Fans and Accessories

The right solution for every application



systemair

Reveal the Secret of Fresh Air!



Since 1974, Systemair has been taking care of a vital resource. Today, the company is one of the global leaders in the field of ventilation technology and air conditioning. A success story which started in Skinnskatteberg, Sweden which has revolutionised the world of ventilation with the invention of the in-line centrifugal fan.

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Since then, the company has continued to grow, and today it offers a complete range of standard-setting ventilation technologies. Whether it is the ventilation concept for a shopping mall, the controlled residential ventilation of a single-family home or the ventilation of tunnels and metro stations – Systemair experts are familiar with the conditions and have the necessary know-how. More than 4700 employees in more than 63 subsidiaries in over 47 countries ensure the necessary proximity to the customer. We invite you to join us in discovering the world of ventilation technology in this catalogue.

Systemair Worldwide



Systemair production facilities worldwide:

Skinnskatteberg, Sweden:
Head office of the Systemair group, distribution center and largest production facility with one of Europe's most advanced R&D-centers. Production of fans and accessories, compact air handling units, air curtains and heating products.

Windischbuch, Germany:
Production facility for fans and modular air handling units, specialized on engineered products (e.g. tunnel and jet fans). Distribution center.

Mülheim an der Ruhr, Germany:
Menerga, is a leading European producer of air handling units for swimming pool halls and comfort ventilation with extra high efficiency.

Langenfeld, Germany:
Production of air curtains.

Hässleholm, Sweden:
VEAB manufactures heating products for ventilation systems, mobile and stationary fan heaters and dehumidifiers.

Ukmerge, Lithuania:
Modern production facility for air handling units with focus on energy recovery.

Maribor, Slovenia:
Production of high temperature fans and air handling units.

Aarhus, Denmark:
Production of modular air handling units.

Dal, Eidsvoll, Norway:
Production of air handling units for the Norwegian market.

Bratislava, Slovakia:
Production and modern R+D center for air distribution products and fire and smoke dampers.

Quality:

Systemair is certified in accordance with ISO 9001; ISO 14001 and ATEX. Our research and development laboratories are one of the most modern in Europe; measurements are made in accordance with international standards like AMCA and ISO.

Save energy, lower running cost!

Our label "Green Ventilation" features products with a high energy saving potential. All products labelled with "Green Ventilation" combine energy economy with energy efficiency.



Madrid, Spain:
Production of air handling units and box fans.

Milan, Italy:
Production of chillers and heat pumps.

Waalwijk, Netherlands:
Production of air handling units, also for marine applications.

Tillières-sur-Avre, France:
Production of air conditioning products.

Istanbul, Turkey:
Systemair-HSK is Turkey's leading manufacturer of air handling units.

Bouctouche, Canada:
Production of fans and air handling units for the North American market.

Tillsonburg, Canada:
In Tillsonburg we develop, engineer, service and manufacture school classroom ventilation equipment for the American market.

Kansas City, USA:
Production of fans for the US market.

Sao Paulo, Brazil:
Production of air handling units.

Kuala Lumpur, Malaysia:
Production of fans for the Asian market.

Hyderabad, India:
Production if air distribution products.

New Delhi, India:
The factories in New Delhi and Noida manufacture grilles and diffusers.

Wujiang, China:
Production of air handling units for the Asian market.

News

prioAir



Lengths ahead

Maximum performance – minimum consumption: no contradiction for the prio**Air** in-line circular duct fan. With its revolutionary, fully aerodynamically optimized impeller, it moves huge amounts of air with a low energy input. What's more, it has compact dimensions, low noise operation and an absolutely airtight casing. In short – the new benchmark for contemporary ventilation systems.

prio**Air EC** ..... p. 60
prio**Air** ..... p. 64

RS EC / RSI EC

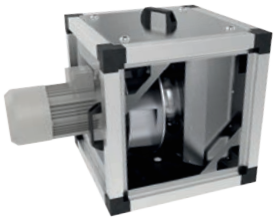


Highly efficient duct fans

The versatile duct fans in our RS and RSI model series are now available with energy-saving, highly efficient EC external rotor motors. Particularly practical: the integrated potentiometer enables the operating point to be set directly on the fan. The impeller can be swivelled outwards for ease of maintenance. Another advantage is the integrated motor protection, which protects the motor from overheating.

RS EC ..... p. 122
RSI EC ..... p. 132

MUB/T-S



New standards in kitchen extract

Streamlined and powerful – the MUB/T-S thermo fan.
The new extract air solution for large kitchens, process extraction and similar applications. Well suited for dirty and hot air up to 120°C. Installers will be delighted by the easy and space-saving installation in the duct system. Maintenance switch, condensation tray and drain plug included as standard!

MUB/T-S EC ..... p. 184
MUB/T-S ..... p. 188

DVN EC / DVNI EC



Highly efficient and robust

The well-proven roof fans in our DVN and DVNI model series are now available with energy-saving EC technology. The robust classic will impress you with its motor outside the airstream and a transported air temperature up to 120°C. This makes it the ideal partner for extraction solutions in harsh environments.

DVN EC ..... p. 242
DVNI EC ..... p. 242

AxZent



Extracting even better!

The AxZent thermo fan is ideally suited for transporting dirty, moist and hot air against high resistances. It is the ideal fan for industrial applications such as process extract air, commercial kitchens and similar application areas.

AxZent EC ..... p. 454
AxZent ..... p. 458

EC-Basic



The simple, energy efficient solution for ventilation demand

The new controller for EC fans makes on demand ventilation child's play. EC-Basic is available in four different versions with a pre-integrated sensor: temperature, moisture, CO_2/ temperature and universal controller.
The result – increased comfort, decreased energy costs!

EC-Basic ..... p. 495

Fans – Overview

Systemair has a wide range of fans for use in various applications from small office premises to larger industrial applications. Common to all items in the range is that components have been developed to satisfy stringent demands for low energy consumption. The fans have all undergone extensive testing, both in the laboratory and out in the field, in order to comply with current and future demands for low energy consumption. All products are also manufactured to comply with environmental requirements.

Circular duct fans up to 8.530 m³/h

p. 34



Our circular duct fans set standards with regard to quality, function and reliability. In combination with our extensive diverse range of accessories, you're sure to find your perfect ventilation package.

Rectangular / square duct fans up to 20.340 m³/h

p. 106



Systemair rectangular and square duct fans are used in industrial, commercial and residential applications – wherever compact solutions for reliable ventilation or air extraction are required. Round off your ventilation system with our comprehensive range of accessories!

Roof fans up to 54.800 m³/h

p. 194



We have a large choice of roof fans, so you can make the ideal selection for your individual application. With our wide range of accessories, you can put together your own customised ventilation system.

Axial fans up to 252.000 m³/h

p. 262



No matter how varied your requirements and applications may be, the comprehensive Systemair axial fan product range will match the challenge. The application areas range from smaller installations to large shopping centres and underground car parks to tunnels and metro projects, throughout the world.

Jet fans

p. 298



As a system supplier of multi-storey and underground car park ventilation systems, Systemair provides you with a one stop shop solution for all the necessary components – ideally tailored to your project: jet fans, supply air and extract air fans, plus the control system. On request, our all-inclusive service package extends from CFD analysis through to commissioning.

Smoke extract fans up to 252.000 m³/h

p. 320



For safety-relevant applications, precisely tailored solutions are required, which make no compromises. Our smoke extraction fans are available as axial and radial fans – for roof, duct and wall installation. They are approved both for use in case of fire as well as for daily ventilation requirements. Certified according to EN 12101-3.

Explosion proof fans up to 44.640 m³/h

p. 372



Explosion proof fans from Systemair fulfil the highest requirements when it comes to ventilating potentially explosive atmospheres. All Systemair "Ex" fans have been inspected according to the ATEX Directive 94/9/EC and meet the protection standard Ex e "Increased safety" or Ex d "Flameproof".

Fans for aggressive media up to 7.610 m³/h

p. 410



These sturdy plastic fans have been developed especially for applications where dirty or aggressive gases can contaminate the exhaust air. Typical applications are laboratories in medical or pharmaceutical institutions and in the food and chemical industry.

Centrifugal fans up to 7.510 m³/h

p. 424



Systemair radial fans are always the first choice when high transported air temperatures and harsh application conditions prevail. They play to their strengths wherever the requirements are somewhat more stringent, for example, extraction of air in kitchens, welding fume extractors, industrial catering ovens and similar applications.

Domestic fans up to 0.19 m³/s

p. 464

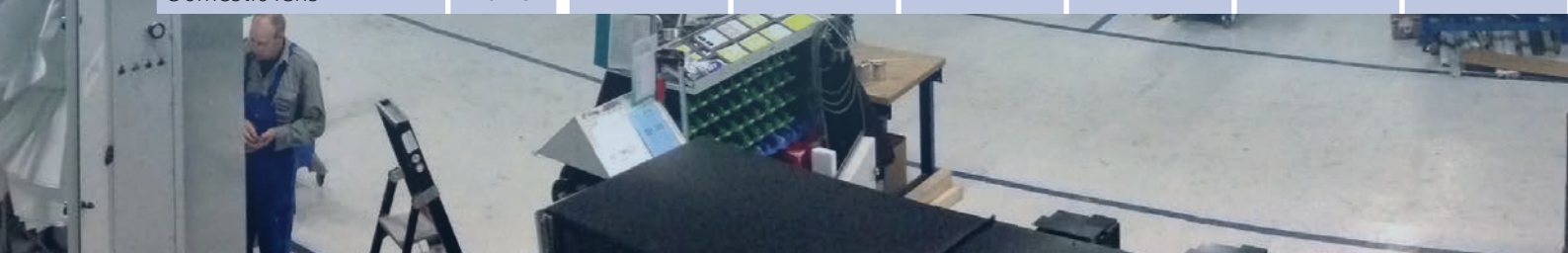


Domestic fans for the ventilation of bathrooms, toilets, storage rooms, for installation on walls, in ceilings, in ducts and in windows.

Overview Applications

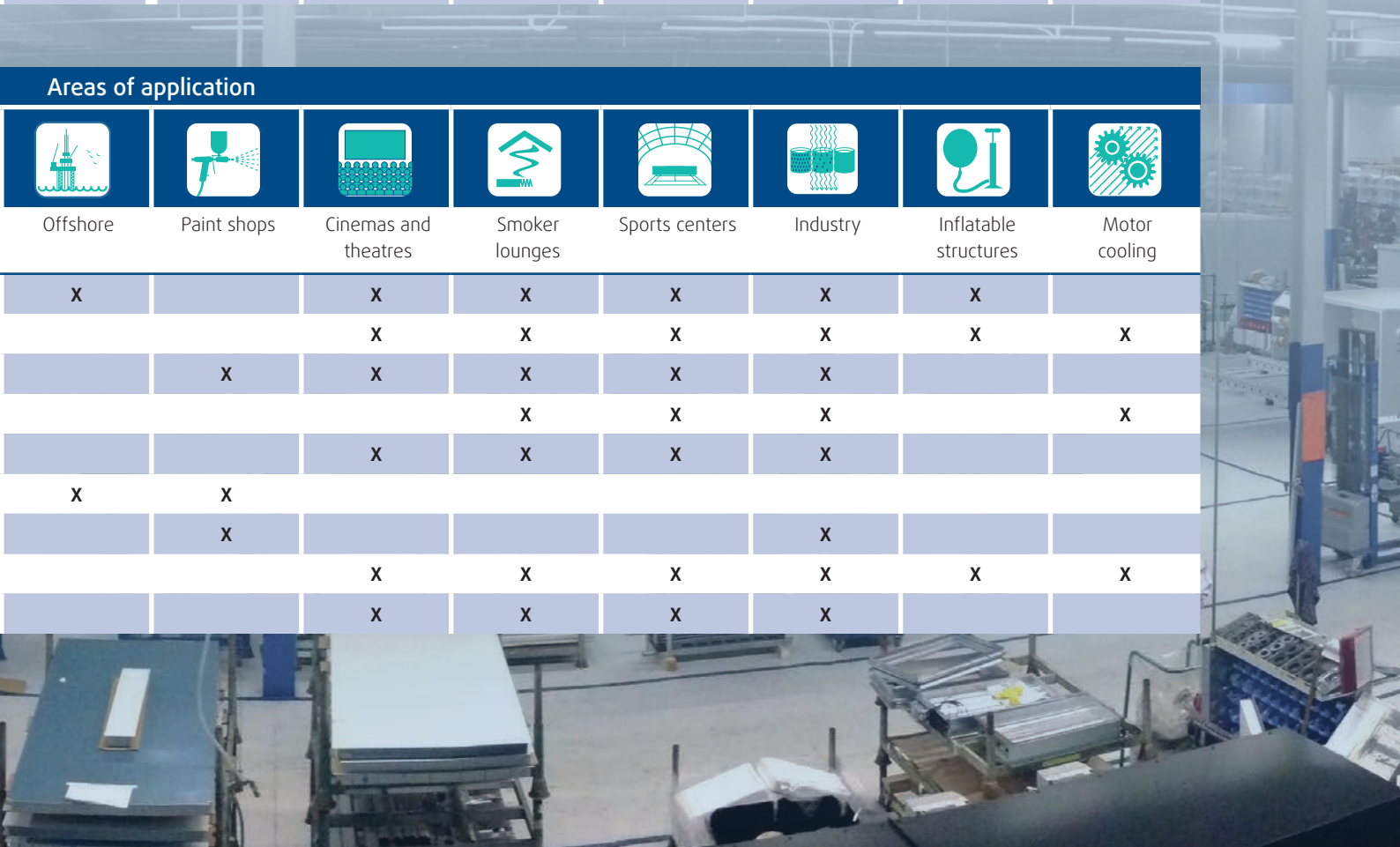
		Product characteristics					
		100°C	120°C	200°C	300°C/120min	400°C/120min	600°C/120min
	Page	Continuous oper. up to 100°C	Continuous oper. up to 120°C	Continuous oper. up to 200°C	EN 12101-3 300°C/120 min	EN 12101-3 400°C/120 min	EN 12101-3 600°C/120 min
Circular duct fans	*36-107*						
Rectangular duct fans	*108-195*	X					
Roof fans	*196-263*	X	X				
Axial fans	*264-299*	X	X	X	X	X	
Smoke extract fans	*322-377*		X	X	X	X	X
Explosion proof fans	*378-415*						
Fans for aggressive media	*416-429*						
Centrifugal fans	*430-469*	X	X	X			
Domestic fans	*470-481*						

	Page	Greenhouses	Agriculture	Wine cellars / basements	Offices	Restaurants and bars	Kitchens / bakeries
Circular duct fans	*36-107*	X		X	X	X	
Rectangular duct fans	*108-195*	X		X	X	X	X
Roof fans	*196-263*	X		X	X	X	X
Axial fans	*264-299*		X			X	
Smoke extract fans	*322-377*				X	X	
Explosion proof fans	*378-415*			X			
Fans for aggressive media	*416-429*	X	X	X			
Centrifugal fans	*430-469*				X	X	X
Domestic fans	*470-481*				X	X	



Areas of application							
Explosion proof	Car Park	Warehouses	Multi storey buildings	Garages	Workshops	Supermarket	Laboratories
	X	X	X	X	X	X	
	X	X	X	X	X	X	
	X	X	X	X	X	X	
	X	X	X	X	X	X	
	X	X	X	X	X	X	
X		X		X	X		X
X					X		X
		X	X	X	X	X	X
			X	X		X	

Areas of application							
Offshore	Paint shops	Cinemas and theatres	Smoker lounges	Sports centers	Industry	Inflatable structures	Motor cooling
X		X	X	X	X	X	
		X	X	X	X	X	X
	X	X	X	X	X		
			X	X	X		X
		X	X	X	X		
X	X						
	X				X		
		X	X	X	X	X	X
		X	X	X	X		



The ErP Directive and what you should know about it!

Questions and answers regarding the Regulations 640/2009 (IEC motors) and 327/2011 (Fans) and the new directive 1253/1254 (Air Handling Units)

With the adoption of the Kyoto protocol, the European Union committed itself to a reduction of at least 20 per cent in CO_2 emissions by 2020. In order to achieve this target, in 2005 the EU ratified the EuP Directive (Energy using Products Directive). In 2009, this was renamed the ErP Directive (Energy related Products Directive). It is often simply referred to as the eco-design directive. In specific terms, this concerns Directive 2009/125/EC. We come across this in everyday life, for example with the phasing out of traditional light bulbs or the energy efficiency labelling on fridges, washing machines and so on.

Who is affected by the Directive?

The Directive is mandatory within the states of the EU. This requirement affects not only manufacturers of ventilation and air conditioning products, but also plant manufacturers and system operators. The ErP Regulation covers products which are produced in the European Economic Area as well as those imported from other countries. Products for export outside the EU are not covered by the Regulation. However it is likely that other countries will concern themselves with the subject as well.

An overview of all the requirements of the Ecodesign Directive.

Confusion often arises because two independent regulations must be fulfilled in parallel.
A simple summary can be found in the following table:

Ecodesign Directive („ErP Directive") 2009/125/EG			
	IEC-motors Regulation 640/2009	**Fans** *Consideration of nozzle + impeller + motor + any control electronics* Regulation 327/2011	**Ventilation systems** *from 01.01.2016* Regulation 1253/2014 (Ventilation units) Regulation 1254/2014 (labeling residential units)
2018			Increased demands for ventilation units at all. Cancellation of the two lowest energy classes F, G on the labels.
2017	**IEC-motors** 0.75 - 375 kW Efficiency class: IE3 or IE2 + FU *		
2016			Minimum requirements for ventilation systems (> 30 W), equipment for residential ventilation with energy labelling
2015	**IEC-motors** 7.5 - 375 kW Efficiency class: IE3 or IE2 + FU *	**Fans** ≥ 125 W Minimum efficiency Stage 2 **	
2013		**Fans** ≥ 125 W Minimum efficiency Stage 1 **	
2011	**IEC-motors** ≥ 0.75 kW Efficiency class: IE2		

* Frequency converter
** Calculated according to a defined formula

Ecodesign / EU Regulation 640/2009 (IEC motors) and 327/2011 (Fans)



EU Regulation 327/2011 for Fans

Thanks to the ErP Directive, the energy-saving potential of numerous energy-related products is being investigated and minimum requirements specified with regard to their energy-efficiency. Eventually, in June 2010, mandatory limit values for fans were specified.
The directive defines a fan to be the unit consisting of nozzle, impeller and motor, as well as any control electronics present (see Fig. 1). The aim is to categorise products brought onto the European market with a general minimum efficiency specification for fans. The first stage of the minimum efficiency specifications for fans became effective on 01.01.2013

More stringent requirements from 01.01.2015

The second stage of Regulation 327/2011 came into effect on 01.01.2015. Then the minimum efficiency requirements will be increased again, compared with the limits from 2013. This means that affected products which do not meet the minimum efficiency requirements can no longer be brought on to the European market from 01.01.2015. That only applies to so called motorized impellers.

Introduction of the Regulation 1253/2014 and 1254/2014

At the 1st of January 2016 the next step of the ErP diretive came into force. It rules ventilation units at all which are intended to to replace utilised air by outdoor air in a building or a part of a building. Included are roof fans, duct fans, residential ventilation units and modular air handling units. These Ventilation units has to fulfil a minimum efficiency and need to have at least a multi speed control which is under the response of the installer. Systemair supports all customers with a wide range of controls.
Excluded from this regulation are still Ventilation units used for security functions (Ex and smoke extract) as well as units for processes like extract of agressive or high temperature mediums.

Definition of “placing on the market“

After the indroduction of the regulations 1253/2014 and 1254/2014 at the 1st of January 2016 it is only allowed to sell ventilation units within the EU which meets their new requirements.
Due to high lead times and inventory levels, fan manufacturers will not be able to get through all their stock by the deadline. The legal definition states that the ventilation units is already on the market once it leaves the factory. Ventilation units which are stocked at the customer before the valuation date are allowed to be installed and set into service afterwards.



Fig. 1

Which fans are affected?

Fans of all types of construction with an electrical input power at 30 W are affected by the Directive. For manufacturers such as Systemair, this means that some models with affected motor-impeller units need to be changed and adapted. Systemair will continue to be able to offer you complete model series of the different variants in the future. Fans which are already equipped with EC motors today already meet the requirements.

Which fans are not affected?

Fans with the purpose of providing protection and which are outside certain temperature ranges are not affected.

This includes:

- Single stage smoke extraction fans, as long as these are not used for daily ventilation on demand
- Explosion-protected fans
- Fans for the extraction of aggressive media
- Fans for transported media temperatures above 100 °C
- Fans for ambient temperatures above 65 °C

During the course of the introduction of the Directives, many manufacturers will also improve these motors without being legally required to do so.

There is also a regulation for motors ("Motor Directive") – what's the difference?

The ErP Implementation Regulation No. 640/2011/EC already came into effect in 2011. This specifies the efficiency of electric motors or, more specifically, IEC standard motors. This regulation refers only to the motor. Since 01.01.2015 only asynchronous motors with an efficiency class of at least IE2 (up to and including 5,5 kW) and from 7,5 kW with efficiency class IE3 may be brought onto the market. The use of IE2 is allowed at Motors above 7,5 kW if they are used with a speed control (e.g. Frequency converter).

The following applies for IEC standard motors:

- From June 16, 2011: Class IE2 for motor powers ≥ 0.75 kW.
- From January 1, 2015: Class IE3 or IE2+FU for motor powers from 7.5 to 375 kW.
- From January 1, 2017: Class IE3 or IE2+FU for motor powers from 0.75 to 375 kW.

Ecodesign EU-directive 1253/2014 for non-residential ventilation and residential ventilation units



Air handling units (AHU) for non-residential ventilation; (NRVU) > 250 [m^3/h]

What does it mean?

For **BVU's**: AHU's used in a balanced ventilation system in a building (fans in supply-air and fans in extract-air) have to be equipped with a heat recovery system (HRS) and to contain filters in supply and extract-air. On top the electrical power consumption of the fans regarding these demands is restricted.

For **UVU's**: AHU's which are part of a hybrid ventilation system (fans combined with natural supply or exhaust), have to meet minimum static fan efficiency, a F7 filter in supply air and a maximum power demand of the fan related to the 'supply-filter'.

Exceptions

This Regulation shall not apply to ventilation units which:

- When electric power input is less than 30 W (per air stream)
- Axial or centrifugal fans, which are only equipped with a housing
- Explosion-protected fans
- Single stage smoke extraction fans, as long as these are not used for daily ventilation on demand
- Fans for transported media temperatures above 100 °C
- Fans for ambient temperatures above 65 °C
- Temperature of air stream or motor-surrounding under -40 °C
- Supply voltage exceeds 1,000 V AC or 1,500 V DC
- Fans for the extraction of aggressive media
- AHU includes a heat exchanger and a heat pump for heat recovery
- When applied for kitchen range hoods

Specific ecodesign requirements for non residential ventilation units from 01.01.2016 (intensification 2018)

- All fans suitable for multi-speed-drive (min. 3 steps plus 0) or variable-speed-drive. Controller can be external.
- All bidirectional ventilation units (BVU) have to be equipped with a heat-recovery-system (HRS).
- All HRS shall have a thermal bypass facility (as bypass or control-function).
- Minimum thermal efficiency HRS:
  - » run-around = 63 % (2018 = 68 %)
    for higher efficiency bonus for higher efficiency calculation formula:
    E = (ŋt_NWLA - 0.63) * 3000
  - » all other recovery systems = 67 % (2018 = 73 %).
    bonus for higher efficiency; calculation formula:
    E = (ŋt_nwla - 0.67) * 3000
- Minimum fan efficiency for UVU (η_{VU}) amounts
  - » 6.2 % * ln(P) + 35.0 %, when P ≤ 30 kW and
  - » 56.1 %, when P > 30kW.
- Maximum internal specific fan power of ventilation components (SVL_{int_limit}) in W/(m^3/s) for a BVU with run-around HRS:
  1700 + E – 300 * q_{nom}/2 – F, when q_{nom} < 2 m^3/s and 1400 + E – F, when q_{nom} ≥ 2 m^3/s;
  - » for a BVU with other HRS:
    1200 + E – 300 * q_{nom}/2 – F, when q_{nom} < 2 m^3/s and 900 + E – F, when q_{nom} ≥ 2 m^3/s;
  - » 250 for an UVU intended to be used with a filter.
- Systemair provides the relevant data according Erp by selection of the unit.

Important terms and abbreviations:

Air handling units (AHU)
consisting at least of impeller, motor und casing

Residential ventilation unit (RVU)
at air-flows up to 250 resp. 1,000 m^3/h

Non-residential ventilation unit (NRVU)
at air-flows above 1,000 resp. 250 m^3/h.
-> At air-flows between 250 and 1,000m^3/h the manufacturer has to declare, if it is a RVU or a NRVU.

Heat recovery system (HRS)
as part of a bidirectional ventilation unit

Unidirectional ventilation unit (UVU)
Ventilation unit with only one air-flow (supply or exhaust). Balanced by natural air supply or exhaust (over- or under pressure).

Bidirectional ventilation unit
ventilation unit with supply and exhaust air flow (with both supply and exhaust fans).

Multi-speed-drive (multi-stage operation)
min. 3 steps or more plus zero (off)

Speed controllable
stepless via integrated or external control unit

Residential ventilation unit EU 1253/2014 and 1254/2014 (B2C, Label)

- Minimum requirements from January 1, 2016: The units must save at least as much primary energy (electricity and heat) as they use (electricity)
- Minimum requirements from January 1, 2018: The units must save significantly more primary energy than they use – the ventilation heat requirement of the residential building will be approximately halved
- Energy efficiency label from A+ to G (see Fig. 2)

The energy label should permit the end user to compare products easily, enabling them to select energy-efficient products. In contrast to other electrical equipment, the energy classes on the labels of residential ventilation equipment are determined by a calculated parameter, the specific energy consumption, or SEC. This value should display the energy-saving potential of the equipment used in kilowatt hours per m^2 per year.

SEV-class	SEV in kWh/a.m^2
A+ (highest efficency)	SEV < -42
A	-42 ≤ SEV -34
B	-34 ≤ SEV -26
C	-26 ≤ SEV -23
D	-23 ≤ SEV -20
E	-20 ≤ SEV -10
F	-10 ≤ SEV -0
G (lowest efficency)	0 ≤ SEV

SEC value and energy class assignment.

Central residential ventilation unit with heat recovery

As shown in Figure 2, this is not only influenced by known parameters such as electrical power consumption or heat recovery, but, to a great degree, by the mode of operation as well.

So a Unit X may well achieve a better energy class when operated according to demand (e.g. moisture and CO_2 sensors influence the air quantity), than in a time-controlled or manually-controlled version.

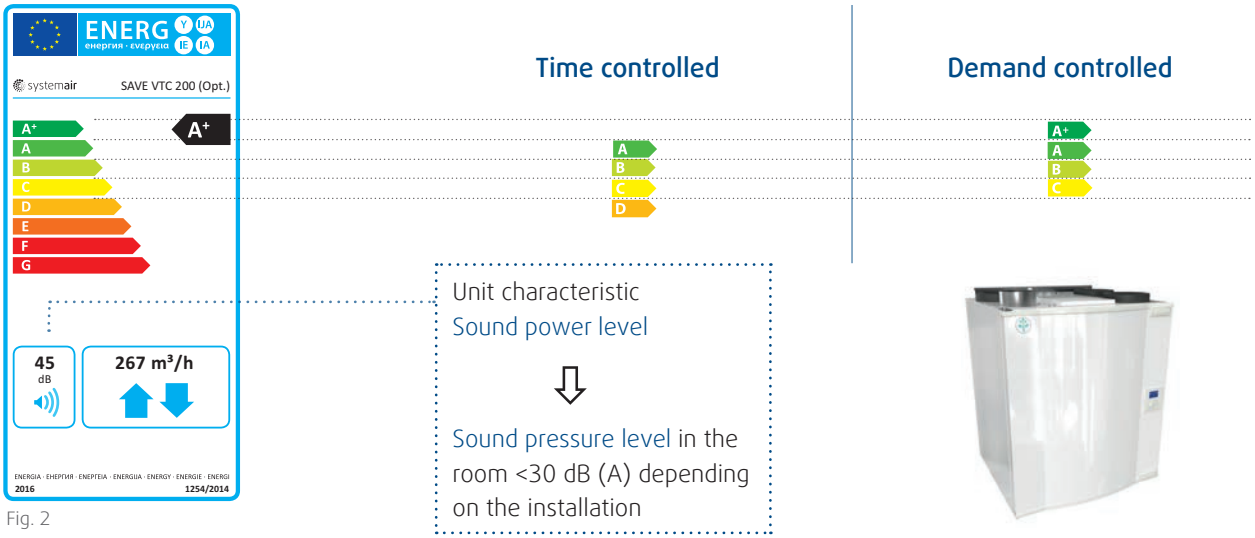


Fig. 2

Glossary

Ecodesign

„Ecodesign" means the incorporation of environmental requirements into product design, with the aim of improving the environmental acceptability of the product throughout its entire life cycle (Directive 2009/125/EC).

ErP

ErP stands for „Energy-related Product" which refers to an object whose use influences the consumption of energy in some way and which is brought onto the market and/or put into service" (Directive 2009/125/EC).

IE

IE stands for International Efficiency.

Directive

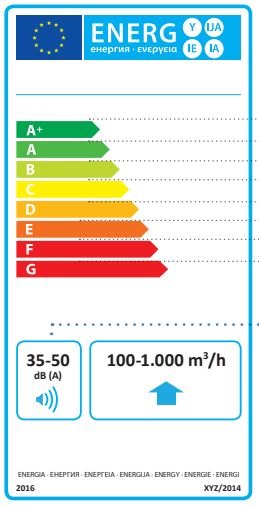
Within the EU, a Directive is a legal act which must be implemented by the member states in national law. How they implement the directives is left up to the individual member states.

Regulation

Within the EU, a Regulation is a legal act which, in contrast to an EU Directive, is valid directly in all member states. This means that the Regulation (EU) No. 327/2011 of the Commission from March 30, 2011 for the implementation of the Directive 2009/125/EC of the European Parliament and of the Council, specifies minimum efficiency requirements for fans driven by motors with an electrical input power of between 125 W and 500 kW.

Central extract air fan without heat recovery

Exhaust systems without heat recovery score worse than units with heat recovery, since the exhaust heat is lost. For exhaust systems, the mode of operation also has a large influence on the energy class.



Time controlled

E
F

Unit characteristic
Sound power level

⇩

Sound pressure level in the room <30 dB (A) depending on the installation

Demand controlled

B
C
D
E



Energy efficient and environmentally friendly: Systemair EC fans

The challenge - energy-saving

Everyone's talking about climate protection, and calling for immediate action.
But what needs to be done? The challenge has to be faced by individuals as well as by organisations. If companies are to take their corporate social responsibility seriously, and consumers are to adopt LOHAS (Lifestyle of Health and Sustainability), the focus will most definitely be on sustainable materials and efficiency. Avoiding the use of energy is one thing, but the true answer in this context is to use it more efficiently. Then it will be possible to maintain the function, comfort and convenience that are part of a modern lifestyle.

Systemair, the ventilation company, offers you the opportunity to play an active part in this process. It has developed a simple, effective answer that creates a win-win situation; in other words you, your customer and the environment all benefit.

40%

Builings account for 40% of the EU`s primary energy use

20%

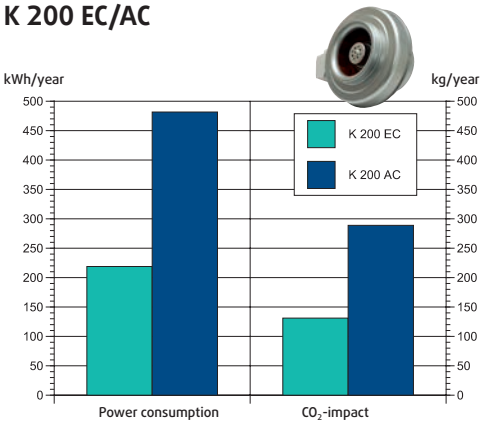
EU directive to reduce energy use by 20% by 2020

The top 10 advantages at a glance:

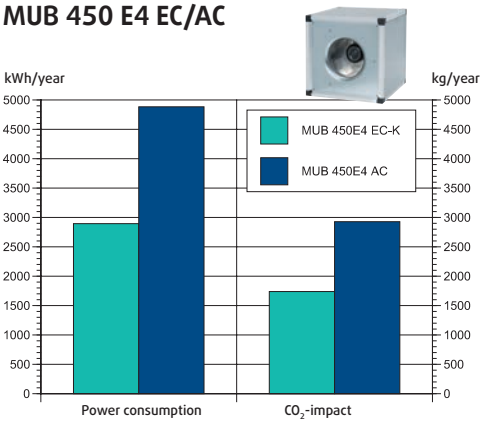
1. Up to 90% higher efficiency than conventional systems
2. Higher efficiency throughout the entire fan perfomance range
3. Less energy use, resulting in lower energy costs
4. Less energy use means lower CO_2 emissions; lower emissions means lower global warming
5. Easy to control by 0-10 V signal
6. Long service life
7. Low sound level throughout the entire fan perfomance range
8. All control and protection electronics are integrated in the motor
9. Easy electrical connection
10. Ventilation on demand - easy to adjust ventilation rate to actual need

Comparison with conventional technology

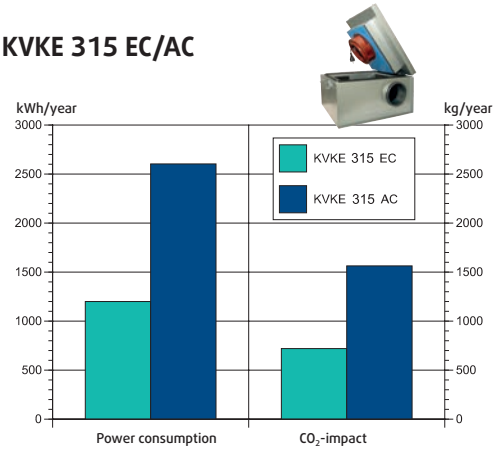
K 200 EC/AC



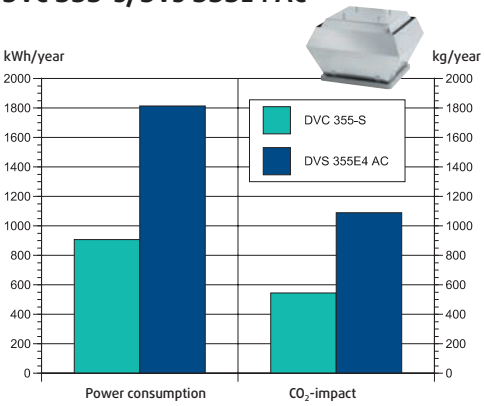
MUB 450 E4 EC/AC



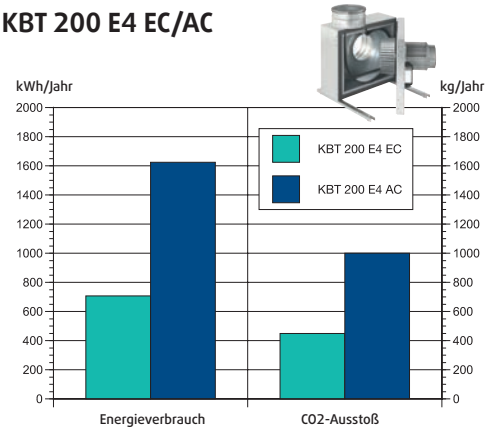
KVKE 315 EC/AC



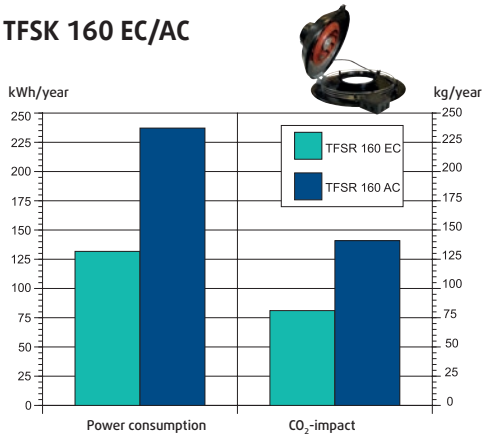
DVC 355-S/DVS 355E4 AC



KBT 200 E4 EC/AC



TFSK 160 EC/AC



Power consumption per year is based on an installation running continuously. The CO_2 impact based on as an average of the CO_2 emission to produce continuously electricity for the European countries.

Source: Umwelt-Bundes-Amt Germany. Factor 0.6 kg CO_2/kWh

We offer you the widest range of ventilation products with EC motor technology:

K EC p. 38



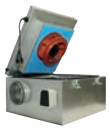
Circular duct fans
Air volume up to 1,730 m³/h

KVO EC p. 68



Insulated circular duct fans
Air volume up to 1,900 m³/h

KVKE EC p. 98



Insulated circular duct fans
Air volume up to 1,870 m³/h

RSI EC p. 132



Insulated rectangular duct fans
Air volume up to 11,780 m³/h

MUB/T EC p. 174



Square duct fans
Air volume up to 12,089 m³/h

DVC / DVCI p. 214



Roof fans,
Insulated Roof fans
Air volume up to 13,072 m³/h

AW sileo EC p. 266



Axial fans
Air volume up to **35,000 m³/h**

KBT/KBR EC p. 428



Thermo fans
Air volume up to 3,310 m³/h

prioAir p. 60



Circular duct fans
Air volume up to 2,100 m³/h

KD EC p. 76



Circular duct fans
Air volume up to 9,980 m³/h

RS EC p. 122



Rectangular duct fans
Air volume up to 11,780 m³/h

MUB EC 154



Square duct fans
Air volume up to13,050 m³/h

TFSR/TFSK EC p. 198



Roof fans
Air volume up to 720 m³/h

DVN / DVNI EC p. 242



Roof fans,
Insulated Roof fans
Air volume up to 14,900 m³/h
Incl. outdoor temperature compensation

DVG EC p. 336



Smoke extract roof fans
Air volume up to 25,120 m³/h

AxZent EC p. 454

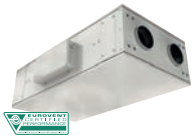


Thermo fans
Air volume up to 3,100 m³/h

Residential ventilation

for single-family houses, flats and small commercial units

SAVE VSR 150/B



For an area up to 100 m², rotary heat exchanger

SAVE VSR 300/500



For an area up to 400 m², rotary heat exchanger

SAVE VTR 150/200/300/500



For an area up to 400 m², rotary heat exchanger

SAVE VTC 200/300



For an area up to 300 m², counter-flow heat exchanger

VR 400 and 700 DCV/DE



For an area up to 350 m², rotary heat exchanger

More information available in our residential ventilation catalogue or in the online catalogue on www.systemair.com.

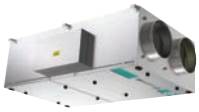
Air handling units

SAVE VTC 700



For an area up to 600 m², counter-flow heat exchanger

Topvex FR



Low overall height, double rotary heat exchanger

Topvex TR / TX



Top connections rotary- or cross-flow heat exchanger

Topvex SR / SX / SC



Side connections rotary-, cross-flow- or counter-flow heat exchanger

DVCompact / TIME



Modular air handling units

More information available in our air handling units catalogue or in the online catalogue on www.systemair.com.

Our controllers for your ventilation system

Energy efficient ventilation is about designing a system in a smart way, using a fan that has a high efficiency and adjusting the ventilation rate to the actual need, instead of always operating at full capacity, while maintaining good indoor air quality.

Today Systemair has the widest range of EC fans on the ventilation market, and offers two different control systems which will make it easy for the consultant, contractor and end user to design, install and run a demand controlled ventilation system (DCV).



Choose your option

The EC-Basic range is available in 4 control options:

EC-Basic-**T**

Temperature controller

EC-Basic-**H**

Humidity controller

EC-Basic-**CO_2/T**

CO_2 and temperature controller

EC-Basic-**U**

Universal controller, 0-10 V

EC-Basic controller

Simple control for energy efficient EC fans



Systemair's new EC-Basic range of controllers has been developed as an economical solution to meet simple control requirements such as temperature, humidity, temperature and CO_2 and universal 0-10 V.

EC-Basic can be used with all EC fans even for existing systems. The controllers are simple and easy to connect, install and set up. EC-Basic is an energy-efficient controller. Only the energy needed to create the right level of comfort is used. The integrated sensor (external sensor for the universal controller) measures the current conditions. The fans automatically slow down when there is less demand.

Your benefits at a glance:

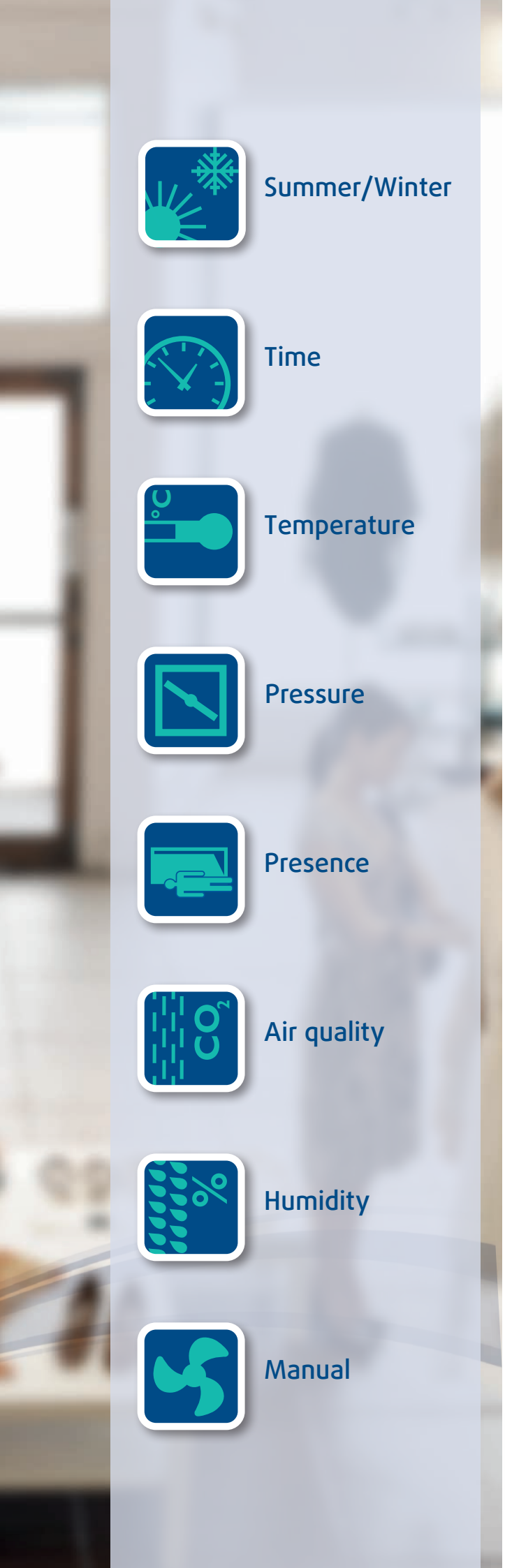
- Energy efficient
- Economical and affordable demand control when using EC fans in a system
- Simple to connect, install and set up
- Can be used with all EC fans
- Meets most fan control requirements
- Solves many common ventilation problems
- CE standard conformity: EN 60730-1, EN 61000-6-3, EN 61000-6-1
- Enclosure class: IP30
- Usable with either 50 Hz or 60 Hz supply

EC-Basic	Art. no.	Voltage/Frequency	Function
EC-Basic-**T**	24805	100-240 V, 50/60 Hz	Temperature controller
EC-Basic-**U**	24806	100-240 V, 50/60 Hz	Universal controller, 0-10 V
EC-Basic-**H**	24807	100-240 V, 50/60 Hz	Humidity controller
EC-Basic-**CO_2/T**	24808	100-240 V, 50/60 Hz	CO_2 and temperature controller



EC-Vent

Intelligent control for energy efficient EC fans



EC-Vent

One controller - many possibilities

Systemair's EC-Vent raises energy efficiency and indoor comfort to new levels. It greatly simplifies demand controlled ventilation. This intelligent controller effectively varies ventilation speed based on input from multiple sensors:

- Humidity
- CO_2 level
- Presence detectors
- Pressure
- Temperatur and
- Timer



Different sensors can be connected to the system, the highest value is controlling the system. EC-Vent is easy to install and reduces operating costs. It also provides lower noise levels and longer service life. The EC-Vent consists of two units, one central unit to be placed near the fan and a single display unit normally sited in a room easily accessible to the user. These units are connected to each other with a low voltage cable.

More detailed information of EC-Vent you can find in our online catalogue at www.systermair.com.

Name	Art. no.	
EC-Vent room unit built-in humidity and temperature sensors	3018	p. 495
EC-Vent control board	3115	p. 495
Room sensor TG-R5/PT1000	5404	p. 496
Outdoor sensor TG-UH/PT1000	35203	p. 496
Duct sensor TG-KH/PT1000	202705	p. 496
Room humidistat/Hygrostat HR1	5150	p. 506
Timer	5165	p. 507
Pressure sensor DSG 200	5169	p. 497
Pressure sensor DSG 500	5170	p. 497
Pressure sensor DSG 1000	9466	p. 497
CO_2 Transmitter (digital) CO2RT-R-D	6993	p. 497
CO_2 Sensor CO2RT	13704	p. 497
Presence detector IR24-P	6995	p. 496

Other Products from Systemair

Perfect climate. Anywhere. Anytime.

With Systemair you can enjoy the advantage of a unique selection of solutions for air conditioning of buildings. This diverse range of solutions enables us to see your project as a whole. We operate with confidence in extremely varied application areas. Whether you need ventilation for an industrial building, a contemporary ventilation concept for an energy-saving apartment block, or ventilation for an underground car park complex – the experts at Systemair know the situation and understand what is important. You can always be sure that all our products are tested, measured and documented down to the last detail. We would be delighted to focus our expert knowledge on your project too.

Ventilation

More information available in our air handling units catalogue or in the online catalogue on www.systemair.com.

Compact air handling units

Air volume up to 14,000 m^3/h





Install – connect – relax! Our compact ventilation units don't just save energy, but time as well. Thanks to plug and play delivery, they are very simple to install. All components such as fans, filters, heat exchangers, heaters and controllers are integrated and ideally attuned to each other.

Central air handling units

Air volume up to 150,000 m^3/h





Our modular ventilation units are as flexible as the ventilation system requirements are individual. They are configured in a modular system according to customer requirements, creating an indoor climate which is ideal for the building's intended use. The modular ventilation units are also available for outdoor installation and with a fully-integrated controller.

Ventilation

Residential ventilation

We put together your ventilation system according to your needs, using high quality SaveVent system components. Highly efficient rotary and counter flow heat exchangers and energy-efficient EC motors, different duct systems, diffusers and, if you wish, a central vacuum cleaner and brine (glycol/water) geothermal heat exchanger ensure a pleasant indoor climate – so that your customers feel like they are breathing fresh air, even at home.



Residential units

For living areas 60-400 m^2.

Air Distribution Products

A diverse assortment of diffusers, valves and volumetric flow controllers for residential and commercial properties complement our product range and your ventilation system!
More information available in our ADP catalogue or in the online catalogue on www.systemair.com.



Air volume control

For constant and variable volume control.



Supply & extract air valves

For mounting in ceilings and walls.



Air diffusers

For mounting in ceilings and walls.



Accessories

Damper, plenum boxes, VAV/CAV

Cooling

Chillers, heat pumps and air conditioners with capacities ranging from 20 to 1,570 kW can be used in numerous applications; from air conditioning systems through to industrial processes. Split and VRF air conditioning systems round off our product range, ensuring comfort and energy-efficiency in all kinds of buildings.

More information available in our Air Conditioning catalogue or in the online catalogue on www.systemair.com.



Air cooled chiller & heat pumps



Water cooled chiller, heat pumps and condensing unit



Free-cooling



Water cassette, cooling and heating



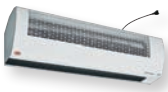
Split, multi and VRF systems

Heating

FRICO

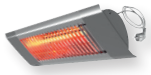
More information available in our online catalogue on www.systemair.com and www.frico.se.

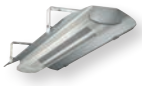




Air curtains

Frico air curtains create an invisible air barrier at open entry points or transit areas. Different temperature zones are completely separated from each other, without hindering access for people or vehicles. Frico air curtains reduce energy losses, create a pleasant climate and keep back cold drafts. They are equally helpful where cold air needs to be prevented from escaping, or to prevent the ingress of dust, exhaust gases or insects.





Radiant heaters

Our radiant heaters help you to heat naturally by imitating the sun – warming people first, then the air. Radiant heater systems can be used for localised and surface heating.





Fan heaters

Fan heaters can be used in highly diverse applications such as storerooms, sports halls, shops, drying rooms, stables etc. They are easy to carry or mount on the wall.



FIND THE RIGHT VENTILATION PRODUCT QUICKLY!

You can use our **product selector** to choose the perfect fans, compact air handling units and diffusers for your application, quickly and with a precise operating point.

You can find an overview of all our products with the necessary technical data in our **online catalogue**. To complete your ventilation package, in the catalogue you will also find our comprehensive range of accessories to complement each product.

You can find this and much more useful and interesting information on **www.systemair.com.**

Take a look for yourself and discover the world of ventilation and air conditioning!



Product Selector

Fans | Axial fans | Box fans | Heat recovery units | Supply and extract units | Electric duct heaters | Water heating batteries | Water cooling batteries | Air distribution products

Selection criteria

View mode: List | Group

Required point

Air Flow	500	m³/h
Static pressure	250	Pa

Selection method

Selection method	System line	
Regulation type	None	
Air flow tolerance	-20	+20 %

Voltage source

Voltage	230	V
Frequency	50	Hz
Phase	1	~

Fan type

Circular duct fans | Rectangular duct fans | Roof fans | Axial fans | Centrifugal fans | Kitchen exhaust fans

Performance demands

Max SFP kW/m³/s

Min efficiency %

Low noise (insulated)

Low energy (EC)

Classification

Max air temperature	°C
Insulation class	
Enclosure class	
Application	Standard

Select | Reset

Selection results

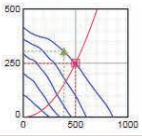
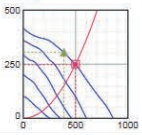
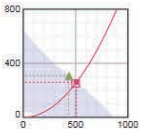
46 products found

Show diagrams

Results on page: 10 | 25 | 50 Page 1 of 5 Go to: First | Previous | 1 2 3 4 5 | Next | Last

Sort by: Best fit

Working point | Acoustic data | Nominal data

Index	Name	Item number	Air Flow [m³/h]	Static pressure [Pa]	Total pressure [Pa]	Power [W]	Current [A]	Speed [r.p.m.]	Efficiency [%]	Voltage [V]	SFP [kW/m³/s]
1	KVK DUO 200 Circular duct fan - 50 Hz 	27792	498	248	260	156	0,68	2614	22	230	1,13
2	KVK 200 Ins. Circ. duct fan - 50 Hz 	27427	498	248	260	156	0,68	2614	22	230	1,13
3	KVO 200 EC Circular duct fan 	11546	509	259	271	122	0,95	2541	30	230	0,87

Add to compared products

systemair
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Tel +46 222 440 00 Fax +46 222 440 99, mailbox@systemair.se

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systemair
F&E Zentrum
R&D Center



High-performance products thanks to quality assurance and research

We make considerable investments in our development and testing equipment, so that the latest state-of-the-art is always guaranteed. This is why our twelve development and test centres are some of the most up-to-date of their kind. This means we know that our data is always correct and our customers are satisfied. We also work closely together with well-renowned testing institutes, universities and recognised, external experts in the field of ventilation and air conditioning.

The AMCA-certified development centre in Skinnskatteberg, Sweden, has one of the most modern testing and inspection facilities in Europe. The "quiet room" is a reverberation room with a background noise level of less than 10 dB(A). When measuring diffusers, green laser light is used to show how the air from the wall or ceiling-mounted diffusers is distributed in the room. Furthermore, the climate chamber (down to -20 °C) is used all year round for the development of heat recovery units.

The research and development centre in Windischbuch, Germany, was opened in September 2013. In our centre of excellence for axial and smoke extraction fans, fan power and noise measurements are carried out at volumes of up to 600,000 m^3/h.

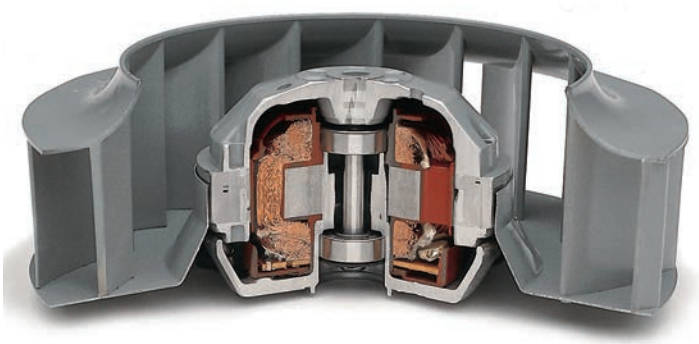
One of the most modern test centres in Europe for the development of chillers and heat pumps is located at our premises in Barlassina, Italy. In the testing facility, the performance and efficiency of all chillers and heat pumps are tested up to 800 kW.

We are frontrunners

As a global player in the ventilation industry, we of course comply with international quality standards such as AMCA and ISO. We are certified according to EN ISO 9001:2000 and EN ISO 14001. Every fan leaving our factory is tested thoroughly. We ensure the high quality of our products with strong partners. We only use motors from well-renowned manufacturers. We select our suppliers carefully so that we are also able to ensure a long-term relationship with them.

General technical information

An external rotor motor is essentially constructed like a normal non-synchronous motor, with one difference: the stator and the rotor have swapped places. The stator with its windings is at the centre of the motor, while the rotor is located in the casing itself. The motor shaft (connected to the rotor) turns on sealed ball bearings inside the stator, and the impeller or fan blades are fitted to the rotor casing. With this design, the motor and fan form a compact unit at the centre of the air stream. Because the external rotor motor's unique construction allows it to be cooled by the transported air, the motor speed can be controlled by voltage regulation.



Motors and impellers

The impeller is ballanced dynamically in two levels in accordance with DIN ISO 1940.

Rating

50/60 Hz
Peformance data is for 50 Hz. For 60 Hz info see online catalogue www.systemair.com.

Rated voltage / Frequency

Maximum permitted voltage variation: +6%, -10% in accordance with DIN IEC 38, plus maximum permitted frequency.

Power rating

Maximum power used by the fan from the mains supply.

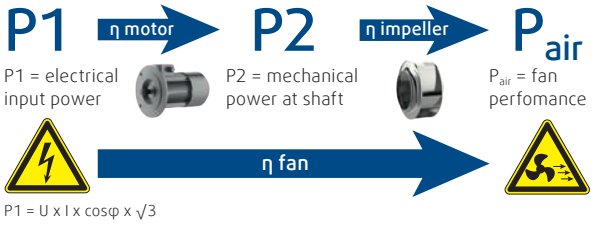
Rated current

Rated current means the maximum current used by the fan from the mains supply at the indicated voltage and frequency.
When the fan speed is controlled by lowering the voltage, the current in the motor may exceed the specified rated current when the voltage is low. (The recommended speed controllers are designed with this in mind.)

Rotation fan, power and efficency

η motor = P2 / P1 x 100%

η impeller = P2 / P1 x 100%



η fan = Pair / P1 x 100%
η fan = η motor x η impeller

Maximum permitted temperature for transported air

The increased current in the motor requires a reduction of the maximum permitted temperature for transported air. In the technical tables, the highest permitted temperature for transported air is shown for both the rated current and for speed control.

Air flow
The max. air flow is shown for free-blowing conditions (at zero back pressure). Air flow is measured in accordance with DIN 24 163 and BSA BS 848. Assumed air density is 1.2 kg/m³ at 20 °C.

Pressure
The static pressure is shown in the fan diagrams as Ps (Pa).

R.p.m.
The tables show the fan's nominal r.p.m. at the rated current.

Capacitor
A capacitor is connected to the single-phase motors. The relevant capacitance is shown in the table for each fan.

Sound pressure – and sound power level

	Duct fan	Roof fan
Room volume	80 m^3	Free field
Room`s equiv. absorption area	20 m^2	-
Distance from fan (r)	3 m	4/10 m
Direction fctor (Q)	1	1
Diffrernence between sound power (L_W) and sound pressure (L_P)	-7 dB	23/-31 dB

Adjusted sound values
In this catalogue, all the sound values for fans (both sound power levels and sound pressure levels) have been adjusted to the ear`s sensitivity with an A filter.

Performance curves
The five curves in the fan diagram show the different voltage outputs from our 5-step transformer.
For EC fans the diagram shows the area where the fan can operate when speed controlled through a 0-10 V signal. Dotted cirves indicate that the fan can not be selected in this area.

Fans are manufactured according precision category 3

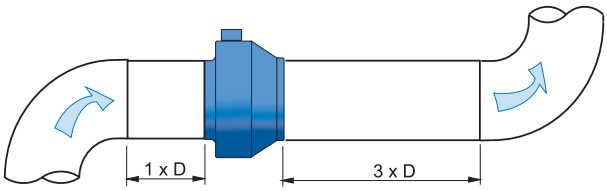
Precision category	0	1	2	3
Volume flow	±1 %	±2,5 %	±5 %	±10 %
Presssure increase	±1 %	±2,5 %	±5 %	±10 %
Motor power	+2 %	+3 %	+8 %	+16 %
Efficiency	-1 %	-2 %	-5 %	-
Sound pressure level (A)	+3 dB	+3 dB	+4 dB	+6 dB

Table 2: Excerpt from DIN 24166 (precision categories)

Explosion-proof fans
The owner of the property and the installation engineer are responsible for ensuring that all equipment that is installed in explosive areas is approved by a recognised testing laboratory and installed correctly. Fans must be installed and protected so that no foreign object can come into contact with the impeller or cause hazardous sparking. Both the motorprotection relay and the transformer must be positioned outside the risk area.

Installation
All fans can be installed in any position, but roof fans should be installed horizontally.
Smaller roof fans can be installed on the roof pitch. To avoid the transfer of vibrations to the duct system, we recommend that fans are installed with suitable mounting clamps or flexible connections. All fans are designed for continuous operation.
Fitting a straight duct onto the inlet and outlet of the fan will help to prevent pressure-drop and system efficiency losses caused by turbulent air flow. The straight section must have no filter or similar, and its length must be at least 1 x the duct diameter on the fan's inlet side and at least 3 x the duct diameter on the fan's outlet side. (See figure 1.)

Figure 1: Correctly installed duct fan.



For a rectangular duct, the duct diameter is calculated as:

$$D = \sqrt{\frac{4 \cdot H \cdot B}{\pi}}$$

D = duct diameter
H = duct height
B = duct width

Circular duct fans



KV 48

Circular duct fan, metal

K EC 38



Circular duct fan, metal, with EC motor

K 42



Circular duct fan, metal

RVK sileo 54



Circular duct fan, plastic

prioAir EC NEW! 60



Circular duct fan, plastic, with EC motor

Quality by tradition

Systemair circular duct fans were developed for use in compact supply air and extract air systems.

With the invention of the inline duct fan in 1974, Systemair revolutionised and simplified the world of ventilation. Since then, the product range has been continuously developed and extended. So today, our inline duct fans set standards with regard to quality, function and reliability. In combination with our extremely diverse range of accessories, you're sure to find your perfect ventilation package at Systemair.

We can also thank the circular duct fans for our company philosophy. "The Straight Way" can be traced back to guiding air straight through a duct fan. Today it stands for our efforts to always offer our customers direct and simple solutions.

prioAir NEW! 64



Circular duct fan, plastic

KD EC 76



Circular duct fan, metal, with mixed flow impeller and EC motor

KVK DUO 94



Circular twin box duct fan, insulated

KVO EC 68



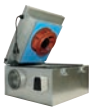
Circular duct fan, insulated, with EC motor

KD 80



Circular duct fan, metal, with mixed flow impeller

KVKE EC 98



Circular duct fan, insulated, with EC motor

KVO 72



Circular duct fan, insulated

KVK 88



Circular duct fan, insulated

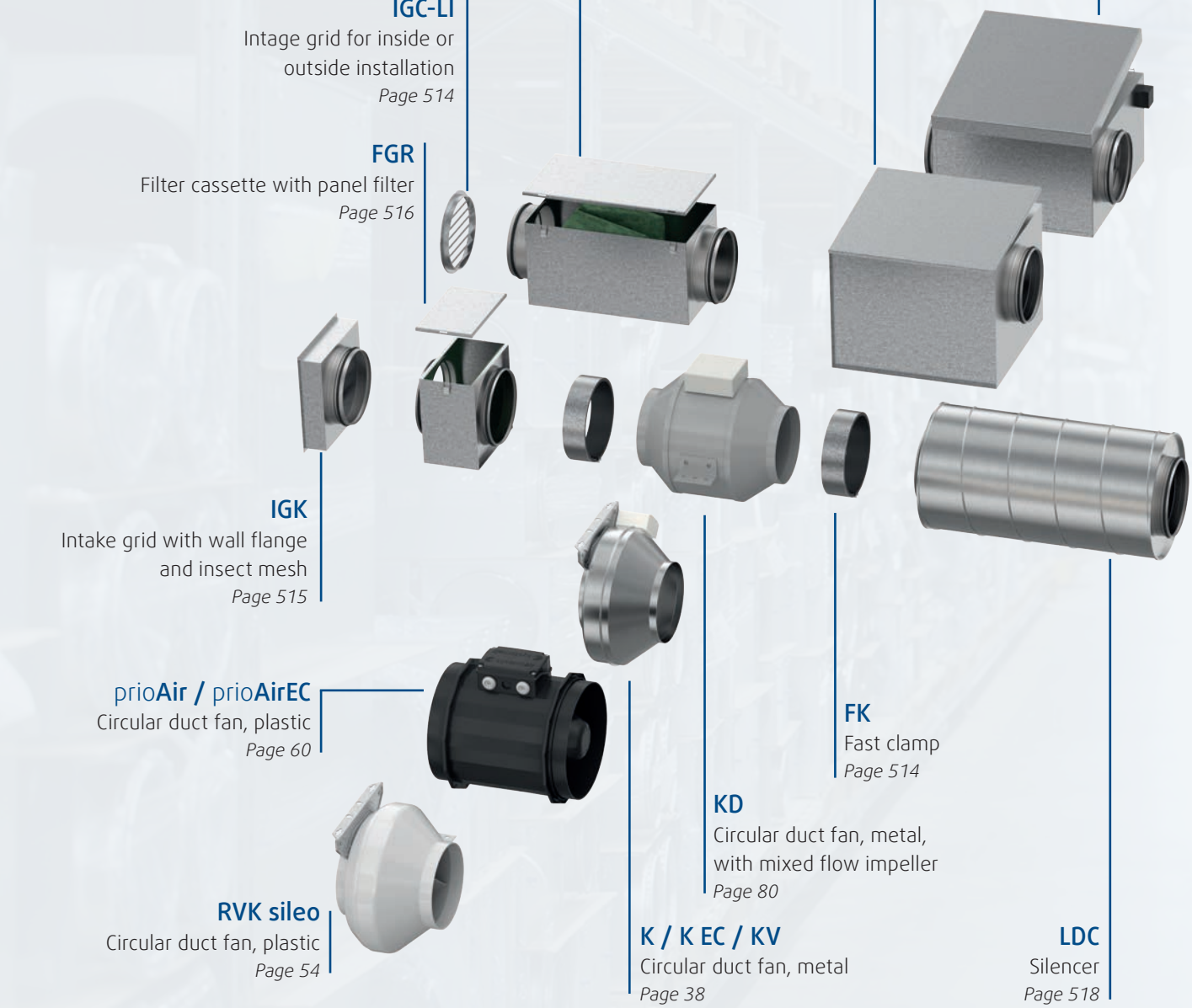
KVKE 102



Circular duct fan, insulated

System solutions for circular duct fans

Custom-fit and perfectly coordinated!



FFR
Filter cassette for bag filter
Page 517

KVK
Circular duct fan, insulated
Page 88

KVKE/KVKE EC
Circular duct fan, insulated
Page 98

IGC-LI
Intage grid for inside or outside installation
Page 514

FGR
Filter cassette with panel filter
Page 516

IGK
Intake grid with wall flange and insect mesh
Page 515

prioAir / prioAirEC
Circular duct fan, plastic
Page 60

RVK sileo
Circular duct fan, plastic
Page 54

FK
Fast clamp
Page 514

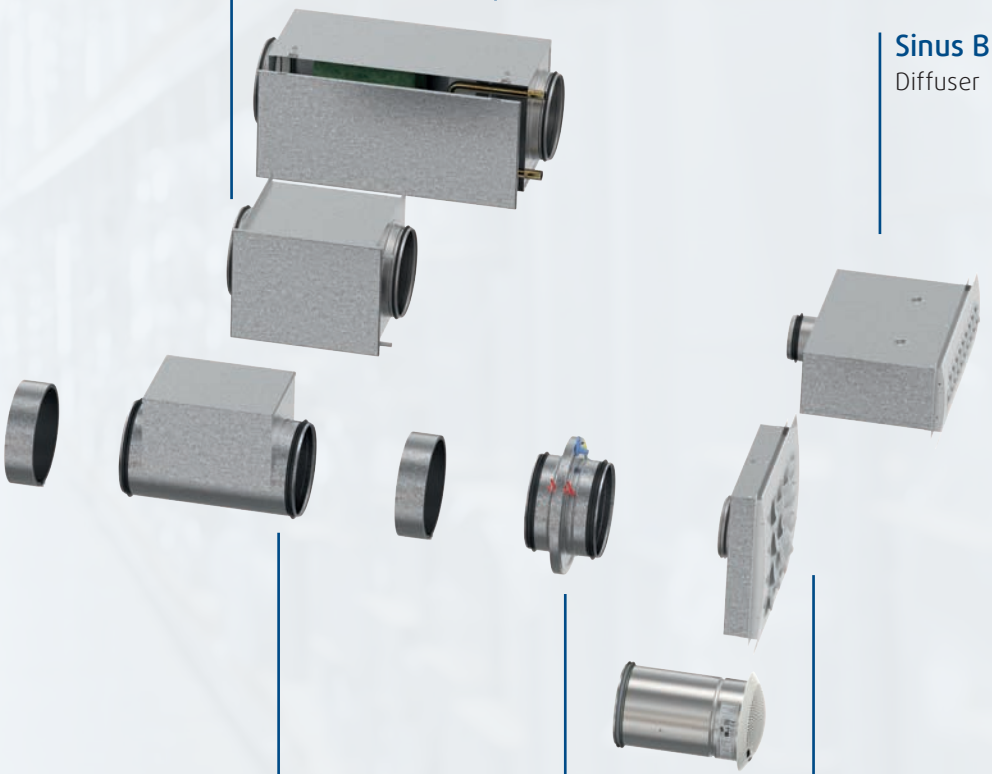
KD
Circular duct fan, metal, with mixed flow impeller
Page 80

K / K EC / KV
Circular duct fan, metal
Page 38

LDC
Silencer
Page 518

VBC
Water heating battery
Page 521

VBF
Water heating battery with bag filter
Page 522



Sinus B
Diffuser

CB/CBM
Electrical heating battery
Page 519

SPI
Iris damper

Elegant
Diffuser

Sinus A
Diffuser

K EC

Circular duct fan



- High efficiency across the entire system characteristic field
- Absolutely airtight, seamed housing
- Suitable for applications outdoors and in wet rooms
- Includes mounting bracket for easy installation
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing

Airtight, seamed casing made from galvanised steel. Leakage rate compliant with tightness class C, according to EN 12237:2003. Duct connections min. 25 mm long.

Motor

Energy-saving, highly efficient EC external rotor motors. Radial impeller with backward curved blades.

Output control

100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to a value between 6 and 10 V (factory setting). This can be easily adjusted should the installation require a different operating point.

Motor protection

Motor protection is integrated in the electronics of the motor.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



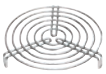
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Controller
Page 488

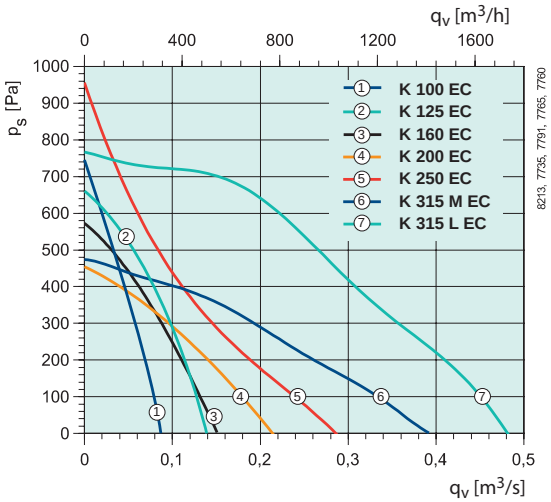


MTV
Controller
Page 488

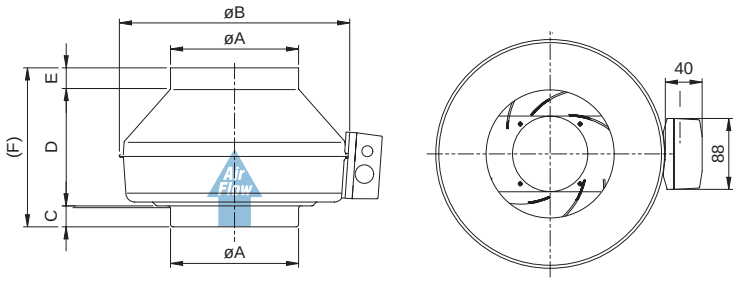


REV
Switching device
Page 510

Quick selection



Dimensions



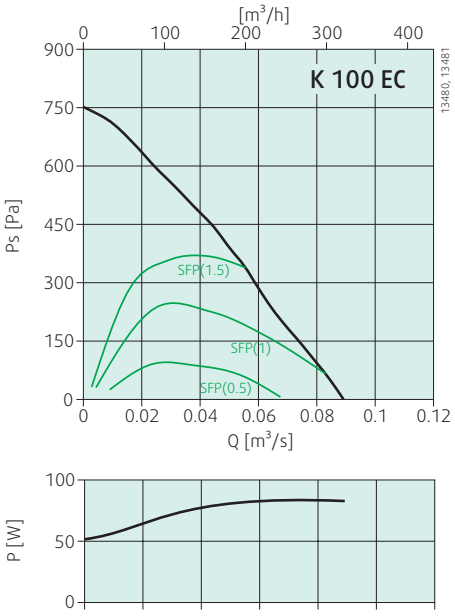
K EC	øA	øB	C	D	E	(F)
K 100 EC	99	246	26	161	26	213
K 125 EC	124	246	26	151	26	203
K 160 EC	159	286	25	147	26	198
K 200 EC	199	336	30	148	27	205
K 250 EC	249	336	30.5	144.5	27	202
K 315M EC	314	408	32.5	160.5	27	220
K 315L EC	314	408	37.5	160.5	27	225

Technical data

K EC		K 100 EC	K 125 EC	K 160 EC	K 200 EC
Art. no.		*16955*	*16956*	*2580*	*2581*
Voltage	V	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1
Input power (P1)	W	82.6	83	79.4	78.6
Current	A	0.69	0.678	0.63	0.626
Max. airflow	m^3/h	321	482	544	774
Fan impeller speed	r.p.m	3479	3308	3107	2472
Max. temperature of transported air	°C	60	60	60	60
* when voltage-controlled	°C	60	60	60	60
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	49.8	45.9	46.6	51.4
Weight	kg	2.9	2.8	3.3	3.3
Insulation class		B	B	B	B
Enclosure class. motor		54	54	44	44
Regulation type		Stepless	Stepless	Stepless	Stepless

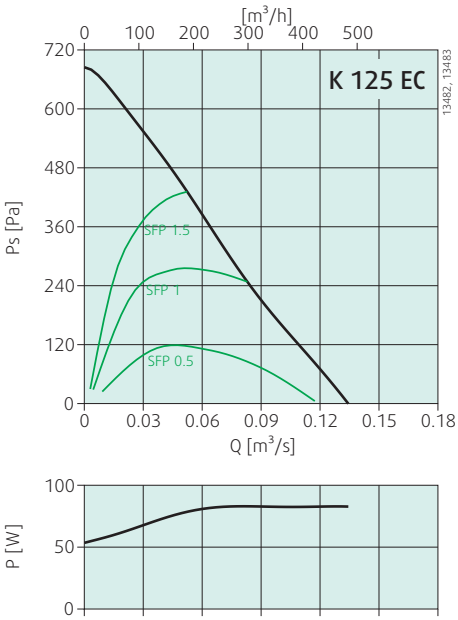
K EC		K 250 EC	K 315M EC	K 315L EC	
Art. no.		*2583*	*2584*	*2585*	
Voltage	V	230	230	230	
Frequency	Hz	50/60	50/60	50/60	
Phase	~	1	1	1	
Input power (P1)	W	120	166	340	
Current	A	0.921	1.14	2.08	
Max. airflow	m^3/h	1033	1415	1732	
Fan impeller speed	r.p.m	2628	2117	2719	
Max. temperature of transported air	°C	40	40	55	
* when voltage-controlled	°C	40	40	55	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	45.6	49.7	57.2	
Weight	kg	3.9	6	7.2	
Insulation class		B	B	B	
Enclosure class. motor		44	44	44	
Regulation type		Stepless	Stepless	Stepless	

Performance



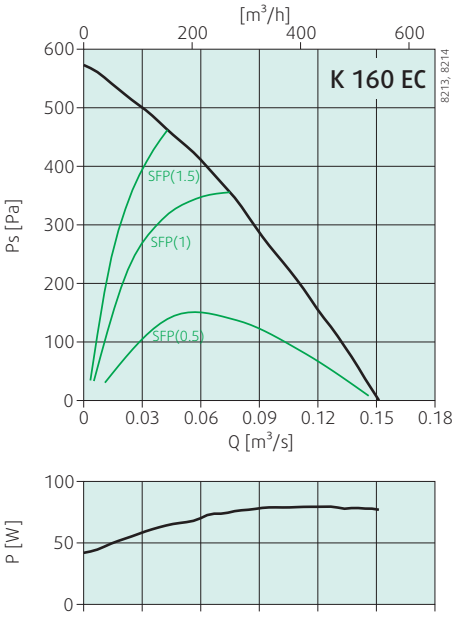
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	54	72	69	75	70	66	59	50
L_{wA} Outlet dB(A)	77	56	72	66	71	70	66	60	50
L_{wA} Surrounding dB(A)	57	12	21	35	53	52	49	46	34

Measurement point: 137 m³/h; 496 Pa



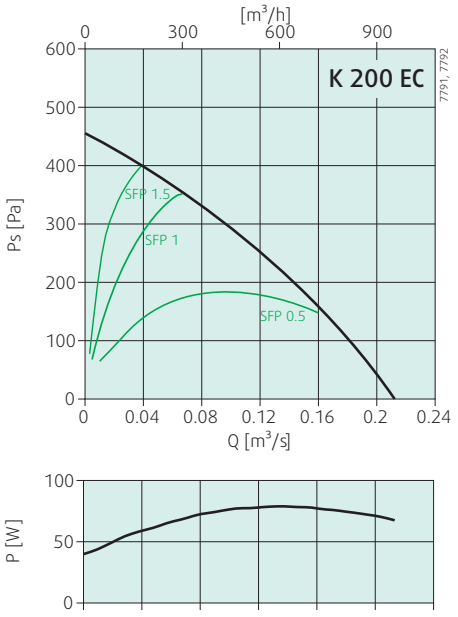
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	52	65	76	73	71	66	61	53
L_{wA} Outlet dB(A)	77	52	65	74	72	68	66	60	52
L_{wA} Surrounding dB(A)	53	16	13	39	48	48	44	44	34

Measurement point: 184 m³/h; 439 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	53	72	73	73	69	66	56	46
L_{wA} Outlet dB(A)	78	59	71	73	72	66	64	57	46
L_{wA} Surrounding dB(A)	54	22	28	39	50	48	47	40	29

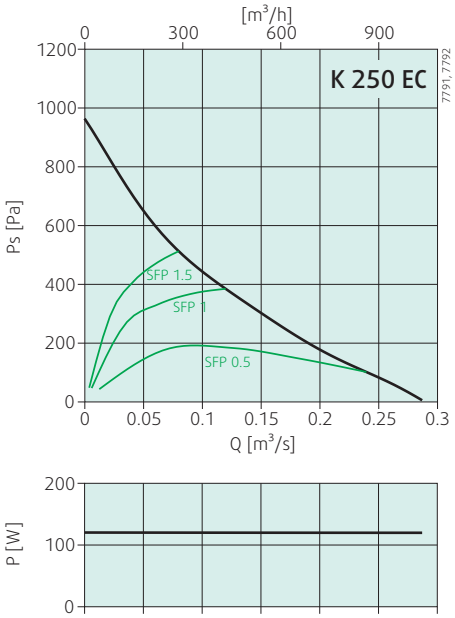
Measurement point: 258 m³/h; 367 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	51	70	68	73	68	63	55	47
L_{wA} Outlet dB(A)	75	49	70	68	70	64	62	57	46
L_{wA} Surrounding dB(A)	58	24	38	45	57	50	45	39	29

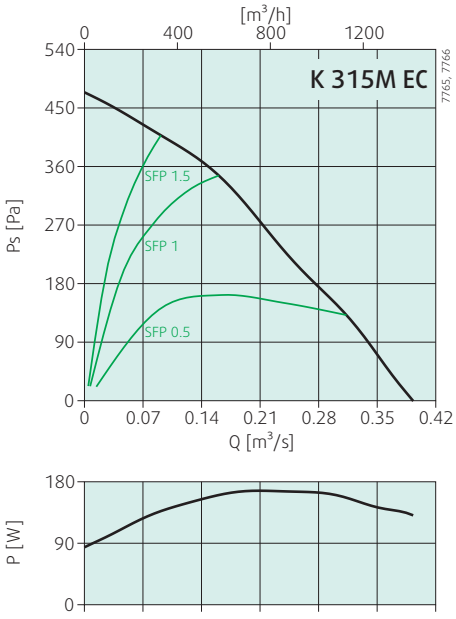
Measurement point: 389 m³/h; 274 Pa

Performance



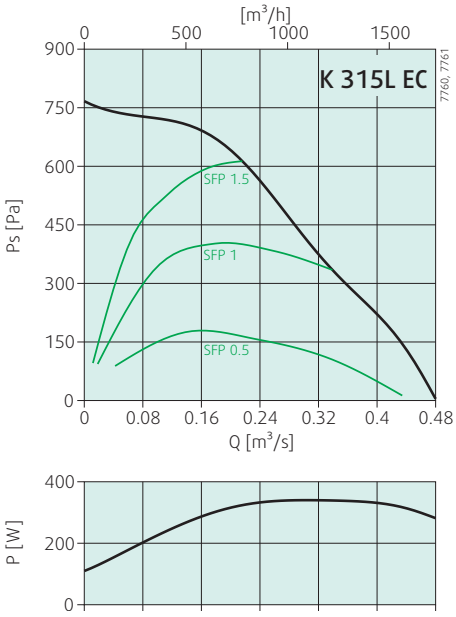
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	52	65	68	68	66	61	53	43
L_{wA} Outlet dB(A)	74	53	63	67	67	67	66	63	60
L_{wA} Surrounding dB(A)	53	16	36	40	50	46	44	34	23

Measurement point: 427 m³/h; 383 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	53	70	67	70	69	65	65	60
L_{wA} Outlet dB(A)	76	54	72	68	66	68	66	62	56
L_{wA} Surrounding dB(A)	57	24	33	48	52	49	50	48	36

Measurement point: 653 m³/h; 319 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	67	74	74	78	75	71	69	67
L_{wA} Outlet dB(A)	82	65	74	75	75	75	75	72	65
L_{wA} Surrounding dB(A)	64	47	45	58	61	54	54	52	44

Measurement point: 817 m³/h; 591 Pa

K

Circular duct fan



- Absolutely airtight, seamed casing
- Suitable for applications outdoors and in wet rooms
- Includes mounting bracket for easy installation
- Speed controllable via voltage
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Airtight, seamed casing made from galvanised steel. Leakage rate compliant with tightness class C, according to EN 12237:2003.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Power control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Integrated thermal contacts with manual reset in accordance with EN60335-2-80 (sizes 100 M and 125 M have integrated thermal protection).

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



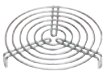
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

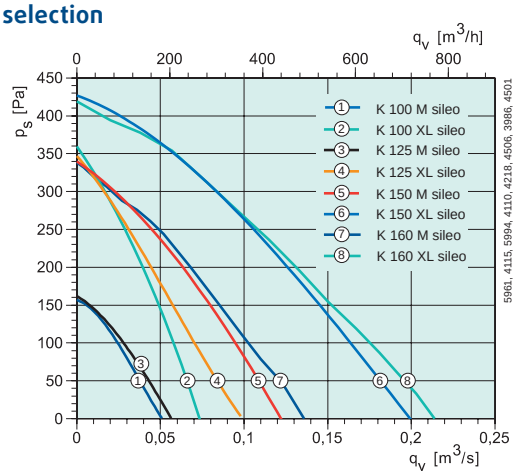


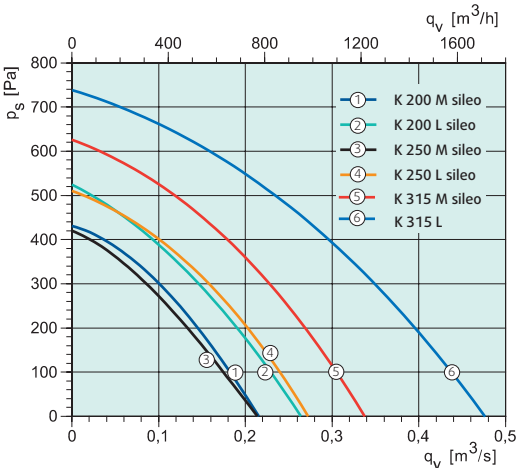
REV
Switching device
Page 510



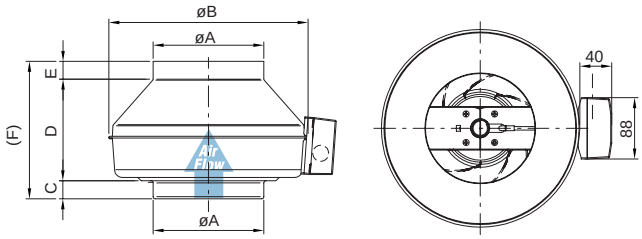
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



K	øA	øB	C	D	E	(F)
100 M sileo	99	218	26	166	26	218
100 XL sileo	99	246	26	161	26	213
125 M sileo	124	218	27	142	27	196
125 XL sileo	124	246	26	151	26	203
150 M sileo	149	286	25	152	25	202
150 XL sileo	149	336	29	171	26	226
160 M sileo	159	286	25	147	26	198
160 XL sileo	159	336	29	166	26	221
200 M sileo	199	336	30	148	27	205
200 L sileo	199	336	30	174	27	231
250 M sileo	249	336	30.5	119.5	27	177
250 L sileo	249	336	30.5	144.5	27	202
315 M sileo	314	408	32.5	160.5	27	220
315 L	314	408	37.5	160.5	27	225

Technical data

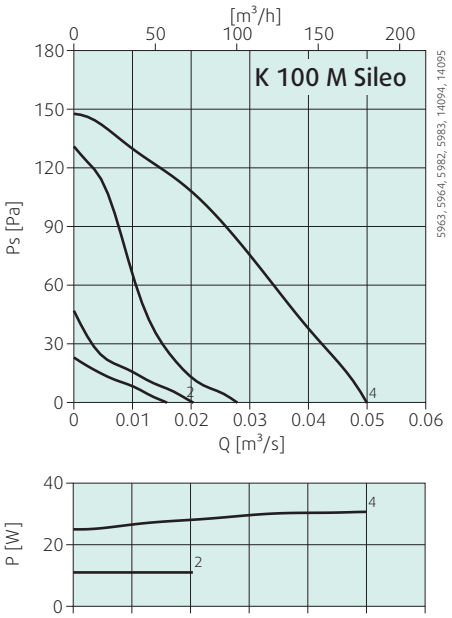
K		K 100 M sileo	K 100 XL sileo	K 125 M sileo	K 125 XL sileo	K 150 M sileo	K 150 XL sileo	K 160 M sileo	K 160 XL sileo
Art. no.		*1001*	*25360*	*1002*	*25361*	*25362*	*25363*	*25364*	*25365*
Voltage	V	230	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1	1	1
Input power (P1)	W	30.7	52.1	28.2	52.7	53.3	100	53	102
Current	A	0.177	0.227	0.164	0.229	0.232	0.443	0.231	0.447
Max. airflow	m^3/h	180	285	187	359	464	724	450	749
Fan impeller speed	r.p.m	2407	2418	2491	2395	2379	2523	2388	2539
Max. temperature of transported air	°C	70	70	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	33.5	45.2	32.8	41.7	37.5	46.4	37.8	46.4
Weight	kg	2.3	3	2.3	2.9	3.3	4.1	3.3	4
Insulation class		B	B	B	B	B	F	B	F
Enclosure class. motor	IP	44	44	44	44	44	44	44	44
Capacitor	µF	–	1.5	–	1.5	1.5	2.5	1.5	2.5
Motor protection (1)		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)	electr.	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1

K		K 200 M sileo	K 200 L sileo	K 250 M sileo	K 250 L sileo	K 315 M sileo	K 315 M (**)	K 315 L (**)
Art. no.		*25366*	*19510*	*25367*	*19512*	*27424*	*19516*	*19514*
Voltage	V	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1	1
Input power (P1)	W	102	145	103	145	231	201	318
Current	A	0.442	0.631	0.449	0.632	1.01	0.882	1.39
Max. airflow	m^3/h	760	965	788	979	340	1238	1728
Fan impeller speed	r.p.m	2529	2555	2535	2562	2783	2520	2318
Max. temperature of transported air	°C	70	70	70	70	70	70	57.4
* when voltage-controlled	°C	70	70	70	70	70	70	52.4
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	42.7	47.8	41.3	43	42.7	46.4	49.7
Weight	kg	4.1	4.8	3.9	4.6	6.6	5.5	6.6
Insulation class		F	F	F	F	F	F	F
Enclosure class. motor	IP	44	44	44	44	44	44	44
Capacitor	µF	2.5	3.5	2.5	3.5	5	5	7
Motor protection (1)		Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)	electr.	REE 1	REE 1	REE 2	REE 2	REE 1	REE 2	REE 2

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

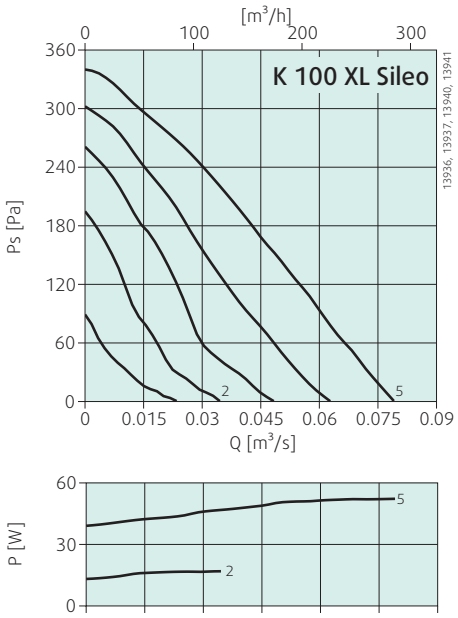
(1) Systemair recommendation. More alternatives can be found on page 478.

Performance



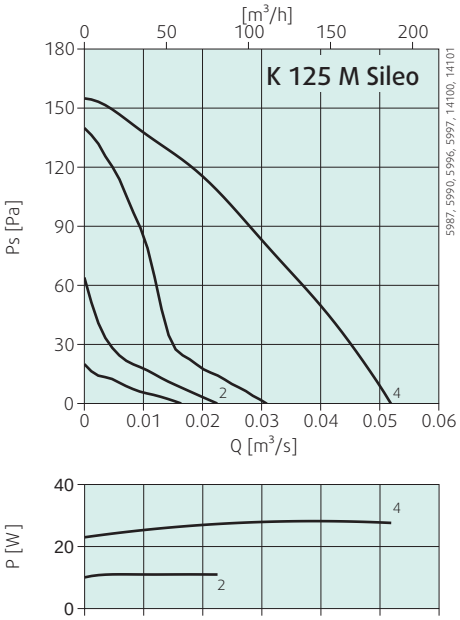
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	64	43	56	59	60	56	50	39	22
L_{wA} Outlet dB(A)	62	49	50	59	56	52	46	36	21
L_{wA} Surrounding dB(A)	43	16	18	25	40	39	33	20	12

Measurement point: 37.5 l/s; 46.9 Pa



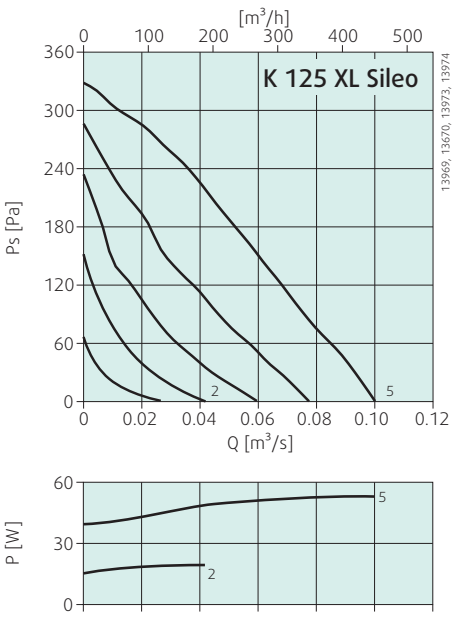
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	54	65	62	65	64	60	52	40
L_{wA} Outlet dB(A)	68	54	64	58	62	61	58	50	37
L_{wA} Surrounding dB(A)	52	29	17	30	49	47	45	39	27

Measurement point: 37.5 l/s; 206.6 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	39	54	56	58	54	50	34	22
L_{wA} Outlet dB(A)	61	38	52	55	57	53	49	37	23
L_{wA} Surrounding dB(A)	41	13	23	28	37	37	34	22	13

Measurement point: 40.8 l/s; 46.7 Pa

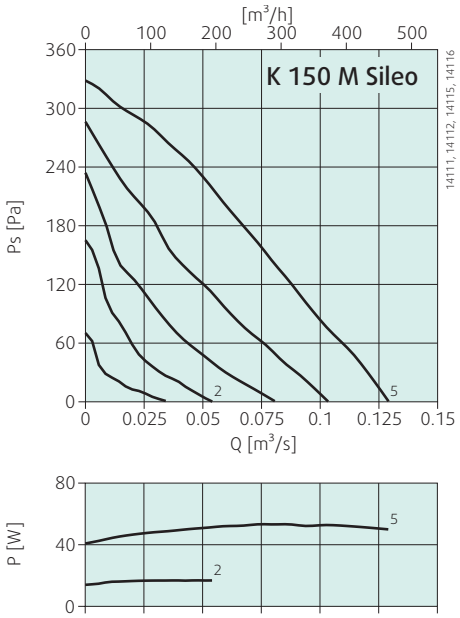


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	47	63	64	65	63	60	53	42
L_{wA} Outlet dB(A)	68	49	62	59	62	61	58	50	40
L_{wA} Surrounding dB(A)	49	19	17	38	45	42	42	36	29

Measurement point: 39.7 l/s; 201.5 Pa

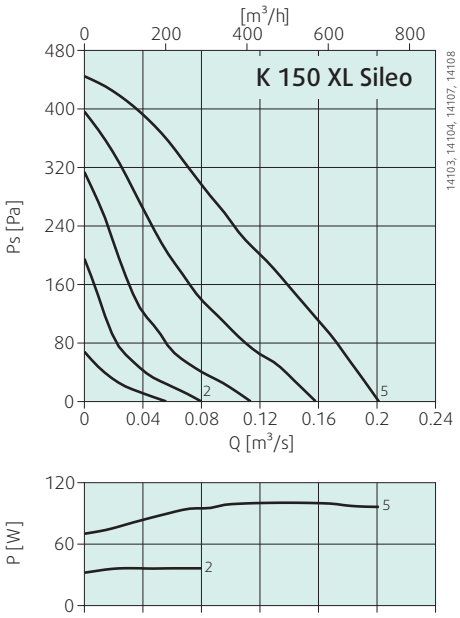


Performance



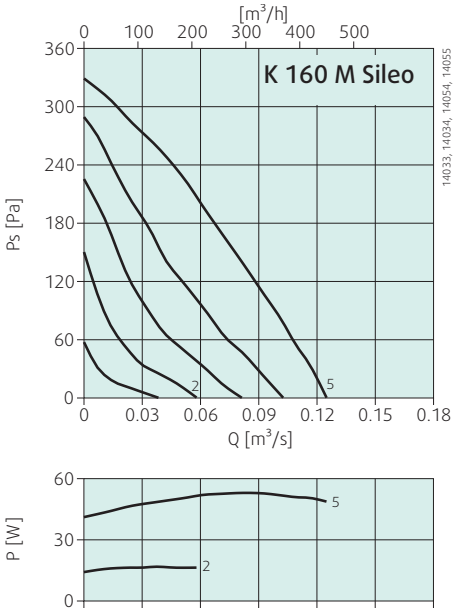
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	46	56	57	57	58	58	55	42
L_{wA} Outlet dB(A)	63	40	53	50	56	57	56	53	40
L_{wA} Surrounding dB(A)	44	19	13	28	38	38	38	38	27

Measurement point: 66.4 l/s; 182.2 Pa



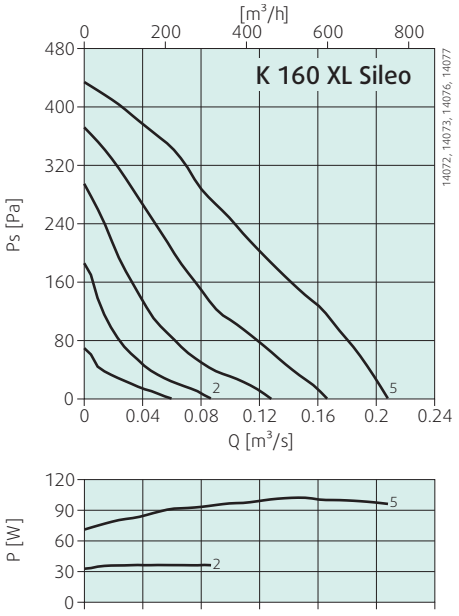
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	50	76	67	71	67	62	59	49
L_{wA} Outlet dB(A)	74	54	71	62	68	64	62	55	48
L_{wA} Surrounding dB(A)	53	15	33	37	50	46	47	44	30

Measurement point: 86.4 l/s; 280.4 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	41	61	59	58	59	58	52	41
L_{wA} Outlet dB(A)	65	44	60	54	59	58	57	51	40
L_{wA} Surrounding dB(A)	45	17	21	32	39	38	40	34	25

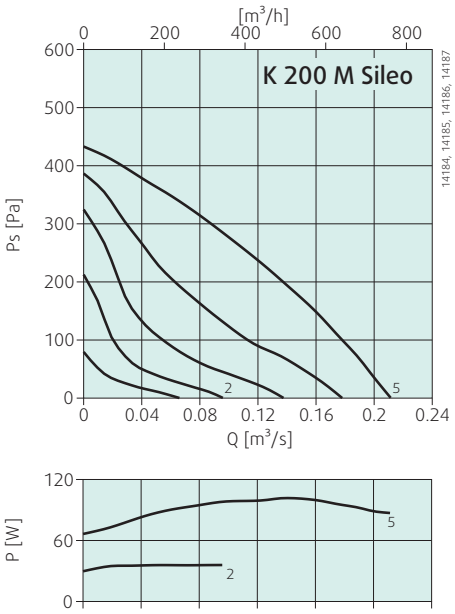
Measurement point: 52.5 l/s; 223.4 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	47	74	66	72	69	64	59	49
L_{wA} Outlet dB(A)	77	53	76	61	70	65	62	55	46
L_{wA} Surrounding dB(A)	53	10	32	36	50	47	46	42	28

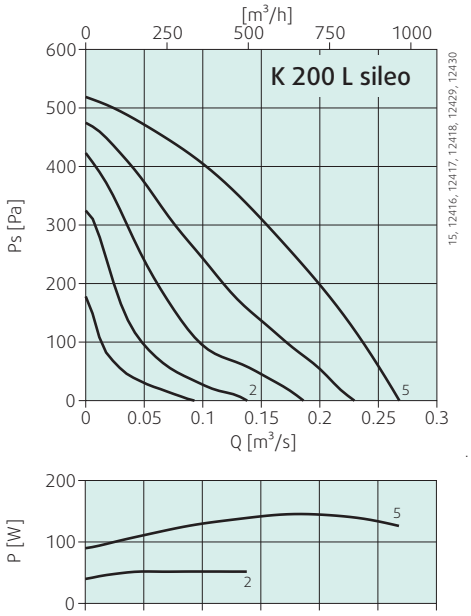
Measurement point: 100.6 l/s; 245.8 Pa

Performance



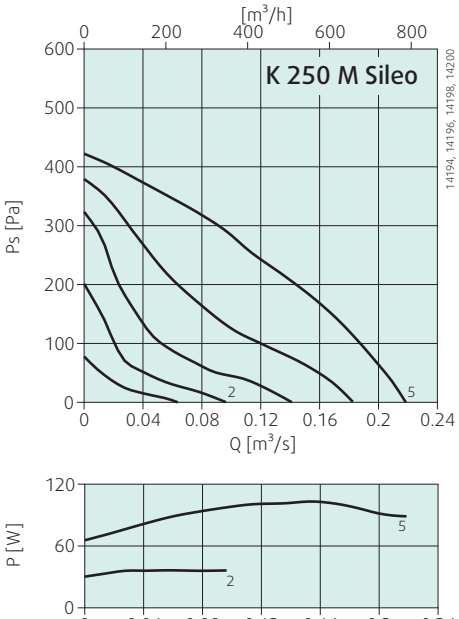
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	62	62	64	63	62	57	50
L_{wA} Outlet dB(A)	70	45	57	63	64	63	63	57	49
L_{wA} Surrounding dB(A)	50	14	23	37	46	43	43	38	29

Measurement point: 123.1 l/s; 230.9 Pa



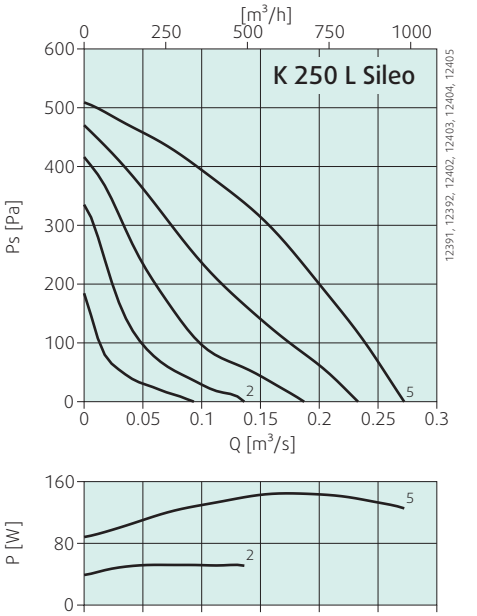
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	42	61	64	63	64	63	56	54
L_{wA} Outlet dB(A)	70	49	59	62	65	64	64	58	53
L_{wA} Surrounding dB(A)	51	6	24	32	42	47	46	40	36

Measurement point: 155 l/s; 299.7 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	37	58	64	61	61	59	54	50
L_{wA} Outlet dB(A)	69	41	62	64	61	62	60	53	47
L_{wA} Surrounding dB(A)	48	9	29	41	43	43	38	36	32

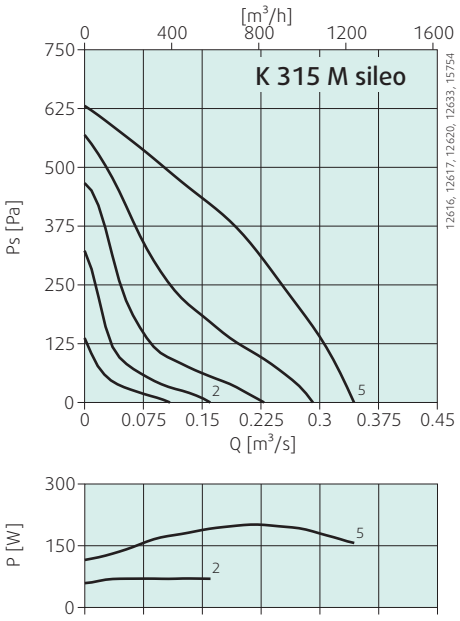
Measurement point: 135.8 l/s; 215.2 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	50	59	66	61	64	61	60	51
L_{wA} Outlet dB(A)	71	49	60	65	61	65	64	61	52
L_{wA} Surrounding dB(A)	51	26	28	44	44	45	43	40	29

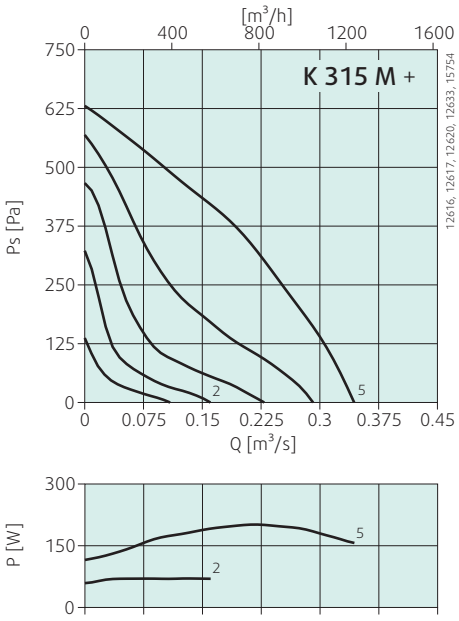
Measurement point: 155 l/s; 312.5 Pa

Performance



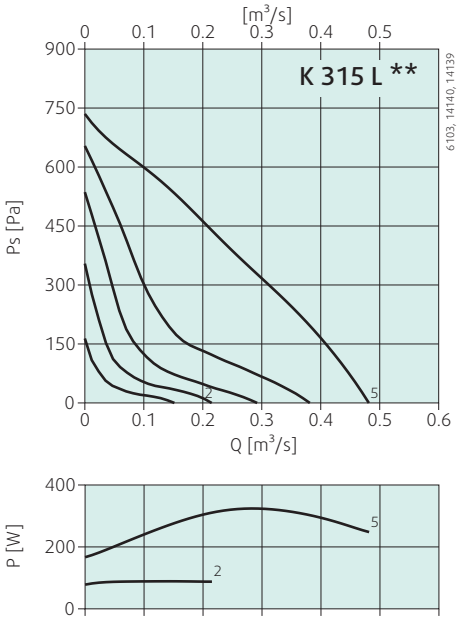
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	54	62	61	63	66	64	60	56
L_{wA} Outlet dB(A)	72	57	58	64	63	67	67	60	57
L_{wA} Surrounding dB(A)	50	25	32	37	43	42	46	40	30

Measurement point: 190 l/s; 462.1 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	46	60	64	63	65	63	64	53
L_{wA} Outlet dB(A)	71	50	58	63	60	64	65	64	54
L_{wA} Surrounding dB(A)	53	16	25	43	46	44	49	46	32

Measurement point: 180 l/s; 394.1 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	55	66	70	70	68	66	63	58
L_{wA} Outlet dB(A)	77	62	67	71	69	70	70	63	57
L_{wA} Surrounding dB(A)	57	24	37	45	52	48	51	46	46

Measurement point: 216 l/s; 419 Pa

KV

Circular duct fan



- Absolutely airtight, seamed casing
- Suitable for applications outdoors and in wet rooms
- Speed controllable via voltage
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Airtight, seamed casing made from galvanised steel. Leakage rate compliant with tightness class C, according to EN 12237:2003.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Power control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Integrated thermal contacts with manual reset in accordance with EN60335-2-80 (sizes 100 M and 125 M have integrated thermal protection).

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



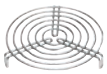
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

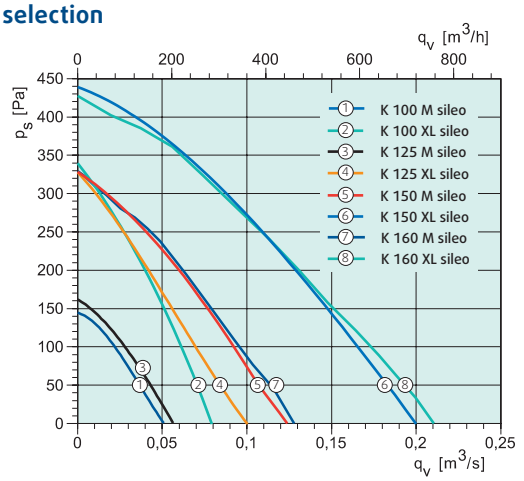


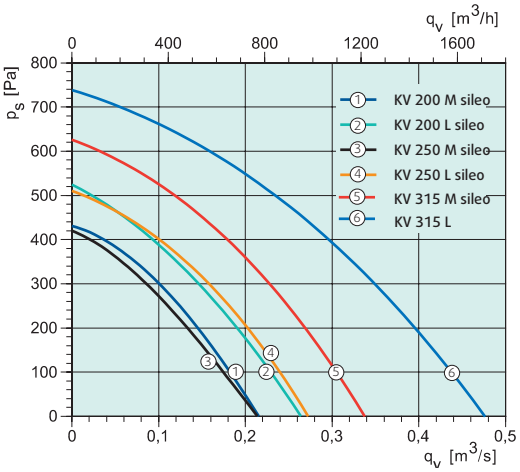
REV
Switching device
Page 510



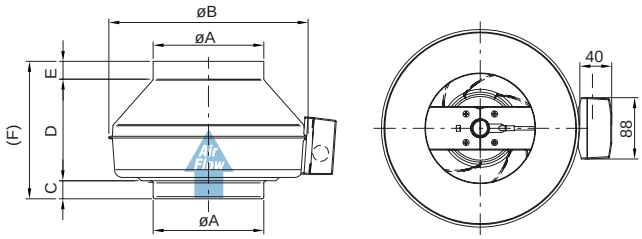
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



KV	øA	øB	C	D	E	(F)
100 M sileo	99	218	26	166	26	218
100 XL sileo	99	246	26	161	26	213
125 M sileo	124	218	27	142	27	196
125 XL sileo	124	246	26	151	26	203
150 M sileo	149	286	25	152	25	202
150 XL sileo	149	336	29	171	26	226
160 M sileo	159	286	25	147	26	198
160 XL sileo	159	336	29	166	26	221
200 M sileo	199	336	30	148	27	205
200 L sileo	199	336	30	174	27	231
250 M sileo	249	336	30.5	119.5	27	177
250 L sileo	249	336	30.5	144.5	27	202
315 M sileo	314	408	32.5	160.5	27	220
315 L	314	408	37.5	160.5	27	225

Technical data

KV		KV 100 M sileo	KV 100 XL sileo	KV 125 M sileo	KV 125 XL sileo	KV 150 M sileo	KV 150 XL sileo	KV 160 M sileo	KV 160 XL sileo
Art. no.		*1205*	*25368*	*1208*	*25369*	*25370*	*25371*	*25372*	*25373*
Voltage	V	230	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1	1	1
Input power (P1)	W	28.9	51.3	29.2	52	52.5	99.9	53.5	102
Current	A	0,17	0.224	0.171	0.228	0.229	0.443	0.232	0.446
Max. airflow	l/s	55.6	92.5	60.8	107	132	217	130	222
Fan impeller speed	r.p.m	2465	2443	2489	2387	2373	2501	2399	2532
Max. temperature of transported air	°C	70	70	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70	70	70
Sound pressure level at 3 m (20m² Sabine)	dB(A)	32.2	42.3	38	39.2	42.2	46.8	42.3	45.1
Weight	kg	2.1	2.8	2.1	2.8	3.1	3.8	3.1	3.8
Insulation class		B	B	B	B	B	F	B	F
Enclosure class. motor	IP	44	44	44	44	44	44	44	44
Capacitor	µF	-	1.5		1.5	1.5	2.5	1.5	2.5
Motor protection (1)		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)	electr.	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1

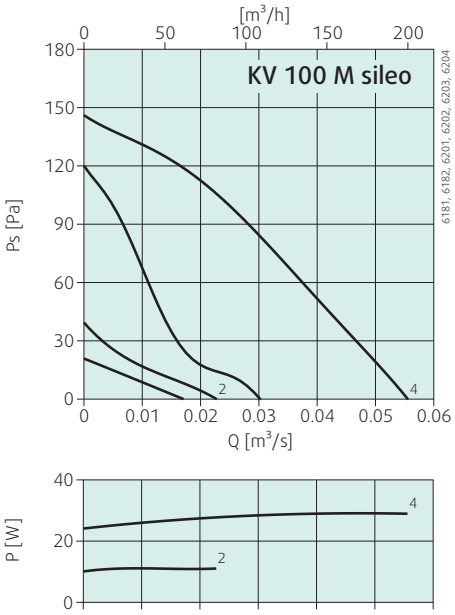
KV		KV 200 M sileo	KV 200 L sileo	KV 250 M sileo	KV 250 L sileo	KV 315 M sileo	KV 315 M (**)	KV 315 L (**)
Art. no.		*25374*	*19518*	*25375*	*19519*	*27425*	*27759*	*19520*
Voltage	V	230	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1	1
Input power (P1)	W	99.2	143	106	148	232	201	310
Current	A	0.438	0.628	0.454	0.648	1.01	0.881	1.35
Max. airflow	l/s	214	272	221	273	346	351	467
Fan impeller speed	r.p.m	2524	2554	2486	2556	2781	2506	2367
Max. temperature of transported air	°C	70	70	70	70	70	70	50.7
* when voltage-controlled	°C	70	70	70	70	70	63.6	45.4
Sound pressure level at 3 m (20m² Sabine)	dB(A)	41.7	49	46.6	46.9	46.6	43.2	50.7
Weight	kg	3.8	4.5	3.8	4.6	6.6	5.5	6.6
Insulation class		F	F	F	F	F	F	F
Enclosure class. motor	IP	44	44	44	44	44	44	44
Capacitor	µF	2.5	3.5	2.5	3.5	5	5	7
Motor protection (1)		Integral	Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 3	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 3	REU 1.5	REU 1.5
Speed control, stepless (1)	electr.	REE 1	REE 1	REE 2	REE 2	REE 1	REE 1	REE 2

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

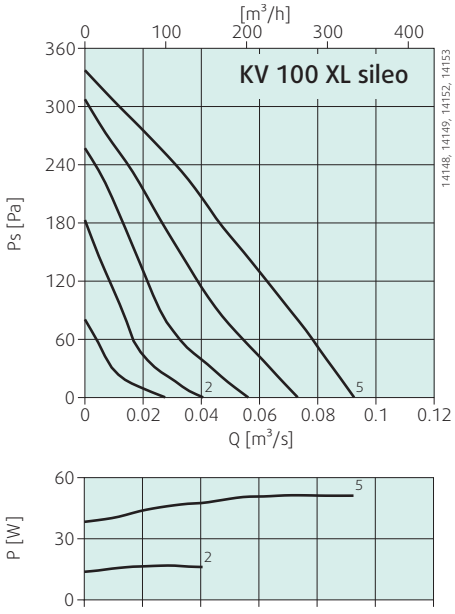


Performance



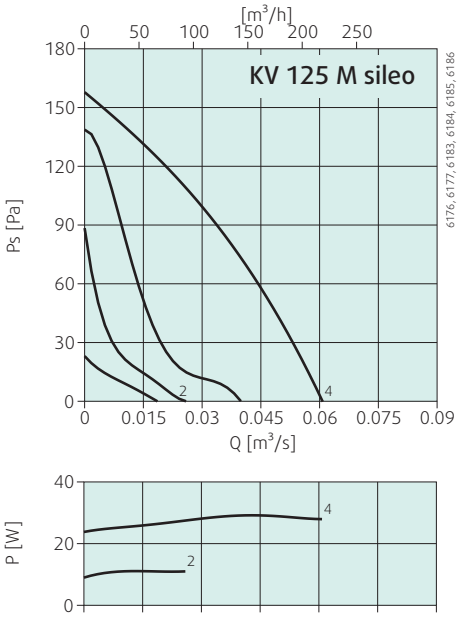
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	64	43	56	59	60	56	50	39	22
L_{wA} Outlet dB(A)	62	49	50	59	56	52	46	36	21
L_{wA} Surrounding dB(A)	43	16	18	25	40	39	33	20	12

Measurement point: 37.5 l/s; 46.9 Pa



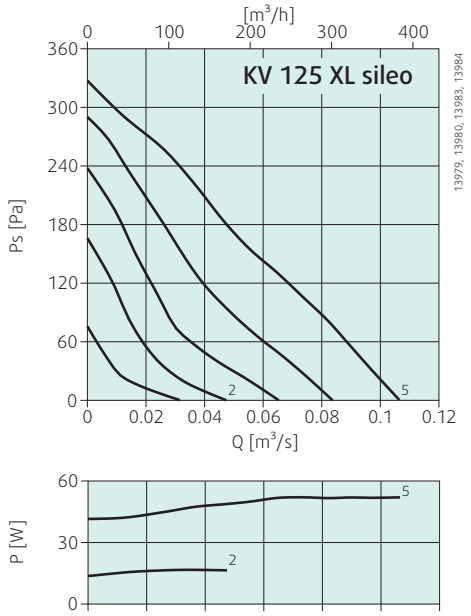
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	54	65	62	65	64	60	52	40
L_{wA} Outlet dB(A)	68	54	64	58	62	61	58	50	37
L_{wA} Surrounding dB(A)	52	29	17	30	49	47	45	39	27

Measurement point: 37.5 l/s; 206.6 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	39	54	56	58	54	50	34	22
L_{wA} Outlet dB(A)	61	38	52	55	57	53	49	37	23
L_{wA} Surrounding dB(A)	41	13	23	28	37	37	34	22	13

Measurement point: 40.8 l/s; 46.7 Pa

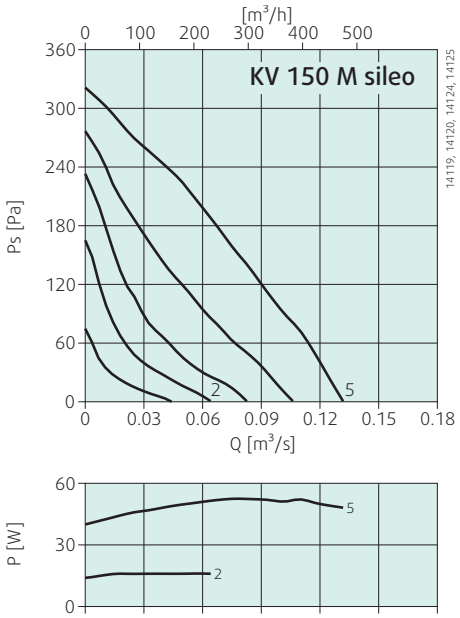


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	47	63	64	65	63	60	53	42
L_{wA} Outlet dB(A)	68	49	62	59	62	61	58	50	40
L_{wA} Surrounding dB(A)	49	19	17	38	45	42	42	36	29

Measurement point: 39.7 l/s; 201.5 Pa

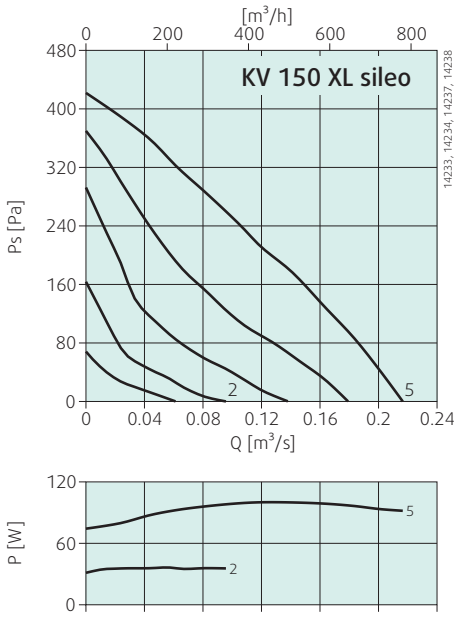


Performance



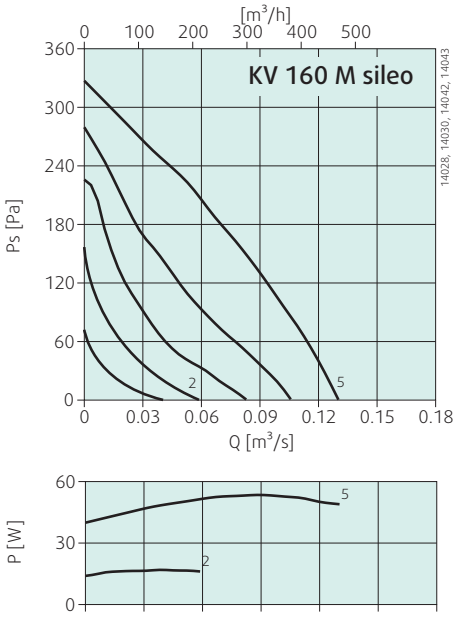
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	46	56	57	57	58	58	55	42
L_{wA} Outlet dB(A)	63	40	53	50	56	57	56	53	40
L_{wA} Surrounding dB(A)	44	19	13	28	38	38	38	38	27

Measurement point: 66.4 l/s; 182.2 Pa



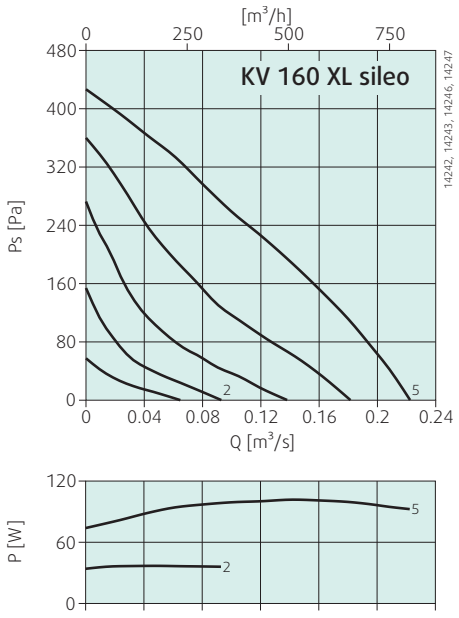
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	50	76	67	71	67	62	59	49
L_{wA} Outlet dB(A)	74	54	71	62	68	64	62	55	48
L_{wA} Surrounding dB(A)	53	15	33	37	50	46	47	44	30

Measurement point: 86.4 l/s; 280.4 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	41	61	59	58	59	58	52	41
L_{wA} Outlet dB(A)	65	44	60	54	59	58	57	51	40
L_{wA} Surrounding dB(A)	45	17	21	32	39	38	40	34	25

Measurement point: 52.5 l/s; 223.4 Pa

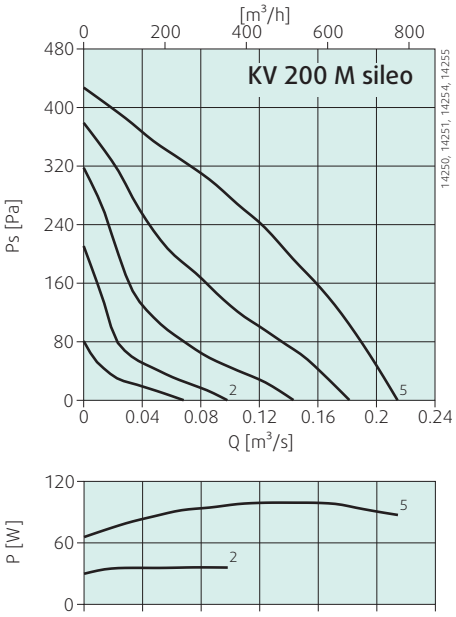


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	47	74	66	72	69	64	59	49
L_{wA} Outlet dB(A)	77	53	76	61	70	65	62	55	46
L_{wA} Surrounding dB(A)	53	10	32	36	50	47	46	42	28

Measurement point: 100.6 l/s; 245.8 Pa

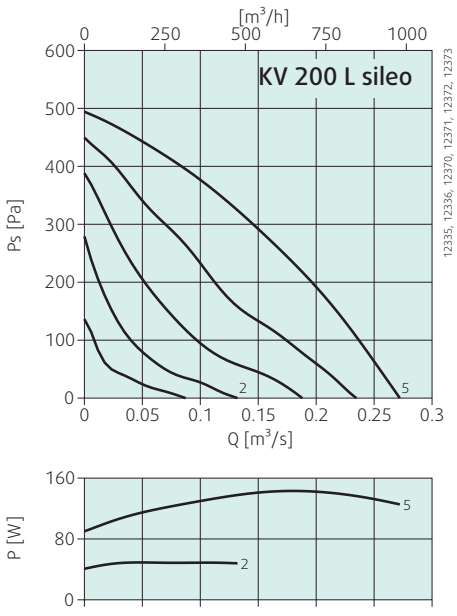


Performance



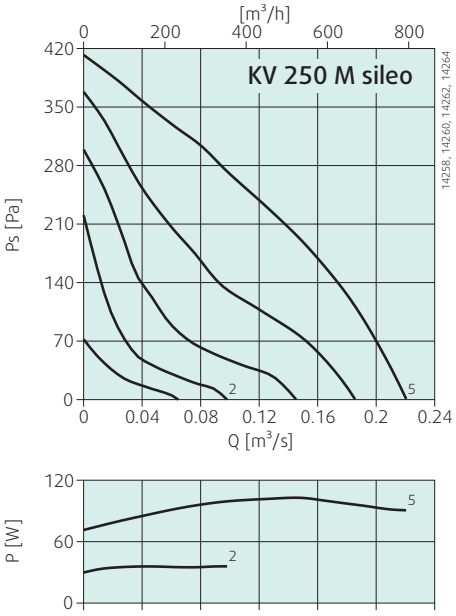
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	62	62	64	63	62	57	50
L_{wA} Outlet dB(A)	70	45	57	63	64	63	63	57	49
L_{wA} Surrounding dB(A)	50	14	23	37	46	43	43	38	29

Measurement point: 123.1 l/s; 230.9 Pa



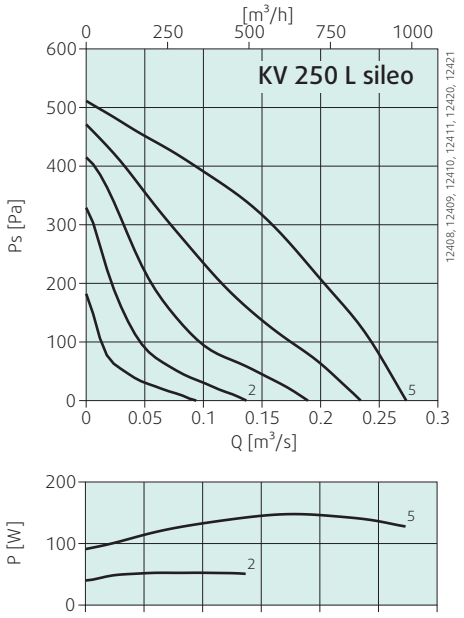
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	42	61	64	63	64	63	56	54
L_{wA} Outlet dB(A)	70	49	59	62	65	64	64	58	53
L_{wA} Surrounding dB(A)	51	6	24	32	42	47	46	40	36

Measurement point: 155 l/s; 299.7 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	37	58	64	61	61	59	54	50
L_{wA} Outlet dB(A)	69	41	62	64	61	62	60	53	47
L_{wA} Surrounding dB(A)	48	9	29	41	43	43	38	36	32

Measurement point: 135.8 l/s; 215.2 Pa

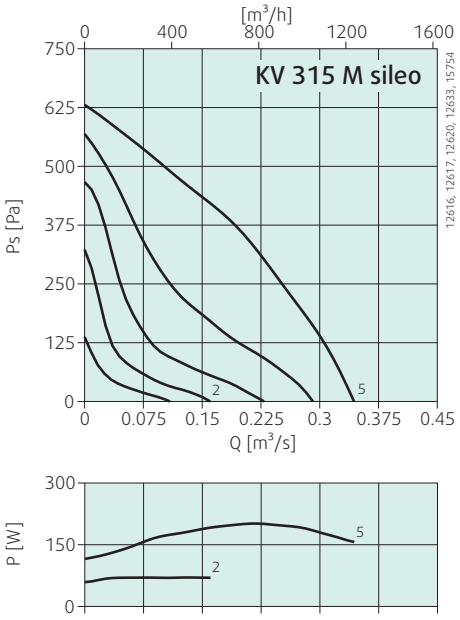


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	50	59	66	61	64	61	60	51
L_{wA} Outlet dB(A)	71	49	60	65	61	65	64	61	52
L_{wA} Surrounding dB(A)	51	26	28	44	44	45	43	40	29

Measurement point: 155 l/s; 312.5 Pa

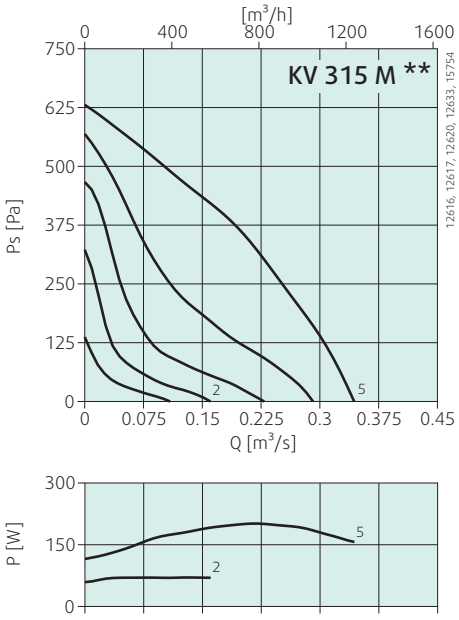


Performance



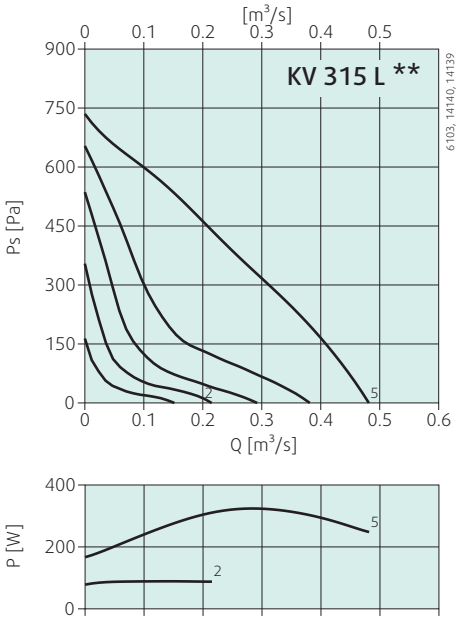
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	54	62	61	63	66	64	60	56
L_{wA} Outlet dB(A)	72	57	58	64	63	67	67	60	57
L_{wA} Surrounding dB(A)	50	25	32	37	43	42	46	40	30

Measurement point: 190 l/s; 462.1 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	46	60	64	63	65	63	64	53
L_{wA} Outlet dB(A)	71	50	58	63	60	64	65	64	54
L_{wA} Surrounding dB(A)	53	16	25	43	46	44	49	46	32

Measurement point: 180 l/s; 394.1 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	55	66	70	70	68	66	63	58
L_{wA} Outlet dB(A)	77	62	67	71	69	70	70	63	57
L_{wA} Surrounding dB(A)	57	24	37	45	52	48	51	46	46

Measurement point: 216 l/s; 419 Pa

RVK sileo

Circular duct fan



sileo

- Can be installed in any mounting position
- Includes mounting bracket for easy installation
- Speed controllable via voltage
- Vibration-free connection to the duct system with FK fast clamp (accessories)
- Integrated thermal contacts in accordance with EN 60335-2-80

Casing
Plastic casing (Polyamide with 15% glass fibre content).

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Integrated thermal contacts in accordance with EN60335-2-80, with manual reset.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



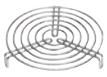
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

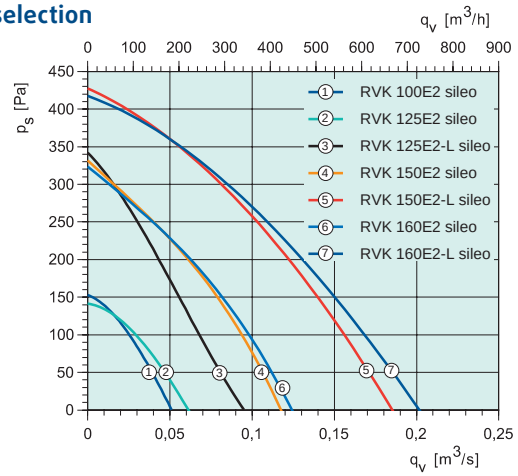


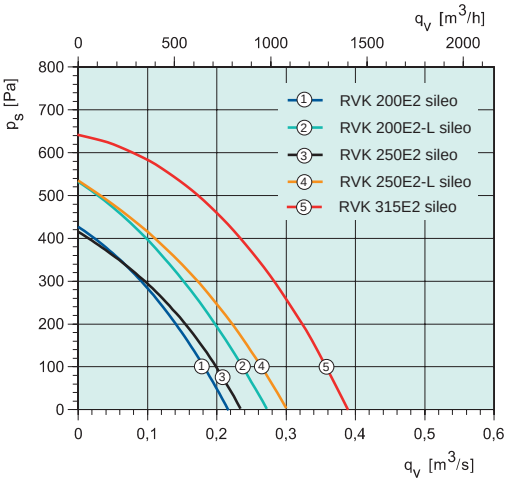
REV
Switching device
Page 510



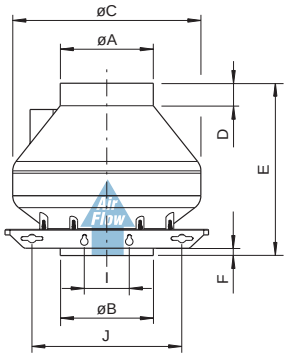
FRQ
Frequency inverter
Page 490

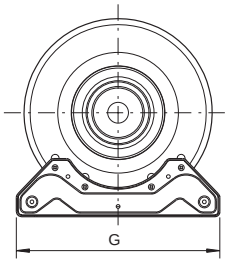
Quick selection





Dimensions





RVK	øA	øB	øC	D	E	F	G	I	J
100 sileo	99	99	251	30	230	30	271.5	60	200
125 sileo	124	124	251	30	230	30	271.5	60	200
150 sileo	149	149	340.5	30	230	30	271.5	60	200
160 sileo	159	159	340.5	30	230	30	271.5	60	200
200 sileo	199	199	340.5	30	230	30	271.5	60	200
250 sileo	249	249	340.5	30	230	30	271.5	60	200
315 sileo	314	314	340.5	30	230	30	271.5	60	200

Technical data

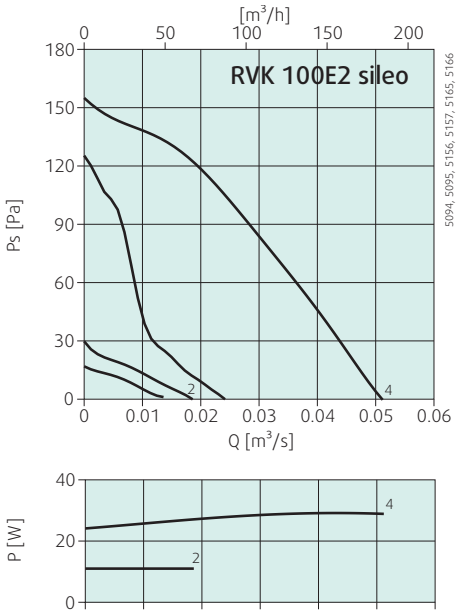
RVK sileo		100E2 sileo	125E2 sileo	125E2-L sileo	150E2 sileo	150E2-L sileo	160E2 sileo
Art. no.		*5755*	*5756*	*30331*	*30336*	*30341*	*30338*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1
Input power (P1)	W	29.1	29.2	58.8	59.6	109	59.2
Current	A	0.171	0.172	0.257	0.262	0.48	0.261
Max. airflow	m^3/h	184	220	323	428	720	436
Fan impeller speed	r.p.m	2482	2469	2494	2437	2527	2459
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	34.5	37.5	43	40.6	44.8	41.4
Weight	kg	1.8	1.8	2.2	2.6	3.1	2.7
Insulation class		B	B	B	B	F	B
Enclosure class. motor	IP	44	44	44	44	44	44
Capacitor	µF	-	-	2	2	3	2
Motor protection [1]		Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step [1]	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low [1]	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless [1]	electr.	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1

RVK sileo		160E2-L sileo	200E2 sileo	200E2-L sileo	250E2 sileo	250E2-L sileo	315E2-M sileo
Art. no.		*30342*	*36092*	*36094*	*36093*	*36095*	*37789*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1
Input power (P1)	W	106	104	153	109	159	226
Current	A	0.461	0.46	0.672	0.476	0.691	1.0
Max. airflow	m^3/h	731	796	1008	860	1080	1361
Fan impeller speed	r.p.m	2557	2495	2533	2518	2531	2714
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	55	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	44.4	42	44.9	39.7	41.9	40.4
Weight	kg	3.2	3.2	3.8	3.3	3.8	5.1
Insulation class		F	F	F	F	F	B
Enclosure class. motor	IP	44	44	44	44	44	44
Capacitor	µF	3	3	4	3	4	5
Motor protection		Integral	Integral	Integral	Integral	Integral	Integral
Speed control, five-step [1]	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low [1]	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless [1]	electr.	REE 1	REE 1	REE 1	REE 1	REE 1	REE 1

[1] Systemair recommendation. More alternatives can be found on page 478.

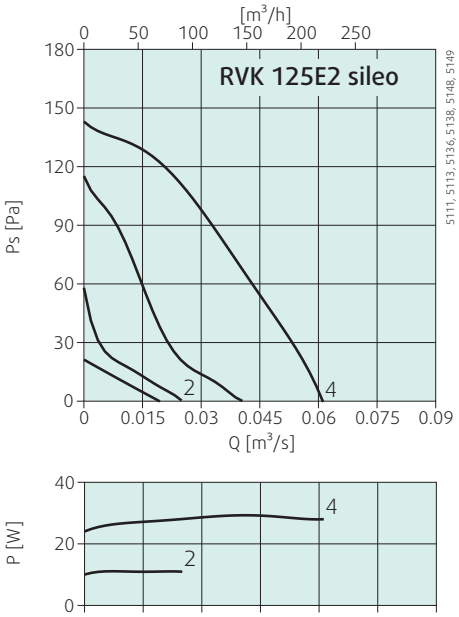


Performance



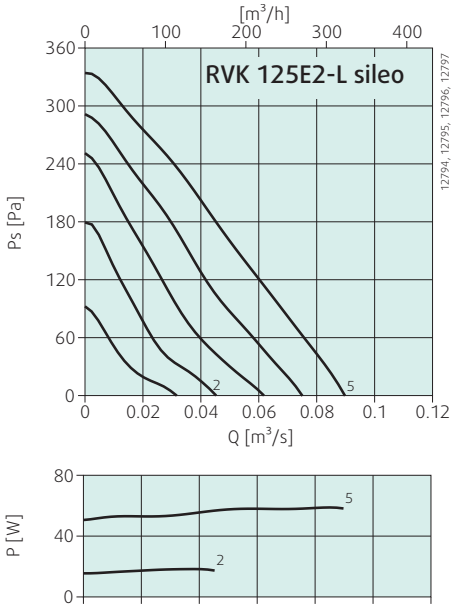
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	39	57	57	57	51	44	39	27
L_{wA} Outlet dB(A)	57	42	52	51	51	47	43	39	28
L_{wA} Surrounding dB(A)	41	1	11	30	37	37	34	25	14

Measurement point: 99 m³/h; 93 Pa



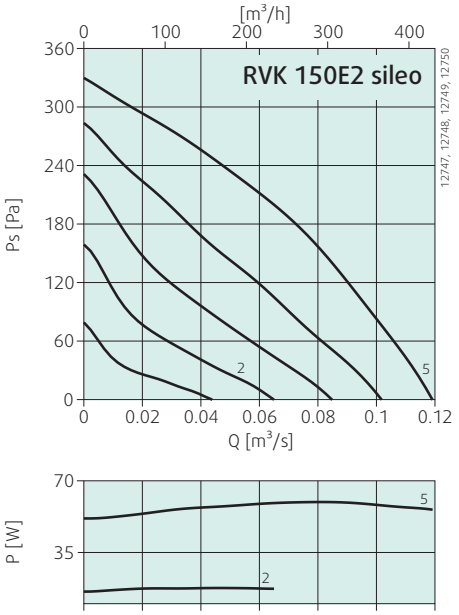
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	36	56	57	60	52	46	41	33
L_{wA} Outlet dB(A)	60	36	54	56	53	50	47	42	33
L_{wA} Surrounding dB(A)	45	12	15	28	42	37	36	27	28

Measurement point: 125 m³/h; 85 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	45	58	63	62	60	57	51	41
L_{wA} Outlet dB(A)	66	51	58	62	61	57	53	49	39
L_{wA} Surrounding dB(A)	50	12	25	32	43	46	45	36	24

Measurement point: 51 m³/h; 194 Pa

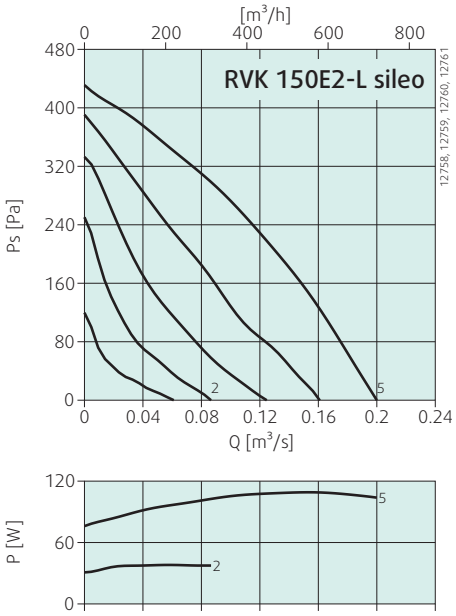


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	43	53	58	59	60	56	50	39
L_{wA} Outlet dB(A)	63	43	54	57	56	57	51	47	37
L_{wA} Surrounding dB(A)	48	14	10	27	42	44	41	30	21

Measurement point: 257 m³/h; 183 Pa

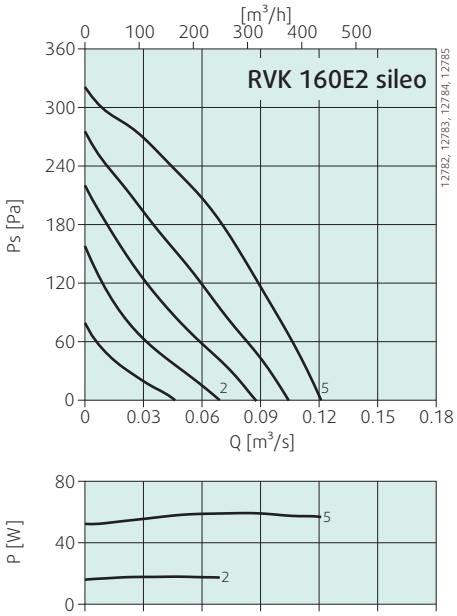


Performance



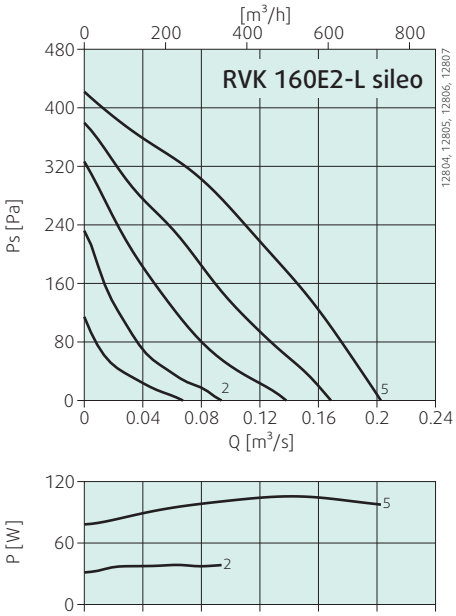
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	69	44	61	63	63	62	59	54	46
L_{WA} Outlet dB(A)	68	47	60	62	60	62	58	52	44
L_{WA} Surrounding dB(A)	52	12	21	30	46	48	45	37	25

Measurement point: 368 m³/h; 268 Pa



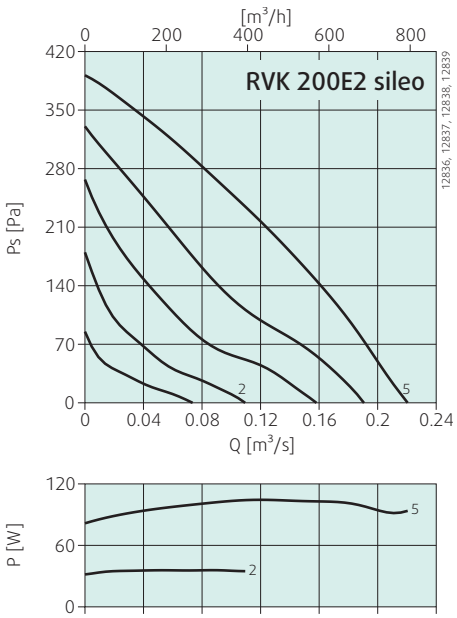
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	66	42	58	58	59	60	58	51	41
L_{WA} Outlet dB(A)	64	51	57	56	56	58	55	51	40
L_{WA} Surrounding dB(A)	48	14	25	30	43	44	43	30	23

Measurement point: 250 m³/h; 183 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	70	46	63	62	63	63	61	57	47
L_{WA} Outlet dB(A)	68	48	62	59	63	60	58	53	46
L_{WA} Surrounding dB(A)	51	17	28	28	44	48	46	35	23

Measurement point: 366 m³/h; 259 Pa

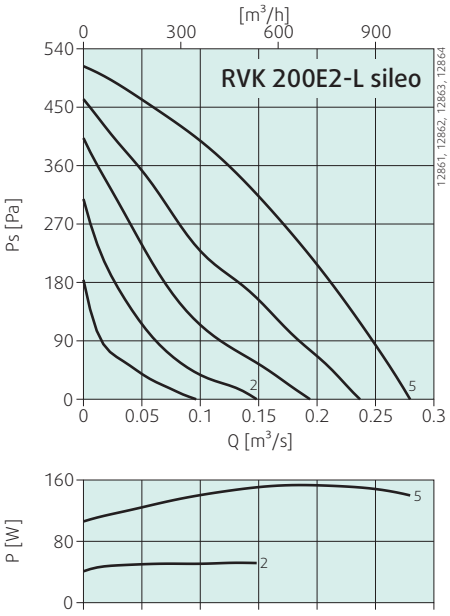


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	68	41	58	60	62	61	61	56	48
L_{WA} Outlet dB(A)	66	47	55	54	60	58	59	56	50
L_{WA} Surrounding dB(A)	49	17	27	33	45	43	43	37	27

Measurement point: 440 m³/h; 213 Pa

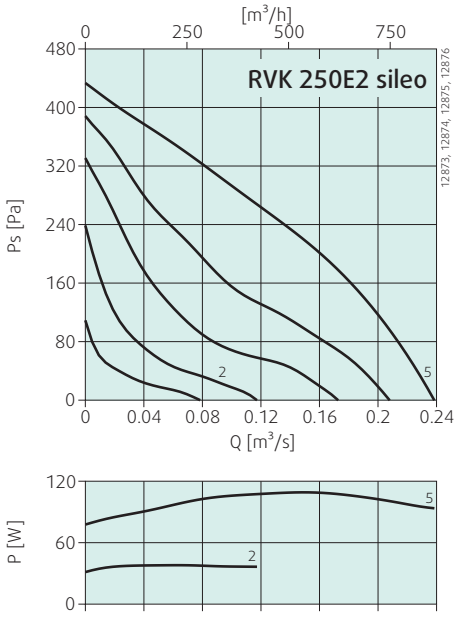


Performance



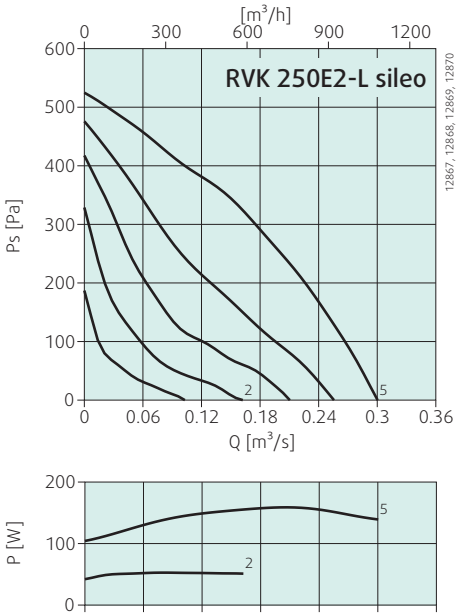
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	45	58	61	62	65	62	55	47
L_{wA} Outlet dB(A)	69	48	56	59	61	63	63	56	48
L_{wA} Surrounding dB(A)	52	17	27	36	44	49	46	34	25

Measurement point: 515 m³/h; 326 Pa



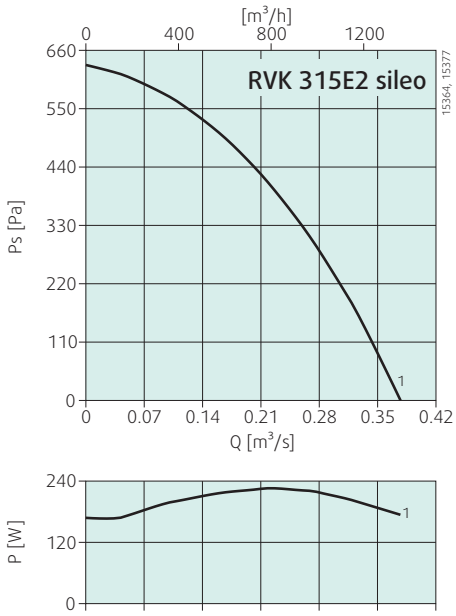
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	49	58	62	60	59	58	54	47
L_{wA} Outlet dB(A)	65	46	57	57	59	57	58	54	48
L_{wA} Surrounding dB(A)	47	29	31	38	43	41	38	34	26

Measurement point: 494 m³/h; 238 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	46	58	69	60	65	58	54	47
L_{wA} Outlet dB(A)	67	49	57	57	58	64	59	54	45
L_{wA} Surrounding dB(A)	49	16	30	43	40	46	39	30	21

Measurement point: 618 m³/h; 307 Pa

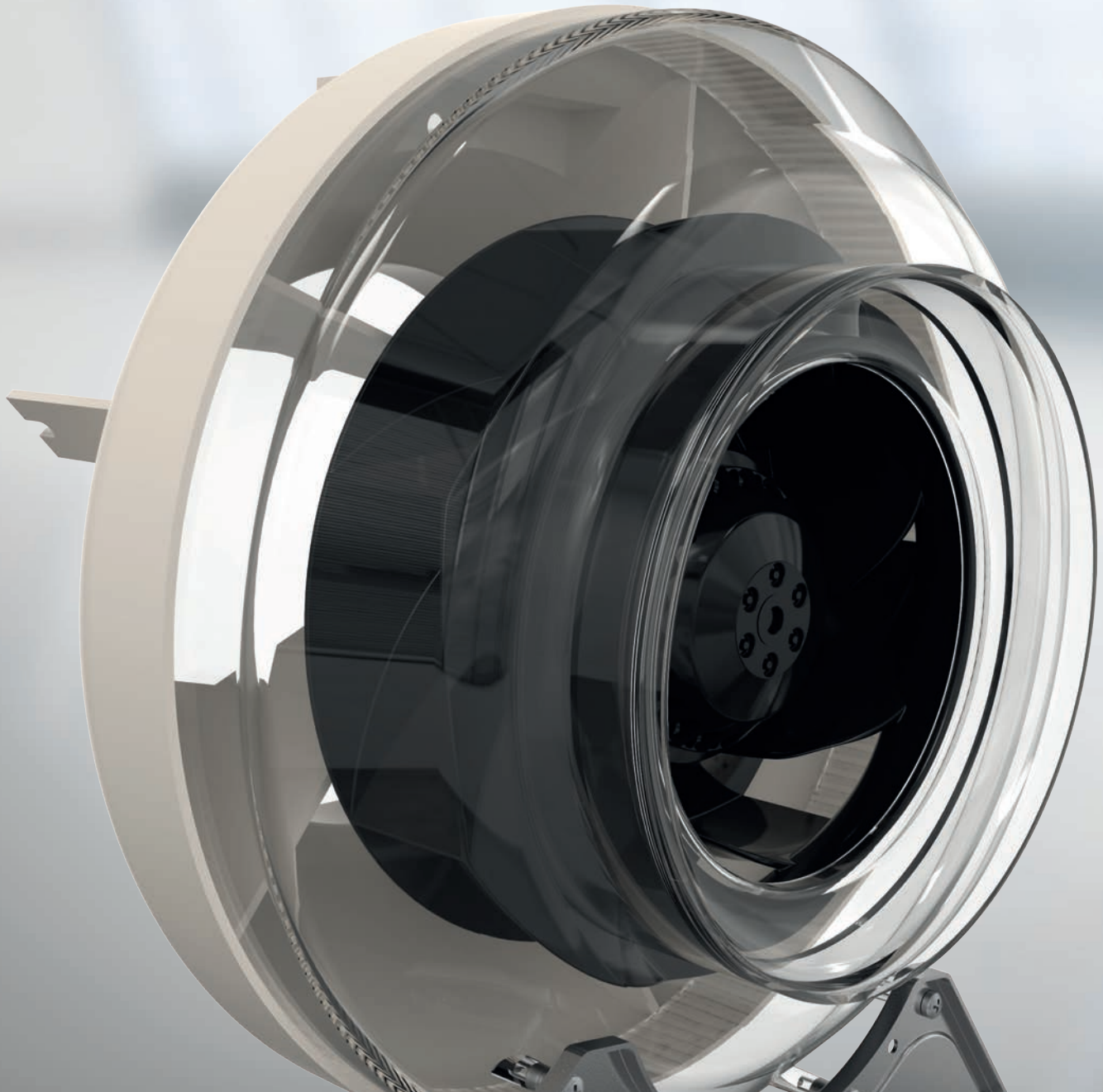


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	46	58	69	60	65	58	54	47
L_{wA} Outlet dB(A)	67	49	57	57	58	64	59	54	45
L_{wA} Surrounding dB(A)	49	16	30	43	40	46	39	30	21

Measurement point: 618 m³/h; 307 Pa

RVK...

...SILEO - WONDERFULLY QUIET



prioAir EC

Circular duct fan



- Low SFP values and very high efficiency
- Powerful EC motor
- Compact design, therefore low space requirement
- Low noise
- Can be installed in any mounting position

Casing
Airtight, compact casing made from composite material (PP TD20). Leakage rate compliant with tightness class C, according to EN 12237:2003.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Thanks to our newly developed, flow-optimised, free running plastic axial impeller and special guide vanes, the prioAir is the fan with the best SFP values in its class.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



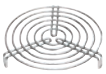
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
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VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Speed control
Page 488

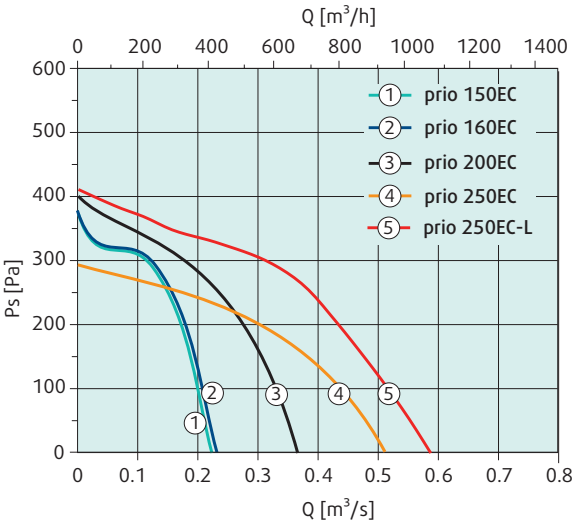


MTV
Speed control
Page 488

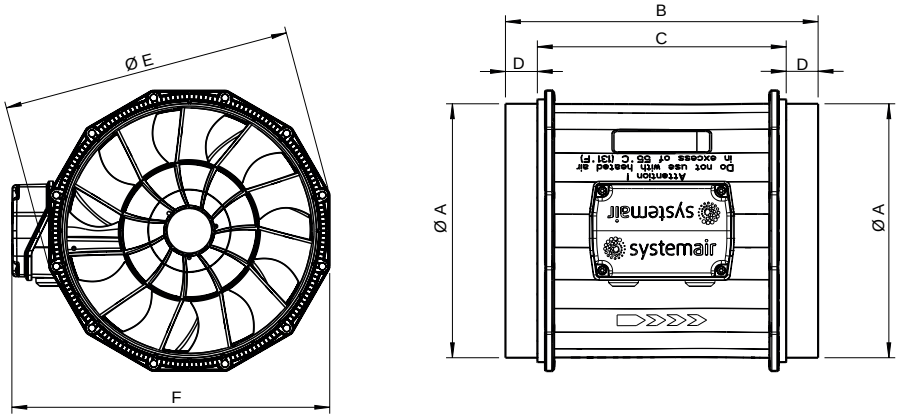


REV
Switching device
Page 510

Quick selection



Dimensions



prio EC	ØA	B	C	D	ØE	F
prio 150 EC	149	412	332	40	187	211
prio 160 EC	159	220	170	25	187	211
prio 200 EC	199	245	195	25	227	249
prio 250 EC	249	300	240	30	284.4	303
prio 250 EC-L	249	300	240	30	284.4	303



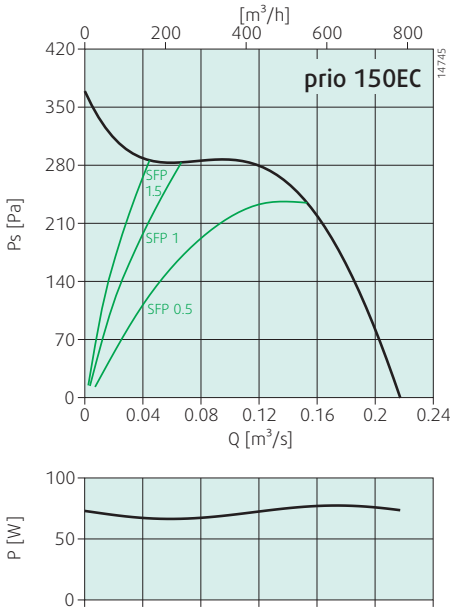
Space-saving: Thanks to its compact dimensions, the in-line circular duct fan can be easily integrated into the duct system. An elegant in-line solution.

Technical data

prio EC		prio 150 EC	prio 160 EC	prio 200 EC	prio 250 EC	prio 250 EC-L
Art. no.		*37356*	*36917*	*36380*	*38331*	*38332*
Voltage	V	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1
Input power (P1)	W	76	77	117	126	165
Current	A	0.642	0.661	0.921	0.901	1.35
Max. airflow	m^3/h	796	806	1332	1822	2077
Fan impeller speed	r.p.m	4330	4320	3463	2336	2650
Max. temperature of transported air	°C	55	55	55	55	55
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	47	47	50	45.7	50
Weight	kg	1.9	1.6	2.4	2.9	3.05
Insulation class		B	B	B	B	B
Enclosure class. motor	IP	44	44	44	44	44
Motor protection		integral	integral	integral	integral	integral
Speed control, stepless [1]	electr.	MTP 10	MTP 10	MTP 10	MTP 10	MTP 10

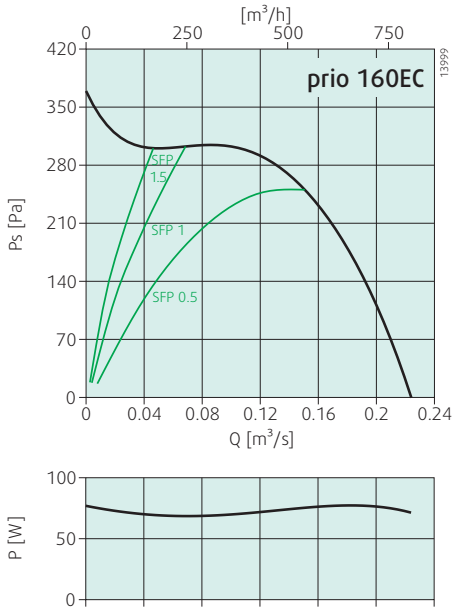
[1] Systemair recommendation. More alternatives can be found on page 478.

Performance



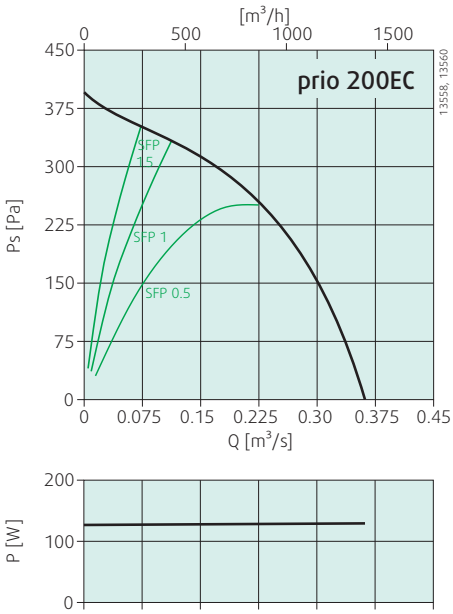
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	43	53	67	67	70	67	62	53
L_{wA} Outlet dB(A)	70	41	53	59	64	65	62	59	53
L_{wA} Surrounding dB(A)	57	20	10	54	39	50	51	42	27

Measurement point: 474 m³/h; 259 Pa



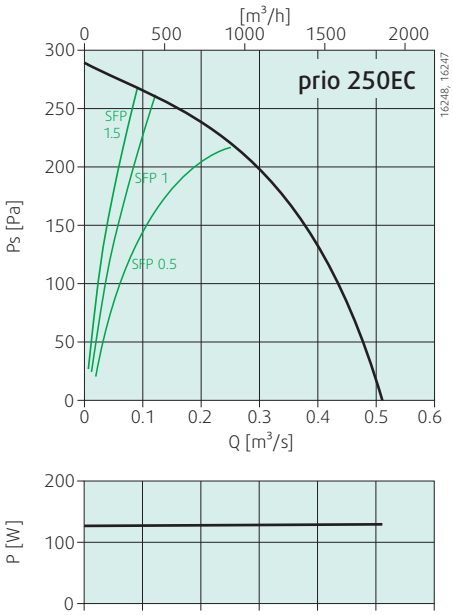
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	45	54	70	71	73	69	64	56
L_{wA} Outlet dB(A)	72	43	54	58	67	68	65	61	56
L_{wA} Surrounding dB(A)	59	13	27	38	52	56	53	45	32

Measurement point: 799 m³/h; 270 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	45	54	70	71	73	69	64	56
L_{wA} Outlet dB(A)	72	43	54	58	67	68	65	61	56
L_{wA} Surrounding dB(A)	59	13	27	38	52	56	53	45	32

Measurement point: 803 m³/h; 270 Pa

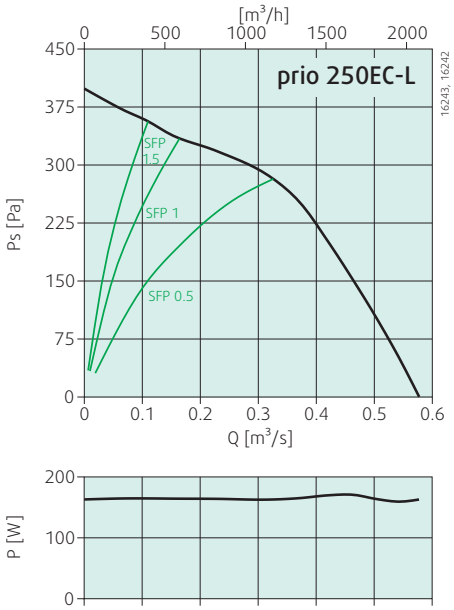


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	35	57	63	63	67	65	60	53
L_{wA} Outlet dB(A)	70	36	51	57	62	65	65	59	49
L_{wA} Surrounding dB(A)	53	1	27	38	46	50	45	35	23

Measurement point: 294.3 l/s; 206.4 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	39	53	68	64	72	70	63	53
L_{wA} Outlet dB(A)	74	47	54	61	65	71	69	62	49
L_{wA} Surrounding dB(A)	57	10	26	47	46	55	51	38	25

Measurement point: 370.9 l/s; 252.3 Pa

prioAir

Circular duct fan



NEW!

- Low SFP values and very high efficiency
- Compact design, therefore low space requirement
- Low noise
- Can be installed in any mounting position

Casing
Airtight, compact casing made from composite material (PP TD20). Leakage rate compliant with tightness class C, according to EN 12237:2003.

Motor
Voltage controllable external rotor motors

Impeller geometry
Thanks to our newly developed, flow-optimised, free running plastic axial impeller and special guide vanes, the prioAir is the fan with the best SFP values in its class.

Output control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Integrated thermal contacts in accordance with EN60335-2-80, with manual reset.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



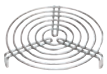
IGK
Intake grid
Page 515



LDC
Silencer
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RSK
Back draft damper
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SG
Protection guard
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VK
Louvre shutter
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VKK
Back draft damper
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VBC
Water heating battery
Page 521



VBF
Water heating battery
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CWK
Water cooling battery
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Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

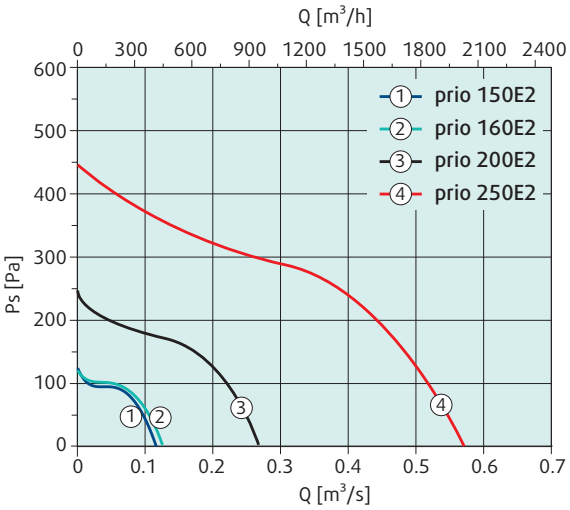


REV
Switching device
Page 510

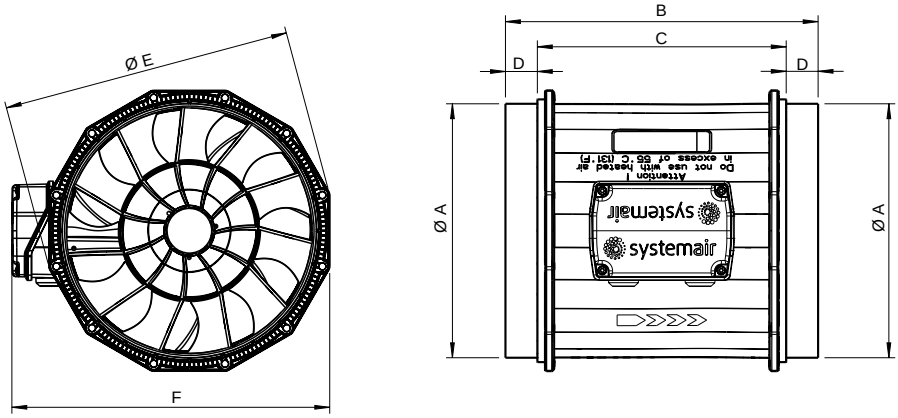


FRQ
Frequency inverter
Page 490

Quick selection



Dimensions



prio	ØA	B	C	D	ØE	F
prio 150	149	412	332	40	187	211
prio 160	159	220	170	25	187	211
prio 200	199	245	195	25	227	249
prio 250	249	300	240	30	284.4	303



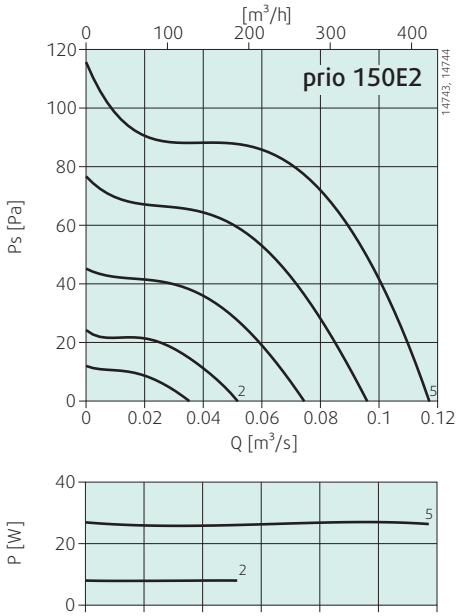
Space-saving: Thanks to its compact dimensions, the in-line circular duct fan can be easily integrated into the duct system. An elegant in-line solution.

Technical data

prio		prio 150	prio 160	prio 200	prio 250
Art. no.		*37355*	*36916*	*36381*	*38333*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	27.8	27	71.7	200
Current	A	0.12	0.12	0.33	0.9
Max. airflow	m^3/h	439	436	947	2038
Fan impeller speed	r.p.m	2403	2450	2563	2660
Max. temperature of transported air	°C	55	55	55	55
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	31	31	44	48
Weight	kg	1.7	1.4	3.1	4.6
Insulation class		B	B	B	B
Enclosure class. motor	IP	44	44	44	44
Capacitor	µF	0.7	0.7	1.5	6
Motor protection		integral	integral	integral	integral
Speed control, stepless [1]	electr.	REE 1	REE 1	REE 1	REE 1

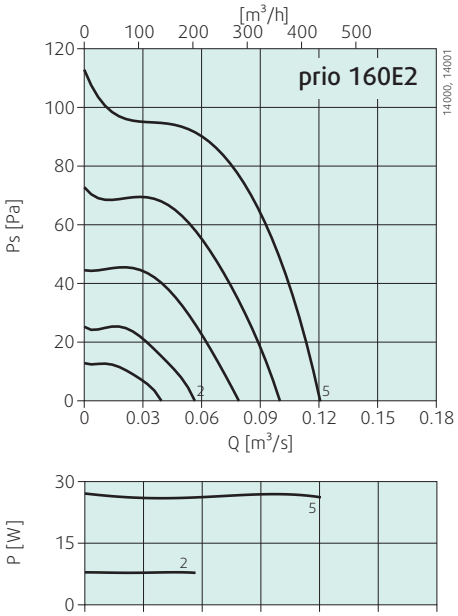
[1] Systemair recommendation. More alternatives can be found on page 478.

Performance



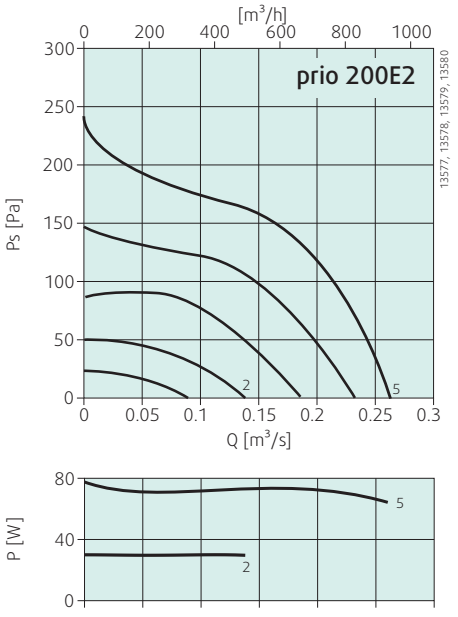
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	41	57	62	56	52	51	45	33
L_{wA} Outlet dB(A)	63	37	57	56	58	53	51	44	31
L_{wA} Surrounding dB(A)	48	10	15	47	35	36	38	27	15

Measurement point: 281 m³/h; 75 Pa



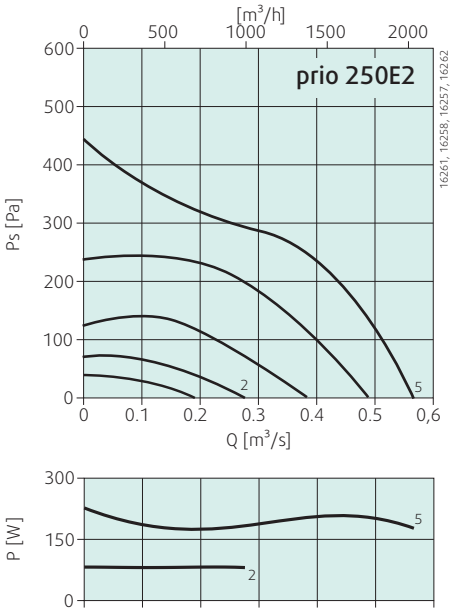
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	40	49	61	54	54	50	42	28
L_{wA} Outlet dB(A)	67	40	47	66	56	56	52	44	30
L_{wA} Surrounding dB(A)	40	15	6	34	34	36	33	19	7

Measurement point: 293 m³/h; 75 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	41	52	71	66	66	63	58	49
L_{wA} Outlet dB(A)	68	49	50	58	64	61	60	56	49
L_{wA} Surrounding dB(A)	54	12	25	41	49	49	47	34	23

Measurement point: 185 l/s; 180 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	47	61	66	68	71	72	65	57
L_{wA} Outlet dB(A)	77	53	61	67	70	73	71	65	57
L_{wA} Surrounding dB(A)	60	19	40	46	52	57	55	44	30

Measurement point: 382 l/s; 323 Pa



Lengths ahead – the new prio**Air**.
Best Specific Fan Power.

KVO EC

Circular duct fan



- High efficiency across the entire system characteristic field
- Low noise level, developed for noise-sensitive applications
- Motor and impeller are mounted in the cover which can be folded back to make cleaning and maintenance easier
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Casing from galvanised steel. Cover with 40 mm mineral wool acoustic and thermal insulation.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with forward curved blades.
From size 200 and up with backward curvedblades.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



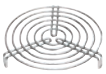
IGK
Intake grid
Page 515



LDC
Silencer
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RSK
Back draft damper
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SG
Protection guard
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VK
Louvre shutter
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VBC
Water heating battery
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VBF
Water heating battery
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CWK
Water cooling battery
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Electrical accessories



EC-Vent
Room unit
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MTP
Speed control
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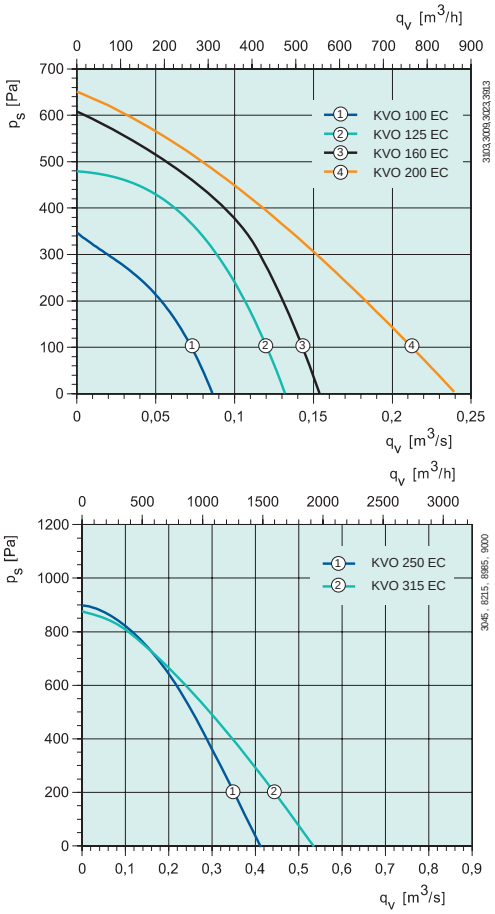


MTV
Speed control
Page 488

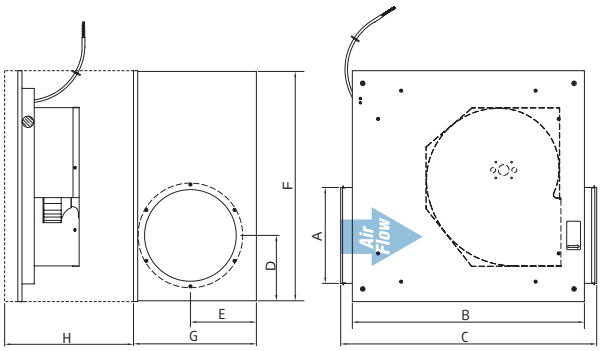


REV
Switching device
Page 510

Quick selection



Dimensions



KVO EC	A	B	C	D	E	F	G	H
100	100	329	367	69	76	300	150	150
125	125	329	367	84	72	300	150	150
160	160	329	367	99	90	300	185	185
200	200	419	466	123	109	435	220	220
250	250	528	612	151	133	558	270	270
315	315	614	700	183	164	615	344	260

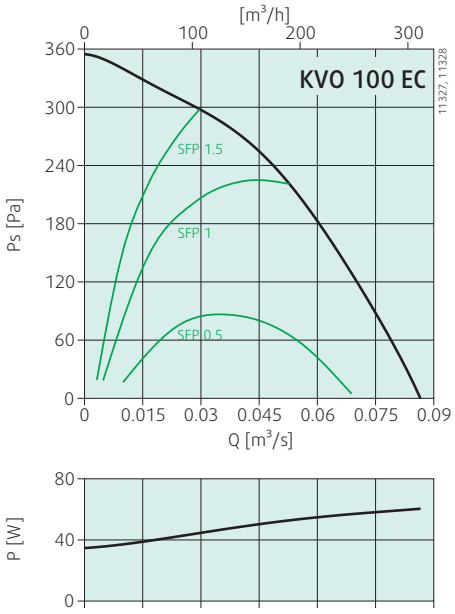
Technical data

KVO EC		KVO 100 EC	KVO 125 EC	KVO 160 EC	KVO 200 EC
Art. no.		*11542*	*11544*	*11545*	*11546*
Voltage	V	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1
Input power (P1)	W	60.4	111	116	123
Current	A	0.483	0.858	0.897	0.956
Max. airflow	m^3/h	312	472	547	868
Fan impeller speed	r.p.m.	2499	2724	2411	2577
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	43.2	47.6	48.4	50.7
Weight	kg	5.6	5.6	6	10.3
Insulation class		B	B	F	B
Enclosure class, motor	IP	44	44	44	44
Max. temperature of transported air	°C	60	60	60	60
* when voltage-controlled	°C	60	60	60	60

KVO EC		KVO 250 EC	KVO 315 EC		
Art. no.		*11547*	*11548*		
Voltage	V	230	230		
Frequency	Hz	50/60	50/60		
Phase	~	1	1		
Input power (P1)	W	312	331		
Current	A	1.91	2.04		
Max. airflow	m^3/h	1501	1901		
Fan impeller speed	r.p.m.	2799	2264		
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	57.4	55.4		
Weight	kg	20.4	25.6		
Insulation class		F	F		
Enclosure class, motor	IP	44	44		
Max. temperature of transported air	°C	60	60		
* when voltage-controlled	°C	60	60		

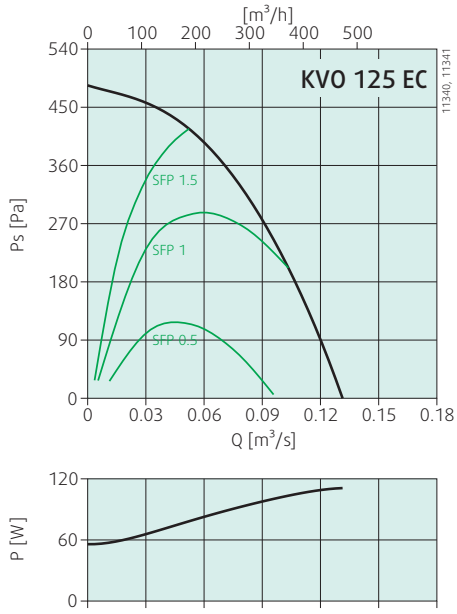


Performance



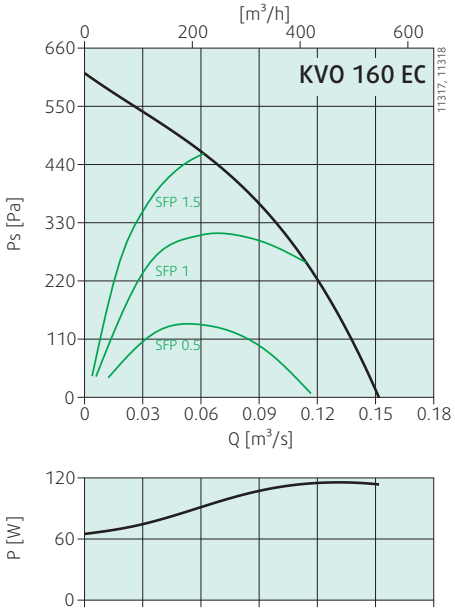
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	53	58	61	59	58	55	51	42
L_{wA} Outlet dB(A)	71	56	65	63	64	65	63	56	46
L_{wA} Surrounding dB(A)	51	19	34	42	42	46	45	38	26

Measurement point: 69.7 l/s; 123 Pa



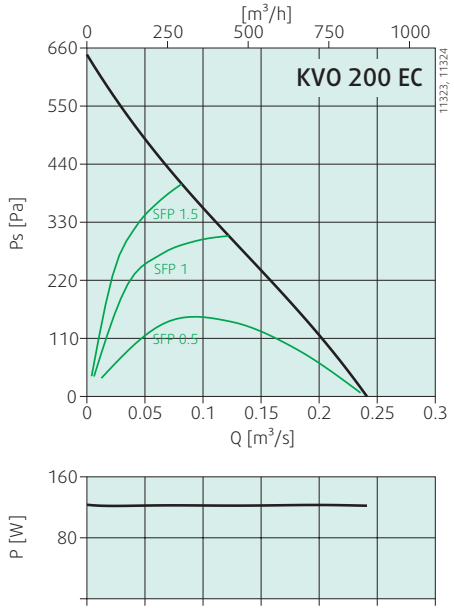
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	58	60	67	64	63	61	57	50
L_{wA} Outlet dB(A)	78	57	70	70	70	72	71	65	58
L_{wA} Surrounding dB(A)	56	33	36	52	48	51	49	42	32

Measurement point: 100 l/s; 222 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	48	67	66	62	60	61	59	53
L_{wA} Outlet dB(A)	74	60	66	68	66	65	67	64	58
L_{wA} Surrounding dB(A)	55	30	45	51	48	48	46	43	36

Measurement point: 118 l/s; 234 Pa

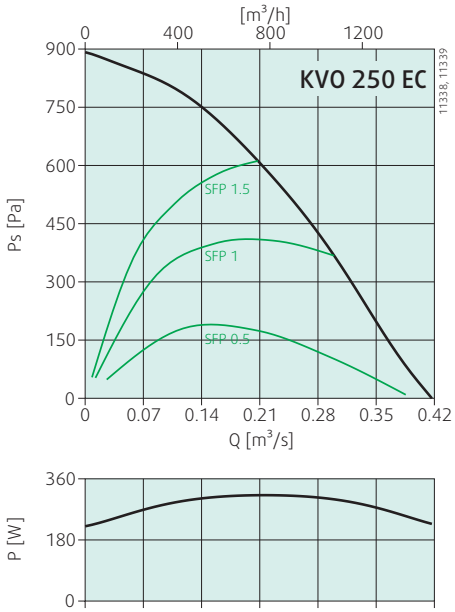


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	52	61	71	67	66	63	58	45
L_{wA} Outlet dB(A)	83	55	64	81	74	74	71	65	51
L_{wA} Surrounding dB(A)	60	32	46	55	54	55	49	41	26

Measurement point: 184 l/s; 157 Pa

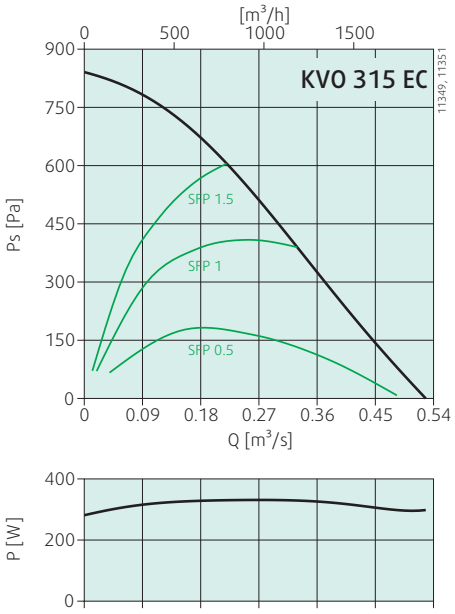


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	60	67	66	71	71	70	68	60
L_{wA} Outlet dB(A)	85	63	72	75	81	78	77	71	63
L_{wA} Surrounding dB(A)	65	42	51	54	63	58	55	51	43

Measurement point: 324 l/s; 286 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	57	73	72	70	69	69	65	56
L_{wA} Outlet dB(A)	85	63	73	82	78	75	73	67	57
L_{wA} Surrounding dB(A)	65	38	55	61	61	55	52	44	35

Measurement point: 388 l/s; 267 Pa

KVO

Circular duct fan



- Low noise level
- Extremely low installation height
- Speed controllable via voltage
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Casing from galvanised steel. Cover with 40 mm mineral wool acoustic and thermal insulation.

Motor
Voltage controllable external rotor motors.

Impeller geometry
A radial impeller with forward curved blades is installed in the KVO 100-160, a radial impeller with backward curved blades is installed in the KVO 200.

Output control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



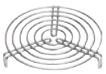
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

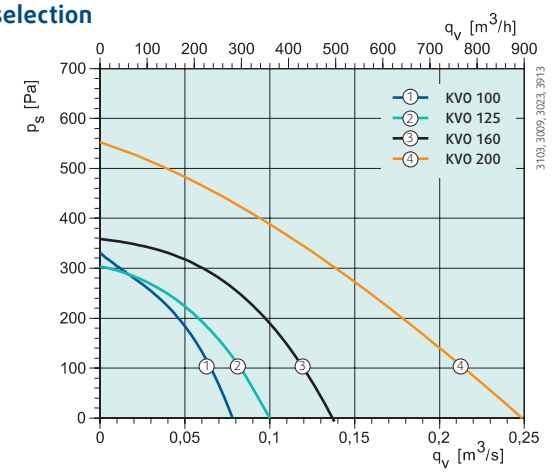


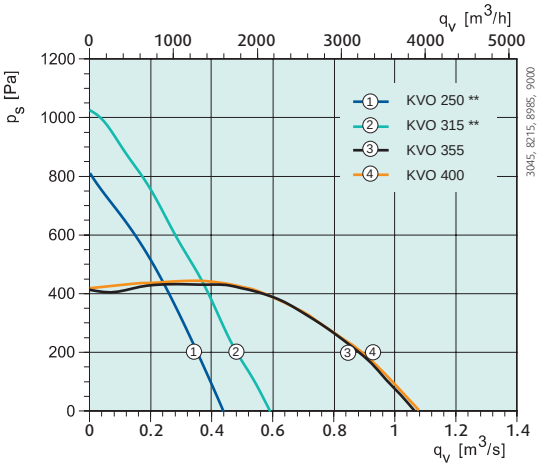
REV
Switching device
Page 510



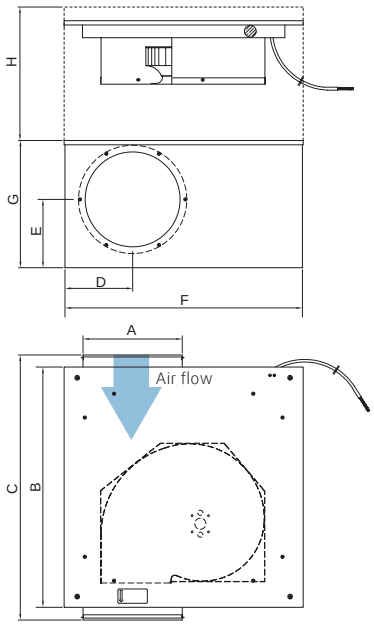
FRQ
Frequency Inverter
Page 490

Quick selection





Dimensions



KVO	A	B	C	D	E	F	G	H
100	100	329	367	69	76	300	150	150
125	125	329	367	84	72	300	150	150
150	150	329	367	94	95	300	185	185
160	160	329	367	99	90	300	185	185
200	200	419	466	123	109	435	220	220
250	250	528	612	151	133	558	270	270
315	315	614	700	183	164	615	344	260
355	355	572	661	209	231	640	425	600
400	400	572	653	221	209	640	425	600

Technical data

KVO		KVO 100	KVO 125	KVO 160	KVO 200
Art. no.		*2075*	*2020*	*2024*	*19527*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	77.9	89	135	141
Current	A	0.346	0.393	0.59	0.624
Max. airflow	m^3/h	280	364	497	896
Fan impeller speed	r.p.m.	2438	2175	2544	2564
Max. temperature of transported air	°C	60	64.1	70	70
* when voltage-controlled	°C	60	64.1	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	39.6	38.4	43.1	50.7
Weight	kg	5.6	5.5	6.7	11.2
Insulation class		B	B	B	F
Enclosure class, motor	IP	44	44	44	44
Capacitor	µF	2	2	4	3.5
Motor protection (1)		Integriert	Integriert	Integriert	Integriert
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)		REE 1	REE 1	REE 1	REE 1

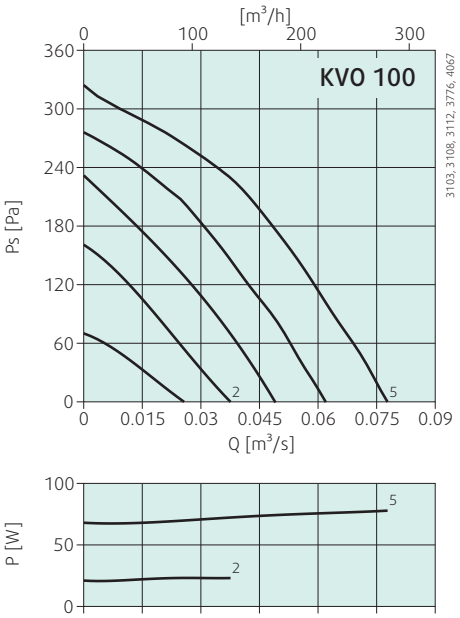
KVO		KVO 250 **	KVO 315 **	KVO 355	KVO 400
Art. no.		*19528*	*19529*	27664	27665
Voltage	V	230	230	400	400
Frequency	Hz	50	50	50	50
Phase	~	1	1	3	3
Input power (P1)	W	301	549	1443	1504
Current	A	1.33	2.38	2.64	2.73
Max. airflow	m^3/h	1501	2131	1058	1067
Fan impeller speed	r.p.m.	2480	2227	1307	1294
Max. temperature of transported air	°C	48.2	47.5	69.5	69.5
*when voltage-controlled	°C	42.6	40.5	69.5	69.5
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	51.9	56.3	54.2	56.4
Weight	kg	19	24.3	38.3	37
Insulation class		F	F	F	F
Enclosure class, motor	IP	44	44	54	554
Capacitor	µF	7	10	-	-
Motor protection (1)		Integriert	Integriert	S-ET 10	S-ET 10
Speed control, five-step (1)	Transf.	RE 1.5	RE 3	RTRE 3	RTRE 3
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 3	REU 3	REU 3
Speed control, stepless (1)		REE 2	REE 4	-	-

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

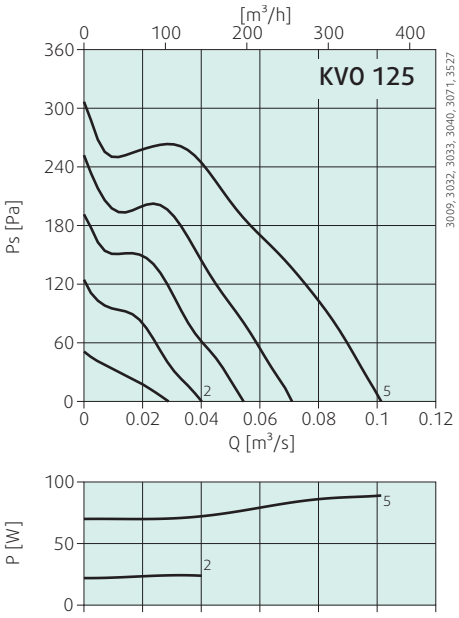


Performance



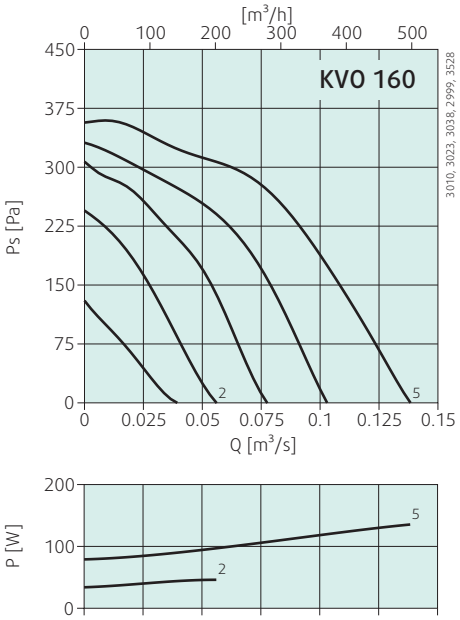
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	47	60	57	55	52	47	43	38
L_{wA} Outlet dB(A)	68	55	61	58	60	63	58	51	45
L_{wA} Surrounding dB(A)	47	21	36	41	39	42	37	28	22

Measurement point: 44.7 l/s; 198.6 Pa



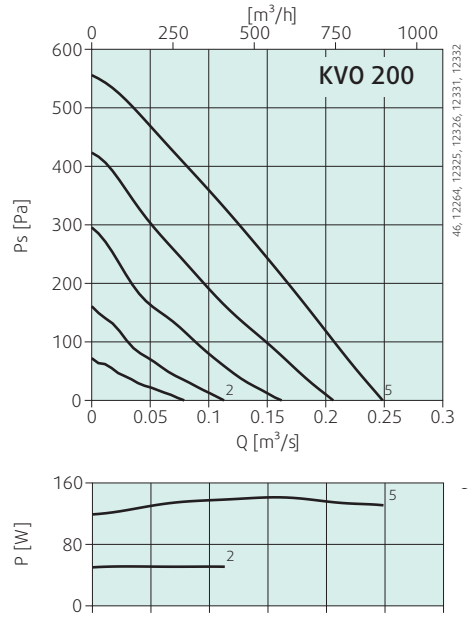
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	44	61	56	58	57	52	49	43
L_{wA} Outlet dB(A)	66	46	56	58	59	61	57	50	39
L_{wA} Surrounding dB(A)	45	19	36	38	38	39	38	33	26

Measurement point: 47.5 l/s; 214.4 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	52	62	63	61	58	57	56	53
L_{wA} Outlet dB(A)	75	55	63	69	67	67	69	63	59
L_{wA} Surrounding dB(A)	50	31	39	45	42	40	41	40	39

Measurement point: 76.7 l/s; 273.4 Pa

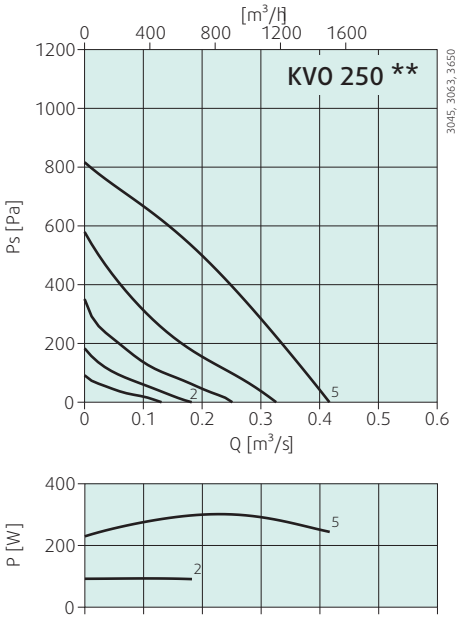


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	46	60	70	65	66	63	58	52
L_{wA} Outlet dB(A)	83	53	62	82	70	70	70	62	56
L_{wA} Surrounding dB(A)	58	29	40	51	51	53	50	41	33

Measurement point: 123.3 l/s; 306.5 Pa

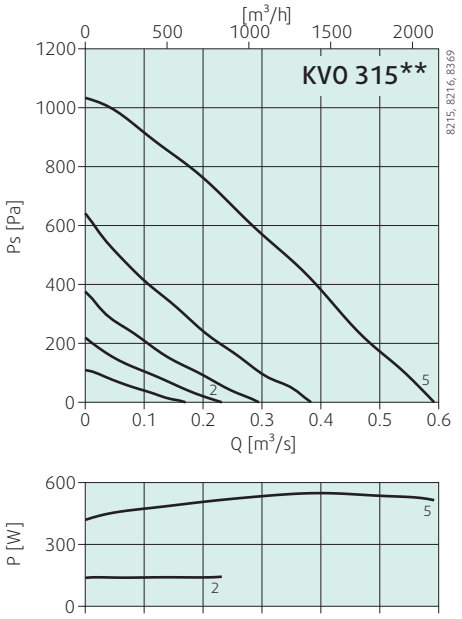


Performance



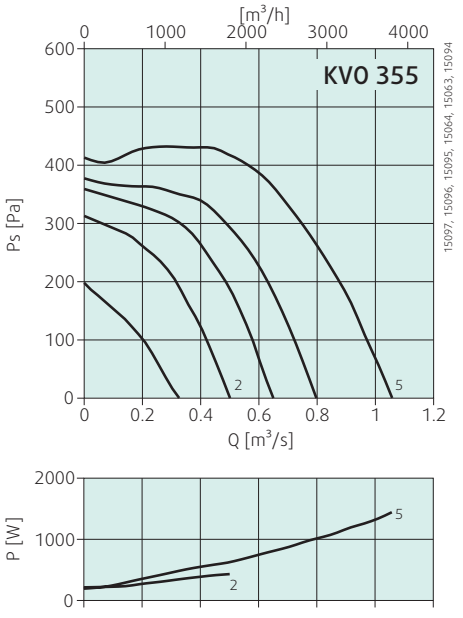
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	55	60	64	68	66	65	61	56
L_{wA} Outlet dB(A)	78	57	60	66	75	71	71	64	59
L_{wA} Surrounding dB(A)	59	37	41	48	57	51	48	42	36

Measurement point: 253.9 l/s; 388.2 Pa



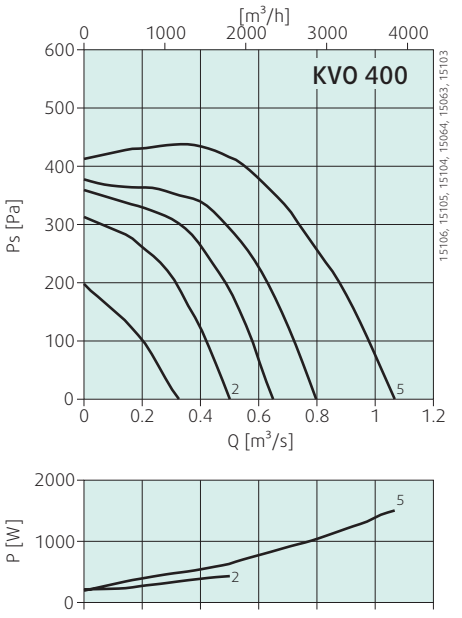
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	55	72	74	69	69	69	62	53
L_{wA} Outlet dB(A)	87	64	74	85	81	77	73	65	57
L_{wA} Surrounding dB(A)	64	40	52	60	60	56	51	41	32

Measurement point: 421 l/s; 334 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	60	74	71	69	70	69	68	63
L_{wA} Outlet dB(A)	84	68	75	75	75	78	75	75	69
L_{wA} Surrounding dB(A)	61	40	55	56	54	53	50	47	43

Measurement point: 490.8 l/s; 419.3 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	57	76	71	71	73	71	70	65
L_{wA} Outlet dB(A)	83	67	74	75	75	78	75	75	69
L_{wA} Surrounding dB(A)	63	39	57	57	57	57	52	49	45

Measurement point: 454.3 l/s; 426 Pa

KD EC

Circular duct fan



- High efficiency across the entire system characteristic field
- High flow rate, yet very compact
- Includes mounting clips for simple installation
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Casing from galvanised sheet steel.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Diagonal impeller: high static pressure, high efficiency, compact dimensions.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue at www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



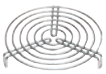
LDC
Silencer
Page 518



CWK
Duct cooler
Page 524



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522

Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Speed control
Page 488

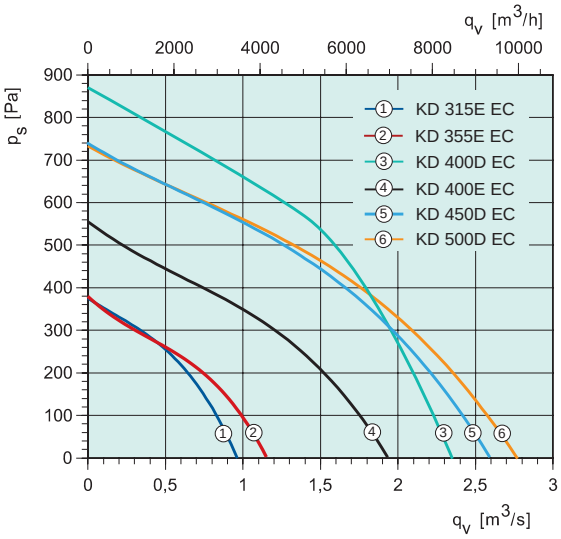


MTV
Speed control
Page 488

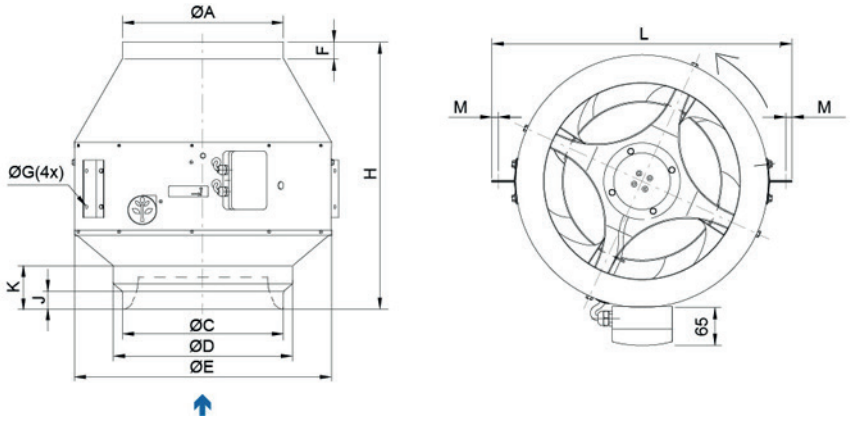


REV
Switching device
Page 510

Quick selection



Dimensions



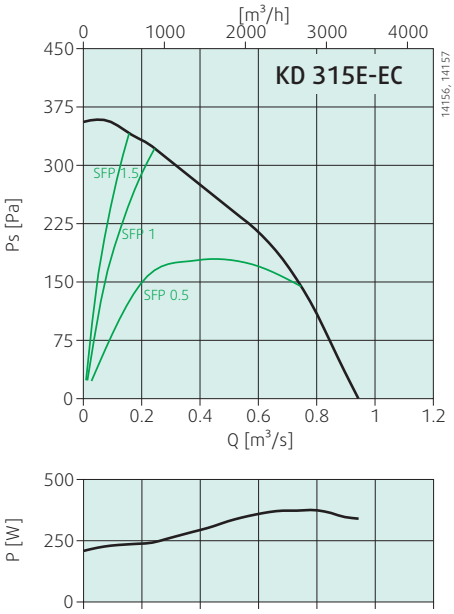
KD EC	A	B	C	D	E	F	G	H	I
KD-EC 315E	315	302	315	355	455	49	10	484	25
KD-EC 355E	355	-	355	400	503	40	10	516	-
KD-EC 400D	400	-	400	450	560	44	12	602	-
KD-EC 400E	400	-	400	450	560	44	12	602	-
KD-EC 450D	450	-	450	500	663	46	12	686	-
KD-EC 500D	500	-	450	500	663	46	12	642	-

Technical data

KD EC		KD 315E-EC	KD 355E-EC	KD 400D-EC	KD 400E-EC
Art. no.		*11549*	*11560*	*11564*	*11561*
Voltage	V	230	230	400	230
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	3	1
Input power (P1)	W	375	437	1915	926
Current	A	1.64	1.92	2.96	4.08
Max. airflow	m^3/h	3395	4136	8460	6962
Fan impeller speed	r.p.m.	1699	1422	1905	1451
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	54.8	57.4	73.9	62
Weight	kg	13	14	22.8	21.6
Insulation class		F	F	F	F
Enclosure class. motor	IP	54	54	54	54
Max. temperature of transported air	°C	40	40	40	40
* when voltage-controlled	°C	60	60	60	60

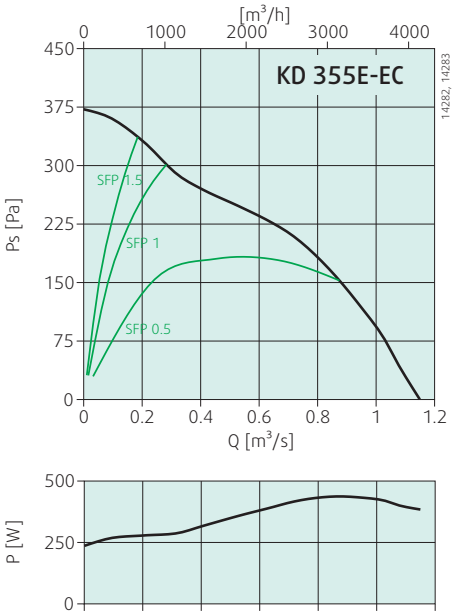
KD EC		KD 450D-EC	KD 500D-EC
Art. no.		*11562*	*11563*
Voltage	V	400	400
Frequency	Hz	50/60	50/60
Phase	~	3	3
Input power (P1)	W	1872	1848
Current	A	2.91	2.83
Max. airflow	m^3/h	9256	9979
Fan impeller speed	r.p.m.	1607	1605
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	69.3	68.1
Weight	kg	28.6	28.2
Insulation class		F	F
Enclosure class. motor	IP	54	54
Max. temperature of transported air	°C	40	40
*when voltage-controlled	°C	60	60

Performance



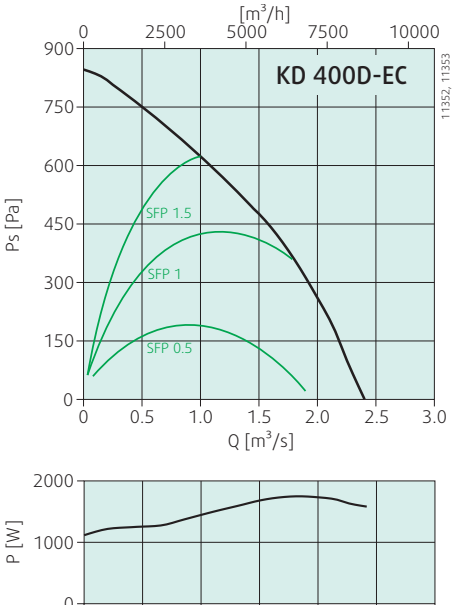
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	57	76	76	75	74	67	62	53
L_{wA} Outlet dB(A)	81	52	77	74	73	73	71	63	54
L_{wA} Surrounding dB(A)	62	17	36	54	57	57	53	42	30

Measurement point: 1560 m³/h; 260 Pa



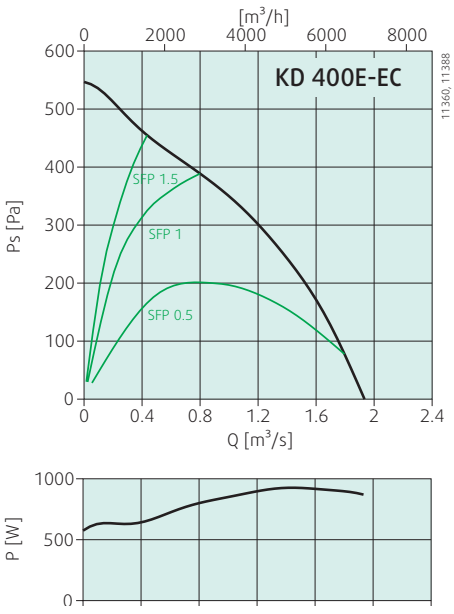
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	60	75	73	72	71	66	61	54
L_{wA} Outlet dB(A)	80	55	74	71	73	74	70	64	58
L_{wA} Surrounding dB(A)	64	27	48	53	62	59	51	46	36

Measurement point: 2289 m³/h; 228 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	64	82	86	87	86	81	75	67
L_{wA} Outlet dB(A)	94	69	83	86	90	89	85	78	71
L_{wA} Surrounding dB(A)	81	33	53	72	77	77	68	60	52

Measurement point: 5064 m³/h; 552 Pa

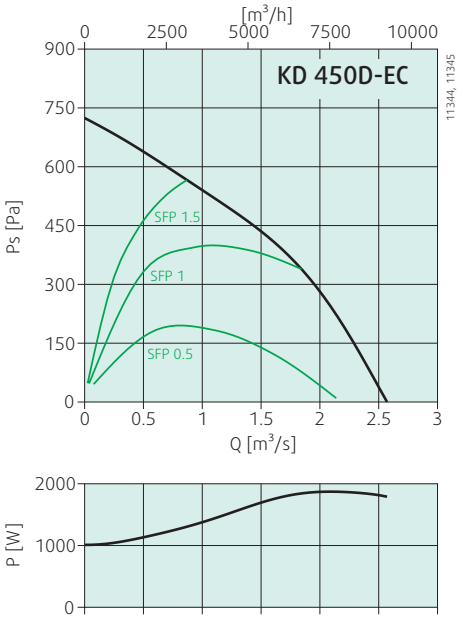


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	57	73	77	78	75	70	67	66
L_{wA} Outlet dB(A)	87	59	78	80	82	81	76	69	62
L_{wA} Surrounding dB(A)	69	24	44	57	67	63	54	48	43

Measurement point: 1553 l/s; 190 Pa

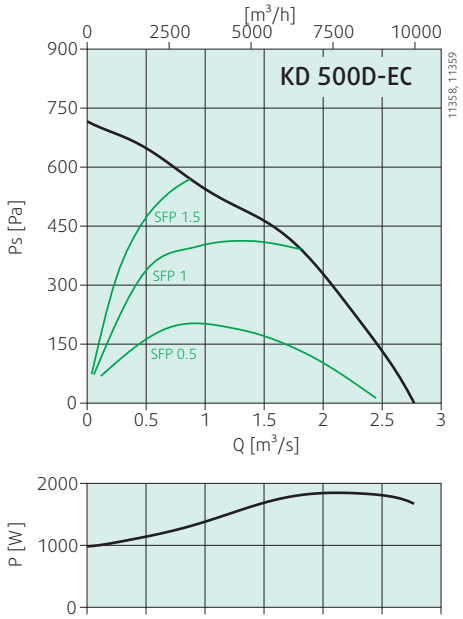


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	89	67	80	83	84	83	79	74	66
L_{wA} Outlet dB(A)	92	63	79	82	87	87	82	77	70
L_{wA} Surrounding dB(A)	77	32	55	71	72	73	67	58	49

Measurement point: 1972 l/s; 293 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	89	65	79	83	83	80	79	74	68
L_{wA} Outlet dB(A)	92	63	80	83	88	88	83	78	72
L_{wA} Surrounding dB(A)	76	32	54	69	71	70	66	55	45

Measurement point: 2149 l/s; 272 Pa

KD

Circular duct fan



- High-efficiency – low noise level
- Speed controllable via voltage reduction using a thyristor or transformer
- Integrated thermal contacts
- Can be installed in any mounting position
- High static pressure with high-efficiency

Casing
Made from seamed and galvanised sheet steel.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Diagonal impeller

Output control
Speed controllable via stepless thyristor or 5-step transformer.

Motor protection
Motor protection with thermal contacts.

You can find more information in our online catalogue on unter www.systemair.com

Accessories



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



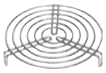
IGC-LI
Intake grid
Page 514



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VBC
Water heating battery
Page 521



VBF
Water heating battery
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VK
Louvre shutter
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VKK
Back draft damper
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Electrical accessories



S-ET
Motor protection
Page 501



REPT
Digital regulator
Page 499



RTRDU
Speed control
Page 486



RTRD /RTRE
Speed control
Page 485



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

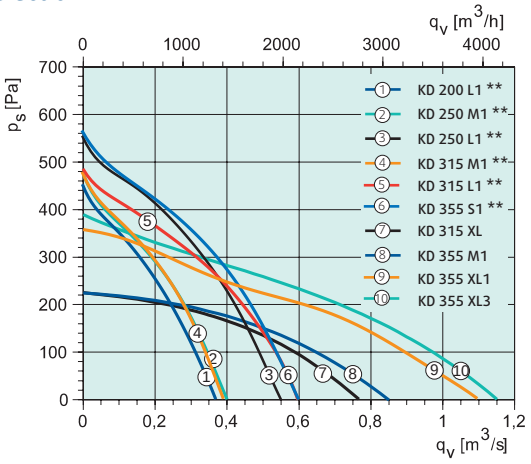


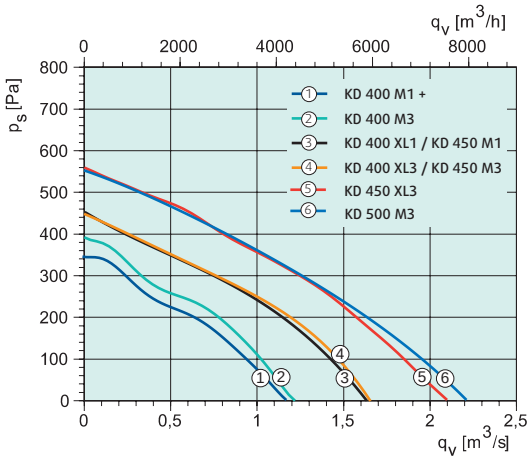
REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490

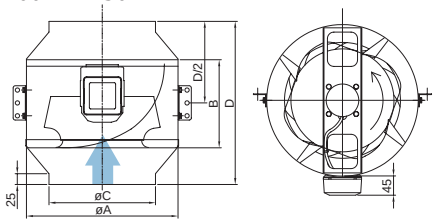
Quick selection



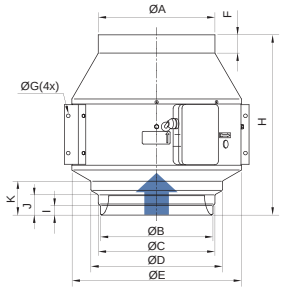


Dimensions

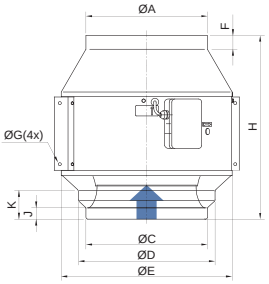
200 L1 - 250 L1

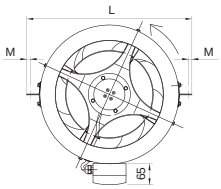


315 XL1 - 355 M1



355 XL - 500 M





KD	ØA	B	ØB	ØC	ØD	D	D/2	ØE	F	ØG	H	I	J	K	L	M
200	313	180	-	198	-	380	190	-	-	-	-	-	-	-	-	-
250	313	180	-	248	-	310	155	-	-	-	-	-	-	-	-	-
315 XL1	315	-	302	315	355	-	-	455	49	10	484	25	53.5	89	540	11
355 M1	355	-	302	315	355	-	-	455	35	10	435	25	53.5	89	540	11
355 XL3	355	-	-	355	400	-	-	503	40	10	516	-	38	97	590	11
400 M3	400	-	-	355	400	-	-	503	40	10	480	-	38	97	590	11
400 XL3	400	-	-	400	450	-	-	560	44	12	602	-	37	94	662	18.5
450 M3	450	-	-	400	450	-	-	560	44	12	559	-	37	94	662	18.5
450XL3	450		-	450	500			660	46	12	686	-	50	121	812	18.5
500M3	500		-	450	500			660	46	12	643	-	50	121	812	18.5

Technical data

KD		KD 200 L1**	KD 250 M1**	KD 250 L1**	KD 315 M1**	KD 315 L1**	KD 355 S1**
Art. no.		*25332*	*25333*	*25334*	*25335*	*25336*	*25337*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1
Input power (P1)	W	257	254	369	252	372	371
Current	A	1.14	1.13	1.6	1.12	1.62	1.61
Max. airflow	m^3/h	1325	1422	1987	1415	2135	2153
Fan impeller speed	r.p.m.	2562	2572	2604	2573	2595	2597
Max. temperature of transported air	°C	55.1	55.1	70	55.1	70	70
*when voltage-controlled	°C	45.9	45.9	70	45.9	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	52.9	53.8	54.6	58.6	54	53.8
Weight	kg	6.8	6.5	9.4	5.5	9	7.9
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44	44
Capacitor	µF	6	6	10	6	10	10
Motor protection (1)		S-ET 10	S-ET 10	Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RTRE 3	RTRE 1.5	RE 3	RE 1.5	RE 3	RE 3
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 3	REU 1.5	REU 3	REU 3
Speed control, stepless (1)		REE 2	REE 2	REE 2	REE 2	REE 2	REE 2

KD		KD 315 XL1	KD 355 M1	KD 355 XL1 +	KD 355 XL3	KD 400 M1 +	KD 400 M3
Art. no.		*1289*	*1292*	*1294*	*1296*	*1297*	*1300*
Voltage	V	230	230	230	400	230	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	3	1	3
Input power (P1)	W	276	275	431	451	432	456
Current	A	1.29	1.3	1.9	0.956	1.9	0.952
Max. airflow	m^3/h	2765	3056	3920	4158	4169	4392
Fan impeller speed	r.p.m.	1375	1375	1309	1399	1307	1397
Max. temperature of transported air	°C	70	70	70	70	70	70
*when voltage-controlled	°C	70	70	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	51.8	49.6	56.2	57.8	53.5	57
Weight	kg	14.2	14	18.6	16.7	18.3	16.3
Insulation class		F	B	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	6	6	10		10	
Motor protection (1)		S-ET 10	S-ET 10	S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step (1)	Transf.	RTRD 2	RTRD 2	RTRD 4	RTRD 4	RTRE 3	RTRD 2
Speed control, five-step high/low (1)	Transf.	RTRDU 2	RTRDU 2	RTRDU 4	RTRDU 4	REU 3	RTRDU 2
Speed control, stepless (1)		REE 2*	REE 2*	REE 4*	-	REE 4*	-

(**/+)Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

(+) expect changes in Technical data / (*) + S-ET 10

Technical data

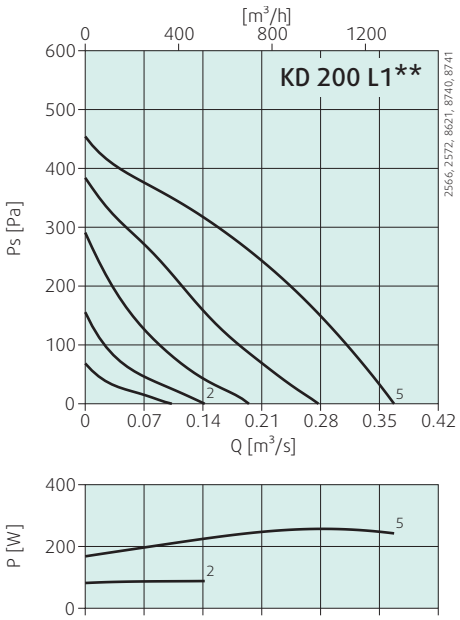
KD		KD 400 XL1	KD 400 XL3	KD 450 M1	KD 450 M3	KD 450 XL3	KD 500 M3
Art. no.		*1301*	*1302*	*1303*	*1304*	*1307*	*1310*
Voltage	V	230	400	230	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	1	3	3	3
Input power (P1)	W	855	792	857	778	1246	1243
Current	A	4.24	1.53	4.21	1.53	2.22	2.2
Max. airflow	m^3/h	5839	5936	5774	5915	7495	7834
Fan impeller speed	r.p.m.	1298	1304	1308	1307	1325	1315
Max. temperature of transported air	°C	64.9	67.4	65.3	70	61	61.6
*when voltage-controlled	°C	64.9	67.4	65.3	70	30.1	50.9
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	63.5	61.1	61.4	63.3	61.4	64.5
Weight	kg	26.5	24	26	23.5	32.5	32
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	16	-	16	-	-	-
Motor protection (1)		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step (1)	Transf.	RTRD 2	RTRD 2	RTRD 4	RTRD 4	RTRD 4	RTRD 4
Speed control, five-step high/low (1)	Transf.	RTRDU 2	RTRDU 2	RTRDU 4	RTRDU 4	RTRDU 4	RTRDU 4
Speed control, stepless (1)		-	-	-	-	-	-

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

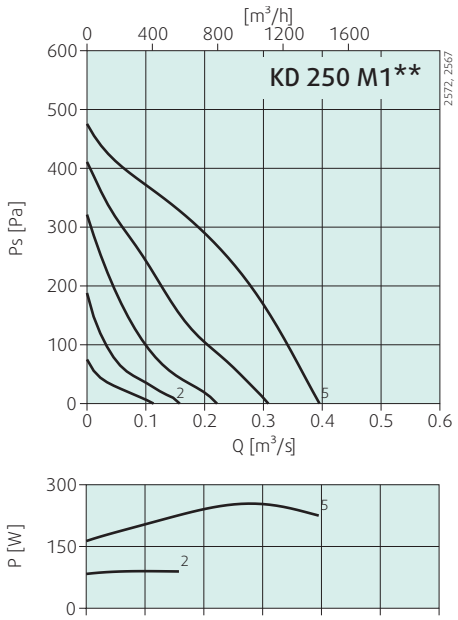


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	57	62	67	76	71	65	65	60
L_{wA} Outlet dB(A)	84	55	63	73	76	77	79	77	75
L_{wA} Surrounding dB(A)	60	24	19	44	56	56	53	49	41

Measurement point: 287 l/s; 139 Pa

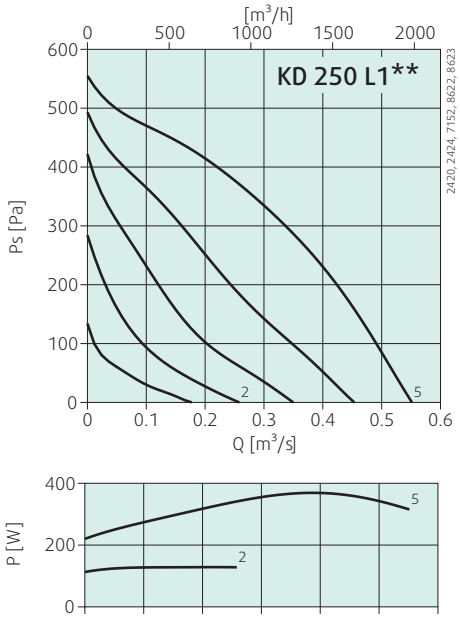


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	54	63	69	76	73	67	66	63
L_{wA} Outlet dB(A)	79	54	67	71	74	74	72	67	60
L_{wA} Surrounding dB(A)	61	21	25	43	57	57	54	51	46

Measurement point: 322 l/s; 133 Pa

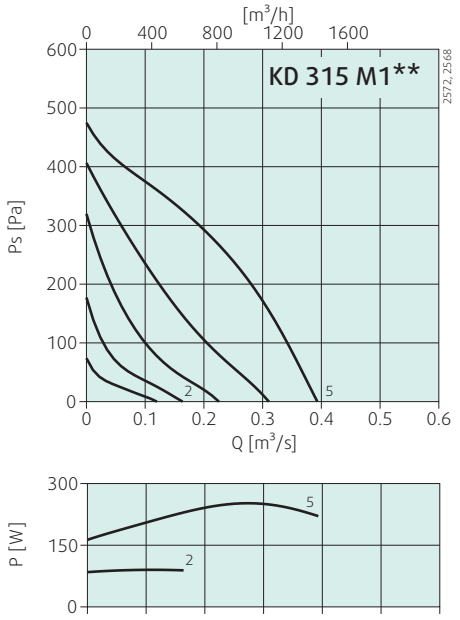


Performance



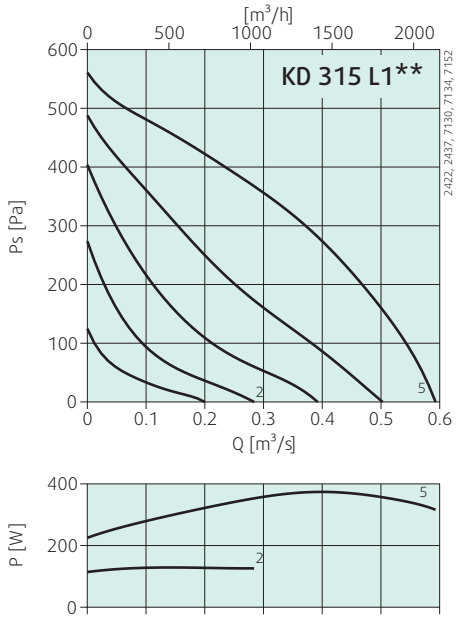
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	54	62	71	79	75	73	73	68
L_{wA} Outlet dB(A)	82	56	61	68	77	75	78	73	68
L_{wA} Surrounding dB(A)	64	26	27	44	64	50	50	52	41

Measurement point: 480 l/s; 117 Pa



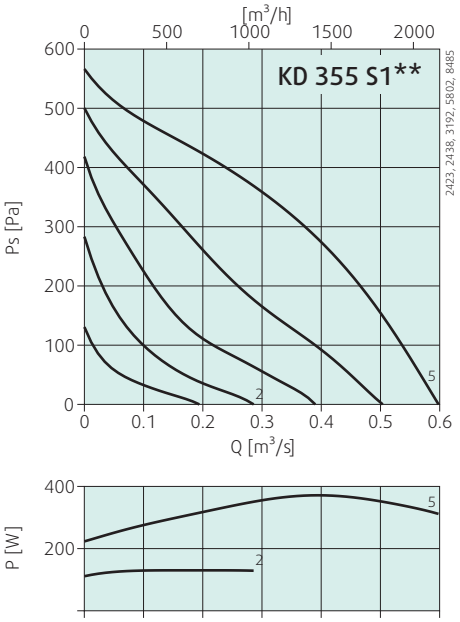
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	53	62	68	76	74	68	67	63
L_{wA} Outlet dB(A)	81	57	68	70	75	76	75	68	61
L_{wA} Surrounding dB(A)	65	32	32	41	65	51	47	45	41

Measurement point: 322 l/s; 136 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	56	59	67	77	76	74	72	70
L_{wA} Outlet dB(A)	83	52	58	66	74	76	79	74	69
L_{wA} Surrounding dB(A)	63	31	27	41	62	51	50	51	43

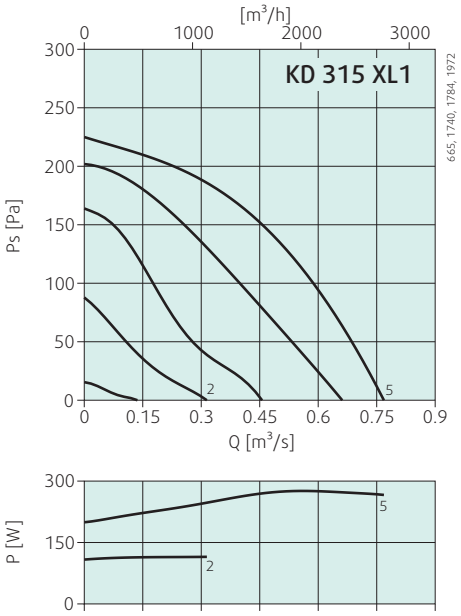
Measurement point: 488 l/s; 175 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	55	59	67	76	76	74	73	71
L_{wA} Outlet dB(A)	84	56	59	65	77	79	80	75	70
L_{wA} Surrounding dB(A)	63	30	27	41	61	52	51	51	44

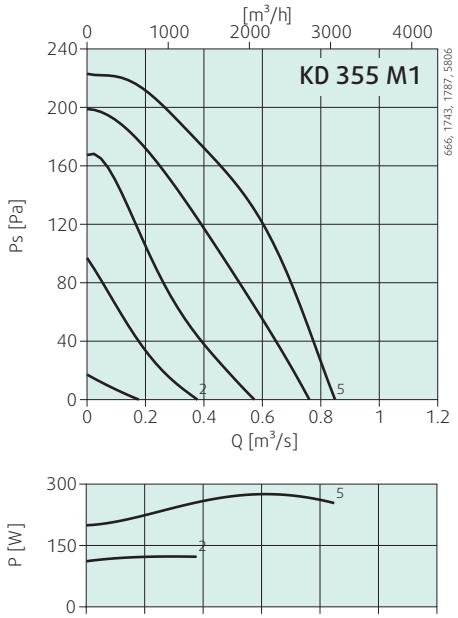
Measurement point: 506 l/s; 145 Pa

Performance



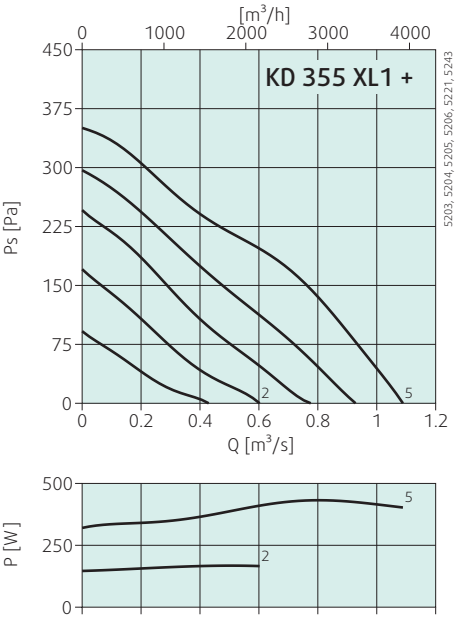
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	57	63	68	68	68	62	57	46
L_{wA} Outlet dB(A)	75	53	69	66	66	69	66	57	47
L_{wA} Surrounding dB(A)	59	27	43	51	51	55	52	39	27

Measurement point: 710 l/s; 36.3 Pa



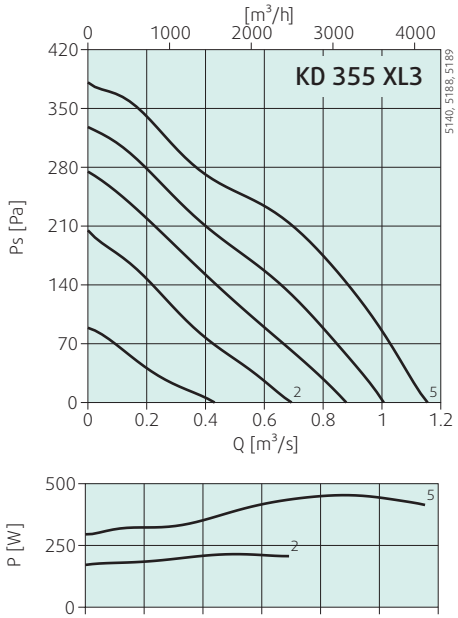
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	62	65	68	66	66	62	57	48
L_{wA} Outlet dB(A)	76	57	70	67	68	70	67	58	50
L_{wA} Surrounding dB(A)	57	40	40	48	51	53	50	39	29

Measurement point: 775 l/s; 40 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	52	71	71	68	65	62	62	54
L_{wA} Outlet dB(A)	76	47	71	69	70	68	65	64	58
L_{wA} Surrounding dB(A)	63	23	45	60	58	53	47	48	41

Measurement point: 811 l/s; 131 Pa

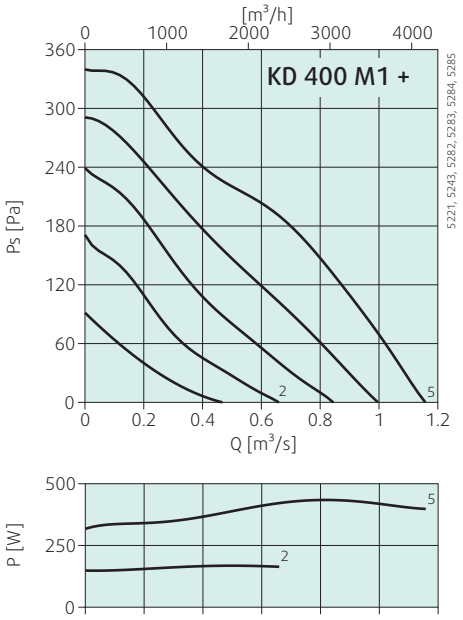


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	52	73	72	70	66	63	64	56
L_{wA} Outlet dB(A)	78	48	72	71	71	69	67	67	60
L_{wA} Surrounding dB(A)	64	26	49	60	59	57	52	52	41

Measurement point: 889 l/s; 138 Pa

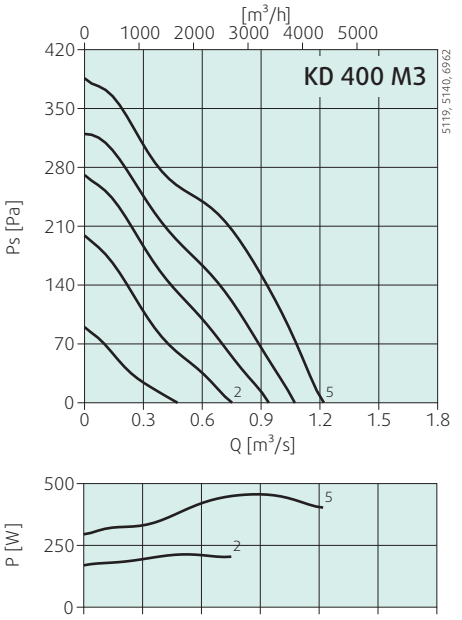


Performance



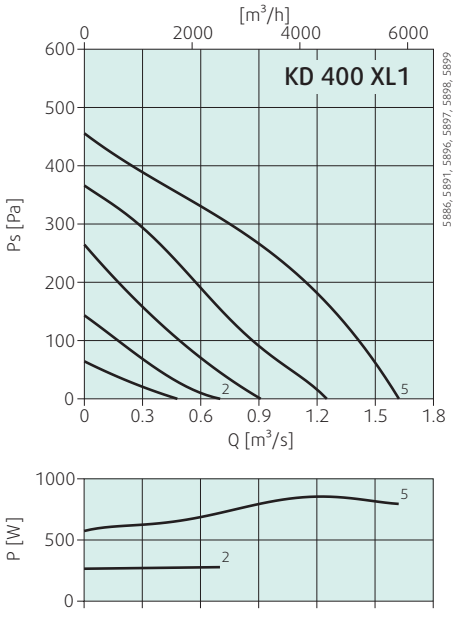
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	50	69	71	68	63	61	62	53
L_{wA} Outlet dB(A)	76	46	69	69	70	68	65	66	57
L_{wA} Surrounding dB(A)	60	25	41	55	56	51	46	47	38

Measurement point: 899 l/s; 110 Pa



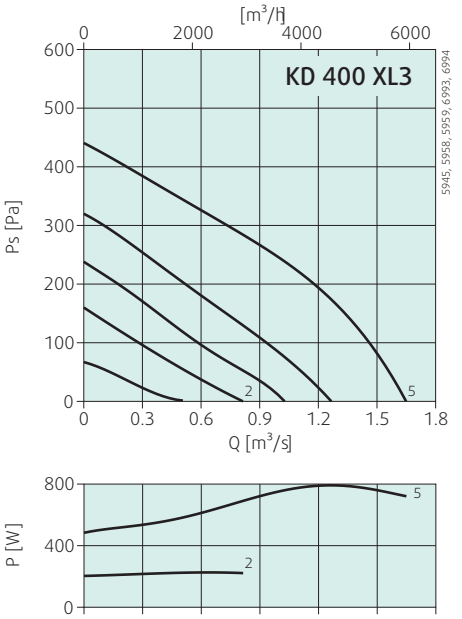
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	51	70	70	69	66	63	64	55
L_{wA} Outlet dB(A)	77	47	69	70	71	70	67	67	59
L_{wA} Surrounding dB(A)	63	21	42	59	57	55	50	50	43

Measurement point: 964 l/s; 126 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	50	75	77	76	71	69	68	57
L_{wA} Outlet dB(A)	83	51	76	77	77	74	72	71	59
L_{wA} Surrounding dB(A)	69	16	57	63	66	58	55	54	39

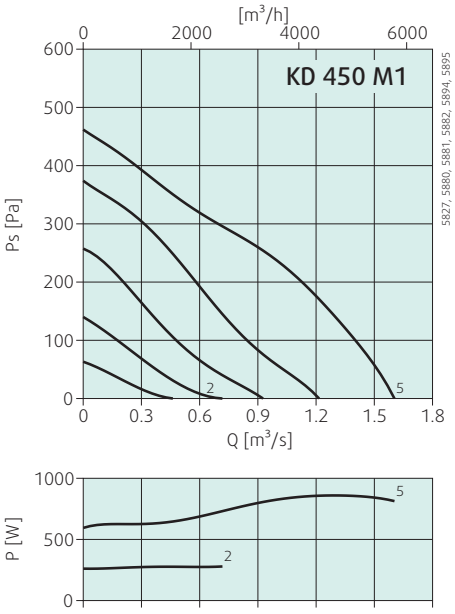
Measurement point: 1239 l/s; 168 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	49	75	75	75	70	68	67	56
L_{wA} Outlet dB(A)	83	53	76	77	77	74	71	71	59
L_{wA} Surrounding dB(A)	67	15	41	60	64	60	53	53	40

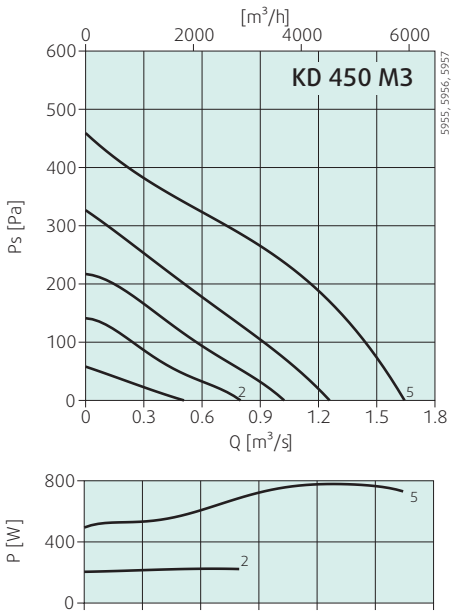
Measurement point: 1223 l/s; 187 Pa

Performance



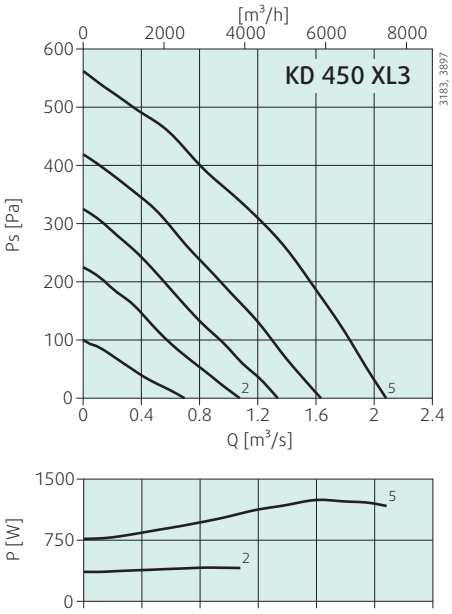
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	53	74	78	76	69	70	69	58
L_{wA} Outlet dB(A)	82	49	72	75	78	75	71	70	61
L_{wA} Surrounding dB(A)	68	21	45	67	60	56	56	54	43

Measurement point: 1211 l/s; 172 Pa



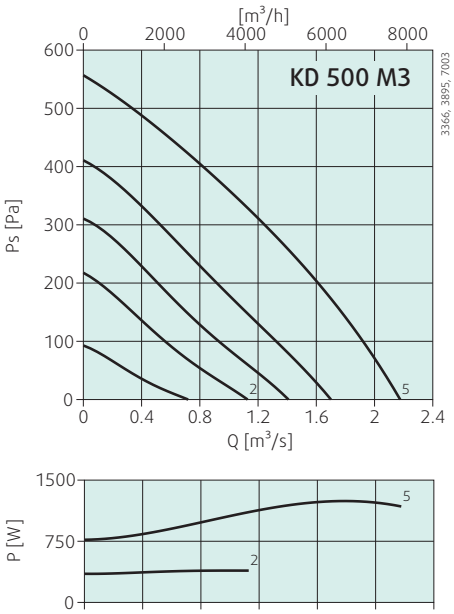
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	51	75	77	76	69	70	71	58
L_{wA} Outlet dB(A)	84	51	74	75	79	76	73	74	61
L_{wA} Surrounding dB(A)	71	14	44	69	65	59	55	55	41

Measurement point: 1301 l/s; 155 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	84	62	75	78	78	77	73	67	59
L_{wA} Outlet dB(A)	86	59	75	77	82	80	75	69	62
L_{wA} Surrounding dB(A)	68	32	47	60	61	65	60	47	39

Measurement point: 1606 l/s; 184 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	64	75	78	77	75	72	67	58
L_{wA} Outlet dB(A)	86	61	76	76	81	80	75	69	62
L_{wA} Surrounding dB(A)	71	24	45	63	66	66	62	56	50

Measurement point: 1599 l/s; 204 Pa



Reference: Poulevard Office Park, Cape Town, South Africa

KVK

Circular duct fan



- Low noise level, for noise-sensitive applications
- Integrated thermal contacts
- Compact design
- Comprehensive range of accessories
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Casing from galvanised steel. 50 mm rockwool acoustic and thermal insulation with a internal surface liner which prevents the migration of fibres into the airstream.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with forward curved blades.

Output control
Speed controllable via voltage reduction using a thyristor or transformer.

Motor protection
With integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on www.systemair.com

Accessories



CBM
Duct heater
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FFR
Filter cassette
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FGR
Filter cassette
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FK
Fast clamp
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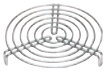
IGC-LI
Intake grid
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LDC
Silencer
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RSK
Back draft damper
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SG
Protection guard
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VBC / VBF
Water heating battery
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VK
Louvre shutter
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Electrical accessories



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Motor protection
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Digital regulator
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RTRDU
Speed control
Page 486



RTRD /RTRE
Speed control
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RE / REU
Speed control
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REE
Speed control
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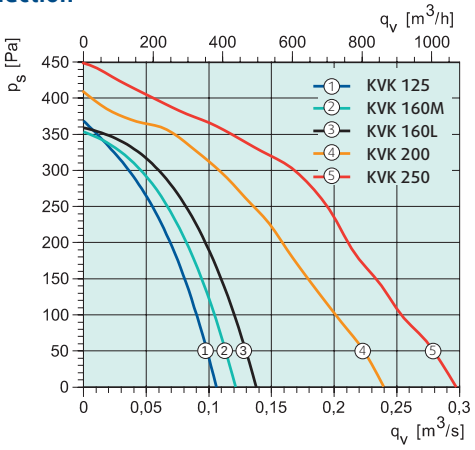


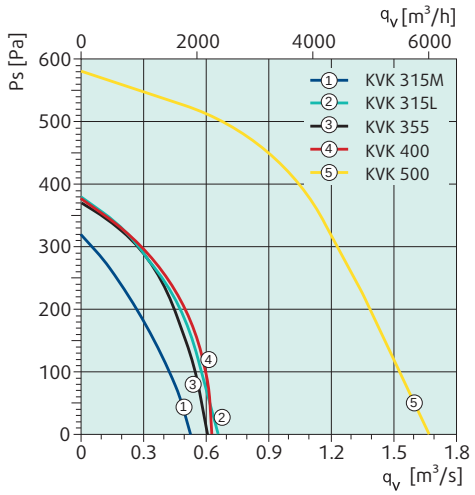
REV
Switching device
Page 510



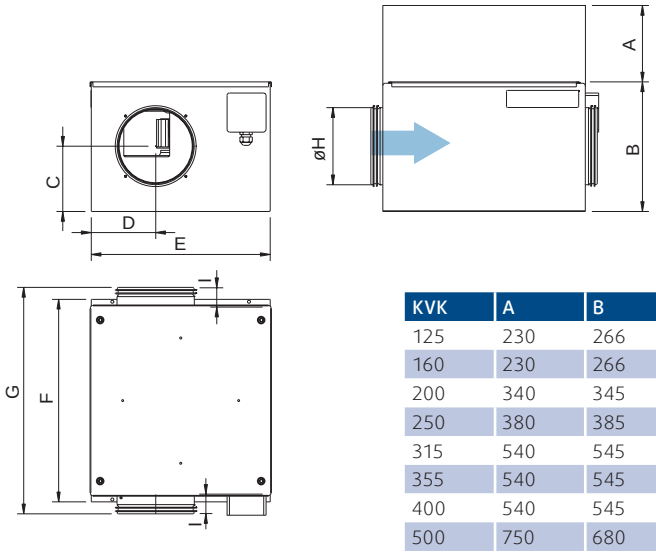
FRQ
Frequency Inverter
Page 490

Quick selection





Dimensions



KVK	A	B	C	D	E	F	G	øH	I
125	230	266	151	114	367	415	464	125	40
160	230	266	134	132	367	415	464	160	40
200	340	345	191	193	395	395	440	200	20
250	380	385	198	228	460	400	490	250	40
315	540	545	328	256	520	570	655	315	40
355	540	545	328	256	520	570	655	355	40
400	540	545	628	256	520	570	680	400	50
500	750	680	400	355	710	718	850	500	80

Technical data

KVK		KVK 125	KVK 160 M	KVK 160 L	KVK 200	KVK 250
Art. no.		*2430*	*2433*	*2434*	*27427*	*27428*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	92.7	111	134	191	266
Current	A	0.409	0.48	0.59	0.837	1.18
Max. airflow	m^3/h	382	443	497	857	1037
Fan impeller speed	r.p.m.	1978	2062	2519	2422	1846
Max. temperature of transported air	°C	68	70	70	70	40.7
*when voltage-controlled	°C	68	70	70	70	40.7
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	38.1	38.8	39.1	39.4	40.2
Weight	kg	11	11.3	11.8	14.6	16.1
Insulation class		B	B	B	F	F
Enclosure class, motor	IP	44	44	44	IP44	44
Capacitor	µF	2	2	4	4	4
Motor protection (1)		integral	integral	integral	S-ET 10	S-ET 10
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5*	REU 1.5*
Speed control, stepless (1)		REE 1	REE 1	REE 1	REE 1*	REE 2*

KVK		KVK 315M	KVK 315 L	KVK 355	KVK 400	KVK 500
Art. no.		*27429*	*27608*	*27609*	*27619*	*27987*
Voltage	V	230	230	230	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	3
Input power (P1)	W	268	448	482	485	1468
Current	A	1.18	1.96	2.1	2.15	3.39
Max. airflow	m^3/h	504	2315	2228	2243	1669
Fan impeller speed	r.p.m.	1230	1072	1003	912	1370
Max. temperature of transported air	°C	70	49.2	38.7	40	70
* when voltage-controlled	°C	70	49.2	38.7	40	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	39.5	38.4	44.3	39.2	50.9
Weight	kg	33.2	32.4	32.7	32.4	72
Insulation class		B	B	B	B	F
Enclosure class, motor	IP	54	22	22	22	54
Capacitor	µF	8	-	14	14	-
Motor protection (1)		S-ET 10	S-ET 10	S-ET 10	S-ET 10	S-ET 10
Speed control, five-step (1)	Transf.	RTRE 3	RTRE 3	RTRE 3	RTRE 3	RTRE 7
Speed control, five-step high/low (1)	Transf.	REU 3*	REU 3*	REU 3*	REU 3*	REU 7*
Speed control, stepless (1)		REE 2*	REE 4*	REE 4*	REE 4*	-

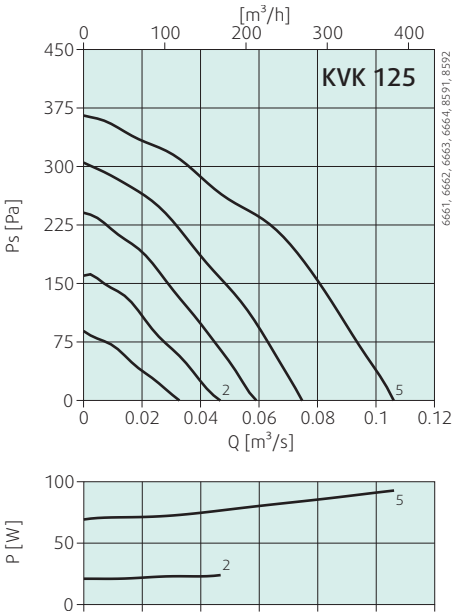
(*) + S-ET 10

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

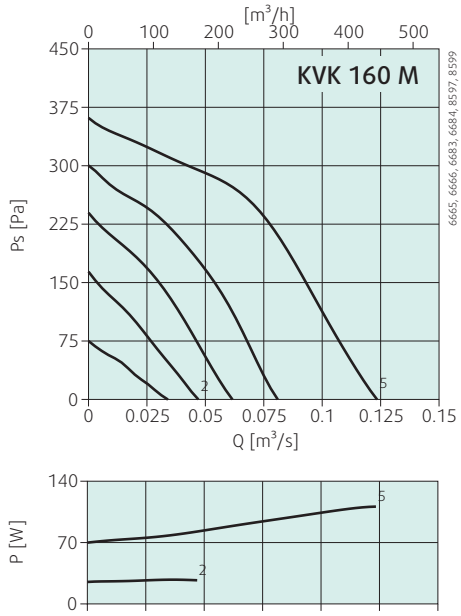


Performance



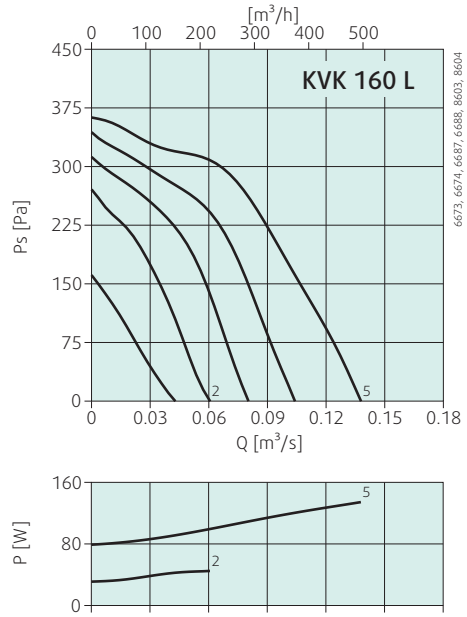
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	57	36	55	50	46	42	35	33	28
L_{wA} Outlet dB(A)	70	52	62	59	62	66	57	52	47
L_{wA} Surrounding dB(A)	46	18	34	41	43	35	31	22	15

Measurement point: 83.1 l/s; 137 Pa



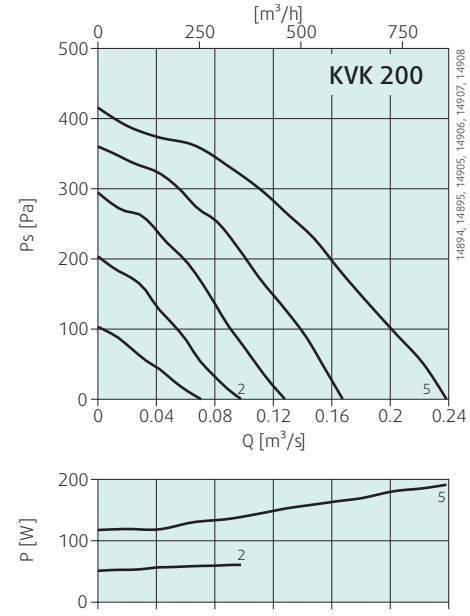
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	41	62	53	49	45	42	39	35
L_{wA} Outlet dB(A)	73	55	65	64	66	68	65	58	52
L_{wA} Surrounding dB(A)	46	12	43	38	39	39	28	24	21

Measurement point: 93.1 l/s; 150 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	44	64	56	53	48	46	44	41
L_{wA} Outlet dB(A)	77	62	67	69	71	71	70	64	59
L_{wA} Surrounding dB(A)	49	19	45	42	43	37	31	27	21

Measurement point: 104 l/s; 163 Pa

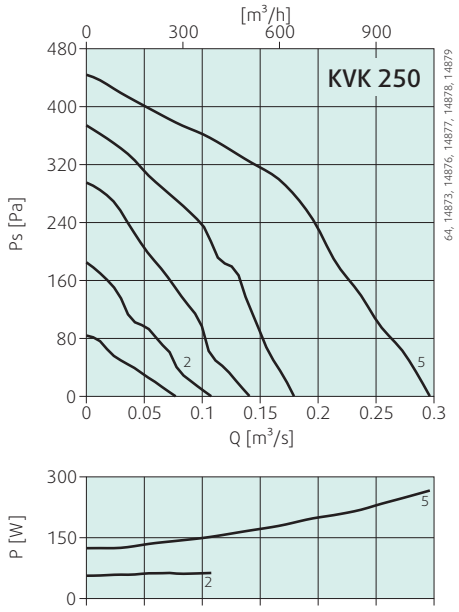


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	54	58	56	53	45	47	41	38
L_{wA} Outlet dB(A)	74	58	65	63	67	68	67	64	58
L_{wA} Surrounding dB(A)	46	34	36	40	41	36	39	32	25

Measurement point: 113.6 l/s; 294.9 Pa:

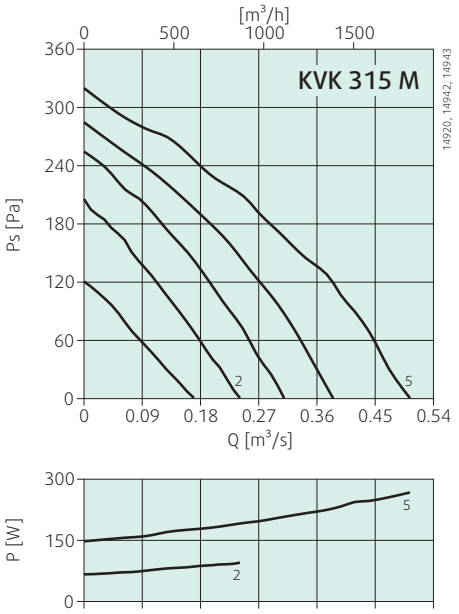


Performance



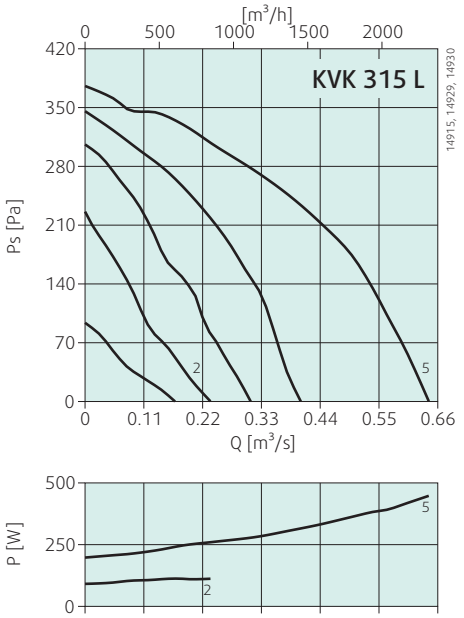
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	59	59	60	55	52	51	46	39
L_{wA} Outlet dB(A)	76	60	70	66	68	70	69	65	59
L_{wA} Surrounding dB(A)	47	37	36	44	39	37	38	32	23

Measurement point: 167.2 l/s; 298.3 Pa



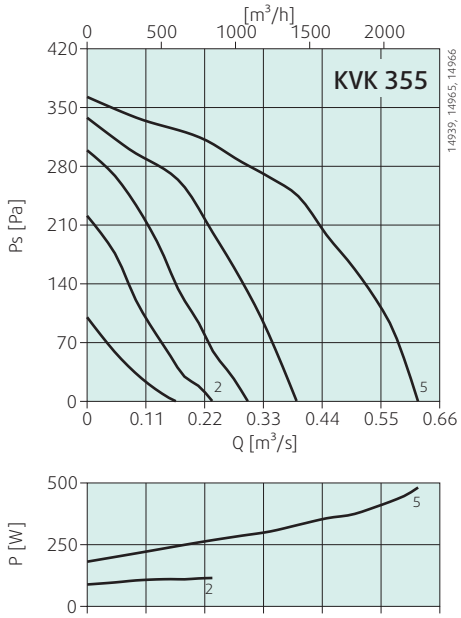
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	49	59	54	43	43	41	37	34
L_{wA} Outlet dB(A)	70	58	62	59	63	65	62	58	52
L_{wA} Surrounding dB(A)	46	32	38	44	36	35	31	27	20

Measurement point: 252 l/s; 205 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	47	63	54	49	54	53	51	47
L_{wA} Outlet dB(A)	73	60	66	62	65	67	65	62	57
L_{wA} Surrounding dB(A)	51	33	49	42	41	42	42	35	28

Measurement point: 340.5 l/s; 267 Pa

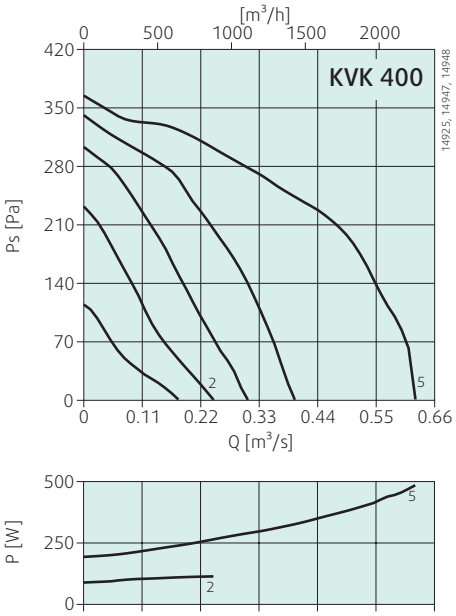


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	47	63	54	49	54	53	51	47
L_{wA} Outlet dB(A)	73	60	66	62	65	67	65	62	57
L_{wA} Surrounding dB(A)	51	33	49	42	41	42	42	35	28

Measurement point: 340.5 l/s; 267 Pa

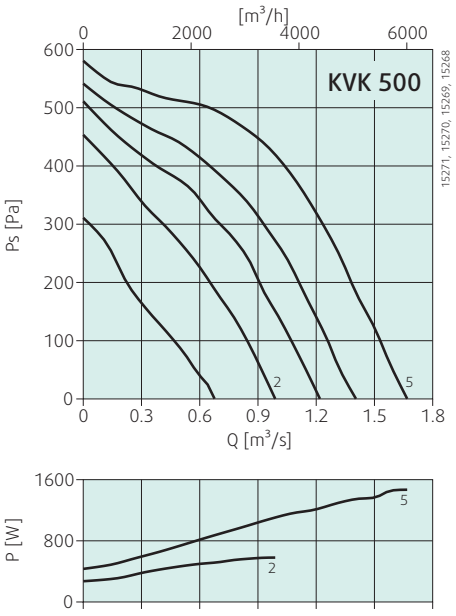


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	50	64	54	48	50	48	45	43
L_{wA} Outlet dB(A)	73	61	65	61	65	67	65	61	57
L_{wA} Surrounding dB(A)	46	27	41	40	40	36	33	31	23

Measurement point: 340.4 l/s; 266 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	57	70	59	58	59	58	56	51
L_{wA} Outlet dB(A)	80	69	71	68	71	75	72	71	65
L_{wA} Surrounding dB(A)	58	33	55	52	48	44	45	46	37

Measurement point: 825 l/s; 466.3 Pa



Reference: Mercedes-Benz Arena, Stuttgart, Germany

KVK DUO

Circular duct fan



- Low noise level, for noise-sensitive applications
- Integrated thermal contacts
- Compact design
- Comprehensive range of accessories
- Vibration-free connection to the duct system with FK fast clamp (accessories)
- Twin fan

Casing
Casing from galvanised steel. 50 mm rockwool acoustic and thermal insulation with a internal surface liner which prevents the migration of fibres into the airstream.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Double inlet centrifugal impeller with forward curved blades.

Output control
Speed controllable via voltage reduction using a thyristor or transformer.

Motor protection
With integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on www.systemair.com

Accessories



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Duct heater
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FFR
Filter cassette
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FGR
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FK
Fast clamp
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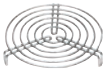
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REE
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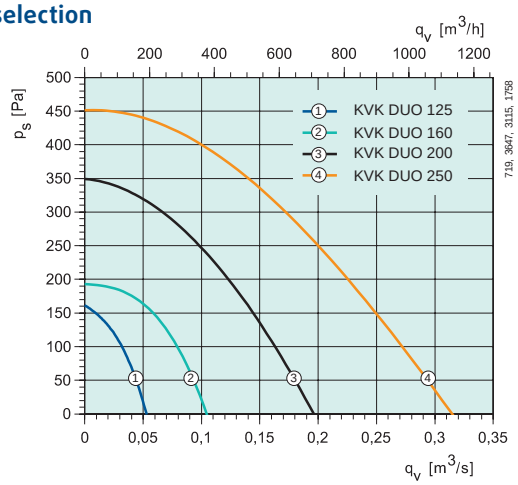


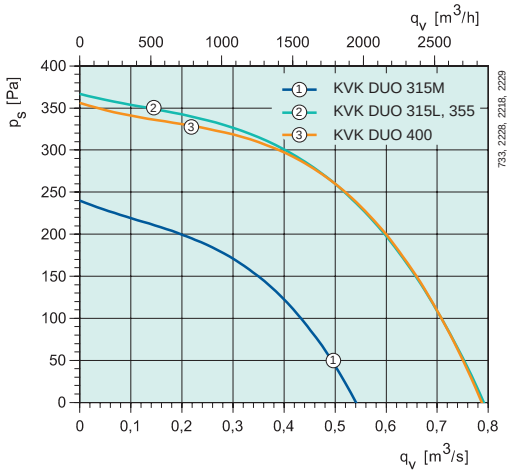
REV
Switching device
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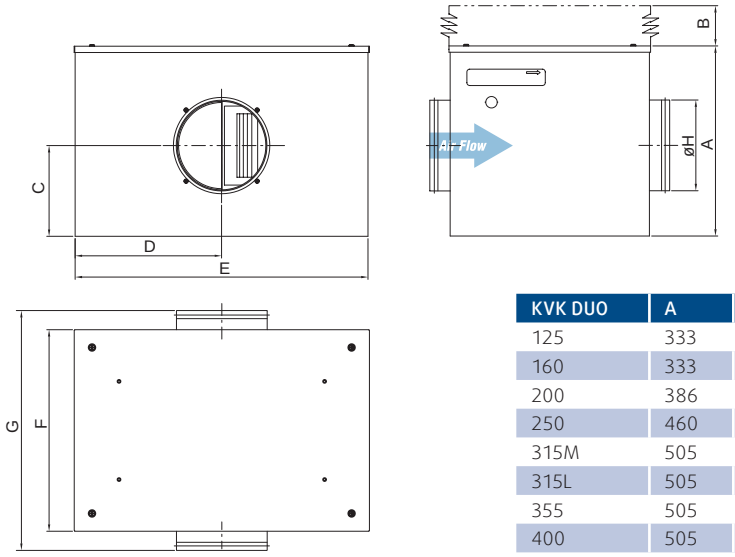
FRQ
Frequency Inverter
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Quick selection





Dimensions



KVK DUO	A	B	C	D	E	F	G	øH
125	333	275	165	255	510	350	425	125
160	333	275	165	255	510	350	425	160
200	386	325	190	300	600	400	475	200
250	460	400	207	360	720	500	615	250
315M	505	450	250	473	946	565	680	315
315L	505	450	250	473	946	565	680	315
355	505	450	250	473	946	565	680	355
400	505	450	250	473	946	565	680	400

Technical data

KVK DUO		KVK DUO 125	KVK DUO 160	KVK DUO 200	KVK DUO 250
Art. no.		*5341*	*5127*	*27792*	*27793*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	41.4	69.1	191	266
Current	A	0.171	0.301	0.837	1.18
Max. airflow	m^3/h	190	378	857	1037
Fan impeller speed	r.p.m.	1724	1943	2422	1846
Max. temperature of transported air	°C	64.9	55	70	40.7
*when voltage-controlled	°C	64.9	55	70	40.7
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	28.8	37.3	39.4	40.2
Weight	kg	17.8	19	29.2	39.8
Insulation class		B	F	F	F
Enclosure class. motor	IP	44	44	44	44
Capacitor	µF	1.5	2	4	4
Motor protection [1]		AWE-SK	AWE-SK	S-ET 10	S-ET 10
Speed control. five-step [1]	Transf.	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5
Speed control. five-step high/low [1]	Transf.	REU 1.5 **	REU 1.5 **	REU 1.5 *	REU 1.5 *
Speed control. stepless [1]		REE 1 **	REE 1 **	REE 1 *	REE 2 *

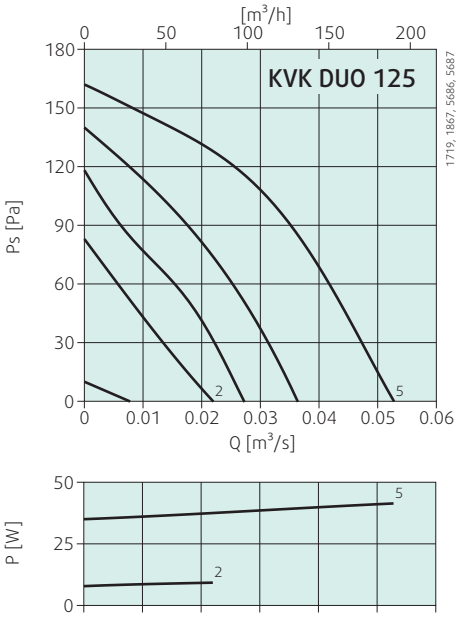
KVK DUO		KVK DUO 315M	KVK DUO 315L	KVK DUO 400	
Art. no.		*27794*	*27795*	*27797*	
Voltage	V	230	230	230	
Frequency	Hz	50	50	50	
Phase	~	1	1	1	
Input power (P1)	W	268	448	485	
Current	A	1.18	1.96	2.15	
Max. airflow	m^3/h	1814	2315	2243	
Fan impeller speed	r.p.m.	1230	1072	912	
Capacitor	µF	8	14	14	
Weight	kg	68	68.2	71.7	
Max. temperature of transported air	°C	70	49.2	40	
*when voltage-controlled	°C	70	49.2	40	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	39.5	38.4	39	
Insulation class		B	B	B	
Enclosure class, motor	IP	IP22	22	22	
Motor protection [1]		S-ET 10	S-ET 10	S-ET 10	
Speed control, five-step [1]	Transf.	RTRE 3	RTRE 3	RTRE 3	
Speed control, five-step high/low [1]	Transf.	REU 3 *	REU 3 *	REU 3 *	
Speed control, stepless [1]		REE 2 *	REE 4 *	REE 4 *	

* + S-ET 10 / ** + AWE-SK

[1] Systemair recommendation. More alternatives can be found on page 478.

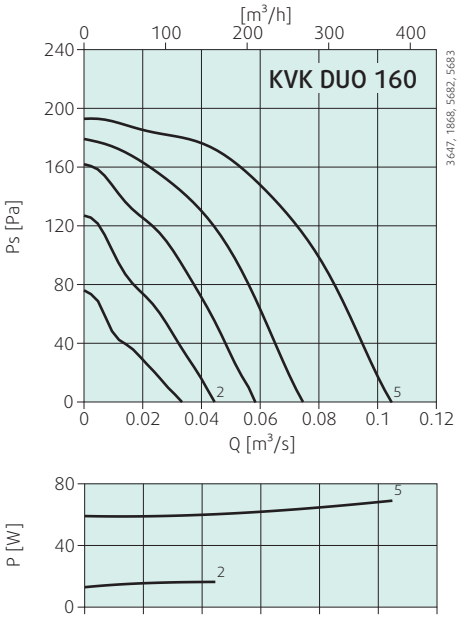


Performance



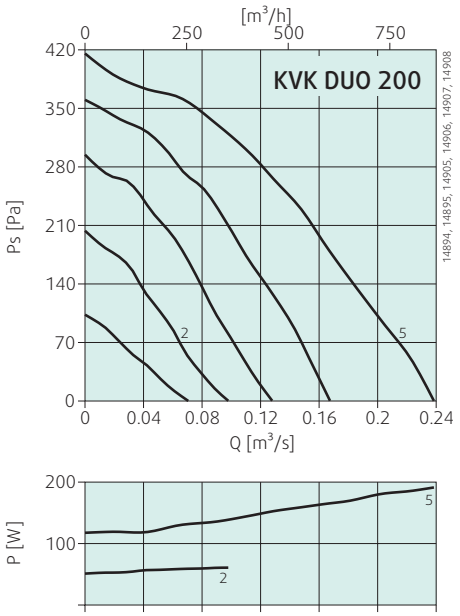
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	52	49	47	41	40	38	33	26	25
L_{wA} Outlet dB(A)	61	46	53	53	54	53	53	46	38
L_{wA} Surrounding dB(A)	36	30	32	24	25	26	17	18	19

Measurement point: 28.1 l/s; 113.6 Pa



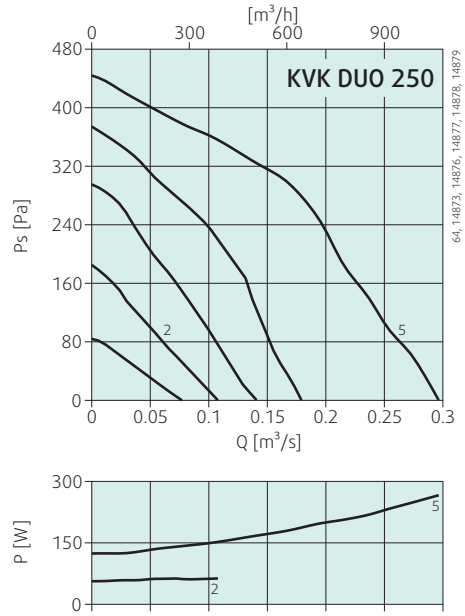
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	59	39	56	55	52	45	39	33	26
L_{wA} Outlet dB(A)	68	49	57	62	64	60	59	54	48
L_{wA} Surrounding dB(A)	44	6	32	42	40	30	22	20	12

Measurement point: 60 l/s; 147.9 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	54	58	56	53	45	47	41	38
L_{wA} Outlet dB(A)	74	58	65	63	67	68	67	64	58
L_{wA} Surrounding dB(A)	46	34	36	40	41	36	39	32	25

Measurement point: 113.6 l/s; 294.9 Pa

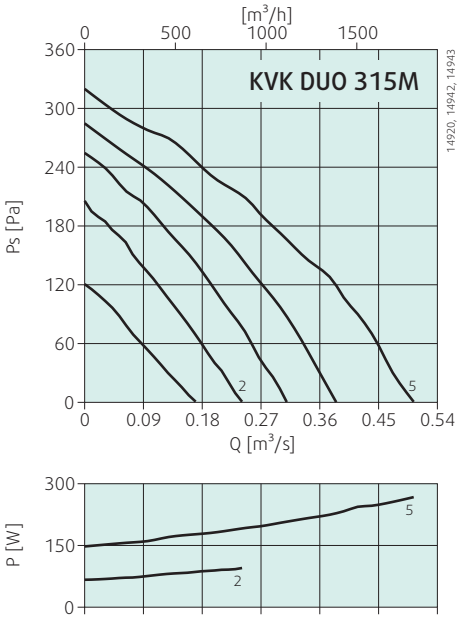


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	59	59	60	55	52	51	46	39
L_{wA} Outlet dB(A)	76	60	70	66	68	70	69	65	59
L_{wA} Surrounding dB(A)	47	37	36	44	39	37	38	32	23

Measurement point: 167.2 l/s; 298.3 Pa

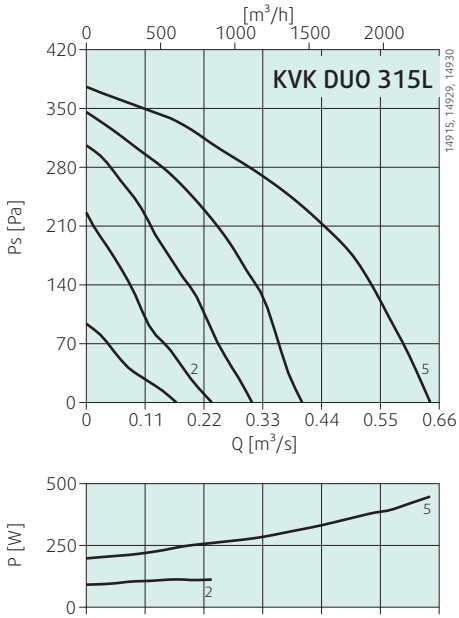


Performance



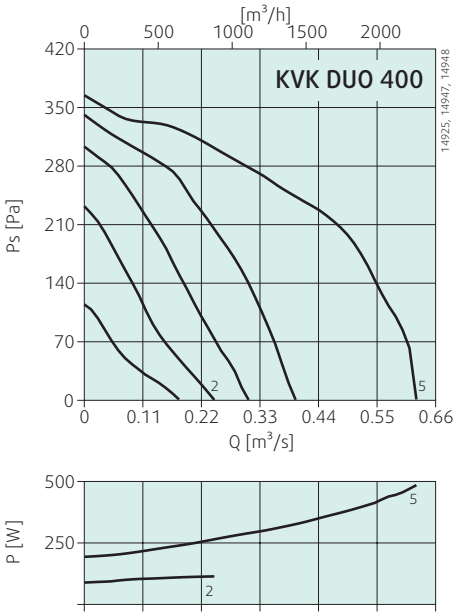
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	49	59	54	43	43	41	37	34
L_{wA} Outlet dB(A)	70	58	62	59	63	65	62	58	52
L_{wA} Surrounding dB(A)	46	32	38	44	36	35	31	27	20

Measurement point: 251.9 l/s; 205 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	49	60	52	44	45	44	44	41
L_{wA} Outlet dB(A)	72	56	64	60	64	66	64	61	56
L_{wA} Surrounding dB(A)	45	27	42	39	37	34	32	32	26

Measurement point: 321.7 l/s; 273 Pa

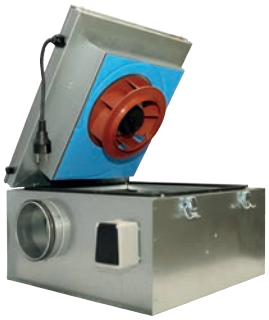


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	50	64	54	48	50	48	45	43
L_{wA} Outlet dB(A)	73	61	65	61	65	67	65	61	57
L_{wA} Surrounding dB(A)	46	27	41	40	40	36	33	31	23

Measurement point: 342.5 l/s; 266 Pa

KVKE EC

Circular duct fan



- High efficiency across the entire system characteristic field
- For noise-sensitive applications
- Motor and impeller are mounted in the cover which can be folded back to make cleaning and maintenance easier
- Plug connection interrupts the power supply when the cover is opened: no on/off switch is required for maintenance
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing

Casing from galvanised steel. 50 mm mineral wool acoustic and thermal insulation. Internal surfaces are protected by perforated, galvanised steel.

Motor

Energy-saving, highly efficient EC external rotor motors.

Impeller geometry

Radial impeller with backward curved blades.

Output control

100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the cover and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

Motor protection

The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



CB
Duct heater
Page 519



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



IGC-LI
Intake grid
Page 514



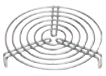
IGK
Intake grid
Page 515



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VK
Louvre shutter
Page 515



VKK
Back draft damper
Page 516



VBC
Water heating battery
Page 521



VBF
Water heating battery
Page 522



CWK
Water cooling battery
Page 524

Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Speed control
Page 488

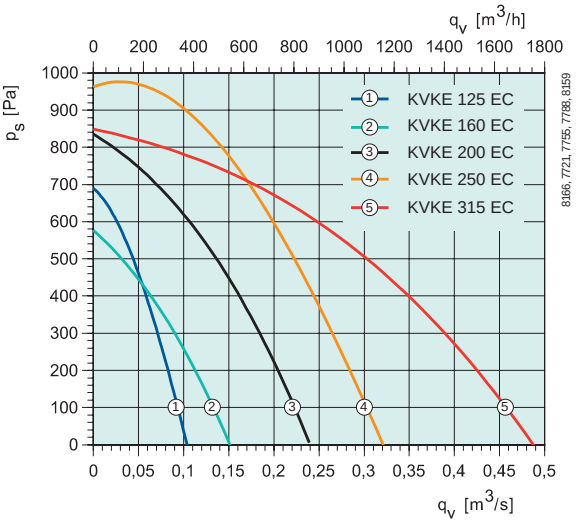


MTV
Speed control
Page 488

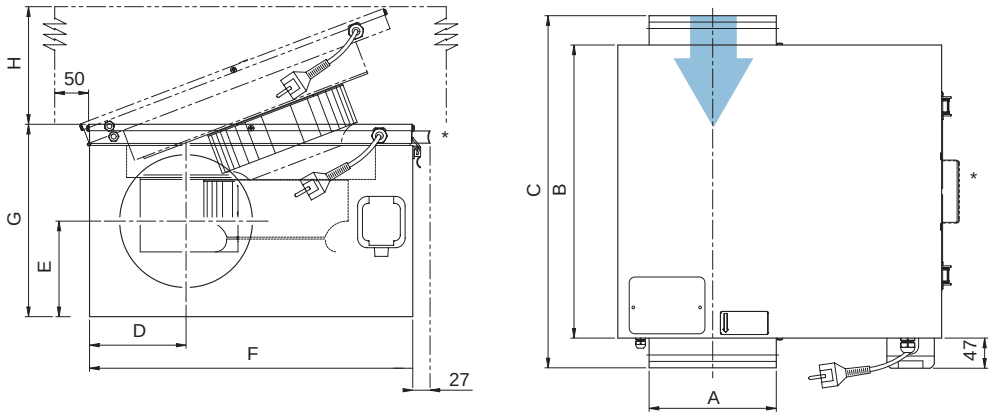


REV
Switching device
Page 510

Quick selection



Dimensions



KVKE EC	A	B	C	D	E	F	G	H
KVKE 125 EC	125	433	479	125	128.5	442	246	470
KVKE 160 EC	160	482	528	145.5	132.5	505	266	530
KVKE 200 EC	200	482	534	150.5	149	505	303	530
KVKE 250 EC	250	578	700	176	174	596	359	620
KVKE 315 EC	315	680	802	208.5	207.5	705.5	430	730

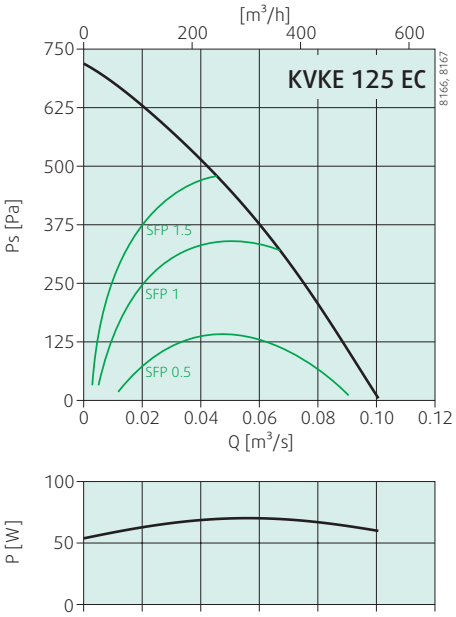
Technical data

KVKE EC		KVKE 125 EC	KVKE 160 EC	KVKE 200 EC	KVKE 250	KVKE 315 EC
Art. no.		*2570*	*2571*	*2575*	*2577*	*2578*
Voltage	V	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1
Input power (P1)	W	68.7	67.8	156	265	308
Current	A	0.536	0.531	1.1	1.64	1.89
Max. airflow	m^3/h	374	544	864	1156	1771
Fan impeller speed	r.p.m.	3336	2592	3033	2821	2219
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	41.1	38.7	46.1	49.1	47
Weight	kg	13.7	17	18.8	28.1	38.8
Insulation class		B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44
Max. temperature of transported air	°C	60	60	60	55	45
* when voltage-controlled	°C	60	60	60	55	45
Motor protection		Integral	Integral	Integral	Integral	Integral
Speed control [1]	electr.	MTP	MTP	MTP	MTP	MTP

[1] Systemair recommendation. More alternatives can be found on page 478.

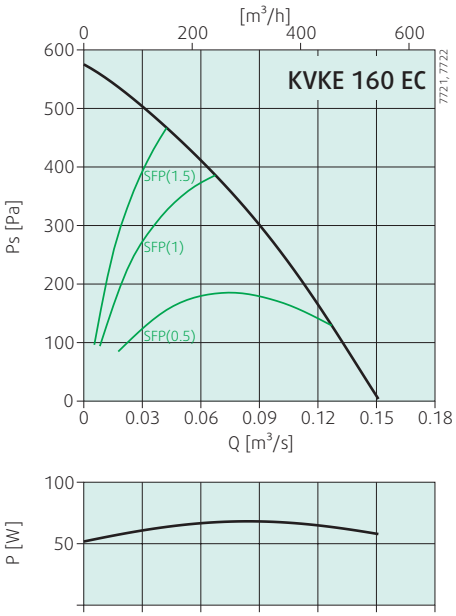


Performance



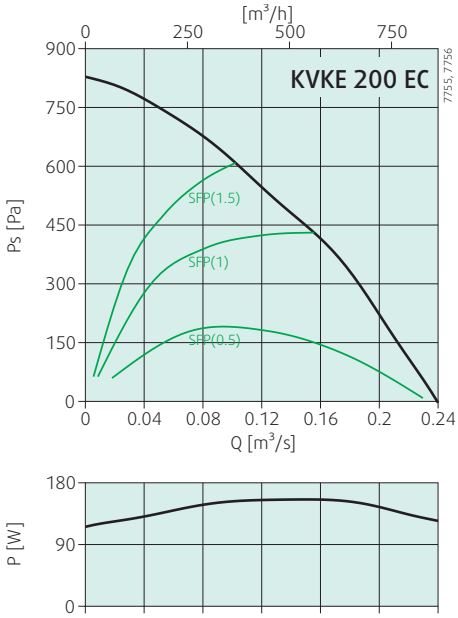
Typ	Tot	Mittelfrequenzband [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	60	46	57	56	50	45	40	37	35
L_{wA} Outlet dB(A)	76	54	63	69	71	69	66	60	46
L_{wA} Surrounding dB(A)	48	18	40	41	43	40	38	35	32

Messbedingungen: 219 m³/h; 384 Pa



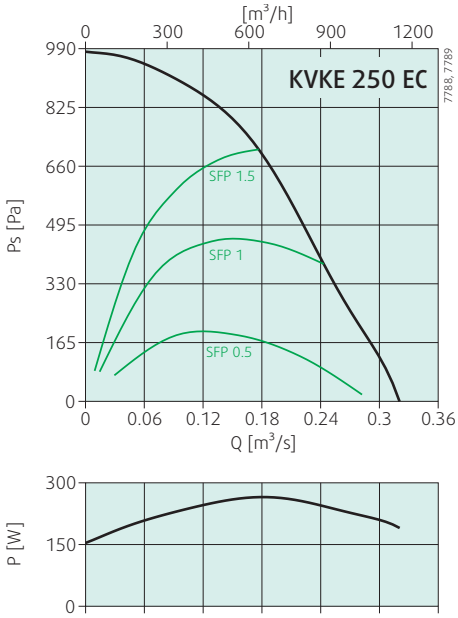
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	60	48	56	54	51	46	41	34	27
L_{wA} Outlet dB(A)	74	57	63	67	71	68	57	50	36
L_{wA} Surrounding dB(A)	47	25	42	41	43	36	33	31	22

Measurement point: 116 l/s; 184 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	55	67	63	59	55	52	47	35
L_{wA} Outlet dB(A)	83	63	73	75	79	76	73	65	43
L_{wA} Surrounding dB(A)	57	29	51	52	52	41	41	39	25

Measurement point: 195 l/s; 252 Pa

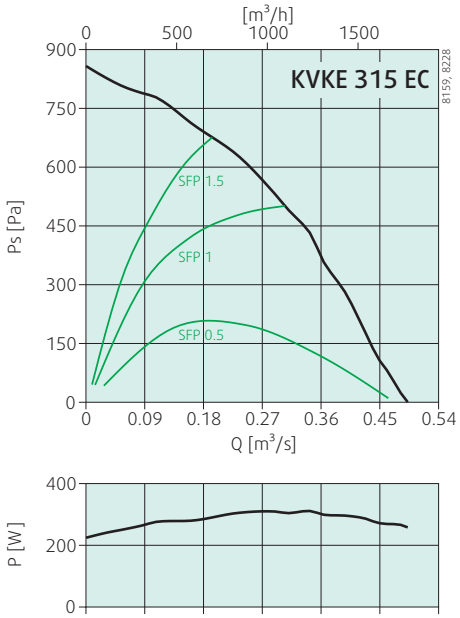


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	59	68	64	60	55	49	47	40
L_{wA} Outlet dB(A)	85	70	73	75	81	78	76	67	56
L_{wA} Surrounding dB(A)	58	38	52	53	53	44	40	36	26

Measurement point: 245 l/s; 376 Pa



Performance



Typ	Tot	Mittelfrequenzband [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	53	64	61	51	49	45	41	36
L_{wA} Outlet dB(A)	85	62	71	83	75	72	67	62	54
L_{wA} Surrounding dB(A)	54	36	48	52	44	40	36	32	26

Messbedingungen: 1040 m³/h; 530 Pa

KVKE

Circular duct fan



- For noise-sensitive applications
- Motor and impeller are mounted in the cover which can be folded back to make cleaning and maintenance easier
- Plug connection interrupts the power supply when the cover is opened: no on/off switch is required for maintenance
- Vibration-free connection to the duct system with FK fast clamp (accessories)

Casing
Casing from galvanised steel. 50 mm mineral wool acoustic and thermal insulation with a internal surface liner which prevents the migration of fibres into the airstream.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via stepless thyristor or 5-stage transformer.

Motor protection
Integrated thermal contacts with manual reset in accordance with EN60335-2-80.

You can find more information in our online catalogue on www.systemair.com

Accessories



CBM
Duct heater
Page 520



FFR
Filter cassette
Page 517



FGR
Filter cassette
Page 516



FK
Fast clamp
Page 514



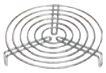
IGC-LI
Grill
Page 514



LDC
Silencer
Page 518



RSK
Back draft damper
Page 514



SG
Protection guard
Page 515



VBC / VBF
Water heating battery
Page 521

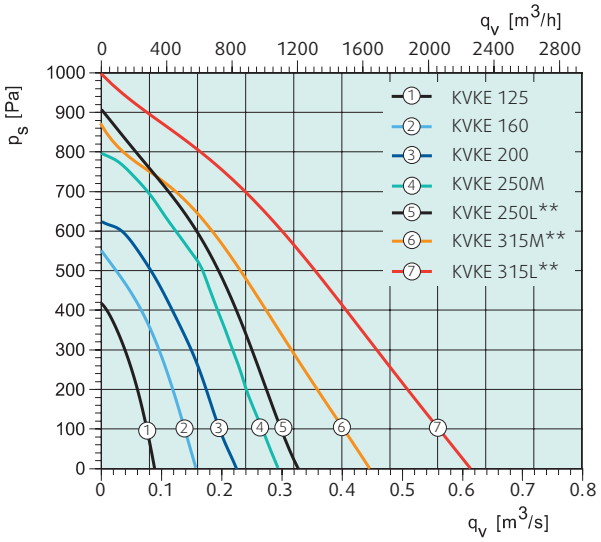


VKK
Back draft damper
Page 516



VK
Louvre shutter
Page 515

Quick selection



Electrical accessories



RE / REU
Speed control
Page 484



REE
Speed control
Page 487

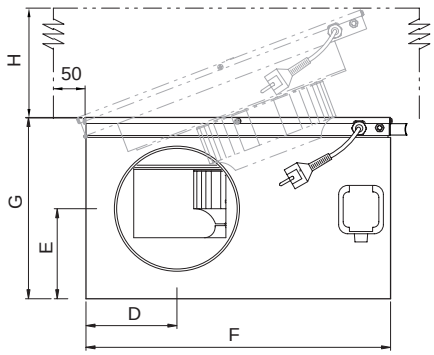


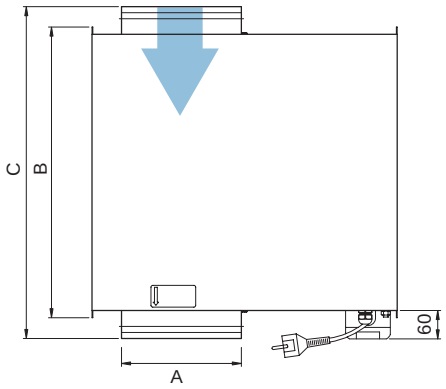
REV
Switching device
Page 510



FRQ
Frequency Inverter
Page 490

Dimensions





KVKE	A	B	C	D	E	F	G	H
KVKE 125	125	433	479	125	128.5	442	246	470
KVKE 160	160	482	528	145.5	132.5	505	266	530
KVKE 200	200	482	534	150.5	149	505	303	530
KVKE 250	250	578	700	176	174	596	359	620
KVKE 315	315	680	802	208.5	207.5	705.5	430	730

Technical data

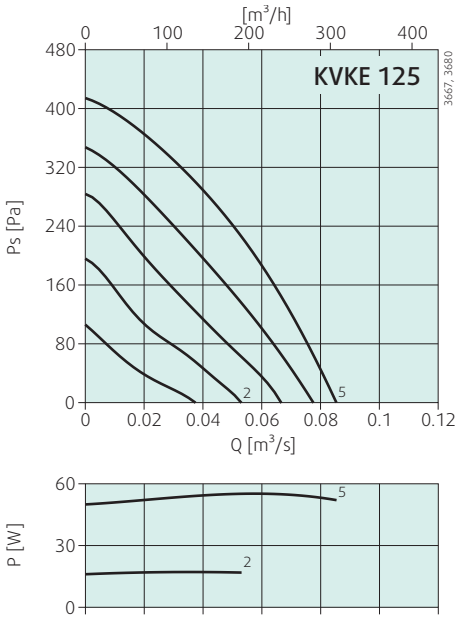
KVKE		KVKE 125	KVKE 160	KVKE 200	KVKE 250M
Art. no.		*1406*	*1409*	*19522*	*27640*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	55.1	97.6	135	204
Current	A	0.244	0.422	0.591	0.9
Max. airflow	m^3/h	307	533	785	292
Fan impeller speed	r.p.m.	2548	2687	2633	2811
Max. temperature of transported air	°C	70	70	70	70
* when voltage-controlled	°C	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	34	35.9	40.3	45.1
Weight	kg	13.6	17.2	18.8	26.4
Insulation class		B	B	F	F
Enclosure class, motor	IP	44	44	44	44
Capacitor	µF	2	3	3.5	6
Motor protection		Integral	Integral	Integral	Integral
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)		REE 1	REE 1	REE 1	REE 1

KVKE		KVKE250L **	KVKE315M **	KVKE315L **	
Art. no.		*19523*	*19526*	*19525*	
Voltage	V	230	230	230	
Frequency	Hz	50	50	50	
Phase	~	1	1	1	
Input power (P1)	W	258	285	493	
Current	A	1.1	1.23	2.14	
Max. airflow	m^3/h	1141	1584	2189	
Fan impeller speed	r.p.m.	2578	2505	2371	
Max. temperature of transported air	°C	59.6	59.5	58.7	
*when voltage-controlled	°C	55.7	59.5	48.9	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	44.7	40.5	49.9	
Weight	kg	26.9	39.1	40.4	
Insulation class		F	F	F	
Enclosure class, motor	IP	44	44	44	
Capacitor	µF	7	7	12	
Motor protection		Integral	Integral	Integral	
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 3	
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 3	
Speed control, stepless (1)		REE 2	REE 2	REE 4	

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

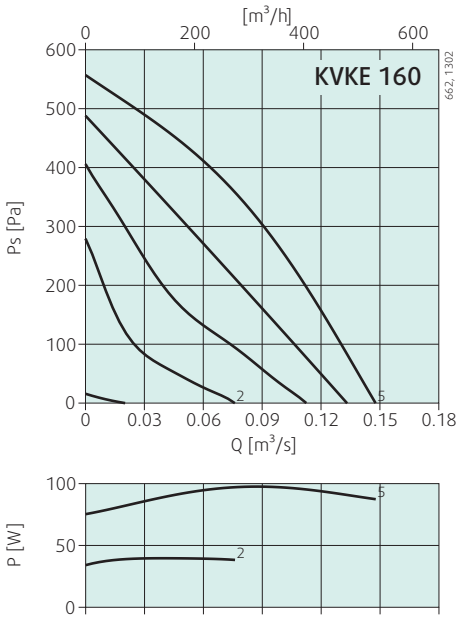
(1) Systemair recommendation. More alternatives can be found on page 478.

Performance



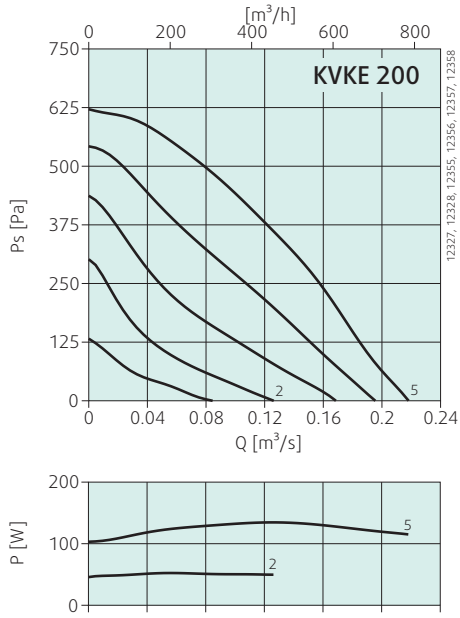
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	58	39	53	56	44	42	35	24	14
L_{wA} Outlet dB(A)	72	54	62	68	65	65	64	58	34
L_{wA} Surrounding dB(A)	43	8	38	39	33	34	32	22	11

Measurement point: 71.4 l/s; 111 Pa



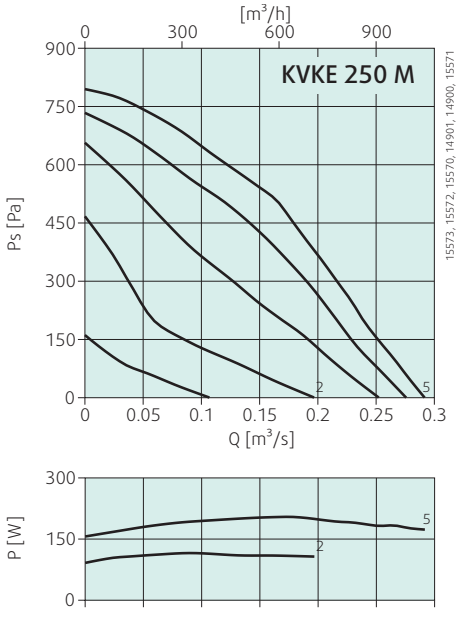
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	59	53	54	50	47	41	32	23
L_{wA} Outlet dB(A)	75	59	63	68	70	68	64	53	26
L_{wA} Surrounding dB(A)	45	36	34	39	39	38	36	30	20

Measurement point: 126 l/s; 124 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	58	59	61	53	49	47	40	36
L_{wA} Outlet dB(A)	78	61	67	76	70	68	66	55	47
L_{wA} Surrounding dB(A)	49	34	42	44	42	43	38	32	26

Measurement point: 153 l/s; 271 Pa

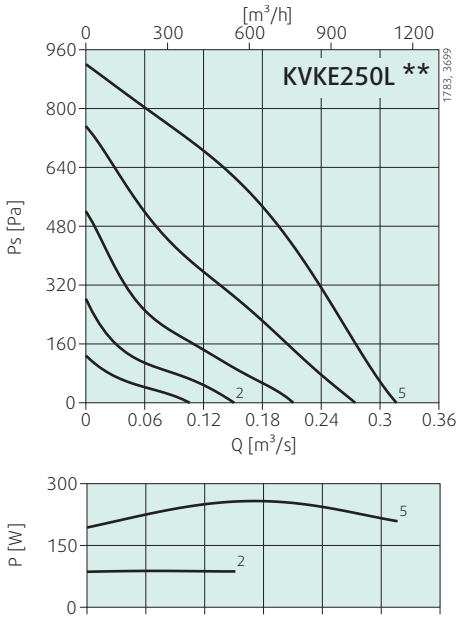


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	64	50	55	61	55	54	53	50	46
L_{wA} Outlet dB(A)	78	56	62	75	72	70	68	59	55
L_{wA} Surrounding dB(A)	52	24	35	49	47	41	39	38	35

Measurement point: 164.3 l/s; 509.2 Pa

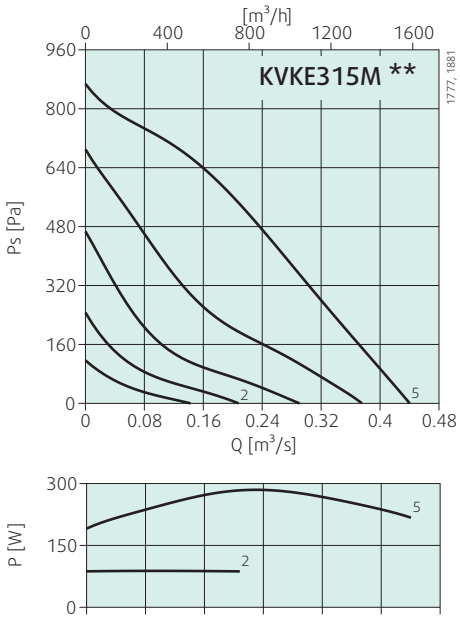


Performance



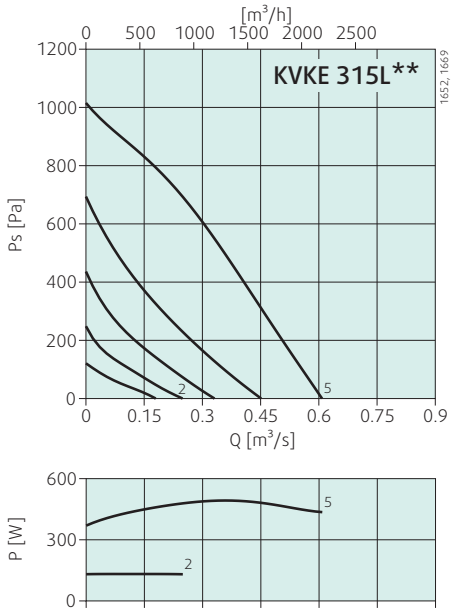
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	58	65	64	59	54	48	48	45
L_{wA} Outlet dB(A)	81	66	67	72	77	73	73	65	59
L_{wA} Surrounding dB(A)	55	34	49	52	48	38	31	34	26

Measurement point: 251 l/s; 265 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	64	50	59	59	56	54	48	49	47
L_{wA} Outlet dB(A)	79	64	61	68	77	71	68	62	58
L_{wA} Surrounding dB(A)	51	24	40	47	47	38	31	30	29

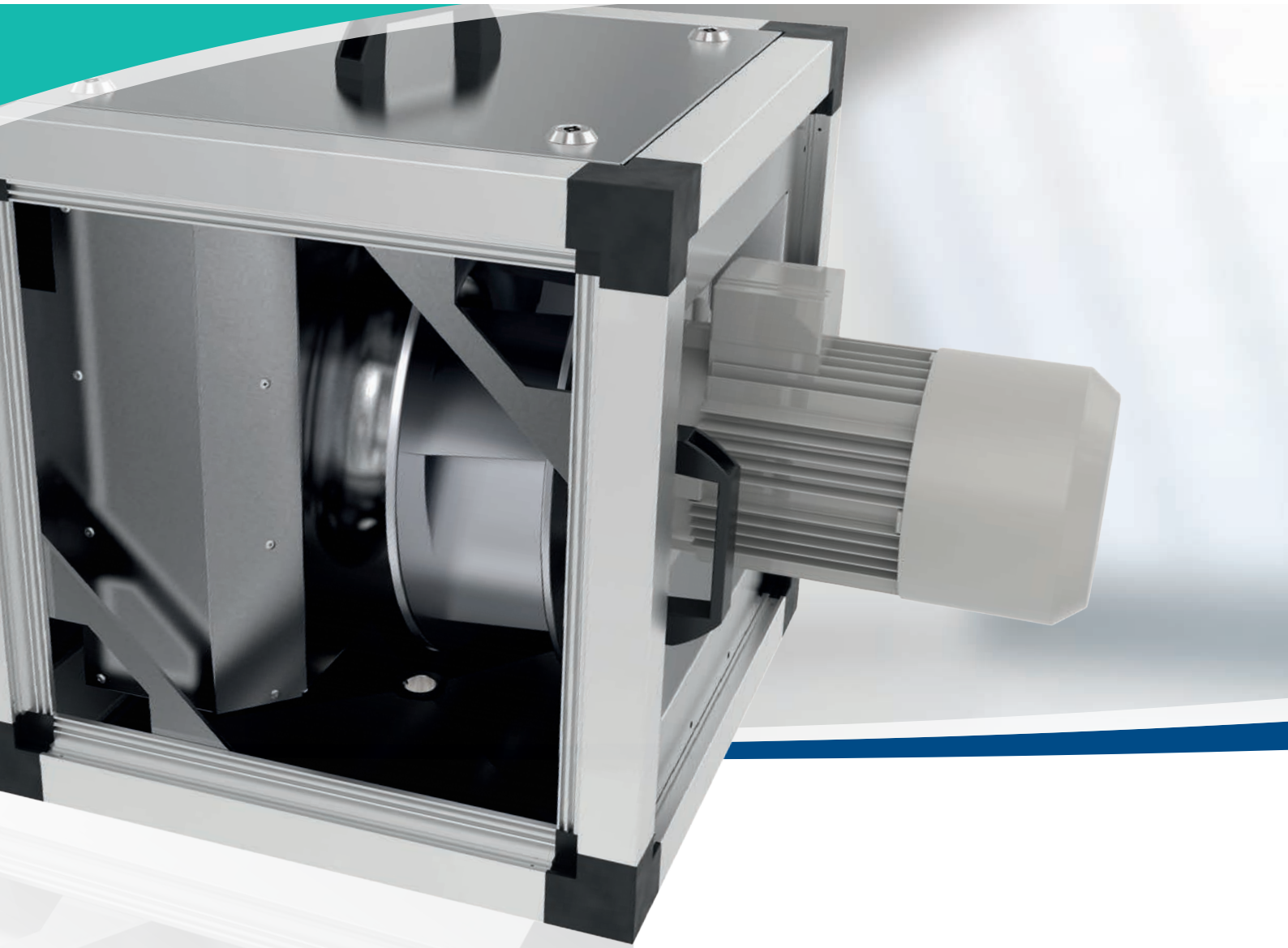
Measurement point: 321 l/s; 278 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	61	68	66	56	56	47	44	41
L_{wA} Outlet dB(A)	86	65	71	84	78	75	68	62	55
L_{wA} Surrounding dB(A)	58	39	49	56	48	42	38	36	31

Measurement point: 446 l/s; 321 Pa

Rectangular & square duct fans



KE 110



Rectangular duct fan

RS EC NEW! 122



Rectangular duct fan, with EC motor

RSI EC NEW! 132



Rectangular duct fan, insulated, with EC motor

KT 114



Rectangular duct fan

RS 126



Rectangular duct fan

RSI 136



Rectangular duct fan, insulated

Wide range of rectangular and square duct fans

Systemair rectangular and square duct fans are used in industrial, commercial and residential applications – wherever compact solutions for reliable ventilation or air extraction are required. Systemair duct fans have always been characterised by a comprehensive performance spectrum.
Along with a wide range of accessories, including heating and cooling elements, filters, noise dampers and much more, we can offer you a solution for almost every ventilation application.

Thanks to consistent research and development of new products in the last forty years, today Systemair sets standards with regard to performance, function and reliability.

KPB 140



Box fan belt driven

KDRE 146



Square duct fan, mixed flow impeller

KDRD 150



Square duct fan, mixed flow impeller

MUB EC 154



Square duct fan, Multibox with EC motor

MUB 166



Square duct fan, Multibox

MUB/T EC 174



Square duct fan, Multibox with EC motor, for higher temp. of transported air

MUB/T 178



Square duct fan, Multibox, for higher temperatur of transported air

MUB/T-S EC 184



Square duct fan, Multibox with EC motor, for higher temp. of transported air

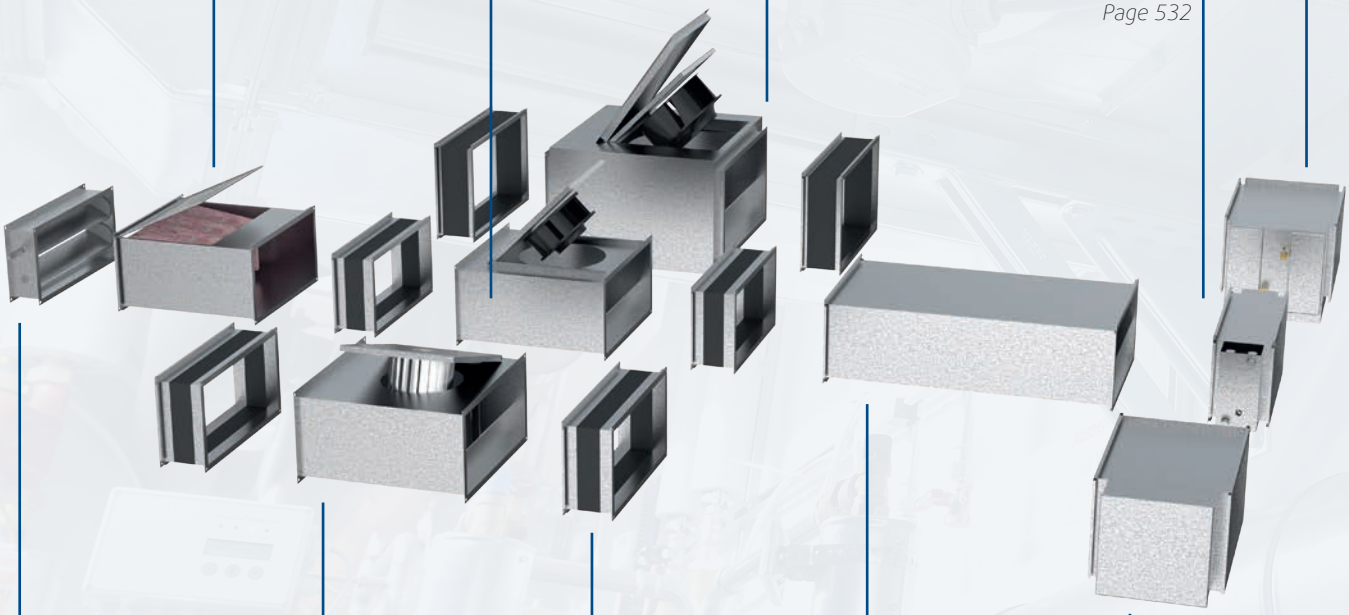
MUB/T-S 188



Square duct fan, Multibox, for higher temperatur of transported air

System solutions for rectangular & square duct fans

Custom-fit and perfectly coordinated!



FFK
Filter cassette
Page 527

RS / RS EC
Rectangular duct fan
Page 122

RSI / RSI EC
Rectangular duct fan, insulated
Page 132

PGK
Cold water coil
Page 530

VBR
Water-heating coil
Page 532

SRK
Damper
Page 525

KE / KT
Rectangular duct fan
Page 110

DS
Flexible connections
Page 525

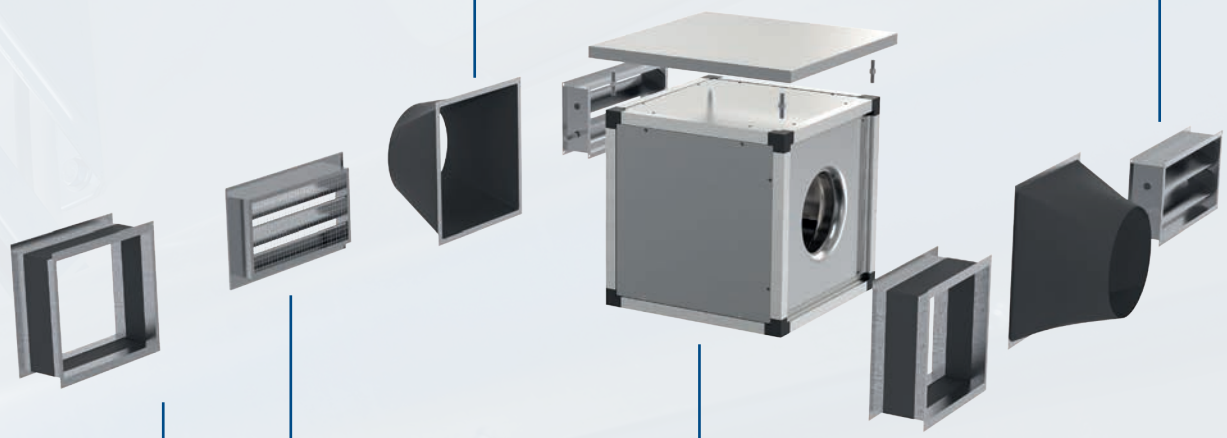
LDR
Silencer
Page 526

RB/RBM
Heating coil
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UGS
Flexible connections
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WSD
Weather roof
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SRKG
Damper
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FGV
Flexible connections
Page 539

WSG
Weather protection guard
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MUB / MUB EC
Multibox
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KE

Rectangular duct fans



- Speed controllable
- Motor protection via integrated thermal contacts
- Can be installed in any mounting position

Casing
Casing manufactured from galvanised sheet steel. Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with forward curved blades.

Output control
Speed controllable via voltage reduction using a transformer, or controllable with a frequency converter by using an all-pole effective sinusoidal filter.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



DS
Flex. connection
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Filter cassette
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GFL
Counter flange
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PGK
Duct cooler
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DXRE
Duct cooler
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RB
Duct heater
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RBM
Duct heater
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VBR
Water heating battery
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Motor protection
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REPT
Digital regulator
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RT
Room thermostat
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RTRE
Speed control
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REU
Speed control
Page 484



REE
Speed control
Page 487

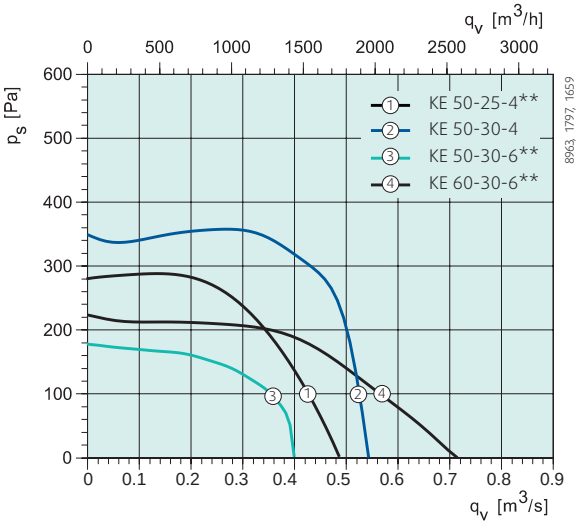


REV
Switching device
Page 510

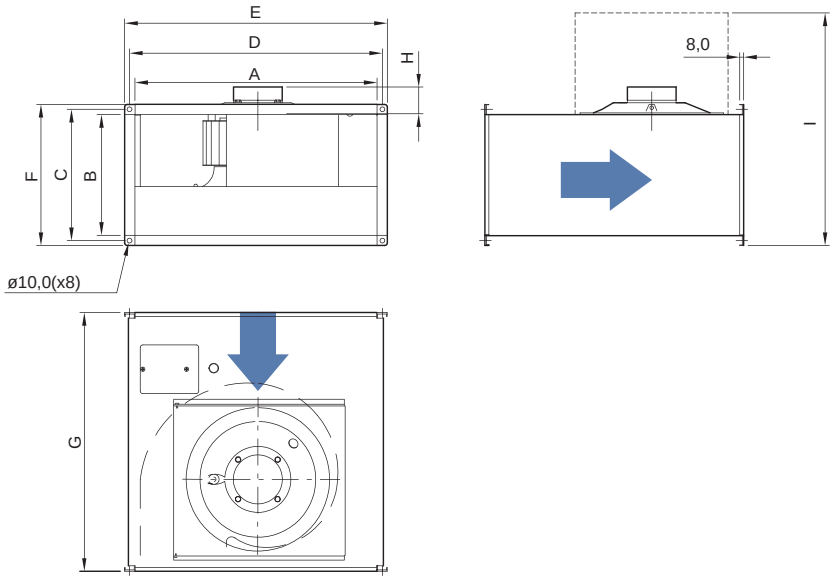


FRQ
Frequency inverter
Page 490

Quick selection



Dimensions



KE	A	B	C	D	E	F	G	H	I*
KE 50-25-4	498	248	270	520	540	290	532	32	530
KE 50-30-4	498	298	320	520	540	340	562	34	695
KE 60-30-4/6	598	298	320	620	640	340	642	47	715

* Dimension with fully open hatch.

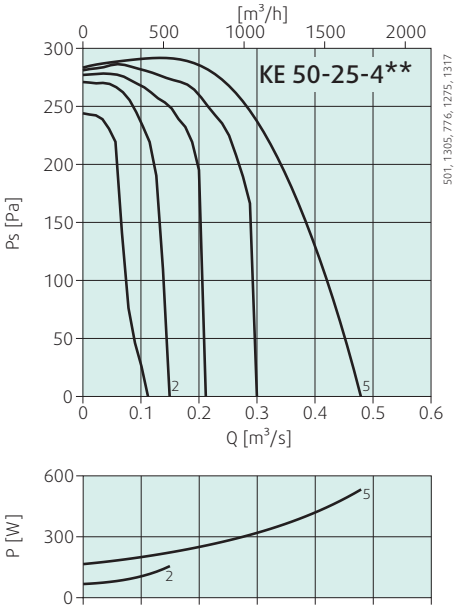
Technical data

KE		KE 50-25-4**	KE 50-30-4	KE 50-30-6**	KE 60-30-6**
Art. no.		1467	19549	19550	19551
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1~	1~	1~	1~
Input power (P1)	W	533	700	294	493
Current	A	2.51	3.4	1.48	2.30
Max. airflow	m^3/h	1724	1872	1454	2372
Fan impeller speed	r.p.m.	1298	1009	676	898
Max. temperature of transported air	°C	70	40	70	70
*when voltage-controlled	°C	70	40	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	55.2	57	49	55
Weight	kg	18.7	22.7	20.8	30.3
Insulation class		F	F	F	F
Enclosure class, motor	IP	IP 54	IP 54	IP 54	IP 54
Capacitor	µF	8	10	6	14
Motor protection (1)		S-ET 10	S-ET 10	S-ET 10	S-ET 10
Speed control, five-step (1)	Transf.	RTRE 5	RTRE 5	RTRE 3	RTRE 3
Speed control, five step high/low (1)	Transf.	REU 5	REU 5	REU 3	REU 3
Speed control, stepless (1)	Electr.	REE 4	REE 4	REE 2	REE 4

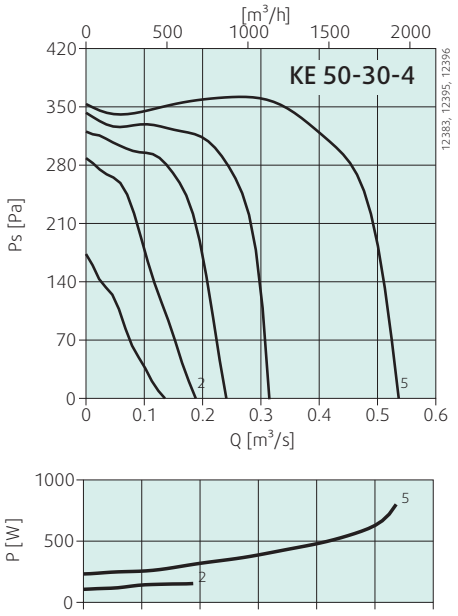
(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

(1) Systemair recommendation. More alternatives can be found on page 478.

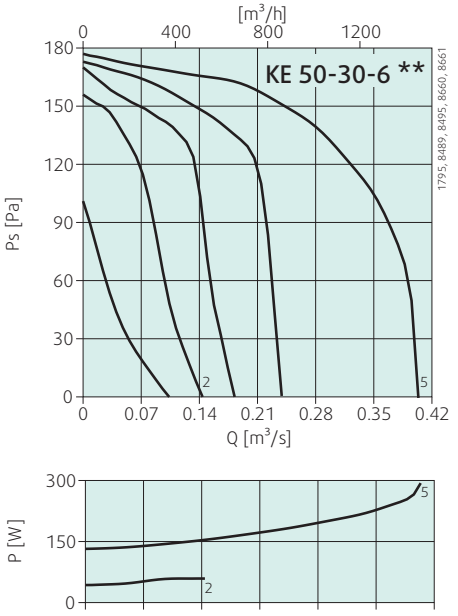
Performance



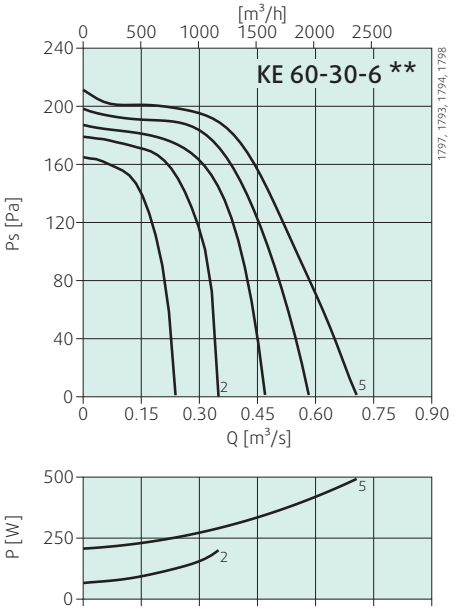
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	62	69	66	59	63	64	62	59
L_{wA} Outlet dB(A)	77	56	64	66	68	73	70	68	64
L_{wA} Surrounding dB(A)	62	35	50	56	58	55	51	46	51
With LDR 50-25									
L_{wA} Inlet dB(A)	59	55	53	51	40	41	43	46	42
L_{wA} Outlet dB(A)	77	77	46	49	41	43	53	55	56
Measurement point: 1166 m³/h; 273 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	65	69	65	61	67	67	66	60
L_{wA} Outlet dB(A)	78	57	68	66	69	73	71	71	63
L_{wA} Surrounding dB(A)	64	53	57	59	52	56	54	50	43
With LDR 50-30									
L_{wA} Inlet dB(A)	77	77	48	49	46	37	56	56	57
L_{wA} Outlet dB(A)	66	60	60	52	51	45	56	58	55
Measurement point: 1217 m³/h; 351 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	58	61	57	56	59	59	56	49
L_{wA} Outlet dB(A)	70	55	58	57	64	65	63	61	53
L_{wA} Surrounding dB(A)	56	50	48	50	45	49	43	39	35
With LDR 50-30									
L_{wA} Inlet dB(A)	59	58	53	42	36	28	42	42	38
L_{wA} Outlet dB(A)	57	55	50	42	44	34	45	47	42
Measurement point: 943 m³/h; 145 Pa									



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	64	66	63	60	62	63	59	53
L_{wA} Outlet dB(A)	75	55	65	62	69	70	67	65	57
L_{wA} Surrounding dB(A)	62	56	51	58	50	51	49	44	38
With LDR 60-30									
L_{wA} Inlet dB(A)	65	64	57	48	40	31	45	45	42
L_{wA} Outlet dB(A)	61	55	57	47	49	38	50	51	46
Measurement point: 1303 m³/h; 177 Pa									



Reference: Experimenta, Heilbronn, Germany

KT

Rectangular duct fans



- Speed controllable
- Three-phase motor
- Motor protection via integrated thermal contacts
- Can be installed in any mounting position

Casing
Casing manufactured from galvanised sheet steel. Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with forward curved blades.

Output control
Speed controllable via voltage reduction using a transformer, or controllable with a frequency converter by using an all-pole effective sinusoidal filter.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

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Accessories



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RBM
Duct heater
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Water heating battery
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Electrical accessories



STDT 16
Motor protection
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REPT
Digital regulator
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RT
Room thermostat
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RTRD
Speed control
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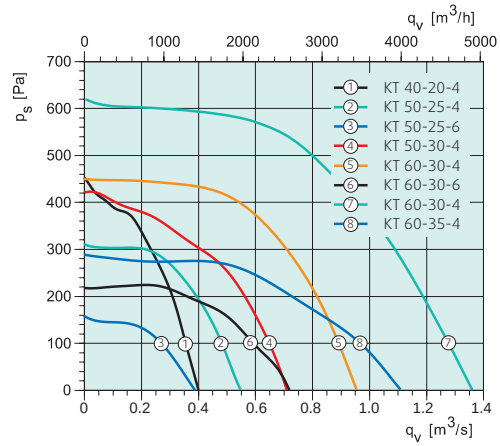


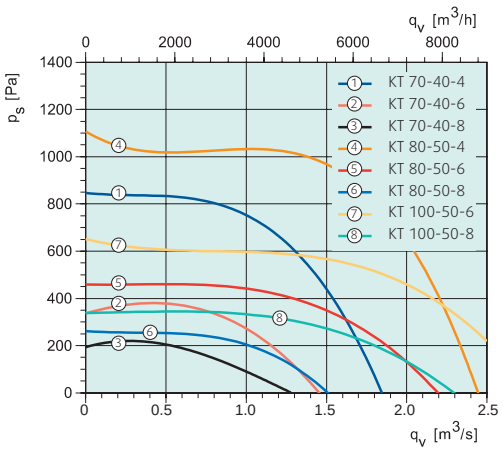
REV
Switching device
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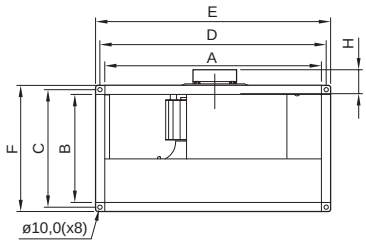
FRQ
Frequency inverter
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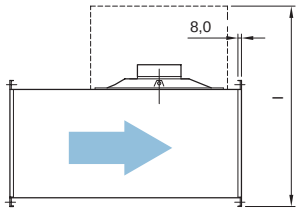
Quick selection

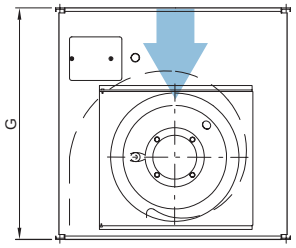




Dimensions







KT	A	B	C	D	E	F	G	H	I*
KT 40-20	398	198	220	420	440	240	502	32	530
KT 50-25	498	248	270	520	540	290	532	68	610
KT 50-30	498	298	320	520	540	340	562	68	695
KT 60-30	598	298	320	620	640	340	642	89	715
KT 60-35	598	348	370	620	640	390	717	92	805
KT 70-40-4	698	398	420	720	740	440	787	92	900
KT 70-40-6/8	698	398	420	720	740	440	787	92	900
KT 80-50	798	497	520	820	840	540	880	113	1090
KT 100-50	998	497	520	1020	1040	540	980	113	1140

* Dimension with fully open hatch

Technical data

KT		KT 40-20-4	KT 50-25-4	KT 50-25-6	KT 50-30-4	KT 60-30-4
Art. no.		*1482*	*1487*	*1485*	*1489*	*1494*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	289	565	220	935	1362
Current	A	0.519	0.969	0.44	1.64	2.36
Max. airflow	m^3/h	1325	1958	1372	2592	3431
Fan impeller speed	r.p.m.	1303	1287	826	1223	1279
Min. static back pressure	Pa	0	0	0	110	0
Max. temperature of transported air	°C	63.4	66.3	70	41	62.5
*when voltage-controlled	°C	63.4	51.3	70	41	62.5
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	52	54.8	43.7	56.8	58.4
Weight	kg	12.5	17.4	16.5	21.1	30.6
Insulation class		B	F	F	F	F
Enclosure class, motor	IP	44	54	54	54	54
Motor protection [1]		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step [1]	Transf.	RTRD 2	RTRD 2	RTRD 2	RTRD 2	RTRD 4
Speed control, five-step high/low [1]	Transf.	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 4

KT		KT 60-30-6	KT 60-35-4	KT 60-35-6	KT 70-40-4	KT 70-40-6
Art. no.		*1493*	*1499*	*1497*	*1506*	*1504*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	418	2478	935	4186	1628
Current	A	0.855	4.15	1.84	7.15	3.02
Max. airflow	m^3/h	2153	4745	3870	6635	5270
Fan impeller speed	r.p.m.	837	1244	777	1250	805
Min. static back pressure	Pa	25	180	0	300	0
Max. temperature of transported air	°C	39.9	42.3	44.3	48.5	60.8
* when voltage-controlled	°C	39.9	42.3	44.3	48.5	60.8
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	47.9	60.7	52.5	66.4	56.8
Weight	kg	24.3	37.2	31.2	54.1	43.7
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Motor protection [1]		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step [1]	Transf.	RTRD 2	RTRD 7	RTRD 2	RTRD 2	RTRD 4
Speed control, five-step high/low [1]	Transf.	RTRDU 2	RTRDU 7	RTRDU 2	RTRDU 2	RTRDU 4

[1] Systemair recommendation. More alternatives can be found on page 478.

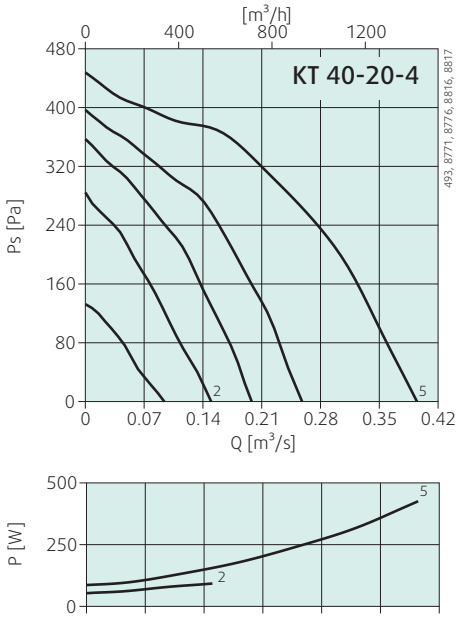
Technical data

KT		KT 80-50-4	KT 80-50-6	KT 80-50-8	KT 100-50-6	KT 100-50-8
Art. no.		*1513*	*1511*	*1509*	*1516*	*1514*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	5639	2799	1167	4450	2287
Current	A	9.22	5.12	2.44	7.82	4.68
Max. airflow	m^3/h	7744	7783	5458	9814	8266
Fan impeller speed	r.p.m.	1266	828	548	794	614
Min. static back pressure	Pa	720	70	0	205	0
Max. temperature of transported air	°C	41	70	61.9	43	70
* when voltage-controlled	°C	41	70	61.9	43	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	67.4	59.4	59	62.1	58.3
Weight	kg	70.4	65.8	57	80	79
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Motor protection (1)		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step (1)	Transf.	RTRD 14	RTRD 7	RTRD 4	RTRD 14	RTRD 7
Speed control, five-step high/low (1)	Transf.	-	RTRDU 7	RTRDU 4	-	RTRDU 7

(1) Systemair recommendation. More alternatives can be found on page 478.

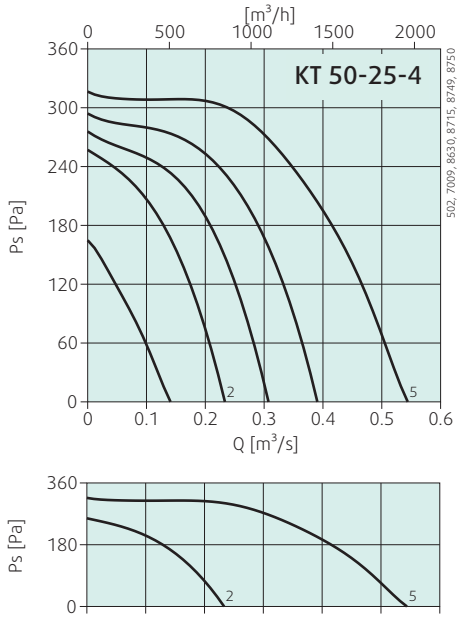


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	63	73	68	68	64	64	62	58
L_{wA} Outlet dB(A)	79	58	69	72	72	72	70	68	64
L_{wA} Surrounding dB(A)	65	39	52	62	59	57	53	49	46

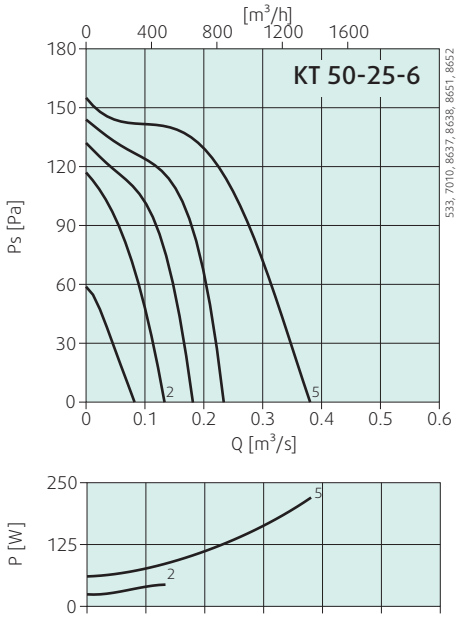
Measurement point: 1098 m^3/h; 108 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	66	72	69	65	70	70	67	64
L_{wA} Outlet dB(A)	82	62	68	69	73	78	75	73	70
L_{wA} Surrounding dB(A)	68	44	55	59	60	63	58	56	61

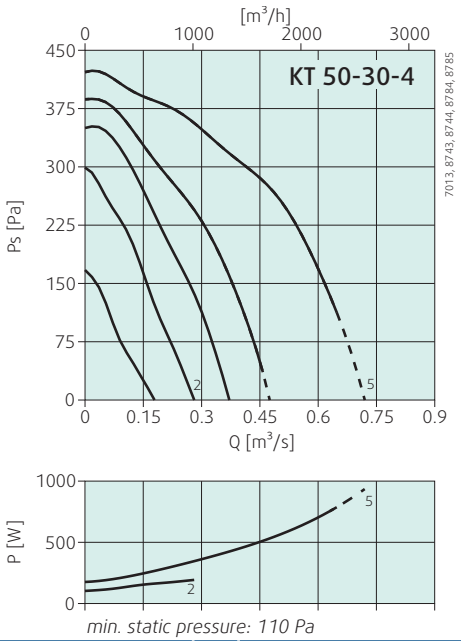
Measurement point: 1616 m^3/h; 143 Pa

Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	67	56	63	59	57	58	58	56	52
L_{WA} Outlet dB(A)	70	53	59	60	65	64	63	60	55
L_{WA} Surrounding dB(A)	55	36	46	50	50	48	42	39	37

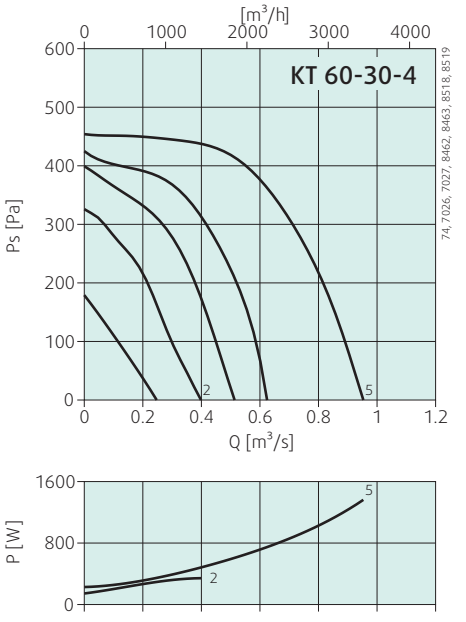
Measurement point: 1040 m³/h; 80.9 Pa



min. static pressure: 110 Pa

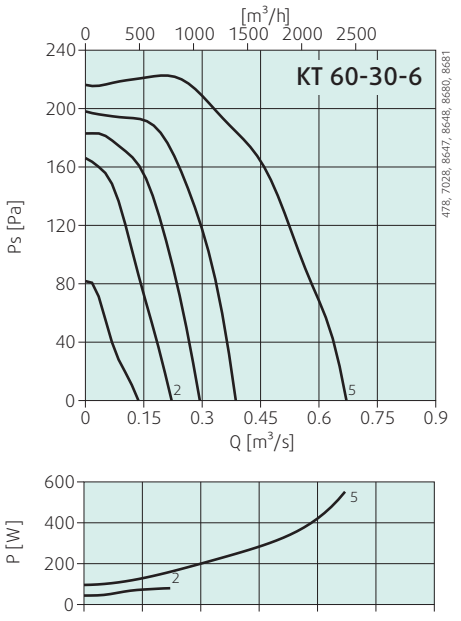
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	81	69	73	70	69	75	75	73	70
L_{WA} Outlet dB(A)	86	65	71	73	77	82	79	78	74
L_{WA} Surrounding dB(A)	71	47	59	65	62	66	61	56	55

Measurement point: 2347 m³/h; 108 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	85	79	77	74	72	77	79	75	71
L_{WA} Outlet dB(A)	88	68	75	75	79	83	81	80	76
L_{WA} Surrounding dB(A)	72	47	65	68	65	64	62	59	55

Measurement point: 3078 m³/h; 152 Pa

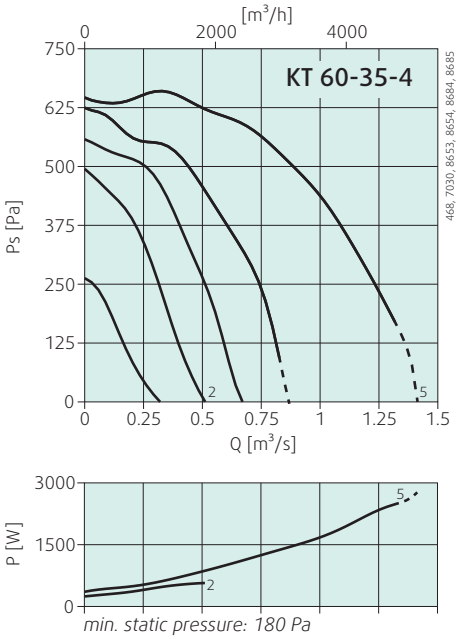


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	71	63	64	60	61	64	63	61	55
L_{WA} Outlet dB(A)	74	56	65	63	68	68	67	66	59
L_{WA} Surrounding dB(A)	60	37	52	55	54	51	48	47	42

Measurement point: 1768 m³/h; 143 Pa



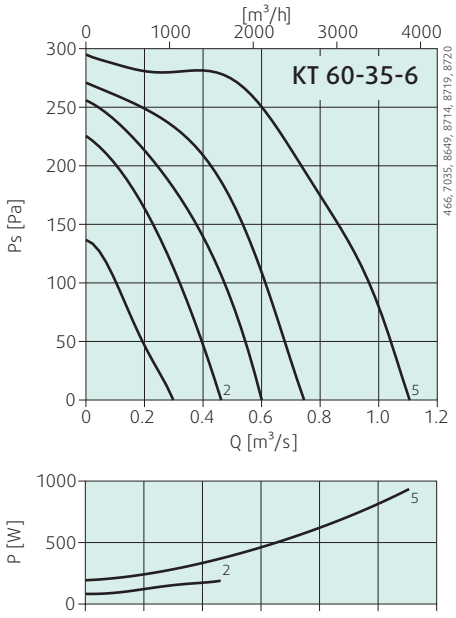
Performance



min. static pressure: 180 Pa

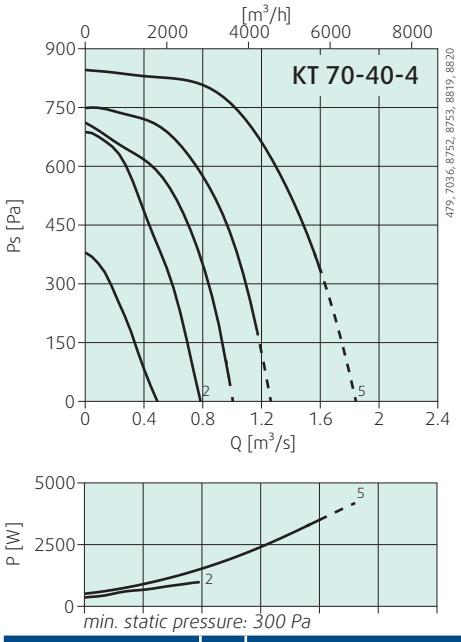
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	74	78	72	74	81	80	76	73
L_{wA} Outlet dB(A)	91	69	76	77	82	87	85	82	78
L_{wA} Surrounding dB(A)	73	54	65	67	64	68	63	59	56

Measurement point: 4252 m³/h; 297 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	69	70	63	66	68	67	64	63
L_{wA} Outlet dB(A)	80	62	68	67	75	74	72	71	66
L_{wA} Surrounding dB(A)	65	45	56	60	59	57	53	52	50

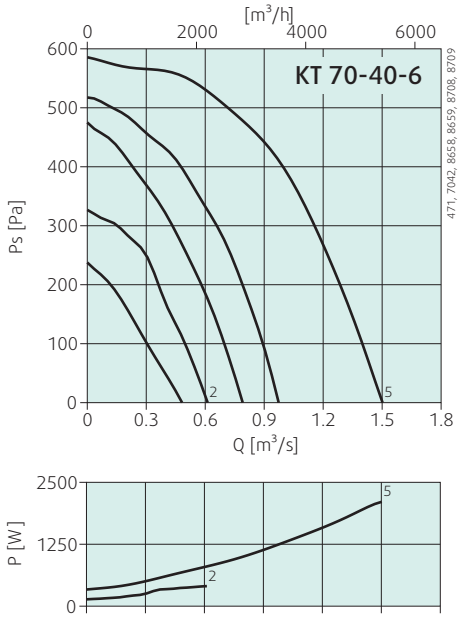
Measurement point: 3204 m³/h; 127 Pa



min. static pressure: 300 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	90	83	80	76	76	84	84	80	78
L_{wA} Outlet dB(A)	95	77	78	82	85	90	89	86	81
L_{wA} Surrounding dB(A)	81	59	68	73	72	76	73	72	69

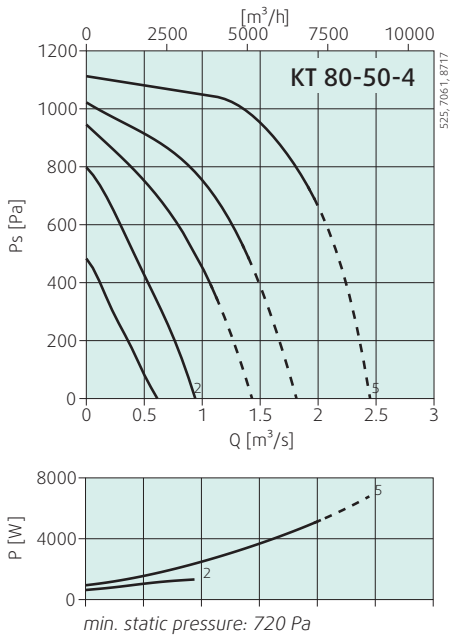
Measurement point: 5393 m³/h; 439 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	70	71	70	71	75	74	71	66
L_{wA} Outlet dB(A)	86	67	73	75	79	80	79	76	71
L_{wA} Surrounding dB(A)	73	49	64	67	69	65	60	55	53

Measurement point: 4331 m³/h; 168 Pa

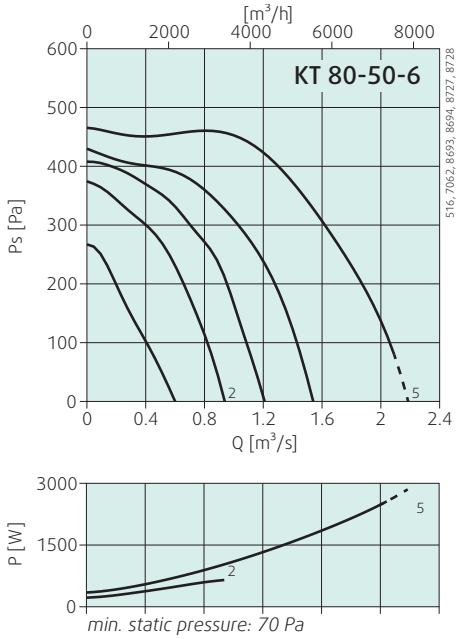
Performance



min. static pressure: 720 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	87	73	76	79	77	82	81	76	73
L_{WA} Outlet dB(A)	96	73	79	81	87	92	90	86	81
L_{WA} Surrounding dB(A)	79	62	70	71	71	75	70	66	64

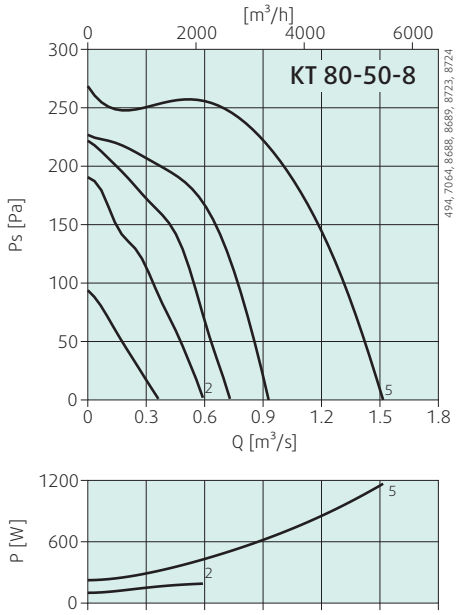
Measurement point: 6962 m³/h; 715 Pa



min. static pressure: 70 Pa

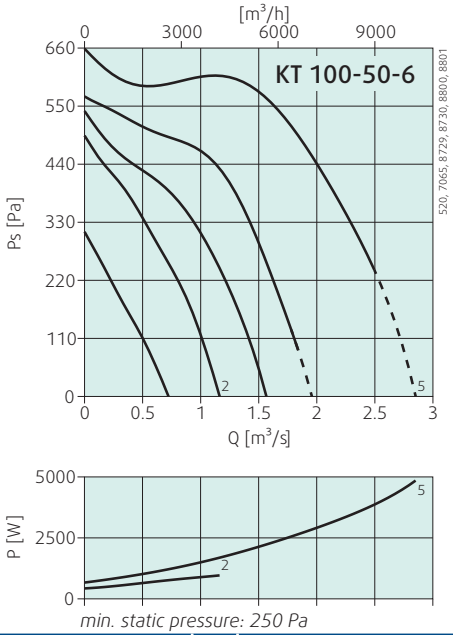
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	85	71	73	71	76	81	79	74	71
L_{WA} Outlet dB(A)	90	69	73	76	84	84	83	80	75
L_{WA} Surrounding dB(A)	74	58	64	65	69	68	64	59	60

Measurement point: 6764 m³/h; 197 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	75	64	65	65	66	68	68	65	59
L_{WA} Outlet dB(A)	80	61	64	71	74	73	73	71	64
L_{WA} Surrounding dB(A)	74	57	57	63	61	60	61	65	72

Measurement point: 4518 m³/h; 125 Pa



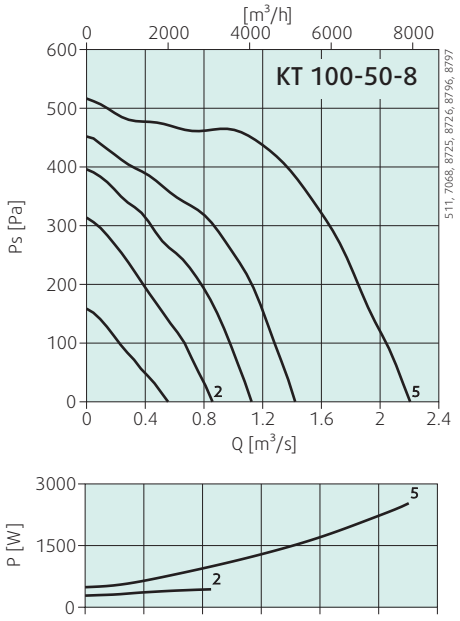
min. static pressure: 250 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	86	72	73	71	80	80	80	76	74
L_{WA} Outlet dB(A)	92	71	76	79	86	86	85	82	77
L_{WA} Surrounding dB(A)	76	62	69	67	71	69	65	60	61

Measurement point: 8186 m³/h; 337 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	69	67	68	73	74	74	70	66
L_{wA} Outlet dB(A)	86	67	69	74	81	79	79	76	70
L_{wA} Surrounding dB(A)	73	57	61	66	67	66	64	61	55

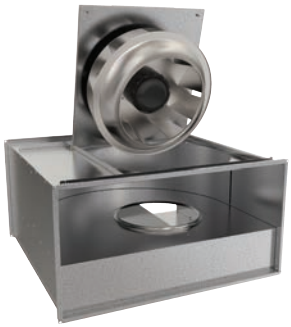
Measurement point: 3686 m³/h; 333 Pa



Reference: Skåne University Hospital, Malmö, Sweden

RS EC

Rectangular duct fans



- EC motors, high level of efficiency
- 100% speed controllable
- Integrated motor protection
- Can be installed in any mounting position
- Potentiometer included for ease of commissioning

Casing
Casing manufactured from galvanised steel. Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



DS
Flex. connection
Page 525



FFK
Filter cassette
Page 527



GFL
Counter flange
Page 525



LDR
Silencer
Page 526



SRK
Damper
Page 525



VK
Louvre shutter
Page 515



PGK
Duct cooler
Page 530



DXRE
Duct cooler
Page 531



RB
Duct heater
Page 528

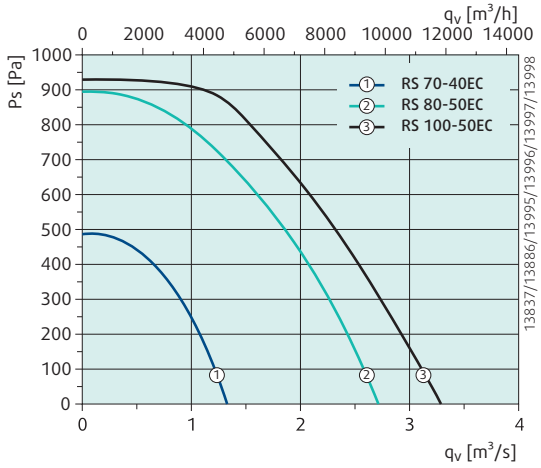


RBM
Duct heater
Page 529



VBR
Water heating battery
Page 532

Quick selection



Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Speed control
Page 488

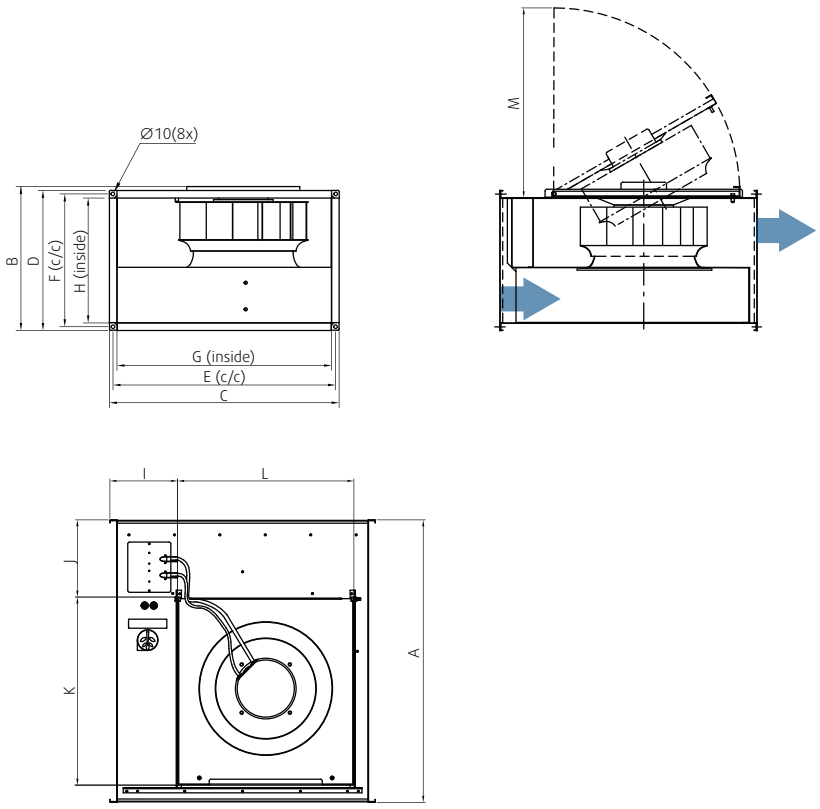


MTV
Controller
Page 488



REV
Switching device
Page 510

Dimensions



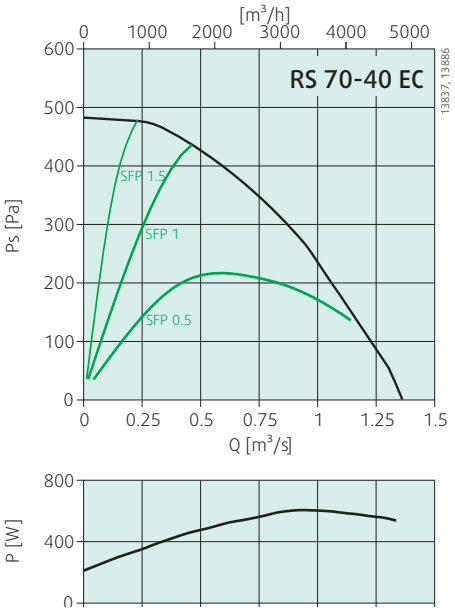
RS EC	A	B	C	D	E	F	G	H	I	J	K	L	M
RS 70-40 EC	787	465	740	440	720	420	698	398	189	215	524	491	518
RS 80-50 EC	882	580	840	541	820	520	798	498	182.5	191	644	614	638
RS 100-50 EC	982	580	1040	540	1020	520	998	498	287	260	684	634	678

Technical data

RS EC		RS 70-40 EC NEW!	RS 80-50 EC NEW!	RS 100-50 EC NEW!
Art. no.		*17824*	*17825*	*17826*
Voltage	V	230	400	400
Frequency	Hz	50/60	50/60	50/60
Phase	~	1	3	3
Input power (P1)	W	605	2144	2724
Current	A	2.75	3.27	4.15
Max. airflow	m^3/h	4810	9806	11783
Fan impeller speed	r.p.m.	1403	1509	1400
Max. temperature of transported air	°C	60	60	40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	59.9	66.4	68.2
Weight	kg	37	69.2	90.2
Insulation class		F	F	F
Enclosure class, motor	IP	54	54	54
Motor protection		integral	integral	integral

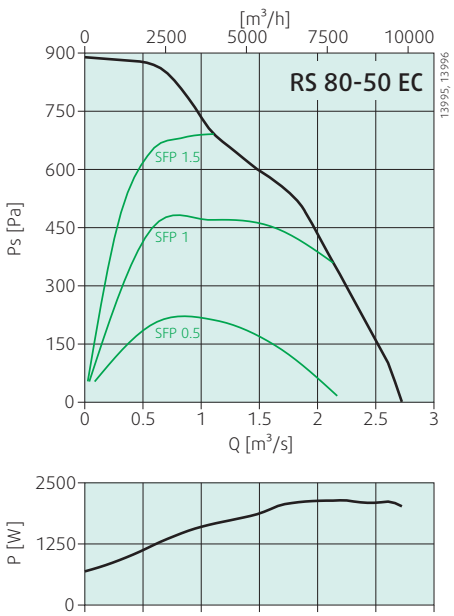


Performance



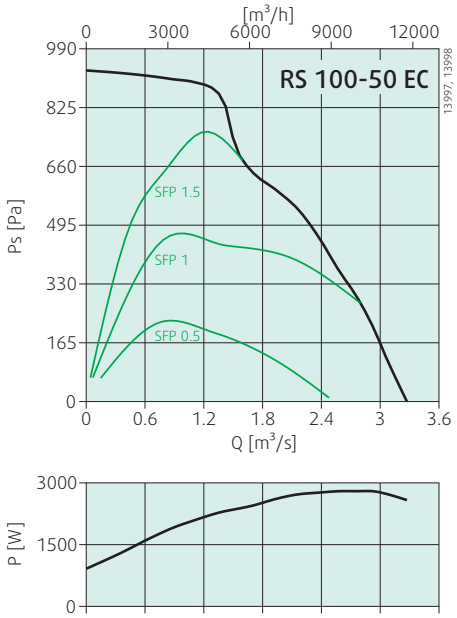
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	58	67	72	72	69	66	61	51
L_{wA} Outlet dB(A)	83	58	68	78	76	76	73	65	57
L_{wA} Surrounding dB(A)	67	44	60	64	59	56	53	46	36

Measurement point: 2766 m³/h; 342 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	72	79	79	84	79	78	72	64
L_{wA} Outlet dB(A)	93	72	81	88	87	87	82	76	67
L_{wA} Surrounding dB(A)	73	53	67	66	69	65	64	56	46

Measurement point: 5609 m³/h; 583 Pa



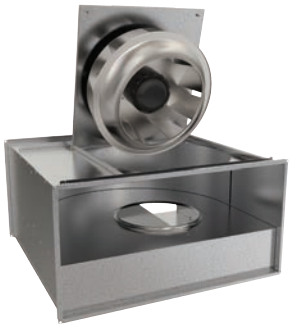
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	88	75	82	78	82	79	79	74	66
L_{wA} Outlet dB(A)	93	78	84	87	86	87	83	77	69
L_{wA} Surrounding dB(A)	75	59	71	67	68	66	66	58	52

Measurement point: 4802 m³/h;



RS

Rectangular duct fans



- Speed controllable
- Integral thermal contacts
- Can be installed in any mounting position
- Maintenance-free and reliable

Casing
Casing manufactured from galvanised steel. Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via voltage reduction using a transformer or thyristor.

Motor protection
With integrated thermal contacts and cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



DS
Flex. connection
Page 525



FFK
Filter cassette
Page 527



GFL
Counter flange
Page 525



LDR
Silencer
Page 526



SRK
Damper
Page 525



VK
Louvre shutter
Page 515



PGK
Duct cooler
Page 530



DXRE
Duct cooler
Page 531



RB
Duct heater
Page 528



RBM
Duct heater
Page 529



VBR
Water heating battery
Page 532

Electrical accessories



STDT
Motor protection
Page 501



REPT
Digital regulator
Page 499



RTRD / RTRDU
Speed control
Page 485



RTRE / RTRD
Speed control
Page 484



REU
Speed control
Page 484



REE
Speed control
Page 487

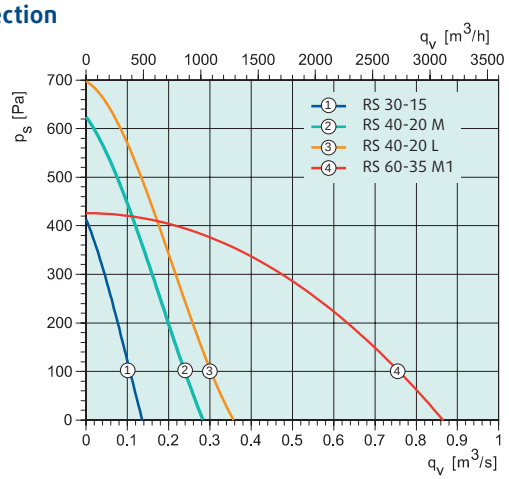


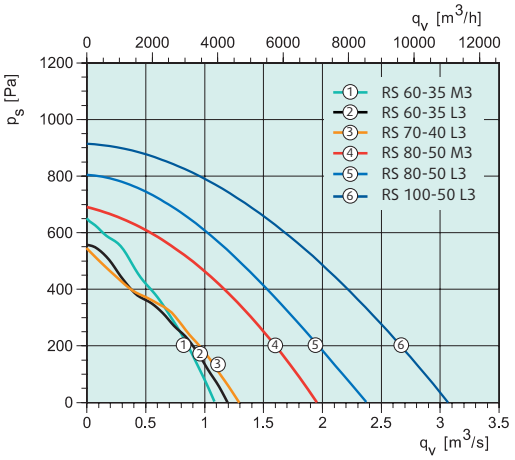
REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490

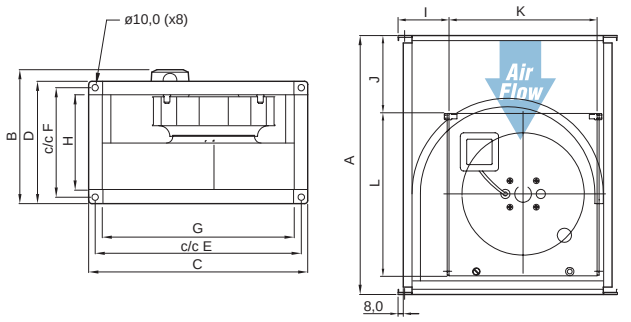
Quick selection



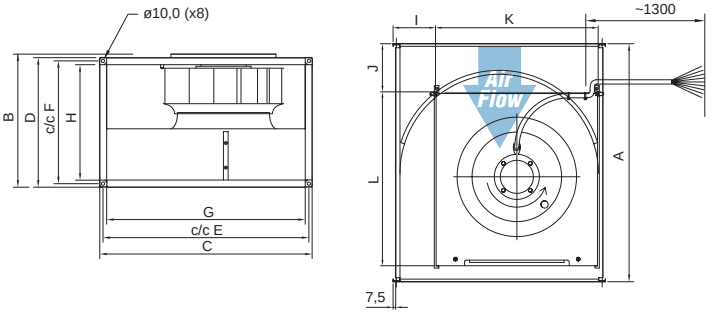


Dimensions

RS 30-15 - RS 50-25



RS 60-35M



RS	A	B	C	D	E	F	G	H	I	J	K	L
30-15	402	217	340	190	320	170	298	148	79	120	230	254
40-20 M	502	267	440	240	420	220	398	198	99	125	310	352
50-25	532	317	540	290	520	270	498	248	125	85.5	366	423
60-35 M	717	402	640	390	620	370	598	348	128	145	490	524
80-50	882	560	840	541	820	520	798	498	182.5	190	614	644
100-50	982	583	1040	541	1020	520	998	498	298.5	290	614	644

Technical data

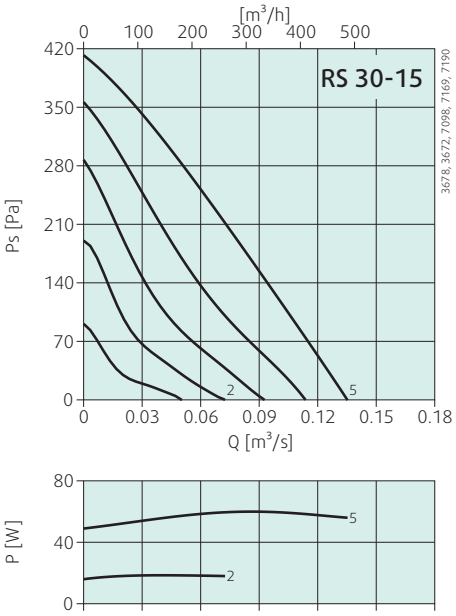
RS		RS 30-15	RS 40-20M	RS 40-20 L	RS 50-25	RS 60-35M1	RS 60-35 M3
Art. no.		*1435*	*1439*	*27641*	*19531*	*39630*	*1796*
Voltage	V	230	230	230	230	230	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	1	1	3
Input power (P1)	W	59.9	106	228	129	326	399
Current	A	0.264	0.461	0.996	0.586	1.71	0.795
Max. airflow	m^3/h	486	857	1267	1534	3172	3506
Fan impeller speed	r.p.m.	2431	2597	2754	1329	1417	1371
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	48	52	53	46	57	58
Weight	kg	6.2	10.7	12.6	15.3	26.3	29
Insulation class		B	B	F	B	F	F
Enclosure class, motor	IP	44	44	44	44	54	54
Capacitor	µF	2	3	5	4	-	-
Motor protection (1)		S-ET 10	S-ET 10	S-ET 10	S-ET 10	S-ET 10	STDT 16
Speed control, five-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5	RTRE 3	RTRD 2
Speed control, five-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 3	RTRDU 2
Speed control, stepless (1)	electr.	REE 1	REE 1	REE 1	REE 1	REE 2	FRQ(S)-4A

RS		RS 60-35 L3	RS 70-40 L3	RS 80-50 M3	RS 80-50 L3	RS 100-50 L3
Art. no.		*39631*	*39632*	*39633*	*39634*	*39635*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	537	542	886	1379	2210
Current	A	1.25	1.32	1.82	3.16	4.27
Max. airflow	m^3/h	4244	4608	7038	8446	11002
Fan impeller speed	r.p.m.	1413	1413	1399	1420	1368
Max. temperature of transported air	°C	70	70	70	70	70
*when voltage-controlled	°C	70	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	59	57	62	67	64
Weight	kg	32	34.2	61.6	67.4	83
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	-	-	-		
Motor protection (1)		STDT 16	STDT 16	STDT 16	STDT 16	STDT 16
Speed control, five-step (1)	Transf.	RTRD 2	RTRD 2	RTRD 2	RTRD 7	RTRD 7
Speed control, five-step high/low (1)	Transf.	RTRDU 2	RTRDU 2	RTRDU 2	RTRDU 7	RTRDU 7
Speed control, stepless (1)	electr.	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-10A

(1) Systemair recommendation. More alternatives can be found on page 478.

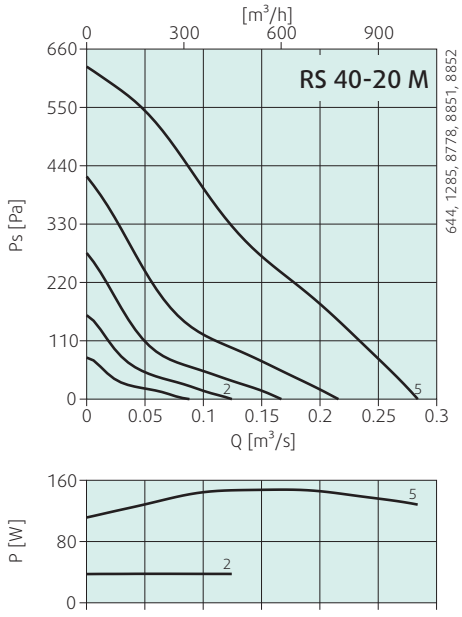


Performance



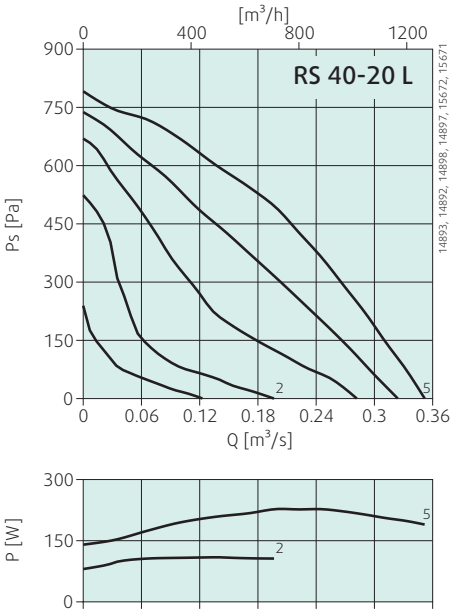
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	47	59	67	59	58	56	50	41
L_{wA} Outlet dB(A)	72	51	56	69	66	64	61	54	46
L_{wA} Surrounding dB(A)	55	29	36	53	48	47	44	38	30

Measurement point: 247 m³/h; 224.3 Pa



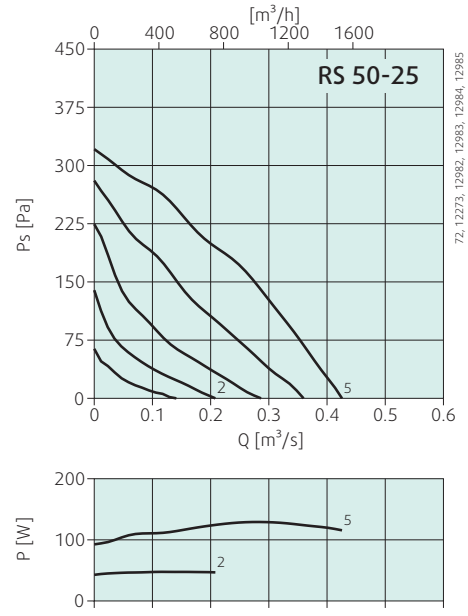
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	52	64	66	63	64	59	54	46
L_{wA} Outlet dB(A)	74	51	62	67	70	67	65	60	48
L_{wA} Surrounding dB(A)	59	37	49	56	54	49	46	41	34

Measurement point: 428 m³/h; 246.3 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	50	61	68	64	68	66	63	60
L_{wA} Outlet dB(A)	78	51	61	70	70	71	73	67	69
L_{wA} Surrounding dB(A)	61	30	37	55	53	55	54	47	44

Measurement point: 716 m³/h; 491.4 Pa

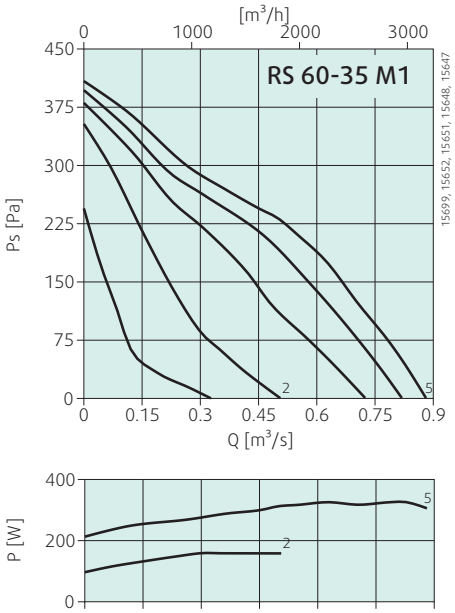


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	50	61	68	64	68	66	63	60
L_{wA} Outlet dB(A)	78	51	61	70	70	71	73	67	69
L_{wA} Surrounding dB(A)	61	30	37	55	53	55	54	47	44

Measurement point: 1716 m³/h; 491.4 Pa

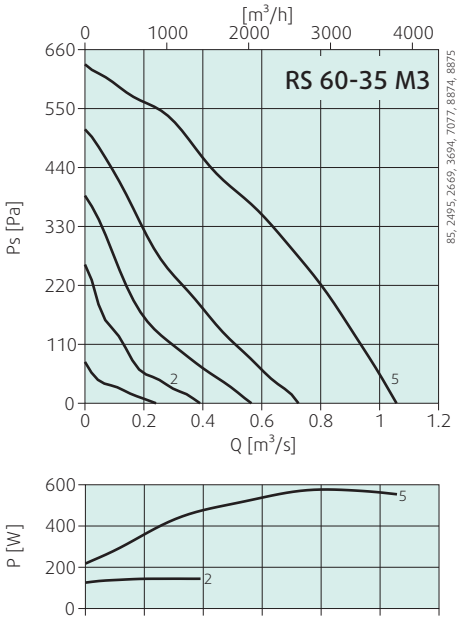


Performance



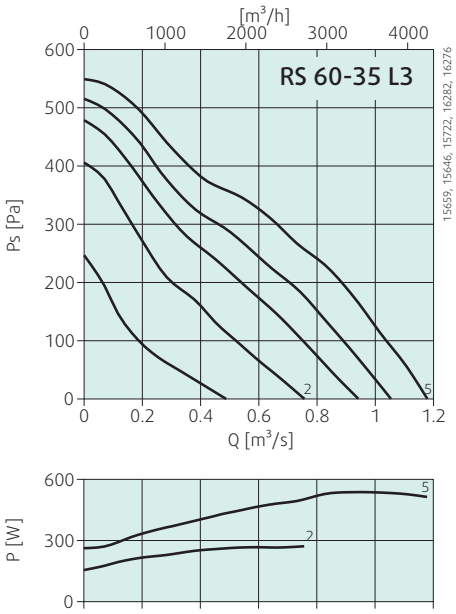
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	75	55	70	66	68	65	66	61	53
L_{WA} Outlet dB(A)	81	59	77	73	74	73	72	67	58
L_{WA} Surrounding dB(A)	65	32	62	58	55	54	53	48	42

Measurement point: 714 m³/h; 232.5 Pa



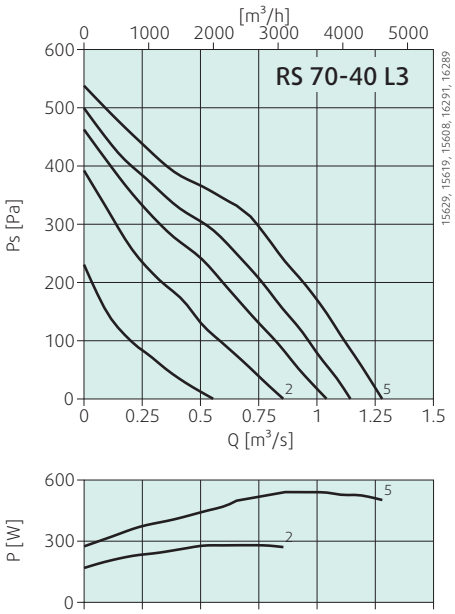
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	74	59	62	69	68	65	64	59	52
L_{WA} Outlet dB(A)	79	57	65	74	72	71	70	62	53
L_{WA} Surrounding dB(A)	65	44	54	63	55	55	53	48	38

Measurement point: 1585 m³/h; 305.5 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	76	60	72	66	69	67	66	62	54
L_{WA} Outlet dB(A)	80	62	72	72	74	73	71	65	57
L_{WA} Surrounding dB(A)	66	33	64	57	54	54	52	48	38

Measurement point: 1960 m³/h; 345.1 Pa

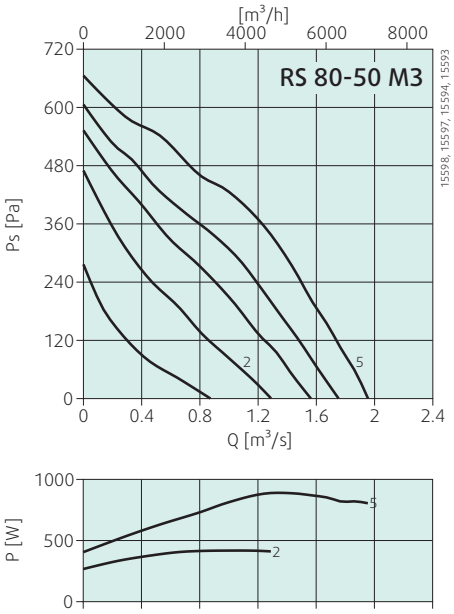


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	75	59	70	67	68	67	66	60	51
L_{WA} Outlet dB(A)	80	60	71	71	74	75	72	67	58
L_{WA} Surrounding dB(A)	65	41	61	58	56	56	49	41	35

Measurement point: 2186 m³/h; 342.4 Pa

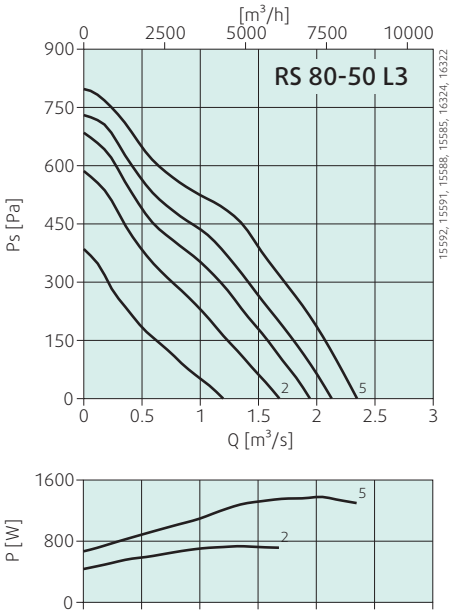


Performance



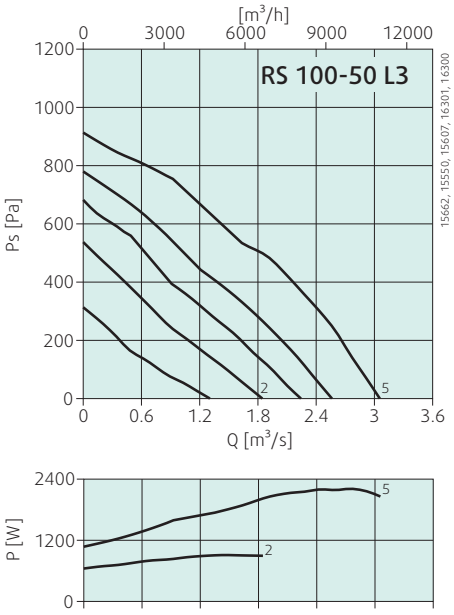
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	59	73	68	70	69	68	64	57
L_{wA} Outlet dB(A)	82	60	77	73	74	75	71	66	58
L_{wA} Surrounding dB(A)	68	43	66	60	57	57	57	54	47

Measurement point: 3557 m³/h; 428.7 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	64	75	74	76	74	74	69	62
L_{wA} Outlet dB(A)	87	69	78	79	80	82	78	73	64
L_{wA} Surrounding dB(A)	74	47	70	67	65	64	63	57	46

Measurement point: 4255 m³/h; 494.6 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	69	77	74	78	76	73	68	63
L_{wA} Outlet dB(A)	89	72	80	81	83	83	78	72	63
L_{wA} Surrounding dB(A)	71	58	69	62	62	59	55	51	48

Measurement point: 4977 m³/h; 594.8 Pa



Reference: Karolinska Hospital Stockholm/Solna, Sweden

RSI EC

Rectangular duct fans



- With energy-saving EC motors
- Motor protection via integrated motor electronics
- Can be installed in any mounting position
- Low noise level, for noise-sensitive applications
- Potentiometer included for ease of commissioning

Casing
Casing manufactured from galvanised steel. 50 mm mineral wool acoustic and thermal insulation (40 kg/m³). Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



DS
Flex. connection
Page 525



FFK
Filter cassette
Page 527



GFL
Counter flange
Page 525



LDR
Silencer
Page 526



SRK
Damper
Page 525



VK
Louvre shutter
Page 515



PGK
Duct cooler
Page 530



DXRE
Duct cooler
Page 531



RB
Duct heater
Page 528

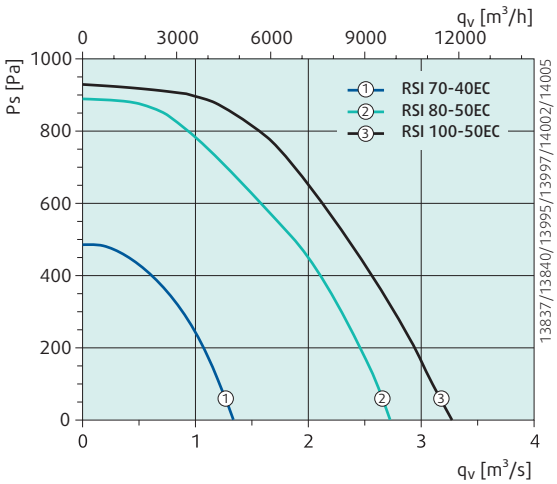


RBM
Duct heater
Page 529



VBR
Water heating battery
Page 532

Quick selection



Electrical accessories



EC-Vent
Room unit
Page 495



MTP
Speed control
Page 488

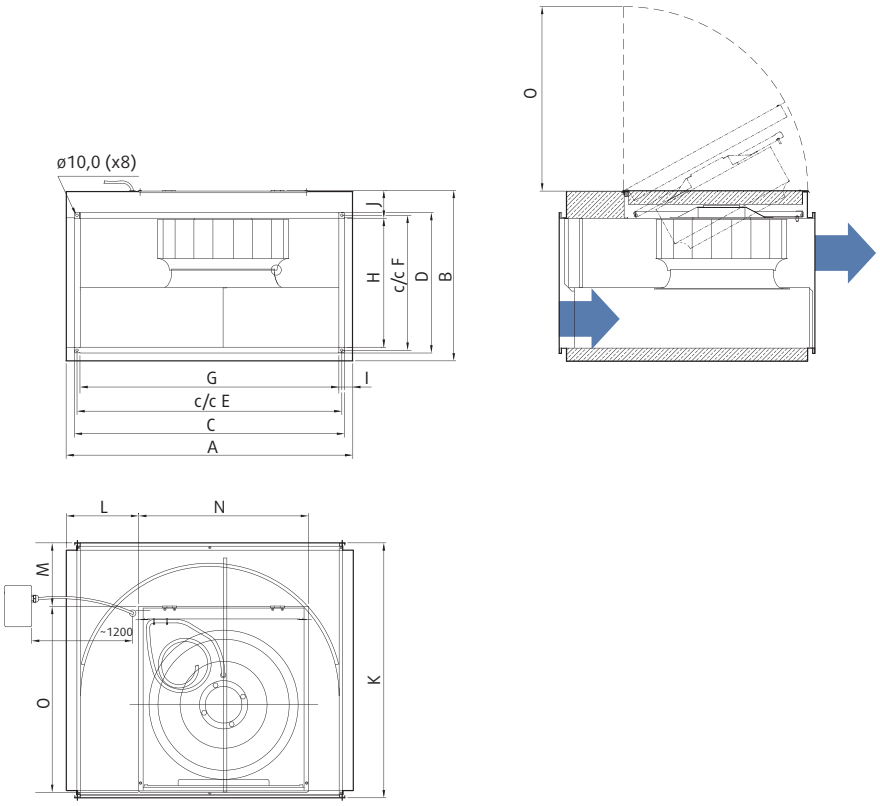


MTV
Controller
Page 488



REV
Switching device
Page 510

Dimensions



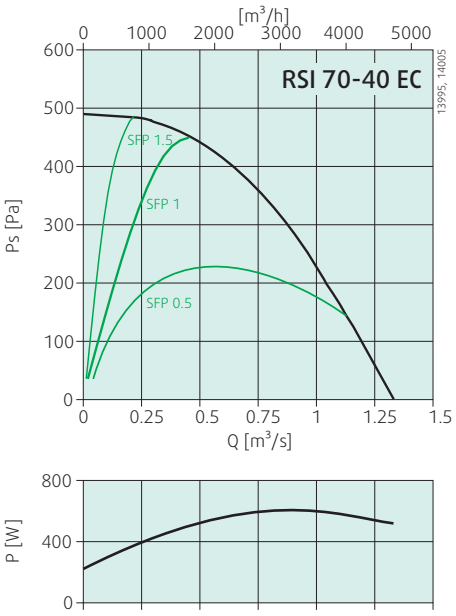
RSI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RSI 70-40 EC	808	564	741	441	720	420	697	397	55.5	114	787	202	170	532	596
RSI 80-50 EC	908	683	841	541	820	520	797	497	55.5	133	882	195	144	656	716
RSI 100-50 EC	1108	683	1041	541	1020	520	998	498	55.5	133	982	302	215	678	746

Technical data

RSI EC		RSI 70-40 EC NEW!	RSI 80-50 EC NEW!	RSI 100-50 EC NEW!
Art. no.		*17827*	*17828*	*17829*
Voltage	V	230	400	400
Frequency	Hz	50/60	50/60	50/60
Phase	~	1	3	3
Input power (P1)	W	605	2144	2724
Current	A	2.75	3.27	4.15
Max. airflow	m^3/h	4810	9806	11783
Fan impeller speed	r.p.m.	1403	1509	1400
Max. temperature of transported air	°C	60	60	40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	53	61.4	63
Weight	kg	72	115	149
Insulation class		F	F	F
Enclosure class, motor	IP	54	54	54
Motor protection		Integral	Integral	Integral

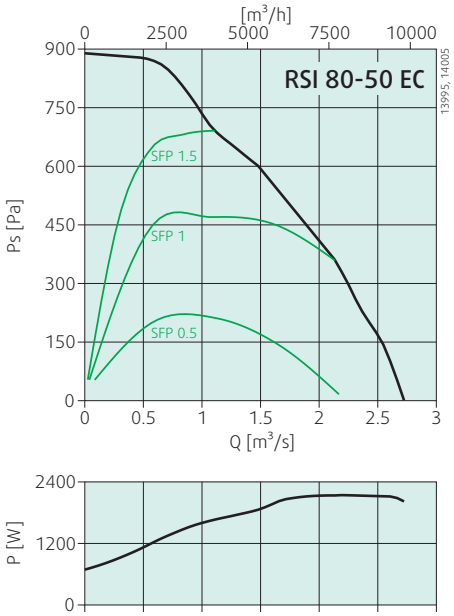


Performance



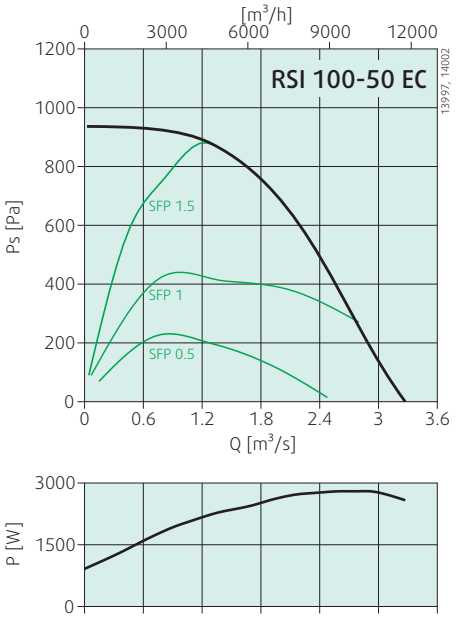
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	52	64	64	65	59	57	53	47
L_{wA} Outlet dB(A)	83	61	70	80	77	76	73	65	57
L_{wA} Surrounding dB(A)	60	36	51	54	55	52	50	46	43

Measurement point: 2766 m³/h; 342 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	71	78	76	78	72	72	68	61
L_{wA} Outlet dB(A)	93	72	81	88	87	87	82	76	67
L_{wA} Surrounding dB(A)	68	52	62	61	62	60	59	54	48

Measurement point: 5609 m³/h; 583 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	76	80	73	74	69	69	65	59
L_{wA} Outlet dB(A)	93	78	84	87	86	87	83	77	69
L_{wA} Surrounding dB(A)	70	57	66	59	60	61	62	57	52

Measurement point: 4802 m³/h; 870 Pa



Reference: "Thermenwelt Erding", Germany

RSI

Rectangular duct fans



- Speed controllable
- Motor protection via integrated thermal contacts
- Can be installed in any mounting position
- Low noise level, for noise-sensitive applications

Casing
Casing manufactured from galvanised steel. 50 mm mineral wool acoustic and thermal insulation (40 kg/m³). Motors and impellers are mounted in the cover to make cleaning and maintenance easier.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via voltage reduction using a transformer.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



DS
Flex. connection
Page 525



FFK
Filter cassette
Page 527



GFL
Counter flange
Page 525



LDR
Silencer
Page 526



SRK
Damper
Page 525



VK
Louvre shutter
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PGK
Duct cooler
Page 530



DXRE
Duct cooler
Page 531



RB
Duct heater
Page 528



RBM
Duct heater
Page 529



VBR
Water heating battery
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Electrical accessories



STDT
Motor protection
Page 501



REPT
Digital regulator
Page 499



RTRD / RTRDU
Speed control
Page 485



RTRE / RTRD
Speed control
Page 484



REU
Speed control
Page 484



REE
Speed control
Page 487

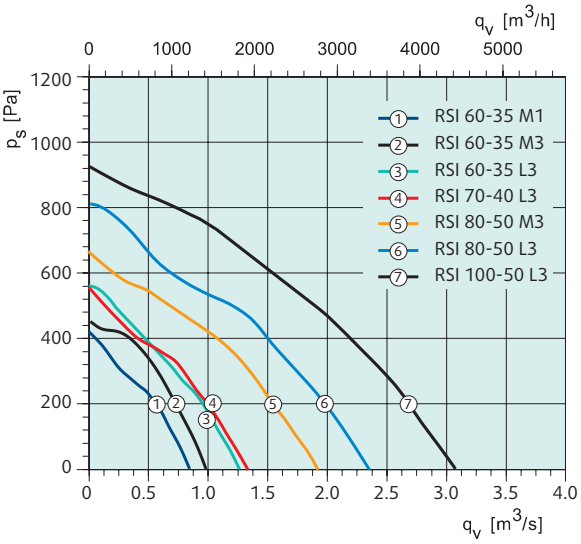


REV
Switching device
Page 510

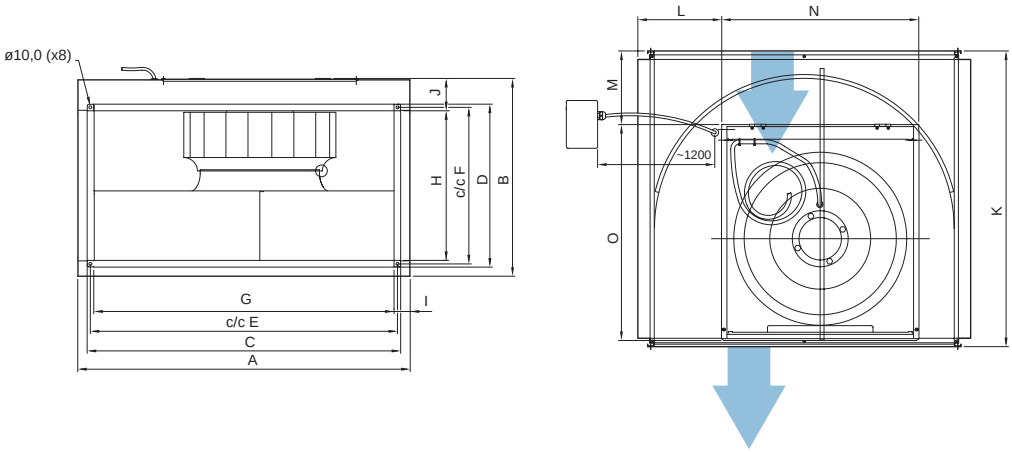


FRQ
Frequency inverter
Page 490

Quick selection



Dimensions



RSI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
RSI 60-35	708	492	640.5	391	620	370	598	347.5	55	92.5	717	139.5	99.5	532	597
RSI 70-40	808	564	741	441	720	420	697	397	55.5	114	787	202	170	532	596
RSI 80-50	908	662	841	541	820	520	797	497	55.5	112.5	882	194	144	656	716
RSI 100-50	1108	683	1041	541	1020	520	998	498	55.5	133	982	302	215	678	746

Technical data

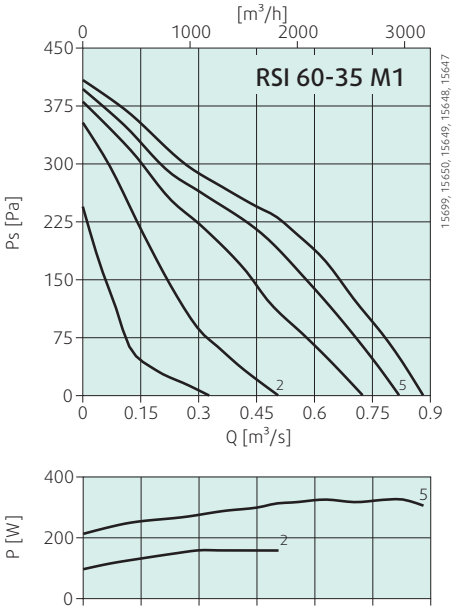
RSI		RSI 60-35 M1	RSI 60-35M3	RSI 60-35 L3	RSI 70-40 L3
Art. no.		*39636*	*1789*	*39637*	*39638*
Voltage	V	230	400	400	400
Frequency	Hz	50	50	50	50
Phase	~	1	3	3	3
Input power (P1)	W	326	399	537	542
Current	A	1.71	0.795	1.25	1.32
Max. airflow	m^3/h	3172	3506	4244	4608
Fan impeller speed	r.p.m.	1417	1371	1413	1413
Max. temperature of transported air	°C	70	70	70	70
* when voltage-controlled	°C	70	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	52	48	52	51
Weight	kg	55.4	57.8	60.4	69.2
Insulation class		F	F	F	F
Enclosure class, motor	IP	54	54	54	54
Motor protection [1]		S-ET10	STDT 16	STDT 16	STDT 16
Speed control, five-step [1]	Transf.	RE 3	RTRD 2	RTRD 2	RTRD 2
Speed control, five-step high/low [1]	Transf.	REU 3	RTRDU 2	RTRDU 2	RTRDU 2
Speed control, stepless	electr.	REE 2	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A

RSI		RSI 80-50 M3	RSI 80-50 L3	RSI 100-50 L3
Art. no.		*39639*	*39640*	*39641*
Voltage	V	400	400	400
Frequency	Hz	50	50	50
Phase	~	3	3	3
Input power (P1)	W	886	1379	2210
Current	A	1.82	3.16	4.27
Max. airflow	m^3/h	7038	8446	11002
Fan impeller speed	r.p.m.	1399	1420	1368
Max. temperature of transported air	°C	70	70	70
* when voltage-controlled	°C	70	70	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	53	60	64
Weight	kg	104	116	141
Insulation class		F	F	F
Enclosure class, motor	IP	54	54	54
Motor protection [1]		STDT 16	STDT 16	STDT 16
Speed control, five-step [1]	Transf.	RTRD 2	RTRD 4	RTRD 7
Speed control, five-step high/low [1]	Transf.	RTRDU 2	RTRDU 4	RTRDU 7
Speed control, stepless	electr.	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-10A

[1] Systemair recommendation. More alternatives can be found on page 478.

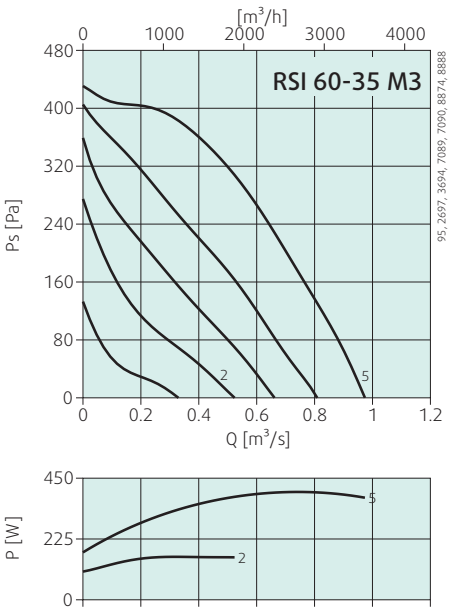


Performance



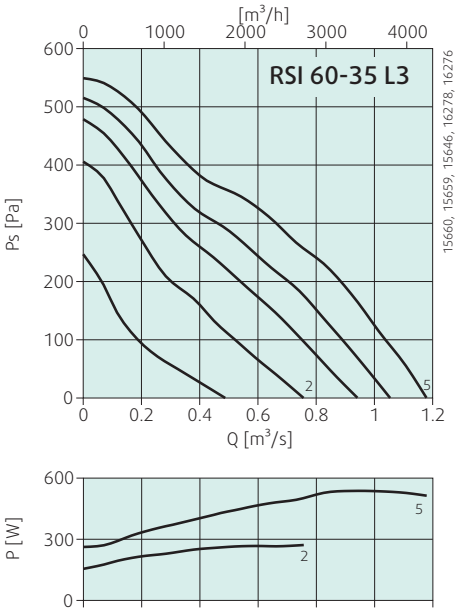
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	52	67	63	61	57	57	51	43
L_{wA} Outlet dB(A)	81	59	77	73	74	73	72	67	58
L_{wA} Surrounding dB(A)	59	31	57	54	48	44	40	33	26

Measurement point: 498.3 l/s; 232.6 Pa



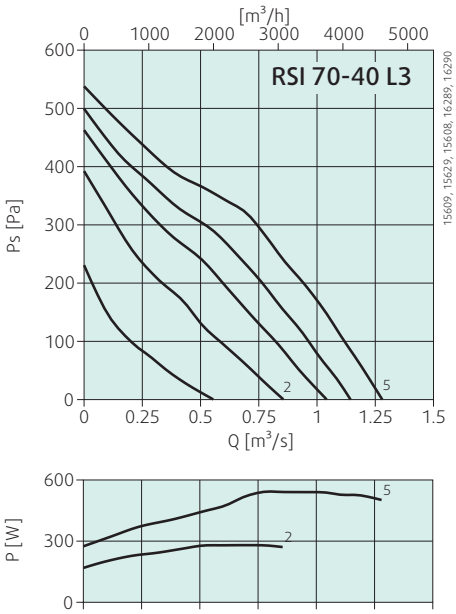
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	55	62	62	60	55	55	51	47
L_{wA} Outlet dB(A)	79	57	65	74	72	71	70	62	53
L_{wA} Surrounding dB(A)	55	29	47	50	48	47	45	37	35

Messbedingungen: 528.3 l/s; 305.5 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	55	70	64	64	61	58	54	48
L_{wA} Outlet dB(A)	80	61	72	71	74	73	70	65	56
L_{wA} Surrounding dB(A)	59	27	57	53	50	47	42	34	27

Messbedingungen: 544.5 l/s; 345.1 Pa

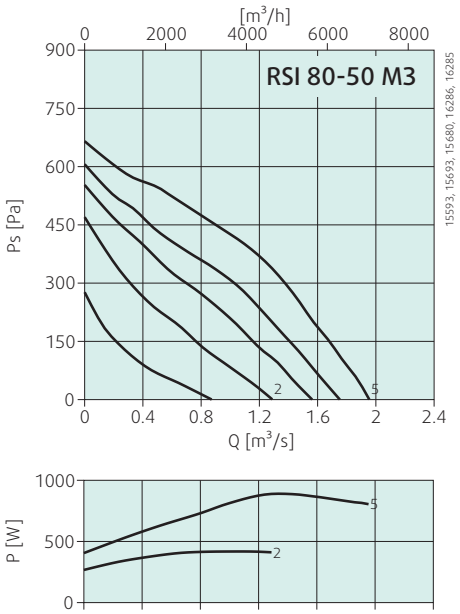


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	54	66	61	61	57	56	51	44
L_{wA} Outlet dB(A)	80	60	71	71	74	75	72	67	58
L_{wA} Surrounding dB(A)	58	35	55	51	49	50	44	40	36

Messbedingungen: 607.1 l/s; 342.4 Pa

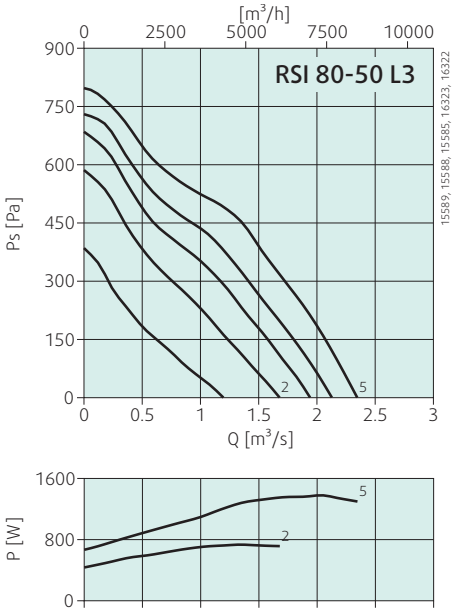


Performance



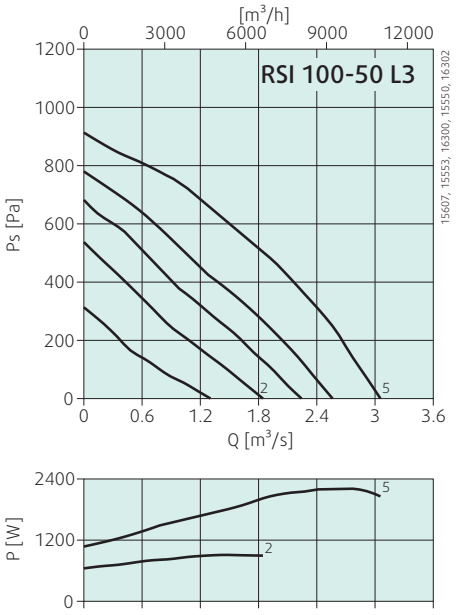
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	56	71	63	65	63	61	57	51
L_{wA} Outlet dB(A)	82	60	77	73	74	75	71	66	58
L_{wA} Surrounding dB(A)	60	40	58	53	50	49	42	39	38

Messbedingungen: 988 l/s; 428.7 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	63	72	69	70	68	66	62	56
L_{wA} Outlet dB(A)	87	69	78	79	80	82	78	73	64
L_{wA} Surrounding dB(A)	67	52	63	59	60	58	55	51	44

Messbedingungen: 1182 l/s; 494.6 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	67	75	70	70	66	63	58	54
L_{wA} Outlet dB(A)	89	72	80	81	83	83	78	72	63
L_{wA} Surrounding dB(A)	72	53	69	64	62	59	55	48	45

Messbedingungen: 1373.7 l/s; 596.6 Pa

KPB

Rectangular duct fans



IE2
2009/640/EG

- Double inlet belt driven range with airflow from 748 to 50,040 m³/h
- Low sound level
- Easy to install

Casing
The casing consists of an aluminium frame with single skin panels made of galvanized steel (double skin available on request). The fan is mounted on 4 anti-vibration rubber mounts. Sizes 20/20 to 30/28 have a baseframe instead. Outlet connected to the casing via an 18 mm thick rubber joint acting as a flexible seal connection (sizes 20/20 to 30/28 have a flexible canvas).

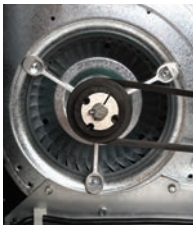
Motor and Impeller
The unit is fitted with a forward curved double inlet impeller and IP55 F class IE2 motor.

Accessories: Outlet and inlet hood, roof, damper, double skin panels, inlet panel with rectangular flange.

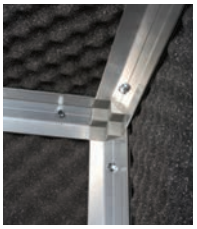
You can find more information in our online catalogue on www.systemair.com

Fan selection via our product selector under www.systemair.com







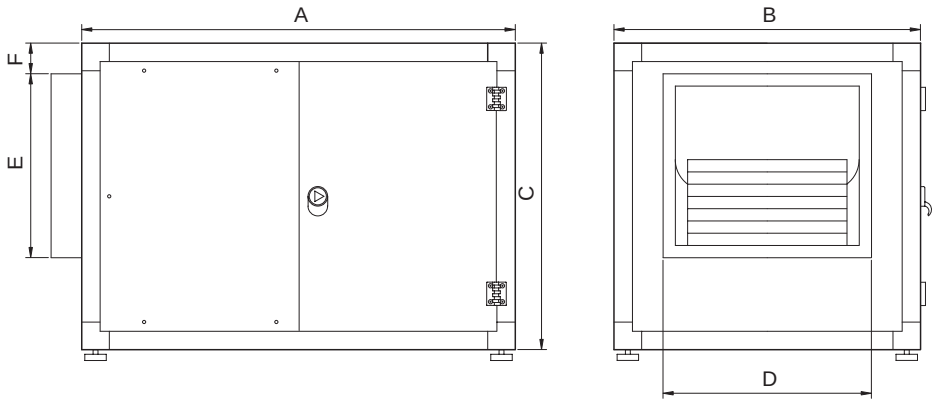


Technical data

KPB		7-7	9-7	9-9	10-8	10-10	12-9	12-12
Voltage	V	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	3~	3~	3~	3~	3~	3~	3~
Power min./max.	kW	0.25-1.5	0.25-1.5	0.25-1.5	0.25-1.5	0.25-2.2	0.37-3	0.37-3
Max. air flow	m³/h	2880	3960	4680	5040	6120	6840	9000
Fan impeller speed	R.p.m.	1450	1450	1450	1450	1450	1450	1450
Max. temp. of transported air	°C	50	50	50	50	50	50	50
Insulation class, motor		F	F	F	F	F	F	F
Enclosure class, motor		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55

KPB		15-11	15-15	18-18	20-20	22-22	25-25	30-28
Voltage	V	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	3~	3~	3~	3~	3~	3~	3~
Power min./max.	kW	0.55-4	0.55-5.5	0.75-7.5	1.5-7.5	2.2-11	2.2-11	2.2-15
Max. air flow	m³/h	9360	12960	19440	24840	29880	39960	50040
Fan impeller speed	R.p.m.	1450	1450	1450	1450	1450	1450	1450
Max. temp. of transported air	°C	50	50	50	50	50	50	50
Insulation class, motor		F	F	F	F	F	F	F
Enclosure class, motor		IP 55	IP 55	IP 55	IP 55	IP 55	IP 55	IP 55

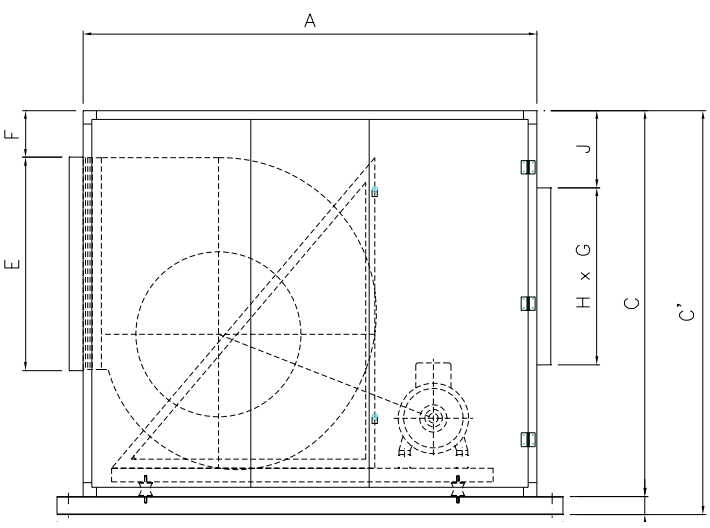
Dimensions

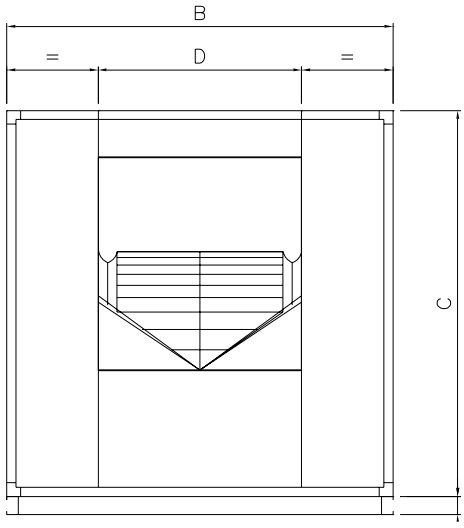


KPB	A	B	C	D	E	F
7-7	600	450	450	272	251	68
9-7 / 9-9	700	550	550	336	304	94
10-8 / 10-10	750	650	600	371	330	85
12-9 / 12-12	900	800	700	434	383	112
15-11 / 15-15	1000	950	800	508	443	128
18-18	1150	1100	1000	594	518	120

Inlet options

Manual damper		Rectangular inlet	
L Length	H Height	L Length	H Height
300	288	390	390
400	416	490	490
500	416	590	540
650	544	740	640
800	672	890	740
900	800	1000	900





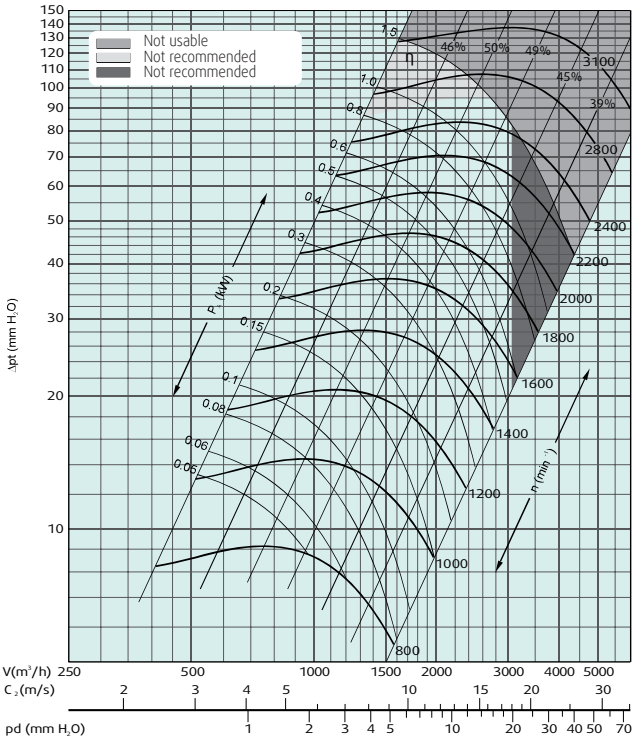
KPB	A	A'	B	C	C'	D	E	F	G	H	J
20-20	1550	1780	1350	1250	1330	610	610	193	1270	900	175
22-22	1650	1880	1350	1250	1330	661	701	112	1270	900	175
25-25	1700	1930	1450	1450	1530	771	800	186	1370	830	40
30-28	2000	2230	1700	1700	1780	896	939	206	1620	780	340

Inlet options

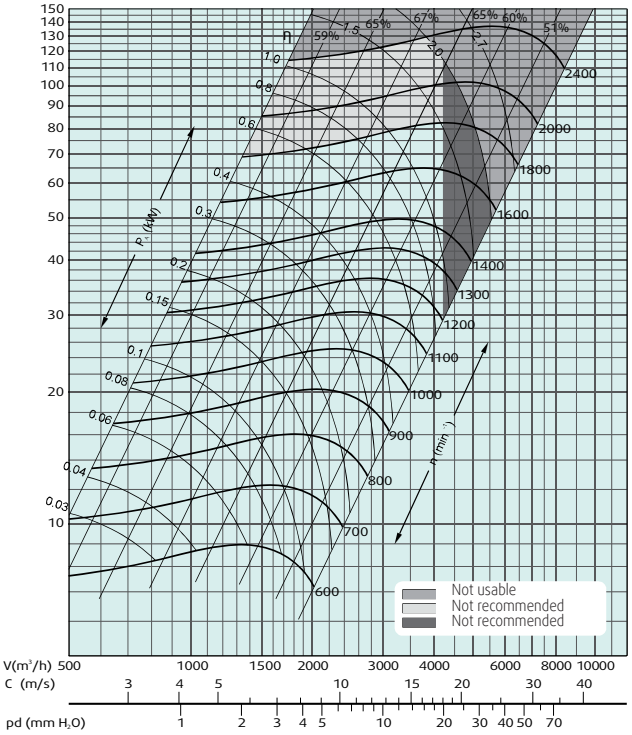
Manual damper	
L Length	H Height
1000	1056
1000	1056
1200	1184
1400	1312

Performance

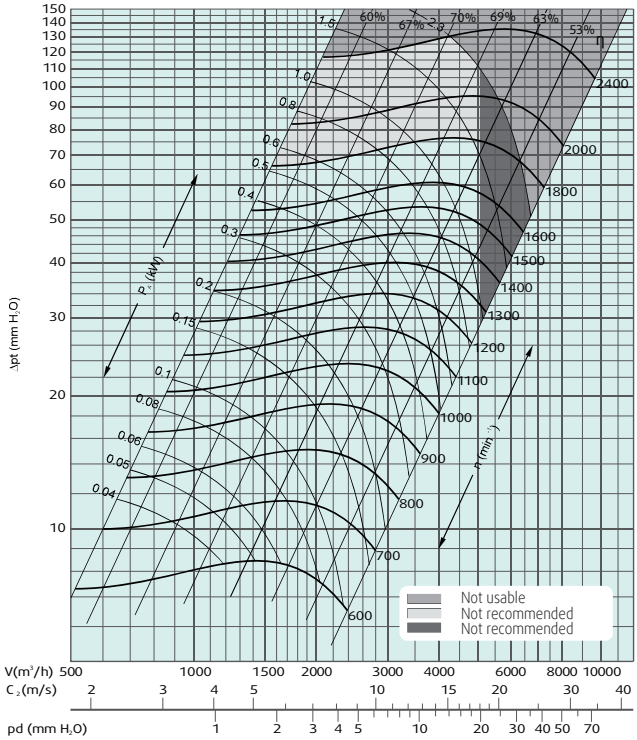
7-7



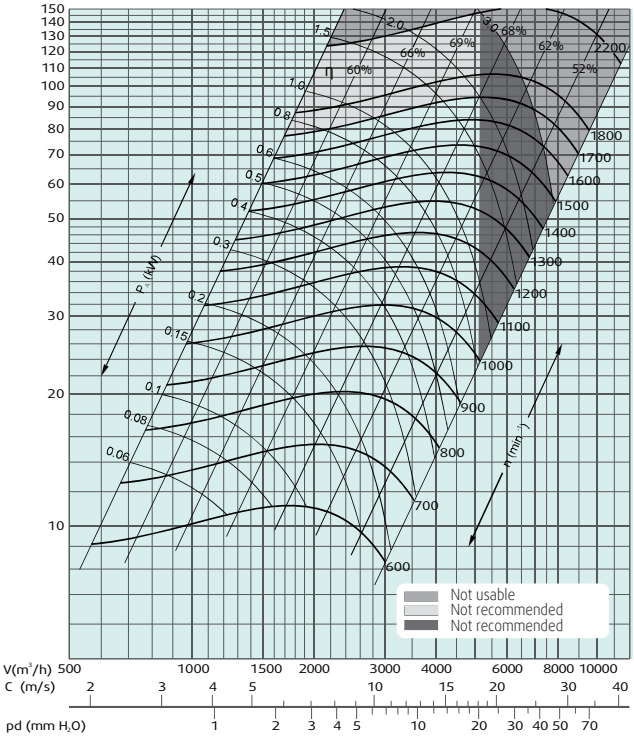
9-7



9-9

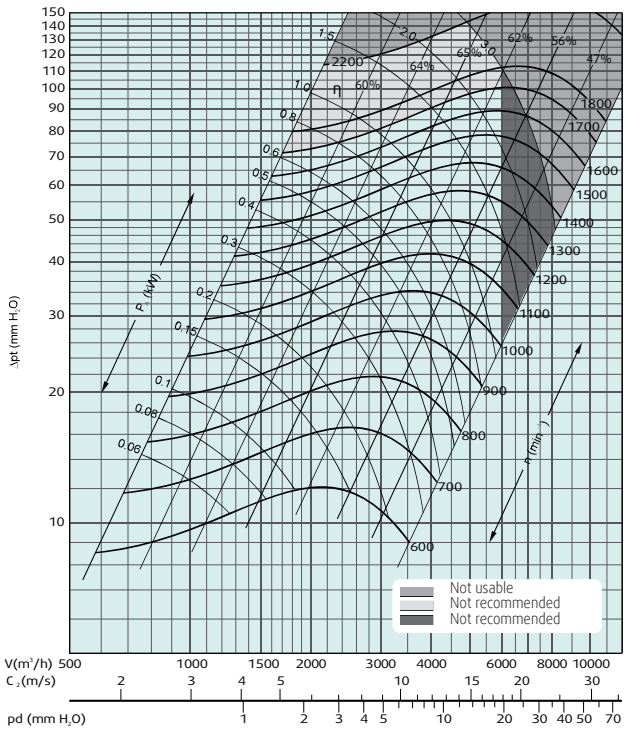


10-8

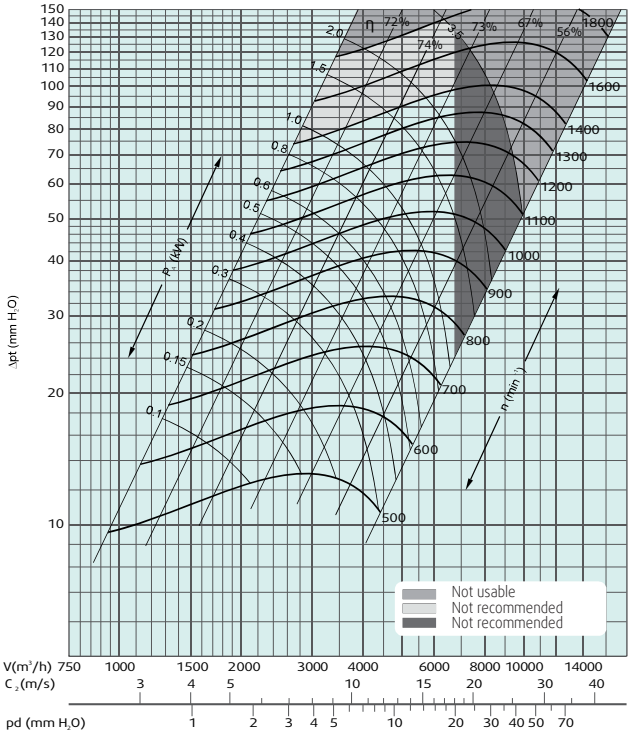


Performance

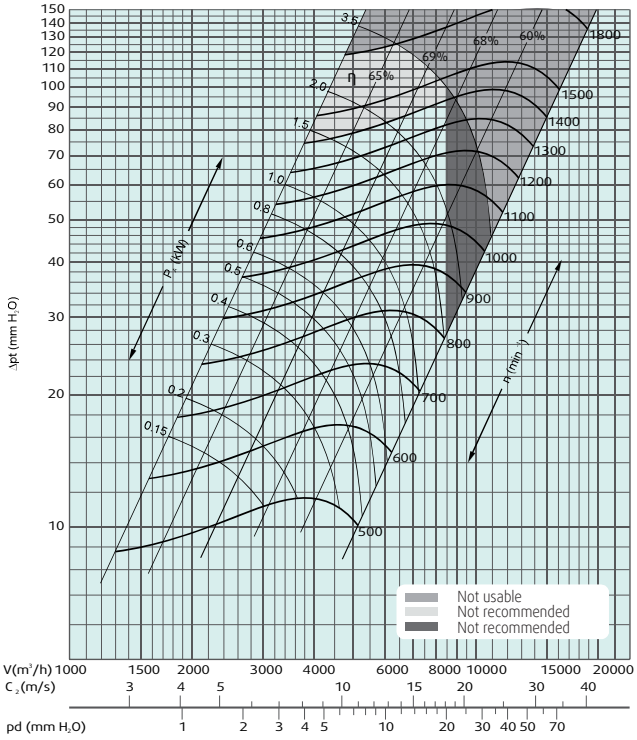
10-10



12-9



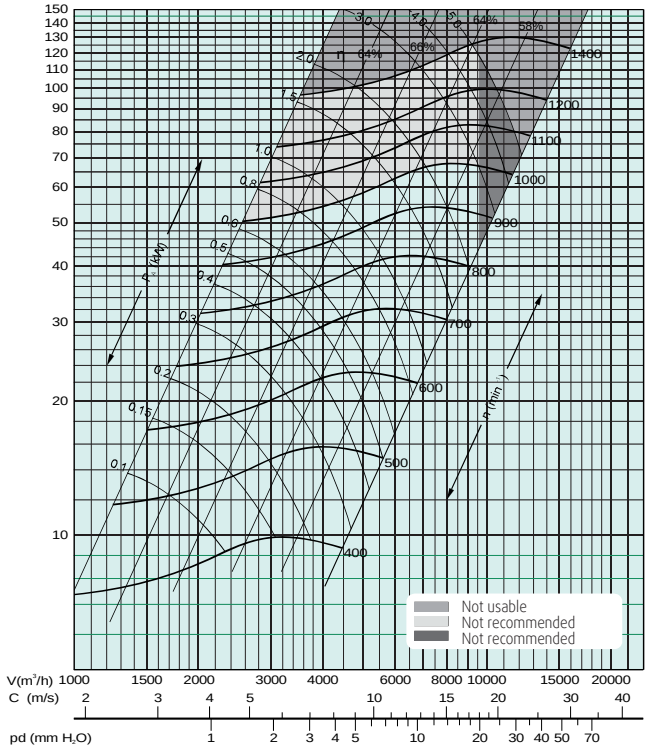
12-12



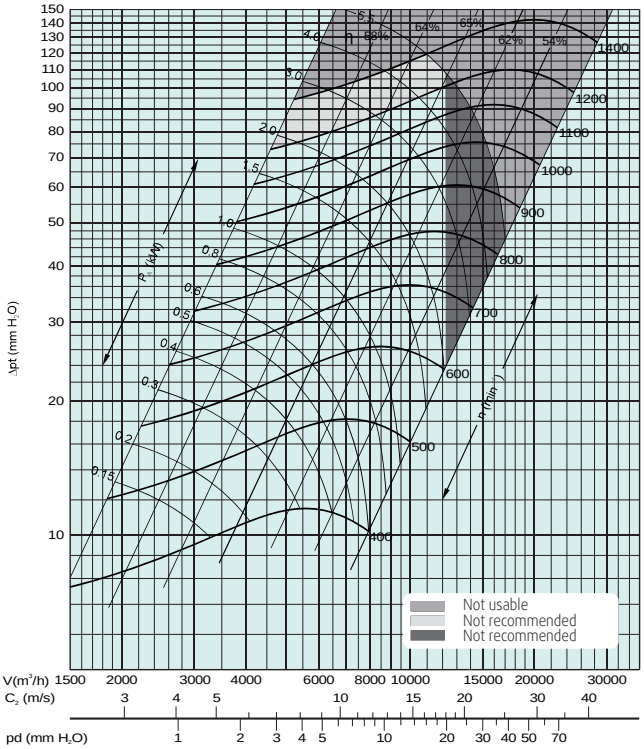
Note: All fan curves are for 50 Hz. For 60 Hz the transmission will be adjusted to the working point.

Performance

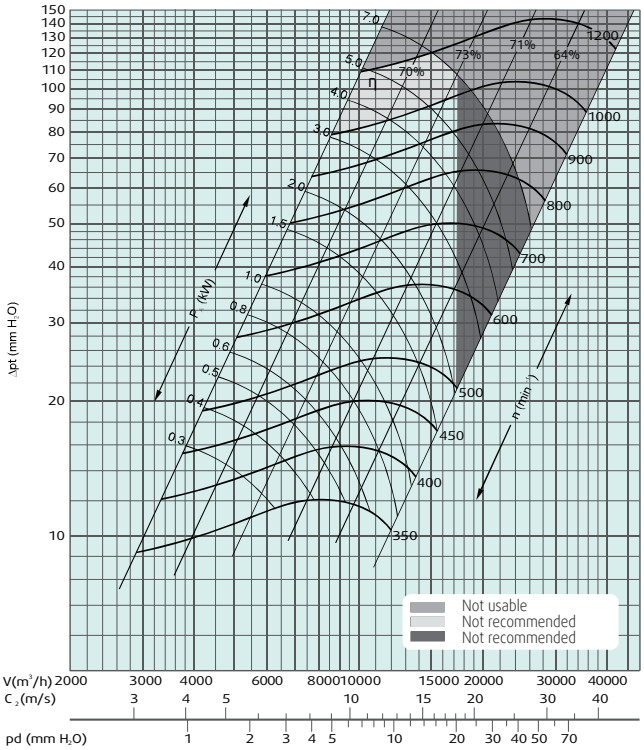
15-11



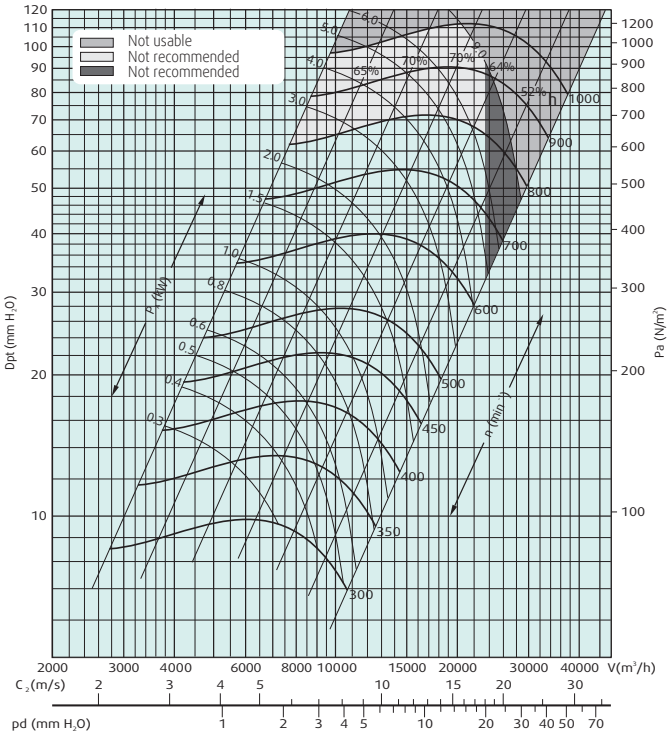
15-15



18-18

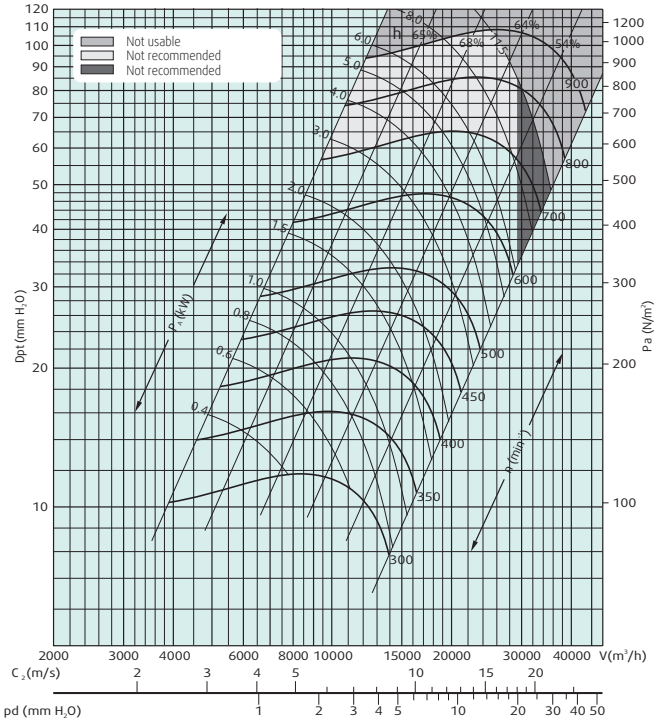


20-20

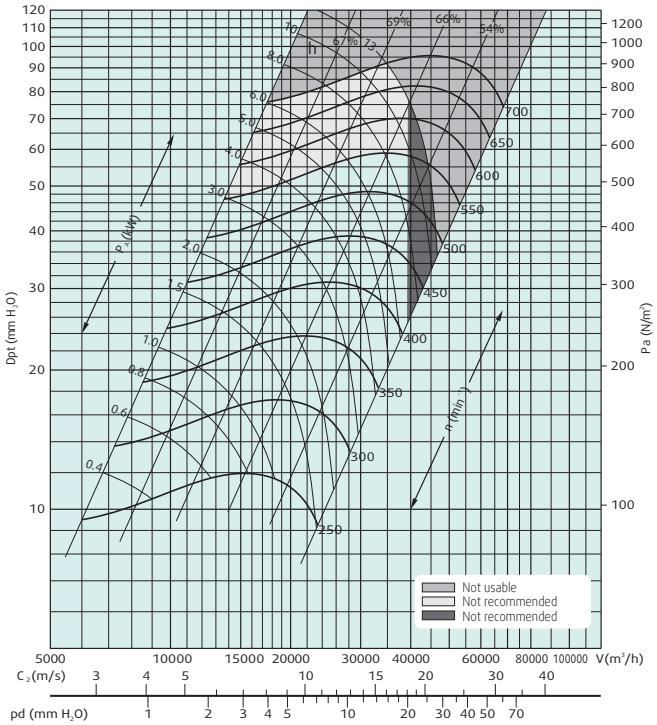


Performance

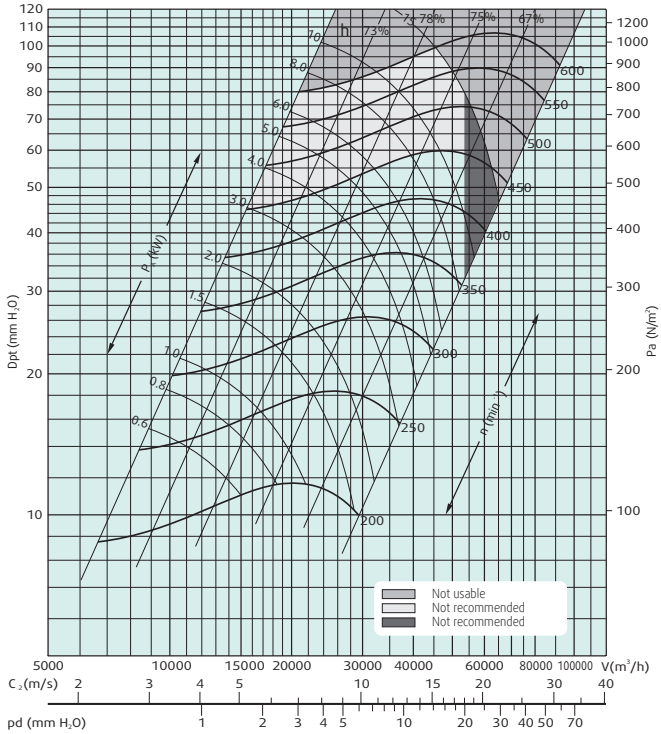
22-22



25-25



30-28



Note: All fan curves are for 50 Hz. For 60 Hz the transmission will be adjusted to the working point.

KDRE

Square duct fans



- Speed-controllable
- Integral thermal contacts
- Can be installed in any positions
- Maintenance-free and reliable

Casing
Casing manufactured from galvanised steel.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Mix flow impeller.

Output control
Speed controllable via voltage reduction using a transformer.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



DSK
Flex. connection
Page 542



FFS
Filter cassette
Page 535



LDR
Silencer
Page 526

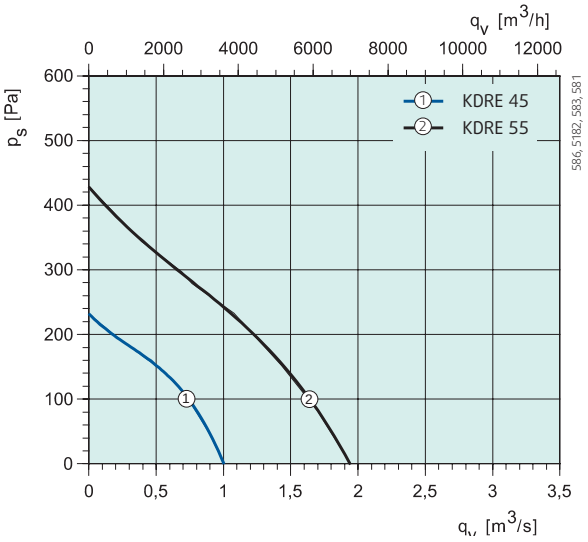


RBK
Duct heater
Page 536



VBK
Water heating battery
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Quick selection



Electrical accessories



STDT
Motor protection
Page 501



RTRD / RTRDU
Speed control
Page 485

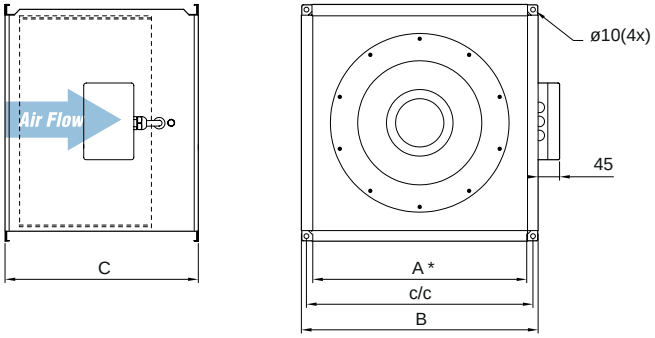


REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490

Dimensions



KDRE	A	c/c	B	C
KDRE 45	447	470	492	400
KDRE 55	550	573	595	485

Technical data

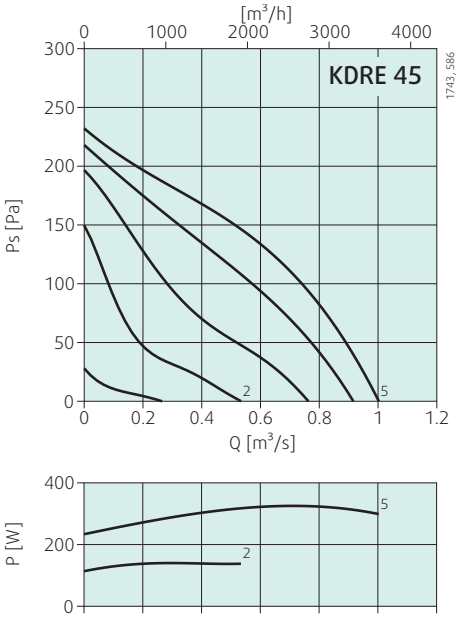
KDRE		KDRE 45	KDRE 55
Art. no.		*1311*	*1315*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Input power (P1)	W	325	861
Current	A	1,55	4,1
Max. airflow	m^3/h	3611	6997
Fan impeller speed	r.p.m.	1387	1280
Max. temperature of transported air	°C	70	45
* when voltage-controlled	°C	70	45
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	45,4	51
Weight	kg	22	40
Insulation class		F	F
Enclosure class, motor	IP	54	54
Capacitor	µF	8	16
Motor protection [1]		S-ET 10	S-ET 10
Speed control, five-step [1]	Transf.	RTRE 3	RTRE 5
Speed control, five-step high/low [1]	Transf.	REU 3	REU 5
Speed control, stepless [1]		REE 2	-

[**] Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

[1] Systemair recommendation. More alternatives can be found on page 478.

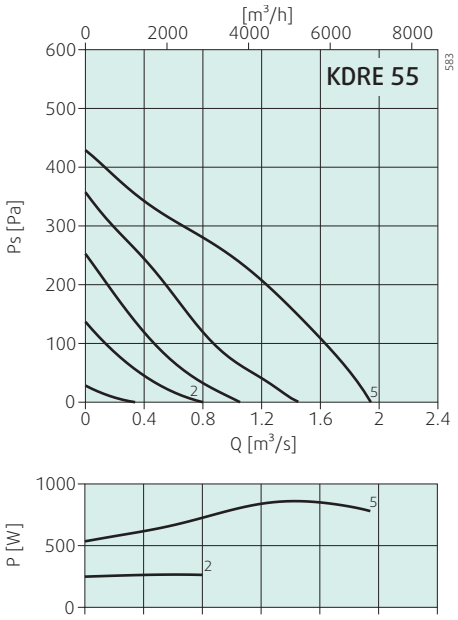


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	49	60	63	64	64	62	57	51
L_{wA} Outlet dB(A)	74	50	61	63	67	71	68	59	50
L_{wA} Surrounding dB(A)	53	33	40	48	46	47	43	36	32

Measurement point: 2052 m³/h; 140 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	58	62	68	70	70	68	61	55
L_{wA} Outlet dB(A)	80	58	65	59	73	76	72	64	57
L_{wA} Surrounding dB(A)	59	43	48	57	46	49	44	40	34

Measurement point: 6127 m³/h; 81 Pa



Reference: Emirates Pearl Hotel, Abu Dhabi

KDRD

Square duct fans



- Speed-controllable
- Integral thermal contacts
- Can be installed in any positions
- Maintenance-free and reliable

Casing
Casing manufactured from galvanised steel.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Mix flow impeller.

Output control
Speed controllable via voltage reduction using a transformer.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

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Accessories



DSK
Flex. connection
Page 542



FFS
Filter cassette
Page 535



LDR
Silencer
Page 526

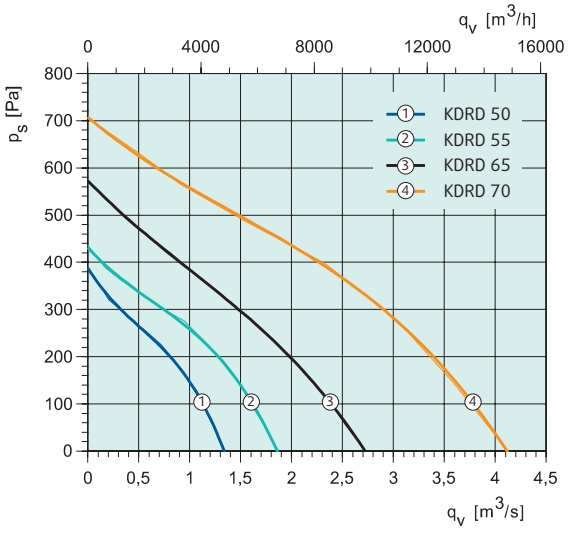


RBK
Duct heater
Page 536



VBK
Water heating battery
Page 534

Quick selection



Electrical accessories



STDT
Motor protection
Page 501



RTRD / RTRDU
Speed control
Page 485

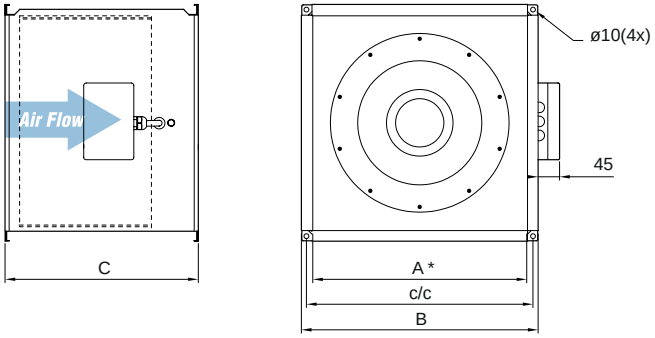


REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490

Dimensions



KDRD	A	c/c	B	C
KDRD 50	502	520	547	450
KDRD 55	550	573	595	485
KDRD 65	661	680	707	510
KDRD 70	696	720	740	530

Technical data

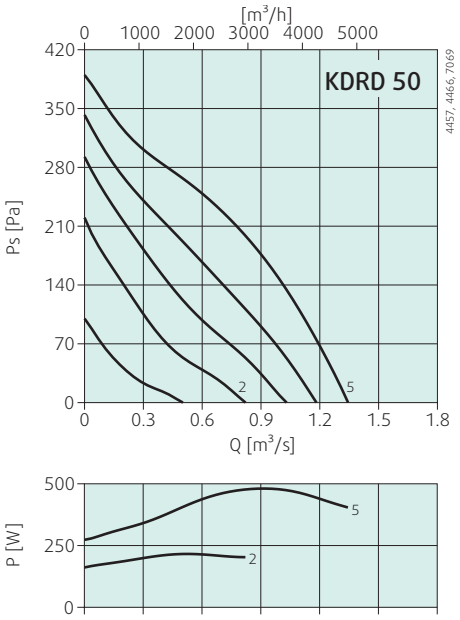
KDRD		KDRD 50	KDRD 55	KDRD 65	KDRD 70
Art. no.		*1314*	*1316*	*1318*	*6690*
Voltage	V	400	400	400	400
Frequency	Hz	50	50	50	50
Phase	~	3	3	3	3
Input power (P1)	W	462	789	1250	2489
Current	A	0.962	1.52	2.23	4.67
Max. airflow	m^3/h	4838	6732	9803	14846
Fan impeller speed	r.p.m.	1397	1315	1341	1383
Max. temperature of transported air	°C	70	49.1	70	70
* when voltage-controlled	°C	70	40.1	55.5	68.6
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	54.4	55.4	53.1	61.8
Weight	kg	27	38	48.6	64
Insulation class		F	F	F	F
Enclosure class, motor	IP	54	54	54	54
Motor protection [1]		STDT16	STDT16	STDT 16	STDT 16
Speed control, five-step [1]	Transf.	RTRD 2	RTRD 2	RTRD 4	RTRD 7
Speed control, five-step high/low [1]	Transf.	RTRDU 2	RTRDU 2	RTRDU 4	RTRDU 7
Speed control,, stepless	electr..	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-10A

[**] Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

[1] Systemair recommendation. More alternatives can be found on page 478.

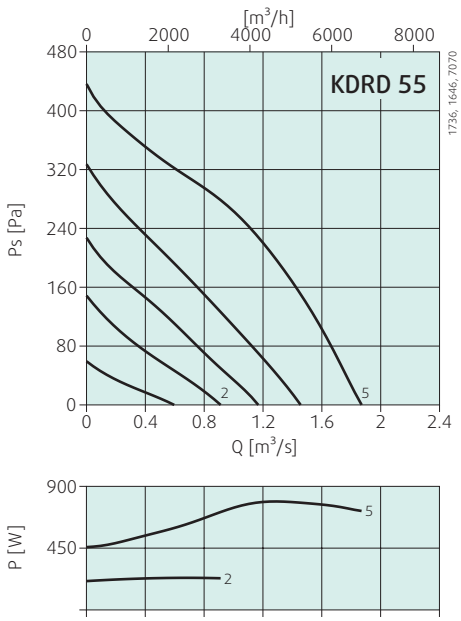


Performance



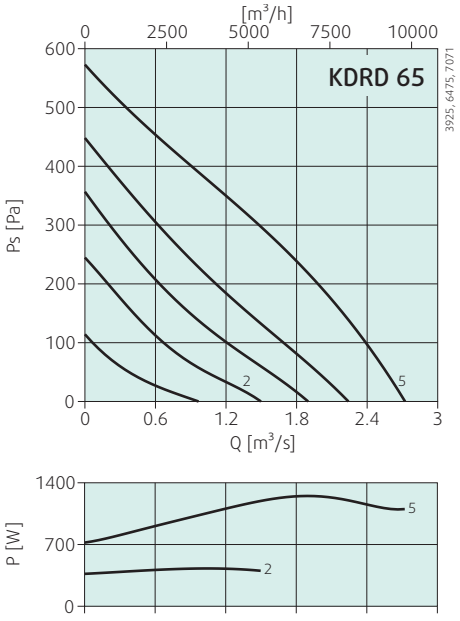
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	59	65	69	71	68	65	58	49
L_{wA} Outlet dB(A)	79	57	68	69	71	75	71	63	54
L_{wA} Surrounding dB(A)	61	30	51	57	53	56	52	44	36

Measurement point: 2580 m³/h; 224.2 Pa



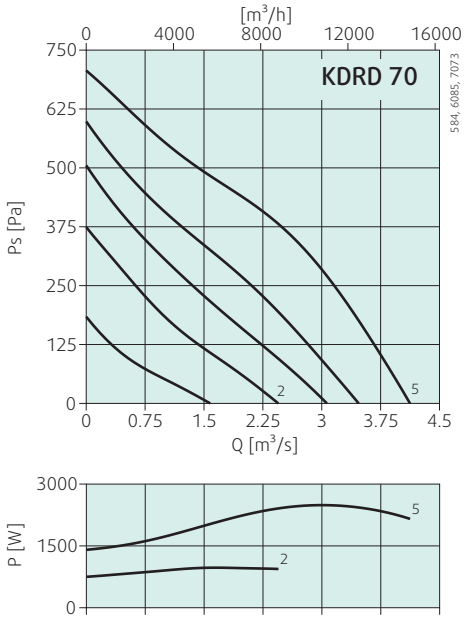
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	54	63	72	72	72	70	63	61
L_{wA} Outlet dB(A)	82	56	66	72	74	79	75	67	64
L_{wA} Surrounding dB(A)	62	57	48	59	51	50	47	44	44

Measurement point: 3397 m³/h; 273.3 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	58	68	74	74	74	73	67	63
L_{wA} Outlet dB(A)	86	58	68	71	79	83	79	72	67
L_{wA} Surrounding dB(A)	60	40	47	58	50	50	49	37	27

Measurement point: 4681 m³/h; 332.4 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	84	75	74	77	77	78	76	69	65
L_{wA} Outlet dB(A)	89	74	76	79	82	85	80	73	67
L_{wA} Surrounding dB(A)	69	44	54	63	62	64	60	54	49

Measurement point: 8373 m³/h; 397.8 Pa



Reference: Al Bustan Palace Hotel, Dubai

MUB EC

Square duct fans



- High efficiency across the entire system characteristic field
- Removable side panels
- Discharge direction can be adjusted on site
- Can be installed in any mounting position
- Low noise operation

Casing
Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backwards curved blades.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V), installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



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Connection, iso.
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WSD
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CXE
Digital regulator
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EC-Vent/Basic
Control unit
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Room Humidistat
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MTP
Speed control
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MTV
Speed control
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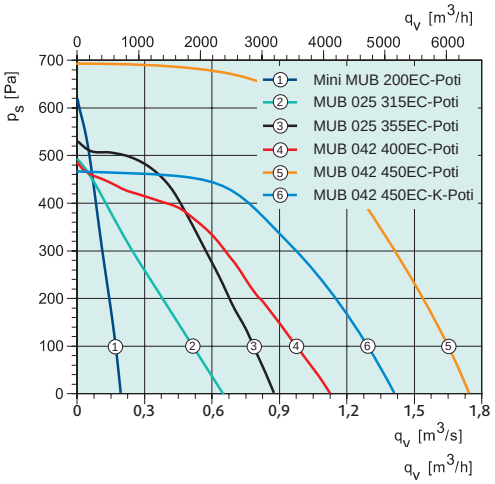


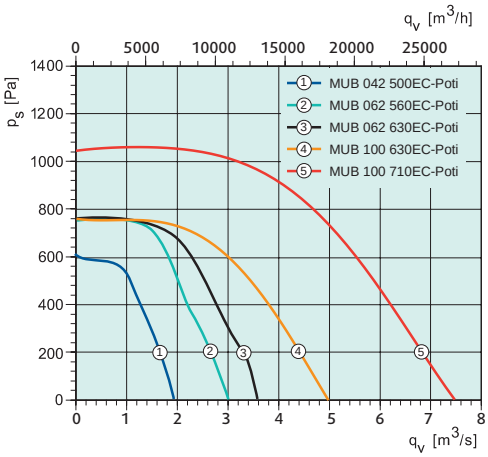
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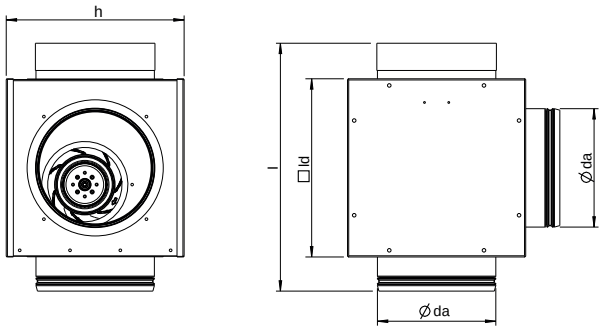
Quick selection





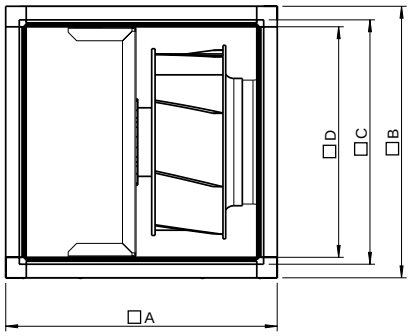
Dimensions

Mini MUB



	h	l	□ld	øda
Mini MUB 200EC	301	392	301	200

MUB 042-100



MUB EC	□A	□B	□C	□D
025 315/355	500	500	420	378
042 400/450/500	670	670	590	548
062 560/630	800	800	720	678
100 630/710	1000	1000	920	878

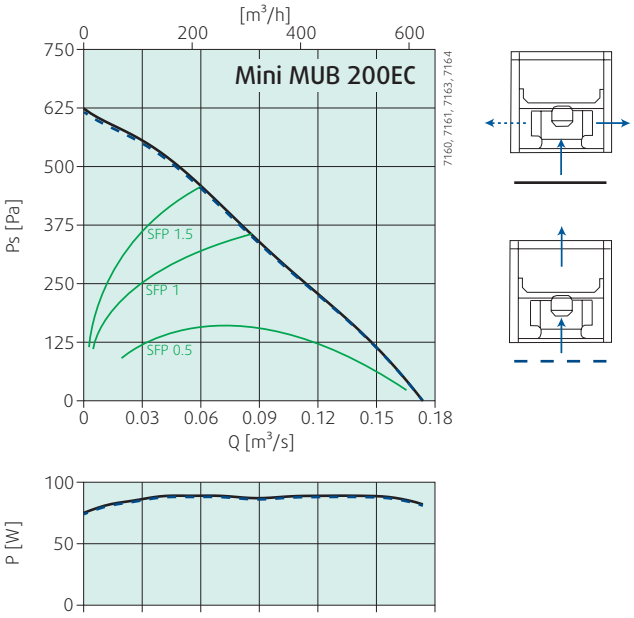
Technical data

MUB EC		Mini MUB 200EC-Poti	MUB 025 315EC-Poti	MUB 025 355EC-Poti	MUB 042 400EC-Poti	MUB 042 450EC-Poti	MUB 042 450EC-K-Poti
Art. no.		*33207*	*37194*	*37195*	*37196*	*37197*	*37209*
Voltage	V	230	230	230	230	400	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	3	1
Input power (P1)	W	89.1	168	389	380	1061	599
Current	A	0.701	1.19	2.37	2.26	1.79	2.71
Max. airflow	m^3/h	594	2293	3182	3881	6336	5080
Fan impeller speed	r.p.m.	3921	1701	1638	1336	1562	1298
Max. temperature of transported air	°C	40	60	60	60	60	60
* when voltage-controlled	°C	40	60	60	60	60	60
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	49	47	53	50	61	57
Weight	kg	8.1	27.1	30.4	50.7	53.8	52.5
Insulation class		B	B	B	B	F	B
Enclosure class, motor	IP	44	44	44	44	54	54
Speed control [1]	electr.	CXE/AVC	CXE/AVC	CXE/AVC	CXE/AVC	CXE/AVC	CXE/AVC
Speed control [1]	electr.	MTP 10/20	MTP 10/20	MTP 10/20	MTP 10/20	MTP 10/20	MTP 10/20

MUB EC		MUB 042 500EC-Poti	MUB 062 560EC-Poti	MUB 062 630EC-Poti	MUB 100 630EC-Poti	MUB 100 710EC-Poti	
Art. no.		*37198*	*37199*	*37200*	*37400*	*37401*	
Voltage	V	400	400	400	400	400	
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	
Phase	~	3	3	3	3	3	
Input power (P1)	W	1054	1987	2479	2924	6434	
Current	A	1.69	3.05	3.8	4.3	8.96	
Max. airflow	m^3/h	6959	10789	12859	17856	26806	
Fan impeller speed	r.p.m.	1339	1358	1208	1139	1205	
Max. temperature of transported air	°C	60	60	60	60	40	
*when voltage-controlled	°C	60	60	60	60	40	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	56	57	67	68	74	
Weight	kg	55.7	85.4	91.3	148	176	
Insulation class		B	F	F	F	F	
Enclosure class, motor	IP	54	54	54	54	54	
Speed control [1]	electr.	CXE/AVC	CXE/AVC	CXE/AVC	CXE/AVC	CXE/AVC	
Speed control [1]	electr.	MTP 10/20	MTP 10/20	MTP 10/20	MTP 10/20	MTP 10/20	

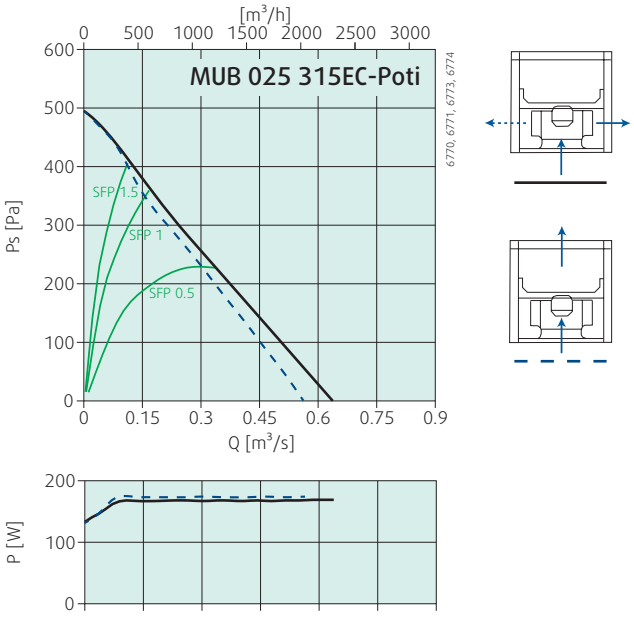
[1] Systemair recommendation. More alternatives can be found on page 478.

Performance



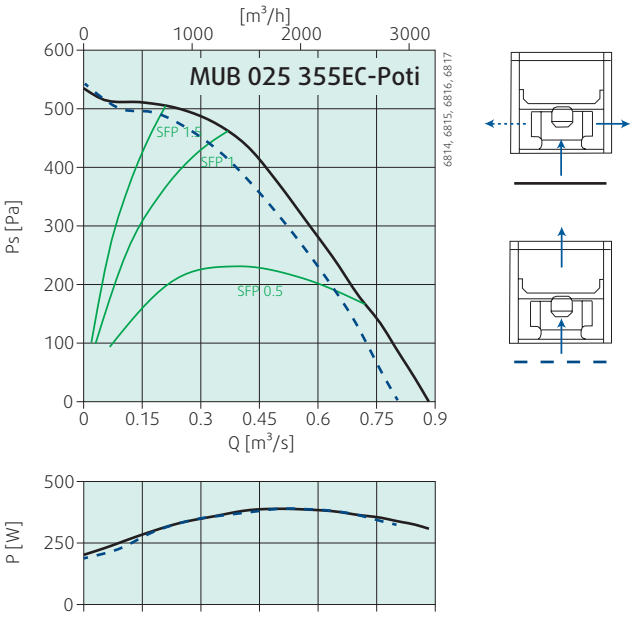
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	35	62	57	63	61	56	55	47
L_{wA} Outlet dB(A)	72	48	70	61	65	64	59	55	46
L_{wA} Surrounding dB(A)	54	22	51	45	48	45	44	33	23

Measurement point: 1102 m³/h; 252 Pa



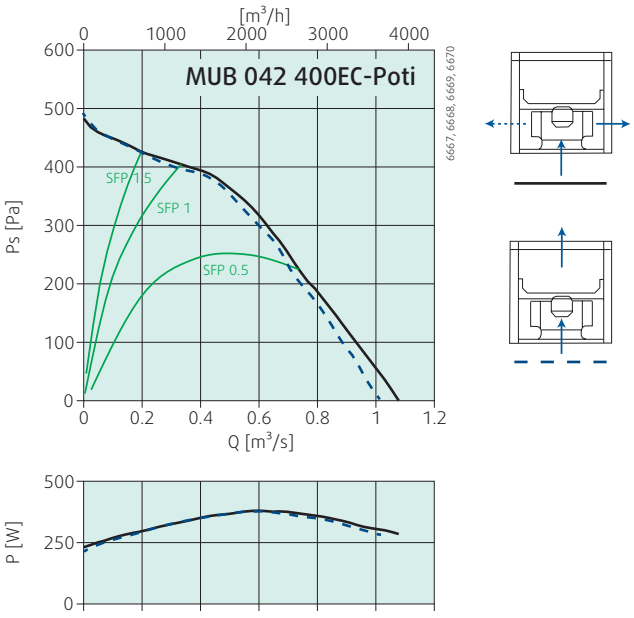
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	35	62	57	63	61	56	55	47
L_{wA} Outlet dB(A)	72	48	70	61	65	64	59	55	46
L_{wA} Surrounding dB(A)	54	22	51	45	48	45	44	33	23

Measurement point: 1102 m³/h; 252 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	43	64	65	70	66	68	66	57
L_{wA} Outlet dB(A)	77	43	69	66	70	70	69	66	58
L_{wA} Surrounding dB(A)	60	35	53	53	54	51	53	50	35

Measurement point: 1778 m³/h; 377 Pa

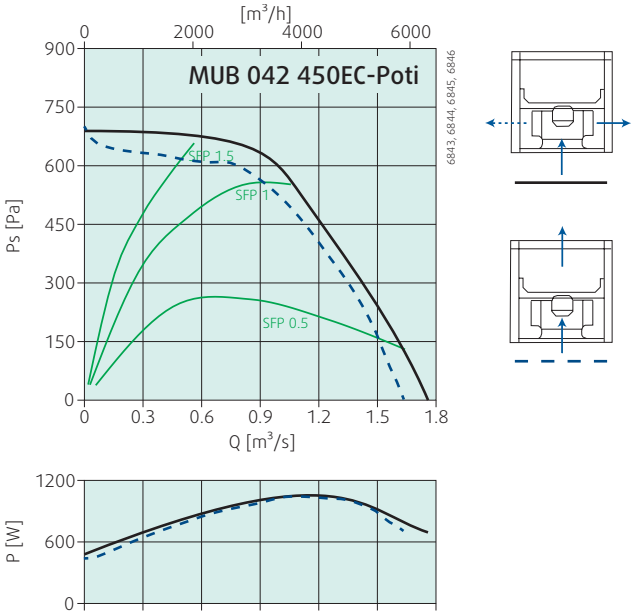


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	60	61	64	65	62	59	51
L_{wA} Outlet dB(A)	74	49	67	64	67	68	65	60	53
L_{wA} Surrounding dB(A)	59	31	51	52	49	54	51	43	29

Measurement point: 2027 m³/h; 337 Pa

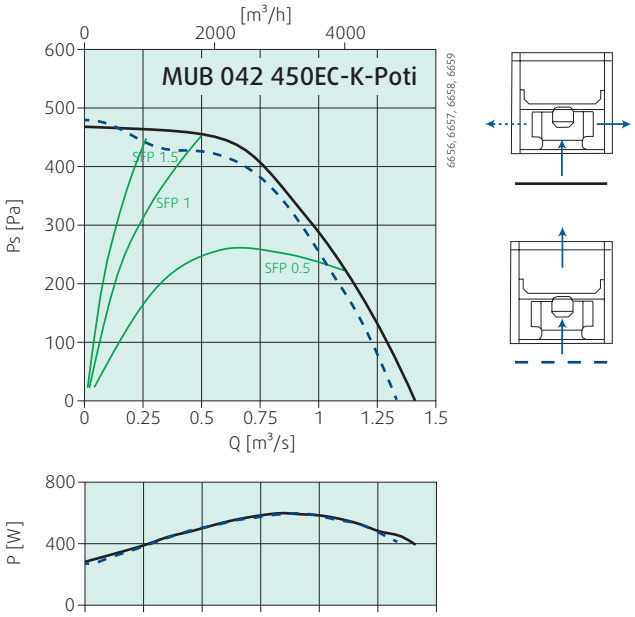


Performance



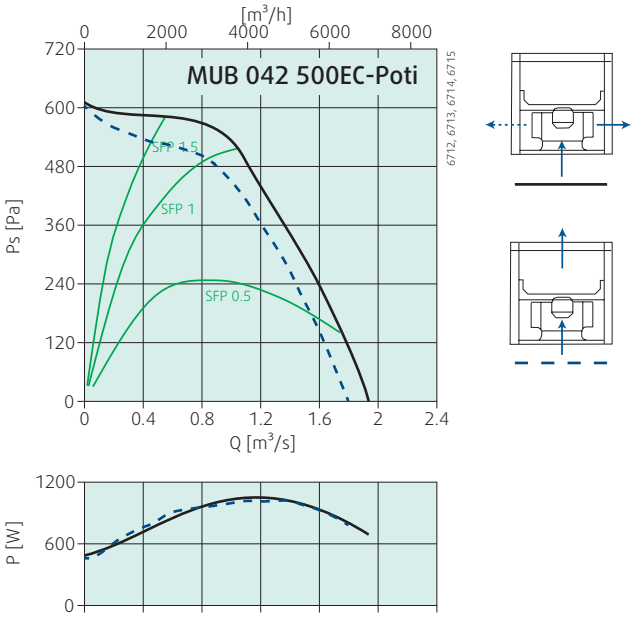
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	78	46	68	70	73	71	70	65	61
L_{WA} Outlet dB(A)	83	68	76	71	76	78	75	68	63
L_{WA} Surrounding dB(A)	70	29	67	62	61	61	59	52	44

Measurement point: 3558 m³/h; 595 Pa



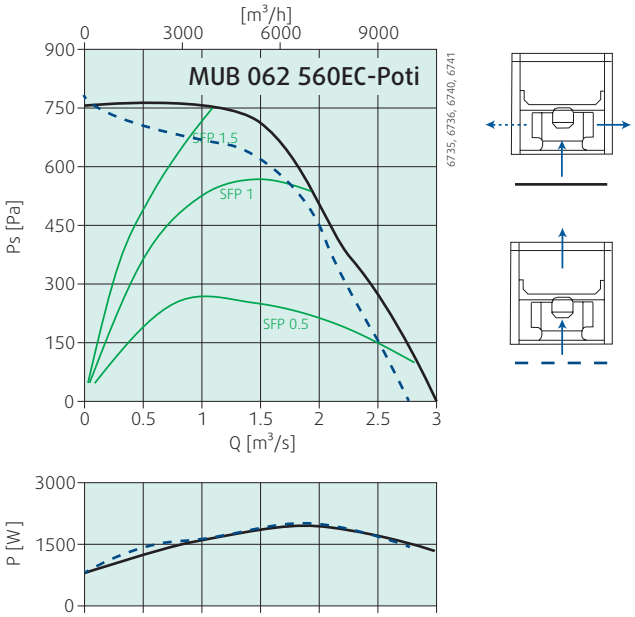
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	78	42	60	63	68	70	75	71	60
L_{WA} Outlet dB(A)	77	47	63	62	68	71	73	68	58
L_{WA} Surrounding dB(A)	64	33	51	52	52	54	61	55	38

Measurement point: 2617 m³/h; 421 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	77	46	71	69	71	70	69	65	60
L_{WA} Outlet dB(A)	80	49	70	71	75	74	72	67	64
L_{WA} Surrounding dB(A)	65	35	55	61	59	57	56	51	39

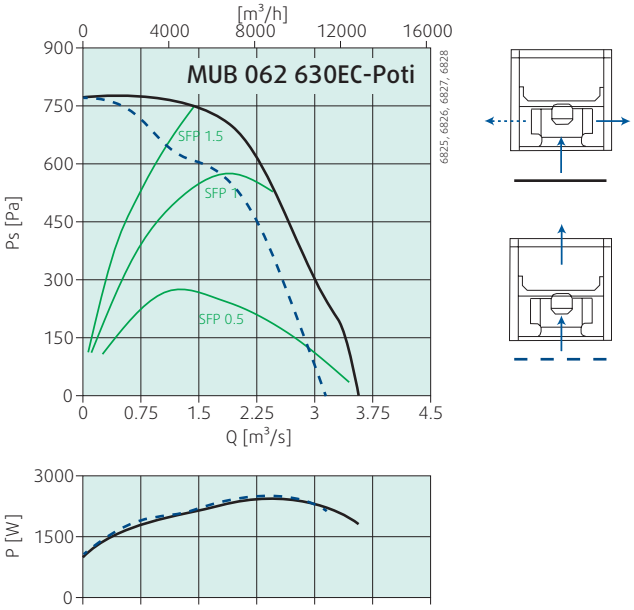
Measurement point: 3888 m³/h; 501 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	80	51	71	75	73	74	72	67	63
L_{WA} Outlet dB(A)	77	57	70	70	71	70	67	64	58
L_{WA} Surrounding dB(A)	71	40	66	67	61	60	58	48	36

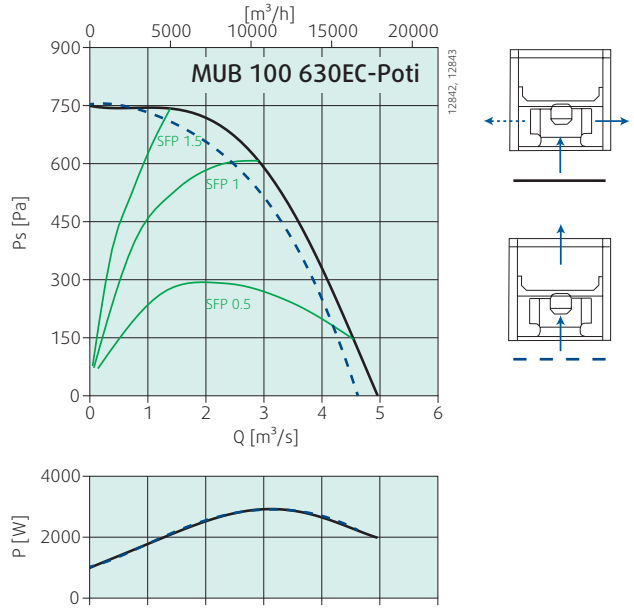
Measurement point: 5904 m³/h; 677 Pa

Performance



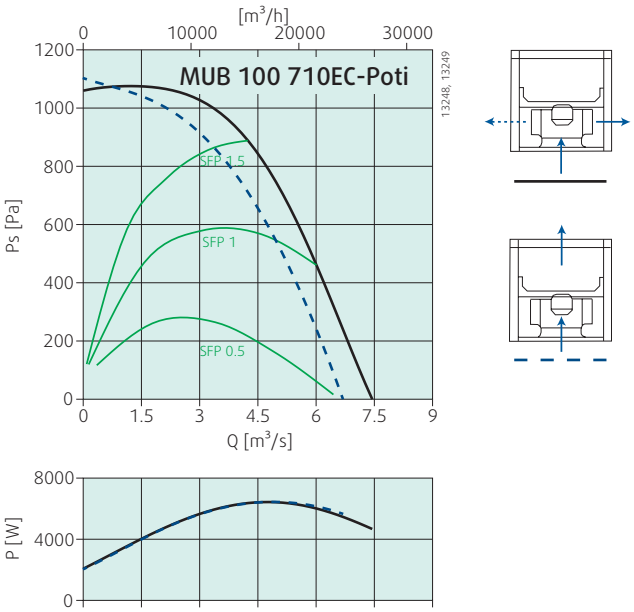
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	54	75	76	73	74	73	69	65
L_{wA} Outlet dB(A)	83	59	75	77	76	74	72	68	64
L_{wA} Surrounding dB(A)	76	47	74	67	62	60	59	49	39

Measurement point: 6876 m³/h; 703 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	55	76	77	74	75	74	70	66
L_{wA} Outlet dB(A)	84	59	76	78	77	75	73	69	65
L_{wA} Surrounding dB(A)	77	48	75	68	63	61	60	50	40

Measurement point: 10728 m³/h; 595 Pa

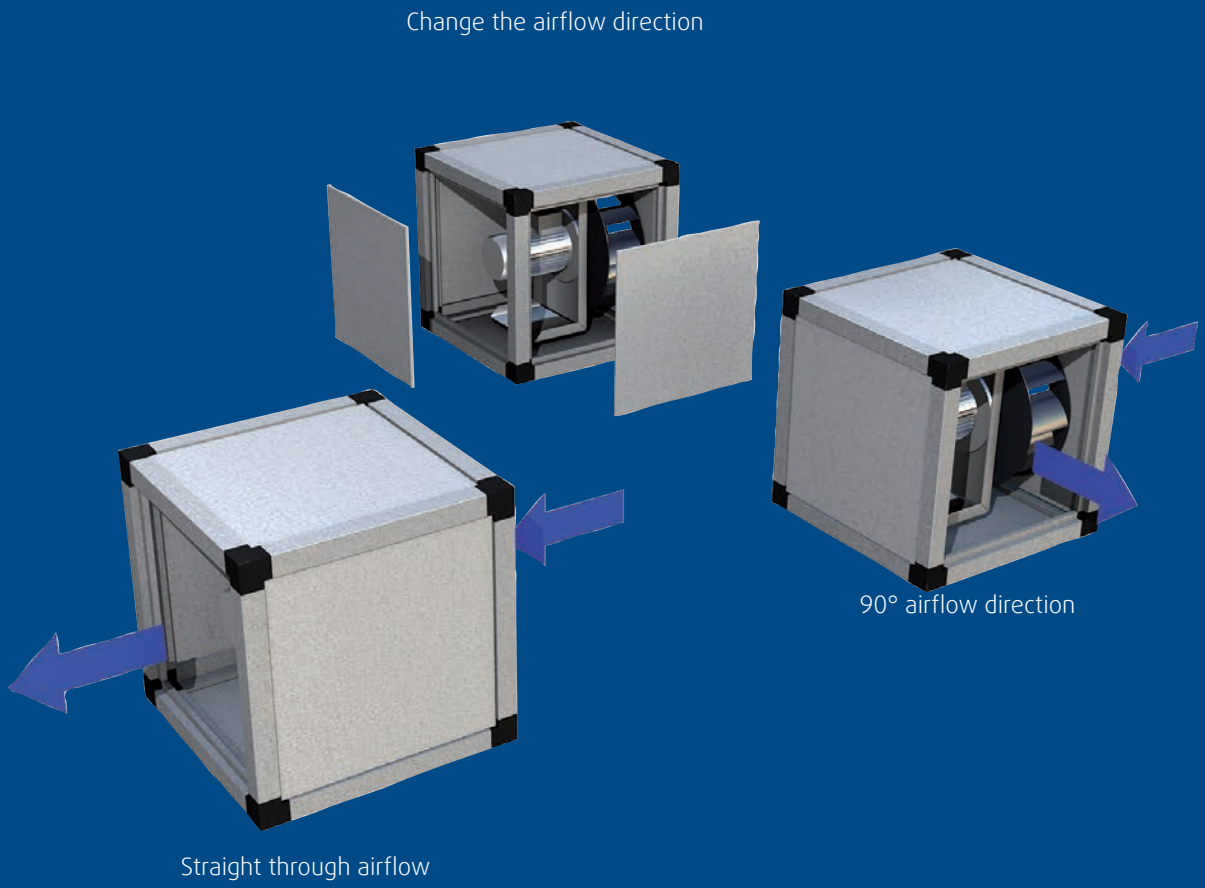


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	58	80	81	78	79	78	74	70
L_{wA} Outlet dB(A)	88	63	80	82	81	79	77	73	69
L_{wA} Surrounding dB(A)	81	52	79	72	67	65	64	54	44

Measurement point: 16092 m³/h; 850 Pa

Installation example for MUB Multibox

Change the airflow direction
by simply changing the positions of the side panels!



MUB-CAV/VAV

Square duct fans



- Inclusive integrated sensor-control module for constant flow applications
- High efficiency across the entire system characteristic field
- Low noise operation

Casing
Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backwards curved blades.

Output control
The MUB-VAV/CAV fans are complete equipped with a sensor-control module for constant airflow.
A conversation kit for constant pressure is inclusive.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



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Flexible adapter
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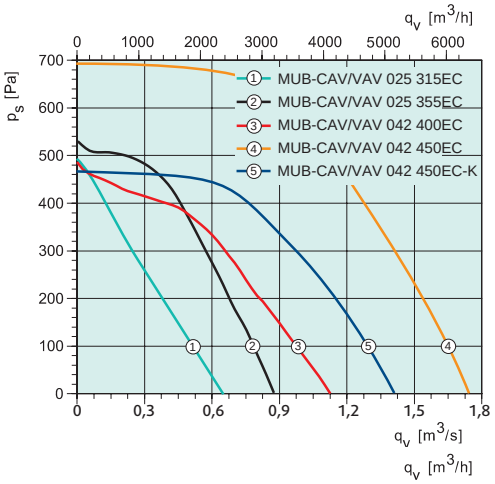


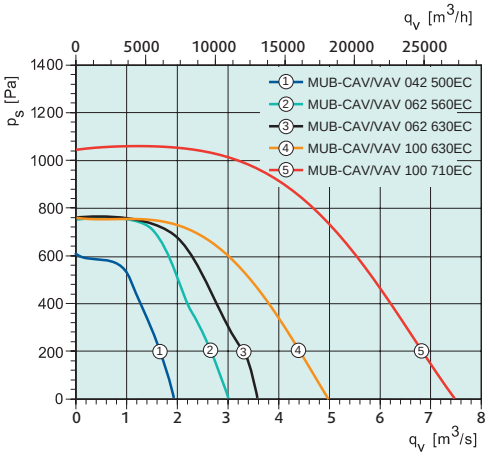
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WSG
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Quick selection





Electrical accessories



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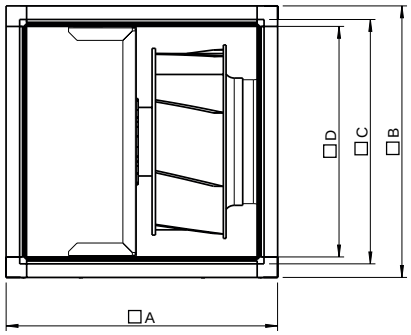


REV
Switching device
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RT
Room Thermostat
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Dimensions



MUB-CAV/VAV	□A	□B	□C	□D
025 315/355	500	500	420	378
042 400/450/500	670	670	590	548
062 560/630	800	800	720	678
100 630/710	1000	1000	920	878

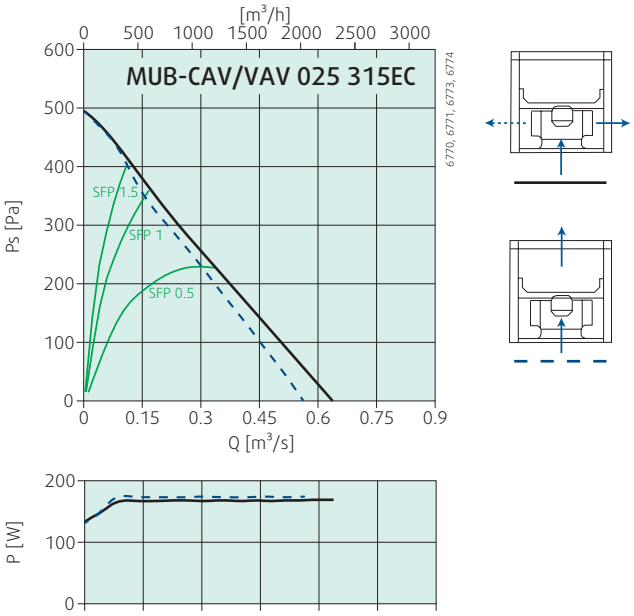
Technical data

MUB-CAV/VAV		MUB-CAV/VAV 025 315EC	MUB-CAV/VAV 025 355EC	MUB-CAV/VAV 042 400EC	MUB-CAV/VAV 042 450EC	MUB-CAV/VAV 042 450EC-K
Art. no.		*37168*	*37169*	*37170*	*37171*	*37485*
Voltage	V	230	230	230	400	230
Frequency	Hz	50/60	50/60	50/60	50/60	50
Phase	~	1	1	1	3	1
Input power (P1)	W	168	389	380	1061	599
Current	A	1.19	2.37	2.26	1.79	2.71
Max. airflow	m^3/h	2293	3182	3881	6336	5080
Fan impeller speed	r.p.m.	1701	1638	1336	1562	1298
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	60	60	60	60	60
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	47.3	53.2	51.8	63.1	56.6
Weight	kg	29	29.5	45.5	56	52.5
Insulation class		B	B	B	F	B
Enclosure class, motor	IP	44	44	44	54	54
Motor protection		Integral	Integral	Integral	Integral	Integral

MUB-CAV/VAV		MUB-CAV/VAV 042 500EC	MUB-CAV/VAV 062 560EC	MUB-CAV/VAV 062 630EC	MUB-CAV/VAV 100 630EC	MUB-CAV/VAV 100 710EC
Art. no.		*37172*	*37173*	*37174*	*37486*	*37175*
Voltage	V	400	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	3	3	3	3	3
Input power (P1)	W	1054	1987	2479	2924	6434
Current	A	1.69	3.05	3.8	4.3	8.96
Max. airflow	m^3/h	6959	10789	12859	17856	26806
Fan impeller speed	r.p.m.	1339	1358	1208	1139	1205
Max. temperature of transported air	°C	60	60	60	60	40
*when voltage-controlled	°C	60	60	60	60	40
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	58.5	64	68.6	68	
Weight	kg	56	101	96.5	167	199
Insulation class		B	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Motor protection		Integral	Integral	Integral	Integral	Integral

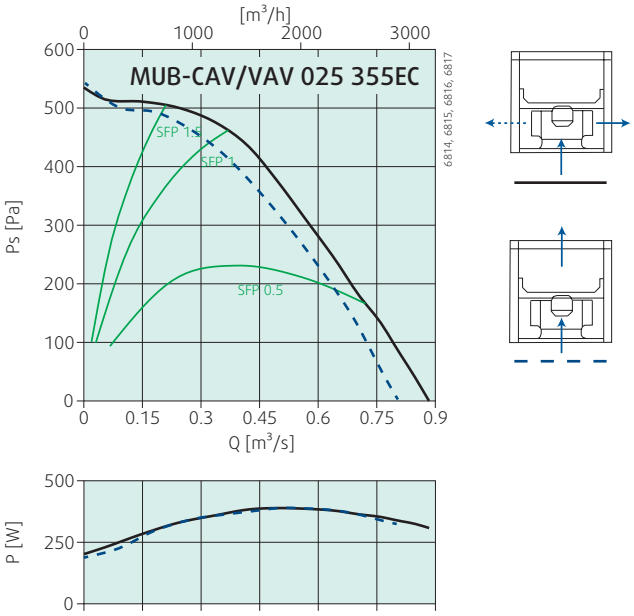


Performance



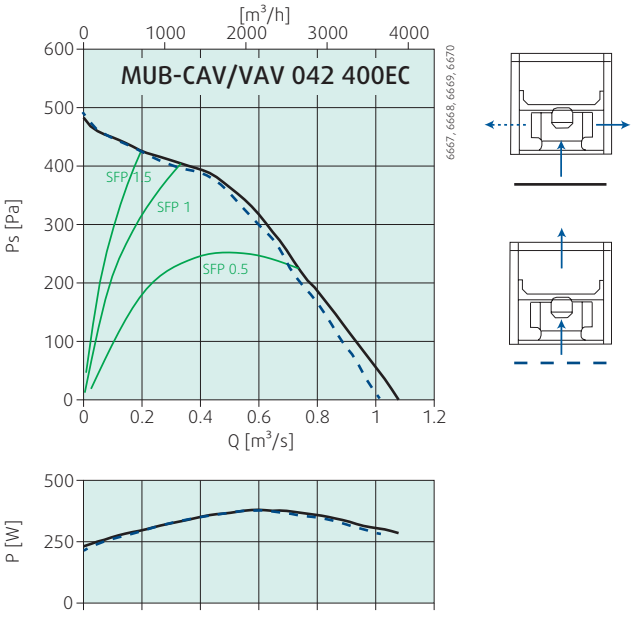
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	35	62	57	63	61	56	55	47
L_{wA} Outlet dB(A)	72	48	70	61	65	64	59	55	46
L_{wA} Surrounding dB(A)	54	22	51	45	48	45	44	33	23

Measurement point: 1103 m³/h; 252 Pa



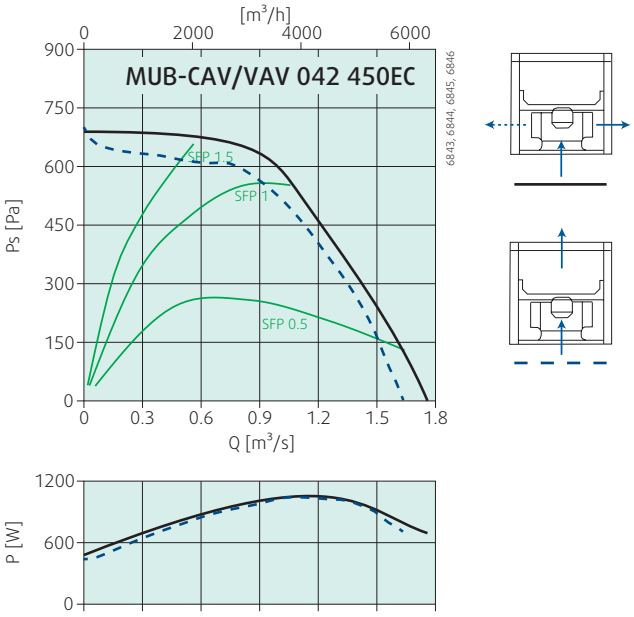
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	43	64	65	70	66	68	66	57
L_{wA} Outlet dB(A)	77	43	69	66	70	70	69	66	58
L_{wA} Surrounding dB(A)	60	35	53	53	54	51	53	50	35

Measurement point: 1777 m³/h; 377 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	60	61	64	65	62	59	51
L_{wA} Outlet dB(A)	74	49	67	64	67	68	65	60	53
L_{wA} Surrounding dB(A)	59	31	51	52	49	54	51	43	29

Measurement point: 2027 m³/h; 337 Pa

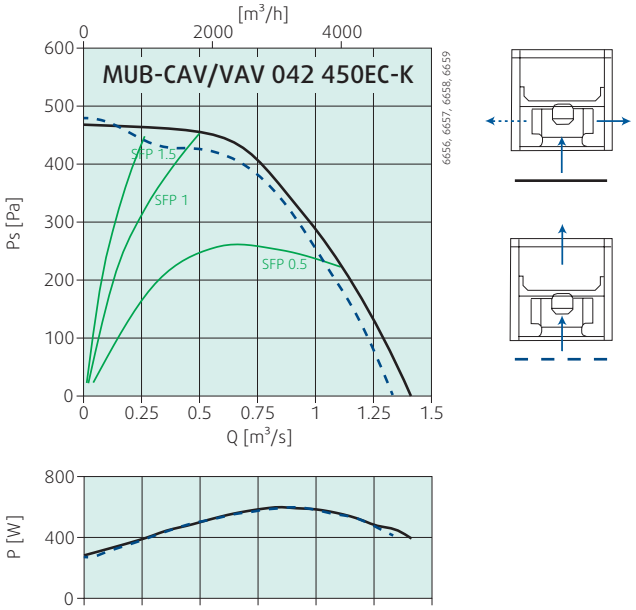


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	46	68	70	73	71	70	65	61
L_{wA} Outlet dB(A)	83	68	76	71	76	78	75	68	63
L_{wA} Surrounding dB(A)	70	29	67	62	61	61	59	52	44

Measurement point: 3558 m³/h; 599 Pa

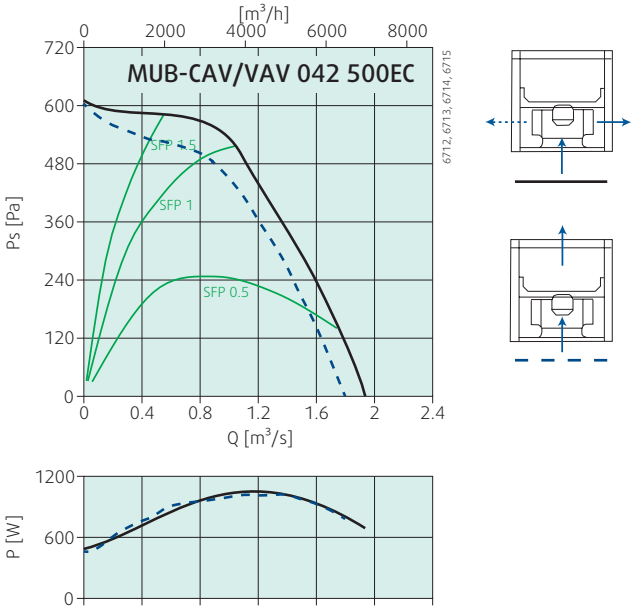


Performance



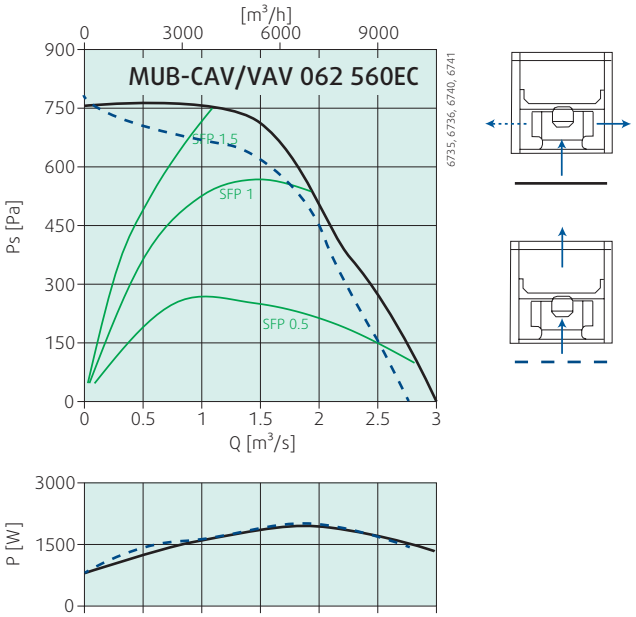
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	78	42	60	63	68	70	75	71	60
L_{WA} Outlet dB(A)	77	47	63	62	68	71	73	68	58
L_{WA} Surrounding dB(A)	64	33	51	52	52	54	61	55	38

Measurement point: 2616 m³/h; 420.6 Pa



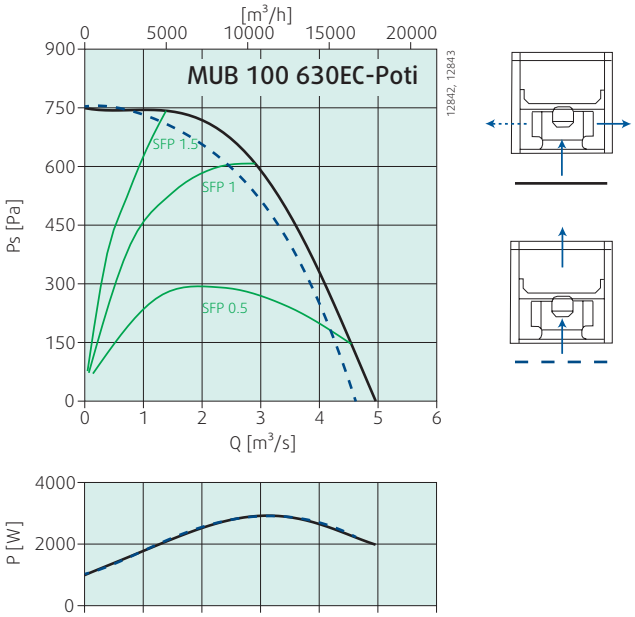
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	77	46	71	69	71	70	69	65	60
L_{WA} Outlet dB(A)	80	49	70	71	75	74	72	67	64
L_{WA} Surrounding dB(A)	65	35	55	61	59	57	56	51	39

Measurement point: 3898 m³/h; 499 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	80	51	71	75	73	74	72	67	63
L_{WA} Outlet dB(A)	77	57	70	70	71	70	67	64	58
L_{WA} Surrounding dB(A)	71	40	66	67	61	60	58	48	36

Measurement point: 5913 m³/h; 678 Pa

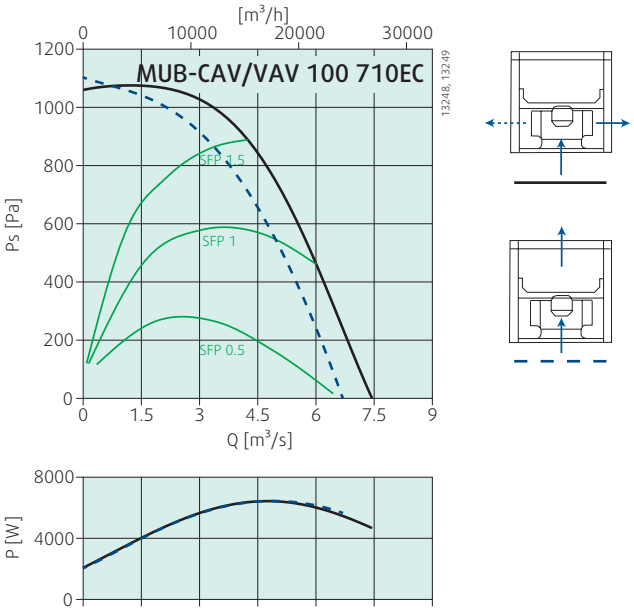


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	82	55	76	77	74	75	74	70	66
L_{WA} Outlet dB(A)	84	59	76	78	77	75	73	69	65
L_{WA} Surrounding dB(A)	77	48	75	68	63	61	60	50	40

Measurement point: 6878 m³/h; 703 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	58	80	81	78	79	78	74	70
L_{wA} Outlet dB(A)	88	63	80	82	81	79	77	73	69
L_{wA} Surrounding dB(A)	81	52	79	72	67	65	64	54	44

Measurement point: 16092 m³/h; 850 Pa


Abluft

MUB

Square duct fans



IE2
2009/640/EG

- Speed controllable
- Removable side panels
- Discharge direction can be adjusted on site
- Can be installed in any mounting position
- Low noise operation

Casing
Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation.

Motor
Depending on the version, equipped with voltage controllable external rotor motors or frequency inverter controllable IE2 standard motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Depending on the version, output control via transformer, star-delta switching or frequency inverter is possible.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device. The IE2 motors are equipped with PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



CCM
Connection
Page 540



CCMI
Connection, iso.
Page 540



FGV
Flex. connection
Page 539



SD-MUB
Vibration pad
Page 541



SRKG
Shutter
Page 540



UGS
Flexible adapter
Page 539



WSD
Weather protection
Page 539



WSG
Weather protection
Page 539

Electrical accessories



STDT
Motor protection
Page 501



S-DT2 SKT
Speed switch
Page 480



RTRD / RTRDU
Speed control
Page 485



RTRE
Speed control
Page 484



REU
Speed control
Page 484



REE
Speed control
Page 487

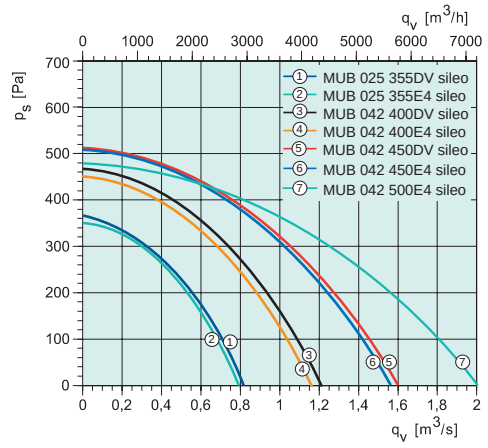


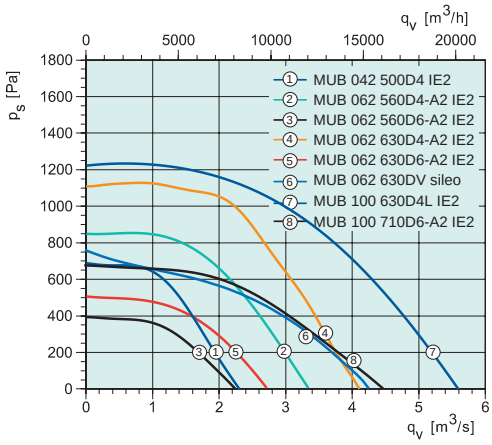
REV
Switching device
Page 510



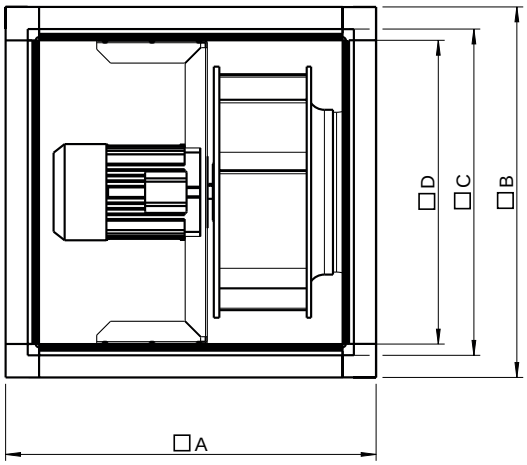
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



MUB	□A	□B	□C	□D
MUB025 355	500	500	420	378
MUB042 400	670	670	590	548
MUB042 450	670	670	590	548
MUB042 500	670	670	590	548
MUB062 560	800	800	720	678
MUB062 630DV	800	800	720	678
MUB062 630D6	800	800	720	678
MUB062 630D4	800	800	720	678
MUB100 630D4	1000	1000	920	878
MUB100 710D6	1000	1000	920	878

Technical data

MUB		MUB 025 355DV sileo	MUB 025 355E4 sileo	MUB 042 400DV sileo	MUB 042 400E4 sileo	MUB 042 450DV sileo
Art. no.		*37728*	*37769*	*37888*	*37886*	*37885*
Voltage	V	400	230	400	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	3	1	3
Input power (P1)	W	274	283	507	477	716
Current	A	0.653	1.2	1.2	2.31	1.38
Max. airflow	m^3/h	2894	2891	4298	4183	5933
Fan impeller speed	r.p.m.	1404	1368	1404	1350	1363
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	60	60	60	60	60
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	44	44	47	47	50
Weight	kg	30	29	47.5	47.5	52.5
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	44	44	54	54	54
Capacitor	µF	-	6	-	9	-
Motor protection [1]		STDT 16	S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step [1]	Transf.	RTRD2	RTRE 1.5	RTRD2	RTRE 3	RTRD2
Speed control, five-step high/low [1]	Transf.	RTRDU 2	REU 1.5	RTRDU 2	REU 3	RTRDU 2
Speed control, two-step [1]		S-DT2SKT	-	S-DT2SKT	-	S-DT2SKT
Speed control, stepless [1]	elektr.	-	REE 2	-	REE 4	-
Speed control, frequency inverter [1]	FU	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)

[1] Systemair recommendation. More alternatives can be found on page 478.

Technical data

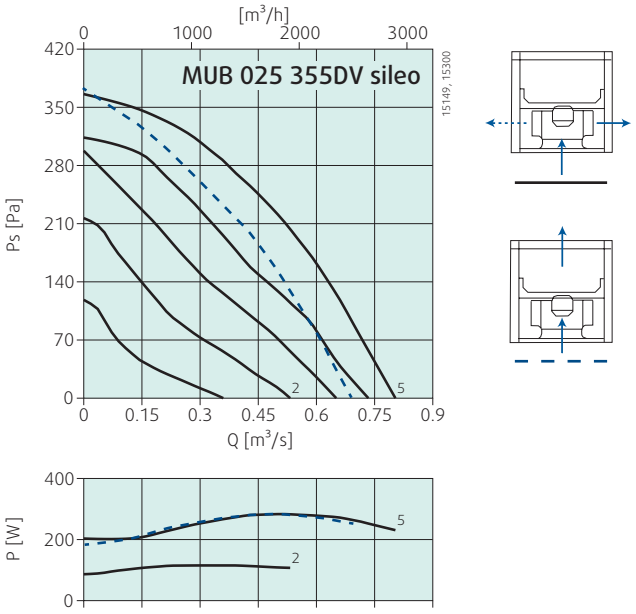
MUB		MUB 042 450E4 sileo	MUB 042 500E4 sileo	MUB 042 500D4-A2 IE2	MUB 062 560D4-A2 IE2	MUB 062 560D6-A2 IE2	MUB 062 630D4-A2 IE2
Art. no.		*37908*	*37901*	*33542*	*33543*	*33544*	*33545*
Voltage	V	230	230	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	3	3	3	3
Input power (P1)	W	737	1102	1356	2437	770	4411
Current	A	3.04	5.1	2.87	4.64	1.98	8.12
Max. airflow	m^3/h	5886	7258	7787	11707	7841	15070
Fan impeller speed	r.p.m.	1341	1387	1440	1420	905	1450
Max. temperature of transported air	°C	60	60	40	40	40	40
* when voltage-controlled	°C	60	60	-	-	-	-
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	52	54	55	56	47	68
Weight	kg	52.5	57	64	92	90	114
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	55	55	55	55
Capacitor	µF	14	30	-	-	-	-
Motor protection [1]		S-ET 10	S-ET 10	-	-	-	-
Speed control, five-step [1]	Transf.	RTRE 5	RTRE 7	FRQ5(S)	FRQ5(S)	FRQ5(S)	FRQ5(S)
Speed control, five-step high/low [1]	Transf.	REU 5	REU 7	-	-	-	-
Speed control, two-step [1]		-	-	-	-	-	-
Speed control, stepless [1]	elektr.	REE 4	-	-	-	-	-
Speed control, frequency inverter [1]	FU	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)

MUB		MUB 062 630D6-A2 IE2	MUB 062 630DV sileo	MUB 100 630D4-L IE2	MUB 100 710D6-A2 IE2	MUB 100 710DV
Art. no.		*33546*	*37909*	*33549*	*33548*	*48581*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	1407	2601	5477	2444	4075
Current	A	3.61	4.57	9.54	5.1	6.51
Max. airflow	m^3/h	9965	15206	20336	16114	20560
Fan impeller speed	r.p.m.	940	1326	1435	945	1268
Max. temperature of transported air	°C	40	40	40	60	55
* when voltage-controlled	°C	-	40	-	-	55
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	53	69	74	59	82
Weight	kg	101	103	177	154	143
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	54	55	55	54
Capacitor	µF	-	-	-	-	-
Motor protection [1]		-	STDT 16	-	-	-
Speed control, five-step [1]	Transf.	FRQ5(S)	RTRD 14	FRQ5(S)	FRQ5(S)	FRQ5(S)
Speed control, five-step high/low [1]	Transf.	-	-	-	-	-
Speed control, two-step [1]		-	S-DT2SKT	-	-	-
Speed control, stepless [1]	elektr.	-	-	-	-	-
Speed control, frequency inverter [1]	FU	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)

[1] Systemair recommendation. More alternatives can be found on page 478.

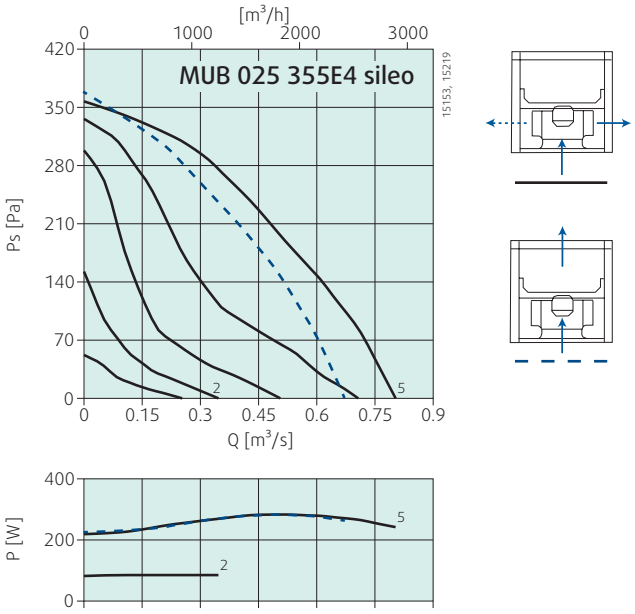


Performance



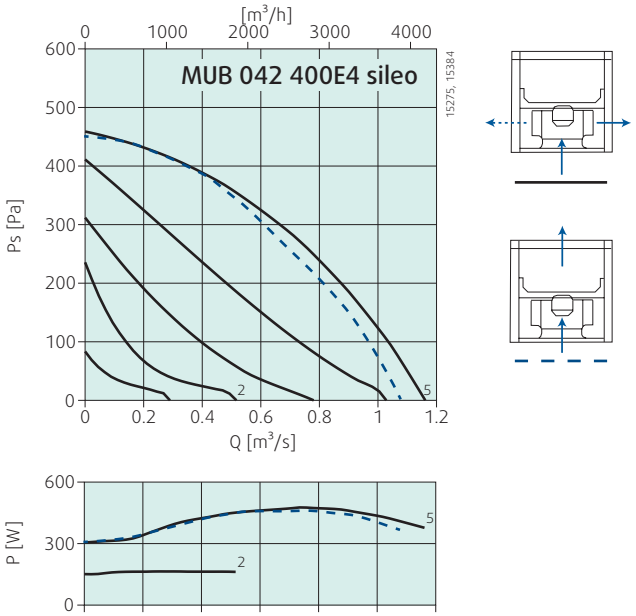
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{WA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{WA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

Measurement point: 1440 m³/h; 238 Pa



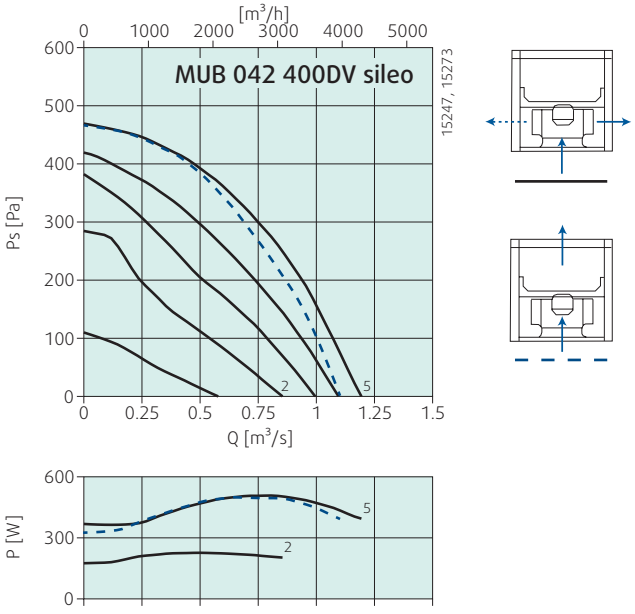
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{WA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{WA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

Measurement point: 1440 m³/h; 254 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	72	59	61	65	67	66	63	58	51
L_{WA} Outlet dB(A)	74	61	63	67	69	68	65	60	53
L_{WA} Surrounding dB(A)	56	43	45	49	51	50	47	42	53

Measurement point: 2304 m³/h; 280 Pa

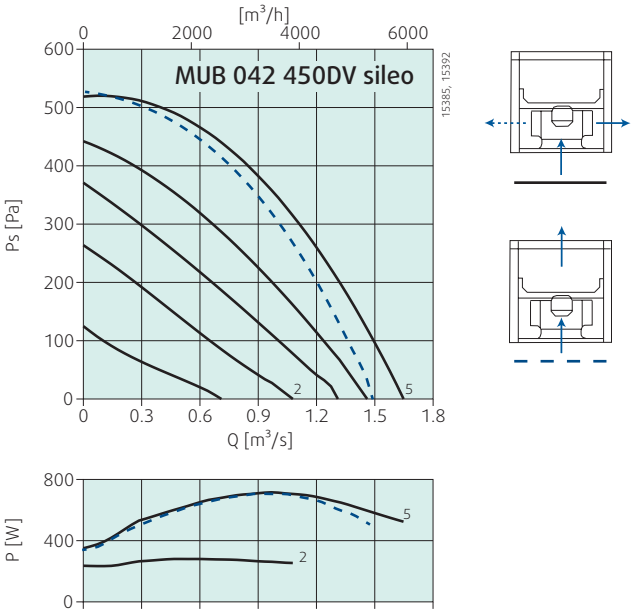


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	72	59	61	65	67	66	63	58	51
L_{WA} Outlet dB(A)	74	61	63	67	69	68	65	60	53
L_{WA} Surrounding dB(A)	56	43	45	49	51	50	47	42	35

Measurement point: 2088 m³/h; 306 Pa

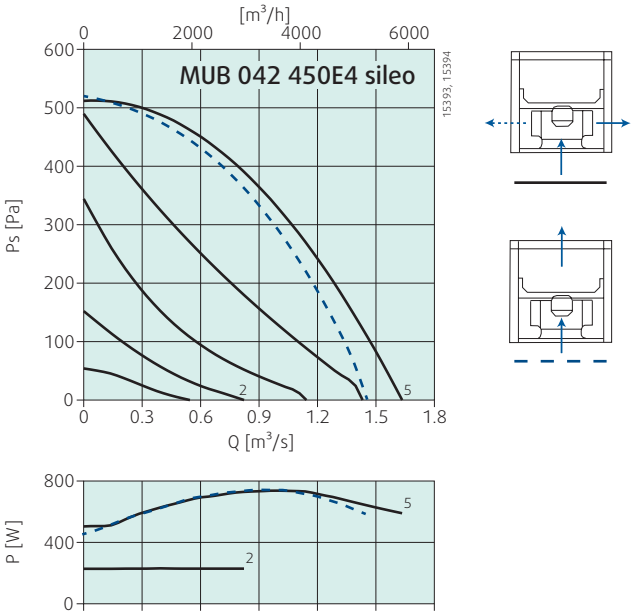


Performance



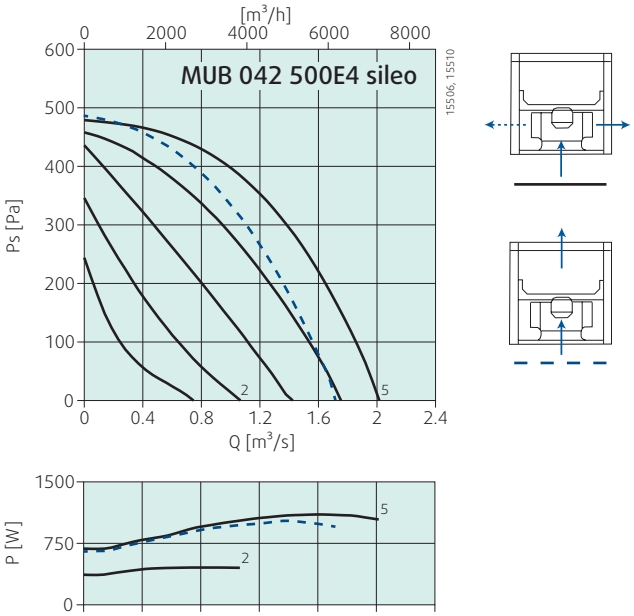
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	61	63	67	69	68	65	50	53
L_{wA} Outlet dB(A)	76	63	65	69	71	70	67	62	55
L_{wA} Surrounding dB(A)	59	46	48	52	54	53	50	45	38

Measurement point: 2916 m³/h; 325 Pa



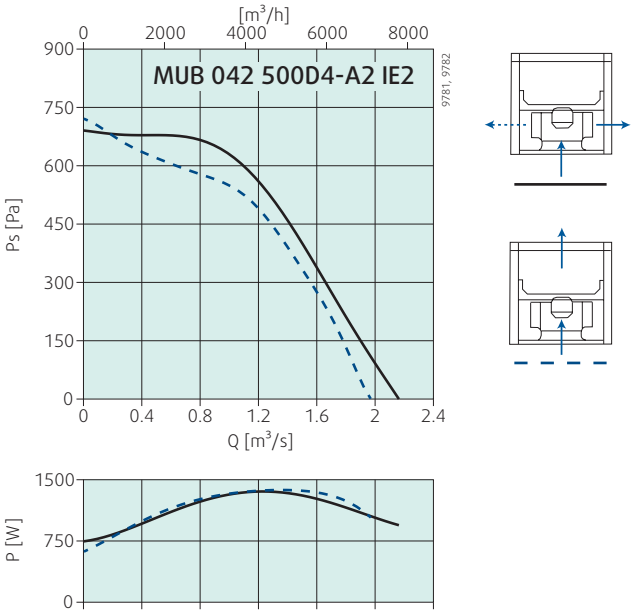
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	62	64	68	70	69	66	61	54
L_{wA} Outlet dB(A)	77	64	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	59	46	48	52	54	53	50	45	38

Measurement point: 2916 m³/h; 348 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	66	68	72	74	73	70	65	58
L_{wA} Outlet dB(A)	81	68	70	74	76	75	72	67	60
L_{wA} Surrounding dB(A)	63	50	52	56	58	57	54	49	42

Measurement point: 3816 m³/h; 515 Pa

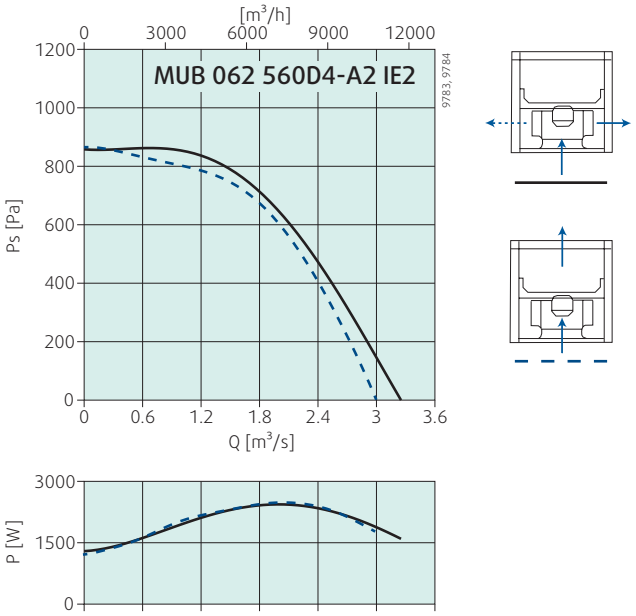


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	64	66	70	72	71	68	63	56
L_{wA} Outlet dB(A)	79	66	68	72	74	73	70	65	58
L_{wA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

Measurement point: 4284 m³/h; 564 Pa

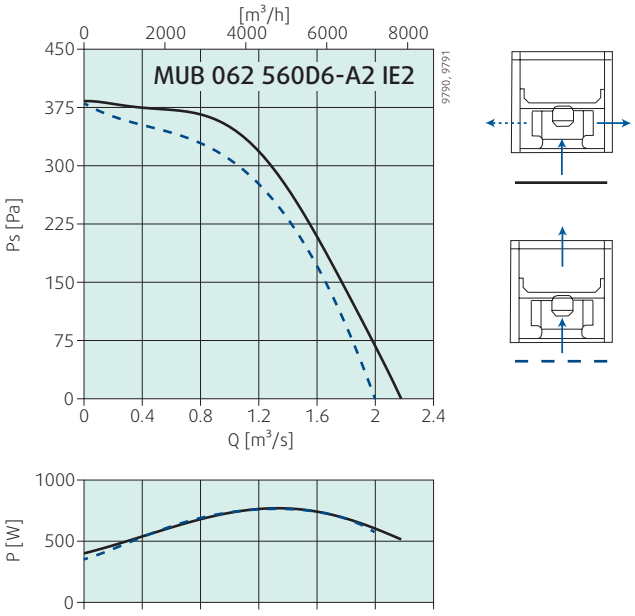


Performance



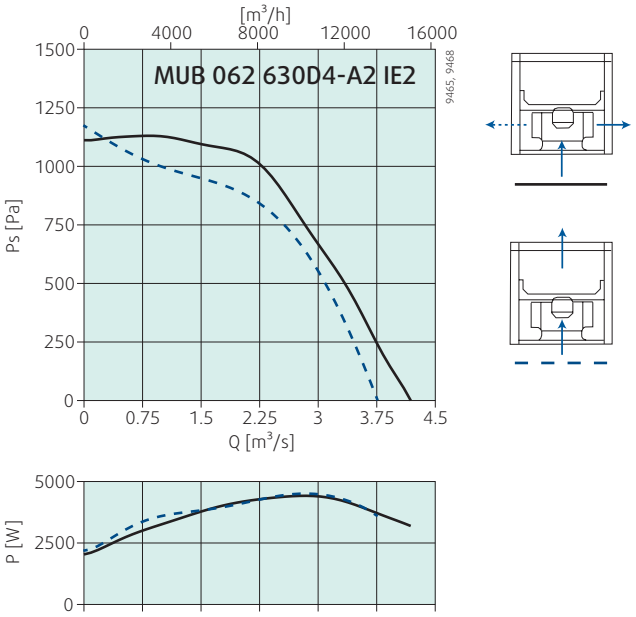
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	78	65	67	71	73	72	69	64	57
L_{WA} Outlet dB(A)	80	67	69	73	75	74	71	66	59
L_{WA} Surrounding dB(A)	63	50	52	56	58	57	54	49	42

Measurement point: 6444 m³/h; 717 Pa



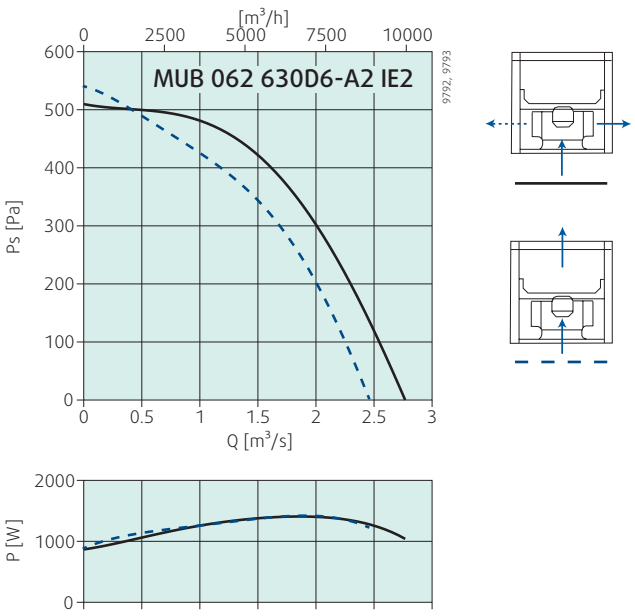
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	69	56	58	63	64	64	60	55	47
L_{WA} Outlet dB(A)	71	58	60	65	66	66	62	57	49
L_{WA} Surrounding dB(A)	54	41	43	48	49	49	45	40	32

Measurement point: 4716 m³/h; 295 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	86	73	75	79	81	80	77	72	65
L_{WA} Outlet dB(A)	88	75	77	81	83	82	79	74	67
L_{WA} Surrounding dB(A)	75	62	64	68	70	69	66	61	54

Measurement point: 8280 m³/h; 994 Pa

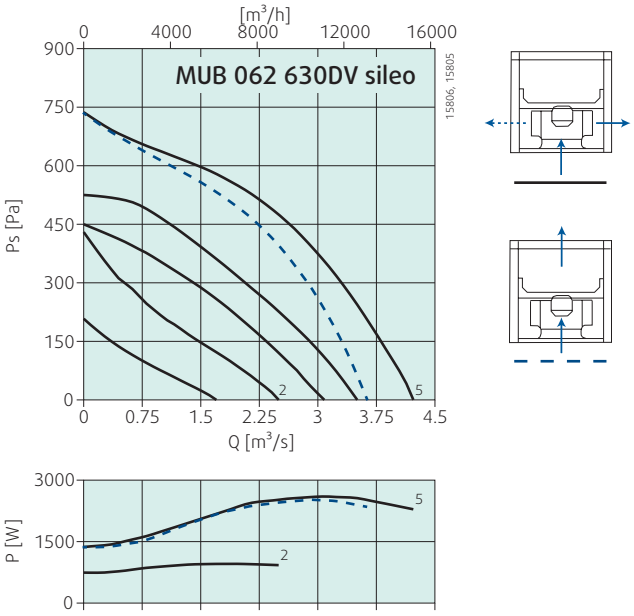


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	73	60	62	67	68	68	64	59	51
L_{WA} Outlet dB(A)	75	62	64	69	70	70	66	61	53
L_{WA} Surrounding dB(A)	60	47	49	54	55	55	51	46	38

Measurement point: 5976 m³/h; 390 Pa

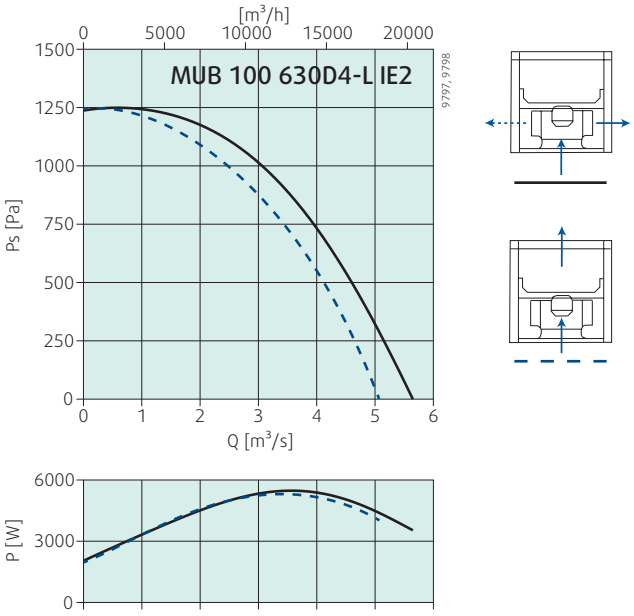


Performance



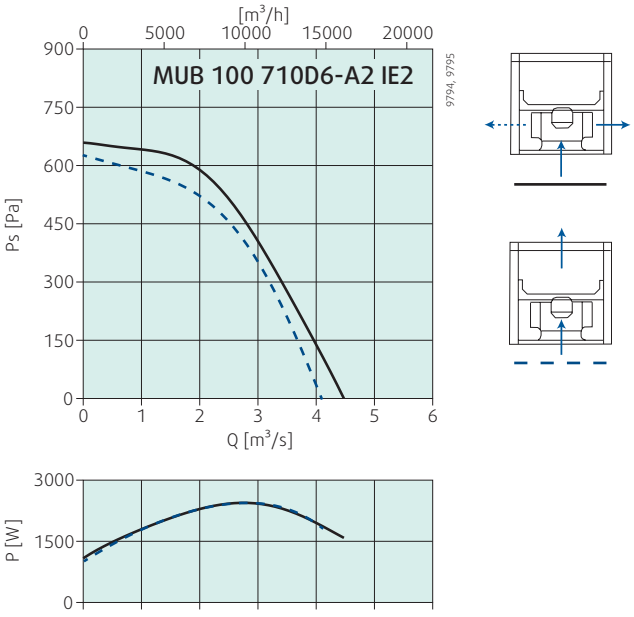
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	74	76	80	82	81	78	73	66
L_{wA} Outlet dB(A)	89	76	78	82	84	83	80	75	68
L_{wA} Surrounding dB(A)	76	63	65	69	71	70	67	62	55

Measurement point: 8244 m³/h; 773 Pa



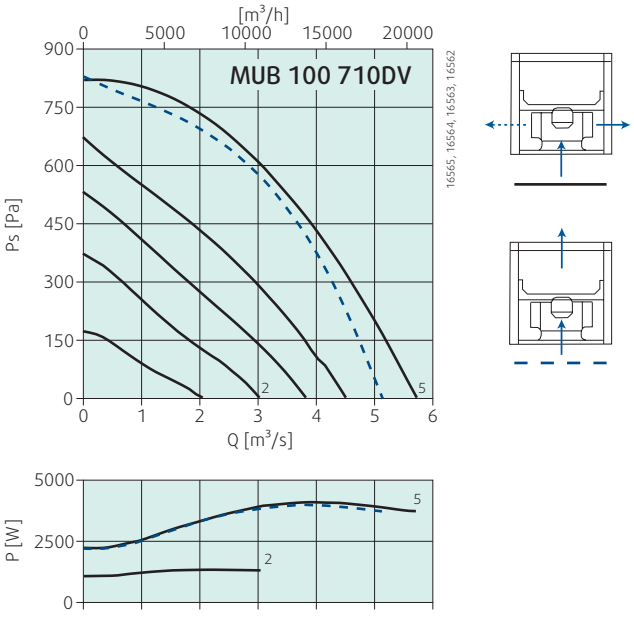
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	58	76	80	82	81	78	73	65
L_{wA} Outlet dB(A)	89	60	78	82	84	83	80	75	67
L_{wA} Surrounding dB(A)	81	52	70	74	76	75	72	67	59

Measurement point: 11160 m³/h; 990 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	65	67	72	73	73	69	64	56
L_{wA} Outlet dB(A)	80	67	69	74	75	75	71	66	58
L_{wA} Surrounding dB(A)	66	53	55	60	61	61	57	52	44

Measurement point: 8856 m³/h; 521 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	59	71	70	75	77	76	73	66
L_{wA} Outlet dB(A)	84	60	73	71	76	78	78	75	67

Measurement point: 10280 m³/h; 626 Pa


Ventilator Abluft
Küche Wohnung 15
V=600m³/h

MUB/T EC

Square duct fans



- Temperature of transported air up to 120 °C
- Equipped with a maintenance switch, condensation tray and drainage plug as standard
- High efficiency across the entire system characteristic field
- Motor outside the airflow
- Discharge direction can be adjusted on site

Casing
Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation. Integrated condensation tray with built-in 1" drain plug.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



CCM
Connection
Page 540



CCMI
Connection, iso.
Page 540



FGV
Flex. connection
Page 539



SD-MUB
Vibration pad
Page 541



SRKG
Shutter
Page 540



UGS
Flexible adapter
Page 539



WSD
Weather roof
Page 539



WSG
Weather protection
Page 539



M-SG
Protection guard
Page 538

Electrical accessories



CO2RT
Transmitter
Page 501



CXE
Digital regulator
Page 499



EC-Vent/Basic
Control unit
Page 485



HR1
Room Humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 487

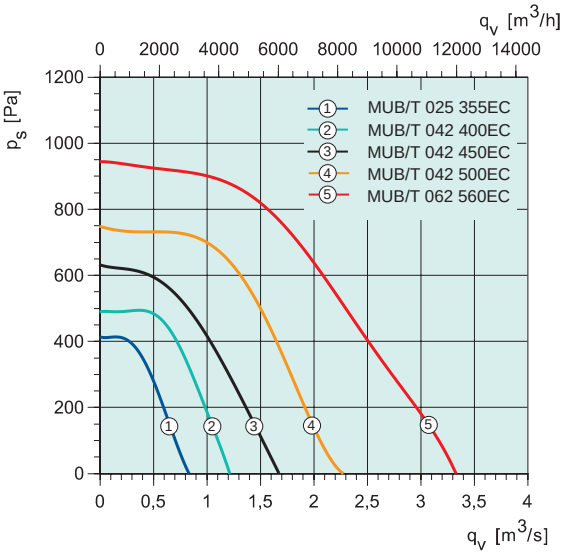


IR24-P
Presence detector
Page 496

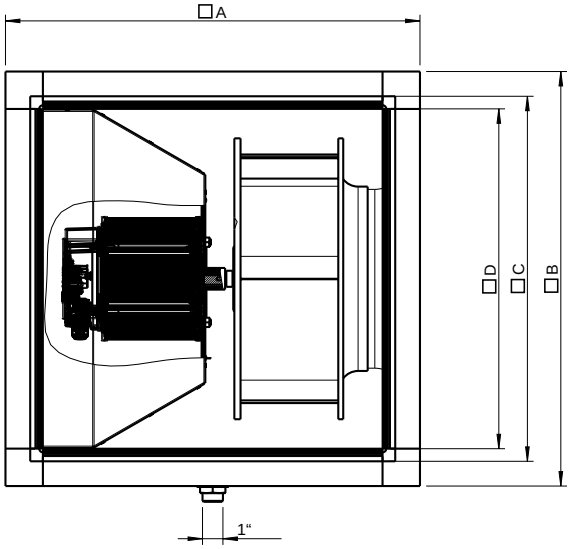


RT
Room Thermostat
Page 490

Quick selection



Dimensions



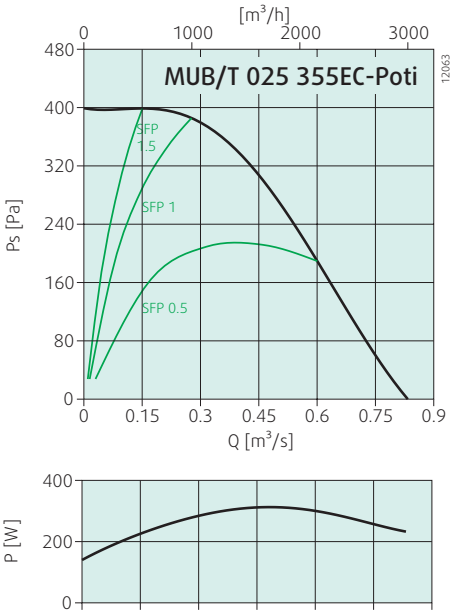
MUB/T EC	□A	□B	□C	□D
025 355EC	500	500	420	378
042 400EC	670	670	590	548
042 450EC	670	670	590	548
042 450EC-K	670	670	590	548
042 500EC	670	670	590	548
062 560EC	800	800	720	676

Technical data

MUB/T EC		MUB/T 025 355EC-Poti	MUB/T 042 400EC-Poti	MUB/T 042 450EC-Poti	MUB/T 042 450EC-K-Poti	MUB/T 042 500EC-Poti	MUB/T 062 560EC-Poti
Art. no.		*37201*	*37202*	*37203*	*37203*	*37204*	*37205*
Voltage	V	230	230	400	230	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	3	1	3	3
Input power (P1)	W	313	549	827	982	1536	2274
Current	A	1.33	2.34	1.39	4.18	2.29	3.3
Max. airflow	m^3/h	2999	4356	6246	6336	8150	12089
Fan impeller speed	r.p.m.	1508	1512	1442	1504	1504	1449
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	42	44	47	47	49	52
Weight	kg	31.3	53.2	60.1	66	71.3	95.8
Insulation class		B	B	B	B	B	F
Enclosure class, motor	IP	55	55	55	55	55	55

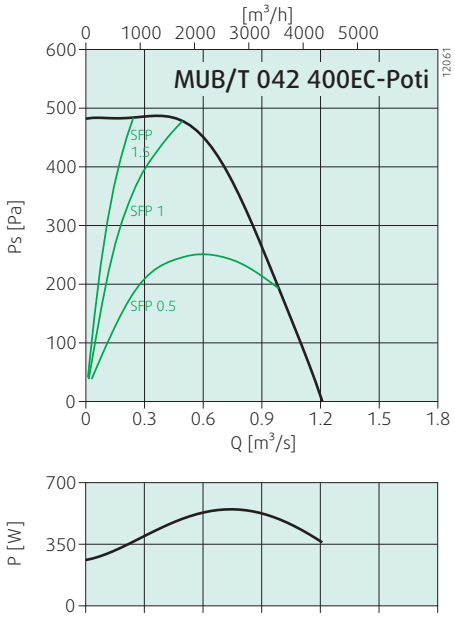


Performance



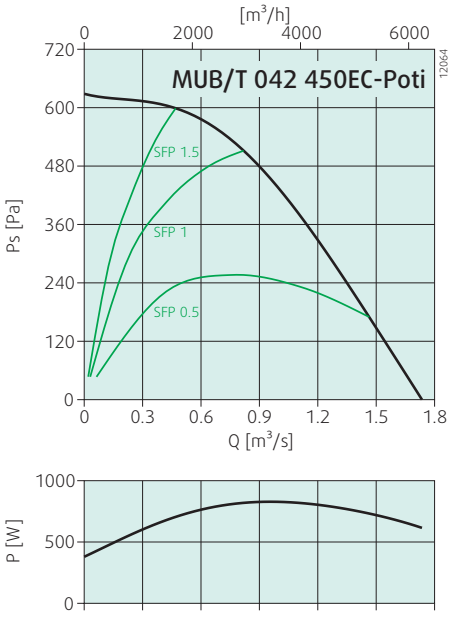
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	48	50	54	56	55	52	47	40
L_{wA} Outlet dB(A)	63	50	52	56	58	57	54	49	42
L_{wA} Surrounding dB(A)	55	42	44	48	50	49	46	41	34

Measurement point: 1656 m³/h; 302 Pa



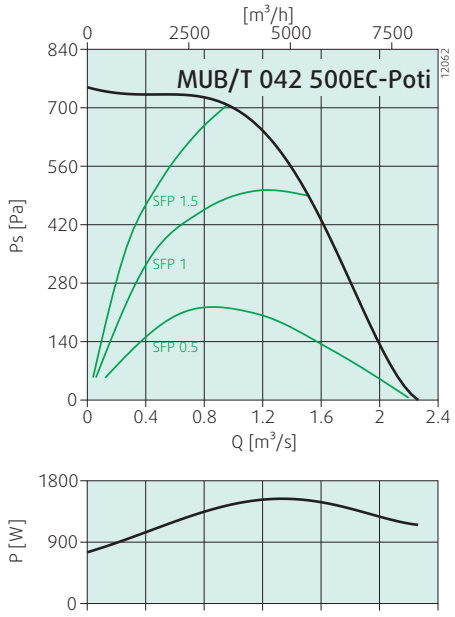
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	54	56	60	62	61	58	53	46
L_{wA} Outlet dB(A)	69	56	58	62	64	63	60	55	48
L_{wA} Surrounding dB(A)	51	38	40	44	56	45	42	37	30

Measurement point: 2412 m³/h; 423 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	56	58	62	64	63	60	45	48
L_{wA} Outlet dB(A)	71	58	60	64	66	65	62	57	50
L_{wA} Surrounding dB(A)	54	41	43	47	49	48	45	40	33

Measurement point: 3420 m³/h; 455 Pa

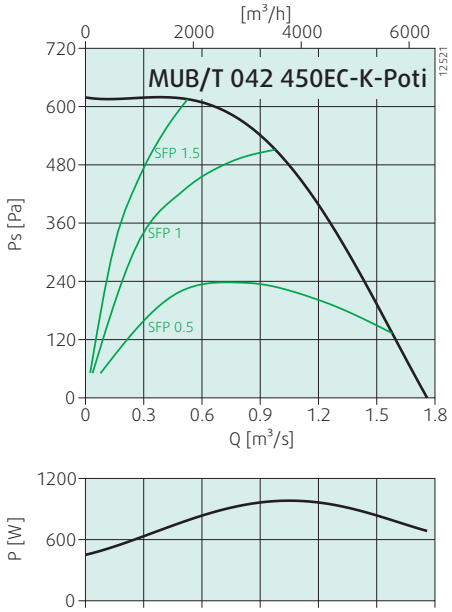


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	58	60	64	66	65	62	57	50
L_{wA} Outlet dB(A)	73	60	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	56	43	45	49	51	50	47	42	35

Measurement point: 4500 m³/h; 628 Pa

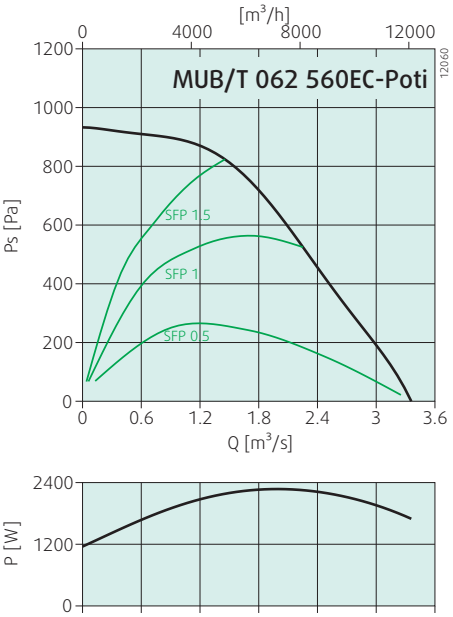


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	58	60	64	66	65	62	57	50
L_{wA} Outlet dB(A)	73	60	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	56	43	45	49	51	50	47	42	35

Measurement point: 4500 m³/h; 628 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	62	65	68	70	69	66	61	54
L_{wA} Outlet dB(A)	77	64	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	60	47	49	53	55	54	51	46	39

Measurement point: 6480 m³/h; 701 Pa

MUB/T

Square duct fans



IE2 2009/640/EG

120°C

- Temperature of transported air up to 120 °C
- Equipped with a maintenance switch, condensation tray and drainage plug as standard
- Low noise level
- Motor outside the airflow
- Discharge direction can be adjusted on site

Casing

Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation. Integrated condensation tray with built-in 1" drain plug.

Motor

Depending on the version, equipped with voltage controllable IEC standard motors or frequency inverter controllable IE2 standard motors.

Impeller geometry

Radial impeller with backwards curved blades.

Output control

Speed controllable via voltage reduction using a transformer, or controllable with a frequency inverter.

Motor protection

Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



CCM
Connection
Page 540



CCMI
Connection, iso.
Page 540



FGV
Flex. connection
Page 539



SD-MUB
Vibration pad
Page 541



SRKG
Shutter
Page 540



UGS
Flexible adapter
Page 539



WSD
Weather roof
Page 539



WSG
Weather protection
Page 539



M-SG
Protection guard
Page 538

Electrical accessories



STDT
Motor protection
Page 501



S-ET 10
Motor protection
Page 501



U-EK230E
Motor protection
Page 502



RTRD / RTRDU
Speed control
Page 485



REU
Speed control
Page 484



REE
Speed control
Page 487

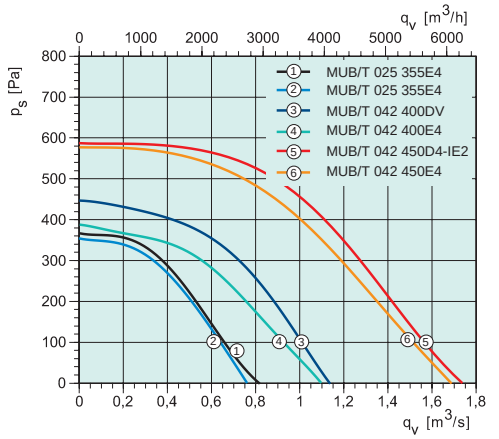


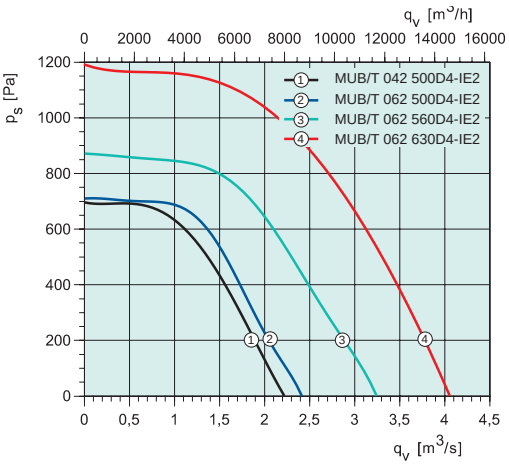
RTRE
Speed control
Page 484



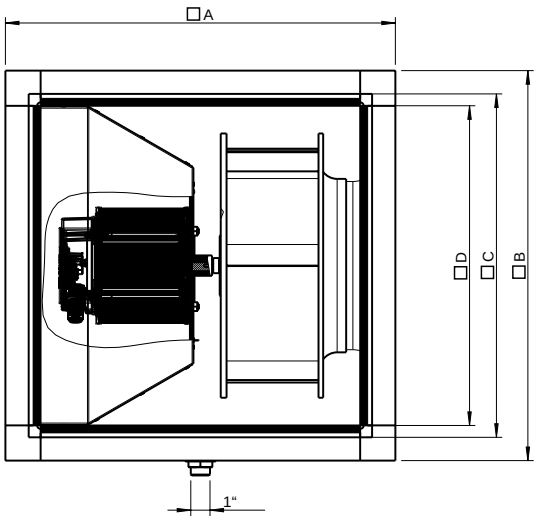
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



MUB/T	□A	□B	□C	□D
025 355	500	500	420	378
042 400	670	670	590	548
042 450	670	670	590	548
042 500	670	670	590	548
062 560	800	800	720	678
062 630	800	800	720	678
100 630	1000	1000	920	878

Technical data

MUB/T		MUB/T 025 355E4	MUB/T 025 355DV	MUB/T 042 400DV	MUB/T 042 400E4	MUB/T 042 450D4-IE2
Art. no.		*34783*	*34784*	*33655*	*33656*	*33657*
Voltage	V	230	400	400	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	3	3	1	3
Input power (P1)	W	315	280	528	456	924
Current	A	1.47	0.743	1.4	2.1	1.78
Max. airflow	m^3/h	2747	2686	4082	3992	6188
Fan impeller speed	r.p.m.	1400	1278	1370	1370	1400
Max. temperature of transported air	°C	120	120	120	120	120
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	46	45	47	47	49
Weight	kg	31.5	31.5	49	51	60
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	55
Capacitor	µF	8	-	-	12	-
Motor protection [1]		S-ET 10	STDT 16	STDT 16	S-ET 10	U-EK 230E
Speed control, five-step [1]	Transf.	RTRE 3 / FRQ5(S)	RTRD 2 / FRQ5(S)	RTRD 2 / FRQ5(S)	RTRE 3	FRQ5(S)
Speed control, stepless [1]	elektr.	-	FRQ(S)	-	-	FRQ(S)

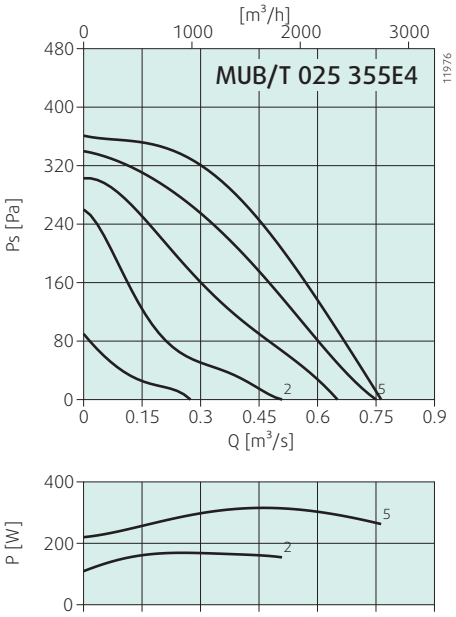
MUB/T		MUB/T 042 450E4	MUB/T 042 500D4-IE2	MUB/T 062 500D4 IE2	MUB/T 062 560D4 IE2	MUB/T 062 630D4 IE2	MUB 100 630 D4-K2-L IE2*
Art. no.		*33658*	*33622*	*34560*	*33659*	*33660*	*34534*
Voltage	V	230	400	400	400	400	400
Motor circuit connection		-	Y	Y	Y	D	
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	3	3	3	3
Input power (P1)	W	1014	1373	1487	2415	4498	5477
Current	A	5.3	2.87	3.26	4.2	8.12	9.47
Starting current	A	-	23	23	32.4	60.9	20336
Max. airflow	m^3/h	6037	8042	8708	11704	14843	1435
Fan impeller speed	r.p.m.	1430	1441	1469	1445	1450	120
Max. temperature of transported air	°C	120	120	120	120	120	-
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	50	53	57	55	67	74
Weight	kg	63	61	85	90	102	195
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	55	55	55	55	54
Kondensator	µF	30	-	-	-	-	
Motor protection [1]		S-ET 10	S-ET 10	U-EK 230E	U-EK 230E	U-EK 230E	U-EK 230E
Speed control, five-step [1]	Transf.	RTRE 7	RTRE 7	FRQ5(S)	FRQ5(S)	FRQ5(S)	FRQ5(S)
Speed control, stepless [1]	elektr.	-	-	FRQ(S)	FRQ(S)	FRQ(S)	FRQ(S)

[1] Systemair recommendation. More alternatives can be found on page 478.

* This version is without drainage.

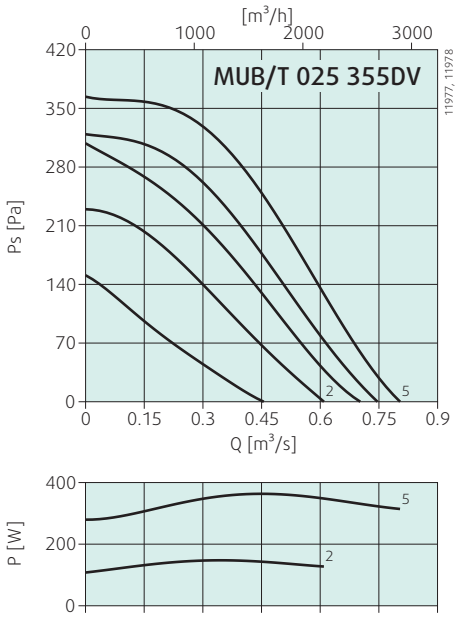


Performance



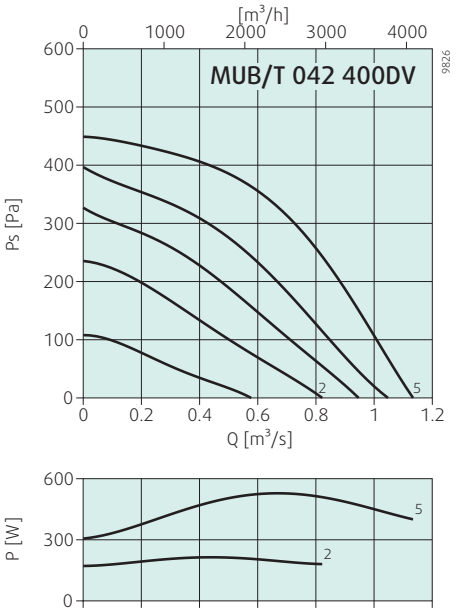
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

Measurement point: 1512 m³/h; 264 Pa



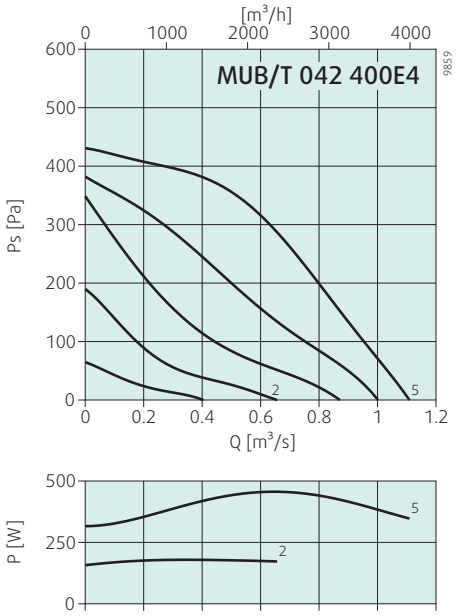
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

Measurement point: 1440 m³/h; 280 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Einlass dB(A)	70	57	59	63	65	64	61	56	51
L_{wA} Austritt dB(A)	72	59	61	65	67	66	63	58	51
L_{wA} Umgebung dB(A)	54	41	43	47	49	48	45	40	33

Measurement point: 2160 m³/h; 385 Pa

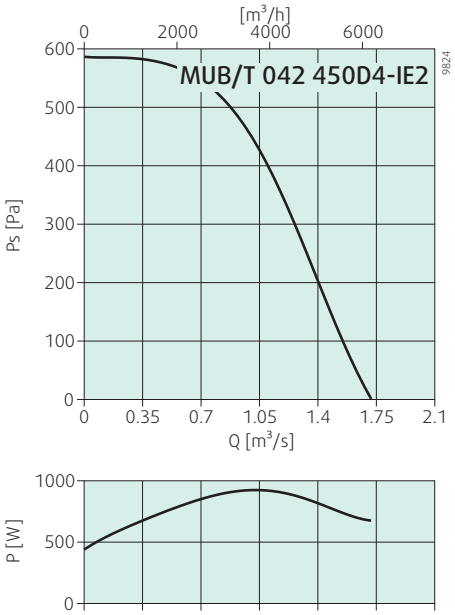


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Einlass dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Austritt dB(A)	72	59	61	65	67	66	63	58	51
L_{wA} Umgebung dB(A)	54	41	43	47	49	48	45	40	33

Measurement point: 2124 m³/h; 340 Pa

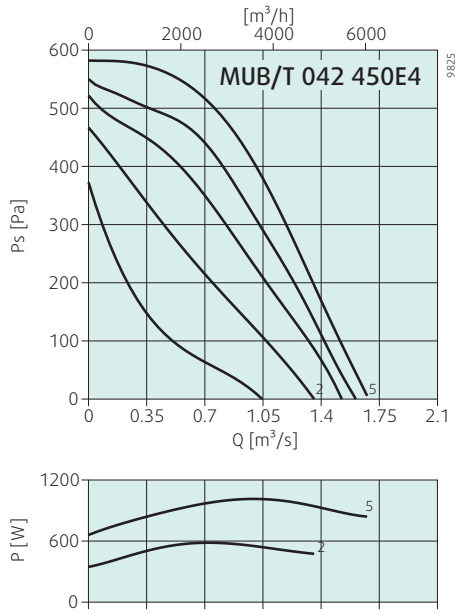


Performance



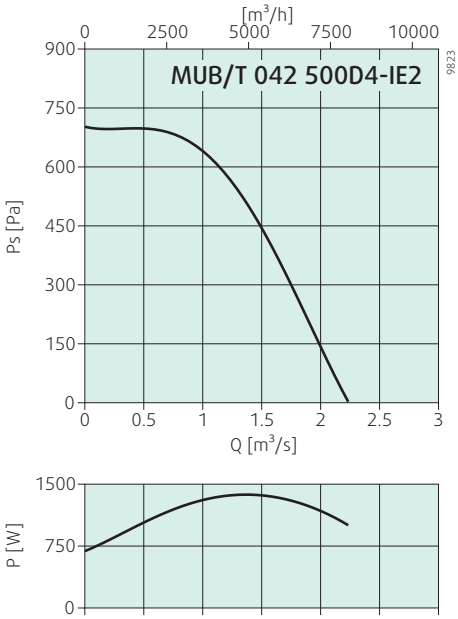
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	71	58	60	64	66	65	62	47	50
L_{WA} Outlet dB(A)	73	60	62	66	68	67	64	59	52
L_{WA} Surrounding dB(A)	56	43	45	49	51	50	47	42	35

Measurement point: 2880 m³/h; 400 Pa



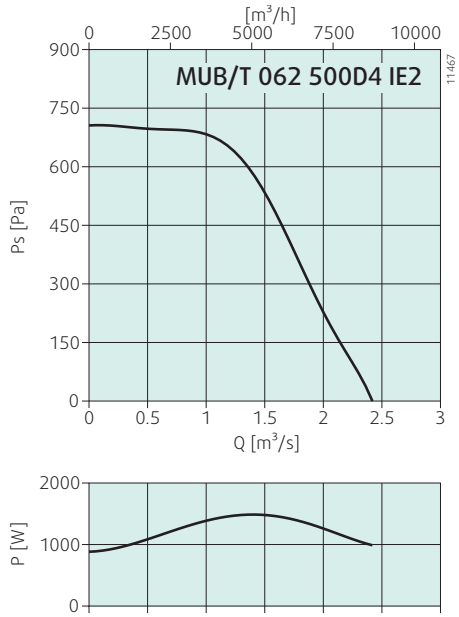
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	72	59	61	65	67	66	63	48	51
L_{WA} Outlet dB(A)	74	61	63	67	69	68	65	60	53
L_{WA} Surrounding dB(A)	57	44	46	50	52	51	48	43	36

Measurement point: 3168 m³/h; 470 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	75	62	64	68	70	69	66	61	54
L_{WA} Outlet dB(A)	77	64	66	70	72	71	68	63	56
L_{WA} Surrounding dB(A)	60	47	49	53	55	54	51	46	39

Measurement point: 4536 m³/h; 550 Pa

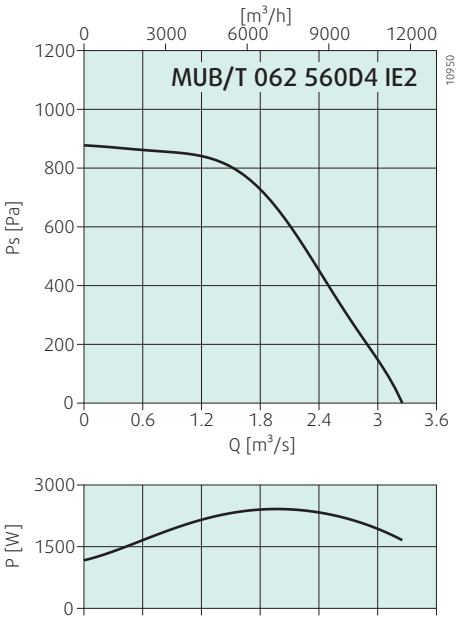


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	78	65	67	71	73	72	69	64	57
L_{WA} Outlet dB(A)	80	67	69	73	75	74	71	66	59
L_{WA} Surrounding dB(A)	63	50	52	56	58	57	54	49	42

Measurement point: 8100 m³/h; 565 Pa

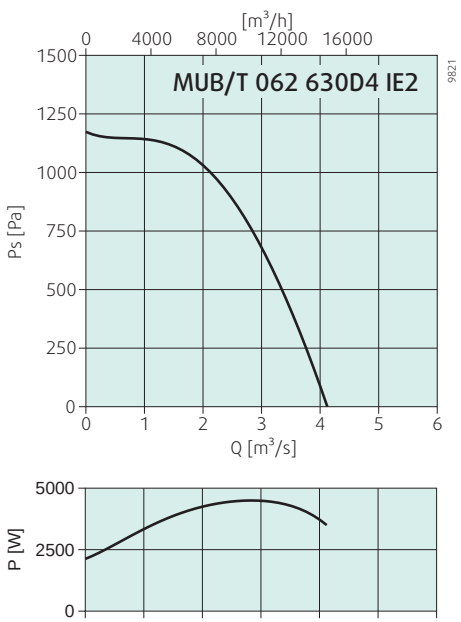


Performance



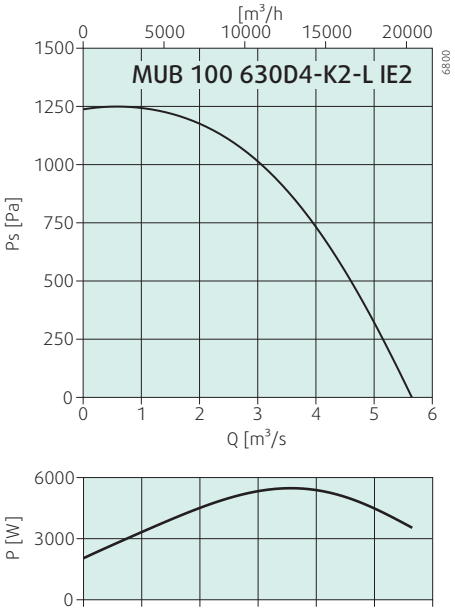
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	73	75	79	81	80	77	72	65
L_{wA} Outlet dB(A)	88	78	77	81	83	82	79	74	67
L_{wA} Surrounding dB(A)	75	62	64	68	70	69	61	66	54

Measurement point: 7200 m³/h; 1100 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	73	75	79	81	80	77	72	65
L_{wA} Outlet dB(A)	88	78	77	81	83	82	79	74	67
L_{wA} Surrounding dB(A)	75	62	64	68	70	69	61	66	54

Measurement point: 7200 m³/h; 1100 Pa



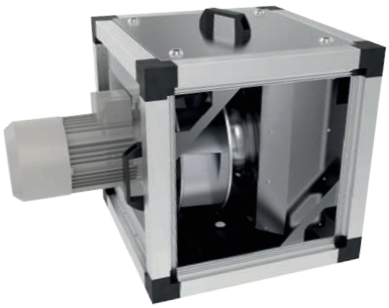
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	65	67	72	73	73	69	64	56
L_{wA} Outlet dB(A)	80	67	69	74	75	75	71	66	58
L_{wA} Surrounding dB(A)	66	53	55	60	61	61	57	52	44

Measurement point: 8856 m³/h; 521 Pa


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MUB/T-S EC

Square duct fans



- Temperature of transported air up to 120 °C
- Ideal for extraction of polluted and hot air
- Elegant axial air flow: simple to integrate in the duct system without taking up much space
- Low noise level
- For commercial kitchens, process extraction and similar application areas

Accessories



CCM
Connection
Page 540



CCMI
Connection, iso.
Page 540



FGV
Flex. connection
Page 539



SD-MUB
Vibration pad
Page 541



SRKG
Shutter
Page 540



UGS
Flexible adapter
Page 539



WSD
Weather roof
Page 539



WSG
Weather protection
Page 539



M-SG
Protection guard
Page 538

Electrical accessories



CO2RT
Transmitter
Page 501



CXE
Digital regulator
Page 499



EC-Vent/Basic
Control unit
Page 485



HR1
Room Humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 487



IR24-P
Presence detector
Page 496



RT
Room Thermostat
Page 490

Casing
Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation. Integrated condensation tray with built-in 1" drain plug.

Motor
Energy-saving, highly efficient EC external rotor motors. Motor outside the airstream.

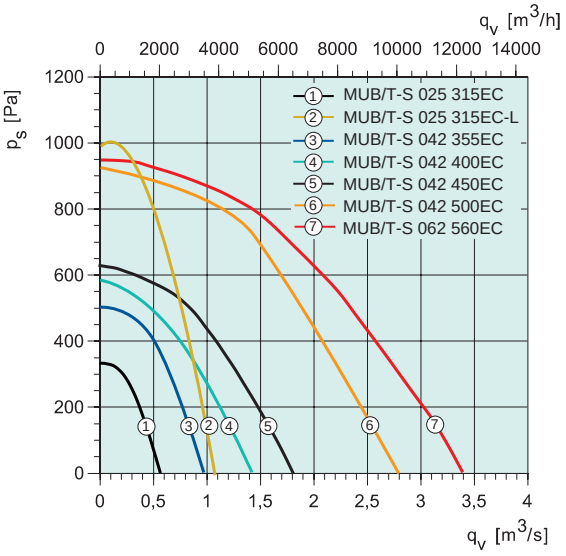
Impeller geometry
Optimised and highly efficient backward curved high density impellers manufactured from aluminium for optimum efficiency.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point.

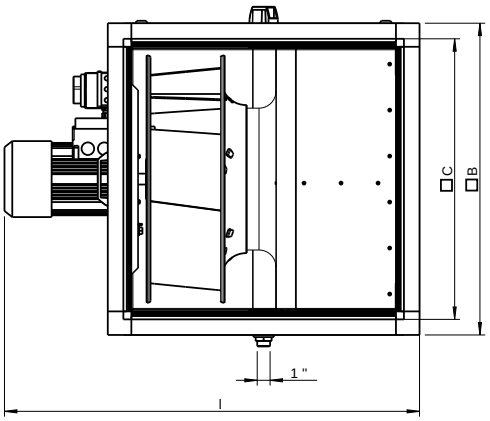
Motor protection
The motor protection is integrated in the motor electronics.

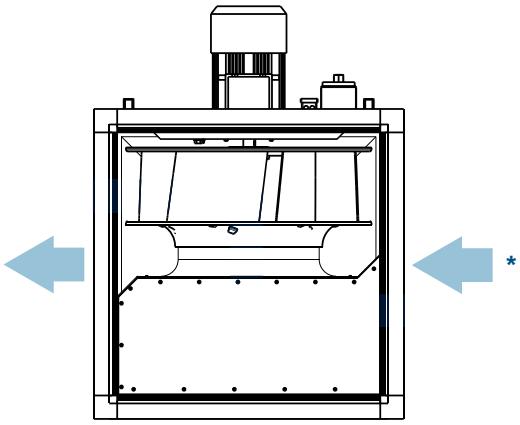
You can find more information in our online catalogue on www.systemair.com

Quick selection



Dimensions





* Airflow

MUB/T-S EC	□B	□C	l
MUB/T-S 025 315EC	500	420	668
MUB/T-S 042 355EC	670	590	795
MUB/T-S 042 400EC	670	590	813
MUB/T-S 042 450EC	670	590	874
MUB/T-S 062 500EC	800	720	1023
MUB/T-S 062 560EC	800	720	1065

Dimensions in mm

Technical data

MUB/T-S EC		MUB/T-S 025 315EC	MUB/T-S 025 315EC-L	MUB/T-S 042 355EC	MUB/T-S 042 400EC
Art. no.		*37889*	*38423*	*37217*	*37218*
Voltage	V	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1
Input power (P1)	W	182	962	392	634
Current	A	0.8	1.47	1.52	2.65
Max. airflow	m^3/h	2038	3690	3434	5177
Fan impeller speed	r.p.m.	1508	2620	1512	1469
Max. temperature of transported air	°C	120	120	120	120
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	41	52	44	47
Weight	kg	37.3	38.2	58	61.5
Insulation class		B	B	B	B
Enclosure class, motor	IP	55	55	55	55
Motor protection		Integral	Integral	Integral	Integral

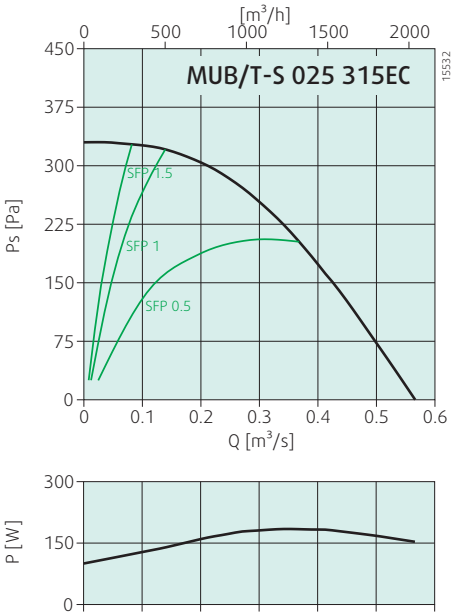
MUB/T-S EC		MUB/T-S 042 450EC *	MUB/T-S 062 500EC	MUB/T-S 062 560EC	
Art. no.		*37219*	*37220*	*37221*	
Voltage	V	400	400	400	
Frequency	Hz	50/60	50/60	50/60	
Phase	~	3	3	3	
Input power (P1)	W	915	1935	2625	
Current	A	1.6	2.91	2.91	
Max. airflow	m^3/h	6462	9965	12251	
Fan impeller speed	r.p.m.	1398	1500	1409	
Max. temperature of transported air	°C	120	120	120	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	49	52	56	
Weight	kg	69.5	106.9	112	
Insulation class		B	F	F	
Enclosure class, motor	IP	55	55	55	
Motor protection		Integral	Integral	Integral	

* 230V - on request

(1) Systemair recommendation. More alternatives can be found on page 478.

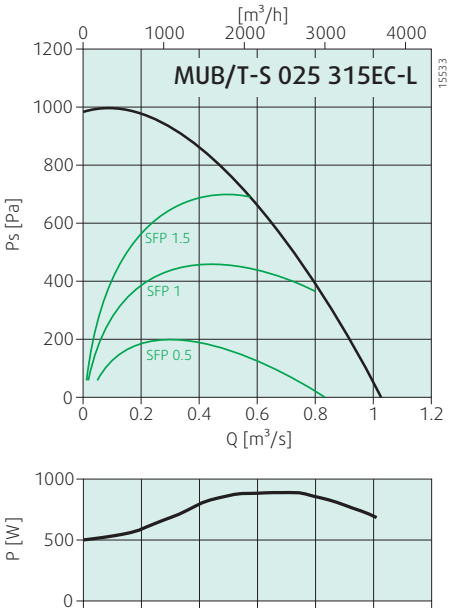


Performance



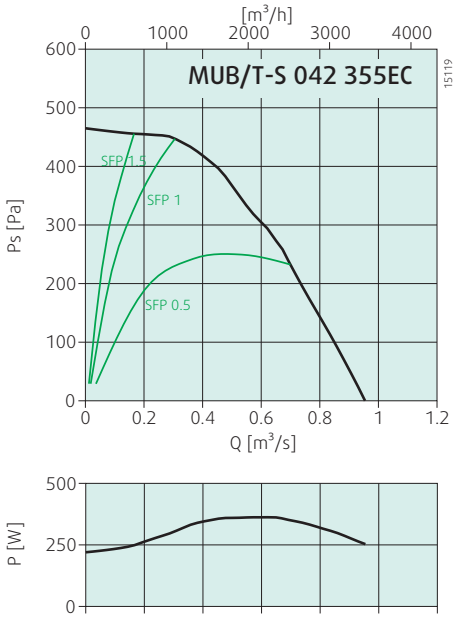
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	36	54	58	60	59	56	51	44
L_{wA} Outlet dB(A)	67	38	56	60	62	61	58	53	46
L_{wA} Surrounding dB(A)	49	20	38	42	44	43	40	35	28

Measurement point: 1121 m³/h; 246 Pa



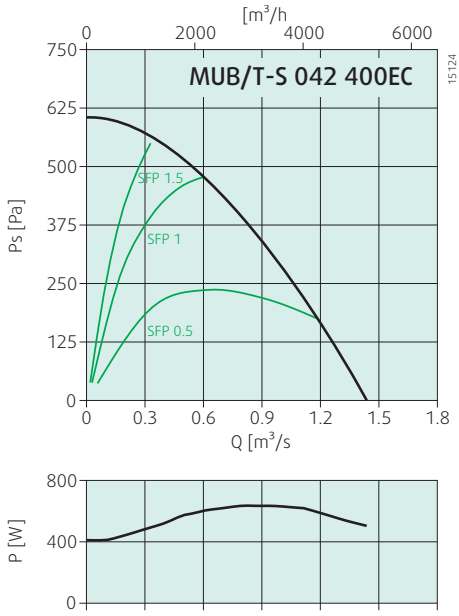
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	46	64	68	70	69	66	61	54
L_{wA} Outlet dB(A)	77	48	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	59	30	48	52	54	53	50	45	38

Measurement point: 2213 m³/h; 658 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	38	56	60	62	61	58	53	46
L_{wA} Outlet dB(A)	69	40	58	62	64	63	60	55	48
L_{wA} Surrounding dB(A)	51	22	40	44	46	45	42	37	30

Measurement point: 1890 m³/h; 350 Pa

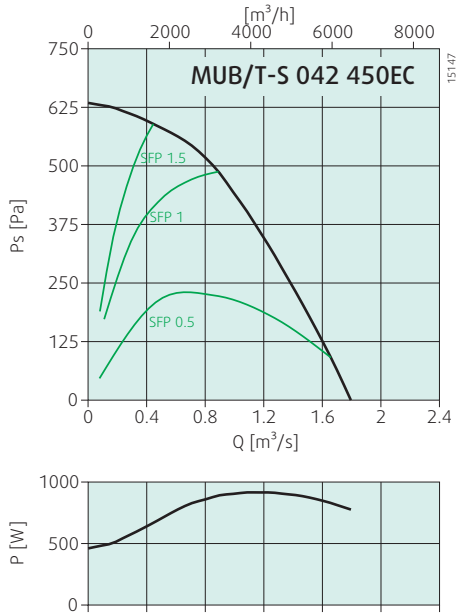


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	40	58	62	64	63	60	55	48
L_{wA} Outlet dB(A)	71	42	60	64	66	65	62	57	50
L_{wA} Surrounding dB(A)	54	25	43	47	49	48	45	40	33

Measurement point: 2847 m³/h; 401 Pa

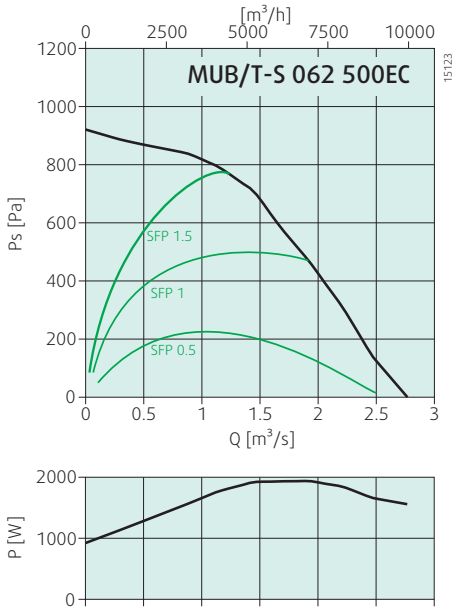


Performance



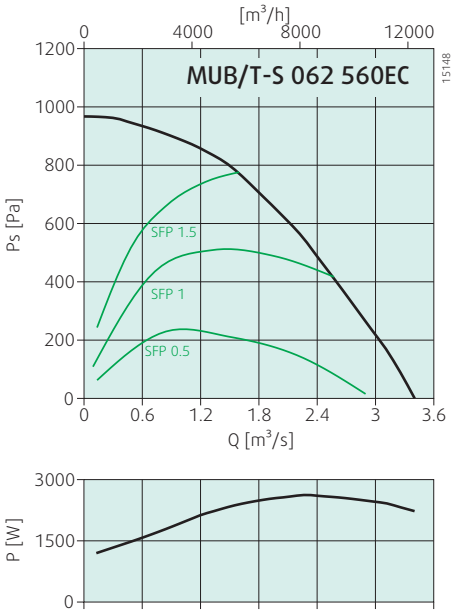
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	42	60	64	66	65	62	57	50
L_{wA} Outlet dB(A)	73	44	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	56	27	45	49	51	50	47	42	35

Measurement point: 3231 m³/h; 485 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	46	64	68	70	69	66	61	54
L_{wA} Outlet dB(A)	77	48	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	60	31	49	53	55	54	51	46	39

Measurement point: 5040 m³/h; 727 Pa

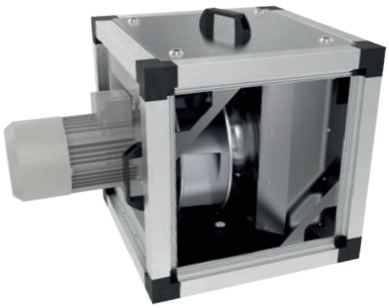


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	49	67	71	73	72	69	64	57
L_{wA} Outlet dB(A)	80	51	69	73	75	74	71	66	59
L_{wA} Surrounding dB(A)	63	34	52	56	58	57	54	49	42

Measurement point: 5760 m³/h; 775 Pa

MUB/T-S

Square duct fans



IE2 2009/640/EG

120°C

NEW!

- Temperature of transported air up to 120 °C
- Ideal for extraction of polluted and hot air
- Elegant axial air flow: simple to integrate in the duct system without taking up much space
- Low noise level
- For commercial kitchens, process extraction and similar application areas

Casing

Self supporting aluminium frame construction with highly impact resistant PA6 corners. 20 mm glass wool acoustic and thermal insulation. Integrated condensation tray with built-in 1" drain plug.

Motor

Depending on the version, equipped with voltage controllable IEC standard motors (DV and E4) or frequency inverter controllable IE2 standard motors (D2, D4 and IE2).

Impeller geometry

Optimised and highly efficient backward curved high density impellers from aluminium for optimum efficiency.

Output control

Speed controllable via voltage reduction using a transformer, or controllable with a frequency inverter.

Motor protection

Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



CCM
Connection
Page 540



CCMI
Connection, iso.
Page 540



FGV
Flex. connection
Page 539



SD-MUB
Vibration pad
Page 541



SRKG
Shutter
Page 540



UGS
Flexible adapter
Page 539



WSD
Weather roof
Page 539



WSG
Weather protection
Page 539



M-SG
Protection guard
Page 538

Electrical accessories



STDT
Motor protection
Page 501



S-ET 10
Motor protection
Page 501



U-EK230E
Motor protection
Page 502



RTRD / RTRDU
Speed control
Page 485



REU
Speed control
Page 484



REE
Speed control
Page 487

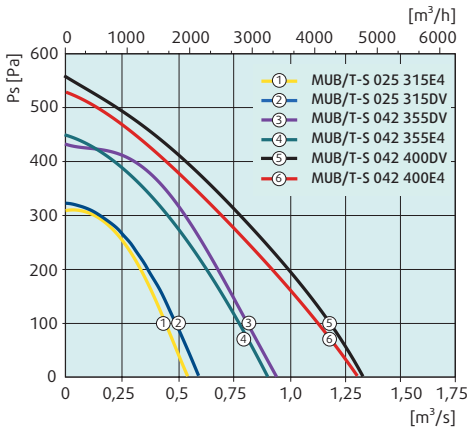


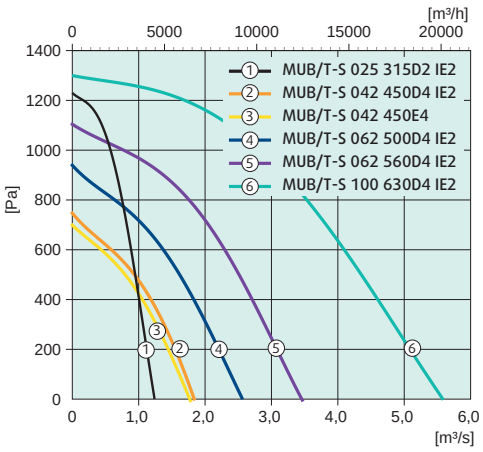
RTRE / RTRD
Speed control
Page 484



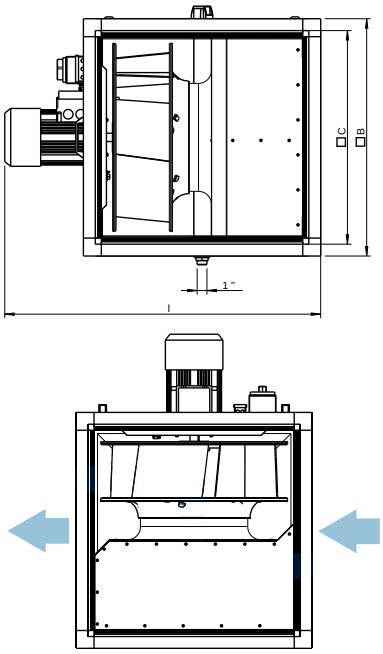
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



MUB/T-S	□B	□C	I
MUB/T-S 025 315D2 IE2	500	420	751
MUB/T-S 025 315E4	500	420	690
MUB/T-S 025 315DV	500	420	672
MUB/T-S 042 355DV	670	590	795
MUB/T-S 042 355E4	670	590	777
MUB/T-S 042 400DV	670	590	813
MUB/T-S 042 400E4	670	590	849
MUB/T-S 042 450D4 IE2	670	590	867
MUB/T-S 042 450E4	670	590	874
MUB/T-S 062 500D4 IE2	800	720	1023
MUB/T-S 062 560D4 IE2	800	720	1065
MUB/T-S 100 630D4 IE2	1000	920	1237

Dimension in mm

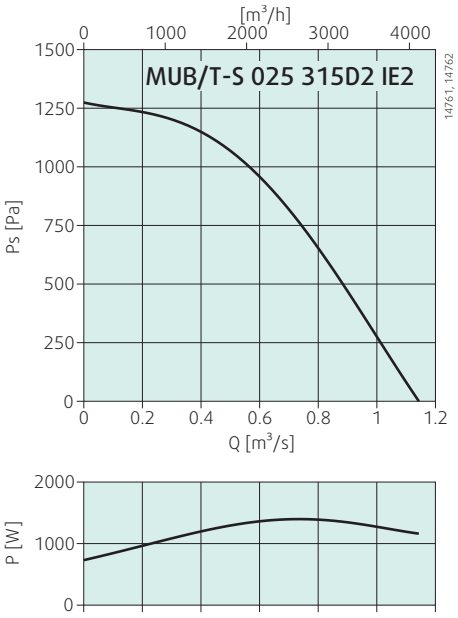
Technical data

MUB/T-S		MUB/T-S 025 315D2 IE2	MUB/T-S 025 315E4	MUB/T-S 025 315DV	MUB/T-S 042 355DV	MUB/T-S 042 355E4	MUB/T-S 042 400DV
Art. no.		*37266*	*37267*	*37268*	*37088*	*37089*	*37090*
Voltage	V	400	230	400	400	230	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	1	3	3	1	3
Input power (P1)	W	1398	259	294	351	355	631
Current	A	2.56	1.1	1.34	1.3	1.51	1.4
Max. airflow	m^3/h	4115	2009	2012	3344	3125	4795
Fan impeller speed	r.p.m.	2892	1441	1468	1441	1401	1351
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	68	55	55	45	46	47
Weight	kg	47	38.8	36	58.3	59.9	58
Insulation class		F	F	F	F	F	F
Enclosure class	IP	55	54	54	54	54	54
Motor protection (1)		-	S-ET 10	STDT 16	STDT 16	S-ET 10	STDT 16
Speed control, five-step (1)	Transf.	FRQ5(S)	REU 3/RTRE 3	RTRD 2	RTRD 2	RTRE 3	RTRD 2
Speed control, stepless (1)	elektr.	-	-	-	-	REE 2	-
Speed control, frequency converter (1)	elektr.	-	FRQ(S)	-	FRQ(S)	FRQ(S)	FRQ(S)

MUB/T-S		MUB/T-S 042 400E4	MUB/T-S 042 450E4	MUB/T-S 042 450D4 IE2	MUB/T-S 062 500D4 IE2	MUB/T-S 062 560D4 IE2	MUB/T-S 100 630D4 IE2
Art. no.		*37091*	*37092*	*37093*	*37094*	*37098*	*37159*
Voltage	V	230	230	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	3	3	3	3
Input power (P1)	W	563	1167	1096	1750	2991	5629
Current	A	2.37	5.1	2.05	3.34	5.07	9.37
Max. airflow	m^3/h	4630	6602	6592	9000	12287	20106
Fan impeller speed	r.p.m.	1273	1383	1419	1406	1436	1436
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	47	50	49	53	57	74
Weight	kg	59.1	71.3	70.4	97.5	103	157
Insulation class		F	F	F	F	F	F
Enclosure class	IP	54	54	55	55	55	
Motor protection (1)		S-ET 10	-	S-ET 10	-	-	-
Speed control, five-step (1)	Transf.	RTRE 3	FRQ5(S)	RTRE 7	FRQ5(S)	FRQ5(S)	FRQ5(S)
Speed control, frequency converter (1)	elektr.	-	FRQ(S)	-	FRQ(S)	FRQ(S)	FRQ(S)

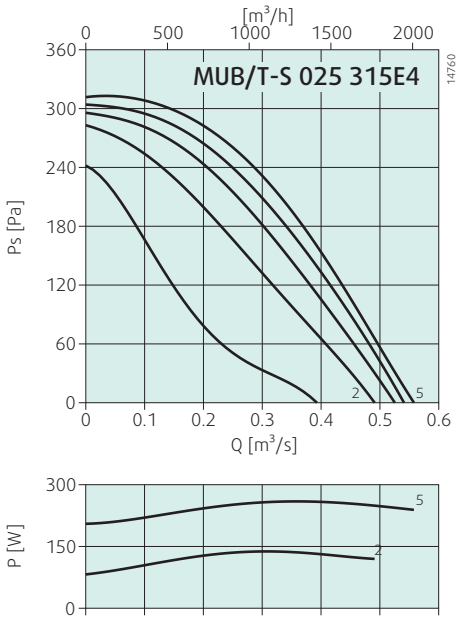
(1) Systemair recommendation. More alternatives can be found on page 478.

Performance



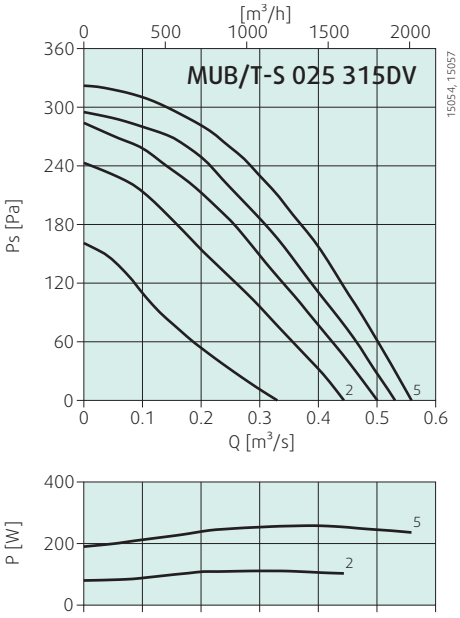
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	-	70	74	76	75	72	67	60
L_{wA} Outlet dB(A)	83	-	72	76	78	77	74	69	62
L_{wA} Surrounding dB(A)	75	-	64	68	70	69	66	61	54

Measurement point: 2052 m³/h; 992 Pa



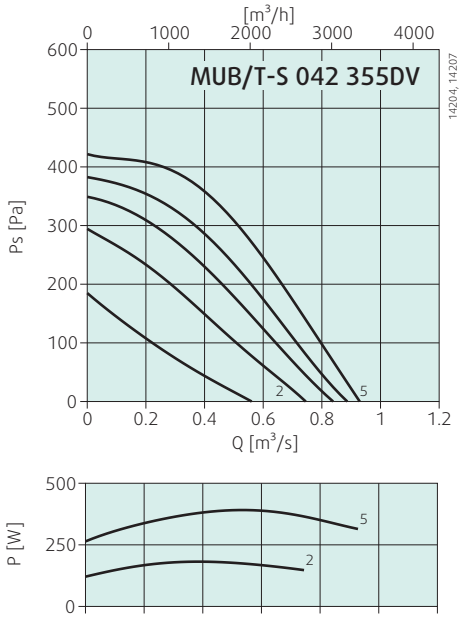
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	62	59	51	55	57	56	53	48	41

Measurement point: 1512 m³/h; 264 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	62	49	51	55	57	56	53	48	41

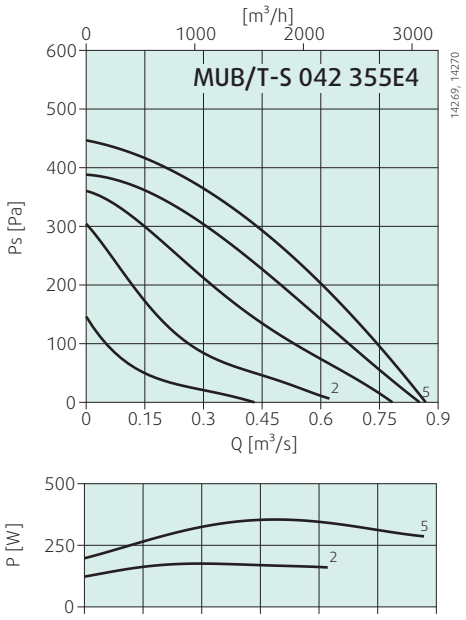
Measurement point: 1440 m³/h; 280 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Outlet dB(A)	70	57	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	52	39	41	45	47	46	43	38	31

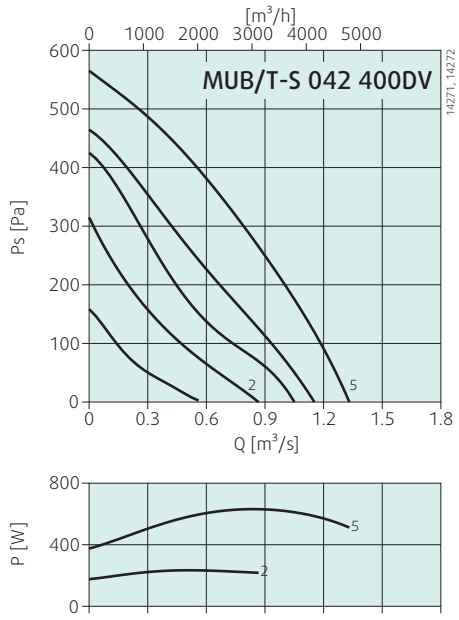
Measurement point: 1836 m³/h; 302 Pa

Performance



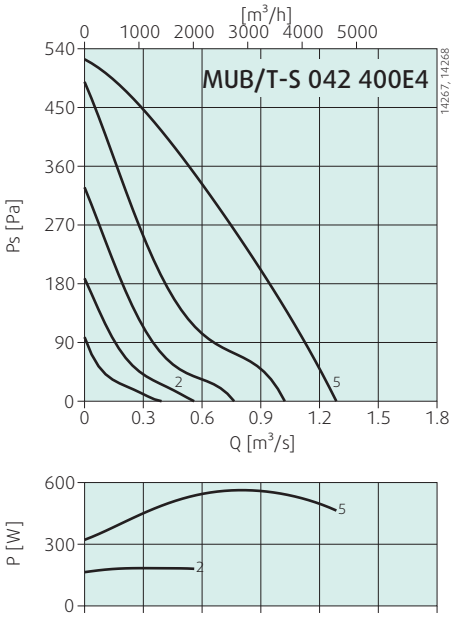
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	69	56	58	62	64	63	60	55	48
L_{WA} Outlet dB(A)	71	58	60	64	66	65	62	57	50
L_{WA} Surrounding dB(A)	53	40	42	46	48	47	44	39	32

Measurement point: 1692 m³/h; 278 Pa



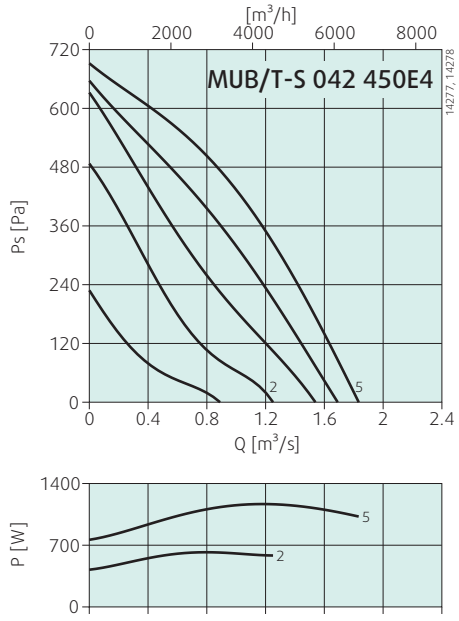
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	70	57	59	63	65	64	61	56	49
L_{WA} Outlet dB(A)	72	59	61	65	67	66	63	58	51
L_{WA} Surrounding dB(A)	54	41	43	47	49	48	45	40	33

Measurement point: 2160 m³/h; 354 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	70	57	59	63	65	64	61	56	49
L_{WA} Outlet dB(A)	72	59	61	65	67	66	63	58	51
L_{WA} Surrounding dB(A)	54	41	43	47	49	48	45	40	33

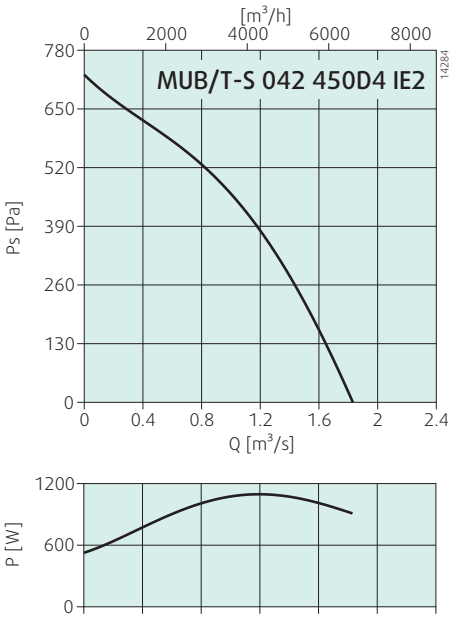
Measurement point: 2304 m³/h; 315 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{WA} Inlet dB(A)	71	58	60	64	66	65	62	47	50
L_{WA} Outlet dB(A)	73	60	62	66	68	67	64	59	52
L_{WA} Surrounding dB(A)	56	43	45	49	51	50	47	42	35

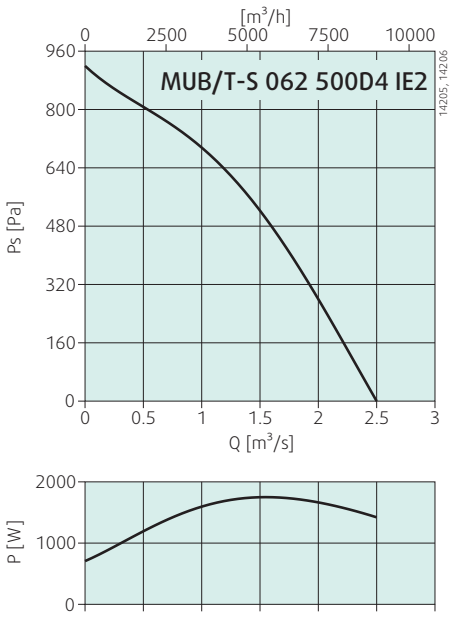
Measurement point: 3636 m³/h; 459 Pa

Performance



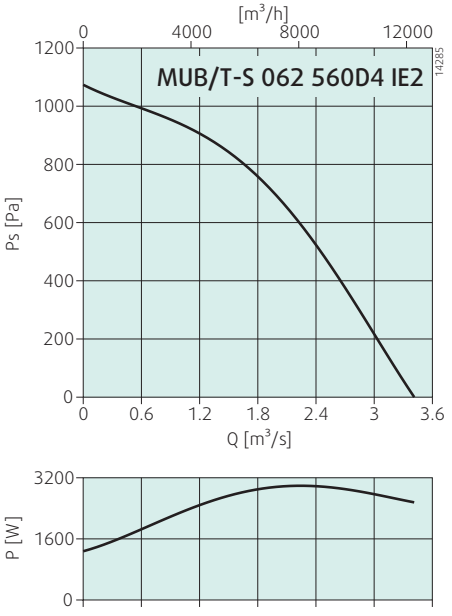
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	59	61	65	67	66	63	48	51
L_{wA} Outlet dB(A)	74	61	63	67	69	68	65	60	53
L_{wA} Surrounding dB(A)	57	44	46	50	52	51	48	43	36

Measurement point: 3636 m³/h; 430 Pa



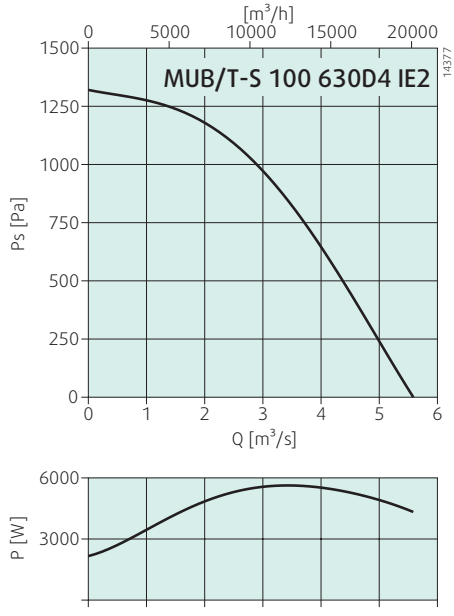
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	62	64	68	70	69	66	61	54
L_{wA} Outlet dB(A)	77	64	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	60	47	49	53	55	54	51	46	39

Measurement point: 4932 m³/h; 573 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	65	67	71	73	72	69	64	57
L_{wA} Outlet dB(A)	80	67	69	73	75	74	71	66	59
L_{wA} Surrounding dB(A)	63	50	52	56	58	57	54	49	42

Measurement point: 6156 m³/h; 787 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	58	76	80	82	81	78	73	65
L_{wA} Outlet dB(A)	89	60	78	82	84	83	80	75	67
L_{wA} Surrounding dB(A)	81	52	70	74	76	75	72	67	59

Measurement point: 10800 m³/h; 953 Pa



Thermofans MUB/T-S EC

Straight, powerful and now even more energy efficient:
The new inline-extract-solution for commercial kitchens with EC technology



Roof fans



TFSK EC 198



Roof fan,
with EC motor

TFSR EC 204



Roof fan,
with EC motor

TFSK 200



Roof fan,
horizontal outlet

TFSR 206



Roof fan,
horizontal outlet

Our classics

Systemair roof fans are available in a large number of versions so that you can make the ideal selection for your individual situation.

Extremely robust and durable, they ensure reliable air extraction solutions in all kinds of buildings.
With our wide range of accessories, you can put together your own customised ventilation system.

DHA 210

Supply air roof fan

DHS/DHS sileo 224

Roof fan,
low sound level

DVN/DVNI 246

Roof fan, vertical outlet,
up to 120°C

DVC/DVCI 214

Roof fan,
with EC motor

DVS/DVSI sileo 228

Roof fan,
low sound level

DVV 256

Roof fan, vertical outlet,
up to 120°C

DVC/DVCI-POC 214

Roof fan,
with EC motor

DVN/DVNI EC 242

Roof fan, vertical outlet,
up to 120°C, with EC motor

ZRS 260

Flue gas roof fan, vertical
outlet, up to 120°C

System solutions for roof fans

A perfect match!

DHS / DHS sileo

Example of an installation.
Also possible with DVS, DVN and DVC.



DHS / DHS sileo
Roof fan
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VKS
Automatic shutter
Page 553

SSD
Socket silencer
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ASK
Connection box
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ASS
Flexible connection
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ASF
Inlet flange
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DVS / DVSI sileo

Example of an installation.
Also possible with DHS, DVN and DVC.



DVS / DVSI sileo
Roof fan
Page 228

FTG
Tilting device
Page 543

TDA
Adapter frame
Page 543

VKS
Automatic shutter
Page 553

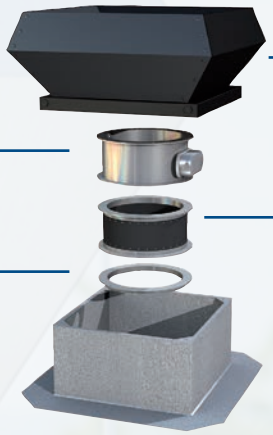
ASS
Flexible connection
Page 542

ASF
Inlet flange
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FDS
Flat roof socket
Page 546

DVS / DVSI sileo

Example of an installation.
Also possible with DHS, DVN and DVC.



DVS / DVSI sileo
Roof fan
Page 228

VKM
Motor driven shutter
Page 553

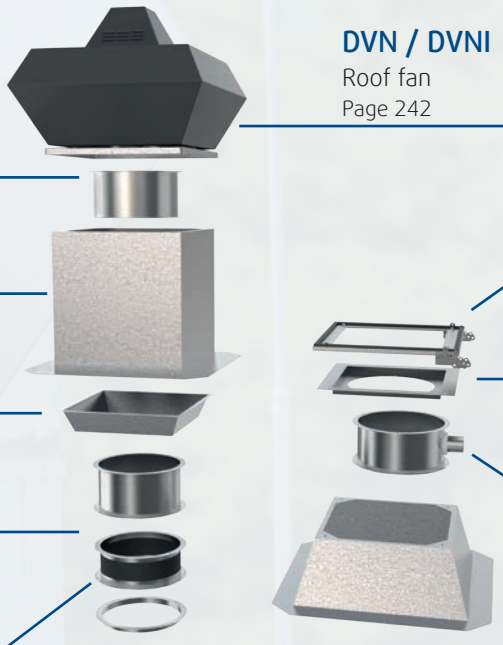
ASS
Flexible connection
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DVN/DVNI

Example of an installation.
Also possible with DHS, DVS and DVC.



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Roof fan
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Page 543

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Motor driven shutter
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TFSK EC

Roof fan



- High efficiency across the entire system characteristic field
- Small and compact extract air fan; ideal for storage areas, offices etc.
- Swing out for simple cleaning and maintenance
- Protective grille prevents unintended contact with the impeller
- Includes 1 m cable and maintenance switch for simple installation

Casing
Casing made from black powder coated galvanised sheet steel.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



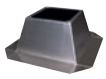
ASF
Inlet flange
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ASK
Connection box
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ASS
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FDS
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LDC
Silencer
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RSK
Damper
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TDA DV
Adapter
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VKS
Back draft damper
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Electrical accessories



CO2RT
Transmitter
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CXE/AVC
Digital regulator
Page 499



EC-Vent/Basic
Control unit
Page 485



HR1
Room humidistat
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MTP
Speed control
Page 484



MTV
Speed control
Page 487

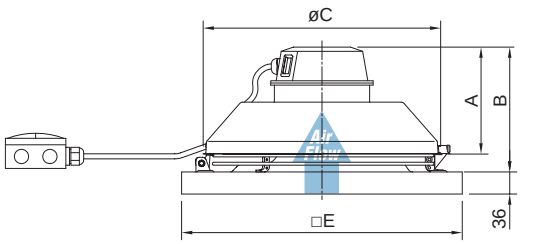


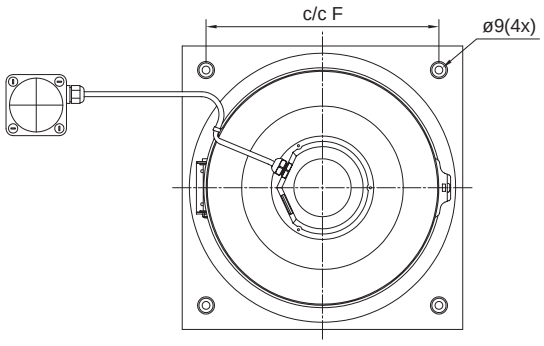
IR24-P
Presence detector
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Room thermostat
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Dimensions





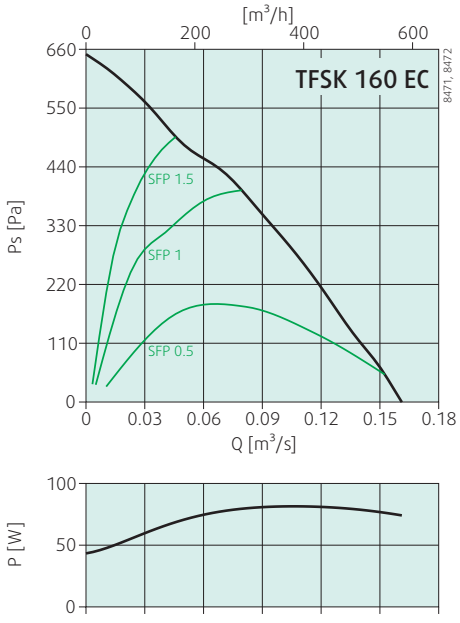
TFSK	A	B	øC	□E	c/cF
160 EC	147	172	334	421	330
200 EC	150	187	364	421	330

Technical data

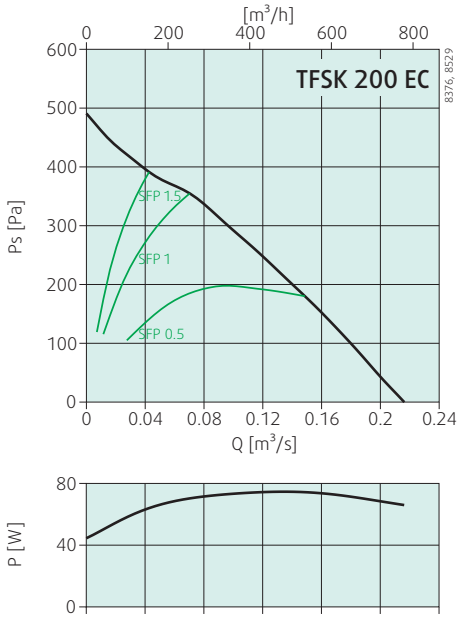
TFSK EC		TFSK 160 EC	TFSK 200 EC
Art. no.		*1223*	*1224*
Voltage	V	230	230
Frequency	Hz	50/60	50/60
Phase	~	1	1
Input power (P1)	W	81.5	74.6
Current	A	0.64	0.587
Max. airflow	m^3/h	580	778
Fan impeller speed	r.p.m.	3162	2501
Max. temperature of transported air	°C	45	45
* when voltage-controlled	°C	45	45
Sound pressure level at 10 m (free field)	dB(A)	43.3	42.9
Weight	kg	4.7	6.2
Insulation class		B	B
Enclosure class, motor	IP	44	44
Colour		Black	Black
Speed control, stepless [1]	electr.	MTP 10	MTP 10

[1] Systemair recommendation. More alternatives can be found on page 478.

Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	55	70	70	71	70	67	63	50
L_{wA} Outlet dB(A)	75	41	57	57	68	71	69	64	54
Measurement point: 105 l/s; 286 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	46	59	64	68	71	65	61	51
L_{wA} Outlet dB(A)	76	24	52	61	68	72	71	64	54
Measurement point: 168 l/s; 132 Pa									

TFSK

Roof fan



- Small and compact extract air fan; ideal for storage areas, offices etc.
- Swing out for simple cleaning and maintenance
- Protective grille prevents unintended contact with the impeller
- Includes 1 m cable and maintenance switch for simple installation

Casing
Casing made from black powder coated galvanised steel. Available in black or brick red.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via transformer and thyristor speed controller.

Motor protection
Integrated thermal contacts in accordance with EN60335-2-80, with manual reset.

You can find more information in our online catalogue on www.systemair.com

Accessories



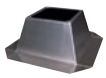
ASF
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ASS
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LDC
Silencer
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RSK
Damper
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SSD
Socket silencer
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TDA DV
Adapter
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VKM
Back draft damper
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VKS
Back draft damper
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Electrical accessories



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Transmitter
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DTV
Pressure switchr
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MicroREX
Time switch
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HR1
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RE / REU
Speed control
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REE
Speed control
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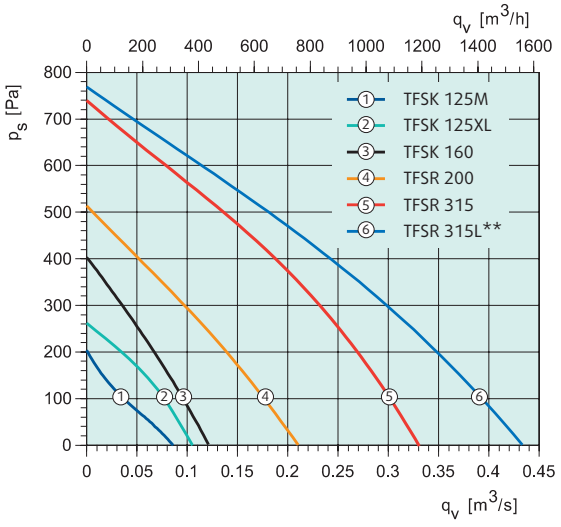


IR24-P
Presence detector
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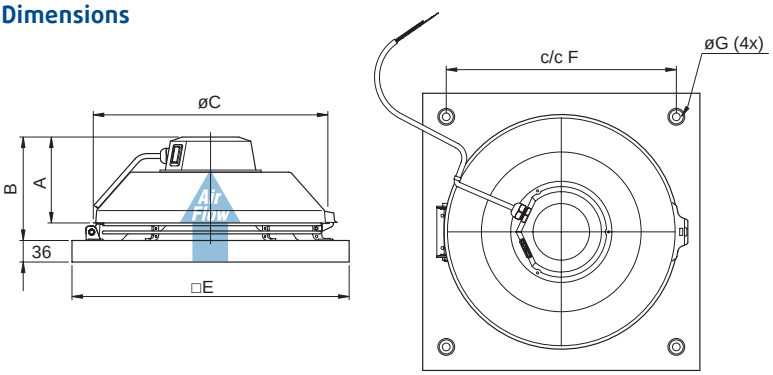


RT
Room thermostat
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Quick selection



Dimensions



TFSK	A	B	øC	□E	c/cF	øG
TFSK 125 M/XL	119	144	284	321	245	9
TFSK 160	120	145	334	421	330	9
TFSK 200	123	160	364	421	330	9
TFSK 315	160	206	404	521	450	11
TFSK 315 M/L	160	206	404	521	450	11

Technical data

TFSK		TFSK 125 M	TFSK 125 XL	TFSK 160	TFSK 200
Art. no.		*1344*	*1346*	*1348*	*1349*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	24.8	53.9	58.3	108
Current	A	0.13	0.261	0.256	0.466
Max. airflow	m^3/h	310	382	436	749
Fan impeller speed	r.p.m.	1965	2531	2461	2537
Max. temperature of transported air	°C	70	40.1	70	62
* when voltage-controlled	°C	70	40.1	70	62
Sound pressure level at 10 m (free field)	dB(A)	23.3	32.9	35.6	40.2
Weight	kg	2.5	3.3	3.3	4.2
Insulation class		B	F	B	B
Enclosure class, motor	IP	44	44	44	44
Capacitor	µF	1.5	1.5	2	3
Colour		Black	Black	Black	Black
Speed control, 5-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless (1)	elektr.	REE 1	REE 1	REE 1	REE 1

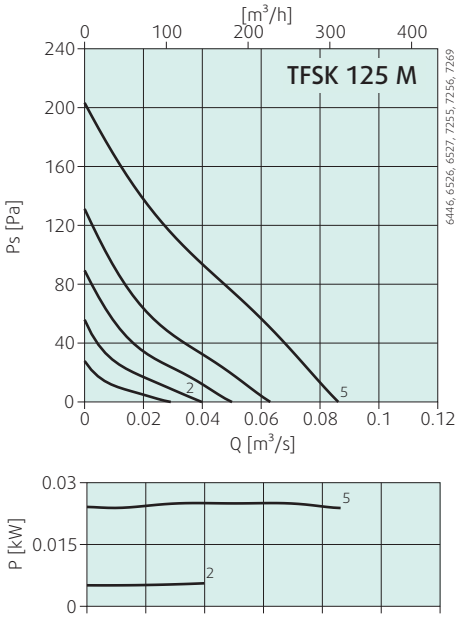
TFSK		TFSK 315	TFSK 315 M **	TFSK315L **	
Art. no.		*27644*	*27764*	*19534*	
Voltage	V	230	230	230	
Frequency	Hz	50	50	50	
Phase	~	1	1	1	
Input power (P1)	W	231	199	329	
Current	A	1	0.879	1.43	
Max. airflow	m^3/h	1249	1199	1598	
Fan impeller speed	r.p.m.	2785	2505	2401	
Capacitor	µF	5	5	8	
Weight	kg	10.8	9.7	10.7	
Max. temperature of transported air	°C	70	67.2	42.2	
*when voltage-controlled	°C	70	60.3	38	
Sound pressure level at 10 m (free field)	dB(A)	44	44	53	
Insulation class		F	F	F	
Enclosure class, motor	IP	IP44	IP44	44	
Colour		Black	Black	Black	
Speed control, 5-step (1)	Transf.	RE 1.5	RE 1.5	RE 1.5	
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	
Speed control, stepless (1)	elektr.	REE 1	REE 1	REE 1	

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

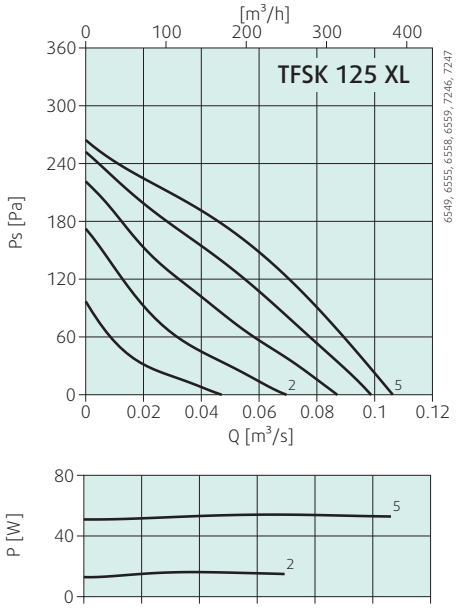
(1) Systemair recommendation. More alternatives can be found on page 478.



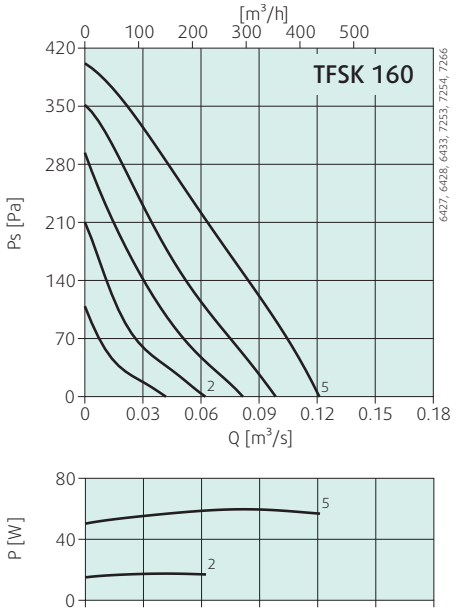
Performance



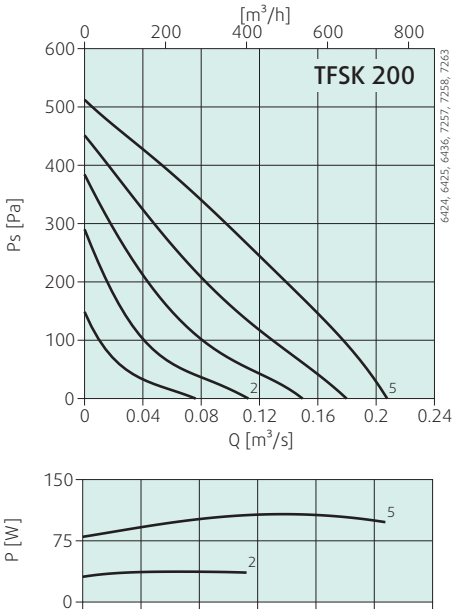
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	60	48	47	55	52	52	55	35	26
LwA Outlet dB(A)	58	29	38	48	48	52	55	40	28
Measurement point: 68.3 l/s; 39.4 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	65	50	58	58	57	58	58	44	35
LwA Outlet dB(A)	63	42	47	48	52	57	61	46	35
Measurement point: 85 l/s; 74.5 Pa									

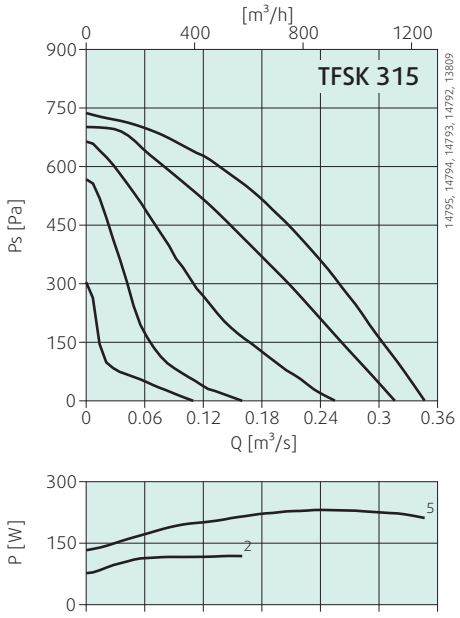


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	70	48	63	63	62	63	61	56	43
LwA Outlet dB(A)	70	24	54	55	60	64	65	62	53
Measurement point: 109 l/s; 52.3 Pa									

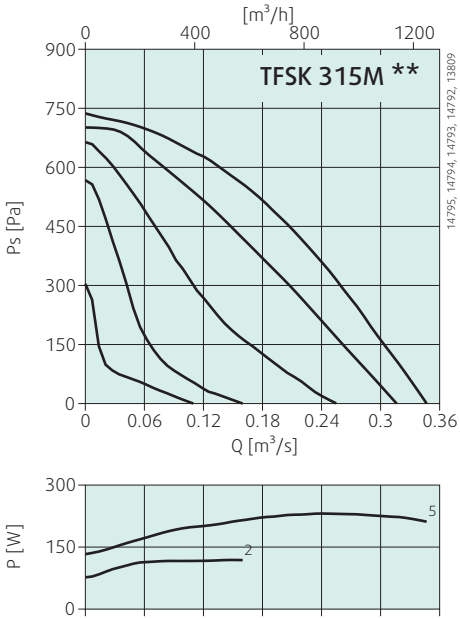


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	71	46	58	62	64	67	65	59	53
LwA Outlet dB(A)	73	29	48	54	62	68	69	64	55
Measurement point: 164 l/s; 136 Pa									

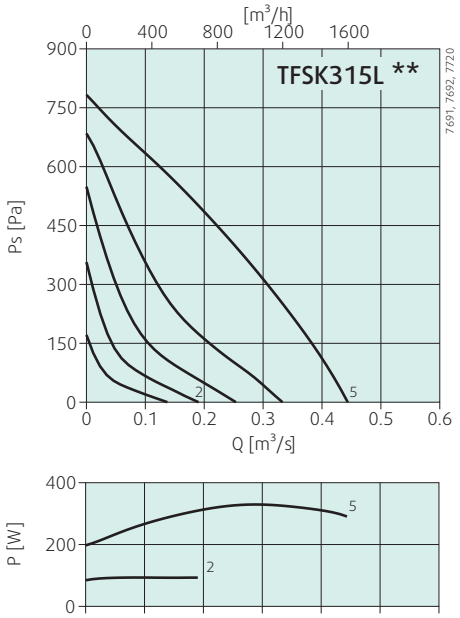
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	57	63	66	68	68	67	63	57
LwA Outlet dB(A)	75	39	54	60	67	71	70	62	58
Measurement point: 181.5 l/s; 513 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	57	63	66	68	68	67	63	57
Measurement point: 181.5 l/s; 513 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	78	47	69	67	75	70	68	65	56
LwA Outlet dB(A)	83	33	61	64	81	78	74	66	59
Measurement point: 337 l/s; 243 Pa									

TFSR EC

Roof fan



- High efficiency across the entire system characteristic field
- Small and compact extract air fan; ideal for storage areas, offices etc.
- Swing out for simple cleaning and maintenance
- Protective grille prevents unintended contact with the impeller
- Includes 1 m cable and maintenance switch for simple installation

Casing
Casing made from black powder coated galvanised sheet steel.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box and preset to 10 V (factory setting). The speed can be easily adjusted should the installation require a different operating point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



LDC
Silencer
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RSK
Damper
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TOB
Roof covering plate
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TOS
Roof covering plate
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Transmitter
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CXE/AVC
Digital regulator
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EC-Vent/Basic
Control unit
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HR1
Room Humidistat
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MTP
Speed control
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MTV
Speed control
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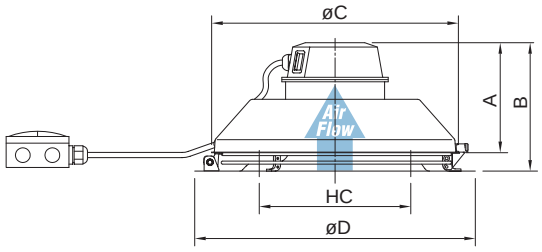


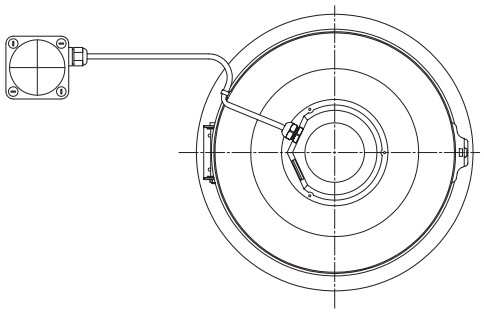
IR24-P
Presence detector
Page 496



RT
Room Thermostat
Page 490

Dimensions





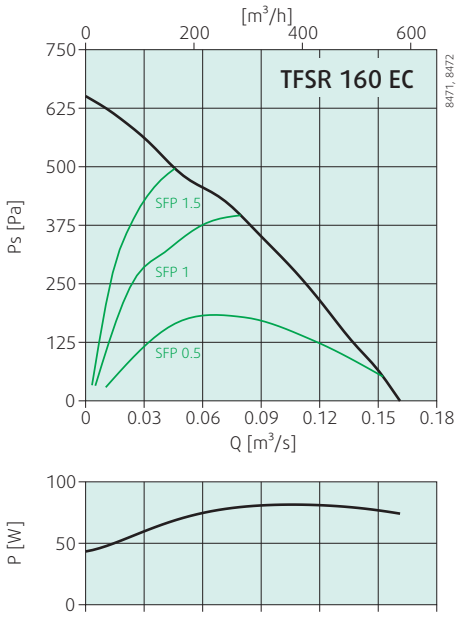
TFSR	A	B	øC	øD	HC
160 EC	147	172	334	380	205
200 EC	150	187	364	439	250

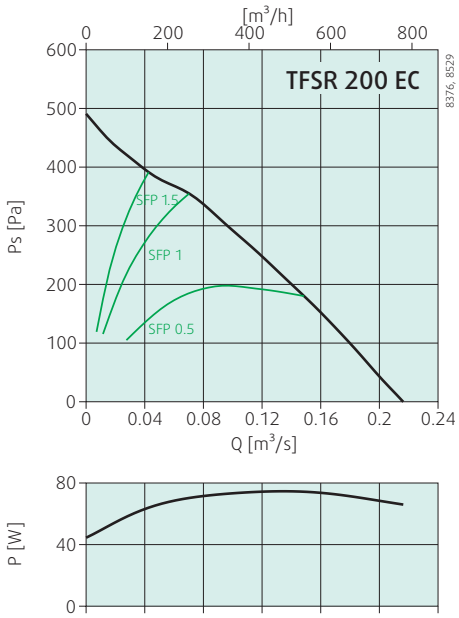
Technical data

TFSR EC		TFSR 160 EC	TFSR 200 EC
Art. no.		*1226*	*1227*
Voltage	V	230	230
Frequency	Hz	50/60	50/60
Phase	~	1	1
Input power (P1)	W	81.5	74.6
Current	A	0.64	0.587
Max. airflow	m^3/h	580	778
Fan impeller speed	r.p.m.	3162	2501
Max. temperature of transported air	°C	45	45
*when voltage-controlled	°C	45	45
Sound pressure level at 10 m (free field)	dB(A)	43.3	42.9
Weight	kg	4.3	5.4
Insulation class		B	B
Enclosure class, motor	IP	44	44
Colour		Black	Black
Speed control, stepless [1]	electr.	MTP 10	MTP 10

[1] Systemair recommendation. More alternatives can be found on page 478.

Performance





Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	77	55	70	70	71	70	67	63	50
LwA Outlet dB(A)	75	41	57	57	68	71	69	64	54
Measurement point: 105 l/s; 286 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	46	59	64	68	71	65	61	51
LwA Outlet dB(A)	76	24	52	61	68	72	71	64	54
Measurement point: 168 l/s; 132 Pa									

TFSR

Roof fan



- Small and compact extract air fan; ideal for storage areas, offices etc.
- Swing out for simple cleaning and maintenance
- Protective grille prevents unintended contact with the impeller
- Includes 1 m cable and maintenance switch for simple installation

Casing
Casing made from black powder coated galvanised sheet steel. Available in black or brick red.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Speed controllable via transformer and thyristor speed controller.

Motor protection
Integrated thermal contacts in accordance with EN60335-2-80, with manual reset.

You can find more information in our online catalogue on www.systemair.com

Accessories



LDC
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RSK
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Roof covering plate
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Electrical accessories



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MicroREX
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RE / REU
Speed control
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REE
Speed control
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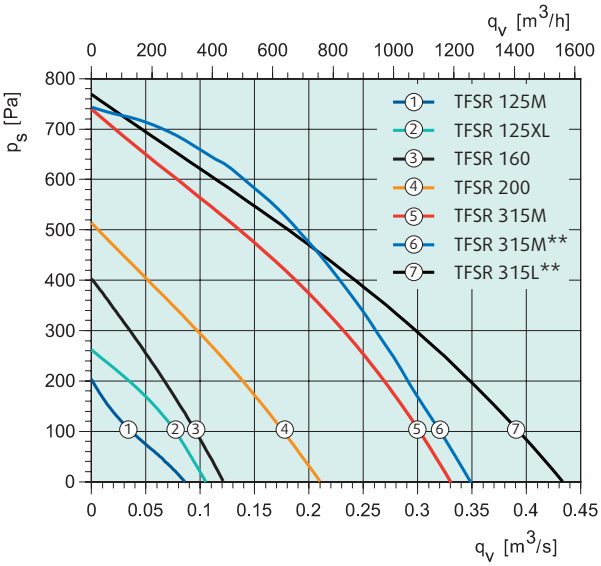


IR24-P
Presence detector
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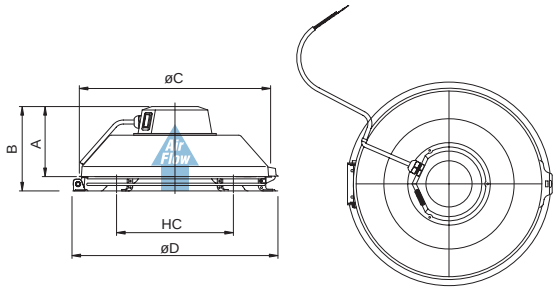


RT
Room thermostat
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Quick selection



Dimensions



TFSR	A	B	øC	øD	HC
125M/XL	119	144	284	315	205
160	120	145	334	380	205
200	123	160	364	439	250
315 M/L	160	206	404	485	250

Technical data

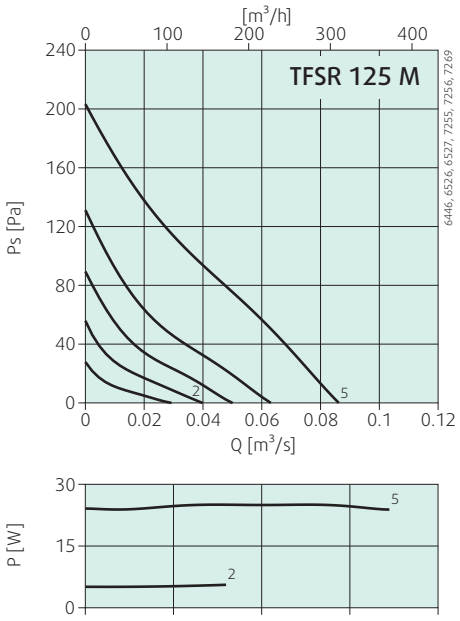
TFSR		TFSR 125 M	TFSR 125 XL	TFSR 160	TFSR 200
Art. no.		*1330*	*1332*	*1333*	*1334*
Voltage	V	230	230	230	230
Frequency	Hz	50	50	50	50
Phase	~	1	1	1	1
Input power (P1)	W	24.8	53.9	58.3	108
Current	A	0.13	0.261	0.256	0.466
Max. airflow	m^3/h	310	382	436	749
Fan impeller speed	r.p.m.	1965	2531	2461	2537
Max. temperature of transported air	°C	70	40	70	62
* when voltage-controlled	°C	70	40	70	62
Sound pressure level at 10 m (free field)	dB(A)	23.3	32.9	35.6	40.2
Weight	kg	2.5	2.5	3.3	4.2
Insulation class		B	F	B	B
Enclosure class, motor	IP	44	44	44	44
Capacitor	µF	1.5	1.5	2	3
Colour		Black	Black	Black	Black
Speed control, 5-step [1]	Transf.	RE 1.5	RE 1.5	RE 1.5	RE 1.5
Speed control, 5-step high/low [1]	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless [1]	elektr.	REE 1	REE 1	REE 1	REE 1

TFSR		TFSR 315 M	TFSR 315 M**	TFSR315L**
Art. no.		*27426*	*27765*	*19539*
Voltage	V	230	230	230
Frequency	Hz	50	50	50
Phase	~	1	1	1
Input power (P1)	W	231	199	329
Current	A	1.0	0.879	1.43
Max. airflow	m^3/h	1249	1199	1598
Fan impeller speed	r.p.m.	2785	2505	2401
Capacitor	µF	5	5	8
Weight	kg	9.1	8	9.1
Max. temperature of transported air	°C	70	67	42
* when voltage-controlled	°C	70	60	38
Sound pressure level at 10 m (free field)	dB(A)	55	44	53
Insulation class		F	F	F
Enclosure class, motor	IP	44	44	44
Colour		Black	Black	Black
Speed control, 5-step [1]	Transf.	RE 1.5	RE 1.5	RE 1.5
Speed control, 5-step high/low [1]	Transf.	REU 1.5	REU 1.5	REU 1.5
Speed control, stepless [1]	elektr.	REE 1	REE 1	REE 2

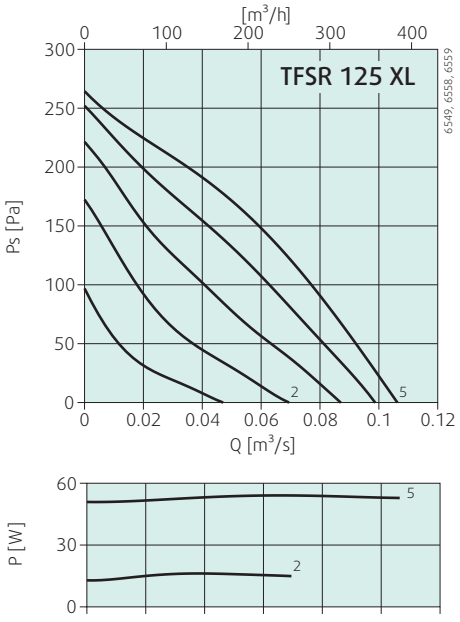
[**] Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

[1] Systemair recommendation. More alternatives can be found on page 478.

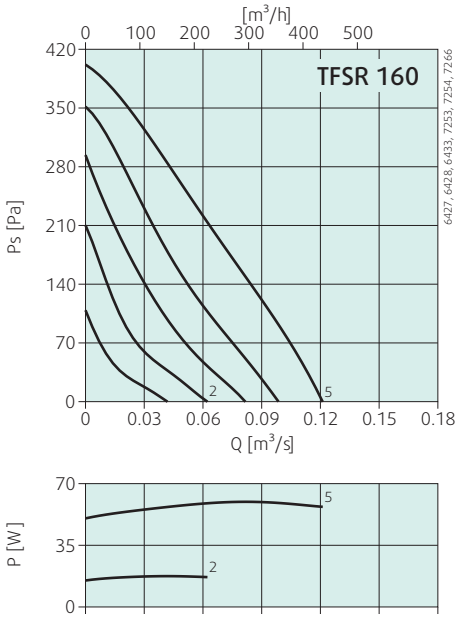
Performance



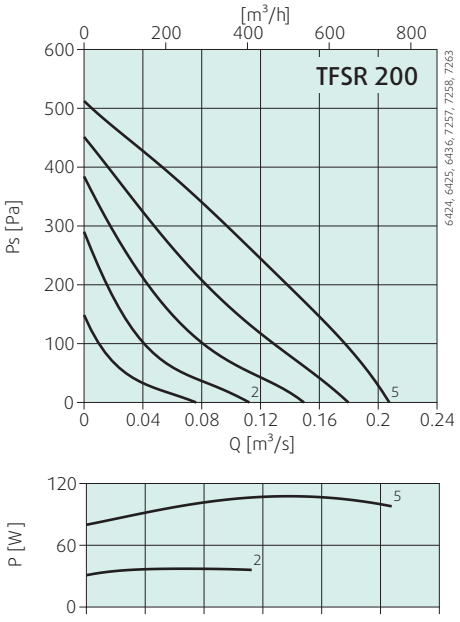
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	60	48	47	55	52	52	55	35	26
LwA Outlet dB(A)	58	29	38	48	48	52	55	40	28
Measurement point: 68.3 l/s; 39.4 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	65	50	58	58	57	58	58	44	35
LwA Outlet dB(A)	63	42	47	48	52	57	61	46	35
Measurement point: 85 l/s; 74.5 Pa									

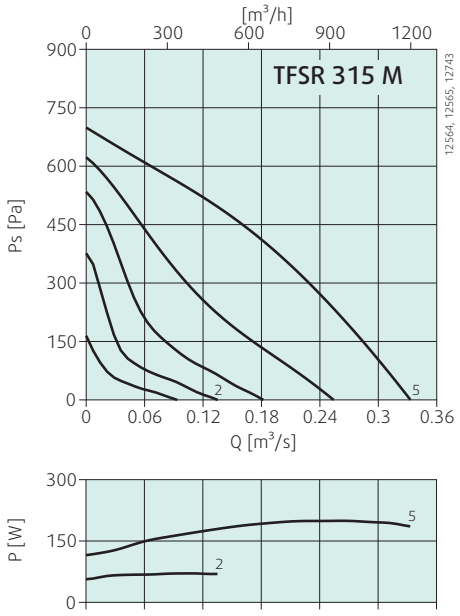


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	70	48	63	63	62	63	61	56	43
LwA Outlet dB(A)	70	24	54	55	60	64	65	62	53
Measurement point: 109 l/s; 52.3 Pa									

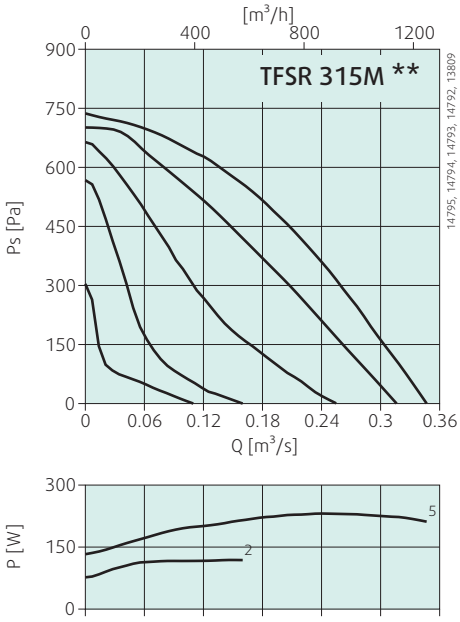


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	71	46	58	62	64	67	65	59	53
LwA Outlet dB(A)	73	29	48	54	62	68	69	64	55
Measurement point: 164 l/s; 136 Pa									

Performance

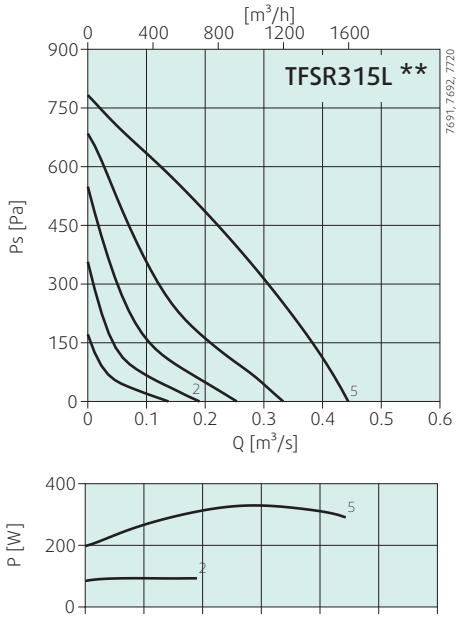


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	57	63	66	68	68	67	63	57
LwA Outlet dB(A)	75	39	54	60	67	71	70	62	58
Measurement point: 181.5 l/s; 513 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	57	63	66	68	68	67	63	57

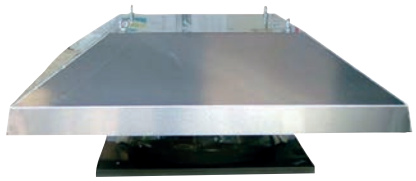
Measurement point: 181.5 l/s; 513 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	78	47	69	67	75	70	68	65	56
LwA Outlet dB(A)	83	33	61	64	81	78	74	66	59
Measurement point: 337 l/s; 243 Pa									

DHA

Axial roof fan



- Axial roof fan for supply air
- Speed controllable
- Integrated thermal contacts

Casing
Casing and base frame manufactured from galvanized sheet steel, powder coated RAL 7010; cowl manufactured from seawater resistant aluminium.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Impeller blades with bionic shape are manufactured from high efficiency composite material.

Output control
Three phase version that can be switched between D/Y connection for two speeds.

Motor protection
Motor protection via integral thermal contacts with external leads for connection to a motor protection switch.

You can find more information in our online catalogue on www.systemair.com

Electrical accessories



STDT
Motor protection
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S-ET 10
Motor protection
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AWE-SK
Motor protection
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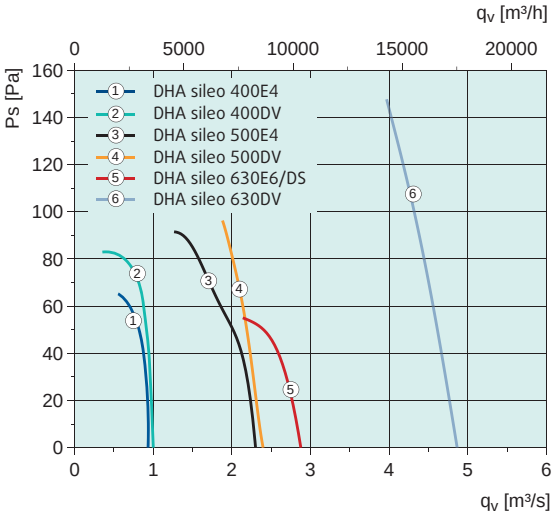


RTRD / RTRDU
Speed control
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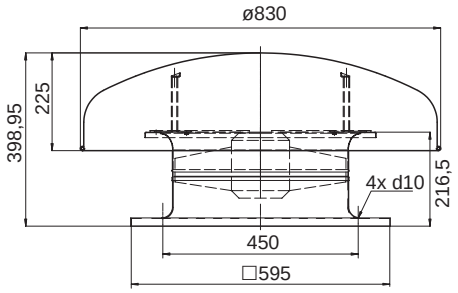
REV
Switching device
Page 510

Quick selection

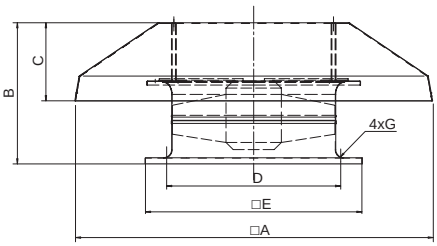


Dimensions

DHA 400



DHA 500/560



DHA	□A	B	C	D	□E	G
500	1100	434	240	535	665*	4xø12
630	1282	481.5	240	750	939*	4xø14

(*) inside

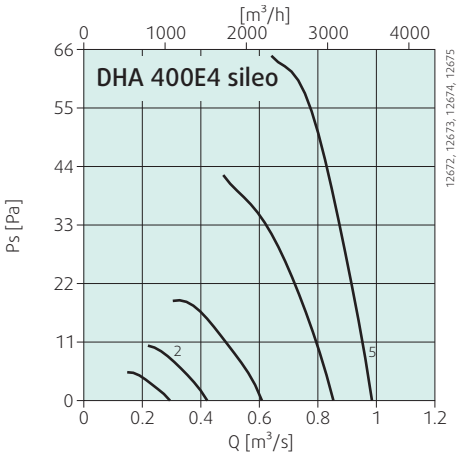
Technical data

DHA		DHA 400E4	DHA 400DV	DHA 500E4	DHA 500DV
Art. no.		*34500*	*34501*	*34502*	*34503*
Voltage	V	230	400	230	400
Frequency	Hz	50	50	50	50
Phase	~	1	3	1	3
Input power (P1)	W	240	230	750	770
Current	A	1.1	0.44	3.35	1.7
Max. airflow	m^3/h	3546	3600	8280	8579
Fan impeller speed	r.p.m.	1375	1370	1230	1300
Max. temperature of transported air	°C	65	70	70	70
Sound pressure level at 10 m (free field)	dB(A)	40.7	40.8	45.4	45.5
Weight	kg	17.7	17.5	35.2	35
Insulation class		F	F	F	F
Enclosure class. motor	IP	54	54	54	54
Capacitor	µF	5	-	16	-
Motor protection (1)	.	S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control. 5-step (1)	Transf.	RTRE 1.5	RTRD 2	RTRE 5	RTRD 2
Speed control. 5-step high/low (1)	Transf.	REU 1.5	RTRDU 2	REU 5*	RTRDU 2
Speed control. two step. 400 D/Y (1)		-	S-DT2 SKT	-	S-DT2 SKT
Speed control. stepless (1)	electr.	REE 2*	-	REE 4*	-

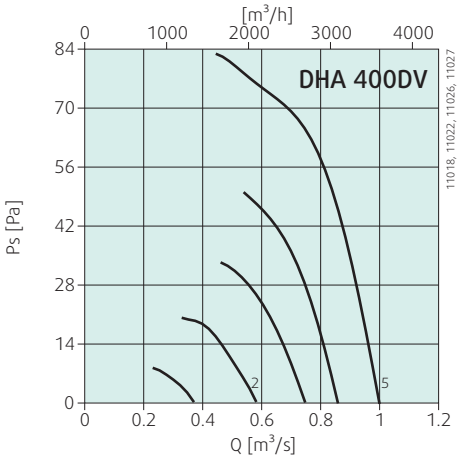
DHA		DHA 630E6	DHA 630DS	DHA 630DV	
Art. no.		*34504*	*34505*	*34506*	
Voltage	V	230	400	400	
Frequency	Hz	50	50	50	
Phase	~	1	3	3	
Input power (P1)	W	730	630	2400	
Current	A	3.4	1.25	4.75	
Max. airflow	m^3/h	10429	10368	17518	
Fan impeller speed	r.p.m.	910	903	1320	
Max. temperature of transported air	°C	70	70	65	
Sound pressure level at 10 m (free field)	dB(A)	43.2	42.8	55.7	
Weight	kg	51	51	37	
Insulation class		F	F	F	
Enclosure class, motor	IP	54	54	54	
Capacitor	µF	16	-	-	
Motor protection (1)		S-ET 10	STDT 16	STDT 16	
Speed control, 5-step (1)	Transf.	RTRE 5	RTRD 2	RTRD 7	
Speed control, 5-step high/low (1)	Transf.	REU 5*	RTRDU 2	RTRDU 7	
Speed control, two step, 400 D/Y (1)		-	S-DT2 SKT	S-DT2 SKT	
Speed control, stepless (1)	electr.	-	-	-	

(1) Systemair recommendation. More alternatives can be found on page 478.
(*) + S-ET 10

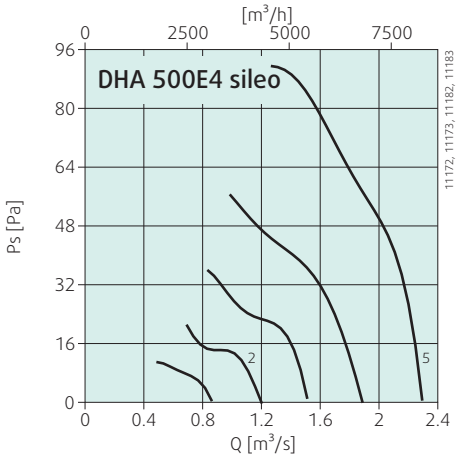
Performance



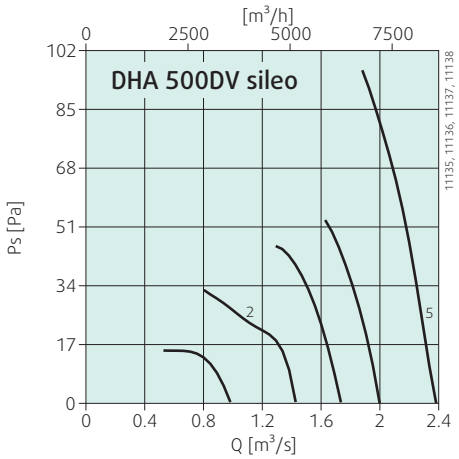
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	72	39	66	65	66	66	63	58	50
LwA Outlet dB(A)	75	37	60	63	69	70	68	62	54
Measurement point: 880 l/s; 31.5 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	71	38	61	63	64	65	62	58	51
LwA Outlet dB(A)	76	46	59	68	71	70	68	62	54
Measurement point: 924 l/s; 27.2 Pa									

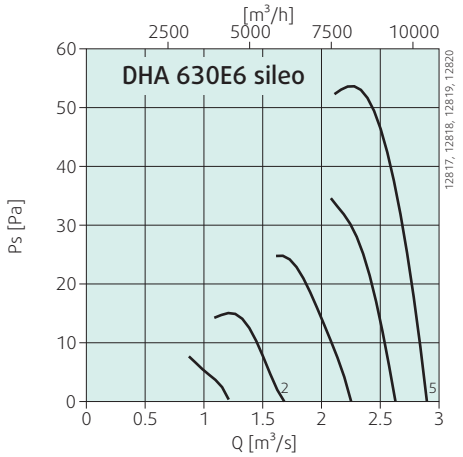


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	78	45	70	74	70	70	66	63	55
LwA Outlet dB(A)	78	43	66	69	73	73	70	67	61
Measurement point: 2091 l/s; 43.6 Pa									

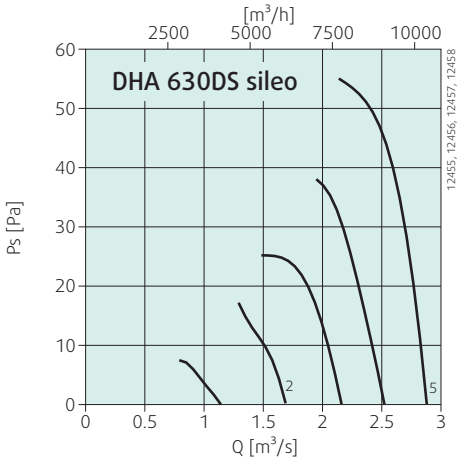


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	32	69	65	67	68	63	59	52
LwA Outlet dB(A)	79	44	67	68	75	74	70	66	59
Measurement point: 2184 l/s; 51.2 Pa									

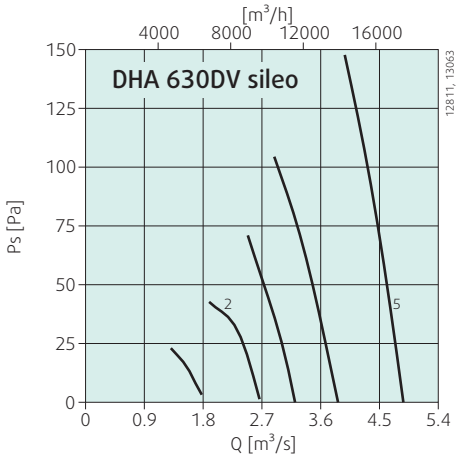
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	75	47	66	68	69	69	65	62	56
LwA Outlet dB(A)	78	47	65	69	73	73	70	67	61
Measurement point: 2638 l/s; 35.4 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	75	45	66	67	69	70	65	62	55
LwA Outlet dB(A)	79	52	65	70	73	74	71	67	61
Measurement point: 2656 l/s; 34.2 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	87	52	78	77	80	83	80	73	65
LwA Outlet dB(A)	90	51	76	78	84	87	84	77	70
Measurement point: 4157 l/s; 123 Pa									

DVC / DVCI
DVC-POC / DVCI-POC

Roof fan



- High efficiency across the entire system characteristic field
- P version with integrated pressure regulator unit for simple implementation of constant pressure control
- S version: stepless control via 0-10 V signal, integrated potentiometer for commissioning
- DVC(I)-POC includes pressure regulator and temperature sensor for external temperature compensation

Casing
Casing made from sea water resistant aluminium. Base frame manufactured from galvanised steel. DVCI / DVCI-POC with 50 mm mineral wool acoustic and thermal insulation.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
100 % controllable. The DVC(I)-S fans are equipped with a potentiometer (0-10 V), installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point. DVC(I)-P with integrated pressure regulator unit for constant pressure control. DVC(I)-POC with integrated pressure regulator and temperature sensor for external temperature compensation. The programming for constant pressure control can be executed with and without external temperature compensation.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



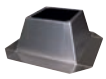
ASF
Inlet flange
Page 542



ASK
Connection box
Page 543



ASS
Flex. connection
Page 542



FDS / FDS-L
Flat roof socket
Page 546



FTG
Tilting device
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TG
Roof curb
Page 545



SSD
Socket silencer
Page 547



TDA DV
Adapter
Page 543



VKM
Back draft damper
Page 553



VKS
Back draft damper
Page 553

Electrical accessories



CO2RT
Transmitter
Page 501



CXE/AVC
Digital regulator
Page 499



EC-Vent/Basic
Control unit
Page 485



HR1
Room Humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 487

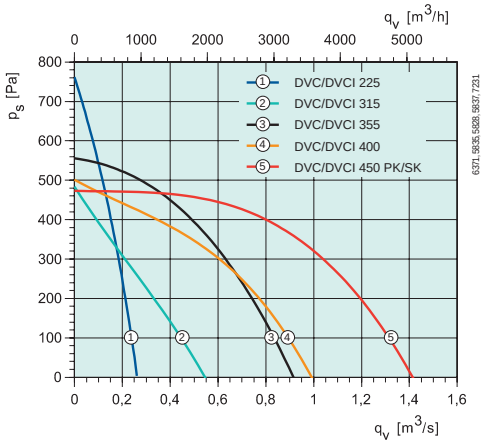


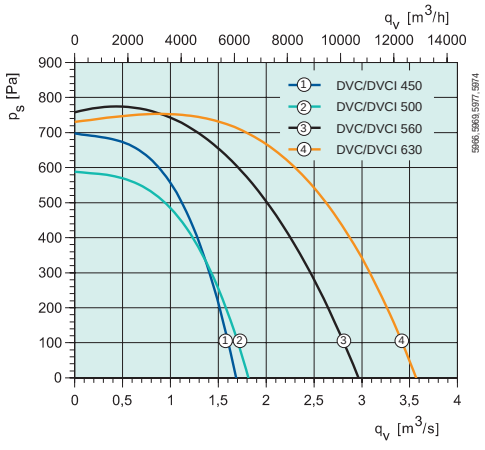
REV
Switching device
Page 510

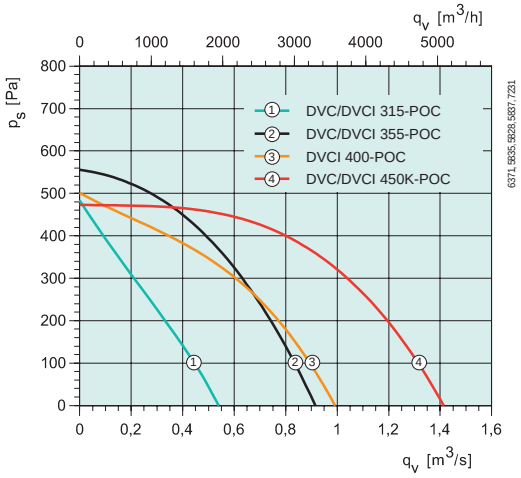


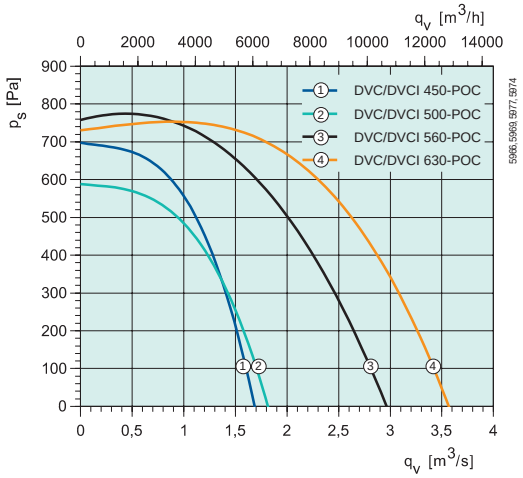
RT
Room Thermostat
Page 490

Quick selection

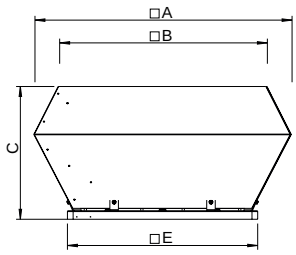


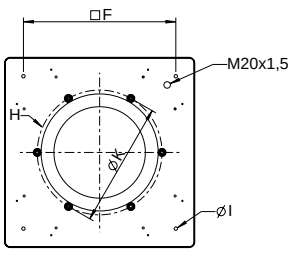




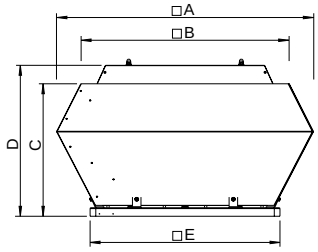


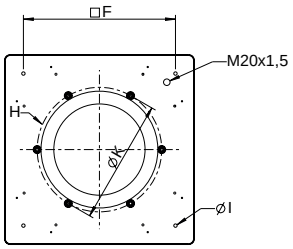
Dimensions



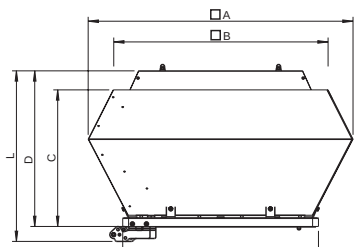


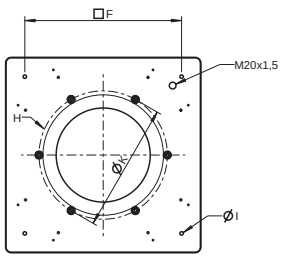
DVC/DVCI-S	□A	□B	C	□E	□F	H	øK	øI
190-225	370/497	295/442	170/211	335	245	6xM6	285	10(4x)
315	560/690	470/583	330/369	435	330	6xM6	285	10(4x)
355-400	720/874	618/648	390/439	595	450	6xM8	438	12(4x)
450-500	900/968	730/730	465/479	665	535	6xM8	438	12(4x)
560-630	1150/1315	960/1130	560/600	939	750	8xM8	605	14(4x)





DVC/DVCI-P	□A	□B	C	D	□E	□F	H	øK	øI
190-225	370/497	320/442	175/211	-	335	245	6XM6	285	10(4x)
315	560/690	470/583	330/369	392.5	435	330	6xM6	285	10(4x)
355-400	720/874	618/648	390/439	454	595	450	6xM8	438	12(4x)
450-500	900/970	730/730	465/479	516	665	535	6xM8	438	12(4x)
560-630	1150/1315	960/1130	565/600	565	939	750	6xM8	605	14(4x)





DVC/DVCI-POC	□A	□B	C	D	□E	□F	H	øI	øK	L
315	560/690	470/583	330/369	392.5	435	330	6XM6	10(4x)	285	463
355-400	720/874	618/648	390/439	454	595	450	6xM6	12(4x)	438	524
450-500	900/968	730/730	465/479	516	665	535	6xM8	12(4x)	438	586
560-630	1150/1315	960/1130	565/600	619	939	750	6xM8	14(4x)	605	-

Technical data

DVC		DVC 190-S Poti	DVC 225-P	DVC 225-S Poti	DVC 315-P	DVC 315-S Poti	DVC 355-P
Art. no.		*37756*	*30690*	*37757*	*30634*	*37758*	*30635*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1	1
Input power (P1)	W	87.8	166	166	173	173	381
Current	A	0.653	1.17	1.17	1.18	1.18	2.3
Max. airflow	m^3/h	709	940	940	1966	1966	3298
Fan impeller speed	r.p.m.	3114	3278	3278	1867	1867	1645
Max. temperature of transported air	°C	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	58	58	58	47	47	50
Sound pressure level at 10 m (free field)	dB(A)	51	50	51	39	39	42
Weight	kg	5.3	6.6	6.2	13	12.3	24.7
Insulation class		B	B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44	44

DVC		DVC 355-S Poti	DVC 400-P	DVC 400-S Poti	DVC 450-P	DVC 450-PK	DVC 450-S Poti
Art. no.		*37759*	*30682*	*37760*	*30683*	*31327*	*37761*
Voltage	V	230	230	230	400	230	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	3	1	3
Input power (P1)	W	381	381	381	1052	614	1052
Current	A	2.3	2.3	2.3	1.8	2.79	1.8
Max. airflow	m^3/h	3298	3600	3600	6109	5130	6109
Fan impeller speed	r.p.m.	1645	1348	1348	1558	1300	1558
Max. temperature of transported air	°C	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	50	49	49	55	53	56
Sound pressure level at 10 m (free field)	dB(A)	42	41	41	47	45	48
Weight	kg	22.6	25.3	23.6	36.2	36	35.4
Insulation class		B	B	B	B	B	B
Enclosure class, motor	IP	44	44	44	54	54	54

DVC		DVC 450-SK Poti	DVC 500-P	DVC 500-S Poti	DVC 560-P	DVC 560-S Poti	DVC 630-P	DVC 630-S Poti
Art. no.		*37762*	*30679*	*37763*	*30680*	*37764*	*30681*	*37765*
Voltage	V	230	400	400	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	3	3	3	3	3	3
Input power (P1)	W	616	989	989	1871	1871	2444	2444
Current	A	2.79	1.66	1.66	2.88	2.88	3.72	3.72
Max. airflow	m^3/h	5141	6599	6599	10771	10771	12920	12920
Fan impeller speed	r.p.m.	1300	1340	1340	1357	1357	1210	1210
Max. temperature of transported air	°C	60	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	53	55	55	63	63	64	64
Sound pressure level at 10 m (free field)	dB(A)	45	46	47	52	55	56	56
Weight	kg	33.9	38.5	37	73	73.2	80	80
Insulation class		B	B	B	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54	54

DVCI		DVCI 190-S Poti	DVCI 225-P	DVCI 225-S Poti	DVCI 315-P	DVCI 315-S Poti	DVCI 355-P
Art. no.		*38098*	*30701*	*38099*	*30702*	*38350*	*30703*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1	1
Input power (P1)	W	87.8	170	170	169	170	408
Current	A	0.653	1.19	1.19	1.19	1.19	2.46
Max. airflow	m^3/h	709	943	943	2048	2048	3431
Fan impeller speed	r.p.m.	3114	3422	3422	1900	1900	1634
Max. temperature of transported air	°C	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	54	53	54	41	41	46
Sound pressure level at 10 m (free field)	dB(A)	46	45	46	33	33	38
Weight	kg	7.2	8.6	14	18.5	18	32.8
Insulation class		B	B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44	44

DVCI		DVCI 355-S Poti	DVCI 400-P	DVCI 400-S Poti	DVCI 450-P	DVCI 450-PK	DVCI 450-S Poti
Art. no.		*38351*	*30704*	*38352*	*30705*	*33195*	*38353*
Voltage	V	230	230	230	400	230	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	3	1	3
Input power (P1)	W	408	238	238	1060	614	1060
Current	A	2.46	1.48	1.48	1.75	2.79	1.75
Max. airflow	m^3/h	3431	3672	3672	6106	5141	6106
Fan impeller speed	r.p.m.	1634	1492	1492	1566	1300	1566
Max. temperature of transported air	°C	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	46	43	43	50	40	50
Sound pressure level at 10 m (free field)	dB(A)	38	35	35	42	32	42
Weight	kg	27.5	33.2	31	41.6	39.5	41
Insulation class		B	B	B	B	B	B
Enclosure class, motor	IP	44	54	54	54	54	54

DVCI		DVCI 450-SK Poti	DVCI 500-P	DVCI 500-S Poti	DVCI 560-P	DVCI 560-S Poti	DVCI 630-P	DVCI 630-S Poti
Art. no.		*38354*	*30706*	*38355*	*30707*	*38356*	*30708*	*38357*
Voltage	V	230	400	400	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	3	3	3	3	3	3
Input power (P1)	W	616	1057	1057	1921	1921	2408	2408
Current	A	2.79	1.76	1.76	2.83	2.83	3.72	3.72
Max. airflow	m^3/h	5141	6725	6725	10760	10760	13072	13072
Fan impeller speed	r.p.m.	1300	1338	1338	1358	1358	1206	1205
Max. temperature of transported air	°C	60	60	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	40	50	50	55	55	57	57
Sound pressure level at 10 m (free field)	dB(A)	32	43	42	47	47	49	49
Weight	kg	41	44	54	80	80	90	90
Insulation class		B	B	F	B	F	B	F
Enclosure class, motor	IP	54	54	54	54	54	54	54

Technical data

DVC-POC		DVC 315-POC+FTG	DVC 355-POC+FTG	DVC 400-POC+FTG	DVC 450-POC+FTG
Art. no.		*32953*	*32954*	*32955*	*32956*
Voltage	V	230	230	230	400
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	1	3
Input power (P1)	W	173	381	381	1052
Current	A	1.18	2.3	2.3	1.8
Max. airflow	m^3/h	1966	3298	3600	6109
Fan impeller speed	r.p.m.	1867	1645	1348	1558
Max. temperature of transported air	°C	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	47	50	49	56
Sound pressure level at 10 m (free field)	dB(A)	39	42	41	48
Weight	kg	17.3	27.7	29.2	41
Insulation class		B	B	B	B
Enclosure class, motor	IP	44	44	44	44

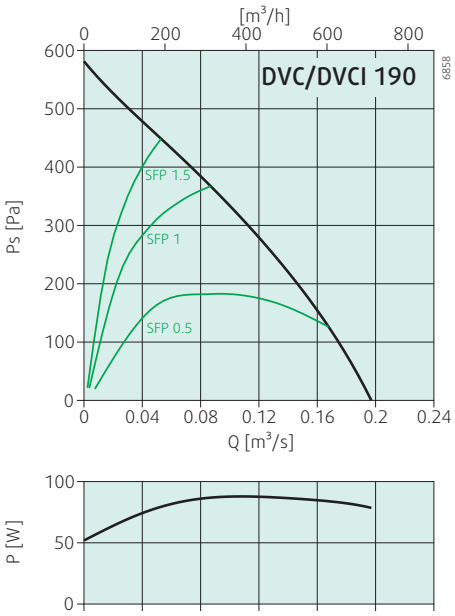
DVC-POC		DVC 450-K-POC+FTG	DVC 500-POC+FTG	DVC 560-POC	DVC 630-POC
Art. no.		*32957*	*32958*	*32959*	*32960*
Voltage	V	230	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	3	3	3
Input power (P1)	W	580	989	1871	2444
Current	A	2.79	1.66	2.88	3.72
Max. airflow	m^3/h	6600	6599	10771	12920
Fan impeller speed	r.p.m.	1250	1340	1357	1210
Max. temperature of transported air	°C	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	53	55	63	64
Sound pressure level at 10 m (free field)	dB(A)	45	47	55	56
Weight	kg	45	43	77	84
Insulation class		B	B	B	F
Enclosure class, motor	IP	54	54	54	54

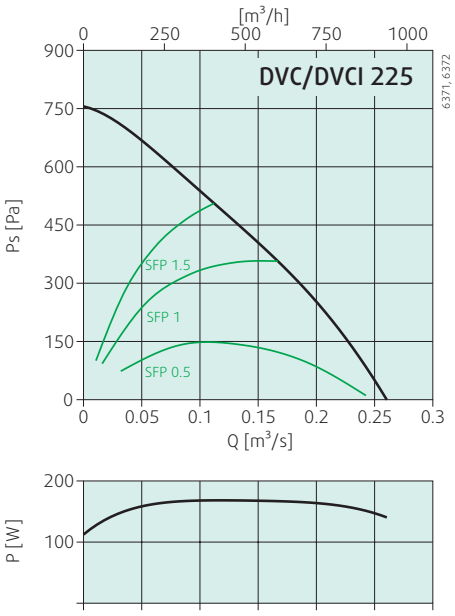
DVCI-POC		DVCI 315-POC+FTG	DVCI 355-POC+FTG	DVCI 400-POC+FTG	DVCI 450-K-POC+FTG
Art. no.		*33633*	*33587*	*33634*	*33635*
Voltage	V	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1
Input power (P1)	W	170	408	238	614
Current	A	1.19	2.46	1.48	2.79
Max. airflow	m^3/h	2048	3431	3672	5141
Fan impeller speed	r.p.m.	1900	1634	1492	1300
Max. temperature of transported air	°C	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	41	46	43	40
Sound pressure level at 10 m (free field)	dB(A)	33	38	35	32
Weight	kg	21.5	29.5	37	45.2
Insulation class		B	B	B	B
Enclosure class, motor	IP	44	44	54	54

DVCI-POC		DVCI 450-POC+FTG	DVCI 500-POC+FTG	DVCI 560-POC	DVCI 630-POC
Art. no.		*33636*	*33637*	*33638*	*33639*
Voltage	V	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	3	3	3	3
Input power (P1)	W	1060	1057	1921	2408
Current	A	1.75	1.76	2.83	3.72
Max. airflow	m^3/h	6106	6725	10760	13072
Fan impeller speed	r.p.m.	1566	1338	1358	1206
Max. temperature of transported air	°C	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	50	50	55	56
Sound pressure level at 10 m (free field)	dB(A)	42	42	47	48
Weight	kg	46	49	83	90
Insulation class		B	B	B	B
Enclosure class, motor	IP	54	54	54	54



Performance



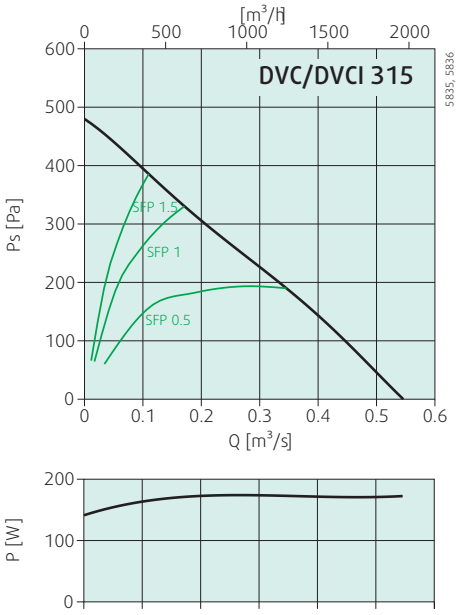


Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	44	58	64	74	72	72	70	60
L_{wA} Outlet dB(A)	82	45	58	62	77	74	77	73	63
Measurement point: 468 m^3/h; 448 Pa									
DVCI									
L_{wA} Inlet dB(A)	78	43	57	64	72	72	71	70	61
L_{wA} Outlet dB(A)	77	43	57	62	70	71	72	66	59
Measurement point: 479 m^3/h; 457 Pa									

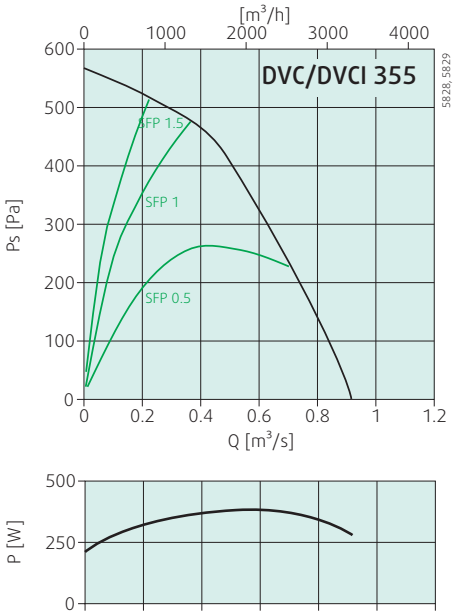
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	44	58	64	74	72	72	70	60
L_{wA} Outlet dB(A)	82	45	58	62	77	74	77	73	63
Measurement point: 482 m^3/h; 448 Pa									
DVCI									
L_{wA} Inlet dB(A)	78	43	57	64	72	72	71	70	61
L_{wA} Outlet dB(A)	77	43	57	62	70	71	72	66	59
Measurement point: 479 m^3/h; 457 Pa									



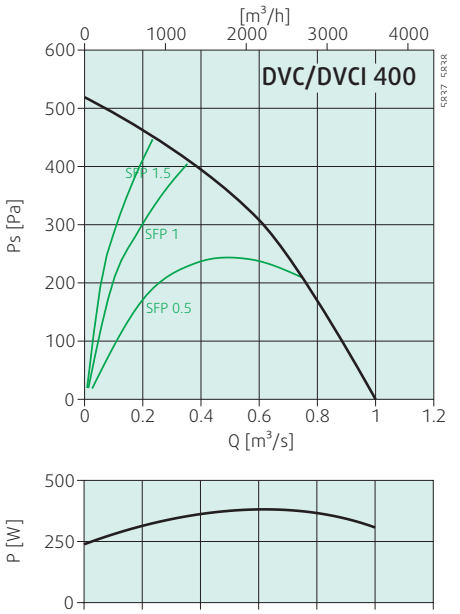
Performance



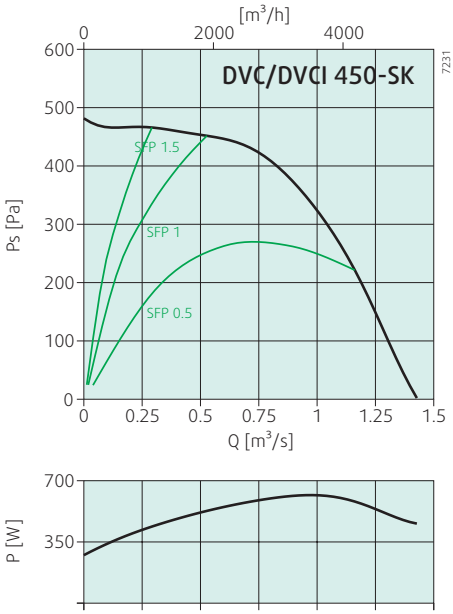
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	41	56	59	63	59	55	54	49
L_{wA} Outlet dB(A)	70	42	57	60	67	64	59	56	49
Measurement point: 1004 m³/h; 243 Pa									
DVCI									
L_{wA} Inlet dB(A)	67	38	53	59	63	60	55	51	49
L_{wA} Outlet dB(A)	64	37	53	56	60	59	52	43	41
Measurement point: 1145 m³/h; 225 Pa									



Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	37	65	62	65	63	62	60	56
L_{wA} Outlet dB(A)	73	38	60	66	68	67	65	62	56
Measurement point: 1926 m³/h; 378 Pa									
DVCI									
L_{wA} Inlet dB(A)	72	38	61	64	68	62	64	59	57
L_{wA} Outlet dB(A)	69	40	58	61	66	62	59	53	48
Measurement point: 2016 m³/h; 366 Pa									



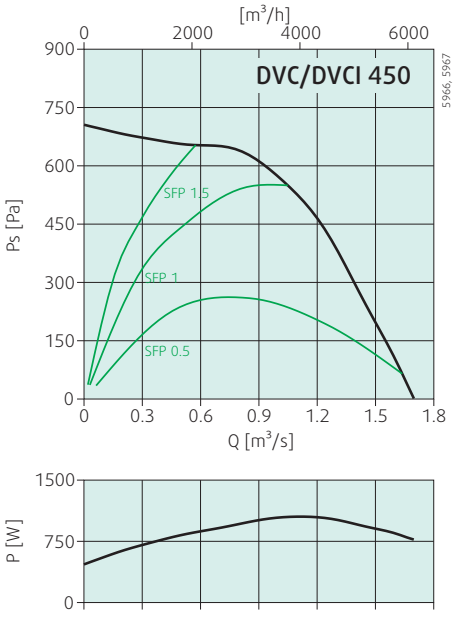
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	40	59	67	67	60	59	60	59
L_{wA} Outlet dB(A)	72	40	56	67	67	64	62	61	56
Measurement point: 2693 m³/h; 210 Pa									
DVCI									
L_{wA} Inlet dB(A)	71	43	62	64	66	61	60	57	55
L_{wA} Outlet dB(A)	66	47	59	60	61	59	55	51	47
Measurement point: 2691 m³/h; 210 Pa									



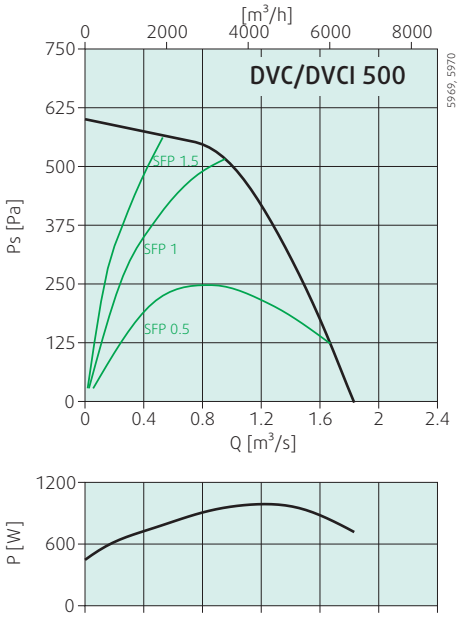
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	61	63	67	69	68	65	60	53
L_{wA} Outlet dB(A)	76	63	65	69	71	70	67	62	55
Measurement point: 2016 m³/h; 450 Pa									
DVCI									
L_{wA} Inlet dB(A)	74	46	62	67	70	62	63	66	58
L_{wA} Outlet dB(A)	63	38	54	58	58	56	51	49	36
Measurement point: 3150 m³/h; 381 Pa									



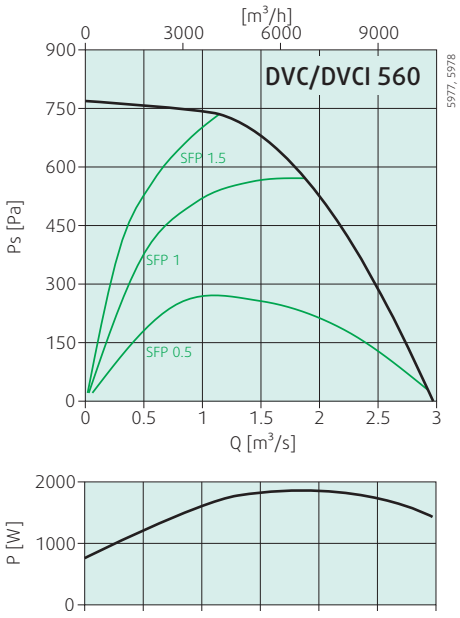
Performance



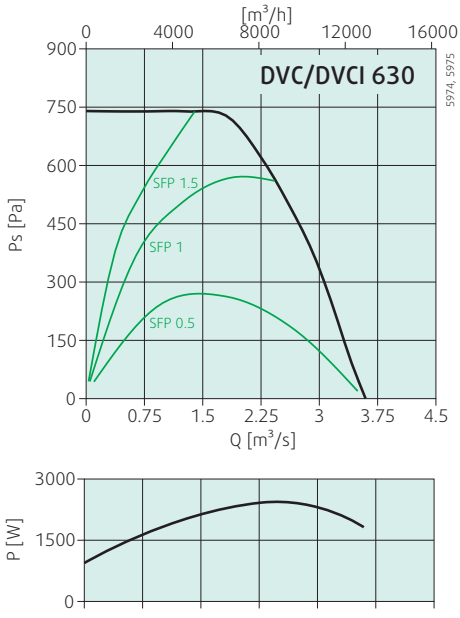
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	43	63	70	70	65	67	71	69
L_{wA} Outlet dB(A)	78	47	64	71	73	70	69	71	68
Measurement point: 3632 m³/h; 566 Pa									
DVCI									
L_{wA} Inlet dB(A)	78	48	70	75	71	67	67	64	64
L_{wA} Outlet dB(A)	73	52	64	67	67	67	63	59	57
Measurement point: 3647 m³/h; 562 Pa									



Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	40	64	75	69	66	65	64	61
L_{wA} Outlet dB(A)	78	42	63	72	73	70	68	67	61
Measurement point: 3560 m³/h; 503 Pa									
DVCI									
L_{wA} Inlet dB(A)	77	45	67	73	69	67	66	64	61
L_{wA} Outlet dB(A)	74	46	65	70	67	65	62	58	55
Measurement point: 3964 m³/h; 489 Pa									



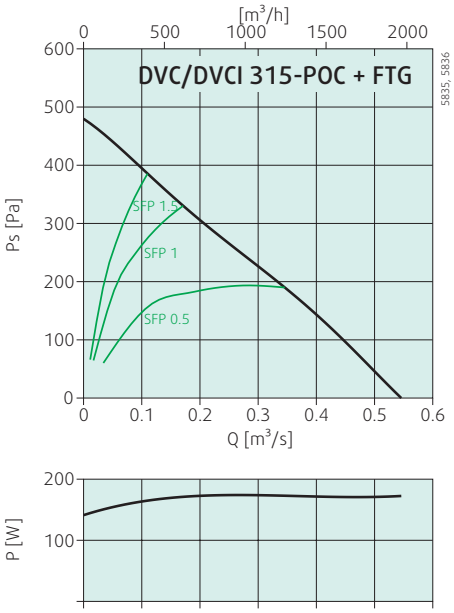
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	49	71	72	74	70	75	77	69
L_{wA} Outlet dB(A)	87	54	75	79	80	78	78	80	71
Measurement point: 5962 m³/h; 630 Pa									
DVCI									
L_{wA} Inlet dB(A)	84	55	75	77	73	74	77	78	74
L_{wA} Outlet dB(A)	79	56	69	71	71	71	71	71	64
Measurement point: 5965 m³/h; 658 Pa									



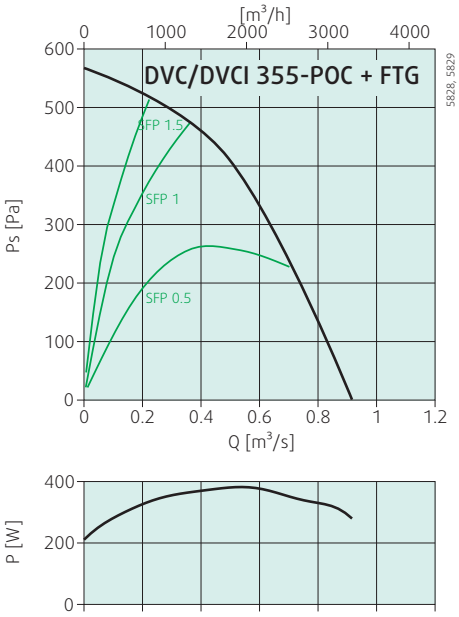
Type	Tot	Frequency bands [Hz]							
DVC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	47	74	78	75	70	71	74	67
L_{wA} Outlet dB(A)	87	52	77	78	81	78	79	80	70
Measurement point: 6599 m³/h; 713 Pa									
DVCI									
L_{wA} Inlet dB(A)	86	53	76	84	75	73	73	76	67
L_{wA} Outlet dB(A)	80	54	74	75	72	71	67	68	62
Measurement point: 8845 m³/h; 632 Pa									



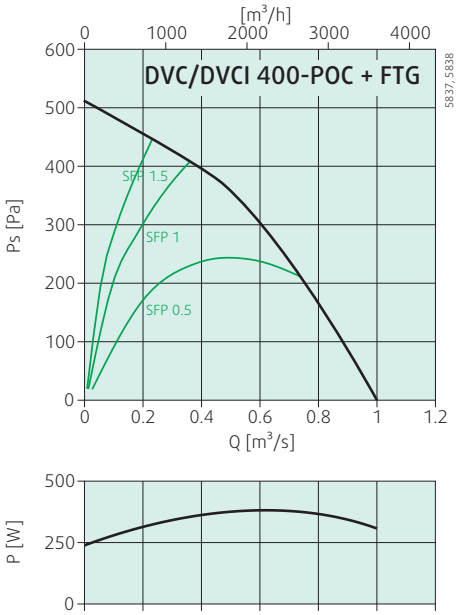
Performance



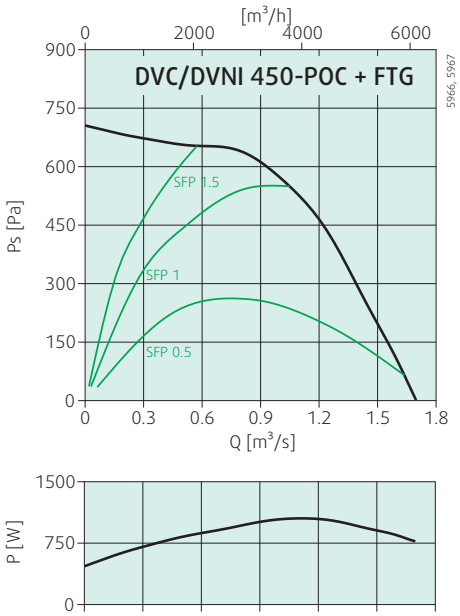
Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	41	56	59	63	59	55	54	49
L_{wA} Outlet dB(A)	70	42	57	60	67	64	59	56	49
Measurement point: 1004 m³/h; 243 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	67	38	53	59	63	60	55	51	49
L_{wA} Outlet dB(A)	64	37	53	56	60	59	52	43	41
Measurement point: 1146 m³/h; 225 Pa									



Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	37	65	62	65	63	62	60	56
L_{wA} Outlet dB(A)	73	38	60	66	68	67	65	62	56
Measurement point: 1926 m³/h; 378 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	72	38	61	64	68	62	64	59	57
L_{wA} Outlet dB(A)	69	40	58	61	66	62	59	53	48
Measurement point: 2015 m³/h; 366 Pa									



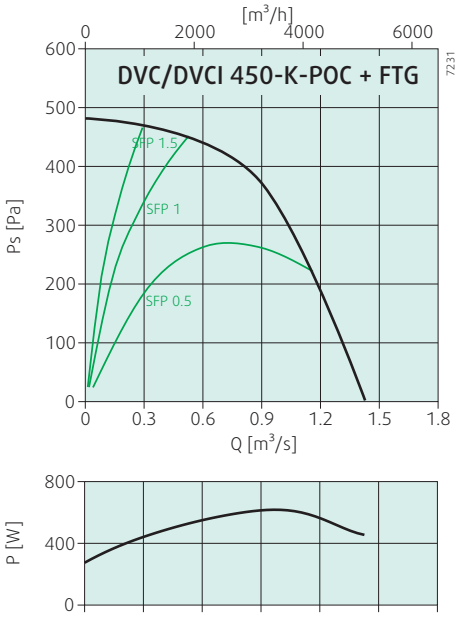
Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	40	59	67	67	60	59	60	59
L_{wA} Outlet dB(A)	72	40	56	67	67	64	62	61	56
Measurement point: 2693 m³/h; 210 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	71	43	62	64	66	61	60	57	55
L_{wA} Outlet dB(A)	66	47	59	60	61	59	55	51	47
Measurement point: 2057 m³/h; 318 Pa									



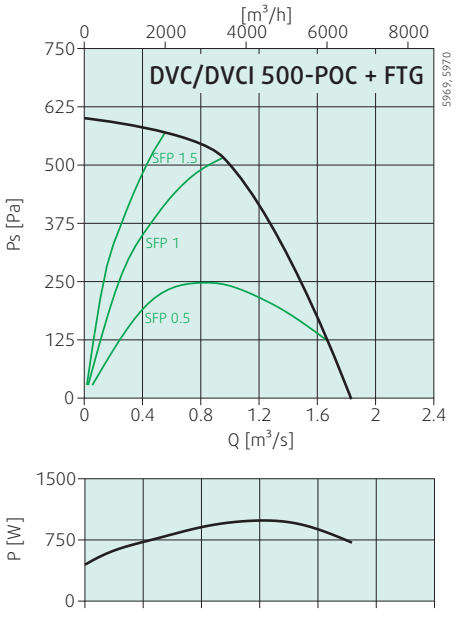
Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	43	63	70	70	65	67	71	69
L_{wA} Outlet dB(A)	78	47	64	71	73	70	69	71	68
Measurement point: 3632 m³/h; 566 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	74	46	62	67	70	62	63	66	58
L_{wA} Outlet dB(A)	63	38	54	58	58	56	51	49	36
Measurement point: 3151 m³/h; 381 Pa									



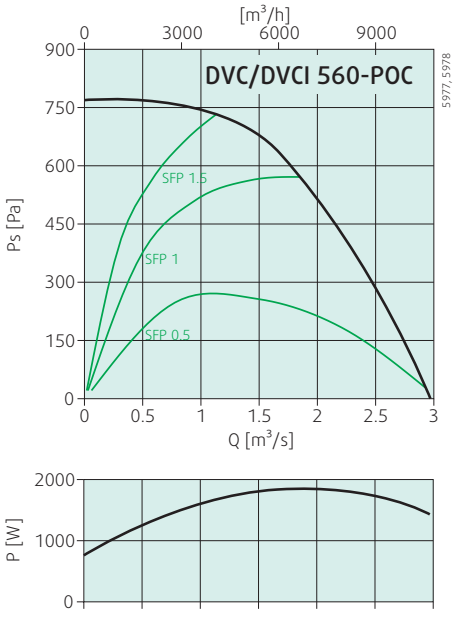
Performance



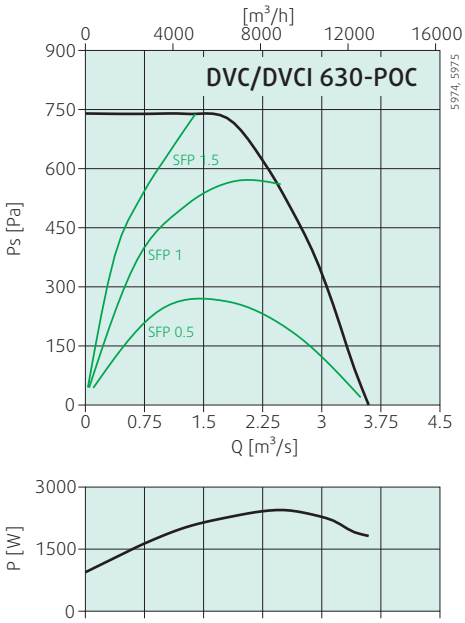
Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	43	63	70	70	65	67	71	69
L_{wA} Outlet dB(A)	78	47	64	71	73	70	69	71	68
Measurement point: 3632 m³/h; 566 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	78	48	70	75	71	67	67	64	64
L_{wA} Outlet dB(A)	73	52	64	67	67	67	63	59	57
Measurement point: 3647 m³/h; 562 Pa									



Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	40	64	75	69	66	65	64	61
L_{wA} Outlet dB(A)	78	42	63	72	73	70	68	67	61
Measurement point: 3560 m³/h; 503 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	77	45	67	73	69	67	66	64	61
L_{wA} Outlet dB(A)	74	46	65	70	67	65	62	58	55
Measurement point: 3963 m³/h; 489 Pa									



Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	48	70	71	73	69	75	77	69
L_{wA} Outlet dB(A)	86	53	74	78	80	77	78	80	71
Measurement point: 5962 m³/h; 630 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	84	56	75	77	73	74	76	78	75
L_{wA} Outlet dB(A)	78	56	69	71	70	71	71	71	65
Measurement point: 5966 m³/h; 658 Pa									



Type	Tot	Frequency bands [Hz]							
DVC-POC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	47	74	78	75	69	71	74	67
L_{wA} Outlet dB(A)	87	52	77	77	81	78	78	80	70
Measurement point: 6599 m³/h; 713 Pa									
DVCI-POC									
L_{wA} Inlet dB(A)	86	53	76	84	75	73	73	76	67
L_{wA} Outlet dB(A)	80	54	74	75	72	71	67	68	62
Measurement point: 7765 m³/h; 619 Pa									

DHS / DHS sileo

Roof fan



sileo

- High efficiency
- Low noise level, developed for noise-sensitive applications
- Speed controllable
- Integrated thermal contacts
- Horizontal discharge

Accessories



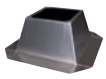
ASF
Inlet flange
Page 542



ASK
Connection box
Page 543



ASS
Flex. connection
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FDS / FDS-L
Flat roof socket
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FTG
Tilting device
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TG
Roof curb
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SSD
Socket silencer
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TDA DV
Adapter
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VKM
Back draft damper
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VKS
Back draft damper
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Electrical accessories



STDT
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S-DT2 SKT
Speed switch
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RTRD / RTRDU
Speed control
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RTRE
Speed control
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REU
Speed control
Page 484



REE
Speed control
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REV
Switching device
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FRQ
Frequency inverter
Page 490

Casing

Casing made from sea water resistant aluminium. Base frame manufactured from galvanised steel with integrated inlet cone. Integrated bird guard manufactured from powder coated, galvanised steel.

Motor

Voltage controllable external rotor motors, suspended vibration-free.

Impeller geometry

Radial impeller with backward curved blades manufactured from high-performance composite material, with highly-efficient, profiled 3-D blade geometry.

Output control

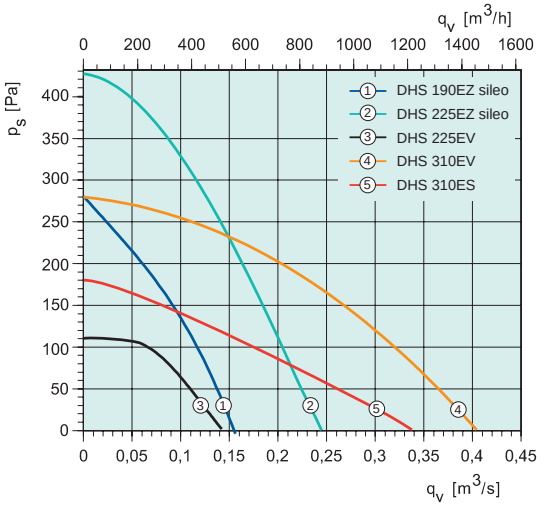
3 phase motors speed controllable via transformer, 2 speed via star-delta switching. Frequency converter controllable by using an all-pole sinusoidal filter. The single phase motors can be controlled by transformer / thyristor or can be operated in 2 speeds via a two speed switch.

Motor protection

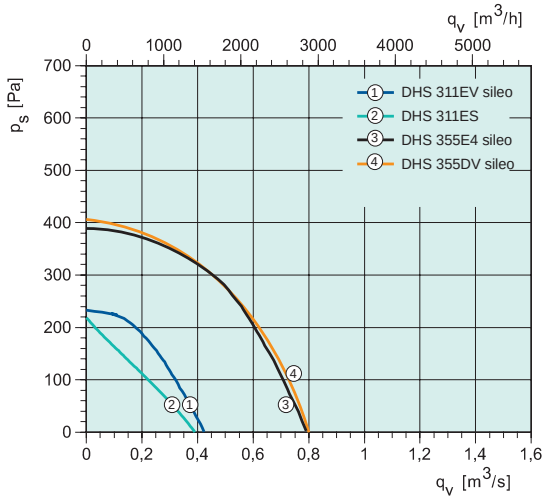
Integrated thermal contacts, up to size 311 with manual reset; from size 355 integrated thermal contacts with cables for connection to a motor protection switching device.

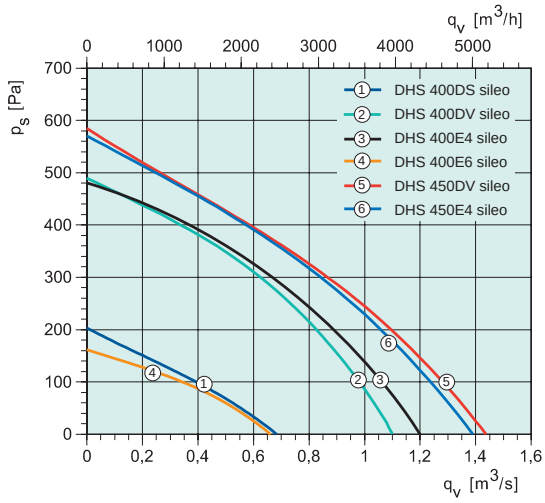
You can find more information in our online catalogue on www.systemair.com

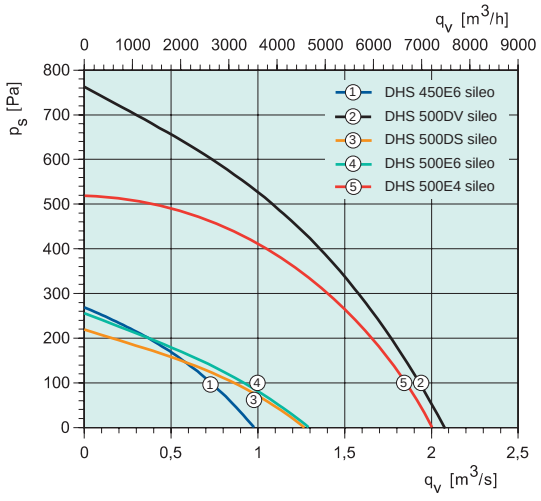
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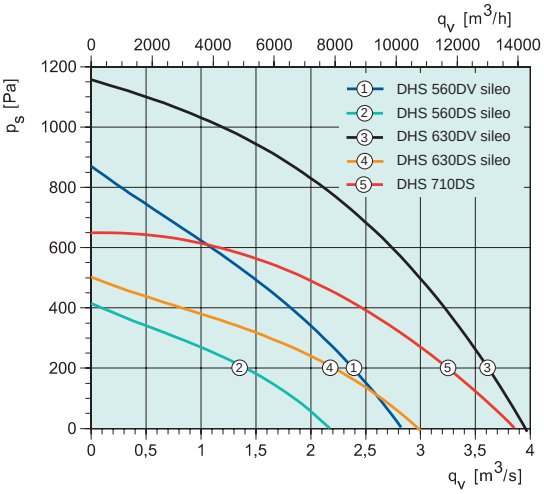


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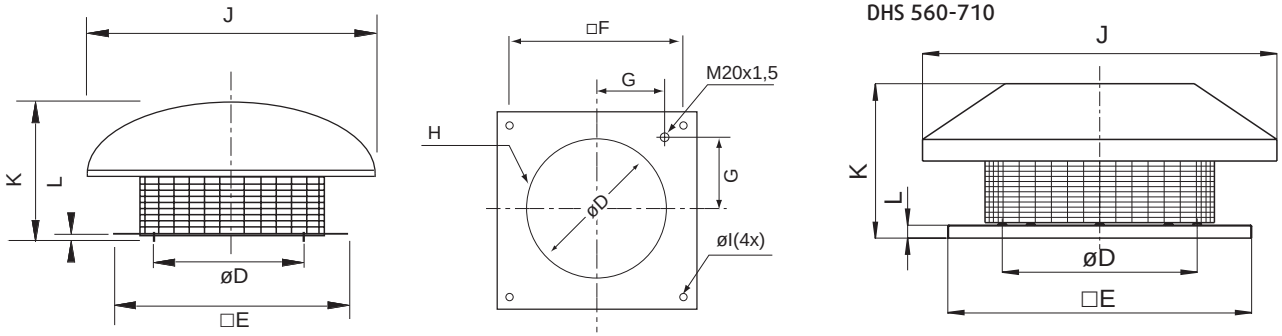








Dimensions



DHS / DHS sileo	øD	□E	□F	G	H	øI	J	K	L
190EZ, 225EZ/EV	213	335	245	105	6xM6	10	ø 417	150	30
310EV/ES, 311EV/ES	285	435	330	146	6xM6	10	ø 540	250	30
355E4/DV	438	595	450	200	6xM8	12	ø 720	330	30
400E4/E6/DV/DS	438	595	450	200	6xM8	12	ø 720	330	30
450E4/500DV/DS/E6	438	665	535	237	6xM8	12	ø 830	490	30
560DV/DS/630DV/DS	605	939	750	293	8xM8	14	□1100	535	30
710DS	674	1035	840	320	8xM8	14	□1282	580	40

Technical data

DHS		DHS 190EZ sileo	DHS 225EV	DHS 225EZ	DHS 310ES	DHS 310EV
Art. no.		*36290*	*5714*	*36369*	*5704*	*5703*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	60.5	48	114	70	114
Current	A	0.26	0.227	0.471	0.3	0.526
Max. airflow	m^3/h	551	511	850	1330	1462
Fan impeller speed	r.p.m.	2384	1422	2509	1000	1375
Max. temperature of transported air	°C	65	40	60	40	40
* when voltage-controlled	°C	65	40	60	40	40
Sound pressure level at 4 m (free field)	dB(A)	47	41	48	39	46
Sound pressure level at 10 m (free field)	dB(A)	39	33	40	31	38
Weight	kg	5.2	6.5	5.7	11.1	11.1
Insulation class		B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44
Capacitor	µF	2	2	3	1.5	4
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, two step (1)	electr.	-	-	-	-	-
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	REE 1	REE 1	REE 1

DHS		DHS 311ES	DHS 311EV sileo	DHS 355DV sileo	DHS 355E4 sileo	DHS 400DS sileo
Art. no.		*5715*	*36064*	*37725*	*37766*	*36121*
Voltage	V	230	230	400	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	3	1	3
Input power (P1)	W	100	134	280	285	129
Current	A	0.38	0.584	0.664	1.2	0.261
Max. airflow	m^3/h	1580	1739	2909	2891	2617
Fan impeller speed	r.p.m.	940	1328	1398	1370	781
Max. temperature of transported air	°C	40	60	60	60	60
* when voltage-controlled	°C	40	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	40	46	45	47	33
Sound pressure level at 10 m (free field)	dB(A)	32	38	37	39	25
Weight	kg	11.3	11.9	20.5	22.5	22
Insulation class		B	B	F	F	F
Enclosure class, motor	IP	44	44	44	44	54
Capacitor	µF	1.5	4		6	
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 2	RTRE 1.5	RTRD 2
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	RTRDU 2	REU 1.5	RTRDU 2*
Speed control, two step (1)	electr.	-	-	S-DT2SKT	-	S-DT2SKT
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	-	REE 2	-

DHS		DHS 400DV sileo	DHS 400E4 sileo	DHS 400E6 sileo	DHS 450DV sileo	DHS 450E4 sileo
Art. no.		*36122*	*36123*	*37792*	*36125*	*37733*
Voltage	V	400	230	230	400	230
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	1	3	1
Input power (P1)	W	506	475	111	696	740
Current	A	1.22	2.35	0.48	1.38	3.11
Max. airflow	m^3/h	4334	4273	2419	5821	5832
Fan impeller speed	r.p.m.	1406	1336	871	1362	1332
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	55	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	46	49	34	50	48
Sound pressure level at 10 m (free field)	dB(A)	48	41	26	42	40
Weight	kg	24.2	24.4	21	31.7	32
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	IP54	54	54
Capacitor	µF		9	4		14
Speed control, 5-step (1)	Transf.	RTRD 2	RTRE 3	RTRE 1.5	RTRE 2	RTRE 3
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	REU 3*	REU 1.5*	RTRDU 2	REU 3*
Speed control, two step (1)	electr.	S-DT2SKT	-	-	S-DT2SKT	-
Speed control, stepless (1)	Thyrist.	-	REE 4	REE 1	-	REE 4

DHS		DHS 450E6 sileo	DHS 500DS sileo	DHS 500DV sileo	DHS 500E4 sileo	DHS 500E6 sileo
Art. no.		*37734*	*37770*	*37776*	*37892*	*37773*
Voltage	V	230	400	400	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	3	3	1	1
Input power (P1)	W	233	315	1614	1113	408
Current	A	0.99	0.677	2.86	5.22	2.26
Max. airflow	m^3/h	3949	4889	8892	7283	5072
Fan impeller speed	r.p.m.	894	888	1362	1392	948
Max. temperature of transported air	°C	60	60	55	60	60
* when voltage-controlled	°C	60	60	55	60	60
Sound pressure level at 4 m (free field)	dB(A)	41	40	52	58	40
Sound pressure level at 10 m (free field)	dB(A)	33	32	44	49	32
Weight	kg	28	30	30	37	30
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	6	-	-	30	12
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRD 2	RTRD 4	RTRE 7	RTRE 3
Speed control, 5-step high/low (1)	Transf.	REU 1.5*	RTRDU 2*	RTRDU 4*	REU 7*	REU 3*
Speed control, two step (1)	electr.	-	S-DT2SKT	S-DT2SKT	-	-
Speed control, stepless (1)	Thyrist.	REE 2	-	-	FRQ(S)-E-6A	REE 4

DHS		DHS 560DS sileo	DHS 560DV sileo	DHS 630DS sileo	DHS 630DV sileo	DHS 710DS	DHS 710DS
Art. no.		*36130*	*37779*	*37782*	*37785*	*36204*	*48591*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	697	1518	867	2572	2096	4125
Current	A	1.51	3.24	2.2	4.51	4.04	6.61
Max. airflow	m^3/h	8039	11754	9900	14317	14764	18781
Fan impeller speed	r.p.m.	885	1418	918	1336	903	1272
Max. temperature of transported air	°C	60	60	60	55	40	55
* when voltage-controlled	°C	60	60	60	55	-	55
Sound pressure level at 4 m (free field)	dB(A)	45	53	46	64	60	68
Sound pressure level at 10 m (free field)	dB(A)	37	45	38	56	52	60
Weight	kg	57.5	63	65	65	100	98
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	-	-	-	-	-	-
Speed control, 5-step (1)	Transf.	RTRD 2	RTRD 4	RTRD 3	RTRD 14	RTRD 5.2	RTRD 7
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	RTRDU 4*	RTRDU 4*	-	RTRDU 7*	RTRDU 7*
Speed control, two step (1)	electr.	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT
Speed control, stepless (1)	Thyrist.	-	-	-	-	-	-

Performance

All characteristic curves of DHS range you can find on page 234.

* + Motor protection S-ET 10/STDT 16

(1) Systemair recommendation. More alternatives can be found on page 478.

DVS / DVS sileo
DVSI / DVSI sileo

Roof fan



sileo

- High efficiency
- Low noise level, developed for noise-sensitive applications
- Speed controllable
- Integrated thermal contacts
- Vertical discharge

Accessories



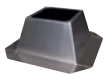
ASF
Inlet flange
Page 542



ASK
Connection box
Page 543



ASS
Flex. connection
Page 542



FDS / FDS-L
Flat roof socket
Page 546



FTG
Tilting device
Page 543



TG
Roof curb
Page 545



SSD
Socket silencer
Page 547



TDA DV
Adapter
Page 543



VKM
Back draft damper
Page 553



VKS
Back draft damper
Page 553

Electrical accessories



STDT
Motor protection
Page 501



S-DT2 SKT
Speed switch
Page 480



RTRD / RTRDU
Speed control
Page 485



RTRE
Speed control
Page 484



REU
Speed control
Page 484



REE
Speed control
Page 487



REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490

Casing
Casing made from sea water resistant aluminium. Base frame manufactured from galvanised steel with integrated inlet cone. Iintegrated bird guard manufactured from powder coated, galvanised steel. DVSI / DVSI sileo with 50 mm mineral wool acoustic and thermal insulation.

Motor
Voltage controllable external rotor motors, suspended vibration-free.

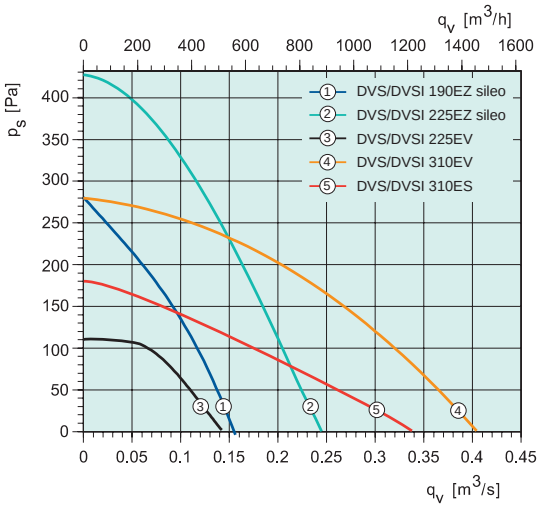
Impeller geometry
Radial impeller with backward curved blades manufactured from high-performance composite material, with highly-efficient, profiled 3-D blade geometry, from size 710 in aluminium.

Output control
3-phase motors speed controllable via transformer, 2 via star-delta switching. Frequency converter controllable by using an all-pole sinusoidal filter. The single phase motors can be controlled via a transformer or thyristor.

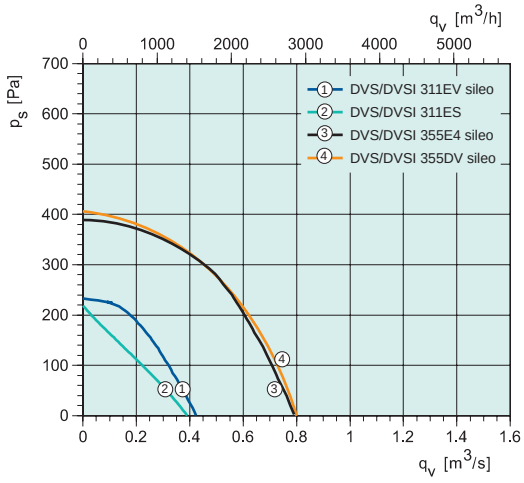
Motor protection
Integrated thermal contacts, up to size 311 with manual reset; from size 355 integrated thermal contacts with cables for connection to a motor protection switching device.

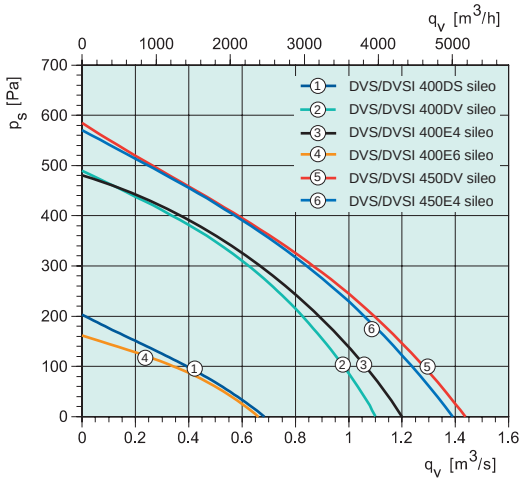
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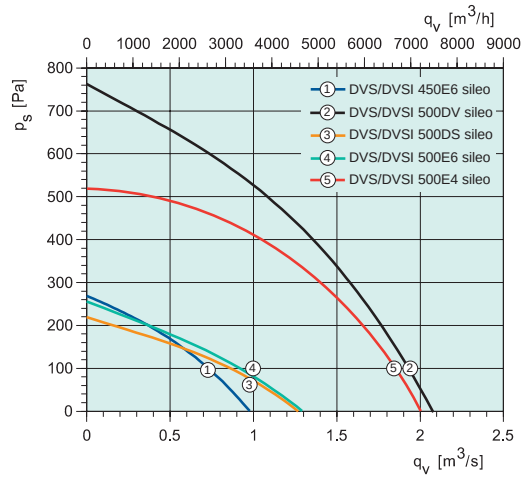
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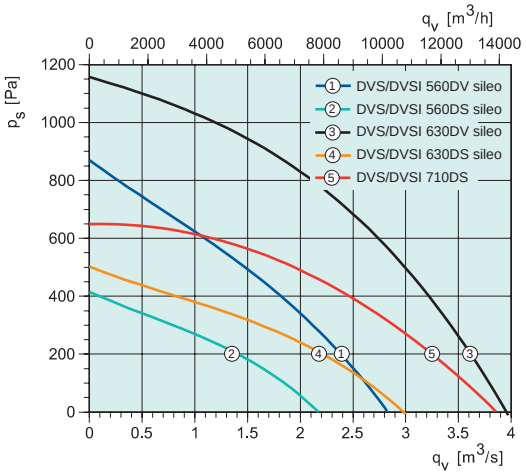


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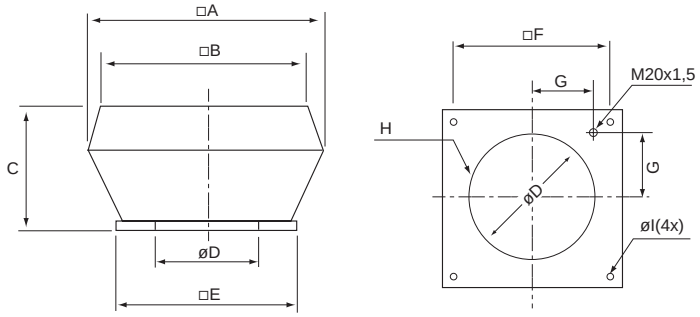








Dimensions



DVS / DVS sileo	□A	□B	C	øD	□E	□F	G	H	øI
190-225	370	295	170	213	335	245	105	6xM6	10(4x)
310-311	560	470	330	285	435	330	146	6xM6	10(4x)
355-400	720	618	390	438	595	450	200	6xM8	12(4x)
450-500	900	730	465	438	665	535	237	6xM8	12(4x)
560-630	1150	960	560	605	939	750	293	8xM8	14(4x)
710	1350	1185	660	674	1035	840	320	8xM8	14(4x)

DVSI / DVSI sileo	□A	□B	C	øD	□E	□F	G	H	øI
190-225	497	295	179	213	335	245	105	6xM6	10(4x)
310-311	690	470	369	285	435	330	146	6xM6	10(4x)
355-400	874	618	439	438	595	450	200	6xM8	12(4x)
450-500	968	748	479	438	665	535	237	6xM8	12(4x)
560-630	1315	960	600	605	939	750	293	8xM8	14(4x)
710	1483	1185	729	674	1035	840	320	8xM8	14(4x)

Technical data

DVS		DVS 190EZ sileo	DVS 225EZ sileo	DVS 225EV	DVS 310EV	DVS 310ES
Art. no.		*36289*	*36370*	*5732*	*5733*	*5734*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	52.4	110	48	114	70.9
Current	A	0.231	0.466	0.227	0.526	0.37
Max. airflow	m^3/h	544	835	511	1462	1328
Fan impeller speed	r.p.m.	2337	2560	1422	1375	1000
Max. temperature of transported air	°C	65	60	40	40	40
* when voltage-controlled	°C	65	60	40	40	40
Sound pressure level at 4 m (free field)	dB(A)	47	42	41	44	37
Sound pressure level at 10 m (free field)	dB(A)	39	34	33	36	29
Weight	kg	5	5.2	5.5	12.3	11.9
Insulation class		B	F	B	B	B
Enclosure class, motor	IP	44	44	44	44	44
Capacitor	µF	1.5	3	2	4	1.5
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, two step (1)	electr.	-	-	-	-	-
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	REE 1	REE 1	REE 1

DVS		DVS 311EV sileo	DVS 311ES	DVS 355E4 sileo	DVS 355DV sileo	DVS 400DS sileo
Art. no.		*36068*	*5736*	*37767*	*37726*	*36099*
Voltage	V	230	230	230	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	3	3
Input power (P1)	W	132	86.5	280	279	123
Current	A	0.574	0.377	1.18	0.654	0.255
Max. airflow	m^3/h	1670	1609	2851	2790	2488
Fan impeller speed	r.p.m.	1342	974	1369	1404	779
Max. temperature of transported air	°C	60	40	60	60	60
* when voltage-controlled	°C	60	40	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	44	38	45	45	33
Sound pressure level at 10 m (free field)	dB(A)	36	30	37	37	25
Weight	kg	12.8	12.2	23	23.1	24.4
Insulation class		B	B	F	F	F
Enclosure class, motor	IP	44	44	44	44	54
Capacitor	µF	4	2	6		
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 2	RTRE 1.5	RTRD 2
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	RTRDU 2	REU 1.5	RTRDU 2*
Speed control, two step (1)	electr.	-	-	S-DT2SKT	-	S-DT2SKT
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	-	REE 2	-

DVS		DVS 400DV sileo	DVS 400E4 sileo	DVS 400E6 sileo	DVS 450DV sileo	DVS 450E4 sileo
Art. no.		*36109*	*36100*	*37793*	*36102*	*37735*
Voltage	V	400	230	230	400	230
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	1	3	1
Input power (P1)	W	491	466	110	683	732
Current	A	1.21	2.32	0.47	1.37	3.06
Max. airflow	m^3/h	4165	3992	2289	5418	5458
Fan impeller speed	r.p.m.	1408	1344	876	1363	1338
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	46	46	34	49	47
Sound pressure level at 10 m (free field)	dB(A)	38	38	26	41	39
Weight	kg	26.9	27	23.5	36.1	40
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	IP54	54	54
Capacitor	µF		9	4		14
Speed control, 5-step (1)	Transf.	RTRD 2	RTRE 3	RTRE 1.5	RTRE 2	RTRE 3
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	REU 3*	REU 1.5*	RTRDU 2	REU 3*
Speed control, two step (1)	electr.	S-DT2SKT	-	-	S-DT2SKT	-
Speed control, stepless (1)	Thyrist.	-	REE 4	REE 1	-	REE 4

DVS		DVS 450E6 sileo	DVS 500DS sileo	DVS 500DV sileo	DVS 500E4 sileo	DVS 500E6 sileo
Art. no.		*37736*	*37771*	*37777*	*37893*	*37774*
Voltage	V	230	400	400	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	3	3	1	1
Input power (P1)	W	231	317	1596	1133	414
Current	A	0.99	0.681	2.85	5.2	2.29
Max. airflow	m^3/h	3690	4424	8050	6653	4684
Fan impeller speed	r.p.m.	895	888	1368	1392	942
Max. temperature of transported air	°C	60	60	55	60	60
* when voltage-controlled	°C	60	60	55	60	60
Sound pressure level at 4 m (free field)	dB(A)	38	40	51	51	38
Sound pressure level at 10 m (free field)	dB(A)	30	32	43	43	30
Weight	kg	39	39	48	49	40
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	6	-	-	30	12
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRD 2	RTRD 4	RTRE 7	RTRE 3
Speed control, 5-step high/low (1)	Transf.	REU 1.5*	RTRDU 2*	RTRDU 4*	REU 7*	REU 3*
Speed control, two step (1)	electr.	-	S-DT2SKT	S-DT2SKT	-	-
Speed control, stepless (1)	Thyrist.	REE 2	-	-	FRQ(S)-E-6A	REE 4

DVS		DVS 560DS sileo	DVS 560DV sileo	DVS 630DS sileo	DVS 630DV sileo	DVS 710DS	DVS 710DV
Art. no.		*36107*	*37780*	*37783*	*37786*	*36202*	*48606*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	692	2028	837	2507	2040	3998
Current	A	1.54	3.83	2.2	4.43	4.04	6.53
Max. airflow	m^3/h	7571	11214	9201	13356	14526	17896
Fan impeller speed	r.p.m.	884	1386	920	1333	909	1278
Max. temperature of transported air	°C	60	60	60	55	40	55
* when voltage-controlled	°C	60	60	60	55	-	55
Sound pressure level at 4 m (free field)	dB(A)	43	51	44	62	58	69
Sound pressure level at 10 m (free field)	dB(A)	35	43	36	54	50	61
Weight	kg	64.6	69	70	73.5	112	112
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	-	-	-	-	-	-
Speed control, 5-step (1)	Transf.	RTRD 2	RTRD 4	RTRD 3	RTRD 14	RTRD 5.2	RTRD 7
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	RTRDU 4*	RTRDU 4*	-	RTRDU 7*	RTRDU 7*
Speed control, two step (1)	electr.	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT
Speed control, stepless (1)	Thyrist.	-	-	-	-	-	-

* + Motor protection S-ET 10/STDT 16

(1) Systemair recommendation. More alternatives can be found on page 478.

Technical data

DVSI		DVSI 190EZ sileo	DVSI 225EV	DVSI 225EZ sileo	DVSI 310ES	DVSI 310EV
Art. no.		*36291*	*30274*	*36371*	*2350*	*2347*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	52.4	48	110	70.9	114
Current	A	0.231	0.227	0.466	0.37	0.526
Max. airflow	m^3/h	544	511	835	1328	1462
Fan impeller speed	r.p.m.	2337	1422	2560	1000	1375
Max. temperature of transported air	°C	65	40	60	40	40
*when voltage-controlled	°C	65	40	60	40	40
Sound pressure level at 4 m (free field)	dB(A)	41	35	41	28	35
Sound pressure level at 10 m (free field)	dB(A)	33	29	33	20	27
Weight	kg	6.9	8	7.3	18.5	16.8
Insulation class		B	B	F	B	B
Enclosure class, motor	IP	44	44	44	44	44
Capacitor	µF	1.5	2	3	1.5	4
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5	RTRE 1.5
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	REU 1.5	REU 1.5	REU 1.5
Speed control, two step (1)	electr.	-	-	-	-	-
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	REE 1	REE 1	REE 1

DVSI		DVSI 311ES	DVSI 311EV sileo	DVSI 355DV sileo	DVSI 355E4 sileo	DVSI 400DS sileo
Art. no.		*2381*	*36079*	*37727*	*37768*	*36110*
Voltage	V	230	230	400	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	3	1	3
Input power (P1)	W	86.5	132	279	280	123
Current	A	0.377	0.574	0.654	1.18	0.255
Max. airflow	m^3/h	1609	1670	2790	2851	2488
Fan impeller speed	r.p.m.	974	1342	1404	1369	779
Max. temperature of transported air	°C	40	60	60	60	60
* when voltage-controlled	°C	40	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	28	35	36	36	28
Sound pressure level at 10 m (free field)	dB(A)	20	27	29	28	20
Weight	kg	16.6	17.1	31.5	26	41
Insulation class		B	B	F	F	F
Enclosure class, motor	IP	44	44	44	44	54
Capacitor	µF	2	4		6	
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRE 1.5	RTRE 2	RTRE 1.5	RTRD 2
Speed control, 5-step high/low (1)	Transf.	REU 1.5	REU 1.5	RTRDU 2	REU 1.5	RTRDU 2*
Speed control, two step (1)	electr.	-	-	S-DT2SKT	-	S-DT2SKT
Speed control, stepless (1)	Thyrist.	REE 1	REE 1	-	REE 2	-

DVSI		DVSI 400DV sileo	DVSI 400E4 sileo	DVSI 400E6 sileo	DVSI 450DV sileo	DVSI 450E4 sileo
Art. no.		*36111*	*36112*	*37794*	*36114*	*37737*
Voltage	V	400	230	230	400	230
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	1	3	1
Input power (P1)	W	491	466	110	683	732
Current	A	1.21	2.32	0.47	1.37	3.06
Max. airflow	m^3/h	4165	3992	2289	5418	5458
Fan impeller speed	r.p.m.	1408	1344	876	1363	1338
Max. temperature of transported air	°C	60	60	60	60	60
* when voltage-controlled	°C	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	39	39	28	41	39
Sound pressure level at 10 m (free field)	dB(A)	31	31	20	33	31
Weight	kg	35	35	42	41	56
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	-	9	4	-	14
Speed control, 5-step (1)	Transf.	RTRD 2	RTRE 3	RTRE 1.5	RTRE 2	RTRE 3
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	REU 3*	REU 1.5*	RTRDU 2	REU 3*
Speed control, two step (1)	electr.	S-DT2SKT	-	-	S-DT2SKT	-
Speed control, stepless (1)	Thyrist.	-	REE 4	REE 1	-	REE 4

DVSI		DVSI 450E6 sileo	DVSI 500DS sileo	DVSI 500DV sileo	DVSI 500E4 sileo	DVSI 500E6 sileo
Art. no.		*37738*	*37772*	*37778*	*37894*	*37775*
Voltage	V	230	400	400	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	3	3	1	1
Input power (P1)	W	231	317	1596	1133	414
Current	A	0.99	0.681	2.85	5.2	2.3
Max. airflow	m^3/h	3690	4424	8050	6653	4684
Fan impeller speed	r.p.m.	895	888	1368	1392	942
Max. temperature of transported air	°C	60	60	55	60	60
* when voltage-controlled	°C	60	60	55	60	60
Sound pressure level at 4 m (free field)	dB(A)	31	34	44	47	33
Sound pressure level at 10 m (free field)	dB(A)	23	26	36	39	25
Weight	kg	53	56.5	62.5	56.5	56.5
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	6	-	-	30	12
Speed control, 5-step (1)	Transf.	RTRE 1.5	RTRD 2	RTRD 4	RTRE 7	RTRE 3
Speed control, 5-step high/low (1)	Transf.	REU 1.5*	RTRDU 2*	RTRDU 4*	REU 7*	REU 3*
Speed control, two step (1)	electr.	-	S-DT2SKT	S-DT2SKT	-	-
Speed control, stepless (1)	Thyrist.	REE 2	-	-	FRQ(S)-E-6A	REE 4

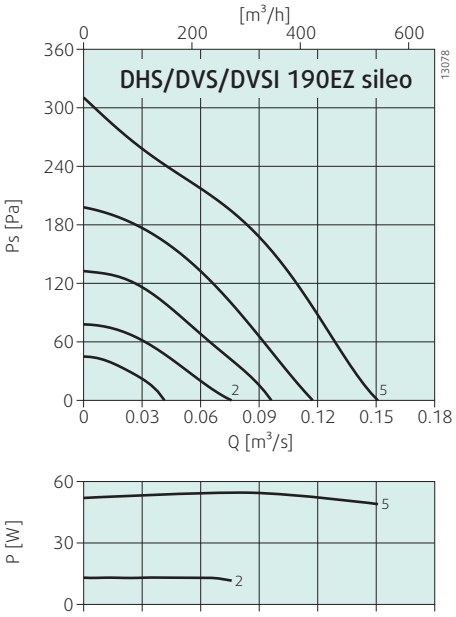
DVSI		DVSI 560DS sileo	DVSI 560DV sileo	DVSI 630DS sileo	DVSI 630DV sileo	DVSI 710DS	DVSI 710DV
Art. no.		*36119*	*37781*	*37784*	*37787*	*36203*	*48909*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	692	2028	837	2507	2040	3948
Current	A	1.54	3.83	2.2	4.43	4.04	6.34
Max. airflow	m^3/h	7571	11214	9250	13500	14526	18072
Fan impeller speed	r.p.m.	884	1386	920	1333	909	1272
Max. temperature of transported air	°C	60	60	60	55	40	55
* when voltage-controlled	°C	60	60	60	55	-	55
Sound pressure level at 4 m (free field)	dB(A)	34	42	35	51	49	60
Sound pressure level at 10 m (free field)	dB(A)	26	34	27	43	41	52
Weight	kg	70	78	93	110	122	121
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	-	-	-	-	-	-
Speed control, 5-step (1)	Transf.	RTRD 2	RTRD 4	RTRD 3	RTRD 14	RTRD 5.2	RTRD 7
Speed control, 5-step high/low (1)	Transf.	RTRDU 2*	RTRDU 4*	RTRDU 4*	-	RTRDU 7*	RTRDU 7*
Speed control, two step (1)	electr.	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT	S-DT2SKT
Speed control, stepless (1)	Thyrist.	-	-	-	-	-	-

* + Motor protection S-ET 10/STDT 16

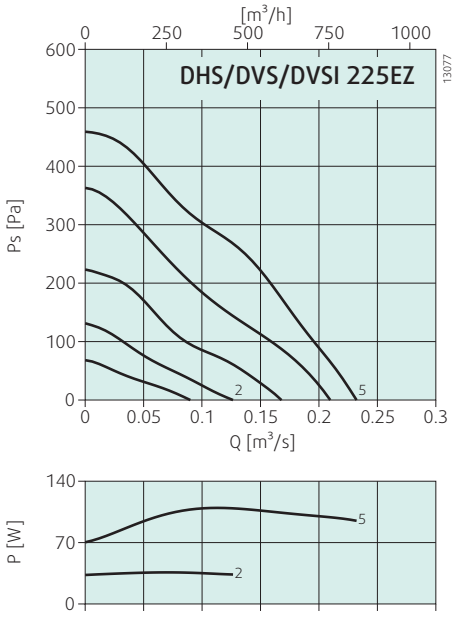
(1) Systemair recommendation. More alternatives can be found on page 478.



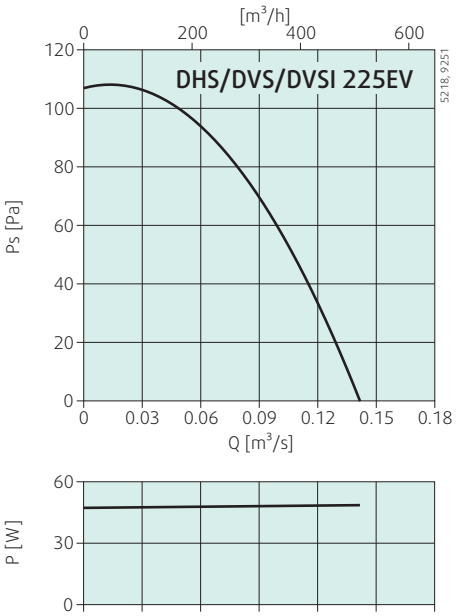
Performance



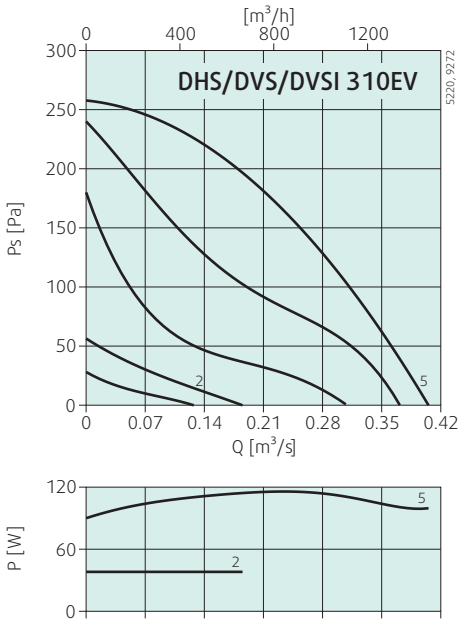
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	39	57	61	63	62	59	54	47
L_{wA} Surrounding dB(A)	69	40	58	62	64	63	60	55	48
DVSI									
L_{wA} Surrounding dB(A)	64	51	53	57	59	58	55	50	43
Measurement point: 324 m³/h; 167 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	71	42	60	64	66	65	62	57	50
DVSI									
L_{wA} Surrounding dB(A)	59	39	54	55	54	45	41	36	31
Measurement point: 68 m³/h; 258 Pa									

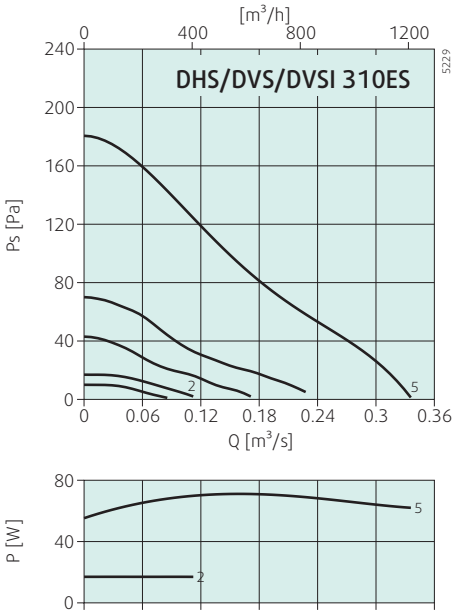


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	34	52	56	58	57	54	49	42
L_{wA} Surrounding dB(A)	64	35	53	57	59	58	55	50	43
DVSI									
L_{wA} Surrounding dB(A)	58	51	51	53	51	45	38	36	30
Measurement point: 252 m³/h 87 Pa									

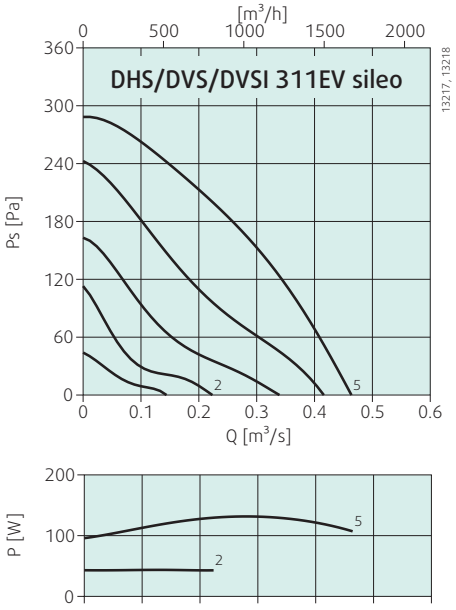


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	52	54	58	60	59	56	51	44
L_{wA} Surrounding dB(A)	67	54	56	60	62	61	58	53	46
DVSI									
L_{wA} Surrounding dB(A)	58	51	51	53	51	45	38	36	30
Measurement point: 792 m³/h; 172 Pa									

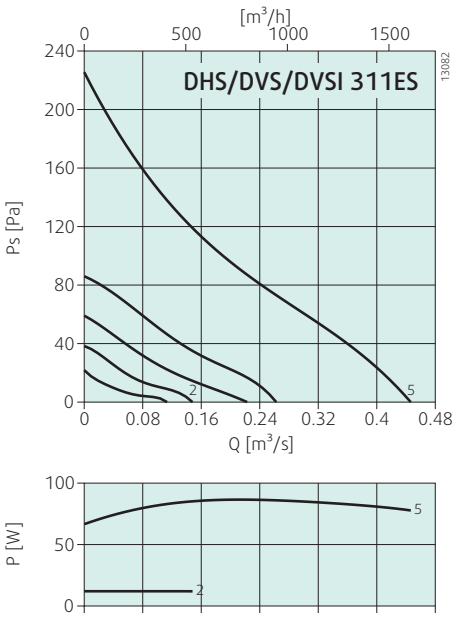
Performance



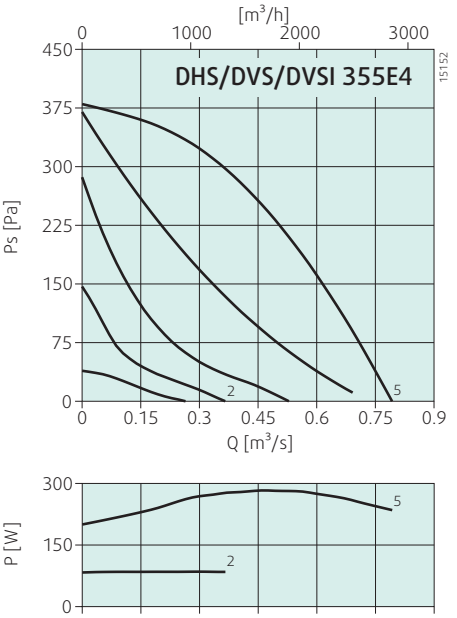
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	58	45	47	53	53	53	49	44	36
L_{wA} Surrounding dB(A)	60	47	49	54	55	55	51	46	38
DVSI									
L_{wA} Surrounding dB(A)	51	44	44	47	44	39	31	29	22
Measurement point: 540 m³/h; 98,2 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	52	54	58	60	59	56	51	44
L_{wA} Surrounding dB(A)	67	54	56	60	62	61	58	53	46
DVSI									
L_{wA} Surrounding dB(A)	58	51	51	53	51	45	38	36	30
Measurement point: 1044 m³/h; 168 Pa									



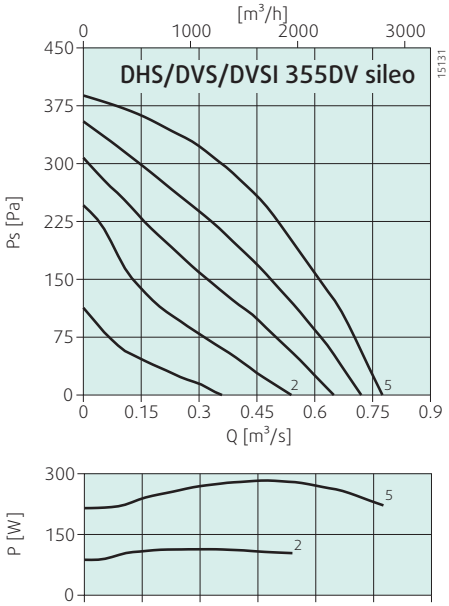
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	59	46	48	53	54	54	50	45	37
L_{wA} Surrounding dB(A)	61	48	50	55	56	56	52	47	39
DVSI									
L_{wA} Surrounding dB(A)	52	45	45	48	45	40	32	30	23
Measurement point: 864 m³/h; 78,9 Pa									



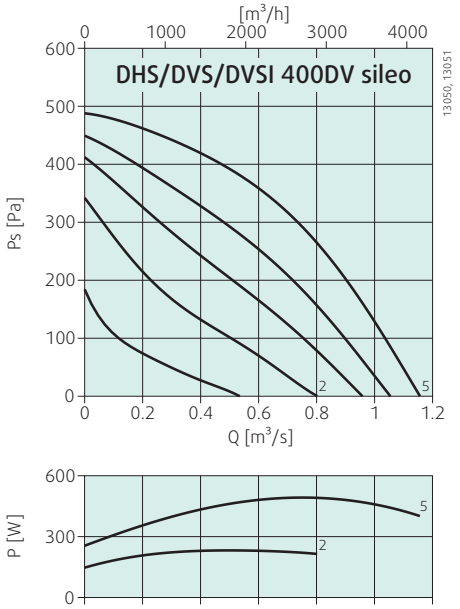
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Surrounding dB(A)	70	57	59	63	65	64	61	56	49
DVSI									
L_{wA} Surrounding dB(A)	61	54	54	55	54	48	41	39	33
Measurement point: 1620 m³/h; 240 Pa									



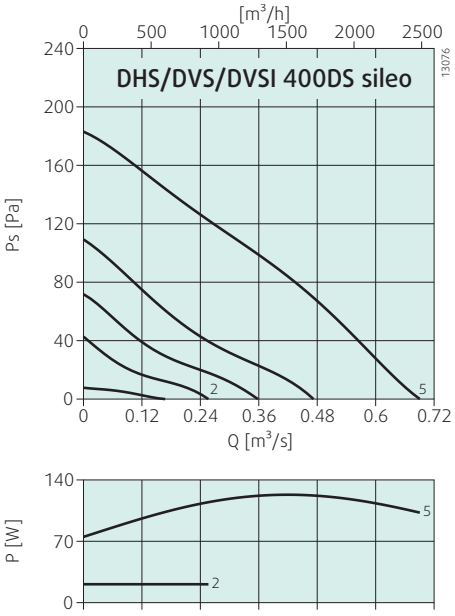
Performance



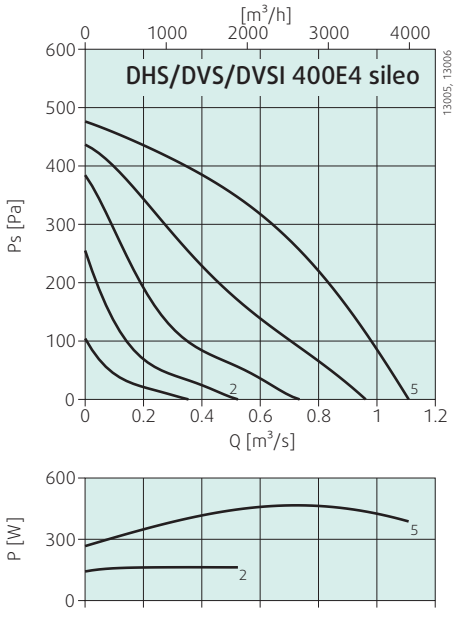
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	61	63	62	59	54	47
L_{wA} Surrounding dB(A)	70	57	59	63	65	64	61	56	49
DVSI									
L_{wA} Surrounding dB(A)	61	54	54	56	54	48	41	39	33
Measurement point: 1620 m³/h; 240 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	37	59	63	61	57	57	51	48
L_{wA} Surrounding dB(A)	69	40	53	60	66	62	59	52	50
DVSI									
L_{wA} Surrounding dB(A)	64	37	57	59	59	55	49	43	42
Measurement point: 2376 m³/h; 348 Pa									

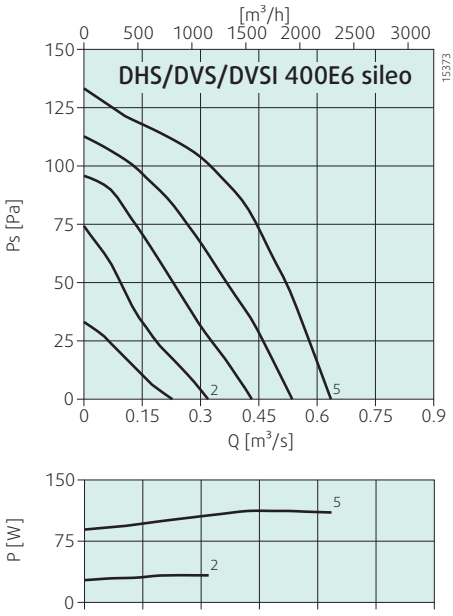


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	55	48	48	49	47	43	42	43	28
L_{wA} Surrounding dB(A)	56	40	46	50	51	49	42	41	28
DVSI									
L_{wA} Surrounding dB(A)	46	25	33	43	39	38	33	33	18
Measurement point: 1296 m³/h; 103 Pa									

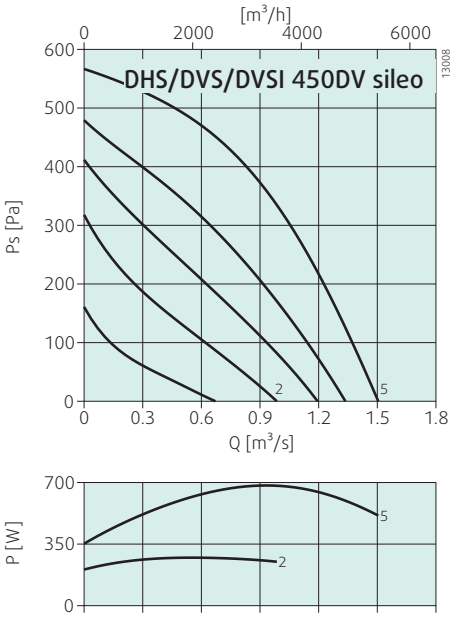


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	40	59	67	62	58	55	51	48
L_{wA} Surrounding dB(A)	71	44	64	63	67	65	58	53	49
DVSI									
L_{wA} Surrounding dB(A)	64	38	58	60	59	55	47	43	43
Measurement point: 2340 m³/h; 309 Pa									

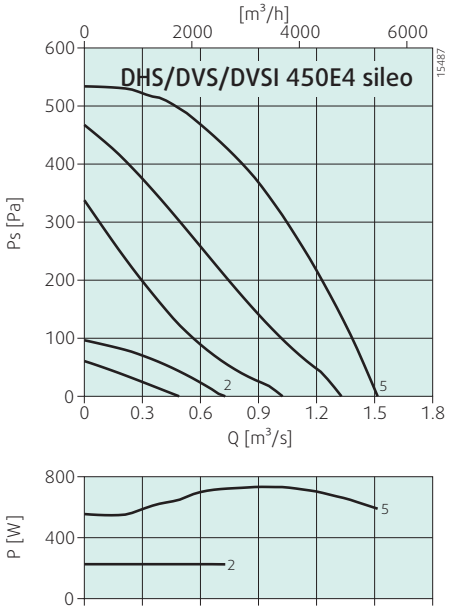
Performance



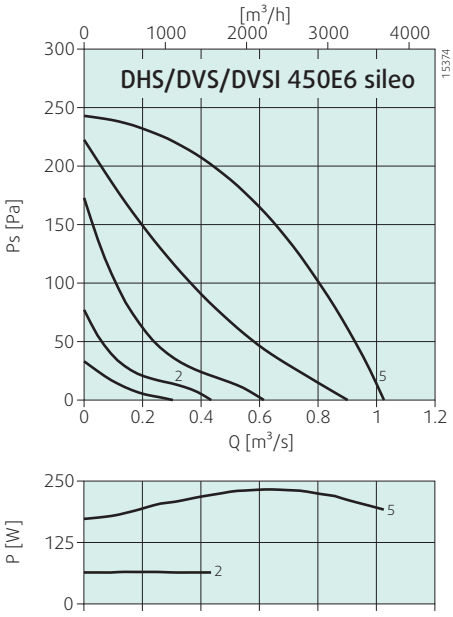
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	57	39	49	49	54	46	42	48	31
L_{wA} Surrounding dB(A)	60	43	50	51	55	52	50	47	35
DVSI									
L_{wA} Surrounding dB(A)	57	36	51	51	54	44	39	43	26
Measurement point: 1454 m³/h; 137 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	67	41	56	63	62	59	57	52	53
L_{wA} Surrounding dB(A)	73	43	62	64	68	67	62	57	55
DVSI									
L_{wA} Surrounding dB(A)	64	42	57	59	59	56	49	44	45
Measurement point: 3492 m³/s; 371 Pa									



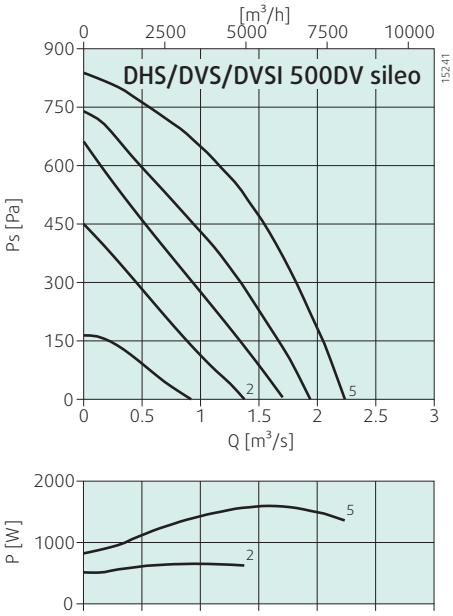
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	41	56	63	64	59	56	51	49
L_{wA} Surrounding dB(A)	72	43	54	67	68	66	60	54	47
DVSI									
L_{wA} Surrounding dB(A)	67	47	59	62	61	59	51	46	41
Measurement point: 3132 m³/s; 362 Pa									



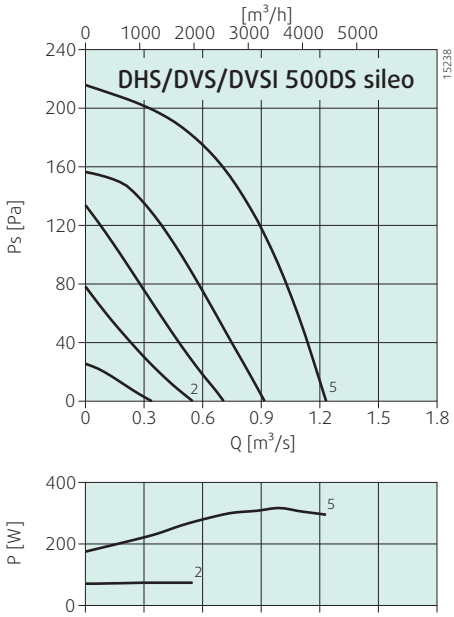
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	41	44	58	54	51	47	42	33
L_{wA} Surrounding dB(A)	66	42	50	64	58	55	50	41	33
DVSI									
L_{wA} Surrounding dB(A)	59	32	47	54	53	46	39	39	27
Measurement point: 2448 m³/s; 178 Pa									



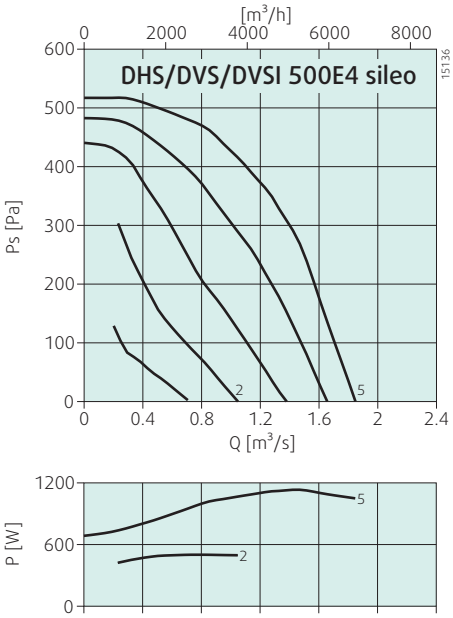
Performance



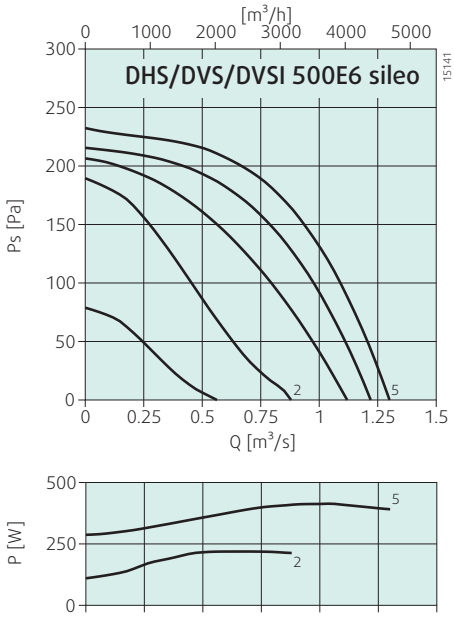
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	48	62	73	69	66	62	58	56
L_{wA} Surrounding dB(A)	77	47	64	69	73	71	67	61	57
DVSI									
L_{wA} Surrounding dB(A)	73	52	64	67	67	65	61	58	57
Measurement point: 4302 m³/h; 467 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	61	48	54	56	54	53	50	44	36
L_{wA} Surrounding dB(A)	64	41	51	58	59	60	52	46	37
DVSI									
L_{wA} Surrounding dB(A)	62	45	52	59	55	53	44	39	35
Measurement point: 3348 m³/h; 198 Pa									

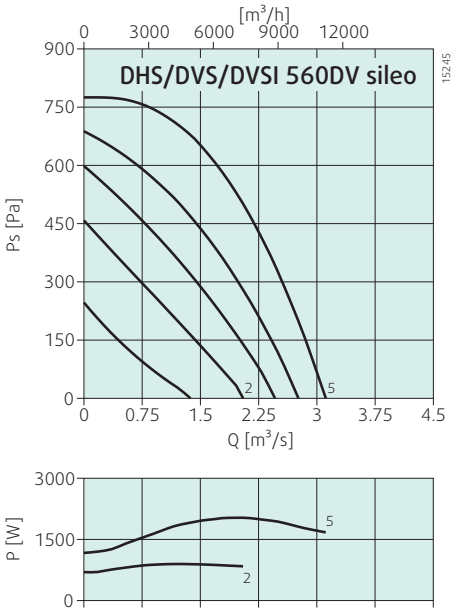


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	73	44	62	66	68	67	64	59	52
DVSI									
L_{wA} Surrounding dB(A)	67	38	56	60	62	61	58	53	46
Measurement point: 3996 m³/h; 400 Pa									

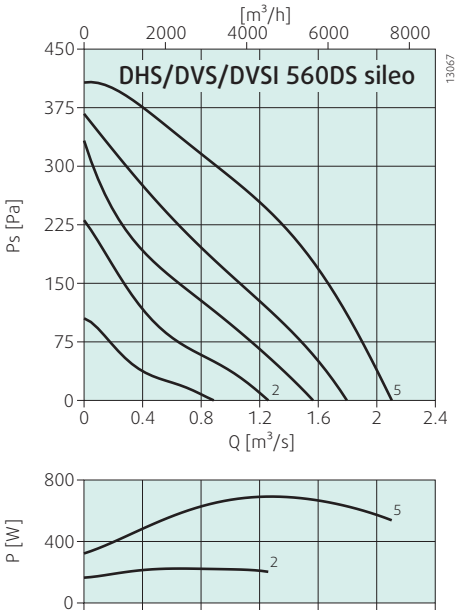


Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	42	56	59	54	51	50	47	39
L_{wA} Surrounding dB(A)	64	40	50	57	59	56	51	46	37
DVSI									
L_{wA} Surrounding dB(A)	59	43	51	55	53	49	42	37	31
Measurement point: 3024 m³/h; 236 Pa									

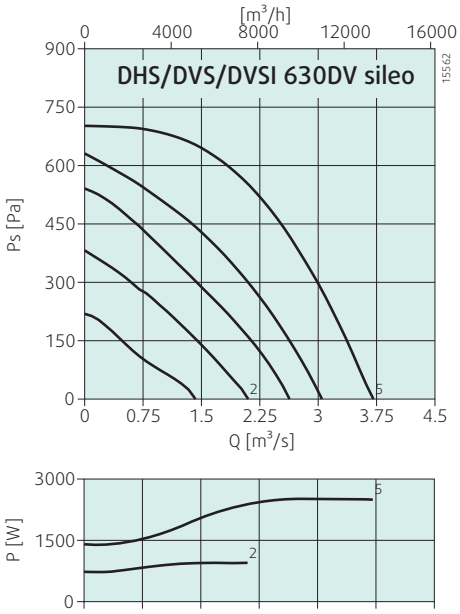
Performance



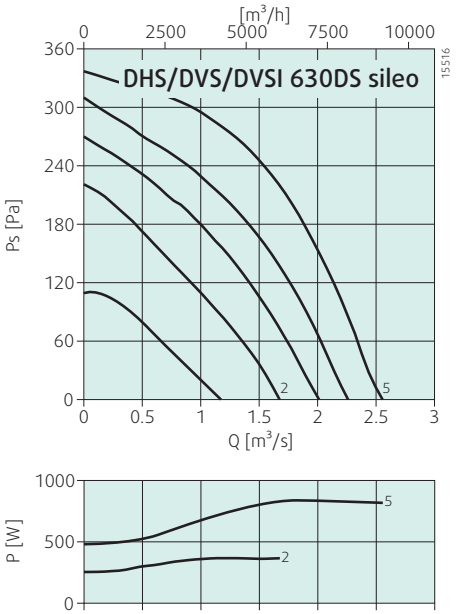
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	44	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	75	46	64	68	70	69	66	61	54
DVSI									
L_{wA} Surrounding dB(A)	66	59	59	61	59	53	46	44	38
Measurement point: 6804 m³/h; 570 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	62	46	55	57	56	51	49	46	38
L_{wA} Surrounding dB(A)	64	41	50	60	59	56	52	48	40
DVSI									
L_{wA} Surrounding dB(A)	61	44	51	58	54	52	43	38	34
Measurement point: 3024 m³/h; 207 Pa									



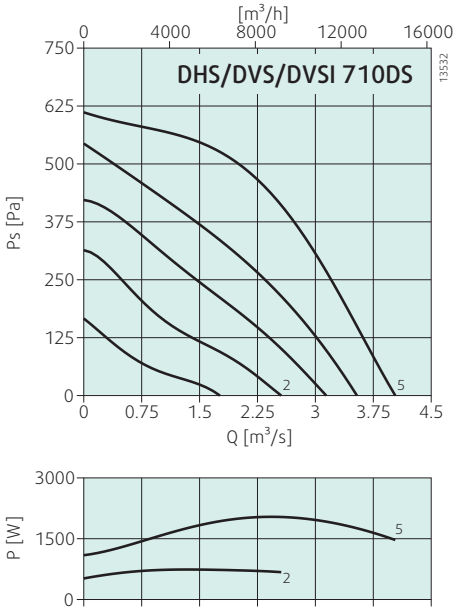
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	56	74	78	80	79	76	71	64
L_{wA} Surrounding dB(A)	87	58	75	80	82	81	78	73	66
DVSI									
L_{wA} Surrounding dB(A)	78	71	71	73	71	65	58	56	50
Measurement point: 6264 m³/h; 268 Pa									



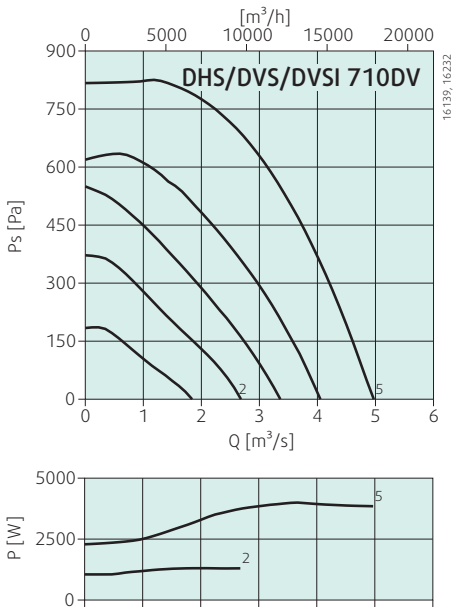
Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	40	58	62	64	63	60	55	48
L_{wA} Surrounding dB(A)	71	42	60	64	66	65	52	58	50
DVSI									
L_{wA} Surrounding dB(A)	62	55	55	58	55	50	42	40	33
Measurement point: 6480 m³/h; 281 Pa									



Performance



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	66	68	73	74	74	70	65	57
L_{wA} Surrounding dB(A)	81	68	70	75	76	76	72	67	59
DVSI									
L_{wA} Surrounding dB(A)	69	63	62	65	60	54	45	42	46
Measurement point: 8856 m³/h; 415 Pa									



Type	Tot	Frequency bands [Hz]							
DHS / DVS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	91	57	65	77	82	90	77	72	63
L_{wA} Surrounding dB(A)	93	58	66	78	83	92	79	73	64
DVSI									
L_{wA} Surrounding dB(A)									
Measurement point: 9843 m³/h; 679 Pa									

DHS, DVS, DVSI sileo roof fans

Wonderfully quiet: The roof fans of the sileo generation

High performance at a low sound level is what true class really is: Welcome to DVS, DHS and DVSI sileo. A generation of modern Systemair roof fans which were developed and built consistently according to the company's set target: low noise level, high performance. Especially suited to all uses and areas of application sensitive to noise. You can see and hear the result: a reduction in sound of almost 50 % at the same system performance and an increased level of efficiency compared to its predecessors.

sileo. Quietly all the way to the top.



DVN EC / DVNI EC

Roof fan



- Temperature of transported air up to 120 °C
- Motor outside the airstream
- EC motor with increased efficiency
- Speed controllable
- Vertical exhaust

Casing
Casing manufactured from sea water resistant aluminium. Base frame with integrated inlet cone, manufactured from galvanised sheet. Includes integrated bird guard manufactured from powder coated, galvanised steel. DVNI with 50 mm acoustic and thermal mineral wool insulation.

Motor
Energy-saving, highly efficient EC motors.

Impeller geometry
Optimised and highly efficient backward curved high density impellers manufactured from aluminium for optimum efficiency.

Output control
100 % controllable via a 0-10 V signal. The fans are equipped with a potentiometer (0-10 V). This is installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



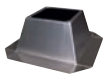
ASF
Inlet flange
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ASK
Connection box
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ASS
Flex. connection
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FDS / FDS-L
Flat roof socket
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FTG
Tilting device
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TG
Roof curb
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SSD
Socket silencer
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TDA DV
Adapter
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VKM
Back draft damper
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VKS
Back draft damper
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CO2RT
Transmitter
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CXE/AVC
Digital regulator
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EC-Vent/Basic
Control unit
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HR1
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MTP
Speed control
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MTV
Speed control
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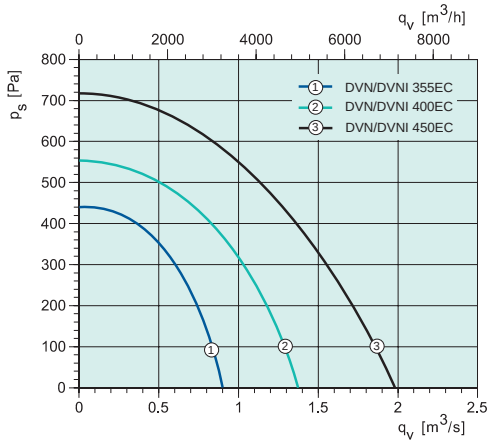


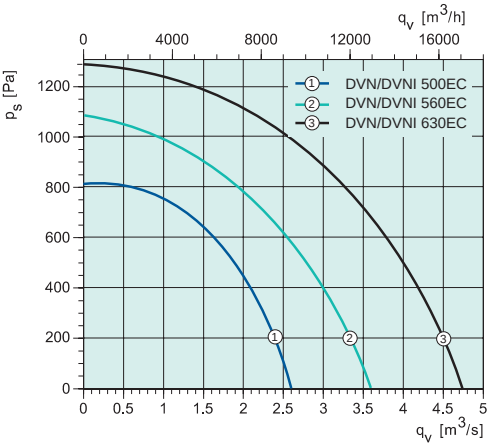
REV
Switching device
Page 510



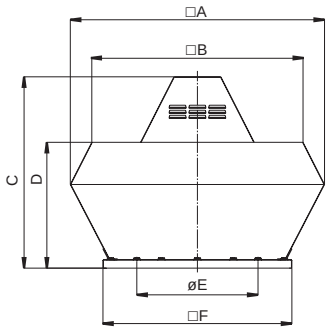
RT
Room Thermostat
Page 490

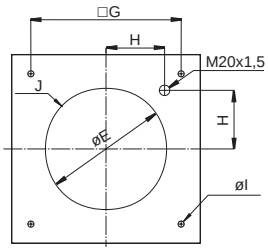
Quick selection





Dimensions





DVN EC	□A	□B	C	D	øE	□F	□G	H	øI	J
355-400	720	618	600	390	438	595	450	200	12(4x)	6xM8
450-500	900	730	675	465	438	665	535	237	12(4x)	6xM8
560	1150	955	900	560	605	939	750	293	14(4x)	8xM8

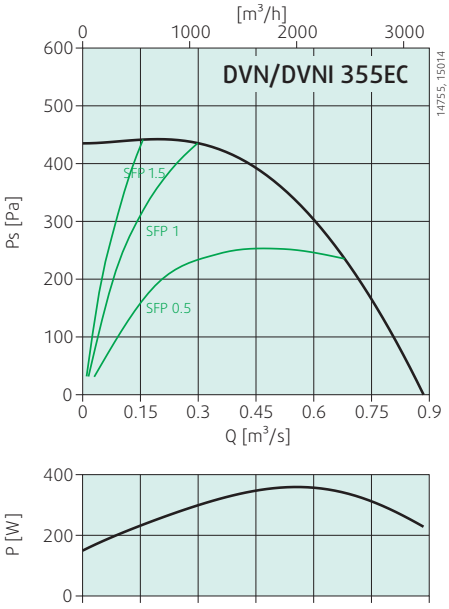
DVNI EC	□A	□B	C	D	øE	□F	□G	H	øI	J
355-400	874	648	600	439	438	595	450	200	12(4x)	6xM8
450-500	970	730	675	479	438	665	535	237	12(4x)	6xM8
560	1315	1035	900	600	605	939	750	293	14(4x)	8xM8

Technical data

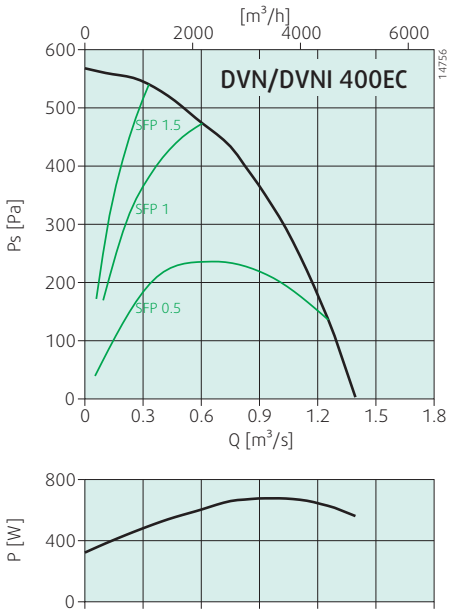
DVN EC		DVN 355EC	DVN 400EC	DVN 450EC	DVN 450EC-K	DVN 500EC	DVN 560EC
Art. no.		*37103*	*37125*	*37126*	*37730*	*37127*	*37128*
Voltage	V	230	230	400	230	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	3	1	3	3
Input power (P1)	W	359	677	974	1176	1975	2467
Current	A	1.55	2.85	1.6	4.86	2.91	3.68
Max. airflow	m^3/h	3186	5018	7081	7000	9576	12920
Fan impeller speed	r.p.m.	1511	1463	1410	1506	1500	1410
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	50	52	59	53	65	64
Sound pressure level at 10 m (free field)	dB(A)	42	44	51	45	57	56
Weight	kg	29	33	48	54.5	67	83
Insulation class		B	B	B	B	F	F
Enclosure class, motor	IP	55	55	55	IP55	55	55
Motor protection		integrated	integrated	integrated	integrated	integrated	integrated

DVNI EC		DVNI 355EC	DVNI 400EC	DVNI 450EC	DVNI 450EC-K	DVNI 500EC	DVNI 560EC
Art. no.		*37488*	*37489*	*37490*	*37731*	*37491*	*38092*
Voltage	V	230	230	400	230	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	3	1	3	3
Input power (P1)	W	359	677	974	1176	1975	2467
Current	A	1.55	2.85	1.6	4.86	2.91	3.68
Max. airflow	m^3/h	3186	5018	7081	7096	9576	12920
Fan impeller speed	r.p.m.	1511	1463	1410	1506	1500	1410
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	44	46	47	53	50	58
Sound pressure level at 10 m (free field)	dB(A)	36	38	39	45	42	50
Weight	kg	38	41	53	60	71	76
Insulation class		B	B	B	B	F	F
Enclosure class. motor	IP	55	55	55	55	55	55
Motor protection		integrated	integrated	integrated	integrated	integrated	integrated

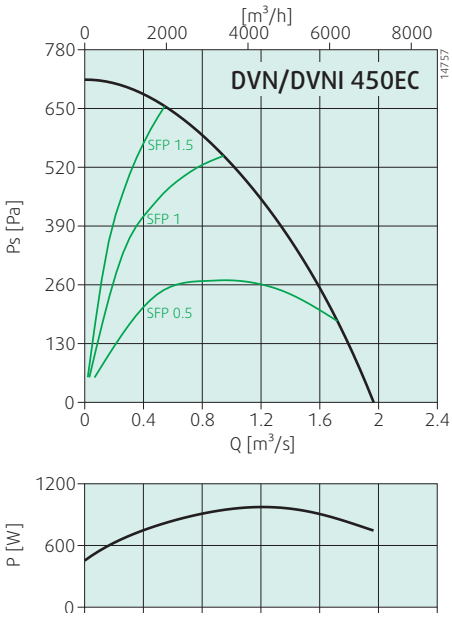
Performance



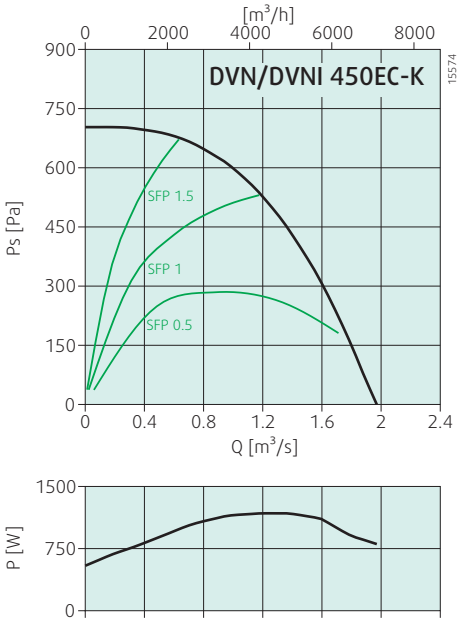
Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	39	64	61	64	62	62	58	54
L_{wA} Surrounding dB(A)	73	39	61	63	67	69	65	61	57
DVNI EC									
L_{wA} Surrounding dB(A)	68	45	56	59	62	62	59	55	51
Measurement point: 1782 m³/h; 371 Pa									



Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	63	65	69	71	70	67	62	55
L_{wA} Surrounding dB(A)	78	65	67	71	73	72	69	64	57
DVNI EC									
L_{wA} Surrounding dB(A)	72	35	42	59	69	67	63	55	43
Measurement point: 2772 m³/h; 427 Pa									

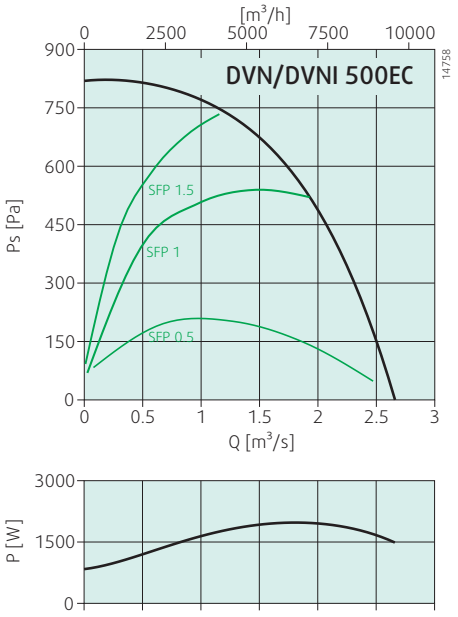


Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	47	63	68	68	69	70	72	65
L_{wA} Surrounding dB(A)	82	46	61	72	75	77	73	75	69
DVNI EC									
L_{wA} Surrounding dB(A)	67	60	60	62	60	54	47	45	39
Measurement point: 3888 m³/h; 497 Pa									

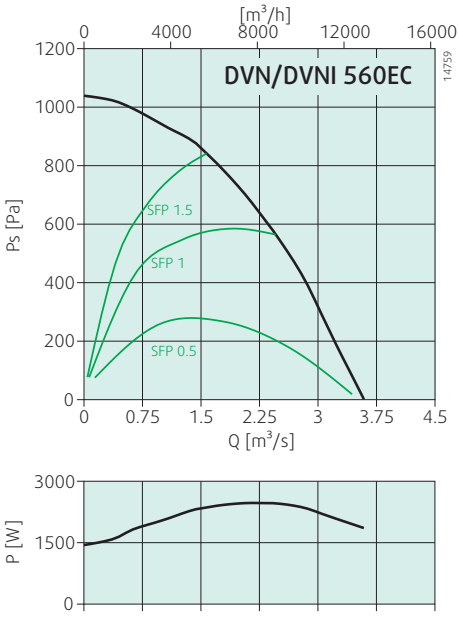


Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	54	73	81	76	77	75	71	67
L_{wA} Surrounding dB(A)	88	56	68	75	84	84	79	74	69
DVNI EC									
L_{wA} Surrounding dB(A)	70	63	63	65	63	57	50	48	42
Measurement point: 6038 m³/h; 621 Pa									

Performance



Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	54	73	81	76	77	75	71	67
L_{wA} Surrounding dB(A)	88	56	68	75	84	84	79	74	69
DVNI EC									
L_{wA} Surrounding dB(A)	70	63	63	65	63	57	50	48	42
Measurement point: 6038 m³/h; 621 Pa									



Type	Tot	Frequency bands [Hz]							
DVN EC		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	66	68	72	74	73	70	65	58
L_{wA} Surrounding dB(A)	89	76	78	82	84	83	80	75	68
DVNI EC									
L_{wA} Surrounding dB(A)	73	66	66	68	66	62	54	52	45
Measurement point: 7092 m³/h; 730 Pa									

DVN / DVNI

Roof fan



- Temperature of transported air up to 120 °C
- Motor outside the airstream
- IE2 motor with increased efficiency, where applicable
- Speed controllable
- Vertical discharge

Casing
Casing manufactured from sea water resistant aluminium. Base frame with integrated inlet cone, manufactured from galvanised sheet. Includes bird guard manufactured from powder coated, galvanised steel. DVNI with 50 mm acoustic and thermal mineral wool insulation.

Motor
Voltage controllable IEC standard motors and frequency converter controllable IE2 standard motors.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Single phase motors can be speed controlled via a 5-step transformer. In addition, three-phase motors where indicated are step speed controllable via star-delta switching. IE2 motors can only be controlled via frequency converter.

Motor protection
Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com.

Accessories



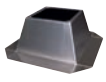
ASF
Inlet flange
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RTRE
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REU
Speed control
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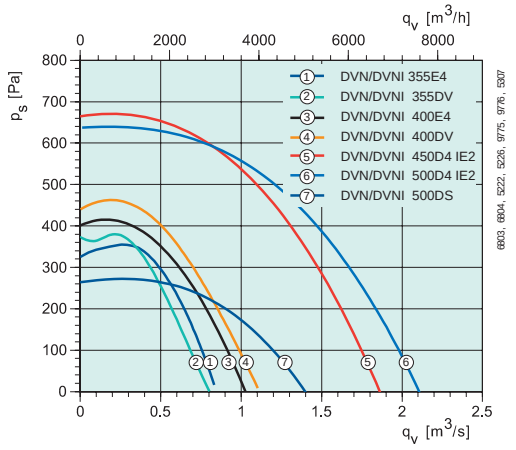


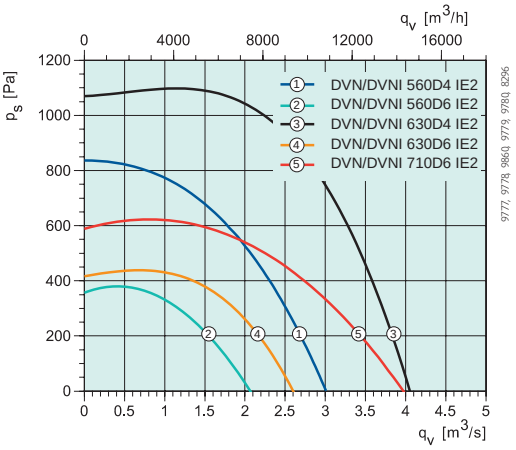
REV
Switching device
Page 510



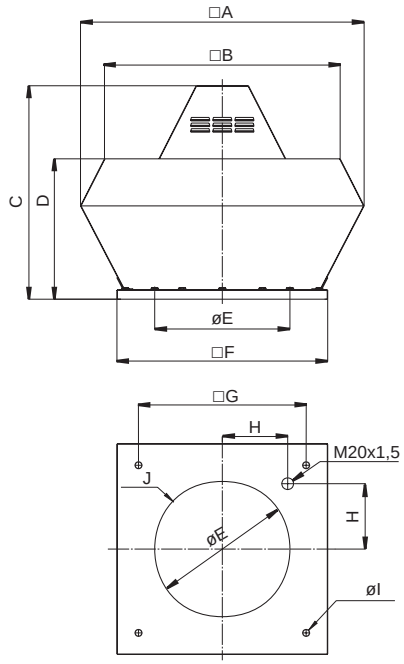
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



DVN	□A	□B	C	D	øE	□F	□G	H	øI	J
355-400	720	618	600	390	438	595	450	200	12(4x)	6xM8
450-500	900	730	675	465	438	665	535	237	12(4x)	6xM8
560-630	1150	955	900	560	605	939	750	293	14(4x)	8xM8
710	1350	1178	936	660	674	1035	840	320	14(4x)	8xM8
800-900	1690	-	1180	830	872	1255	1050	433	14(4x)	8xM8

DVNI	□A	□B	C	D	øE	□F	□G	H	øI	J
355-400	874	648	600	439	438	595	450	200	12(4x)	6xM8
450-500	970	730	675	479	438	665	535	237	12(4x)	6xM8
560-630	1315	1035	900	600	605	939	750	293	14(4x)	8xM8
710	1483	1165	936	729	674	1035	840	320	14(4x)	8xM8

Technical data

DVN		355E4	355DV	355DS	400E4	400DV	450E4
Art. no.		*30301*	*30278*	*30285*	*2630*	*2631*	*8700*
Voltage	V	230	400	400	230	400	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	3	1	3	1
Input power (P1)	W	338	327	215	440	526	1027
Current	A	1.49	1.2	1.04	2	1.37	4.47
Starting current	A	4.9	4.6	2.3	4.9	4.6	18
Max. airflow	m^3/h	3046	3020	1940	3600	3960	5774
Fan impeller speed	r.p.m.	1408	1420	969	1420	1442	1412
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	49	50	41	52	52	54
Sound pressure level at 10 m (free field)	dB(A)	41	42	32	44	44	46
Weight	kg	30.6	26	24	30.8	29.6	49
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	12	-	-	12	-	30
Motor protection [1]		S-ET 10	STDT 16	STDT 16	S-ET 10	STDT 16	S-ET 10
Speed control, 5-step [1]	Transf.	RTRE 3	RTRD 2	RTRD 2	RTRE 3	RTRD 2	RTRE 5
Speed control, 5-step high/low [1]	Transf.	REU 3	RTRDU 2	RTRU 2	REU 3	RTRDU 2	RTRU 5
Speed control, 2-step [1]		-	S-DT2KT	S-DT2KT	-	S-DT2KT	-
Speed control, stepless [1]	elektr.	FRQ(S)-E-6A	FRQ(S)-4A	FRQ(S)-4A	-	FRQ(S)-4A	FRQ(S)-E-6A

[1] Systemair recommendation. More alternatives can be found on page 478.

Technical data

DVN		450D4 IE2	500D4 IE2	500DS	560D4 IE2	560D6 IE2	630D4 IE2
Art. no.		*32184*	*32185*	*9852*	*32187*	*32188*	*33554*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	Y	D/Y	Y	Y	D
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	864	1361	422	2216	766	4535
Current	A	1.78	3.39	1.86	5.2	1.81	8.12
Starting current	A	8.9	23	5.2	32.4	8.9	60.9
Max. airflow	m^3/h	5908	7837	5083	10786	7340	14648
Fan impeller speed	r.p.m.	1390	1400	936	1374	962	1450
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	53	56	47	64	49	66
Sound pressure level at 10 m (free field)	dB(A)	45	48	39	56	41	58
Weight	kg	46.6	57.4	47	89	81	101
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	54	55	55	55
Motor protection [1]		U-EK230E	U-EK230E	STDT 16	U-EK230E	U-EK230E	U-EK230E
Speed control, 5-step [1]	Transf.	FRQ5(S)-4A	FRQ5(S)-4A	RTRD 2	FRQ5(S)-10A	FRQ5(S)-4A	FRQ5(S)-10A
Speed control, 5-step high/low [1]	Transf.	-	-	RTRDU 2	-	-	-
Speed control, 2-step [1]		-	-	S-DT2KT	-	-	-
Speed control, stepless [1]	elektr.	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-10A	FRQ(S)-4A	FRQ(S)-10A

DVN		630D6 IE2	630DS	710D6 IE2	710D6-L IE2	800D6 IE2	900D6 IE2
Art. no.		*32189*	*9848*	*33555*	*33669*	*34102*	*9853*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	D/Y	Y	Y	D	D
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	1337	1332	2386	3063	4445	7386
Current	A	2.96	4	5.1	5.1	8.96	16
Starting current	A	15.1	13.7	22.9	22.9	44.8	103
Max. airflow	m^3/h	9583	9405	14450	18029	24012	31518
Fan impeller speed	r.p.m.	975	940	945	945	960	982
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	53	54	58	62	64	70
Sound pressure level at 10 m (free field)	dB(A)	45	46	50	54	55	62
Weight	kg	91	84	119	110	312	389
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Motor protection [1]		U-EK230E	STDT 16	U-EK230E	U-EK230E	U-EK230E	U-EK230E
Speed control, 5-step [1]	Transf.	FRQ5(S)-4A	RTRD 5.2	FRQ5(S)-10A	FRQ5(S)-10A	FRQ5(S)-10A	FRQ5(S)-16A
Speed control, 5-step high/low [1]	Transf.	-	RTRDU 7	-	-	-	-
Speed control, 2-step [1]		-	S-DT2KT	-	-	-	-
Speed control, stepless [1]	elektr.	FRQ(S)-4A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-16A

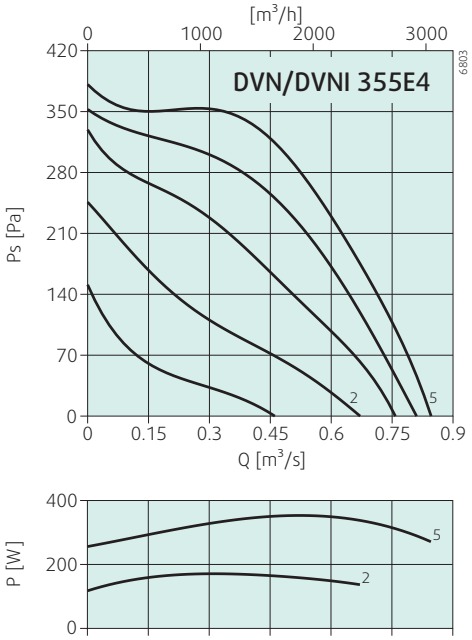
[1] Systemair recommendation. More alternatives can be found on page 478.

DVNI		355E4	355DV	355DS	400E4	400DV	450D4 IE2
Art. no.		*30446*	*30313*	*30513*	*3909*	*3396*	*33462*
Voltage	V	230	400	400	230	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	3	1	3	3
Input power (P1)	W	338	327	215	440	526	864
Current	A	1.49	1.2	1.04	2	1.37	1.78
Starting current	A	4.9	4.6	2.3	4.9	4.6	8.9
Max. airflow	m^3/h	3046	3020	1940	3600	3960	5908
Fan impeller speed	r.p.m.	1408	1420	969	1420	1442	1390
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	40	40	31	43	43	44
Sound pressure level at 10 m (free field)	dB(A)	32	32	23	35	35	36
Weight	kg	39.2	36	34	38	37	52
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	55
Capacitor	µF	12	-	-	12	-	-
Motor protection (1)		S-ET 10	STDT 16	STDT 16	S-ET 10	STDT 16	U-EK230E
Speed control, 5-step (1)	Transf.	RTRE 3	RTRD 2	RTRD 2	RTRE 3	RTRD 2	FRQ5(S)-4A
Speed control, 5-step high/low (1)	Transf.	REU 3	RTRDU 2	RTRU 2	REU 3	RTRDU 2	-
Speed control, 2-step (1)		-	S-DT2KT	S-DT2KT	-	S-DT2KT	-
Speed control, stepless (1)	elektr.	-	FRQ(S)-4A	FRQ(S)-4A	-	FRQ(S)-4A	FRQ(S)-4A

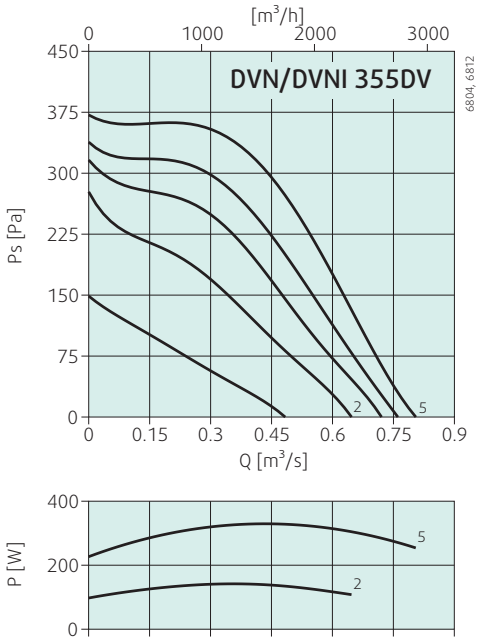
DVNI		450E4	500D4 IE2	500DS	560D4 IE2	560D6 IE2	630D4 IE2
Art. no.		*34448*	*33463*	*9857*	*33465*	*33466*	*33468*
Voltage	V	230	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	3	3	3	3
Input power (P1)	W	1027	1361	422	2216	766	4535
Current	A	4.47	3.39	1.86	5.2	1.81	8.12
Starting current	A	18	23	5.2	32.4	8.9	60.9
Max. airflow	m^3/h	5774	7837	5083	10786	14648	14904
Fan impeller speed	r.p.m.	1412	1400	936	1374	962	1450
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	45	47	38	55	44	57
Sound pressure level at 10 m (free field)	dB(A)	37	39	30	47	36	49
Weight	kg	53	61	53	95	87	109
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	55	54	55	55	55
Capacitor	µF	30	-	-	-	-	-
Motor protection (1)		S-ET 10	U-EK230E	STDT 16	U-EK230E	U-EK230E	U-EK230E
Speed control, 5-step (1)	Transf.	RTRE 5	FRQ5(S)-4A	RTRD 2	FRQ5(S)-10A	FRQ5(S)-4A	FRQ5(S)-10A
Speed control, 5-step high/low (1)	Transf.	RTRU 5	-	RTRDU 2	-	-	-
Speed control, 2-step (1)		-	-	S-DT2KT	-	-	-
Speed control, stepless (1)	elektr.	FRQ(S)-E-6A	FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-10A	FRQ(S)-4A	FRQ(S)-10A

DVNI		630D6 IE2	630DS	710D6 IE2	710D6-L IE2	800D6 IE2	900D6 IE2
Art. no.		*33467*	*9865*	*33469*	*33670*	*34103*	*9872*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	D/Y	Y	Y	D	D
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	1337	1332	2386	3063	4445	7386
Current	A	2.96	4	5.1	5.1	8.96	16
Starting current	A	15.1	13.7	22.9	22.9	44.8	103
Max. airflow	m^3/h	9583	9405	14450	18029	24012	31518
Fan impeller speed	r.p.m.	975	940	945	945	960	982
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	44	45	49	56	56	61
Sound pressure level at 10 m (free field)	dB(A)	36	37	41	48	47	53
Weight	kg	100	101	128	132	405	407
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	54	55	55	55	55
Motor protection (1)		U-EK230E	STDT 16	U-EK230E	U-EK230E	U-EK230E	U-EK230E
Speed control, 5-step (1)	Transf.	FRQ5(S)-4A	RTRD 5.2	FRQ5(S)-10A	FRQ5(S)-10A	FRQ5(S)-10A	FRQ5(S)-16A
Speed control, 5-step high/low (1)	Transf.	-	RTRDU 7	-	-	-	-
Speed control, 2-step (1)		-	S-DT2KT	-	-	-	-
Speed control, stepless (1)	elektr.	FRQ(S)-4A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-10A	FRQ(S)-16A

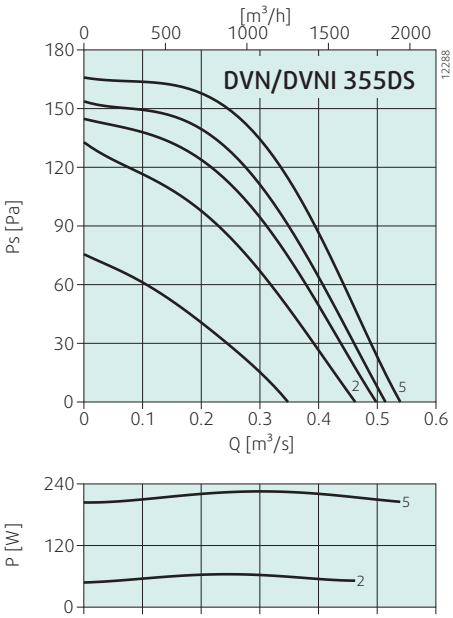
Performance



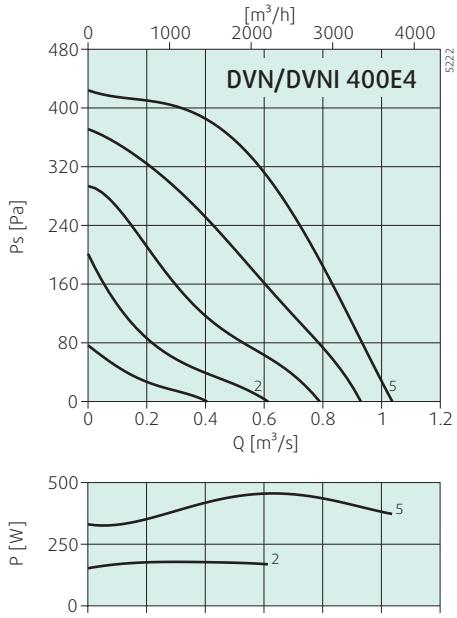
Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	72	43	61	65	67	66	63	58	51
DVNI									
L_{wA} Surrounding dB(A)	63	34	52	56	58	57	54	49	42
Measurement point: 1620 m³/h; 315 Pa									



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	41	59	63	65	64	61	56	49
L_{wA} Surrounding dB(A)	72	43	61	65	67	66	63	58	51
DVNI									
L_{wA} Surrounding dB(A)	63	34	52	56	58	57	54	49	42
Measurement point: 1584 m³/h; 299 Pa									

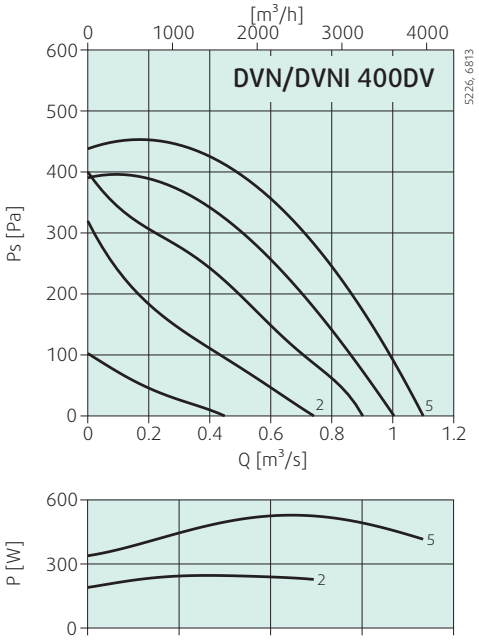


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	60	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	75	62	64	68	70	69	66	61	54
DVNI									
L_{wA} Surrounding dB(A)	66	59	59	61	60	56	47	45	39
Measurement point: 2484 m³/h; 249 Pa									

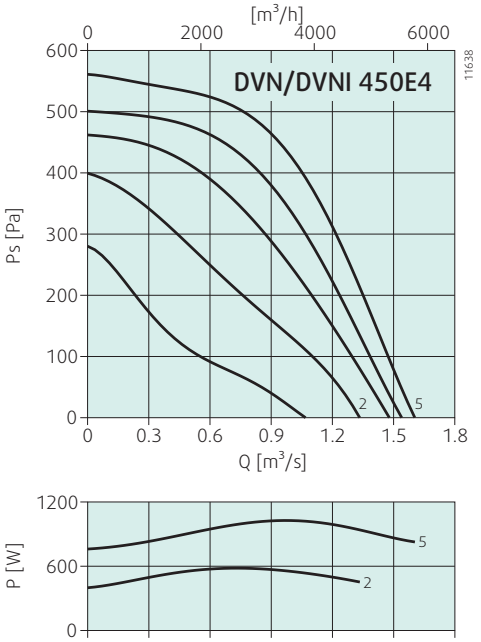


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	60	62	66	68	67	64	59	52
L_{wA} Surrounding dB(A)	75	62	64	68	70	69	66	61	54
DVNI									
L_{wA} Surrounding dB(A)	66	59	59	61	60	56	47	45	39
Measurement point: 2664 m³/h; 285 Pa									

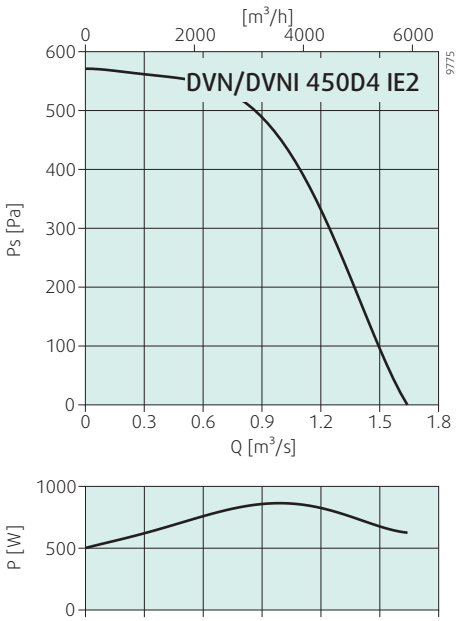
Performance



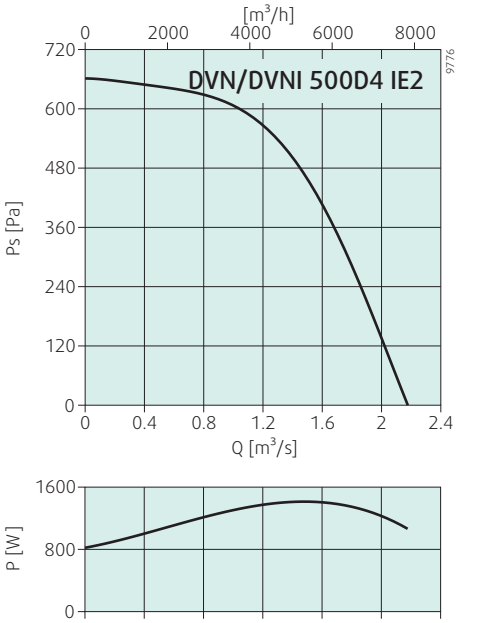
Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	61	63	67	69	68	65	60	53
L_{wA} Surrounding dB(A)	76	63	65	69	71	70	67	62	55
DVNI									
L_{wA} Surrounding dB(A)	67	60	60	62	60	54	47	45	39
Measurement point: 3996 m³/h; 489 Pa									



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	64	66	70	72	71	68	63	56
L_{wA} Surrounding dB(A)	79	66	68	72	74	73	70	65	58
DVNI									
L_{wA} Surrounding dB(A)	70	63	63	65	63	57	50	48	42
Measurement point: 5400 m³/h; 400 Pa									

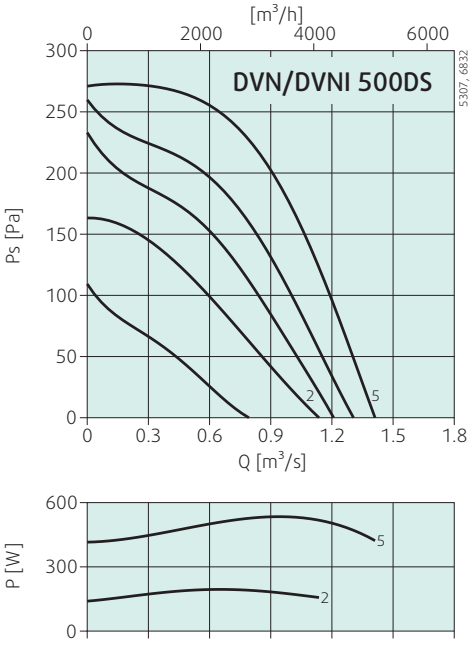


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	55	57	62	63	63	59	54	46
L_{wA} Surrounding dB(A)	70	57	59	64	65	65	61	56	48
DVNI									
L_{wA} Surrounding dB(A)	61	54	54	57	54	49	41	39	32
Measurement point: 2484 m³/h; 250 Pa									

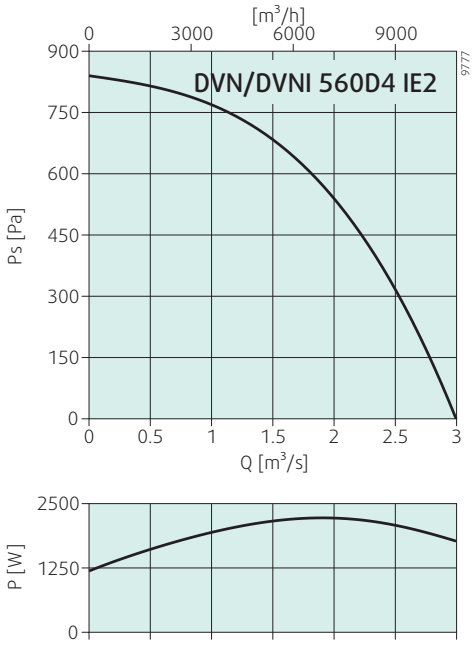


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	66	68	72	74	73	70	65	58
L_{wA} Surrounding dB(A)	86	73	75	79	81	80	77	72	65
DVNI									
L_{wA} Surrounding dB(A)	77	70	70	72	70	64	57	55	49
Measurement point: 5400 m³/h; 701 Pa									

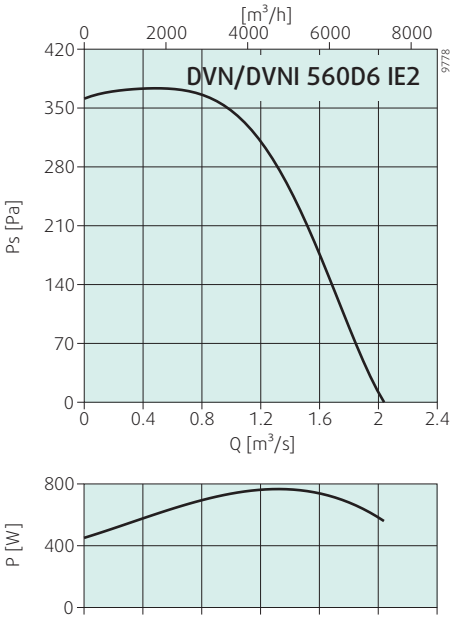
Performance



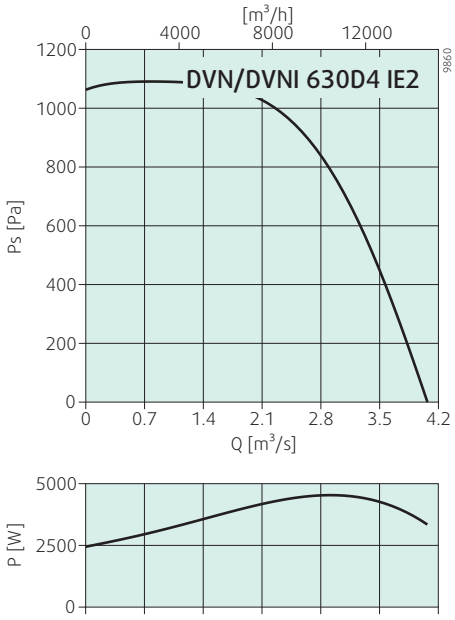
Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	57	59	64	65	65	61	56	48
L_{wA} Surrounding dB(A)	72	59	61	66	67	67	63	58	50
DVNI									
L_{wA} Surrounding dB(A)	63	56	56	59	56	53	44	42	34
Measurement point: 3960 m³/h; 340 Pa									



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	74	76	80	82	81	78	73	66
L_{wA} Surrounding dB(A)	89	76	78	82	84	83	80	75	68
DVNI									
L_{wA} Surrounding dB(A)	80	73	73	75	73	69	61	59	52
Measurement point: 11016 m³/h; 600 Pa									

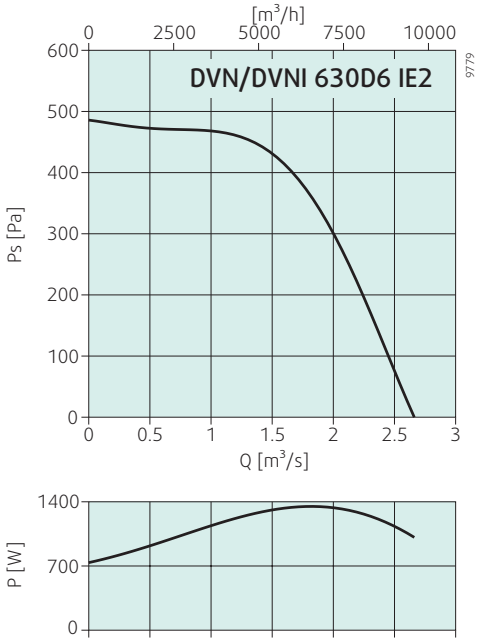


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	61	63	68	69	69	65	60	52
L_{wA} Surrounding dB(A)	76	63	65	70	71	71	67	62	54
DVNI									
L_{wA} Surrounding dB(A)	67	60	60	63	60	57	48	46	38
Measurement point: 5580 m³/h; 370 Pa									

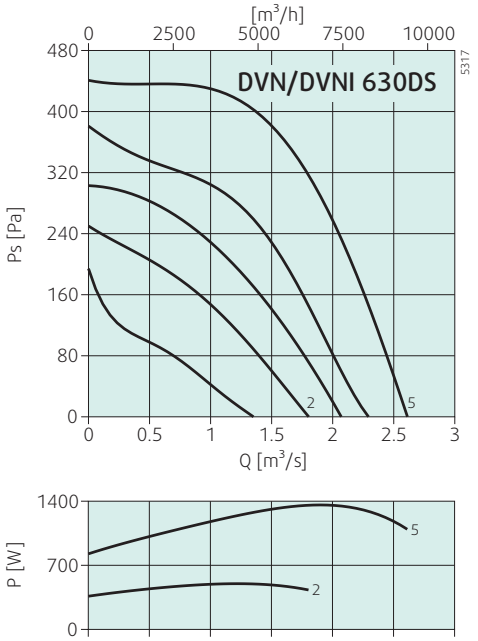


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	66	68	73	74	74	70	65	57
L_{wA} Surrounding dB(A)	81	68	70	75	76	76	72	67	59
DVNI									
L_{wA} Surrounding dB(A)	72	65	65	67	65	62	53	51	44
Measurement point: 10548 m³/h; 400 Pa									

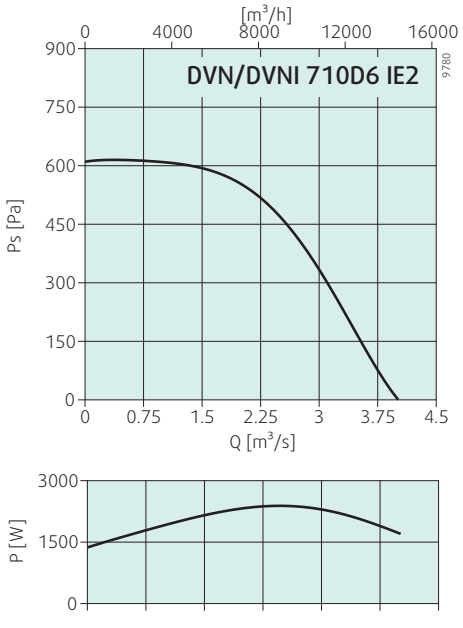
Performance



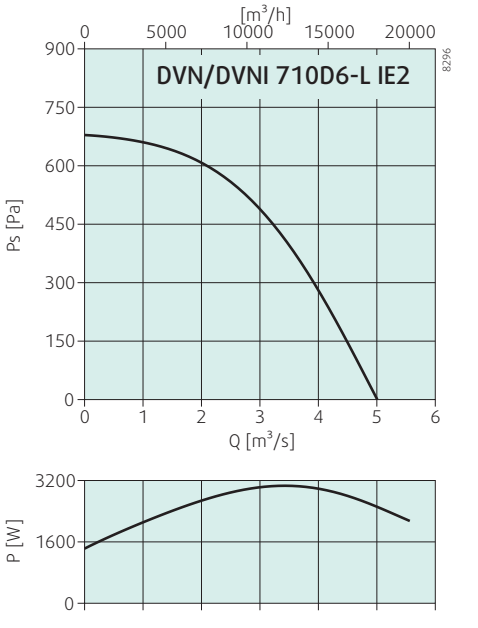
Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	51	68	73	74	78	77	75	67
L_{wA} Surrounding dB(A)	87	52	69	77	83	81	79	77	69
DVNI									
L_{wA} Surrounding dB(A)	81	60	70	74	76	75	72	69	63
Measurement point: 10044 m³/h; 522 Pa									



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	51	68	73	74	78	77	75	67
L_{wA} Surrounding dB(A)	87	52	69	77	83	81	79	77	69
DVNI									
L_{wA} Surrounding dB(A)	81	60	70	74	76	75	72	69	63
Measurement point: 10044 m³/h; 522 Pa									

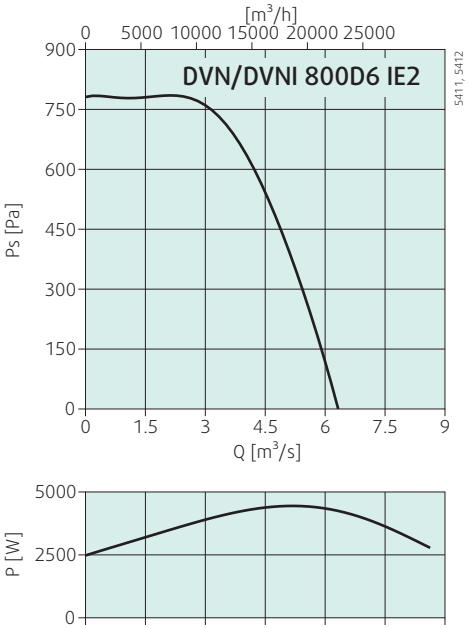


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	51	68	73	74	78	77	75	67
L_{wA} Surrounding dB(A)	87	52	69	77	83	81	79	77	69
DVNI									
L_{wA} Surrounding dB(A)	81	60	70	74	76	75	72	69	63
Measurement point: 10044 m³/h; 522 Pa									

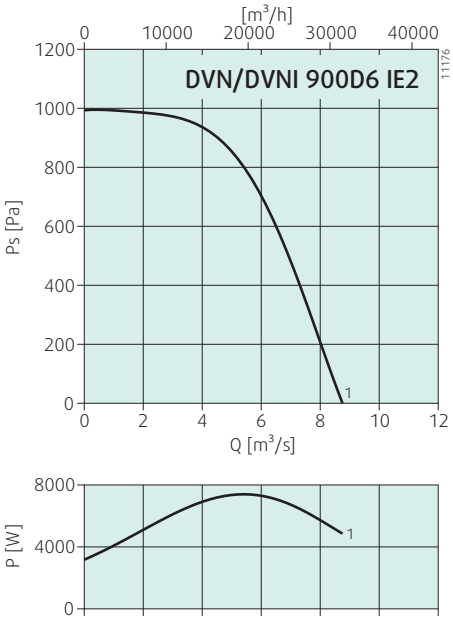


Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	51	68	73	74	78	77	75	67
L_{wA} Surrounding dB(A)	87	52	69	77	83	81	79	77	69
DVNI									
L_{wA} Surrounding dB(A)	81	60	70	74	76	75	72	69	63
Measurement point: 10044 m³/h; 522 Pa									

Performance



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	57	59	64	65	65	61	56	48
L_{wA} Surrounding dB(A)	72	59	61	66	67	67	63	58	50
DVNI									
L_{wA} Surrounding dB(A)	63	56	56	59	56	53	44	42	34
Measurement point: 3960 m³/h; 340 Pa									



Type	Tot	Frequency bands [Hz]							
DVN		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	61	63	68	69	69	65	60	52
L_{wA} Surrounding dB(A)	76	63	65	70	71	71	67	62	54
DVNI									
L_{wA} Surrounding dB(A)	67	60	60	63	60	57	48	46	38
Measurement point: 5580 m³/h; 370 Pa									



DVV

Roof fan



- Temperature of transported air up to 120 °C
- IE2 motor with increased efficiency
- Speed controllable via frequency inverter
- Vertical discharge
- Low noise level
- Also available as DVVI version with additional sound absorbing hood on request

Casing
Octagonal casing made from sea water resistant aluminium or aluminium-zinc. Base frame with inlet cone manufactured from galvanised steel.

Motor
Frequency converter controllable IEC flange motors which comply with efficiency class IE2.

Impeller geometry
Radial impeller with backward curved blades manufactured from galvanised steel.

Output control
Speed controllable via frequency inverter.

Motor protection
Integrated PTC thermistors. Equipped with a maintenance switch as standard.

You can find more information in our online catalogue on www.systemair.com

Accessories



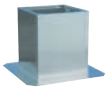
ASFV
Inlet flange
Page 555



ASG/F
Connection box
Page 543



ASSG/F
Flex. connection
Page 555



SSG
Roof socket silencer
Page 549



SSGE
Roof socket silencer
Page 549



VKG/F
Automatic shutter
Page 554

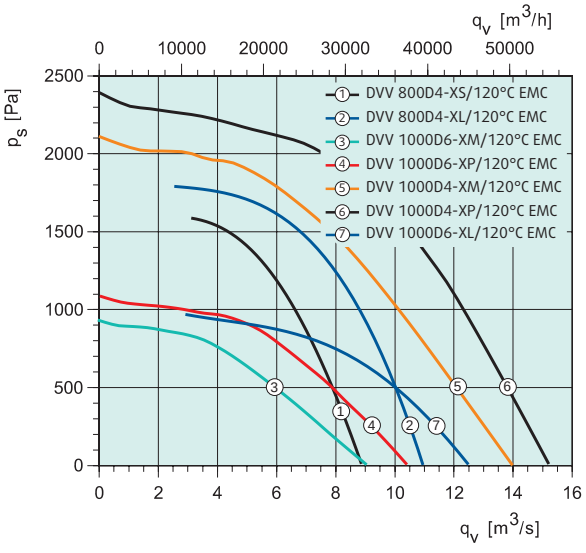


HSDV
Silencer
Page 552



VKGM
Motorized shutter
Page 555

Quick selection



Electrical accessories

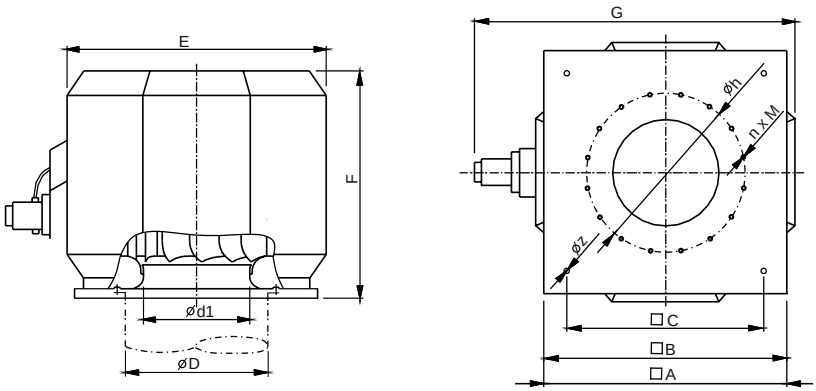


U-EK230E
Motor protection
Page 502



FC102
Frequency inverter
Page 492

Dimensions



DVV	□A	□B	□C	øD	ød1	E	F	G	øh	øz	nxM
800 XL	1255	1251	1050	800	581	1350	1280	1688	860	14	16xM8
800 XS	1255	1251	1050	800	581	1350	1105	1663	860	14	16xM8
1000	1255	1251	1050	800	675	1500	1490	1845	860	14	16xM8

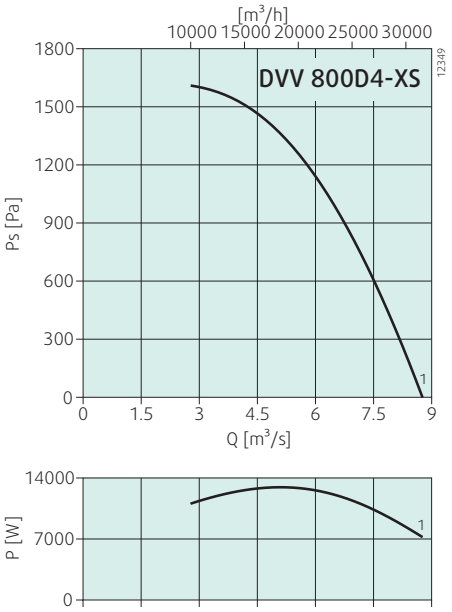
Technical data

DVV		DVV 800D4-XS/120°C EMC	DVV 800D4-XL/120°C EMC	DVV 1000D6-XM/120°C EMC	DVV 1000D6-XP/120°C EMC
Art. no.		*95482*	*95483*	*95484*	*95485*
Voltage	V	400	400	400	400
Motor circuit connection		D	D	D	D
Frequency	Hz	50	50	50	50
Phase	~	3	3	3	3
Input power (P1)	W	12887	18533	6530	9057
Current	A	22	34.6	12.8	18
Starting current	A	157	265	106	154
Max. airflow	m^3/h	31500	40000	32500	37300
Fan impeller speed	r.p.m.	1461	1461	980	982
Max. temperature of transported air	°C	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	76	83	73	75
Sound pressure level at 10 m (free field)	dB(A)	70	75	65	67
Weight	kg	260	372	366	388
Insulation class		F	F	F	F
Enclosure class, motor	IP	55	55	55	55

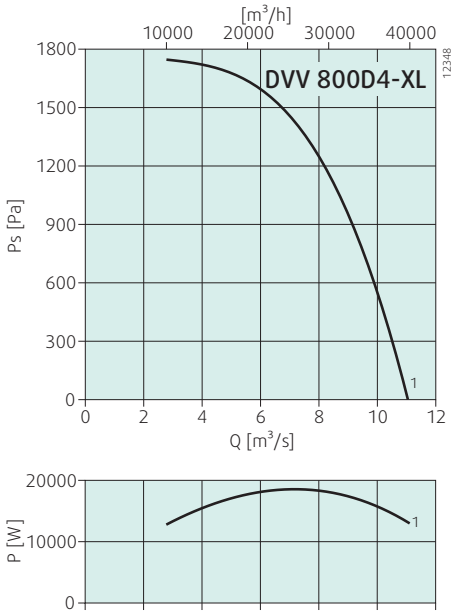
DVV		DVV 1000D4-XM/120°C EMC	DVV 1000D4-XP/120°C EMC	DVV 1000D6-XL/120°C EMC	
Art. no.		*95486*	*95487*	*95494*	
Voltage	V	400	400	400	
Motor circuit connection		D	D	D	
Frequency	Hz	50	50	50	
Phase	~	3	3	3	
Input power (P1)	W	22293	30105	11112	
Current	A	39	51	21.4	
Starting current	A	310	400	154	
Starting current (Y – D starting)	A	104	134		
Max. airflow	m^3/h	51000	56000	45000	
Fan impeller speed	r.p.m.	1472	1473	977	
Max. temperature of transported air	°C	120	120	120	
Sound pressure level at 4 m (free field)	dB(A)	86	88	74	
Sound pressure level at 10 m (free field)	dB(A)	78	80	66	
Weight	kg	430	499	400	
Insulation class		F	F	F	
Enclosure class, motor	IP	55	55	55	



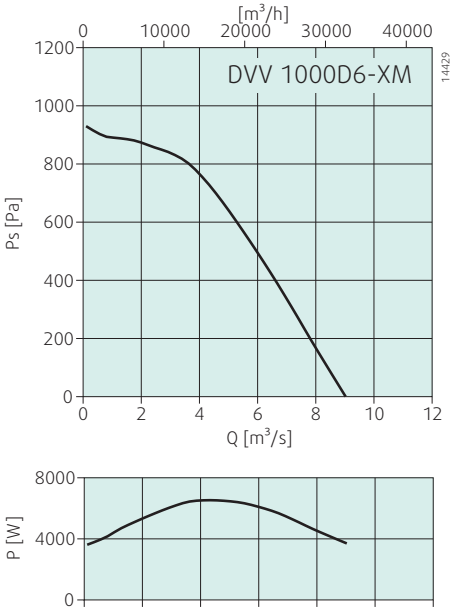
Performance



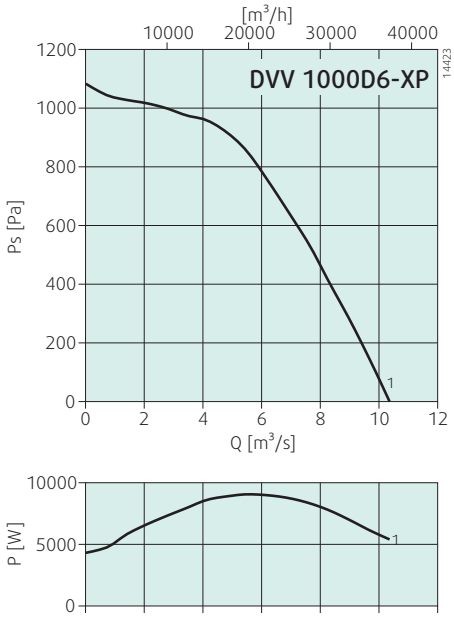
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	98	71	83	91	92	91	89	86	78
L_{wA} Surrounding dB(A)	99	72	84	92	93	92	90	87	79
Measurement point: 23400 m³/h; 990 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	104	77	89	97	98	97	95	91	84
L_{wA} Surrounding dB(A)	106	79	91	99	100	99	97	94	86
Measurement point: 33480 m³/h; 850 Pa									



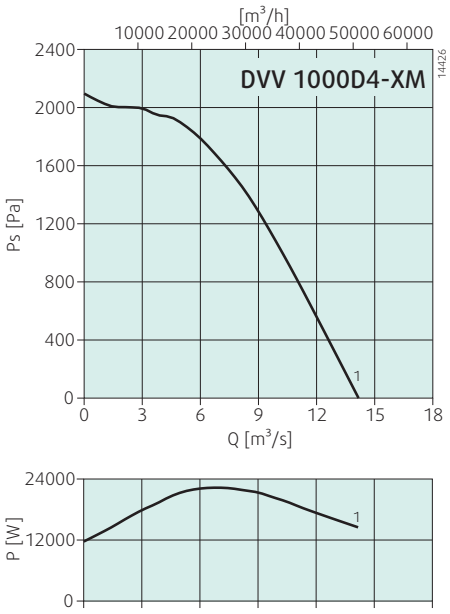
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	75	81	83	87	85	85	80	69
L_{wA} Surrounding dB(A)	95	78	84	86	90	88	88	83	72
Measurement point: 17280 m³/h; 660 Pa									



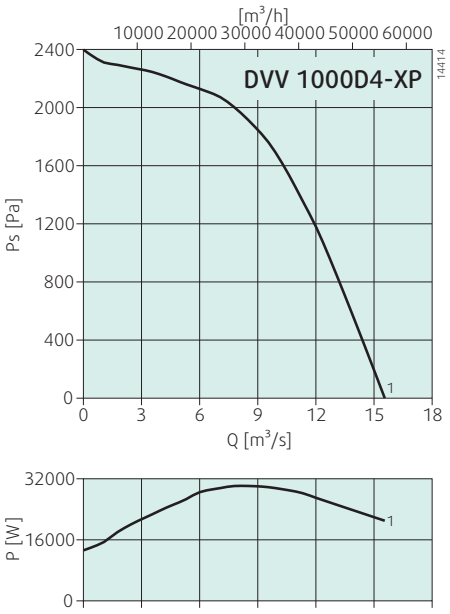
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	93	75	81	84	88	85	85	80	69
L_{wA} Surrounding dB(A)	96	78	84	87	91	88	88	83	72
Measurement point: 25560 m³/h; 620 Pa									



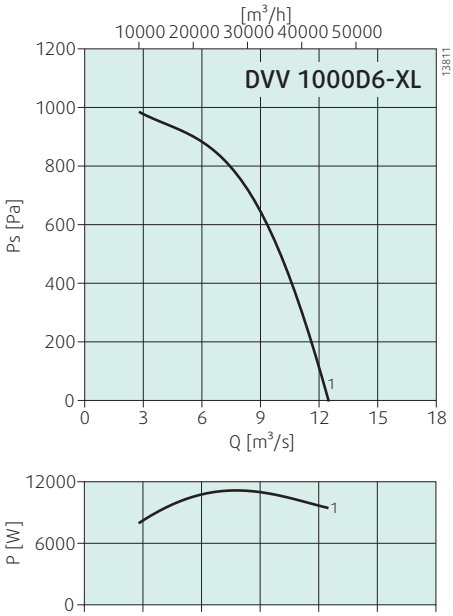
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	104	82	91	97	100	96	94	92	80
L_{wA} Surrounding dB(A)	108	86	95	101	104	100	98	96	84
Measurement point: 26280 m³/h; 1600 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	105	82	91	97	101	96	94	92	80
L_{wA} Surrounding dB(A)	109	86	95	101	105	100	98	96	84
Measurement point: 33120 m³/h; 1800 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	69	78	84	88	83	81	79	67
L_{wA} Surrounding dB(A)	94	71	80	86	90	85	83	81	69
Measurement point: 24984 m³/h; 830 Pa									

ZRS

Flue-gas fan



- Can be installed without interfering with the chimney pipe
- Easily removable for chimney sweeping
- Insulation material included

Systemair flue-gas fans counteract drafts caused by stoves, ovens and open fireplaces. Flue-gas fans are positioned on the top of the chimney and fixed with four adjustable locating rods which are inserted down the chimney. This means that no fixing into the chimney itself is required. The fan is a discreet and compact unit with a low profile.

Casing
The flue-gas fans have a casing of cast aluminium alloy.

Impeller geometry
The ZRS 170 impeller is made of silumin alloy, while the ZRS 180 impeller is made of stainless steel.

Motor
External rotor motor outside the airstream.

Installation
Fans are supplied with 1 m armoured cable and a junction box. Steel cables are provided to give extra support for the fan during chimney sweeping and similar operations.

The ZRS 170 is suitable for smaller fireplaces with an aperture of less than 0.35 m^2, and the ZRS 180 is intended for fireplaces with an aperture between 0.35 and 0.80 m^2.

You can find more information in our online catalogue on www.systemair.com

Electrical accessories

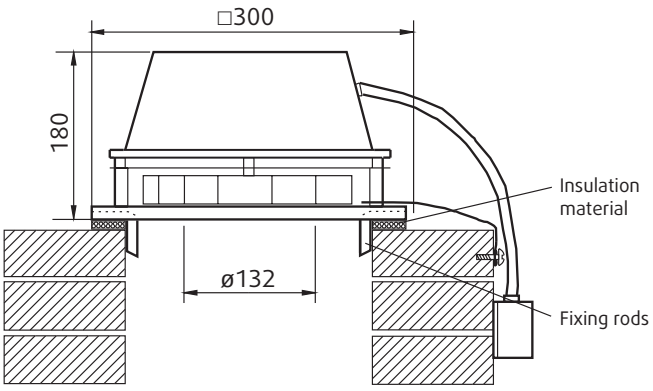


RE
Speed control
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REE
Speed control
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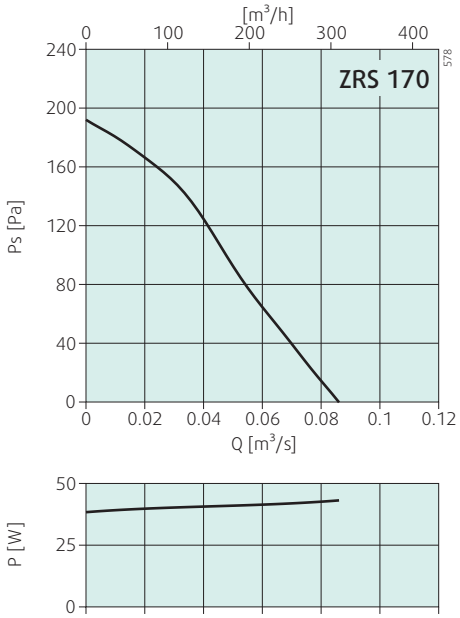
Dimensions

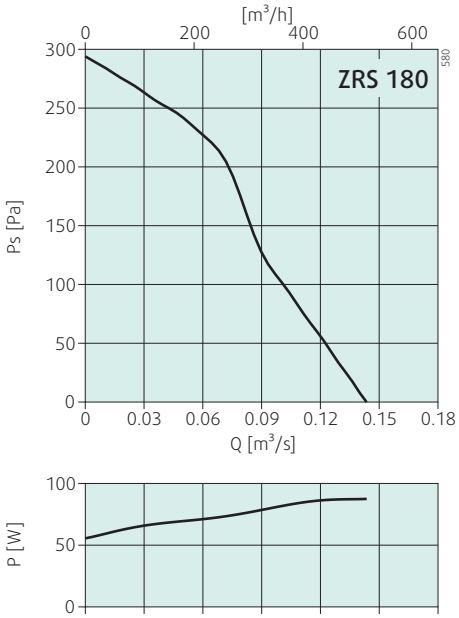


Technical data

ZRS		ZRS 170	ZRS 180
Art. no.		*1665*	*1667*
Voltage	V	230	230
Frequency	Hz	50	50
Phase	~	1	1
Input power (P1)	W	42.9	55.5
Current	A	0.19	0.26
Max. airflow	m^3/h	310	518
Fan impeller speed	r.p.m.	2566	2746
Max. temperature of transported air	°C	200	200
* when voltage-controlled	°C	200	200
Sound pressure level at 10 m (free field)	dB(A)	37	41
Weight	kg	7.3	8.2
Insulation class		F	F
Enclosure class, motor	IP	44	44
Capacitor	µF	1.5	2

Performance

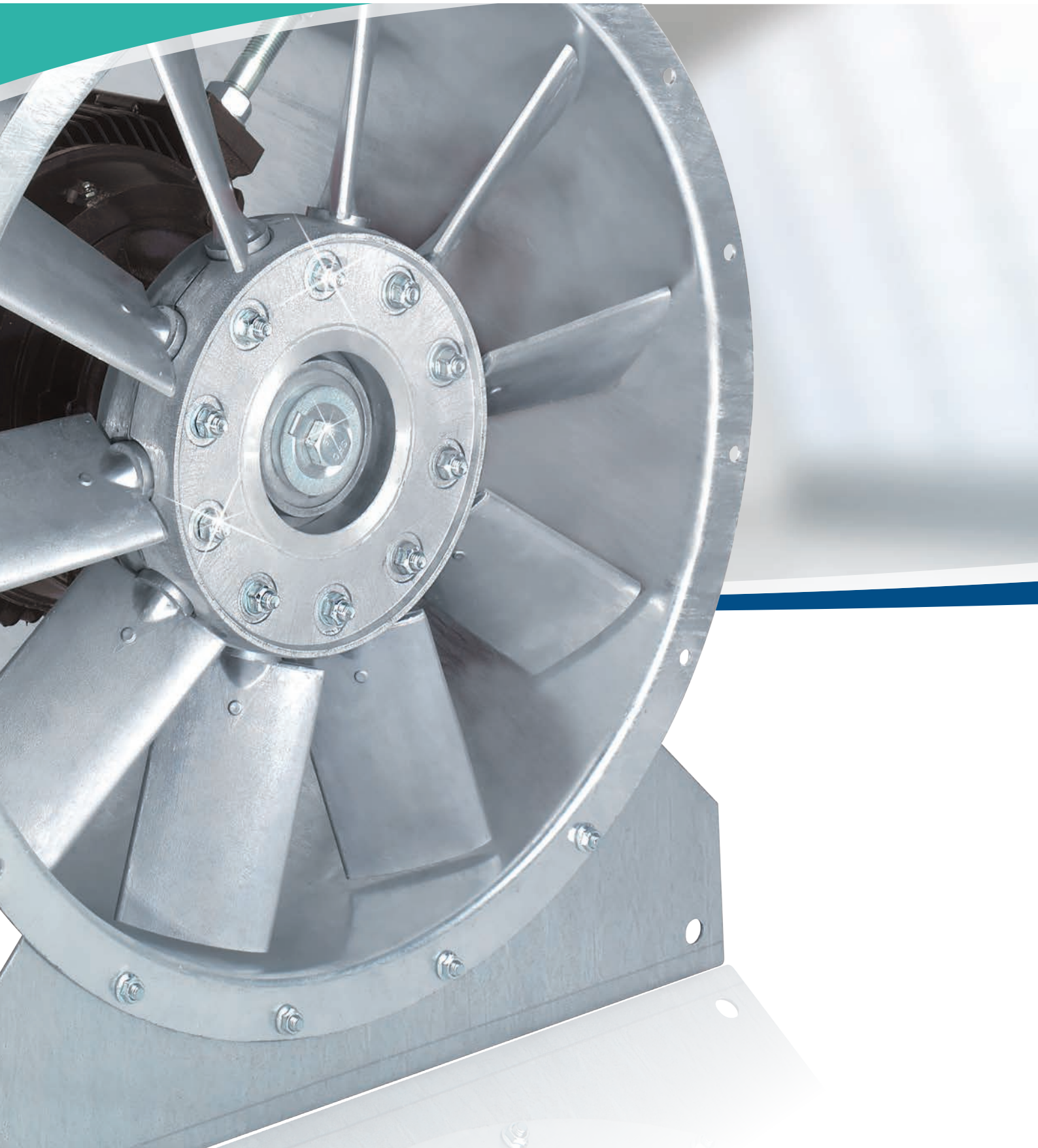




Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	72	54	66	66	67	58	55	46	37
LwA Outlet dB(A)	68	38	64	59	60	61	57	51	41
Measurement point: 67.2 l/s; 46.7 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	64	44	47	60	58	58	54	48	47
LwA Outlet dB(A)	72	42	50	68	62	66	62	58	55
Measurement point: 111 l/s; 75.2 Pa									

Axial fans



Axial fans at their best

No matter how varied your requirements and applications may be, the comprehensive and integrated Systemair axial fan product range will match the challenge. The areas of application range from large shopping centres and underground car parks to tunnels and subterranean rail projects, throughout the world. Safety-relevant applications such as smoke extraction and explosion-protected fans are part of our core expertise.

For our medium pressure axial fans, our selection program is available on www.systemair.com. You can find other axial fans in the sections “Smoke extract fans” and “Explosion proof fans” and in our separate Axial catalogue.

AW EC sileo 266



Low pressure axial wall fan with EC motor, low noise level

AW sileo 272



Low pressure axial wall fan, low noise level

AXC 288



Medium pressure axial fan

AR sileo 276



Axial duct fan, low noise level

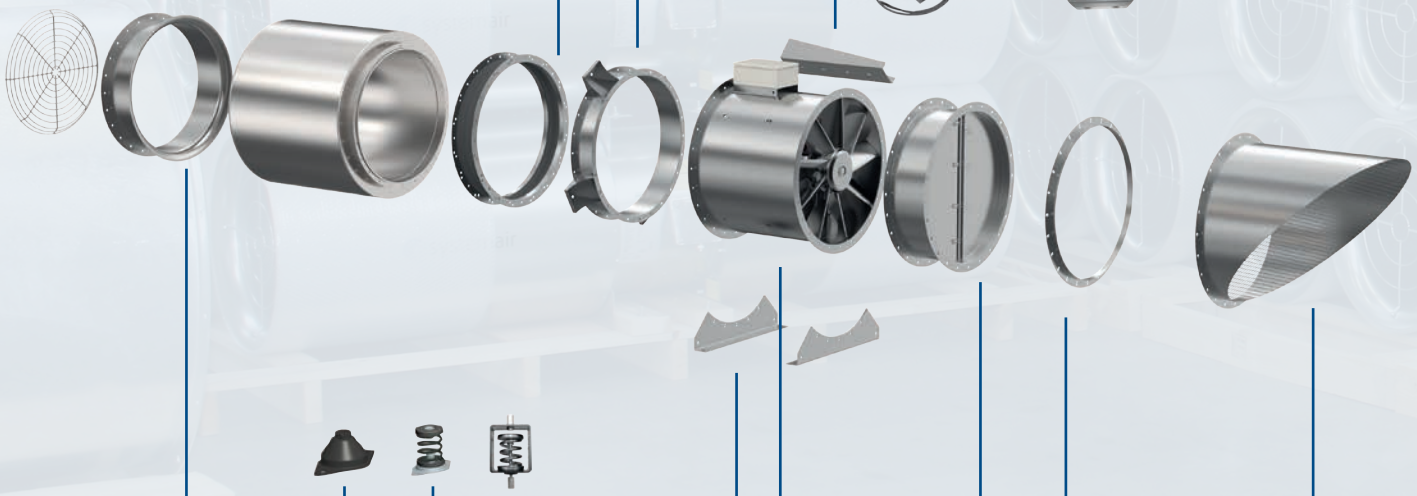
AXCBF 294



Bifurcated axial fan, up to 200°C transported air

System solutions for axial fans

Matched perfectly to your requirements!



SG AR/AXC
Protection guard
Page 557

RSA(F)
Silencer
Page 556

EV -AR/AXC
Flexible connection
Page 563

MP
Mounting brackets (90°)
Page 557

MPR AXC
Mounting ring
Page 559

REV
On/Off switch
Page 510

REV (F)
On/Off switch 400°C/120 min.
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ESD-F AXC
Inlet cone
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SD-AXC
Rubber mounts
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FSD-AXC
Spring mounts
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ZSD
Spring mounts for tensile load
Page 560

MFA-AR/AXC
Mounting feet
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AXC
Axial fan
Page 288

LRK(F)
Automatic shutter
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GFL -AR/AXC
Counterflange
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ABS-AXC
Outlet cowl
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VK
Louvre shutter
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SG-AW-D
Prodtection
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AW EC sileo / AW sileo
Axial fan
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SG-AW
Protection guard
(Sizes 710-1000)
Page 557



AR sileo
Axial fan
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SG
Protection guard
Page 515

GFL
Counter flange
Page 525



VK
Louvre shutter
Page 515

MFA-AR/AXC
Mounting feet
Page 558

SD-AXC
Rubber mounts
Page 560

EV-AR/AXC
Flexible connection
Page 563

AW EC sileo

Axial fan



- Impeller with bionically designed blade geometry
- Can be installed in any mounting position
- Integrated motor protection
- 100% speed controllable

Casing
Square wall plate made from galvanised steel, black powder coated (RAL 9005). Sizes 200-630 include a protection guard on the intake side. Protection guards for the 710-1000 sizes are available as an accessory.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Free running axial impeller made from black high-performance composite material, with bionically designed blade geometry.

Output control
100% controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories

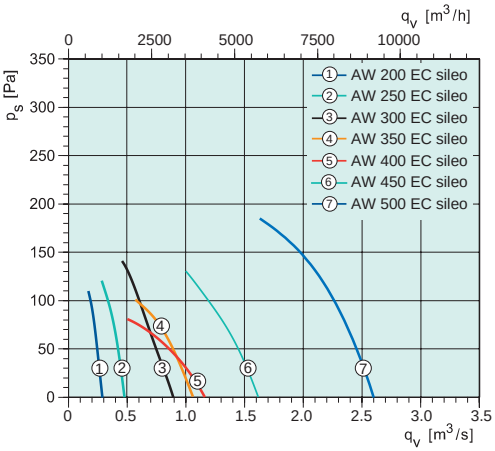


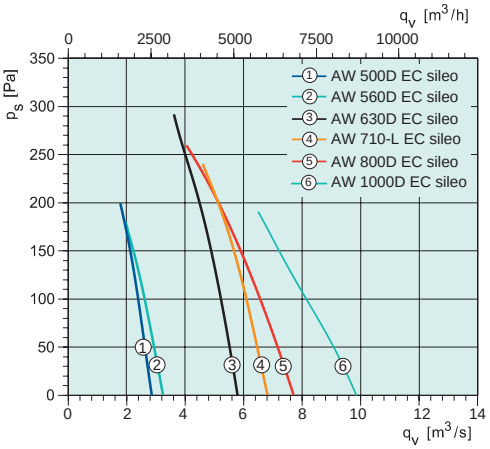
VK
Louvre shutter
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SG AW-D
Protection
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Quick selection





Electrical accessories



EC-Vent/Basic
Speed control
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MTP
Speed control
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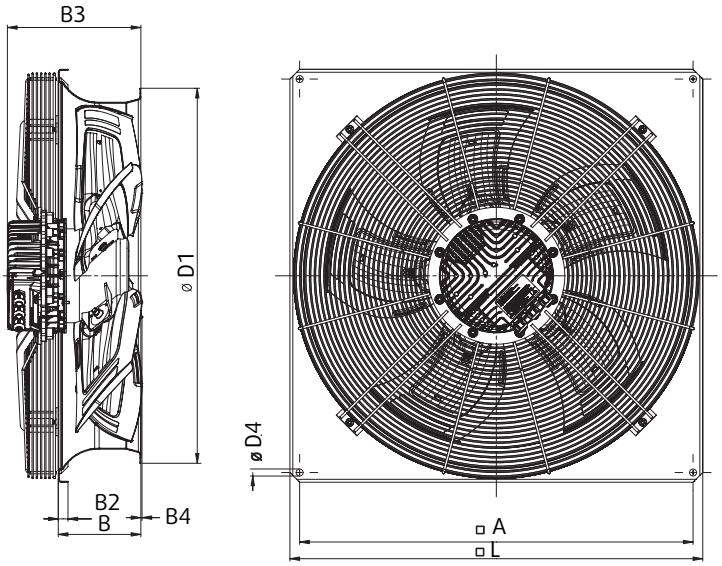


MTV
Speed control
Page 488



REV
Switching device
Page 510

Dimensions



AW EC sileo	□A	B	B2	B3	B4	ØD1	ØD4	□L
200 EC sileo	260	52	6	127	18	203	7	312
250 EC sileo	320	57	6	132	22	260	7	370
300 EC sileo	380	80	11	157	11	327	9	430
350 EC sileo	435	80	12	157	11	388	9	485
400 EC sileo	490	98	12	175	20	419	9	540
450 EC sileo	535	100	14	209	-	468	11	576
500 EC sileo	615	120	16	181	5	517	11	656
500D EC sileo	615	120	16	181	8	517	11	656
560D EC sileo	675	135	16	208	6	576	11	725
630D EC sileo	750	150	20	287	-	696	11	805
710D-L EC sileo	810	170	20	275	2	772	14.5	850
800D EC sileo	910	190	17	267	1	857	14.5	970
1000D EC sileo	1110	225	20	277	12	1063	14.5	1170

Technical data

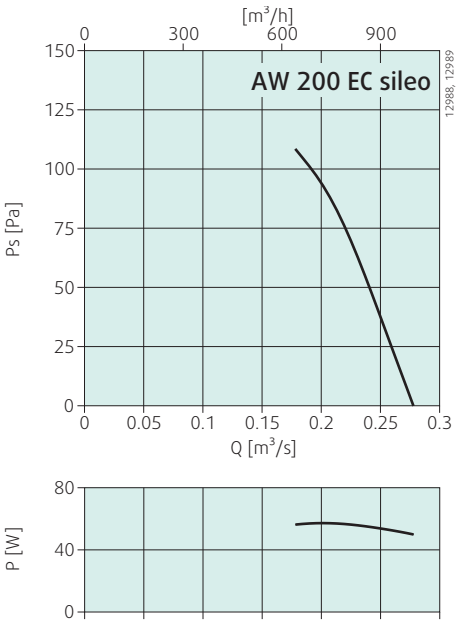
AW EC sileo		AW 200 EC sileo	AW 250 EC sileo	AW 300 EC sileo	AW 350 EC sileo	AW 400 EC sileo
Art. no.		35854	35855	35857	35859	35860
Voltage	V	230	230	230	230	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1
Input power (P1)	W	60	83	170	165	140
Current	A	0.53	0.72	1.35	1.35	1.15
Max. airflow	m^3/h	1001	1710	3179	3730	4077
Fan impeller speed	r.p.m.	2820	2330	2245	1475	1080
Max. temperature of transported air	°C	60	60	60	60	60
Sound pressure level at 1 m	dB(A)	57	67	62	58	55
Weight	kg	3.0	3.7	6.1	6.5	8.9
Insulation class		B	B	F	B	B
Enclosure class, motor	IP	54	54	54	54	54

AW EC sileo		AW 450 EC sileo	AW 500 EC sileo	AW 500D EC sileo	AW 560D EC sileo
Art. no.		35863	35865	35866	35867
Voltage	V	230	230	400	400
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	1	1	3~	3~
Input power (P1)	W	345	750	980	945
Current	A	2.2	3.4	1.6	1.5
Max. airflow	m^3/h	6538	9248	10386	11437
Fan impeller speed	r.p.m.	1300	1420	1610	1360
Max. temperature of transported air	°C	60	60	60	60
Sound pressure level at 1 m	dB(A)	60	67	70	70
Weight	kg	10.5	14.7	16.5	21.8
Insulation class		B	B	B	B
Enclosure class, motor	IP	54	54	54	54

AW EC sileo		AW 630D EC sileo	AW 710D-L EC sileo	AW 800D EC sileo	AW 1000D EC sileo
Art. no.		35872	35876	35879	35899
Voltage	V	400	400	400	400
Frequency	Hz	50/60	50/60	50/60	50/60
Phase	~	3~	3~	3~	3~
Input power (P1)	W	3200	2830	2980	2603
Current	A	5	4.3	4.5	4
Max. airflow	m^3/h	21197	24793	27929	34999
Fan impeller speed	r.p.m.	1510	1260	1090	969
Max. temperature of transported air	°C	65	60	65	70
Sound pressure level at 1 m	dB(A)	79	78	73	78
Weight	kg	41.8	42.9	52.5	61.2
Insulation class		F	F	F	F
Enclosure class, motor	IP	54	54	54	54

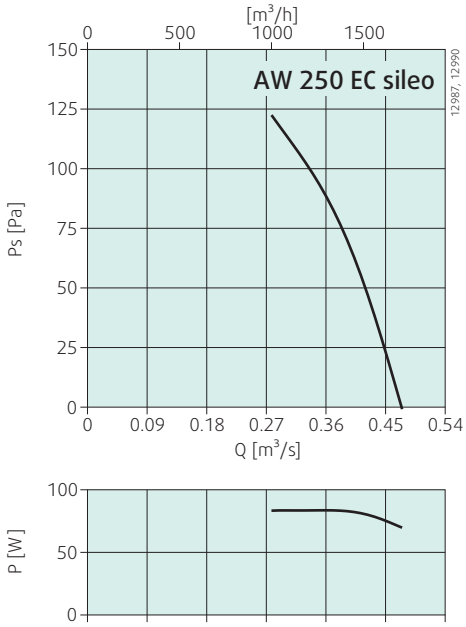


Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	64	32	38	53	53	55	60	59	49

Measurement point: 1001 m^3/h; -0,28 Pa

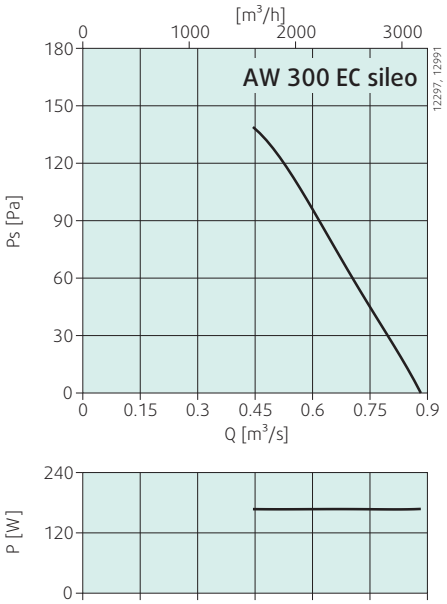


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	27	41	56	58	64	67	65	58

Measurement point: 1709 m^3/h; -0,58 Pa

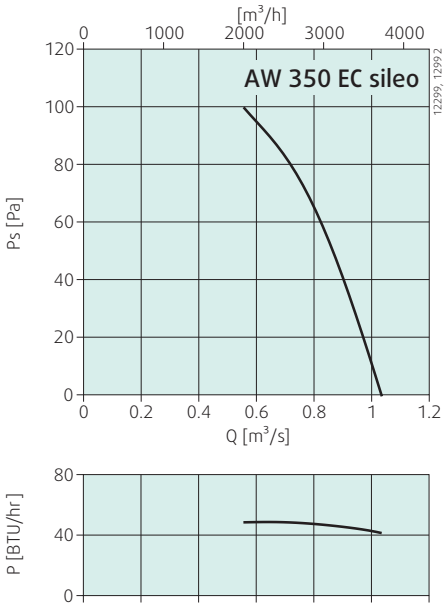


Performance



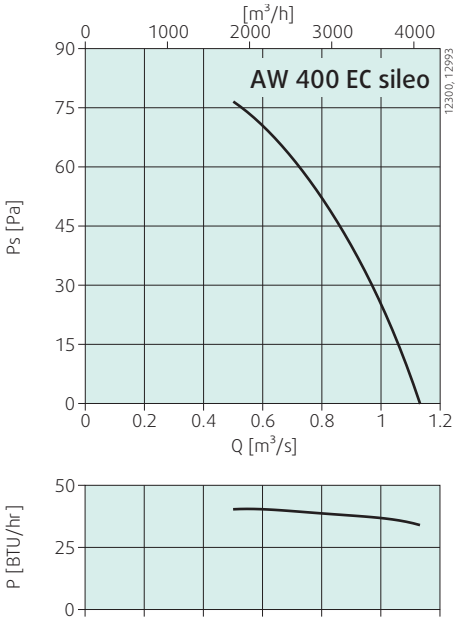
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	37	47	64	65	66	64	62	57

Measurement point: 3176 m³/h; 0,189 Pa



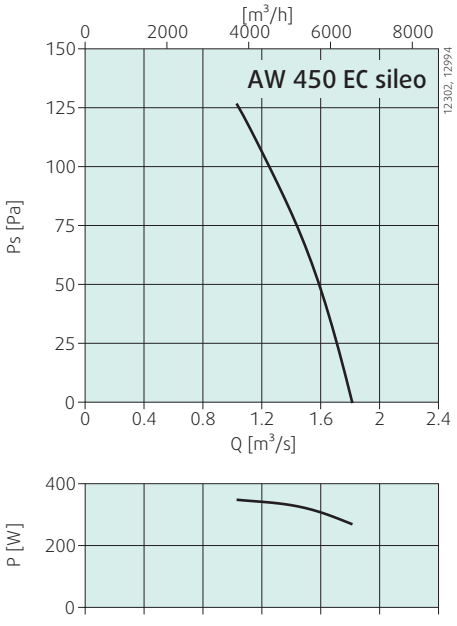
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	37	55	55	62	66	65	62	56

Measurement point: 3728 m³/h; -0,521 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	40	51	58	61	64	64	59	48

Measurement point: 077 m³/h; -0,133 Pa

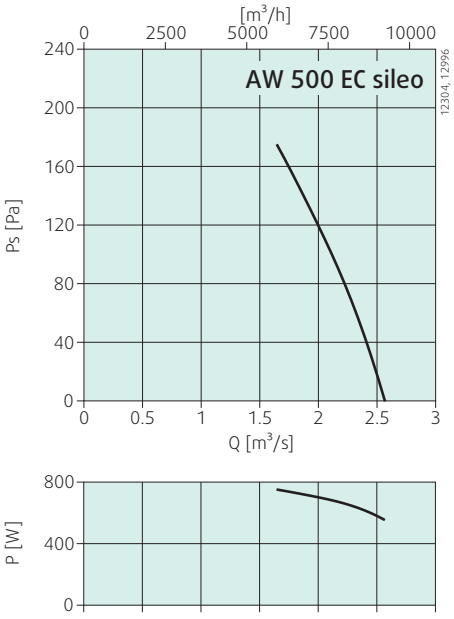


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	40	47	53	59	68	67	65	56

Measurement point: 6536 m³/h; -0,384 Pa

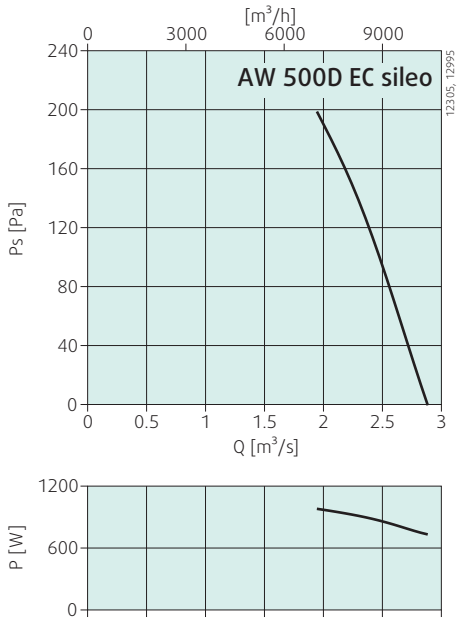


Performance



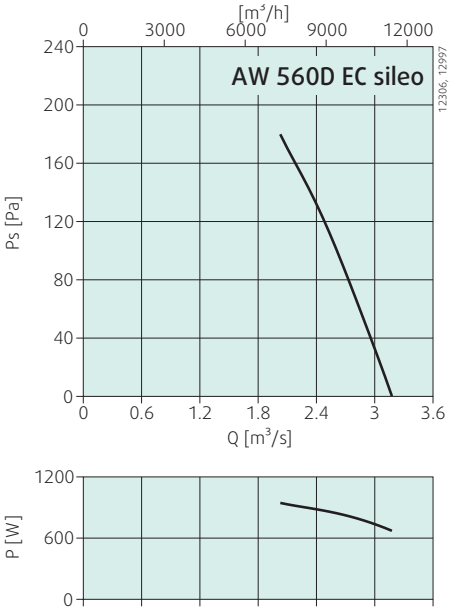
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	37	54	59	66	71	73	72	64

Measurement point: 9247 m³/h; -0,364 Pa



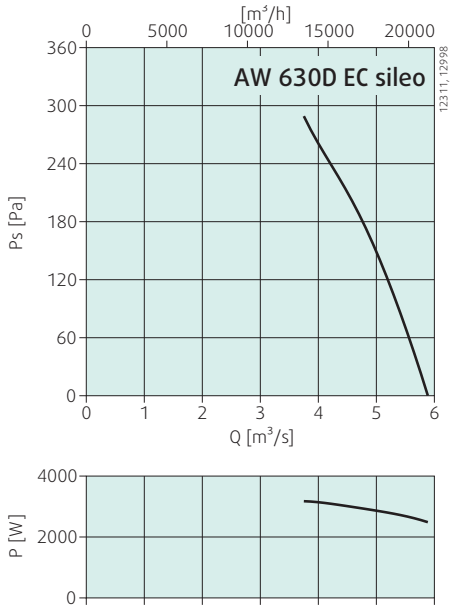
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	38	57	61	68	73	75	75	68

Measurement point: 10385 m³/h; -0,551 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	41	57	61	66	69	69	67	59

Measurement point: 11440 m³/h; 0,0122 Pa

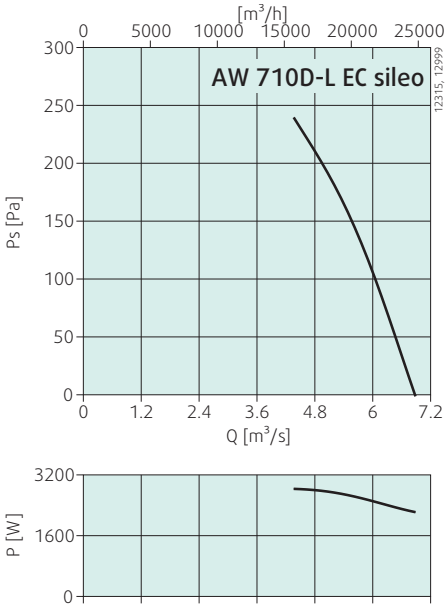


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	47	63	68	75	76	75	71	65

Measurement point: 21195 m³/h; 0,0949 Pa

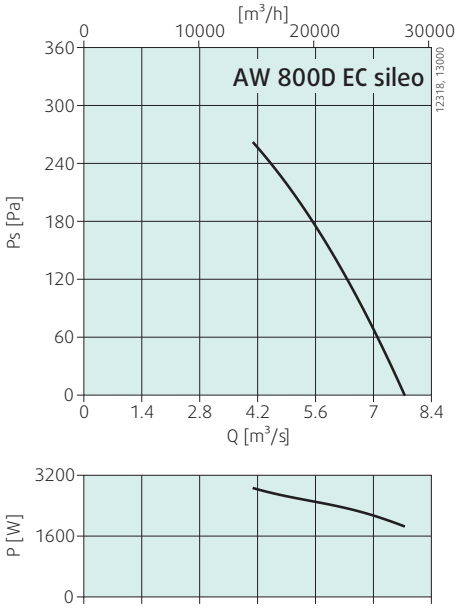


Performance



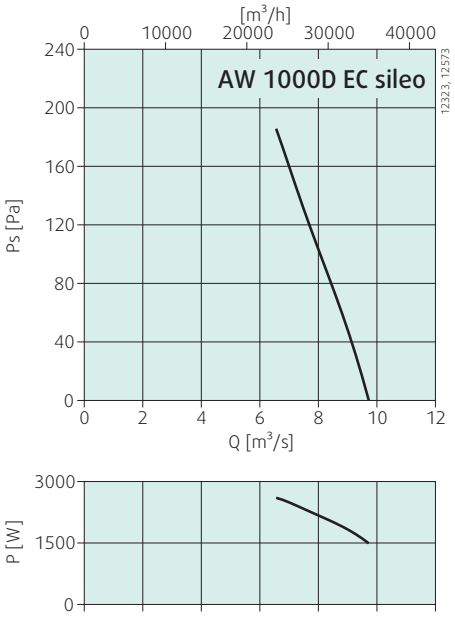
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	43	62	68	73	74	72	70	63

Measurement point: 24793 m³/h; -1,36 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	46	59	63	69	70	70	68	65

Measurement point: 27929 m³/h; -0,56 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	55	63	71	78	79	77	79	70

Measurement point: 35001 m³/h; 0,114 Pa

AW sileo

Axial fan



- Impeller with bionically designed blade geometry which gives lower sound
- Speed controllable
- Terminal box mounted on the motor
- Can be installed in any mounting position

Casing
Square wall plate made from galvanised sheet steel, black powder coated (RAL 9005). Sizes 200-630 include a protection guard on the intake side. Protection guards for the 710-1000 sizes are available as an accessory.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Free running axial impeller made from black high-performance composite material (sizes 200-450K) or aluminium (sizes 450-1000), with bionically designed blade geometry.

Output control
Speed controllable via voltage reduction using a transformer or thyristor. Star-delta operation is possible for 3~/400 V types.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



VK
Louvre shutter
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SG-AW-D
Protection guard
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SG AW
Protection guard
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Electrical accessories



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Motor protection
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STDT
Motor protection
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AWE-SK
Motor protection
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S-DT2 SKT
Speed switch
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RTRD / RTRDU
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REE
Speed control
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RTRE
Speed control
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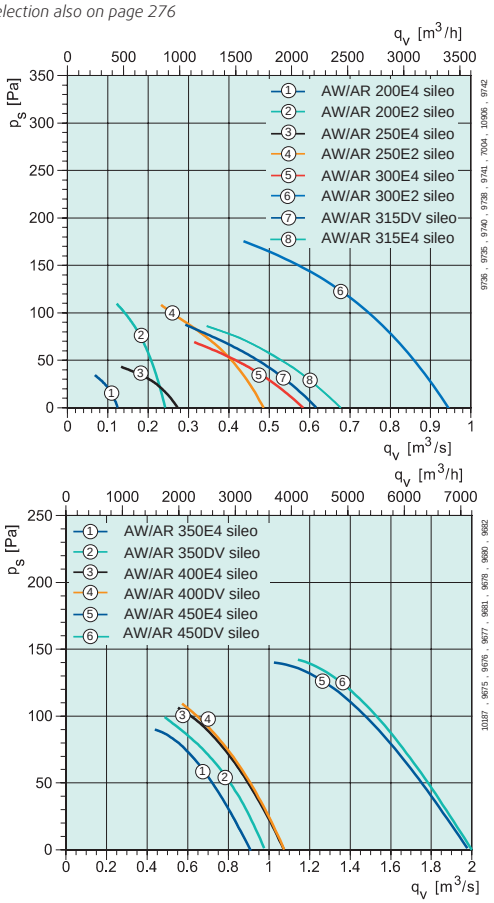
REU
Speed control
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REV
Switching device
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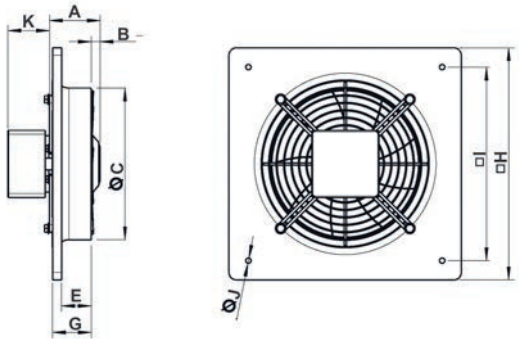
Quick selection

Quick selection also on page 276

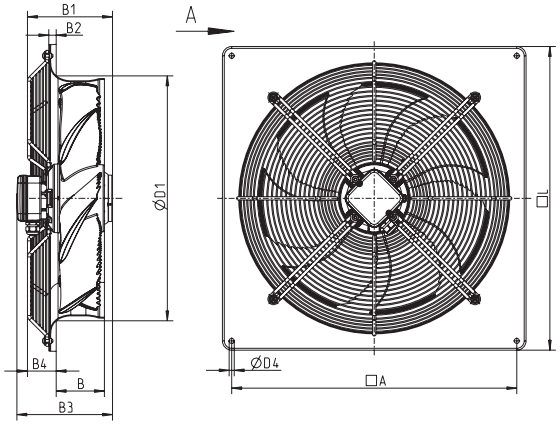


Dimensions

AW 200 sileo - AW 300 sileo



AW 300 sileo - AW 1000 sileo



AW sileo	A	B	ØC	E	G	□H	□I	ØJ	K
AW 200E2, E4	63	11	203	46	52	312	260	7	65
AW 250E2	73	17	260	52	57	370	320	7	65
AW 250E4	63	7	257	51	57	370	320	7	65
AW 300E2	111	25	325	65	77	430	380	9	60

AW sileo	B	B1	ØD1	B2	B3	□A	□L	ØD4
AW 300E4	76	-	327	11	80	380	430	9
AW 315DV	79	83	345	11	73	380	430	9
AW 315E4	72	105	417	12	80	435	485	9
AW 350DV	72	105	417	12	80	435	485	9

AW sileo	□A	B	B1	B2	B3	B4	ØD1	ØD4	□L
AW 400DV, E4	490	88	146	12	182	54	420	9	540
AW 450DV	535	96	171	14	206	47	480	11	575
AW 450E4	535	96	191	14	226	47	480	11	575
AW 500DV, E4	615	104	204	16	226	62	531	11	655
AW 560DV	675	119	223	16	245	60	589	11	725
AW 560E4	675	119	243	16	266	75	589	11	725
AW 630DV	750	130	268	20	271	108	664	11	805
AW 630DS, E6	750	130	207	20	225	52	664	11	805
AW 710DV	810	150	272	20	272	37	763	14.5	850
AW 710DS	810	150	246	20	246	37	763	14.5	850
AW 710E6	810	150	246	20	246	37	763	14.5	850
AW 800DS	910	193	284	17	284	34	869	14.5	970
AW 910DS	1010	220	293	20	293	-	922	14.5	1070
AW 1000DS-L	1110	250	305	20	323	-	1016	14.5	1170

Technical data

AW sileo		AW 200E2 sileo	AW 200E4 sileo	AW 250E2 sileo	AW 250E4 sileo	AW 300E4 sileo
Art. no.		*37402*	*37403*	*37404*	*37405*	*37406*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	87.8	17.9	171	49.6	90.4
Current	A	0.387	0.078	0.744	0.217	0.396
Max. airflow	m^3/h	893	421	1786	1015	1800
Fan impeller speed	r.p.m.	2085	1150	1912	1263	1167
Max. temperature of transported air	°C	65	80	65	55	50
* when voltage-controlled	°C	65	80	65	55	50
Sound pressure level at 1 m	dB(A)	59	46	66	52	56
Weight	kg	3	2.9	4	3.6	4.9
Insulation class		B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44
Capacitor	µF	1.5	1.5	3	1.5	2

Technische Daten

AW sileo		AW 300E2 sileo	AW 315DV sileo	AW 315E4 sileo	AW 350DV sileo	AW 400DV sileo	AW 400E4 sileo
Art. no.		*5801*	*37408*	*37409*	*37410*	*34124*	*34125*
Voltage	V	230	400	230	400	400	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	1	3	3	1
Input power (P1)	W	309	143	216	220	230	240
Current	A	1.35	0.291	0.943	0.407	0.44	1.1
Max. airflow	m^3/h	3413	2390	3305	3301	3870	3863
Fan impeller speed	r.p.m.	2730	1299	1201	1300	1370	1350
Max. temperature of transported air	°C	50	60	65	45	70	65
* when voltage-controlled	°C	50	60	65	45	70	65
Sound pressure level at 1 m	dB(A)	71	62	62	64	64	64
Weight	kg	6.6	5.3	6.8	8.8	8.7	8.7
Insulation class		B	F	F	B	F	F
Enclosure class, motor	IP	44	44	44	44	54	54
Capacitor	µF	8	-	4	-	-	5

AW sileo		AW 450DV sileo	AW 450E4 sileo	AW 500DV sileo	AW 500E4 sileo	AW 560DV sileo	AW 560E4 sileo
Art. no.		*34126*	*37411*	*34131*	*37412*	*34134*	*37413*
Voltage	V	400	230	400	230	400	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	1	3	1	3	1
Input power (P1)	W	540	550	770	727	1044	1157
Current	A	1.1	2.5	1.7	3.2	2.2	5.5
Max. airflow	m^3/h	7195	7116	9141	8878	11339	11930
Fan impeller speed	r.p.m.	1350	1320	1300	1237	1280	1424
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70
Sound pressure level at 1 m	dB(A)	67	66	67	66	74	82
Weight	kg	14.6	16.2	20.1	20	23.5	31.7
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	-	14	-	16	-	25

AW sileo		AW 630DV sileo	AW 630DS sileo	AW 630E6 sileo	AW 710DV sileo	AW 710DS sileo	AW 710E6 sileo
Art. no.		*37415*	*34138*	*37414*	*34140*	*34141*	*34142*
Voltage	V	400	400	230	400	400	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	1	3	3	1
Input power (P1)	W	1935	630	609	2600	1000	950
Current	A	3.41	1.25	2.79	4.9	2.5	4.4
Max. airflow	m^3/h	15926	11215	10624	22575	14596	13892
Fan impeller speed	r.p.m.	1353	900	916	1330	910	850
Max. temperature of transported air	°C	60	70	70	60	70	65
* when voltage-controlled	°C	60	70	70	60	70	65
Sound pressure level at 1 m	dB(A)	78	64	70	76	66	67
Weight	kg	34.2	24.5	26.5	36.5	35.1	35.1
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	-	-	14	-	-	16

AW sileo		AW 800DS sileo	AW 910DS sileo	AW 1000DS sileo	AW 1000DS-L ** sileo
Art. no.		*37416*	*34157*	*34144*	*36148*
Voltage	V	400	400	400	400
Frequency	Hz	50	50	50	50
Phase	~	3	3	3	3
Input power (P1)	W	1648	1950	2700	5597
Current	A	3.67	4.4	5.3	10.6
Max. airflow	m^3/h	22255	27583	36468	48474
Fan impeller speed	r.p.m.	833	880	820	889
Max. temperature of transported air	°C	65	70	70	60
* when voltage-controlled	°C	65	70	70	60
Sound pressure level at 1 m	dB(A)	69	72	72	87
Weight	kg	53	58.1	69.5	109
Insulation class		F	F	F	F
Enclosure class, motor	IP	54	54	54	54
Capacitor	µF	-	-	-	-

AW sileo	Motor protection	Transformator	Thyristor
AW 200E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AW 200E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE1
AW 250E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AW 250E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AW 300E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 2
AW 300E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AW 315DV sileo	STDT	RTRD 2/RTRDU 2	-
AW 315E4 sileo	S-ET	RTRE 1.5/REU 1.5	-
AW 350DV sileo	STDT	RTRD 2/RTRDU 2	-
AW 350E4 sileo	S-ET	RTRE 1.5/REU 1.5	-
AW 400DV sileo	STDT	RTRD 2/RTRDU 2	-
AW 400E4 sileo	S-ET	RTRE 1.5/REU 1.5	-
AW 450E4 sileo	S-ET	RTRE 5/REU 5	-
AW 450DV sileo	STDT	RTRD 2/RTRDU 2	-
AW 500DV sileo	STDT	RTRD 2/RTRDU 2	-
AW 500E4 sileo	S-ET	RTRE 5/REU 5	-
AW 560DV sileo	STDT	RTRD 4/RTRDU 4	-
AW 560E4 sileo	S-ET	RTRE 12/REU 12	-
AW 630DV sileo	STDT	RTRD 4. RTRDU 4	-
AW 630DS sileo	STDT	RTRD 2. RTRDU 2	-
AW 630E6 sileo	S-ET	RTRE 5/REU 5	-
AW 710DV sileo	STDT	RTRD 7/RTRDU 7	-
AW 710DS sileo	STDT	RTRD 4/RTRDU 4	-
AW 710E6 sileo	S-ET	RTRE 5/REU 5	-
AW 800DS sileo	STDT	RTRD 4/RTRDU 4	-
AW 910DS sileo	STDT	RTRD 7/RTRDU 7	-
AW 1000DS sileo	STDT	RTRD 7/RTRDU 7	-
AW 1000DS-L **	STDT	RTRD 14	-

Performance

All characteristic curves of AW sileo range you can find on page 280.

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

AR sileo

Axial fan



- Impeller with bionically designed blade geometry which gives lower sound
- Speed controllable
- Flange compliant with Eurovent 1/2
- Can be installed in any mounting position
- External terminal box on the housing for simple connection

Casing
Circular casing with Eurovent 1/2 compliant flanges made from galvanised steel. Sizes 200-630 include a protection guard on the intake side, black powder coated. Protection guards for the 710-1000 sizes are available as an accessory.

Motor
Voltage controllable external rotor motors.

Impeller geometry
Free running axial impeller made from black high-performance composite material (sizes 200-450K) or aluminium (sizes 450-1000), with bionically designed blade geometry.

Output control
Speed controllable via voltage reduction using a transformer or thyristor. Star-delta operation is possible for 3~/400 V types.

Motor protection
Integrated thermal contacts with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com.

Accessories



EV-AR/AXC
Flex. connection
Page 563



GFL-AR/AXC
Counterflange
Page 562



MFA-AR/AXC
Mounting feet
Page 558



SG AR/AXC
Protection guard
Page 557

Electrical accessories



S-ET
Motor protection
Page 501



STDT
Motor protection
Page 501



AWE-SK
Motor protection
Page 500



S-DT2 SKT
Speed switch
Page 480



RTRD / RTRDU
Speed control
Page 485



REE
Speed control
Page 487



RTRE
Speed control
Page 484



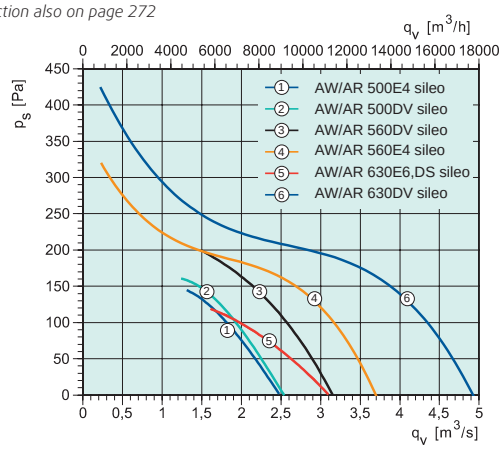
REU
Speed control
Page 484

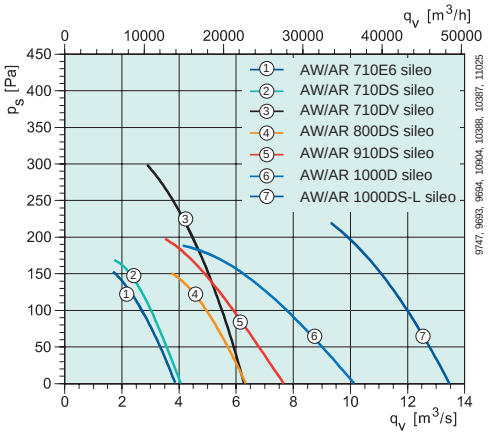


REV
Switching device
Page 510

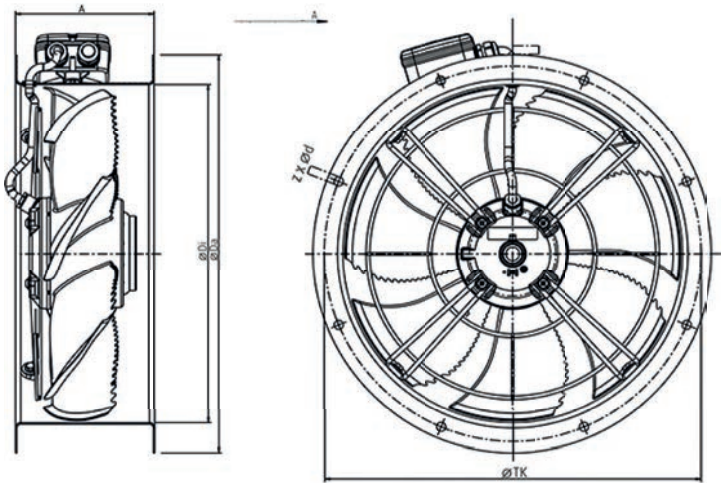
Quick selection

Quick selection also on page 272





Dimensions



AR sileo	A	B	C	ØDi	ØDa	z x Ød	ØTK
AR 200E2, E4 sileo	135	-	-	200	250	4 x Ø7	225
AR 250E2, E4 sileo	135	-	-	257	305	4 x Ø7	280
AR 300E2, E4 sileo	135	-	-	320	382	8 x Ø9.5	356
AR 315E4, DV sileo	135	-	-	320	382	8 x Ø9.5	356
AR 350E4, DV sileo	135	-	-	360	423	8 x Ø9,5	395
AR 400E4, DV sileo	155	-	-	400	480	8 x Ø12	450
AR 450E4, DV sileo	160	-	-	451	530	8 x Ø12	500
AR 500E4, DV sileo	205	-	-	503	590	12 x Ø12	560
AR 560E4, DV sileo	235	-	-	559	650	12 x Ø11.5	620
AR 630E6, DS, DV sileo	235	-	-	634	720	12 x Ø11.5	690
AR 710E6, DV, DS sileo	260	-	-	711	800	16 x Ø11.5	770
AR 800DS sileo	280	-	-	797	890	16 x Ø11.5	860
AR 900DS sileo	330	-	-	914	1005	16 x Ø14.5	970
AR 1000DS sileo	330	-	-	1001	1105	16 x Ø14.5	1070

Technical data

AR sileo		AR 200E2 sileo	AR 200E4 sileo	AR 250E2 sileo	AR 250E4 sileo	AR 300E2 sileo	AR 300E4 sileo
Art. no.		*37374*	*37375*	*37376*	*37377*	*34461*	*37378*
Voltage	V	230	230	230	230	230	230
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	1	1	1	1	1
Input power (P1)	W	87.8	17.9	171	49.6	260	90.4
Current	A	0.387	0.078	0.744	0.217	1.14	0.396
Max. airflow	m^3/h	893	425	1786	1015	2848	1800
Fan impeller speed	r.p.m.	2085	1140	1912	1263	2592	1167
Max. temperature of transported air	°C	65	80	65	40	50	50
* when voltage-controlled	°C	65	80	65	40	50	50
Sound pressure level at 1 m	dB(A)	59	46	66	52	64	56
Weight	kg	3.2	3.9	4.2	4	5.3	5.9
Insulation class		B	B	B	B	B	F
Enclosure class, motor	IP	44	44	44	44	44	44
Capacitor	µF	1.5	0.5	3	1.5	8	2

AR sileo		AR 315E4 sileo	AR 315DV sileo	AR 350E4 sileo	AR 350DV sileo	AR 400E4 sileo	AR 400DV sileo
Art. no.		*37379*	*37380*	*37381*	*37382*	*37383*	*37384*
Voltage	V	230	400	230	400	230	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	1	3	1	3
Input power (P1)	W	145	143	216	220	240	230
Current	A	0.655	0.291	0.943	0.407	1.1	0.46
Max. airflow	m^3/h	2117	2412	3305	3301	3863	3870
Fan impeller speed	r.p.m.	1350	1299	1201	1300	1340	1360
Max. temperature of transported air	°C	65	60	65	45	65	70
* when voltage-controlled	°C	65	60	65	45	65	70
Sound pressure level at 1 m	dB(A)	59	62	62	62	64	64
Weight	kg	6.5	7.1	7.5	7.6	8.7	8.7
Insulation class		F	B	F	B	F	F
Enclosure class, motor	IP	44	44	44	44	54	54
Capacitor	µF	3	-	5	-	5	-

AR sileo		AR 450E4 sileo	AR 450DV sileo	AR 500E4 sileo	AR 500DV sileo	AR 560E4 sileo	AR 560DV sileo
Art. no.		*37385*	*37386*	*37387*	*37388*	*37389*	*37390*
Voltage	V	230	400	230	400	230	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	1	3	1	3
Input power (P1)	W	600	540	727	770	1157	1050
Current	A	2.9	1.1	3.2	1.7	5.5	2.2
Max. airflow	m^3/h	7290	7159	8878	9141	11930	11339
Fan impeller speed	r.p.m.	1390	1350	1237	1300	1424	1280
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	70	70	70	70	70
Sound pressure level at 1 m	dB(A)	67	67	66	67	82	74
Weight	kg	17	15.4	18.6	18.6	31.7	23.2
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	14	-	16	-	25	-

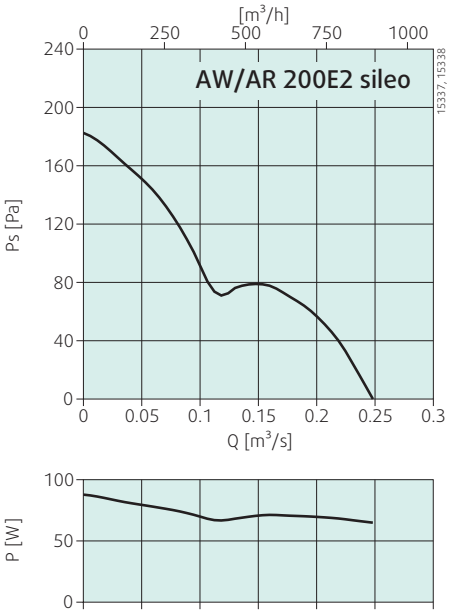
AR sileo		AR 630E6 sileo	AR 630DV sileo	AR 630DS sileo	AR 710E6 sileo	AR 710DV sileo	AR 710DS sileo
Art. no.		*37391*	*37392*	*37393*	*34482*	*34483*	*34484*
Voltage	V	230	400	400	230	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	3	1	3	3
Input power (P1)	W	600	1950	620	950	2600	1000
Current	A	2.8	3.4	1.25	4.4	4.9	2.5
Max. airflow	m^3/h	10600	15930	11215	13892	22575	14596
Fan impeller speed	r.p.m.	920	1350	900	850	1330	910
Max. temperature of transported air	°C	70	60	70	65	60	70
* when voltage-controlled	°C	70	60	70	65	60	70
Sound pressure level at 1 m	dB(A)	70	78	64	67	76	66
Weight	kg	25	34.2	24.5	36.2	38	36.2
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54	54
Capacitor	µF	14	-	-	16	-	-

AR sileo		AR 800DS sileo	AR 910DS sileo	AR 1000DS sileo	AR 1000DS-L **		
Art. no.		*37418*	*34486*	*34487*	*36147*		
Voltage	V	400	400	400	400		
Frequency	Hz	50	50	50	50		
Phase	~	3	3	3	3		
Input power (P1)	W	1648	1950	2700	5597		
Current	A	3.67	4.4	5.3	10.6		
Max. airflow	m^3/h	22255	27583	36468	48474		
Fan impeller speed	r.p.m.	833	880	820	889		
Max. temperature of transported air	°C	65	70	70	60		
* when voltage-controlled	°C	65	70	70	60		
Sound pressure level at 1 m	dB(A)	69	72	72	87		
Weight	kg	49.3	60.9	76.9	98		
Insulation class		F	F	F	F		
Enclosure class, motor	IP	54	54	54	54		
Capacitor	µF	-	-	-			

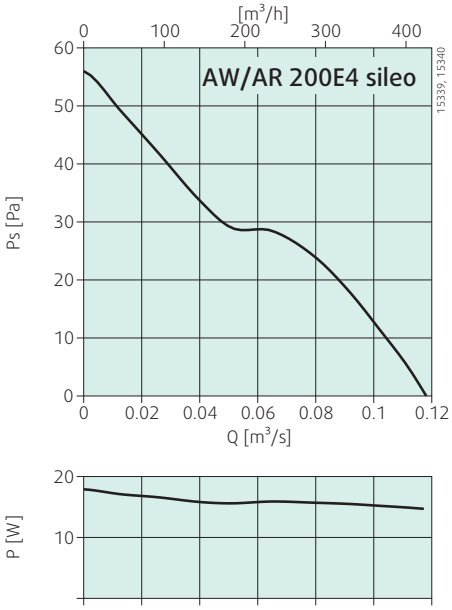
AR sileo	Motor protection	Transformator	Thyristor
AR 200E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 200E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE1
AR 250E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 250E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 300E2 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 300E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 315DV sileo	STDT	RTRD 2/RTRDU 2	-
AR 315E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 350DV sileo	STDT	RTRD 2/RTRDU 2	-
AR 350E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 1
AR 400DV sileo	STDT	RTRD 2/RTRDU 2	-
AR 400E4 sileo	S-ET	RTRE 1.5/REU 1.5	REE 2
AR 450DV sileo	STDT	RTRD 2/RTRDU 2	-
AR 450E4 sileo	S-ET	RTRE 3/REU 3	REE 4
AR 500DV sileo	STDT	RTRD 2/RTRDU 2	-
AR 500E4 sileo	S-ET	RTRE 5/REU 5	REE 4
AR 560DV sileo	STDT	RTRD 4/RTRDU 4	–
AR 560E4 sileo	S-ET	RTRE 7/REU 7	–
AR 630DV sileo	STDT	RTRD 4. RTRDU 4	–
AR 630DS sileo	STDT	RTRD 2. RTRDU 2	–
AR 630E6 sileo	S-ET	RTRE 5/REU 5	REE 4
AR 710DV sileo	STDT	RTRD 7/RTRDU 7	–
AR 710DS sileo	STDT	RTRD 4/RTRDU 4	-
AR 710E6 sileo	S-ET	RTRE 5/REU 5	REE 4
AR 800DS sileo	STDT	RTRD 4/RTRDU 4	–
AR 910DS sileo	STDT	RTRD 7/RTRDU 7	-
AR 1000DS sileo	STDT	RTRD 7/RTRDU 7	–
AR 1000DS-L **	STDT	RTRD 14	–

(**) Only for use outside the EEA (European Economic Area), see Ecodesign regulation 327/2011

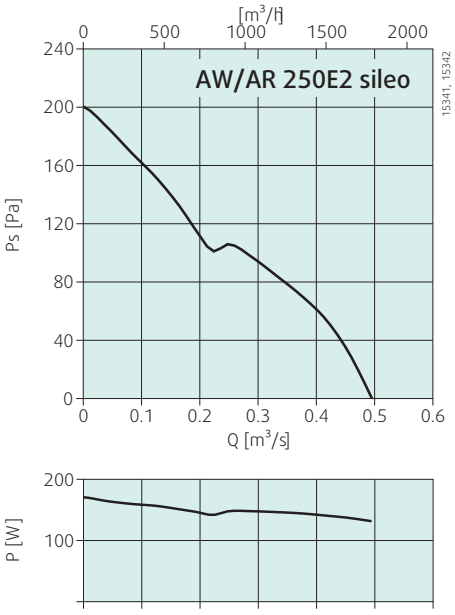
Performance



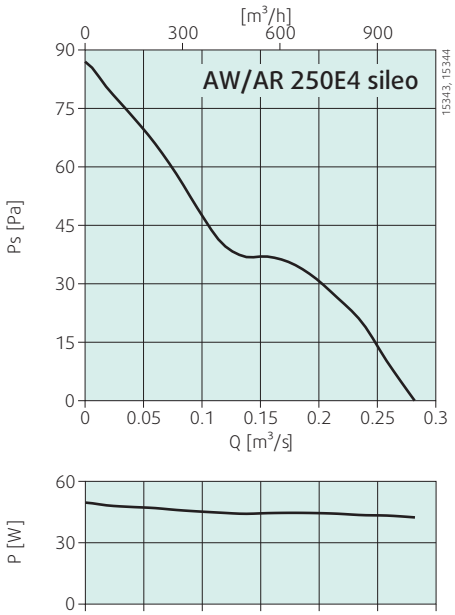
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	36	47	54	56	58	61	59	53
L_{wA} Outlet dB(A)	65	34	46	54	56	58	61	59	52
Measurement point: 570 m³/h; 90,6 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	51	28	39	40	43	47	44	40	30
L_{wA} Outlet dB(A)	51	26	38	41	43	47	44	40	29
Measurement point: 322 m³/h; 26,2 Pa									

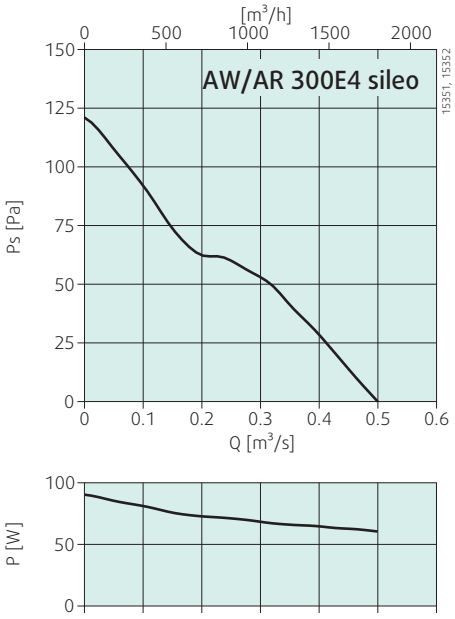


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	39	50	59	62	64	67	64	55
L_{wA} Outlet dB(A)	71	37	50	60	62	65	67	63	54
Measurement point: 1097 m³/h; 86,5 Pa									

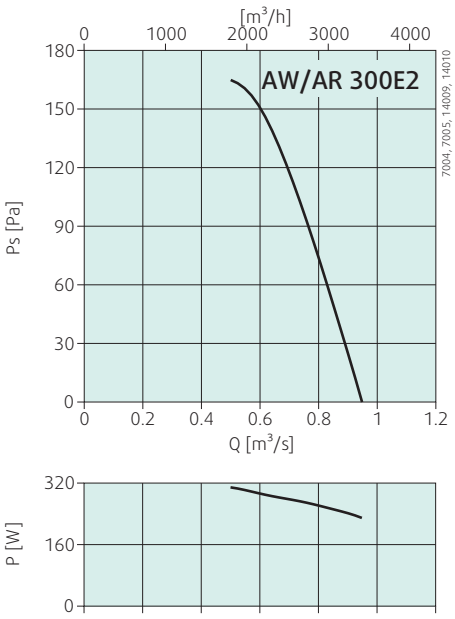


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	59	30	46	48	51	53	54	50	40
L_{wA} Outlet dB(A)	59	29	47	47	50	53	54	49	39
Measurement point: 707 m³/h; 31,4 Pa									

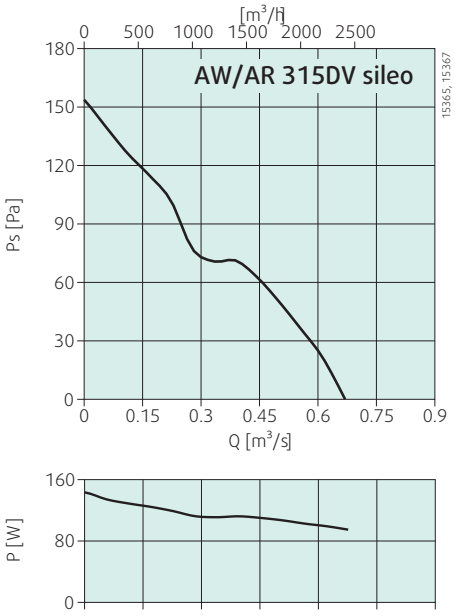
Performance



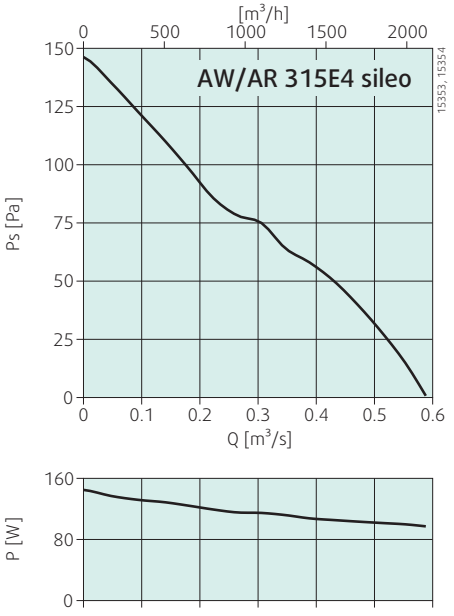
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	39	48	51	54	55	59	54	42
L_{wA} Outlet dB(A)	62	37	48	52	53	55	59	53	41
Measurement point: 1423 m³/h; 54,4 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	-	50	69	78	76	77	75	69
L_{wA} Outlet dB(A)	79	70	71	72	72	71	69	65	61
Measurement point: 3340 m³/h; 10,8 Pa									

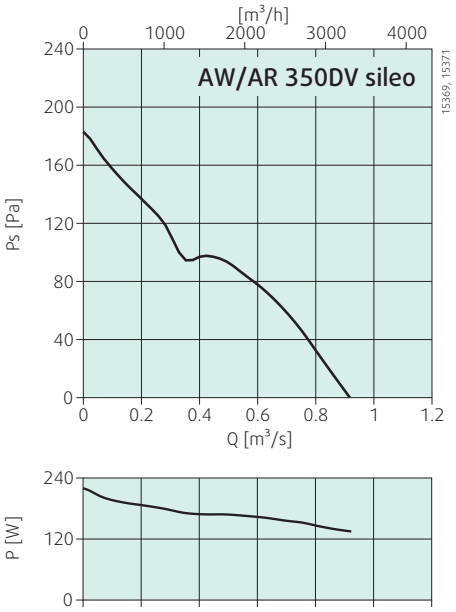


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	49	54	53	57	62	64	61	52
L_{wA} Outlet dB(A)	68	47	53	55	58	62	64	61	50
Measurement point: 1326 m³/h; 73,5 Pa									

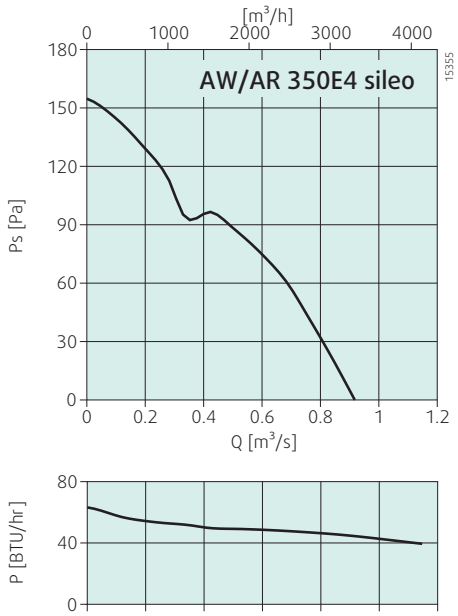


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	39	55	58	59	60	60	54	44
L_{wA} Outlet dB(A)	66	39	55	58	58	60	60	54	44
Measurement point: 1564 m³/h; 71,8 Pa									

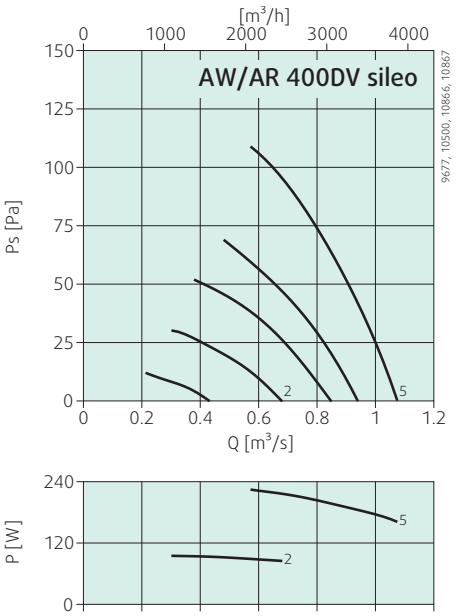
Performance



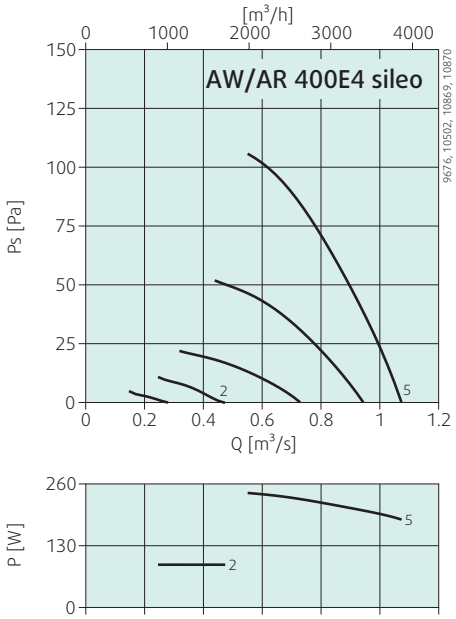
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	50	53	55	61	64	65	60	53
L_{wA} Outlet dB(A)	70	49	52	56	62	64	65	60	51
Measurement point: 2133 m³/h; 87,8 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	65	40	52	53	60	58	60	54	46
L_{wA} Outlet dB(A)	65	39	51	55	58	58	60	53	45
Measurement point: 1991 m³/h; 79.8 Pa									

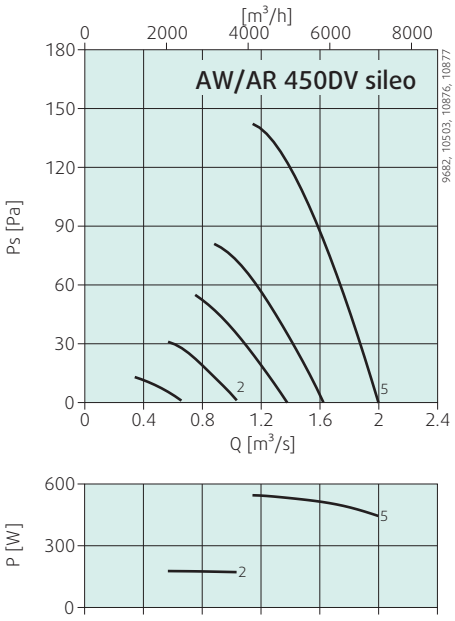


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	49	57	58	61	63	63	58	50
L_{wA} Outlet dB(A)	69	47	56	60	61	65	63	58	48
Measurement point: 2440 m³/h; 95,8 Pa									



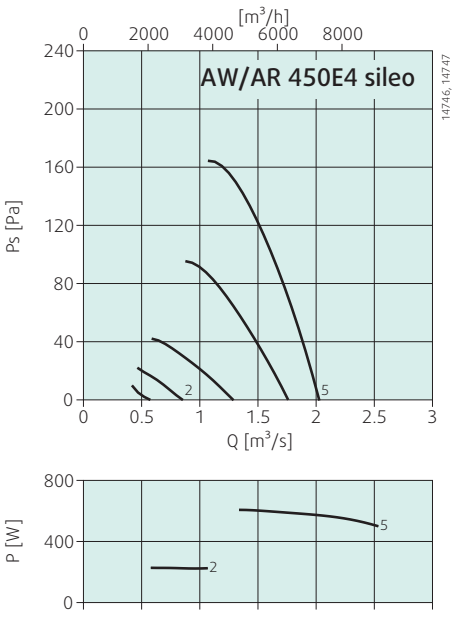
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	48	56	59	60	63	62	57	50
L_{wA} Outlet dB(A)	69	46	56	60	61	65	63	57	48
Measurement point: 2495 m³/h; 90,4 Pa									

Performance



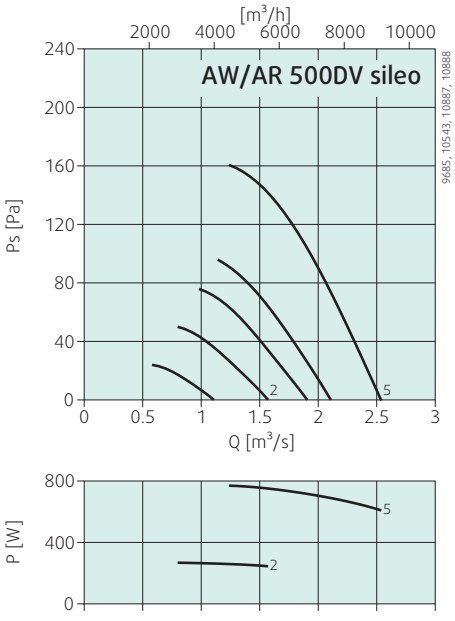
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	47	54	57	62	65	65	60	52
L_{wA} Outlet dB(A)	70	49	55	59	63	65	65	60	51

Measurement point: 4636 m³/h; 133 Pa



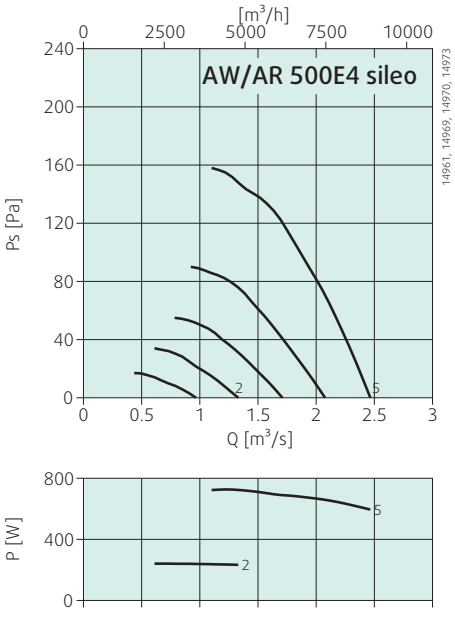
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	42	53	63	61	64	64	60	52
L_{wA} Outlet dB(A)	69	46	54	62	62	63	63	59	51

Measurement point: 4776 m³/h; 120 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	43	53	55	60	66	67	62	53
L_{wA} Outlet dB(A)	70	45	53	59	62	65	66	61	52

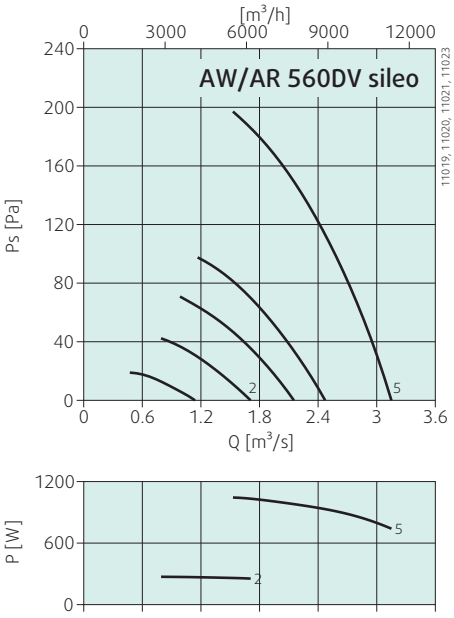
Measurement point: 6333 m³/h; 122 Pa



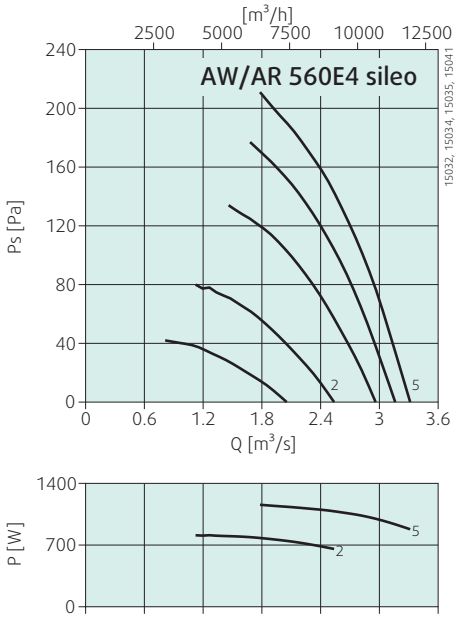
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	45	59	59	60	67	69	62	51
L_{wA} Outlet dB(A)	72	45	60	60	61	67	68	61	51

Measurement point: 5795 m³/h; 123 Pa

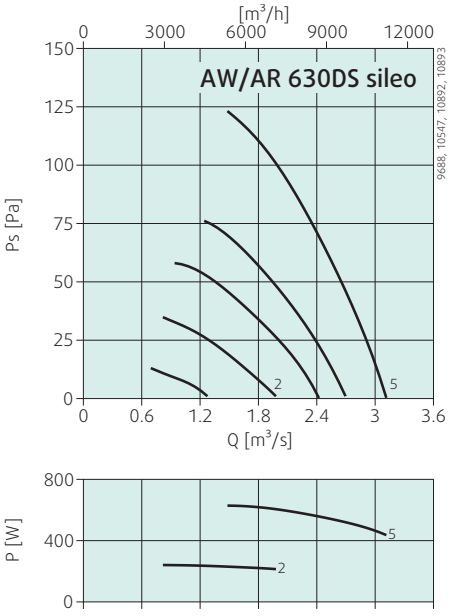
Performance



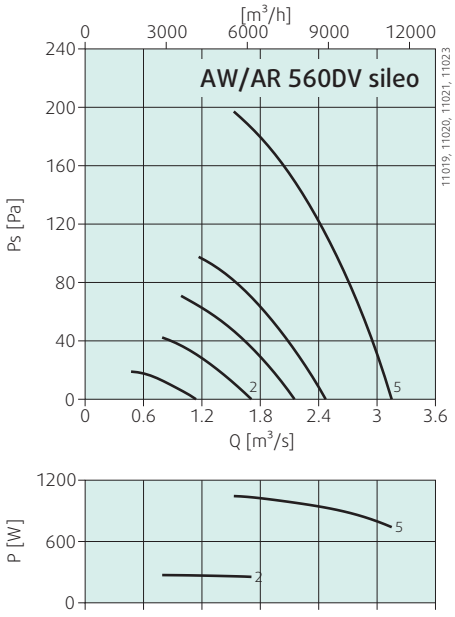
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	41	63	66	71	74	75	72	64
L_{wA} Outlet dB(A)	80	41	63	66	71	74	75	72	64
Measurement point: 7883 m³/h; 146 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	84	31	47	60	70	79	80	76	65
L_{wA} Outlet dB(A)	83	30	48	61	70	78	80	75	65
Measurement point: 6076 lm³/h; 206 Pa									

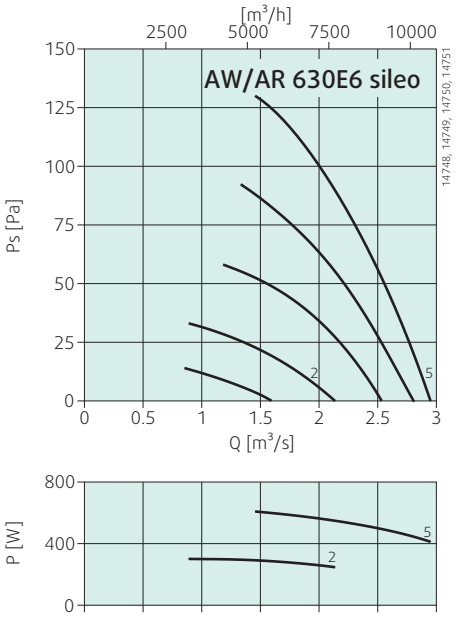


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	50	54	58	63	67	66	60	53
L_{wA} Outlet dB(A)	71	50	54	58	63	67	65	60	52
Measurement point: 6472 m³/h; 111 Pa									

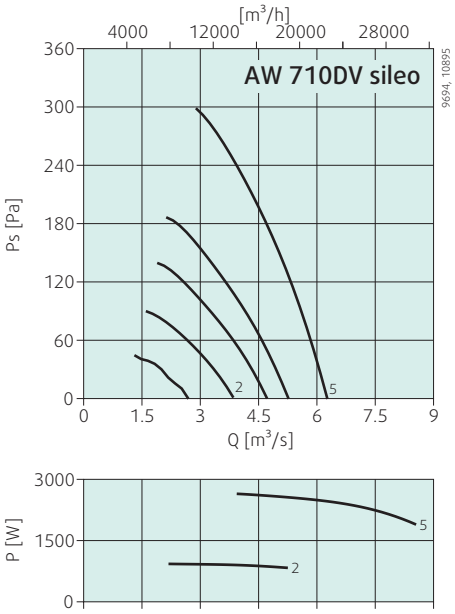


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	36	49	61	71	78	80	74	65
L_{wA} Outlet dB(A)	82	36	51	64	71	78	78	74	65
Measurement point: 11930 m³/h; 247 Pa									

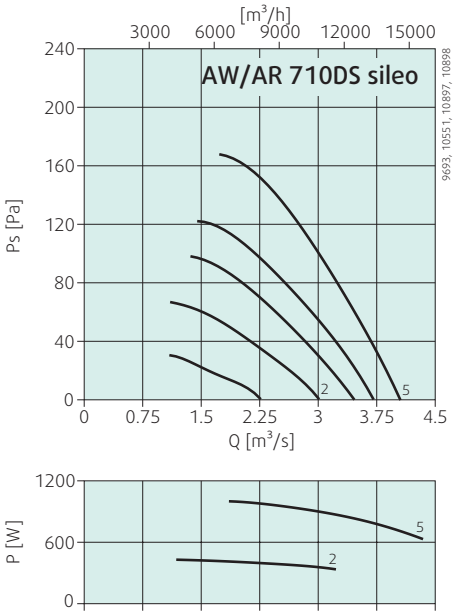
Performance



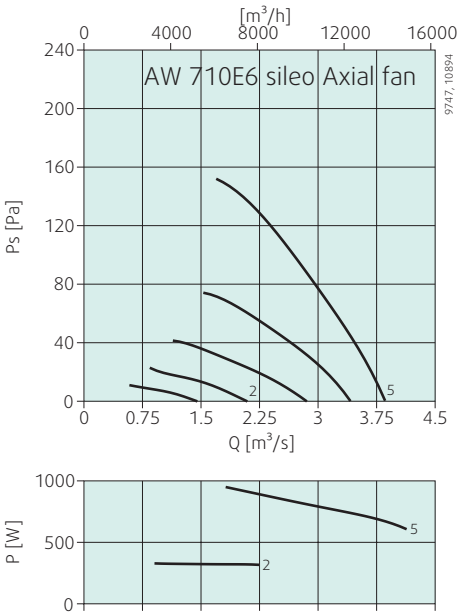
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	48	55	65	65	68	68	61	53
L_{wA} Outlet dB(A)	74	49	56	67	68	70	65	60	53
Measurement point: 7048 m³/h; 102 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	51	64	67	72	77	77	73	66
L_{wA} Outlet dB(A)	81	52	64	69	73	76	75	72	66
Measurement point: 15870 m³/h; 204 Pa									

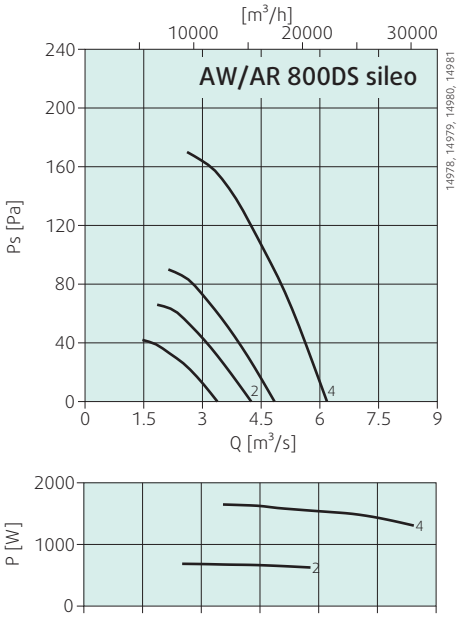


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	45	55	61	65	69	67	61	52
L_{wA} Outlet dB(A)	72	46	55	61	65	68	64	59	52
Measurement point: 10178 m³/h; 115 Pa									

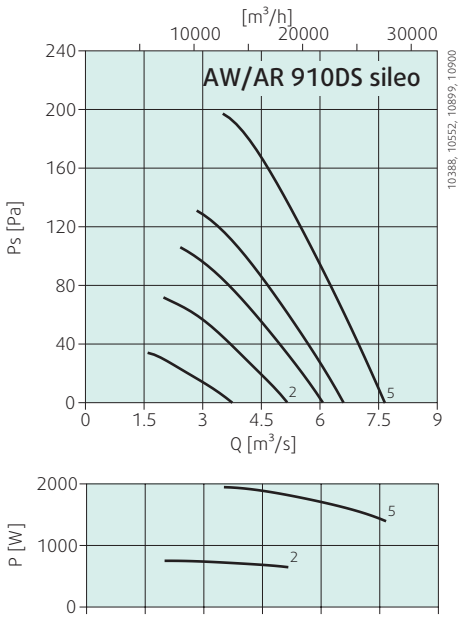


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	52	62	65	67	70	68	62	57
L_{wA} Outlet dB(A)	74	52	62	65	67	70	65	61	55
Measurement point: 8953 m³/h; 114 Pa									

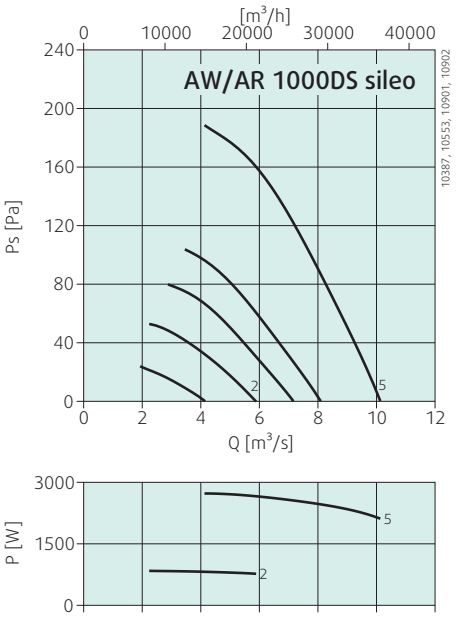
Performance



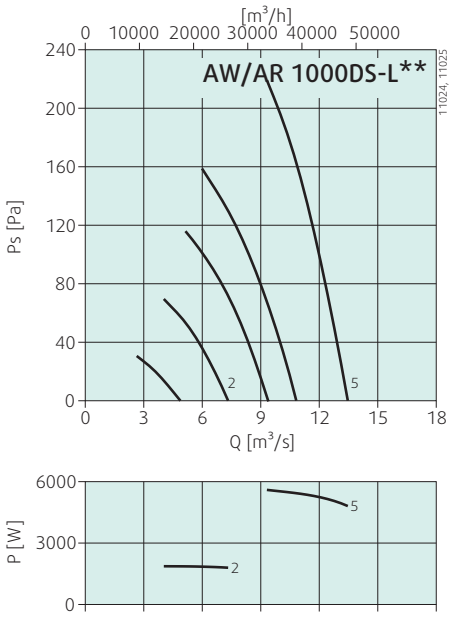
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	50	63	70	73	75	73	68	62
L_{wA} Outlet dB(A)	80	50	63	70	73	75	73	69	62
Measurement point: 16859 m³/h; 115 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	56	62	72	73	73	71	69	61
L_{wA} Outlet dB(A)	79	57	62	71	74	73	70	68	60
Measurement point: 18039 m³/h; 144 Pa									

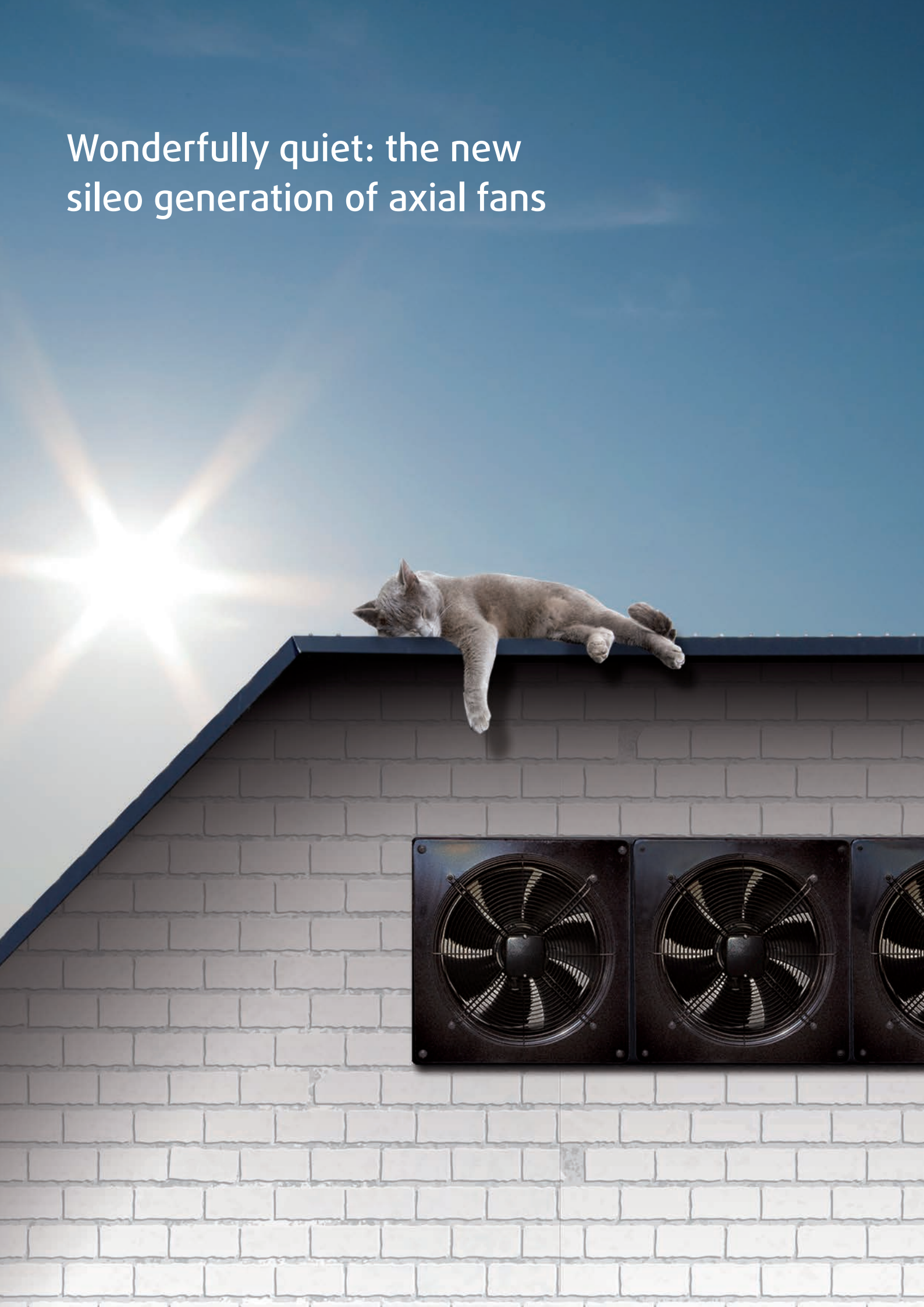


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	58	63	71	72	74	72	68	64
L_{wA} Outlet dB(A)	79	58	63	71	73	74	70	67	64
Measurement point: 22727 m³/h; 149 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	34	54	75	82	87	88	86	76
L_{wA} Outlet dB(A)	93	36	57	75	83	88	88	87	78
Measurement point: 31356 m³/h; 241 Pa									

Wonderfully quiet: the new sileo generation of axial fans



AXC

Axial fan



- With aerodynamic impeller, blade pitch angle adjustable
- Hub and blades made from cast aluminium alloy
- External terminal box for easy electrical connection, IP65
- Suitable for transported air temperatures between -20 °C and +55 °C in continuous operation
- Inspection opening to verify direction of rotation (up to a rated diameter of 1,600 mm)

Accessories



ESD-F
Inlet flange
Page 562



EV-AR/AXC
Flex. connection
Page 563



FSD-AXC
Spring AV mount
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK(F)
Autom. shutter
Page 561



MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



SD-AXC
Rubber AV mount
Page 560



MP-AXC
Mounting brackets
Page 557



SG AR/AXC
Protection guard
Page 557



ZSD
Spring AV mount
Page 560



MPR AXC
Mounting ring
Page 559



ABS AXC
Weather cowl
Page 561

Electrical accessories



REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490



FC102
Frequency inverter
Page 492

The Systemair AXC/AXR series of medium pressure long-cased axial fans are available in rated diameters from 315 to 2,240 mm (larger diameters available on request). The adjustable pitch enables flexible and precise adjustment of the airflow to the desired operating point. The AXC/AXR axial fans have been performance-tested on the Systemair fan test rig, in accordance with DIN ISO 5801 and AMCA 210-07 (reversible AXR version available on request).

Highly efficient impellers

The aerodynamically-shaped impellers made from cast aluminium alloy with flexible blade solidities provide optimum efficiency. A range of different blade/hub configurations enables high operating pressures. AXR impellers are reversible.

Casing

The casing is manufactured from galvanised steel in accordance with DIN EN ISO 1461. The flanges pressed onto both sides in accordance with Eurovent 1/2 provide additional stability. Long casing as standard, short-cased and sound-insulated options available.

Motors

The IEC standard three-phase motors correspond to the currently efficiency classification valid within the EU. IP55 degree of protection, insulation class F, according to EN 60034-5/IEC 85. The motors are equipped with PTC thermistors for optimum motor protection. Available as single and two speed motors (switchable poles). Speed control of the standard motors is possible using a frequency inverter.

Two-stage fans

Two axial fans mounted in series for extract air and supply air in garages, or to enable higher operating pressures.

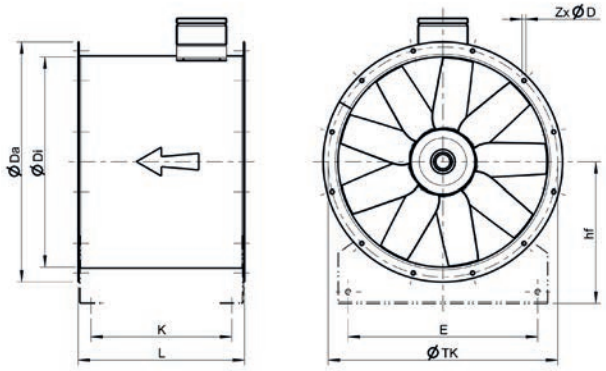
Quality

Systemair is certified according to ISO 9001:2008 and ISO 14001:2004. Systemair's quality system is regularly monitored by TÜV Süd.

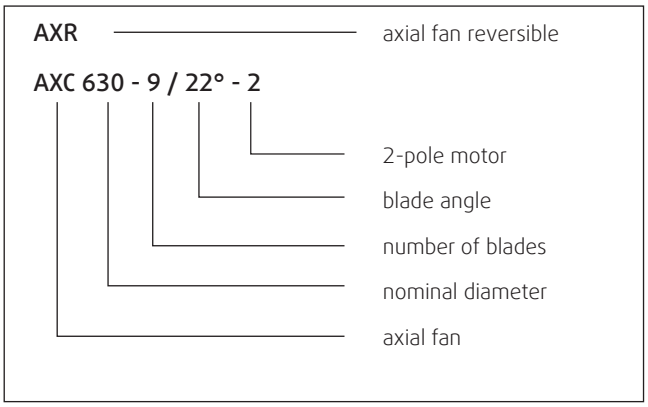


Two-stage fan

Dimensions



Type code



AXC	øDi	øDa	øTk	øD	L	hF	E	K
AXC 315	315	395	355	8x10	425	235	265	360
AXC 355	355	435	395	8x10	425	250	305	360
AXC 400	400	480	450	8x12	450	280	350	385
AXC 450	450	530	500	8x12	500	315	400	435
AXC 500	500	590	560	12x12	540	335	440	464
AXC 560	560	650	620	12x12	500/750	375	500	424/674
AXC 630	630	720	690	12x12	500/750	425	570	424/674
AXC 710	710	800	770	16x12	500/700/800	450	650	424/624/722
AXC 800	800	890	860	16x12	500/700	530	730	414/614
AXC 900	900	1005	970	16x15	640/850	560	830	552/762
AXC 1000	1000	1105	1070	16x15	640/850	670	930	552/762
AXC 1200	1120	1260	1190	20x15	700/1000	710	1030	612/910
AXC 1250	1250	1390	1320	20x15	850/1050	800	1180	740/938

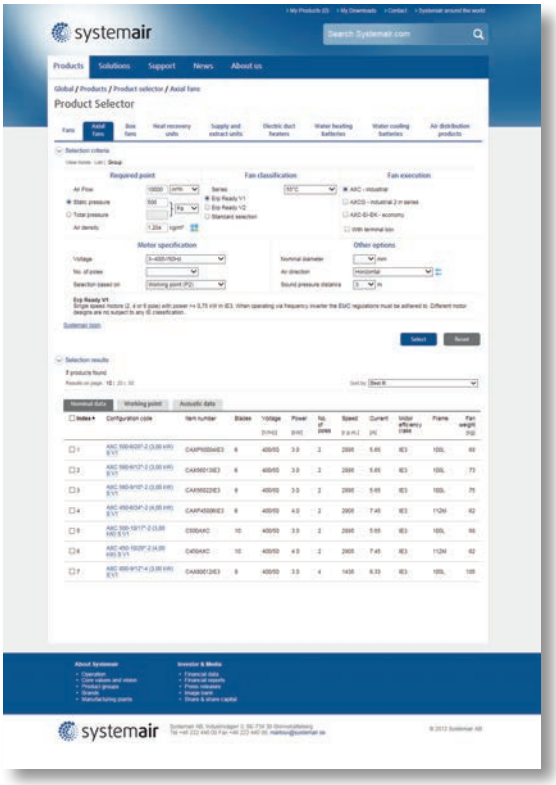
* Dimension L+K depending on motor size.

AXC axial fan product selector

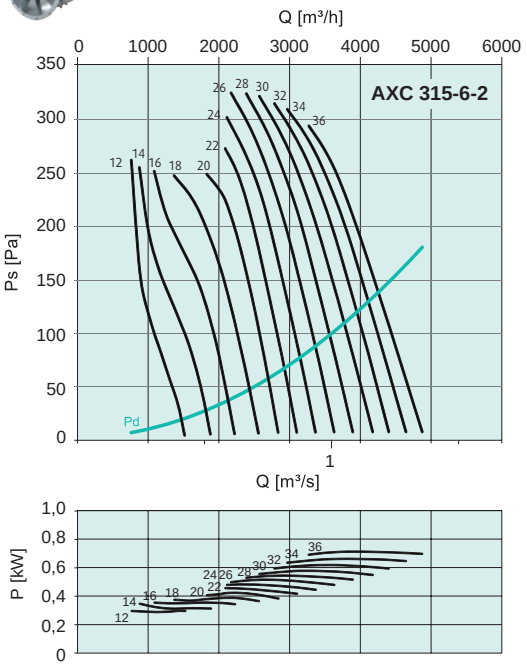
With the Systemair product selector for axial fans, we made it very easy for you to find the right fan for your specific application.

You will find it on www.systemair.com.

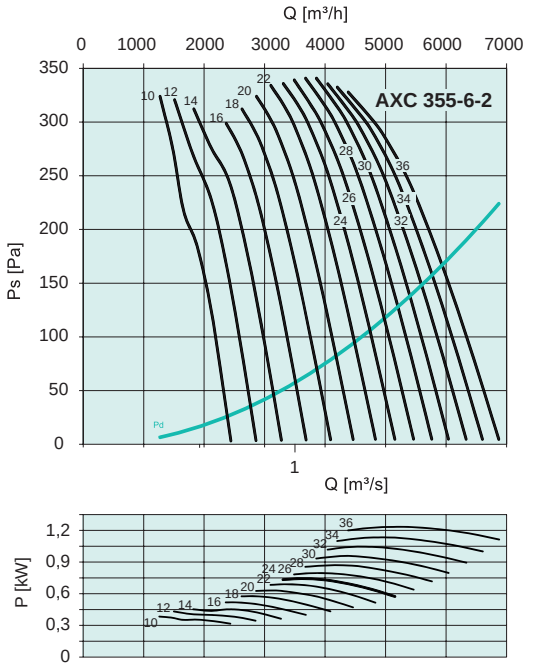
Another advantage: No installation is required for the Systemair product selector; it is freely available online.



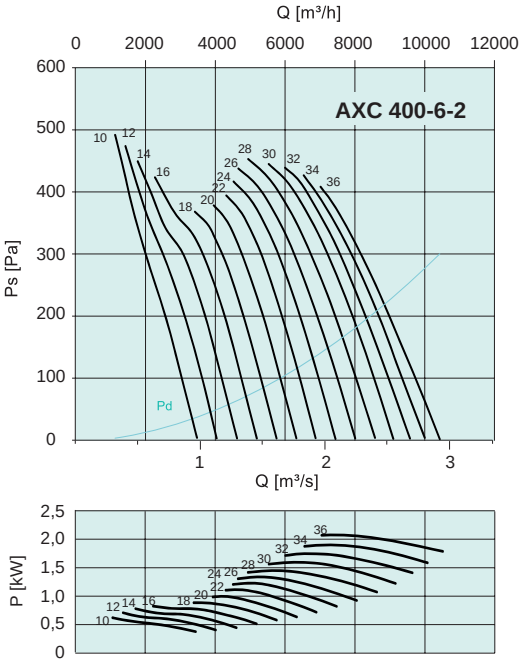
Performance



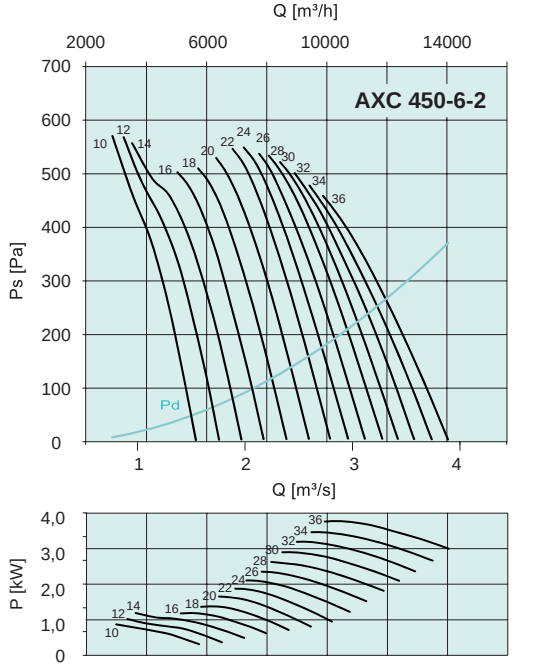
Article no.	Size *
CAXP31501IE3	AXC 315-6-2 (0,75kW IE3)



Article no.	Size *
CAXP35501IE3	AXC 355-6-2 (0.75kW IE3)
CAXP35502IE3	AXC 355-6-2 (1.1kW IE3)
CAXP35503IE3	AXC 355-6-2 (1.5kW IE3)



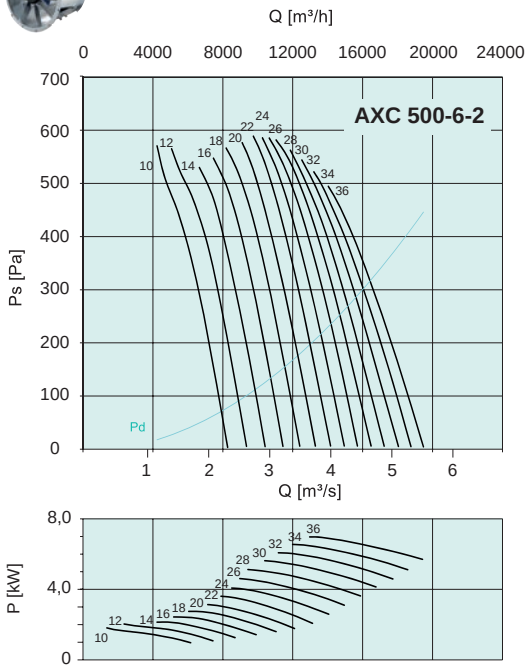
Article no.	Size *
CAXP40001IE3	AXC 400-6-2 (0.75kW IE3)
CAXP40002IE3	AXC 400-6-2 (1.1kW IE3)
CAXP40003IE3	AXC 400-6-2 (1.5kW IE3)
CAXP40004IE3	AXC 400-6-2 (2.2kW IE3)



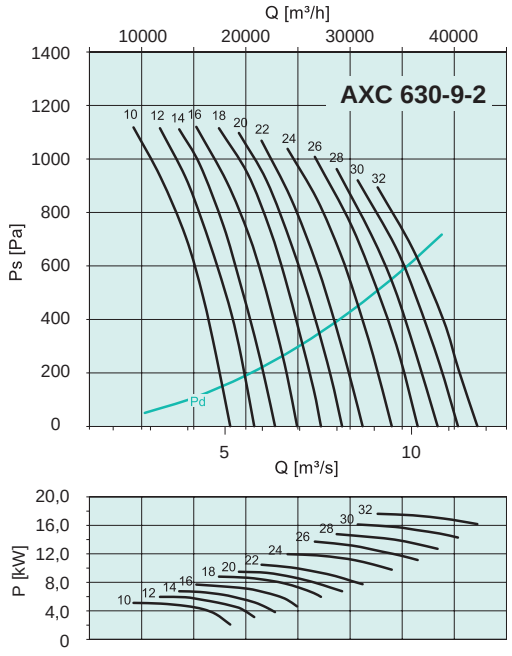
Article no.	Size *
CAXP45001IE3	AXC 450-6-2 (0.75kW IE3)
CAXP45002IE3	AXC 450-6-2 (1.1kW IE3)
CAXP45003IE3	AXC 450-6-2 (1.5kW IE3)
CAXP45004IE3	AXC 450-6-2 (2.2kW IE3)
CAXP45005IE3	AXC 450-6-2 (3.0kW IE3)
CAXP45006IE3	AXC 450-6-2 (4.0kW IE3)

** More models and motor versions in our online selection program!*

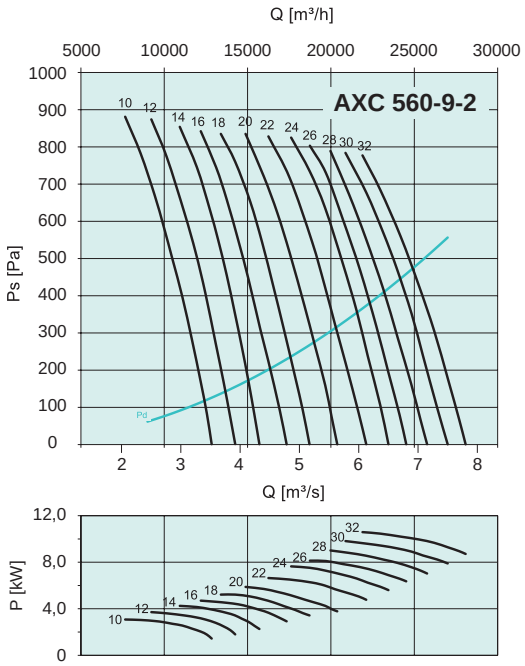
Performance



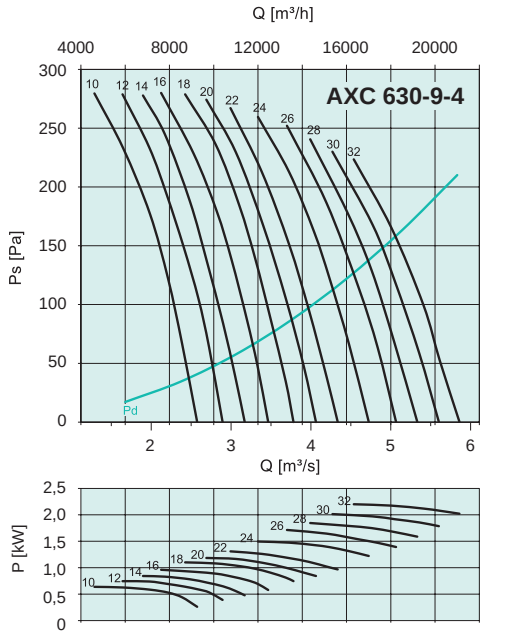
Article no.	Size *
CAXP50001IE3	AXC 500-6-2 (1.1kW IE3)
CAXP50002IE3	AXC 500-6-2 (1.5kW IE3)
CAXP50003IE3	AXC 500-6-2 (2.2kW IE3)
CAXP50004IE3	AXC 500-6-2 (3.0kW IE3)
CAXP50005IE3	AXC 500-6-2 (4.0kW IE3)
CAXP50006IE3	AXC 500-6-2 (5.5kW IE3)
CAXP50007IE3	AXC 500-6-2 (7.5kW IE3)



Article no.	Size *
CAX63017IE3	AXC 630-9-2 (2.2kW IE3)
CAX63018IE3	AXC 630-9-2 (3kW IE3)
CAX63019IE3	AXC 630-9-2 (4kW IE3)
CAX63020IE3	AXC 630-9-2 (5.5kW IE3)
CAX63021IE3	AXC 630-9-2 (7.5kW IE3)
CAX63022IE3	AXC 630-9-2 (11kW IE3)
CAX63023IE3	AXC 630-9-2 (15kW IE3)
CAX63024IE3	AXC 630-9-2 (18.5kW IE3)



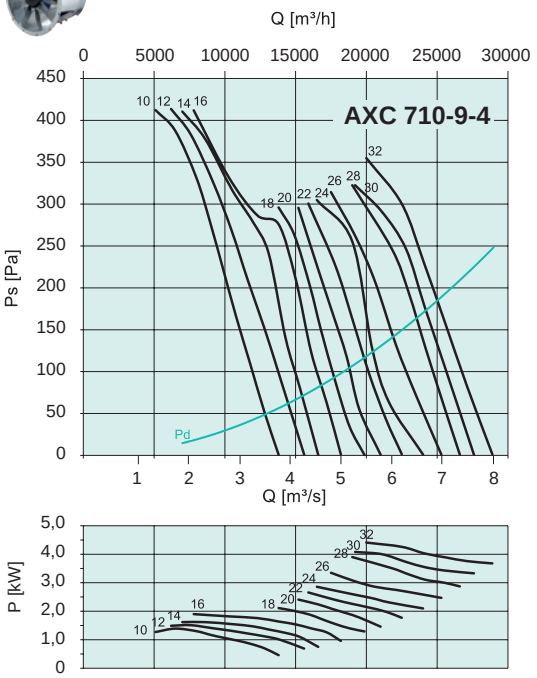
Article no.	Size *
CAX56019IE3	AXC 560-9-2 (1.1kW IE3)
CAX56020IE3	AXC 560-9-2 (1.5kW IE3)
CAX56021IE3	AXC 560-9-2 (2.2kW IE3)
CAX56022IE3	AXC 560-9-2 (3.0kW IE3)
CAX56023IE3	AXC 560-9-2 (4.0kW IE3)
CAX56024IE3	AXC 560-9-2 (5.5kW IE3)
CAX56025IE3	AXC 560-9-2 (7.5kW IE3)
CAX56026IE3	AXC 560-9-2 (11kW IE3)
CAX56027IE3	AXC 560-9-2 (15kW IE3)



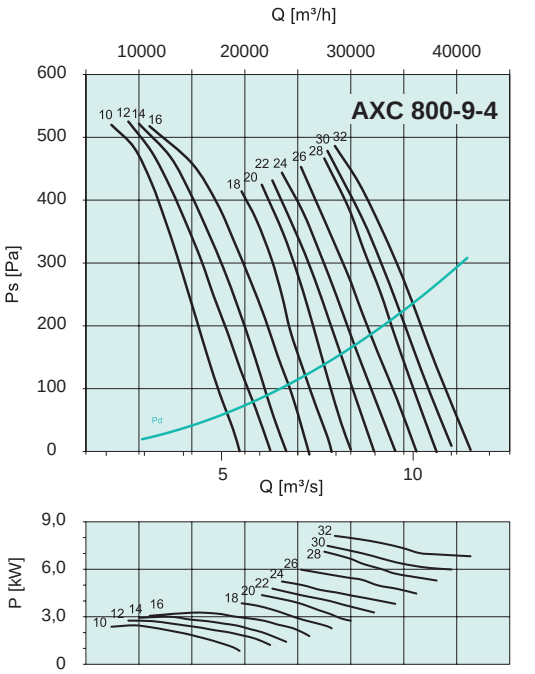
Article no.	Size *
CAX63029IE3	AXC 630-9-4 (2.2kW IE3)
CAX63030IE3	AXC 630-9-4 (3kW IE3)

** More models and motor versions in our online selection program!*

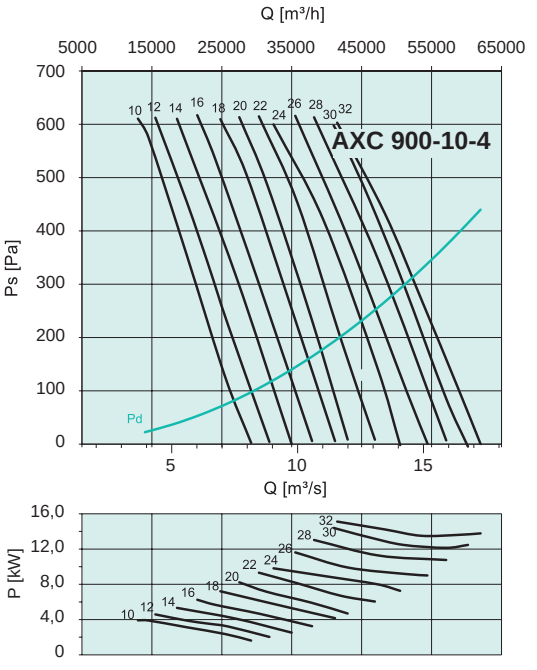
Performance



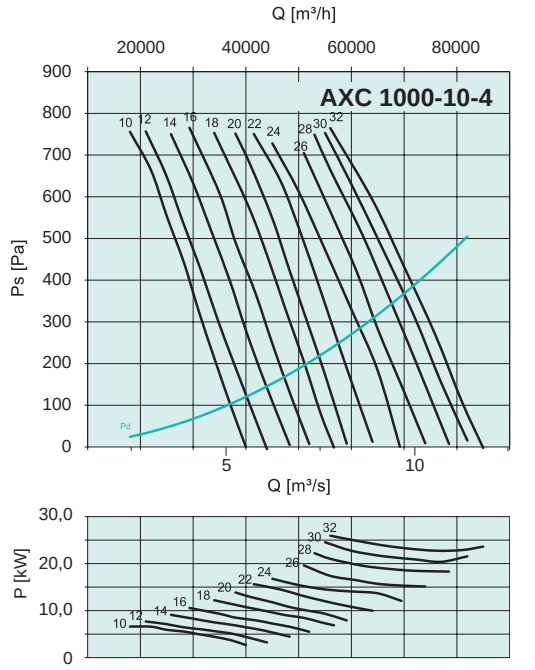
Article no.	Size *
CAX71009IE3	AXC 710-9-4 (2.2kW IE3)
CAX71010IE3	AXC 710-9-4 (3kW IE3)
CAX71011IE3	AXC 710-9-4 (4kW IE3)
CAX71012IE3	AXC 710-9-4 (5.5kW IE3)



Article no.	Size *
CAX80011IE3	AXC 800-9-4 (2.2kW IE3)
CAX80012IE3	AXC 800-9-4 (3kW IE3)
CAX80013IE3	AXC 800-9-4 (4kW IE3)
CAX80014IE3	AXC 800-9-4 (5.5kW IE3)
CAX80015IE3	AXC 800-9-4 (7.5kW IE3)

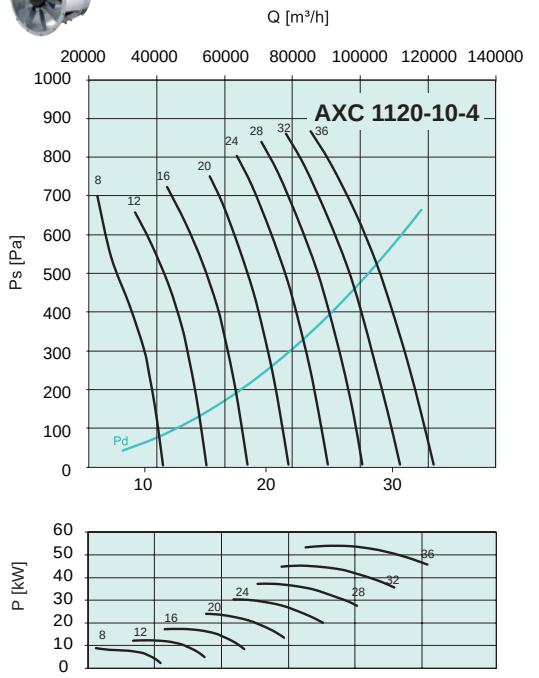


Article no.	Size *
CAX90008IE3	AXC 900-10-4 (2.2kW IE3)
CAX90009IE3	AXC 900-10-4 (3kW IE3)
CAX90010IE3	AXC 900-10-4 (4kW IE3)
CAX90011IE3	AXC 900-10-4 (5.5kW IE3)
CAX90012IE3	AXC 900-10-4 (7.5kW IE3)
CAX90013IE3	AXC 900-10-4 (11kW IE3)
CAX900014IE3	AXC 900-10-4 (15kW IE3)

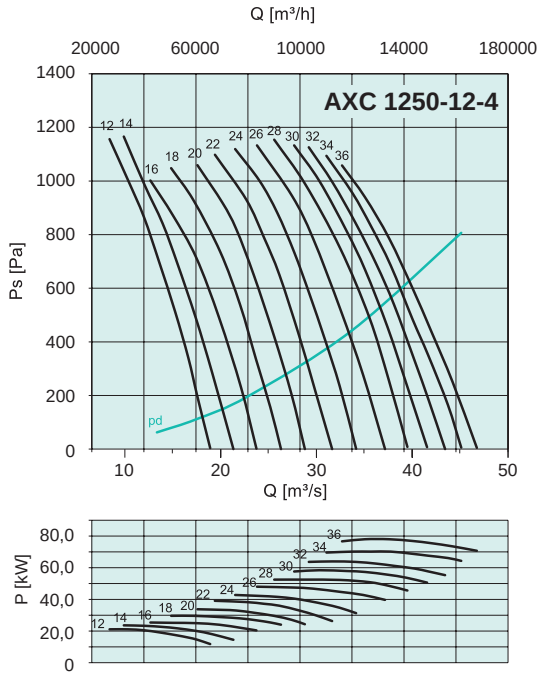


Article no.	Size *
CAX100007IE3	AXC 1000-10-4 (4kW IE3)
CAX100008IE3	AXC 1000-10-4 (5.5kW IE3)
CAX100009IE3	AXC 1000-10-4 (7.7kW IE3)
CAX100010IE3	AXC 1000-10-4 (11kW IE3)
CAX100011IE3	AXC 1000-10-4 (15kW IE3)
CAX100012IE3	AXC 1000-10-4 (18.5kW IE3)
CAX100013IE3	AXC 1000-10-4 (22kW IE3)
CAX100014IE3	AXC 1000-10-4 (30kW IE3)

Performance



Article no.	Size *
CAX112006IE3	AXC 1120-10-4 (5.5kW IE3)
CAX112007IE3	AXC 1120-10-4 (7.5kW IE3)
CAX112008IE3	AXC 1120-10-4 (11kW IE3)
CAX112009IE3	AXC 1120-10-4 (15kW IE3)
CAX112010IE3	AXC 1120-10-4 (18.5kW IE3)



Article no.	Size *
CAX125007IE3	AXC 1250-12-4 (11kW IE3)
CAX125008IE3	AXC 1250-12-4 (15kW IE3)
CAX125009IE3	AXC 1250-12-4 (18.5kW IE3)
CAX125010IE3	AXC 1250-12-4 (22kW IE3)
CAX125011IE3	AXC 1250-12-4 (30kW IE3)
CAX125012IE3	AXC 1250-12-4 (37kW IE3)
CAX125013IE3	AXC 1250-12-4 (45kW IE3)
CAX125014IE3	AXC 1250-12-4 (55kW IE3)

** More models and motor versions in our online selection program!*

AXCBF

Axial fan



200°C

- Aerodynamic impeller
- Hub and blades manufactured from high-strength aluminium cast alloy
- Drilled flange compliant with Eurovent 1/2
- Transported air temperatures of up to 200 °C in continuous operation
- Maximum ambient temperature 55 °C

Casing
Bifurcated casing manufactured from hot-dip galvanised sheet steel in accordance with DIN EN ISO 1461. Easy access to the motor terminal box. The motor is completely separated from the airstream.

Motor
Frequency inverter controllable motor compliant with IEC standard. Terminal box on the motor.

Impeller geometry
Aerodynamic axial impeller manufactured from cast aluminium alloy, for maximum efficiency.

Output control
Speed controllable via frequency inverter.

Motor protection
Integrated PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com.

Accessories



EVH
Flex. connection
Page 563



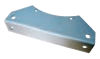
FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



SG AR/AXC
Protection guard
Page 557



MFA-AXCBF
Mounting feet
Page 558



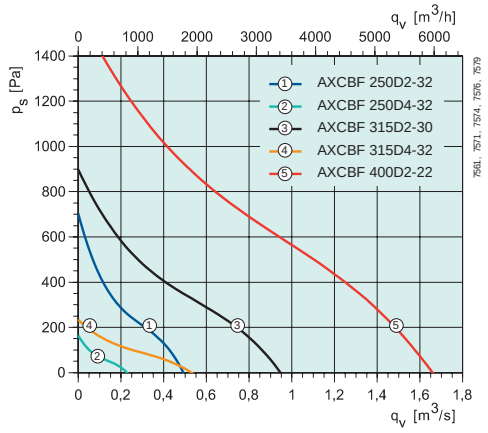
RSA(F)
Silencer
Page 556

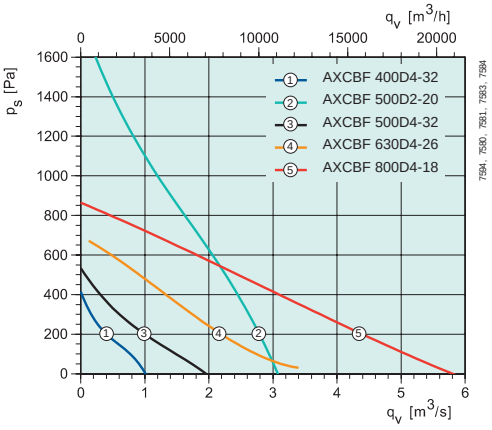


ZSD
Spring damper
Page 560

Note: Accessories RSA and SG not available for size 250.

Quick selection





Electrical accessories



REV
Switching device
Page 510



FRQ
Frequency inverter
Page 490



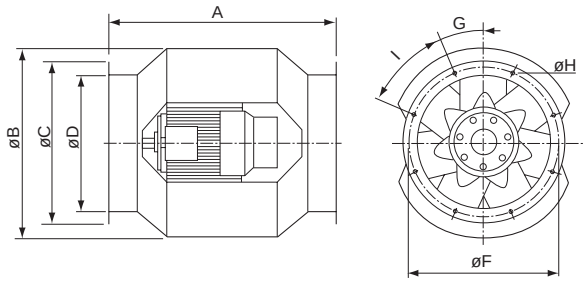
FC102
Frequency inverter
Page 492



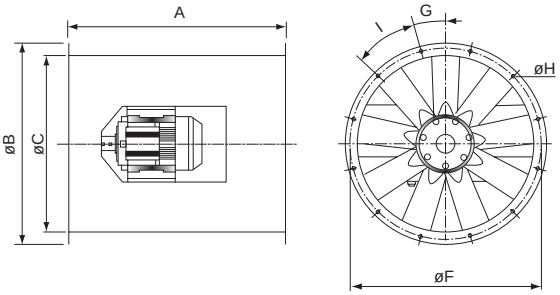
AES
Switching device
Page 481

Dimensions

AXCBF 250 - AXCBF 500



AXCBF 630 - AXCBF 800



AXCBF	A	ø B	ø C	ø D	ø F	G	ø H	I
AXCBF 250	535	448	328	250	302	22.5°	10	8x45°
AXCBF 315	535	452	385	315	355	22.5°	10	8x45°
AXCBF 400	625	585	480	400	450	22.5°	10	8x45°
AXCBF 500D2 long version	710	695	590	500	560	15°	12	12x30°
AXCBF 500D4 short version	660	695	590	500	560	15°	12	12x30°
AXCBF 630	790	728	630	-	690	15°	12	12x30°
AXCBF 800	880	890	800	-	860	11.25°	12	16x22,5°

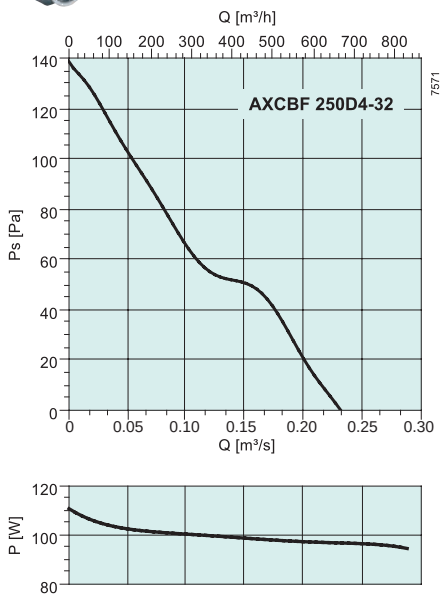
Technical data

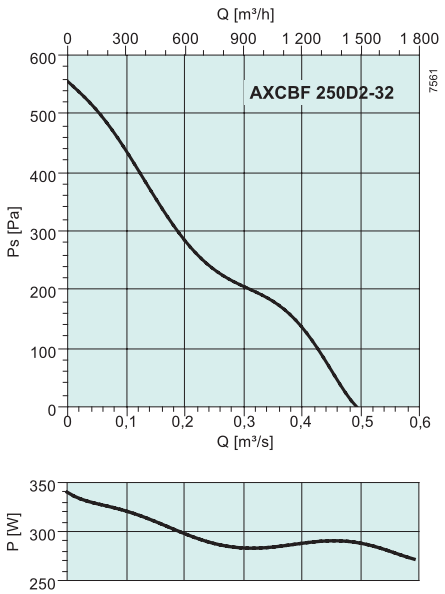
AXCBF		250D4-32	250D2-32	315D4-32	315D2-30 IE2	400D4-32
Art. no.		*32458*	*32456*	*32462*	*34146*	*32483*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Nominal power at shaft (P2)	W	250	370	250	750	550
Current	A	0.8	1.8	0.8	1.68	1.5
Max. airflow	m^3/h	828	1775	1930	3424	3622
Fan impeller speed	r.p.m.	1487	2929	1466	2875	1445
Max. temperature of transported air	°C	200	200	200	200	200
Permitted max. ambient temperature	°C	55	55	55	55	55
Weight	kg	30	25.2	29.3	35	45.1
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

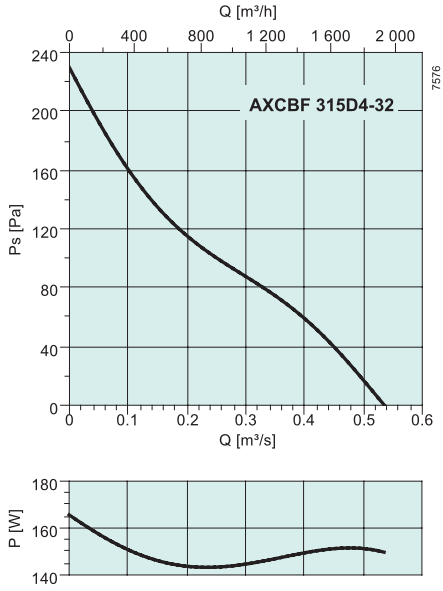
AXCBF		400D2-22 IE2	500D2-20 IE2	500D4-32 IE2	630D4-26 IE2	800D4-18 IE2
Art. no.		*34147*	*34148*	*34152*	*34155*	*34156*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Nominal power at shaft (P2)	W	2200	4000	1100	2200	4000
Current	A	4.48	7.64	2.53	4.64	8.12
Max. airflow	m^3/h	5944	11002	6862	12398	20275
Fan impeller speed	r.p.m.	2890	2914	1445	1440	1445
Max. temperature of transported air	°C	200	200	200	200	200
Permitted max. ambient temperature	°C	55	55	55	55	55
Weight	kg	52.5	80.8	66	90.8	155
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

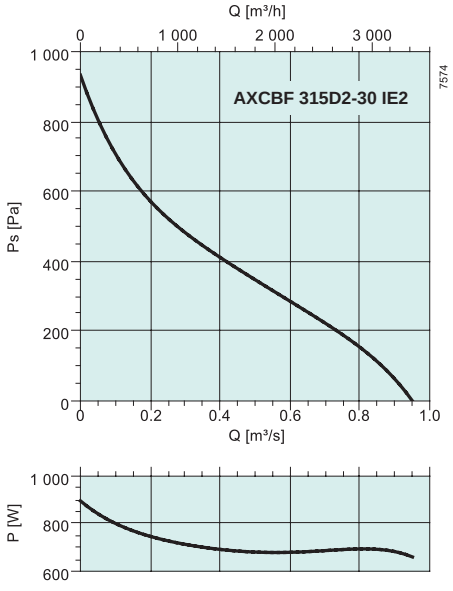
Article no.. 34148 = long version *Article no. 34152 = short version*

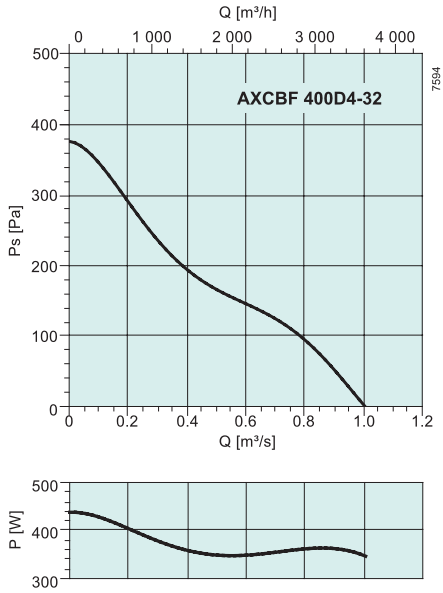
Performace

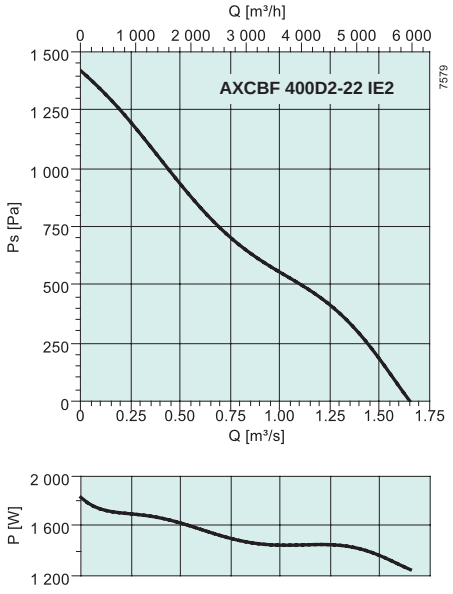

Q [m³/h]
0 100 200 300 400 500 600 700 800
AXCBF 250D4-32
7571
Ps [Pa]
0 20 40 60 80 100 120 140
0 0.05 0.10 0.15 0.20 0.25 0.30
Q [m³/s]
P [W]
80 100 120


Q [m³/h]
0 300 600 900 1 200 1 500 1 800
AXCBF 250D2-32
7561
Ps [Pa]
0 100 200 300 400 500 600
0 0,1 0,2 0,3 0,4 0,5 0,6
Q [m³/s]
P [W]
250 300 350

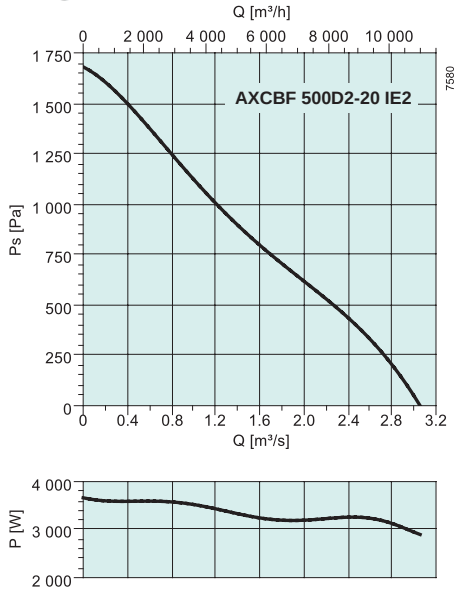

Q [m³/h]
0 400 800 1 200 1 600 2 000
AXCBF 315D4-32
7576
Ps [Pa]
0 40 80 120 160 200 240
0 0.1 0.2 0.3 0.4 0.5 0.6
Q [m³/s]
P [W]
140 160 180

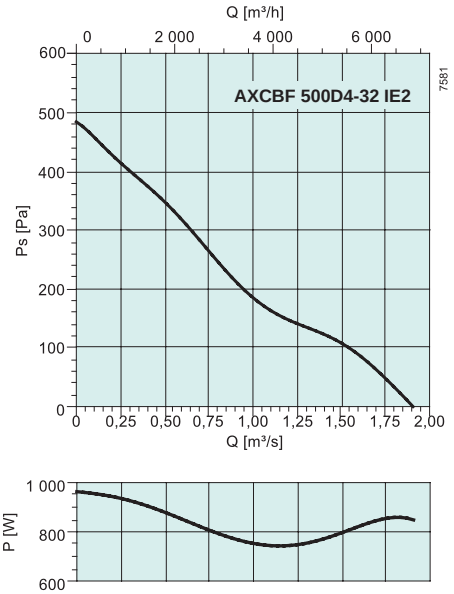

Q [m³/h]
0 1 000 2 000 3 000
AXCBF 315D2-30 IE2
7574
Ps [Pa]
0 200 400 600 800 1 000
0 0.2 0.4 0.6 0.8 1.0
Q [m³/s]
P [W]
600 800 1 000

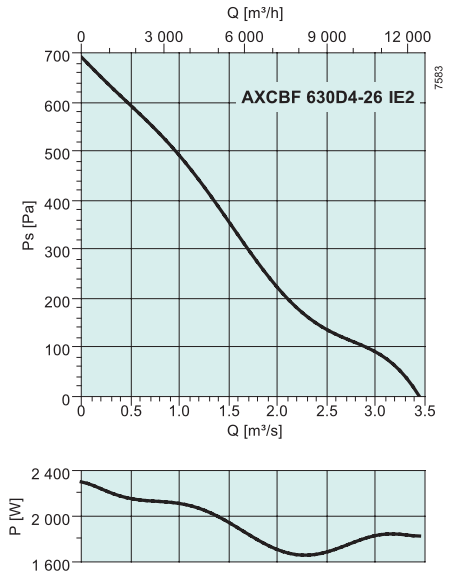

Q [m³/h]
0 1 000 2 000 3 000 4 000
AXCBF 400D4-32
7594
Ps [Pa]
0 100 200 300 400 500
0 0.2 0.4 0.6 0.8 1.0 1.2
Q [m³/s]
P [W]
300 400 500

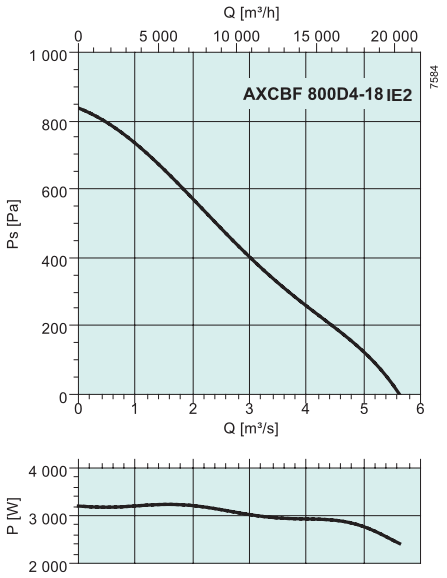

Q [m³/h]
0 1 000 2 000 3 000 4 000 5 000 6 000
AXCBF 400D2-22 IE2
7579
Ps [Pa]
0 250 500 750 1 000 1 250 1 500
0 0.25 0.50 0.75 1.00 1.25 1.50 1.75
Q [m³/s]
P [W]
1 200 1 600 2 000

Performace


Q [m³/h]
0 2 000 4 000 6 000 8 000 10 000
1 750
1 500
1 250
1 000
750
500
250
0
Ps [Pa]
AXCBF 500D2-20 IE2
7580
0 0.4 0.8 1.2 1.6 2.0 2.4 2.8 3.2
Q [m³/s]
4 000
3 000
2 000
P [W]


Q [m³/h]
0 2 000 4 000 6 000
600
500
400
300
200
100
0
Ps [Pa]
AXCBF 500D4-32 IE2
7581
0 0,25 0,50 0,75 1,00 1,25 1,50 1,75 2,00
Q [m³/s]
1 000
800
600
P [W]


Q [m³/h]
0 3 000 6 000 9 000 12 000
700
600
500
400
300
200
100
0
Ps [Pa]
AXCBF 630D4-26 IE2
7583
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5
Q [m³/s]
2 400
2 000
1 600
P [W]


Q [m³/h]
0 5 000 10 000 15 000 20 000
1 000
800
600
400
200
0
Ps [Pa]
AXCBF 800D4-18 IE2
7584
0 1 2 3 4 5 6
Q [m³/s]
4 000
3 000
2 000
P [W]

Jet fan systems

Extremely efficient – uncompromisingly safe.
Contemporary ventilation for multi-storey and underground car parks.



Power through motion.
Whether residential accommodation, office complex or factory building – each building has its specific requirements for ventilation. One of the special challenges here are underground and multi-storey car parks, where, due to the exhaust gases, the air is severely contaminated with carbon monoxide, nitrogen oxide and LPG (liquefied petroleum gas). Depending on the concentration and the length of time spent in the car park, this is a great danger for the users.

Therefore, the polluted air needs to be extracted quickly and safely. However, the duct systems which are often used for this take-up a lot of space and often cross other services such as electrical or water lines. This is reflected in the investment and installation costs. Luckily there is now an intelligent alternative: Green Ventilation jet fan systems from Systemair.

Thoroughly safe. Extremely economical.
Jet fans – also known as impulse or induction fans – support the natural flow between the supply air and extract air zones. They provide motion in regions with low air speeds, thus guaranteeing the daily ventilation requirement for all areas.

Since jet fans are only installed at particular points, they take up less than 0.5% of the ceiling area. This leaves room for other technical installations and the visibility across the parking decks is improved. Often it is even possible to reduce the storey heights. This saves time and money.

For the system to be able to reach its full potential and react reliably in an emergency depends on precise planning and a perfectly-controlled interaction of all the components. This is why, if you wish, Systemair will support you right from the design phase and can offer you jet ventilation as a complete package. This means you only have a single contact and can be sure that everything functions smoothly. You only need to install it, switch it on and you're done.

Something else you can count on: up to 80% energy saving when operating in Green Ventilation mode*. This is mainly due to the intelligent control system, which adapts flexibly to the current demand – naturally in full compliance with all the legal requirements. Convinced?

*Comparison of CO mode with rated power of car park extract air fans.



The Green Ventilation jet fan systems from Systemair: Our experts and developers have invested more time so that you get much less! That is, less energy consumption, fewer operating costs, less expense for planning, realisation and commissioning.

The combination of modern fans, tailored components and intelligent control results in a system fully attuned to your requirements, which is unrivalled in its efficiency: with up to 80% energy saving. At last, a breath of fresh air for the ventilation of multi-storey and underground car parks.

Your all-inclusive service package from Systemair

- Conception of the entire system including CFD analysis
- Detailed ventilation planning
- Creation of cable lists and compilation of all components
- Delivery of the components to the building site
- Commissioning
- Accompanying the independent acceptance inspection with hot smoke test

prioJet EC NEW! 313



Jet fan with EC motor

AJR-TR 314



Jet fan

AJ(F)-TR 315



Jet fan F400

AJ8-TR - Premium 316



Jet fan

AJ(F)-TR-8 317



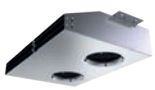
Jet fan F400

IV 318



Jet fan

IV smart NEW! 319



Jet fan

Perfectly positioned for every challenge.

Made-to-measure jet fan systems

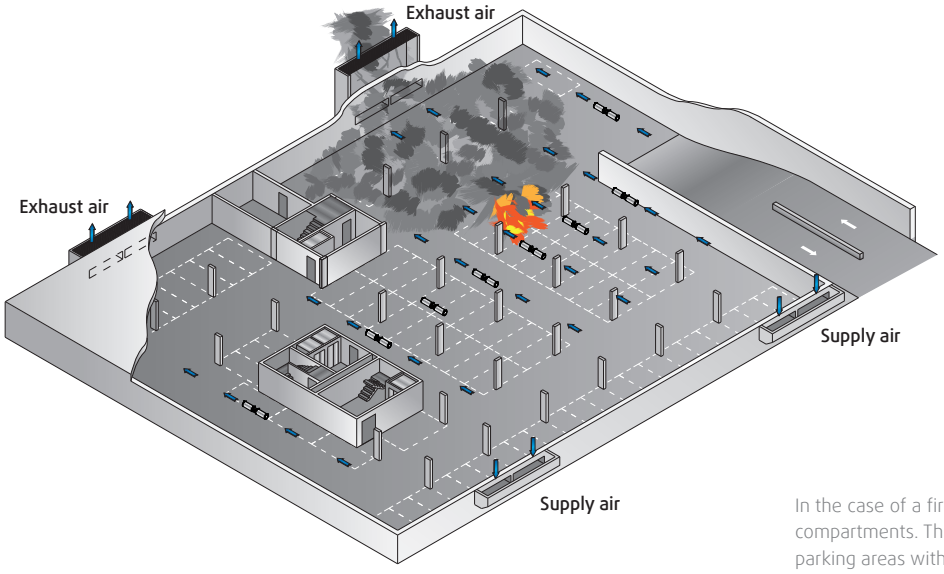
No matter what the design of your underground car park or multi-storey car park looks like – together with you, our experienced experts will develop a solution tailored to your project, consisting of supply air, extract air and jet fans, monitoring sensors, a superordinated control system and accessories as required. This takes into account any available supply air inlets, such as entry ramps or other openings. Of course, our planning is based on the legal requirements; not forgetting the different approaches taken in the German car park regulations (GAVO) for individual federal states.

Ready in case of emergency

Jet fan systems from Systemair are active systems which, in an emergency, react according to a pre-saved switching matrix, thus offering people and buildings the greatest possible protection. To start with, protection targets are agreed for each project. If there is an emergency, the project-specific switching matrix ensures that the legal basic requirements and the predetermined protection targets are adhered to. These are for example maximum CO and smoke gas concentrations, required visibilities for self-rescue and preparation for firefighting by the fire services.
In the case of fire, the aerodynamic forces provided by the jet fans – according to the protection targets – form virtual smoke compartments. This enables you to build large, open car parking areas, which would otherwise have to be subdivided by gates or other elements. Naturally always from the perspective of the highest efficiency and energy saving, without losing track of the investment costs.

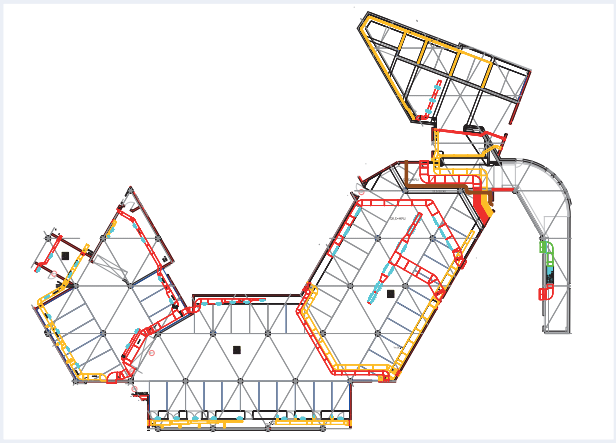
! Good for the budget

The „virtual" smoke compartments save you from having to install fire protection walls and a sprinkler system, as well as the costs for their annual maintenance.

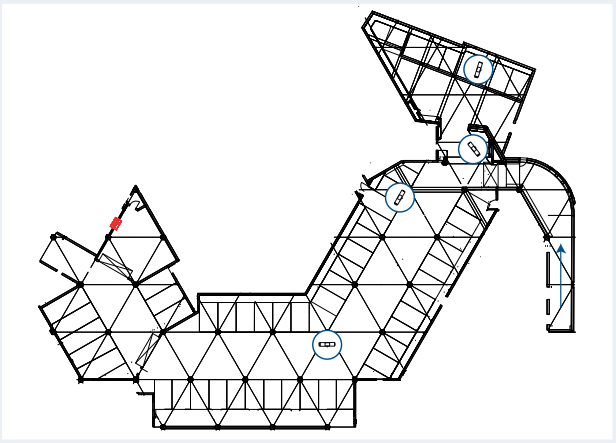


In the case of a fire, the jet fans form virtual smoke compartments. This enables you to design larger car parking areas without gates or other elements.

The development of the underground car park



Conventional duct systems require a lot of space and are expensive to install.



In contrast, jet fans are only installed at particular points, taking up less than 0.5% of the ceiling area.

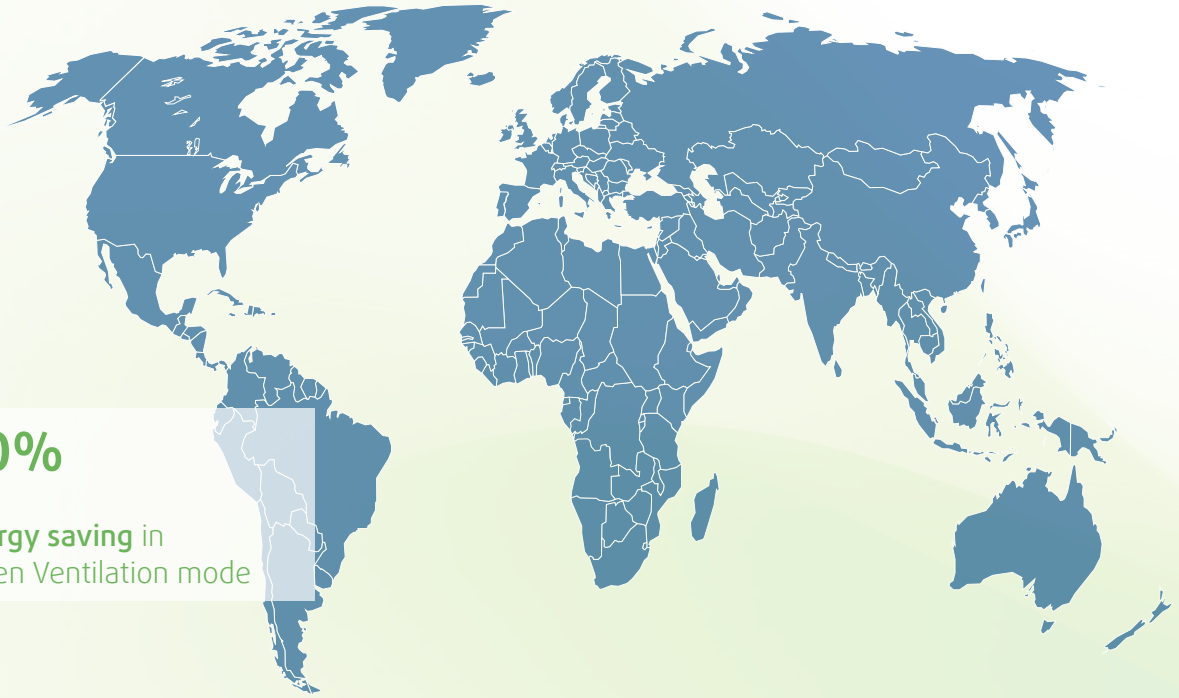
When you need to get the most from limited space...

Different garage types demand different solutions for their day-to-day ventilation. Whatever you are planning, we will find a solution that is efficient, cost effective and fit for the future.



Exceptionally efficient.

Green Ventilation for underground car parks



80%

energy saving in
Green Ventilation mode

Reliable, effective ventilation and energy-saving are no longer a contradiction in terms, thanks to Green Ventilation jet fan systems from Systemair. Compared with conventional ventilation systems, energy savings of up to 80% are possible*. To achieve this, we have applied all our expertise and years of experience in the ventilation of modern, energy-efficient buildings to underground and multi-storey car parks. The result is a specially adapted Green Ventilation control system which is individually preprogrammed for your specific project. It evaluates the measurements from CO exhaust gas sensors as well as from fire and smoke alarms, controlling the individually, virtually-formed smoke and CO compartments according to requirements. The jet fans in the unaffected zones are operated according to the pre-saved control matrix.

So that everything functions perfectly, the control system must be exactly adjusted to all the requirements; in harmony with the other building services. This is why we will support you with help and advice right from the start and stay at your side until your system is commissioned. It goes without saying that during the design phase we observe all the legal federal requirements as well as the applicable regional fire regulations. Later on, all the documentation will be stored in the control cabinet and so is easy to view and check during the annual inspection. The Systemair Service makes it easy for you.

* In Systemair CO mode, compared with rated power of car park extract air fans

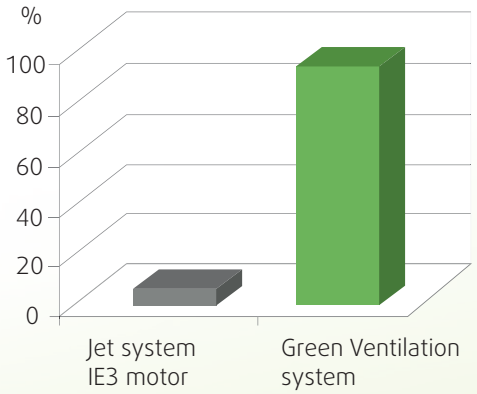
Reducing energy costs

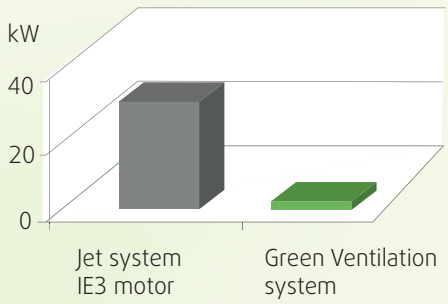
Many systems offer you the opportunity to save energy or to extract smoke from the car park. Why do one and do without the other?

Systemair has applied energy-saving to the smoke extraction system.

Case study

Power consumption for 5,000 m^2 car parking area, 60,000 m^3/h and 13 impulse fans.





Products you can rely on

Save energy, reduce operating costs!
Our "Green Ventilation" label identifies all products which are particularly energy-efficient. All products which are marked with "Green Ventilation" unite economy with energy-efficiency.

Perfect interaction.

Plant room

This is where the main fans for supplying and extracting air are located, connected either in parallel or in series. Suitable are fans which fulfil the performance data and required temperature/time categories, such as, for example, the Systemair AXC, MUB series, or roof fans. AXC series axial fans are available in standard temperature versions or for temperature classes F300 and F400.

Sizes range from 315 mm to 1,600 mm with single speed or dual speed versions. There is also the option of equipping the MUB series or roof fans with EC motors. All fans are controlled in Green Ventilation mode, leading to increased energy saving. The appliance room for supply air can often be dispensed with if there is a natural supply of fresh air.

Multi-storey or underground car park

Here, instead of using a duct system, our impulse fans are located at particular points on the ceiling, in order to guide the polluted air or smoke gases to the extract air point. They are designed to have two speeds and so can be controlled in the energy-saving Green Ventilation mode. Different models are appropriate depending on the storey height. The AJR and AJ8 axial jet fans are available in the sizes 315, 355 and 400. Our radial type IV fans, or the prioJet operated with an EC motor, are suitable for low car park ceiling heights.

Our jet fans have a thrust of 12 – 100 N and are available for standard temperatures. The AJR, AJ8 and IV series fans are also available in smoke extraction versions (F300 and F400). Sensors are installed to comprehensively monitor the carbon and nitrogen concentrations. There are also transparent signs which light up and warn the users if the concentration is too high. All fans, sensors and transparent warning signs are connected with the central or the decentralised control system.

Control room

The control system is located in this structurally separate room. It consists of a fan control system and an integrated CO alarm system. All the fans, dampers and other necessary equipment are controlled from here. The interface for all incoming and outgoing signals and messages is also here.

CO Alarm system

The air quality in the car parking area is monitored using CO/NOx sensors and is evaluated by the CO central unit. For safety reasons, the central unit is equipped with an emergency power supply. If a preprogrammed CO/NO_X threshold is exceeded, the main and/or impulse fans are activated and the transparent warning signs in the parking decks are switched on. In conjunction with the fan control system, the fans run at a high or low level – via a switching matrix which is especially adapted to the particular car park building.

Central unit



low ppm

medium ppm

warning ppm

Power supply

Relay module

Repeater

Fan control

This incorporates the current and voltage supply for the entire system as well as the load, control and logic units of the main and jet fans, via a protection circuit or – optionally – via a frequency converter. The circuit is also equipped with fail-safe hard-wiring, but can also be implemented with a PLC (programmable logic controller) if necessary. The actuation of dampers or gates and connection of a fire alarm system are also possible.

L-TG

Smoke extraction

Central fire alarm

Thrust fans

Mains fans

Damper control



Main fans

Smoke extraction roof fan



Supply air





Exhaust air





Tranparent signs
120 ppm



Sensors
Measurements in ppm.
Acoustic signal above 120 ppm.



Thrust fans




P-Nr. 80-118

One system. Many advantages.

For investors: Low costs. Modern design.

- Low-cost due to point installation
- Perfect for renovation thanks to high flexibility
- Aesthetically appealing thanks to a modern design
- Good clarity in car parks thanks to compact jet fans

For planners: More safety.

- Can be used flexibly in new buildings and conversions
- Saves time because less planning is needed
- Safe thanks to the possibilities provided by CFD analysis and the hot smoke test

For installers: Simple commissioning.

- Easy to install and a high degree of flexibility due to individual fans
- Trouble-free installation:
  no collisions with other services such as electrical or water lines
- Operation-ready, inspected system:
  Just install, switch on and you're done!

For operators: User-friendly.

- Aftersales service with a maintenance contract
- Low operating costs: up to 80% energy-saving thanks to intelligent control and demandbased operation
- No pressure losses because of a complex duct system
- Good air quality: lower concentration of hazardous substances than for conventional systems
- Optimum safety in case of fire thanks to rapid smoke and heat extraction
- Easy to maintain: especially the AJ8 series

Products you can rely on.

The all-inclusive service package from Systemair

Whether planning, implementing, commissioning or acceptance – in complex projects, each phase presents a real challenge to you and your team. Especially when ventilation and electrical plant – with their different requirements – come up against each other. We at Systemair want to make your daily work as easy as possible and offer you the greatest possible levels of safety. This is why we'll support you with a lot of expertise, high-performance products and as much service as you wish. You could even go for our all-inclusive service package: from conception and detailed planning through to the final handover. This means we have an overview of all the planning phases and building services, coordinate the interfaces and are able to support you in the best possible way.

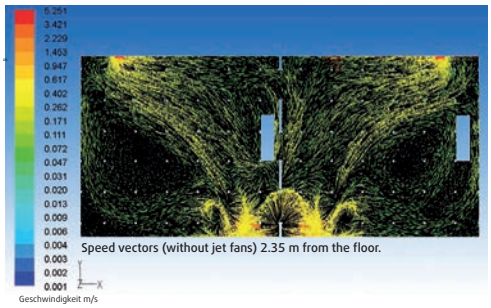
Safety right from the start

In the development of our products we place the highest value on quality, functionality, efficiency and reduced energy consumption. And because we only want to deliver the best to you, we will test your whole jet fan system thoroughly, including all the components, before handing it over to you. Our research and development centres in Sweden and Germany are among the most modern test laboratories for ventilation engineering in Europe. This means you can be sure that the commissioning of your system will not be burdened by troubleshooting. If you wish, when commissioning your jet fan system we can also carry out a smoke gas test, simulating the worst-case scenario.

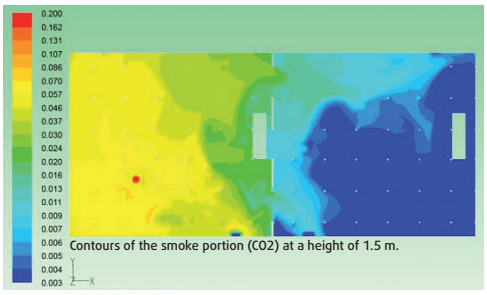
Extremely important – and legally required for systems used for structural fire protection – is the annual maintenance and servicing. You can safely leave this to us as well. The Systemair Service Team knows what your system needs be able to do; in daily operation and in case of fire. So, how much service would you like?

CFD simulation

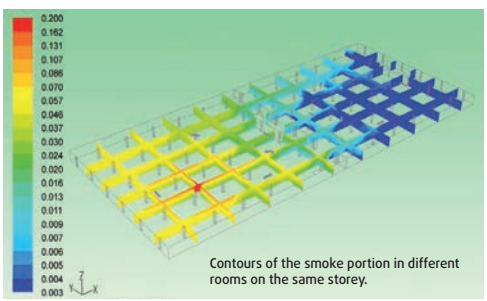
On request, we can simulate the air flows within your underground car park using CFD simulation (Computational Fluid Dynamics). This means we are already able to check in the planning phase, whether the air motion is sufficient for the required air exchange rate and if enough jet fans have been planned in. The installation positions of the jet fans will also be determined. All we need for this is a 3D model of your building which includes all the flow-relevant information, such as all the openings, the ceiling heights and the nature of the ceilings (flat, with beams etc.).



Speed vectors (without jet fans) 2.35 m from the floor.



Contours of the smoke portion (CO2) at a height of 1.5 m.



Contours of the smoke portion in different rooms on the same storey.

Everything under control!

The Systemair control system

In order for the individual components to be able to work together as a highly efficient and safe system, they need a controller which is just as intelligent as it is reliable. Good that you can completely put your faith in the expertise and experience of Systemair.

The Systemair control system encompasses the fan control for ventilation and smoke extraction in underground car parks. It is equipped with supply air and extract air fans, jet fans and sensors. Single and dual speed fans can be controlled as well as fans for a single flow direction or reversible fans. Each jet fan can be activated individually for maintenance work and commissioning. The Systemair control system has active motor protection in normal ventilation mode, with individual or group fault reporting (only for standard temperature version).

In normal ventilation mode, the function of the control system is either dependent on the CO alarm system, on clock timers, the building management system or data from the building management system. Here the fans always run with exactly the required speed in the direction of flow selected for the individual fan.

In case of fire, the control system then reacts independently of the fire alarm system. Virtual fire compartments with different flow directions for smoke extraction can be formed. All fans which are activated in the fire compartment work automatically in the speed and direction of rotation pre-set for this case.
The integrated overcurrent protection for the motor in the control cabinet is deactivated. As long as there is no mechanical damage due to the fire, each individual fan constantly maintains its life-saving function!



R&D Center in Windischbuch, Germany

One of the largest fan test facilities in Germany with a capacity of 600,000 m^3/h.







All good things come from above.

Supply air and extract air fans for underground car parks

As important as thorough planning and intelligent control may be, the efficiency and reliability of your system will stand or fall with the fan technology. With Systemair you profit from a broad portfolio of well-tried and tested solutions – with the most up-to-date technology.

For supply and extract air fans in multi-storey and underground car parks, Systemair recommends using AXC medium pressure axial fans. These are available in sizes from 315 to 2,000 mm and are equipped with easy-to-maintain direct-driven IEC standard motors. Depending on the requirement, they can be installed horizontally or vertically, as individual fans, in series or in parallel. For standard ambient temperatures of -20 °C to +55 °C as well as for high-temperature smoke extraction applications from 250 °C/120 min., 300 °C/120 min. and 400 °C/120 min.

All products are aerodynamically tested using the modern Systemair test facilities, according to AMCA 210 and DIN ISO 5801. The AXC fans undergo 100% factory-testing before delivery. This way we can ensure that they are absolutely vibration-free and electrically safe.

Our axial fans for high-temperature applications are tested and certified according to EN 12101-3. The certificates awarded by the authorised organisations are available for download on www.systemair.com.



AXC

Fan housing

Depending on the application, the AXC fan housing is available in the following versions:

- hot-dip galvanised (standard)
- pre-galvanised (ventilation control centres)
- powder-coated (on request)
- stainless steel (corrosive atmosphere)

All housings have pressed flanges for airtight duct connection. The fan sizes up to 1600 are equipped with an inspection opening for checking the direction of rotation.

Fan motor

IEC standard motors according to EN60034-5; standard, highly-efficient motors complying with the ErP Directive 327/2011. Insulation class F or H, depending on the application, 2-, 4- ,6- or 8-pin, one- or two-stage.
In the standard, the standard motor is suitable for inverter speed control for motor frame sizes up to 225. Motors for applications at ambient temperatures are equipped with PTC thermistors as standard for motor protection.

Fan impeller

Unidirectional or fully reversible blades made from die-cast aluminium (LM13 or ADC12 depending on size and application). All reversible impellers are x-rayed. Dynamically-balanced for vibration-free running. Adjustable impeller positioning angle for maximum efficiency at a standstill.

Connection box

The standard connection box is assembled on the outside of the fan housing for quick and easy connection. Insulation class IP 65. Die-cast aluminium, powder-coated steel or stainless steel, depending on the application.

Motor bearing

L10 motor bearing life over 40,000 hours for standard temperature motors and bearings with permanent lubrication. The bearing service life varies depending on its field of application.

Accessories

- Assembly feet/plates for horizontal and vertical installation
- Non-return dampers
- Vibration dampers
- Flange and flexible connections
- Protective cover
- Acoustic dampers
- Inlet nozzles
- Maintenance switch
- Frequency converter

AXC...Box

- The fan unit is mounted in a vibration-damped housing with removable, double-skin galvanised steel panels. These are acoustically and thermally insulated with a 20 mm or 50 mm thick layer of non-flammable mineral wool. The panels for duct connection are single-skin without insulation.
- The box frame, including its corners, is made from aluminium. The fan can be accessed via a service door (selectable access side).
- Standard version for horizontal installation; version for vertical installation available on request.
- Weather-protection roof available for outdoor installation.
- Acoustic attenuation values for housing emissions, see table.



Inseration attenuation DIN EN 1886	Hz	125	250	500	1000	2000	4000	8000
Wall thickness 20 mm	dB	12	14	18	27	22	25	33
Wall thickness 50 mm	dB	27	34	43	38	34	38	40

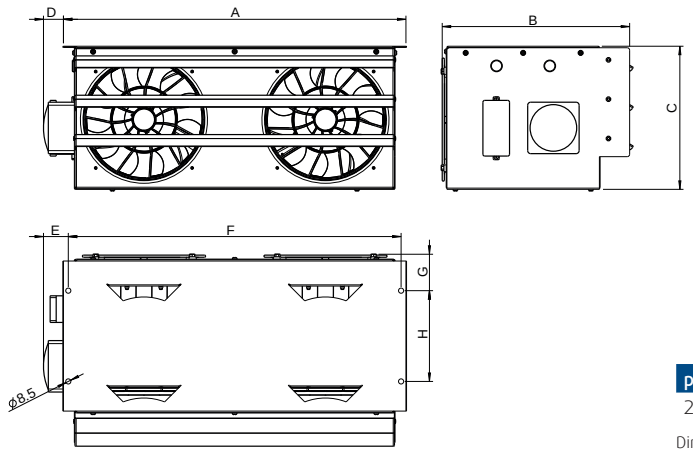

systemair

prioJet EC



- Green Ventilation jet fan with energy efficient EC technology for daily demand ventilation, CO control and cold smoke extraction. Your benefit: in an energy-efficient way prioJet meets all necessary requirements you have to fulfil.
- Available in 50/60 Hz, 230 V EC motors IP 44, according to EN 60034-5. Your benefit: cost-efficient - no expensive supply lines required.
- Very high efficiency. Your benefit: maximum performance and low energy consumption.
- Flow-optimized impellers and discharge guide vane. Your benefit: laminar airflow, low energy use.
- Flat, compact housing. Your benefit: low installation height.
- Low weight and pre-installed ceiling mountings made of galvanised steel. Your benefit: easy, fast and safe installation.
- 100% controllable via 0-10 V signal
- Integrated motor protection
- Casing made of galvanised steel sheet
- For medium temperatures up to 55 °C in continuous operation
- Terminal box mounted at the outside of the casing for easy wiring

Dimensions



prioJet	A	B	C	D	E	F	G	H
200 EC	616	310	236.5	8	21	590	135	110

Dimensions in mm.

Technical data

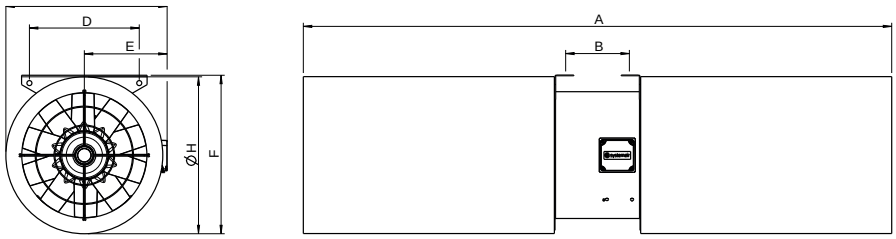
prioJet EC		prioJet 200 EC
Art. no.		*37215*
Voltage	V	230
Frequency	Hz	50/60 Hz
Phase	~	1
Fan impeller speed	r.p.m.	3463
Rated power	kW	0.23
Current	A	1.84
Thrust	N	12
Max. airflow	m^3/h	2664
Sound pressure level at 3m (20m^2 Sabine)	dB(A)	65
Weight	kg	11.5

AJR-TR



- For daily ventilation requirements and smoke extraction in case of fire F300 (300 °C/120 min.)
- Symmetrical impeller blades; 100% reversible with low noise emissions
- IP55 motors, insulation class H (smoke extraction version); IP55 motors, insulation class F (CO ventilation), according to EN 60034-5
- 50/60 Hz version available
- Tested maintenance switch optional
- Housing from galvanised sheet steel
- Tested according to EN 12101-3
- CE certification by BSI

Dimensions



Size	ØH	A	B	C	D	E	F
315	420	1535	211	433	265	223	425
355	460	1695	211	473	305	243	465
400	500	1875	211	516	350	266	505

Dimensions in mm.

Technical data

AJR		55 °C AJR 315-2/4-TR	AJR 355-2/4-TR	AJR 400-2/4-TR	300 °C/120 min. AJR 315-2/4 (B)-TR	AJR 355-2/4 (B)-TR	AJR 400-2/4 (B)-TR	AJR 400-2/4 (B)-TR-L
Art. no.		*36277*	*36278*	*36279*	*36221*	*36222*	*36400*	*36175*
Voltage	V	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3	3
Fan impeller speed	r.p.m.	2880/1440	2840/1380	2840/1380	2880/1440	2880/1440	2880/1440	2880/1440
Power	kW	0.80/0.16	1.4/0.3	1.5/0.4	0.8/0.16	1.5/0.2	1.5/0.2	1.7/0.34
Current	A	1.95/0.39	3.08/1.1	4.18/1.47	1.95/0.39	3.62/0.81	3.62/0.81	3.62/0.81
Thrust	N	22/6	37/9	59/16	22/6	37/9	59/16	66/17
Max. airflow	m^3/h	4400/2200	6400/3200	8700/4350	4400/2200	6400/3200	8700/4350	9440/4740
Weight	kg	60	66	68	60	66	68	70

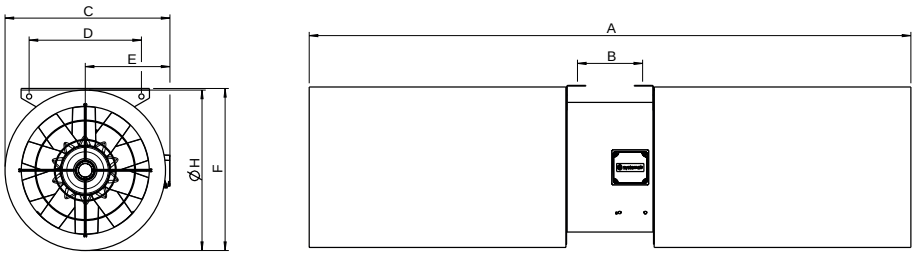
Air volume related to air density 1.2 kg/m^3.

AJR(F)-TR



- For daily ventilation requirements and smoke extraction in case of fire F400 (400°C/120 min.)
- Symmetrical impeller blades; 100% reversible with low noise emissions
- IP55 motors, insulation class H (smoke extraction version), insulation class F (CO ventilation), according to EN 60034-5
- Tested maintenance switch optional
- Housing from galvanised sheet steel
- Tested according to EN 12101-3
- CE certification by BSI

Dimensions



Size	ØH	A	B	C	D	E	F
315	420	1535	211	433	265	223	425
355	460	1695	211	473	305	243	465
400	500	1875	211	516	350	266	505

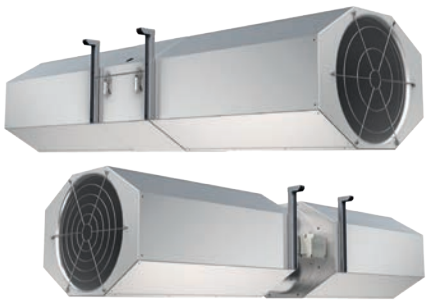
Dimensions in mm.

Technical data

AJR(F)-TR		400 °C/120 min. AJR 315-2/4 (F)-TR	AJR 355-2/4 (F)-TR	AJR 400-2/4 (F)-TR
Art. no.		*73735*	*73736*	*73737*
Voltage	V	400	400	400
Frequency	Hz	50	50	50
Phase	~	3	3	3
Fan impeller speed	r.p.m.	2810/1390	2875/1430	2845/1420
Power	kW	1.1/0.25	1.5/0.37	2.2/0.5
Current	A	2.49/0.8	3.45/1.19	4.63/1.54
Thrust	N	22/6	45/15	59/16
Max. airflow	m^3/h	4405/2200	6900/3400	8700/4350
Weight	kg	65	85	94

Air volume related to air density 1.2 kg/m^3.

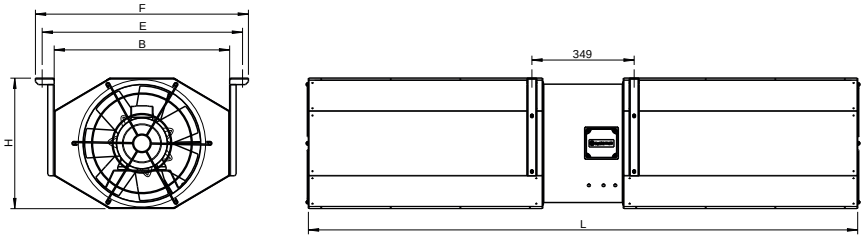
AJ8-TR - Premium

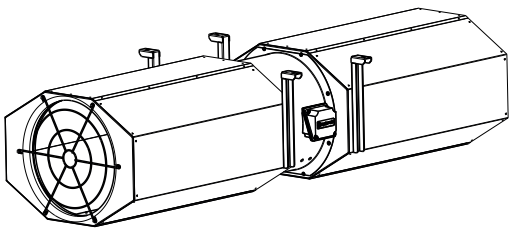




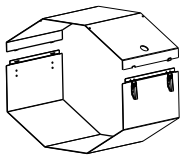
- For daily ventilation requirements and smoke extraction in case of fire F300 (300 °C/120 min.)
- Symmetrical impeller blades; 100% reversible with low noise emissions
- IP55 motors, insulation class H (smoke extraction version); IP55 motors, insulation class F (CO ventilation), according to EN60034-5
- 50/60 Hz version available
- Tested maintenance switch optional
- Housing from galvanised sheet steelh
- Tested according to EN 12101-3
- CE certification by BSI

Dimensions





Accessories



Casing
Available on request.

Size	H	B	E	F	L
315	365	550	635	678	1535
355	395	550	635	678	1695
400	445	600	684	727	1875

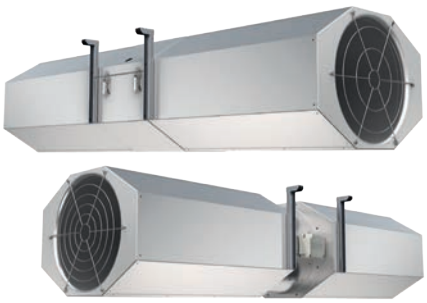
Dimensions in mm.

Technical data

AJ8-TR		55 °C			300 °C/120 min			
		AJ8 315-2/4-TR	AJ8 355-2/4-TR	AJ8 400-2/4-TR	AJ8 315-2/4 (B)-TR	AJ8 355-2/4 (B)-TR	AJ8 400-2/4 (B)-TR	AJ8 400-2/4 (B)-TR-L
Art. no.		*30158*	*31272*	*30842*	*30159*	*31273*	*31196*	*30831*
Voltage	V	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3	3
Fan impeller speed	r.p.m.	2880/1440	2840/1380	2840/1380	2880/1440	2880/1440	2880/1440	2880/1440
Power	kW	0.8/0.16	1.4/0.3	1.5/0.4	0.8/0.16	1.5/0.2	1.5/0.2	1.7/0.34
Current	A	1.95/0.39	3.08/1.1	4.18/1.47	1.95/0.39	3.62/0.81	3.62/0.81	3.62/0.81
Thrust	N	22/6	37/9	59/16	22/6	37/9	59/16	66/17
Max. airflow	m^3/h	4400/2200	6400/3200	8700/4350	4400/2200	6400/3200	8700/4350	9440/4740
Weight	kg	60	75	95	60	75	95	95

Air volume related to air density 1.2 kg/m^3.

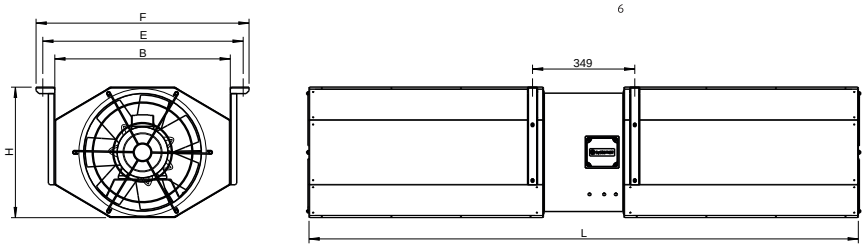
AJ8(F)-TR - Premium

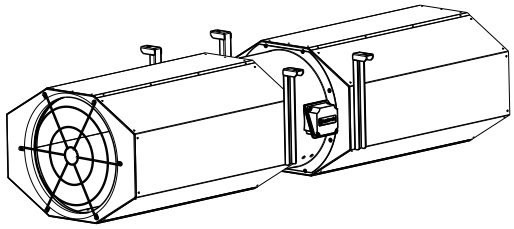


400°C /120min

- For daily ventilation requirements and smoke extraction in case of fire F400 (400°C/120 min.)
- Symmetrical impeller blades; 100% reversible with low noise level
- IP55 motors, insulation class H (smoke extraction version), insulation class F (CO ventilation), according to EN 60034-5
- Tested maintenance switch optional
- Housing from galvanised sheet steel
- Compact design with optimised height
- Tested according to EN 12101-3
- CE certification by BSI

Dimensions

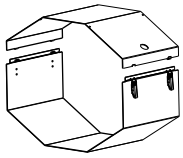




Size	H	B	E	F	L
315	365	550	635	678	1535
355	395	550	635	678	1695
400	445	600	684	727	1875

Dimensions in mm.

Accessories



Casing
Available on request.

Technical data

AJ8(F)-TR		400 °C/120 min. AJ8 315-2/4 (F)-TR	AJ8 355-2/4 (F)-TR	AJ8 400-2/4 (F)-TR
Art. no.		*77163*	*77164*	*77165*
Voltage	V	400	400	400
Frequency	Hz	50	50	50
Phase	~	3	3	3
Fan impeller speed	r.p.m.	2810/1390	2875/1430	2845/1420
Power	kW	1.1/0.25	1.5/0.37	2.2/0.5
Current	A	2.49/0.8	3.45/1.19	4.63/1.54
Thrust	N	22/6	45/15	59/16
Max. airflow	m^3/h	4405/2200	6900/3400	8700/4350
Weight	kg	71	93	106

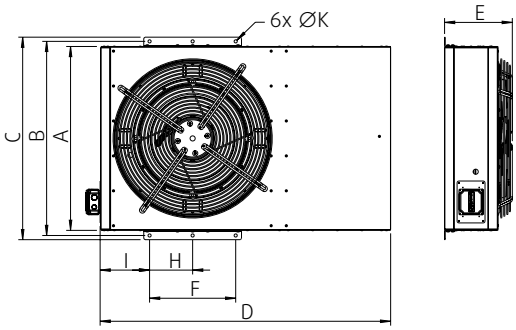
Air volume related to air density 1.2 kg/m^3.

IV



- For daily ventilation requirements and smoke extraction in case of fire F300 (300 °C/120 min.); F400 (400 °C/120 min.) on request
- Aerodynamic radial impeller for maximum thrust and low noise emissions
- IP55 motors, insulation class H (smoke extraction version)
- Tested maintenance switch optional
- Compact housing design, ideal for low ceiling heights
- Housing from galvanised sheet steel
- Integrated deflector (adjustable discharge direction)
- Tested according to EN 12101-3
- CE certification by BSI

Dimensions



IV	A	B	C	D	E	F	H	I	6xØK
50	790	834	870	1248	285	370	185	210	13.5
85	1140	1184	1220	1900	340	420	210	430	13.5
100	1140	1184	1220	1900	340	240	210	430	13.5

Dimensions in mm.

Technical data

IV		300 °C/120 min. 50-4 (B)	50-4/6 (B)	50-4/8 (B)	85-4 (B)	85-4/6 (B)	85-4/8 (B)	100-4/8 (B)
Art. no.		*33477*	*33529*	*33530*	*33478*	*33534*	*33535*	*33702*
Voltage	V	400	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3	3
Fan impeller speed	r.p.m.	1435	1445/955	1430/715	1435	1450/965	1425/715	1425/715
Power	kW	1.5	1.5/0.55	1.3/0.22	2.2	2.2/0.75	2.2/0.37	2.2/0.37
Current	A	3.4	3.7/1.9	3.3/1.2	4.7	6.8/3.6	6.7/2.2	6.7/2.2
Thrust	N	52	52/20	52/14	85	85/28	85/22	100/27
Max. airflow	m^3/s	6196	6196/4190	6138/3100	9950	9950/5875	9950/5098	10116/5112
Weight	kg	76	78	78	162	163	164	166

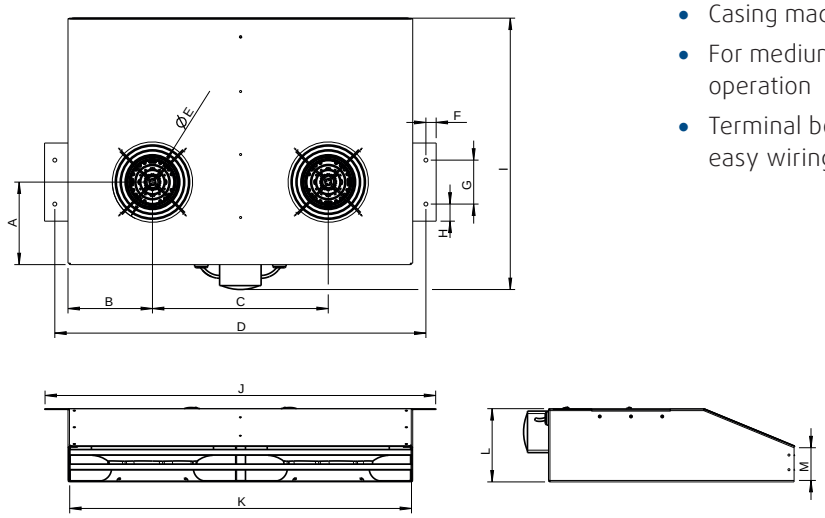
IV		400 °C/120 min. 50-4 (F)	50-4/6 (F)	50-4/8 (F)	85-4 (F)
Art. no.		*34108*	*34109*	*34110*	*34111*
Frequency	V	400	400	400	400
Voltage	Hz	50	50	50	50
Phase	~	3	3	3	3
Fan impeller speed	r.p.m.	1430	1430/955	1430/715	1435
Power	kW	1.5	1.3/0.55	1.3/0.22	2.2
Current	A	3.4	3.3/6.5	3.3/1.1	5
Thrust	N	52	52/20	52/14	85
Max. airflow	m^3/h	6138	5933/3910	6138/3100	9950
Weight	kg	91	94	94	180

IV smart



- Green Ventilation jet fan with energy efficient EC technology for daily demand ventilation, CO control and cold smoke extraction.
  Your benefit: in an energy-efficient way IV smart meets all necessary requirements you have to fulfil.
- Available in 50/60 Hz, 230 V EC / AC motors IP 44, according to EN 60034-5.
  Your benefit: cost-efficient - no expensive supply lines required.
- Very high efficiency.
  Your benefit: maximum performance and low energy consumption.
- Flat, compact housing.
  Your benefit: low installation height.
- Low weight and pre-installed ceiling mountings made of galvanised steel.
  Your benefit: easy, fast and safe installation.
- 100% controllable via 0-10 V signal (EC Version)
- Integrated motor protection (EC Version)
- Casing made of galvanised steel sheet
- For medium temperatures up to 55°C in continuous operation
- Terminal box mounted at the outside of the casing for easy wiring

Dimensions



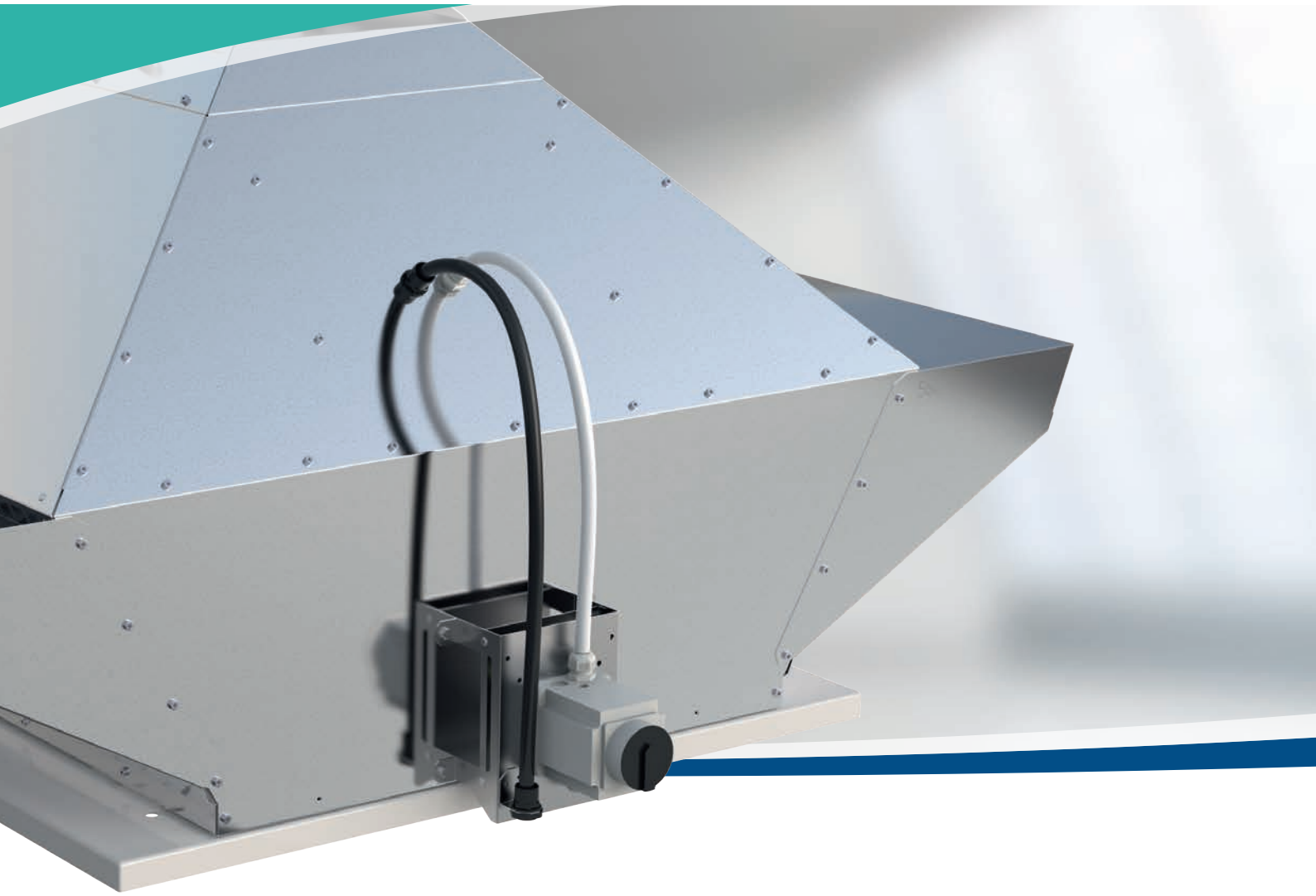
IV smart	A	B	C	D	ØE	F	G	H	I	J	K	L	M
AC	169	173	360	760	164.5	21	90	35	555.8	800	700	150	67
EC	169	173	360	760	164.5	21	90	35	555.8	800	700	150	67

Dimensions in mm.

Technical data

IV smart		AC	EC
Art. no.		*38372*	*38373*
Frequency	Hz	50/60	50/60
Voltage		230 V	230 V
Phase	~	1	1
Fan impeller speed	r.p.m.	2350/2560	2630
Power	kW	0.46/0.71	0.35
Current	A	1.9/3	2.6
Thrust	N	12/13	12
Max. airflow	m^3/h	2340/2556	2280
Sound pressure level at 3m (20m^2 Sabine)	dB(A)	73/74	72
Weight	kg	20	17

Smoke extract fans



Smoke Extract Fans

Safety-relevant applications require customised solutions without compromise. As one of the leading suppliers in the field of ventilation technology, Systemair offers a very large range of smoke extract fans designed according to most up to date technology standards, combining safety with energy efficiency, on products tested in the Systemair R&D factilities, certified by European notfied bodies.

Applications

Systemair smoke and heat extract fans covers the following temperature classes

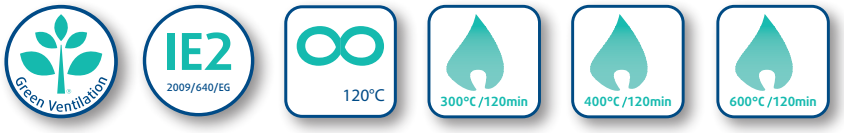
F250 – 250 °C/120 min.
F300 – 300 °C/120 min.
F400 – 400 °C/120 min.
F600 – 600 °C/120 min.

Typical applications:

- In mechanical smoke and heat extract systems installed in shopping centres, airports, industrial buildings, big cinemas and theatres, warehouses etc.
- For industrial process air with increased temperatures
- Car park and tunnel ventilation

Certified in accordance with EN 12101-3

Systemair smoke and heat extract fans have been certified in accordance with EN 12101-3. CE certification in accordance with EN 12101-3, 2002-06. Systemair is ISO 9001 certified. The Systemair quality is regularly monitored by TÜV Süd.



Mechanical smoke extraction system

Fire develops smoke and heat. Within buildings these two factors represent a substantial danger for human beings, animals and the inventory. Constantly rising temperatures might lead to a so-called "flash-over", where the fire spreads like an explosion.

Buildings must be designed in a way that spreading of smoke and heat in case of a fire can be kept as small as possible. Escape routes have to be kept free of smoke to a largest possible extent, and fire fighting routes for the fire services have to be created.

Contrary to natural smoke outlets (i.e. roof openings), mechanical smoke and heat extract systems immediately provide full capacity.

Mechanical smoke and heat extract systems are particularly important for:

- High rooms without windows
- Underground floors and rooms
- Buildings with a constantly high wind load
- Large rooms with a high fire load
- Rooms with sprinkler systems, working against the thermal lift.

Systemair range

Systemair offers different types of smoke and heat extract fans: Centrifugal roof fans, centrifugal wall/duct fans and axial fans.
All fans are approved for dual purpose ventilation, i.e. for normal daily ventilation and for emergency ventilation in case of a fire. DVV roof fans are also available as DVV/120 fans for continuous exhaust of air up to 120°C. Tailormade accessory systems complete the range.

MUB/F 322



Smoke extract fan

DVG-V EC 336



Smoke extract roof fan, with EC motor, vertical exhaust

KVB/F 352



Smoke extract box fan

DVV/F 328



Smoke extract roof fan

DVG-H 365



Smoke extract roof fan, horizontal exhaust

AXC(B), AXC(F) 356



Smoke extract axial fan

DVG-H EC 336



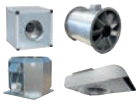
Smoke extract roof fan, with EC motor, horizontal exhaust

DVG-V 365



Smoke extract roof fan, vertical exhaust

Pressure Differential Systeme 360



Staircase Pressure Differential Systems

MUB/F

Smoke extract fan



400°C /120min

Smoke extract fans

- Speed controllable via frequency inverter
- Discharge direction can be adjusted on site
- Low sound level
- Certified in accordance with EN 12101-3

The MUB/F smoke extract fans are suitable for the exhaust of hot smoke gases and for daily ventilation requirements.

Casing
Self-supporting design made from profiled steel frame. Double-skin panels made from galvanised steel and 20 mm mineral wool acoustic and thermal insulation.

Motor
Single or two speed fire rated high temperature motors.

Impeller geometry
Radial impeller with backward cuved blades made from galvanised sheet steel.

Output control
Speed controllable via frequency inverter.

You can find more information in our online catalogue on www.systemair.com

Accessories



EVH AXC
Flex. connection
Page 563



GFL-AR/AXC
Counterflange
Page 562



RSA(F)
Silencer
Page 556



SD-MUB
Vibration pad
Page 541



LRK(F)
Autom. shutter
Page 561

Electrical accessories



AES
Switching device
Page 481

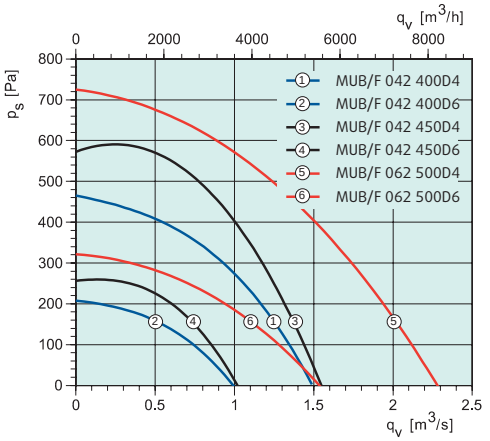


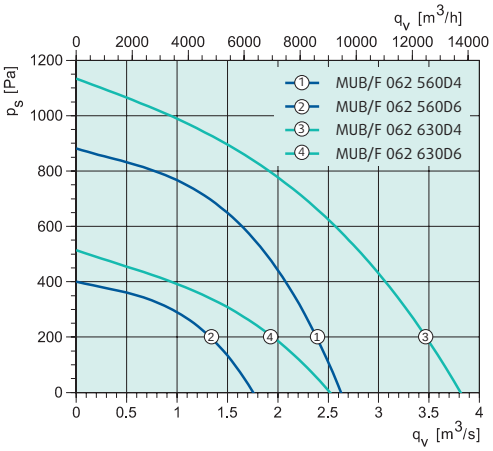
REV
Switching device
Page 510



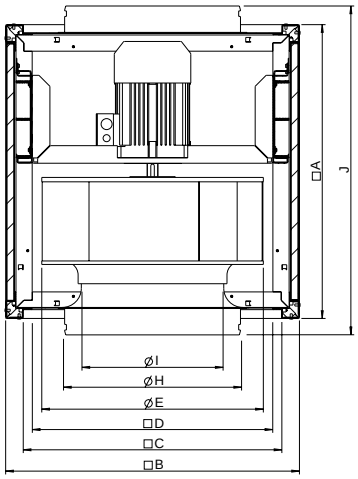
FRQS
Frequency inverter
Page page 490

Quick selection





Dimensions



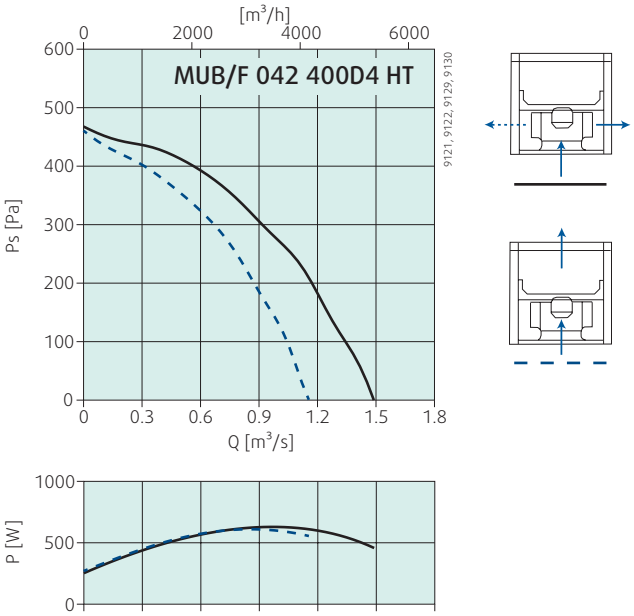
MUB/F	□A	□B	□C	□D	øE	øH	øI	J max.
042 400	670	670	590	548	410	400	289	783
042 450	670	670	590	548	454	400	289	783
062 500	800	800	720	676	520	560	364	915
062 560	800	800	720	676	570	560	364	915
062 630	800	800	720	676	650	630	456	915

Technical data

MUB/F		MUB/F 042 400D4 HT	MUB/F 042 400D4-6 HT	MUB/F 042 450D4 HT	MUB/F 042 450D4-6 HT	MUB/F 062 500D4 HT	MUB/F 062 500D4-6 HT
Art. no.		*33290*	*33292*	*33293*	*33295*	*33296*	*33298*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	YY	Y	YY	Y	YY
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	629	629/273	858	858/372	1762	1749/728
Current	A	1.32	1.32/0.795	1.63	1.63/0.9	3.26	3.26/1.76
Starting current	A	7.2	2.6/2	9.8	13.1/3.8	19.8	26.7/7.1
Max. airflow	m^3/h	5360	5360/3571	5688	5688/3730	8176	8176/5515
Fan impeller speed	r.p.m.	1461	1461/980	1446	1446/971	1440	1440/967
Max. temperature of transported air	°C	55	55	55	55	55	55
Max. temp. of transported air for 120 min	°C	400	400	400	400	400	400
Sound pressure level at 10 m (free field)	dB(A)	30.9	30.9/23.4	33.2	33.2/25.3	42	42/30.9
Sound pressure level at 4 m (free field)	dB(A)	38.9	38.9/31.4	41.2	41.2/33.3	50	50/38.9
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	54.9	54.9/47.4	57.2	57.2/49.3	66	66/54.9
Weight	kg	82	89	94	97	119	122
Insulation class		H	H	H	H	H	H
Enclosure class	IP	55	55	55	55	55	55

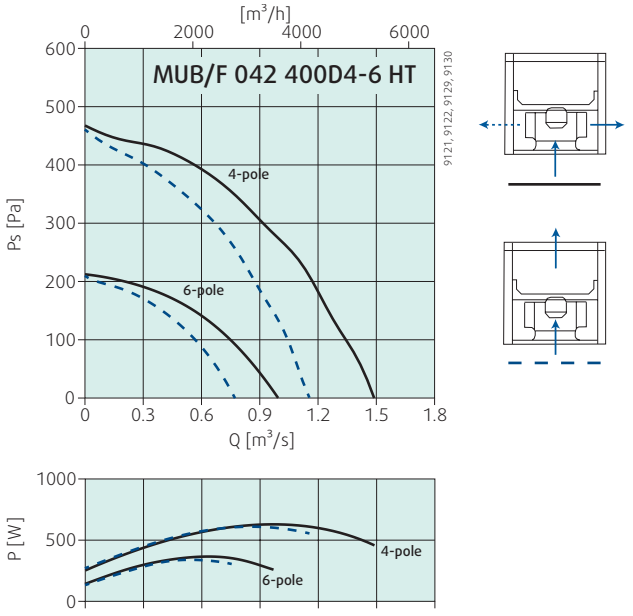
MUB/F		MUB/F 062 560D4 HT	MUB/F 062 560D6 HT	MUB/F 062 560D4-6 HT	MUB/F 062 630D4 HT	MUB/F 062 630D6 HT	MUB/F 062 630D4-6 HT
Art. no.		*33299*	*33300*	*33301*	*33302*	*33303*	*33304*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	Y	YY	D	Y	YY
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	2501	964	2501/964	4852	1689	4852/1689
Current	A	4.58	2.47	4.58/2.47	8.58	3.93	8.58/3.93
Starting current	A	29	9.6	36.3/10	56.6	22	74/19.8
Max. airflow	m^3/h	9565	6361	9565/6361	13770	9058	13770/9058
Fan impeller speed	r.p.m.	1440	972	1440/972	1459	979	1459/979
Max. temperature of transported air	°C	55	55	55	55	55	55
Max. temp. of transported air for 120 min	°C	400	400	400	400	400	400
Sound pressure level at 10 m (free field)	dB(A)	44.8	33.9	44.8/33.9	50.8	39.7	50.8/39.7
Sound pressure level at 4 m (free field)	dB(A)	52.8	41.9	52.8/41.9	58.8	47.7	58.8/47.7
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	68.8	57.9	68.8/57.9	74.8	63.7	74.8/63.7
Weight	kg	134	126	138	146	144	168
Insulation class		H	H	H	H	H	H
Enclosure class	IP	55	55	55	55	55	55

Performance

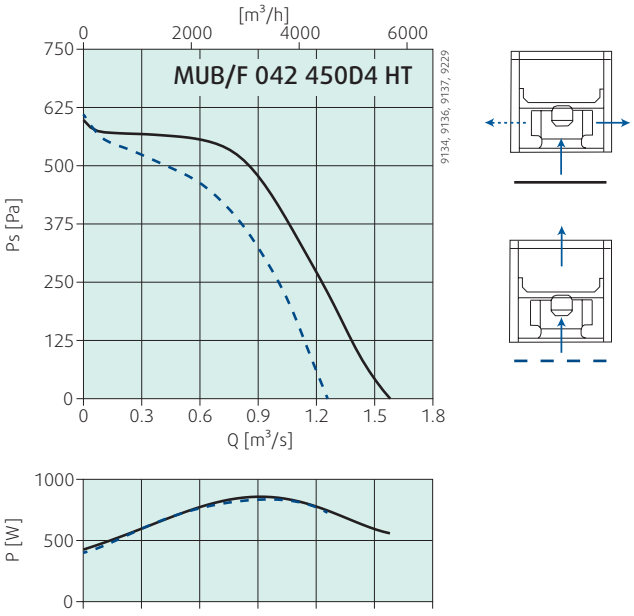


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	62	66	72	70	69	65	63	59
L_{wA} Outlet dB(A)	73	60	58	64	65	67	66	62	57
L_{wA} Surrounding dB(A)	62	33	45	61	51	50	45	41	39

Measurement point: 966 l/s; 150 Pa

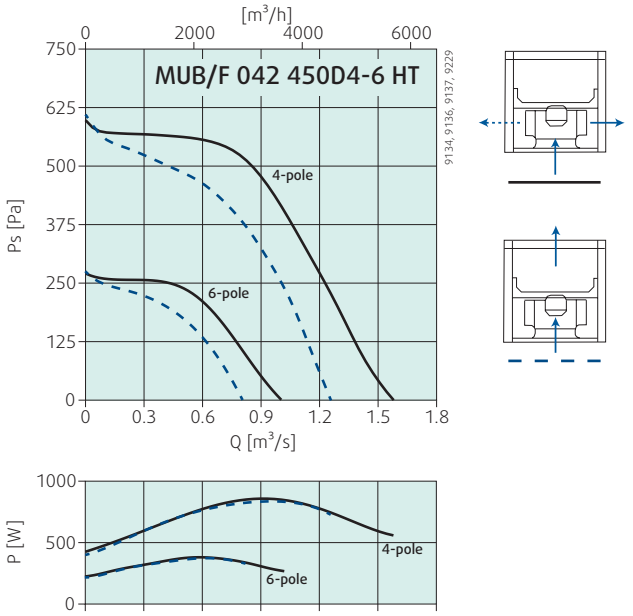


Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	62	69	71	71	69	67	64	58
L_{wA} Outlet dB(A)	78	53	65	69	71	73	71	67	59
L_{wA} Surrounding dB(A)	62	42	49	61	51	50	47	42	38
Measurement point: 769.8 l/s; 349.4 Pa									
6-pole									
L_{wA} Inlet dB(A)	67	55	60	60	61	58	57	54	45
L_{wA} Outlet dB(A)	68	45	59	57	63	62	61	55	45
L_{wA} Surrounding dB(A)	64	24	41	50	51	40	36	31	27
Measurement point: 520 l/s; 155 Pa									



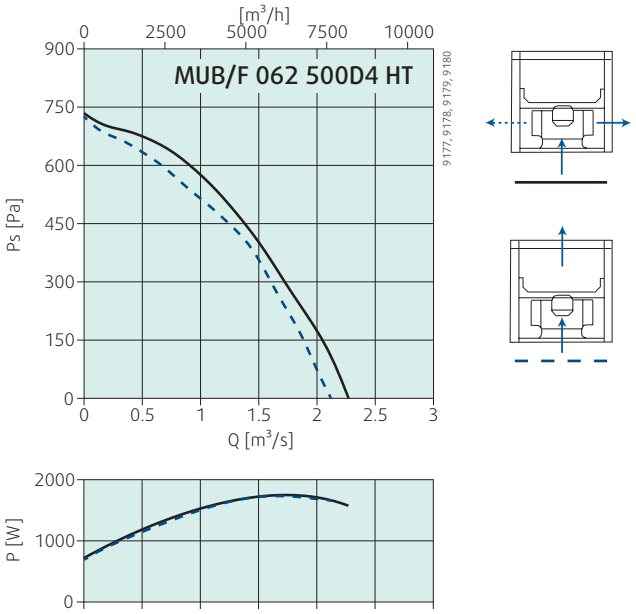
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	45	69	68	71	72	74	74	65
L_{wA} Outlet dB(A)	79	53	67	68	72	72	72	71	61
L_{wA} Surrounding dB(A)	64	31	58	58	54	57	53	54	47

Measurement point: 922.2 l/s; 465.5 Pa



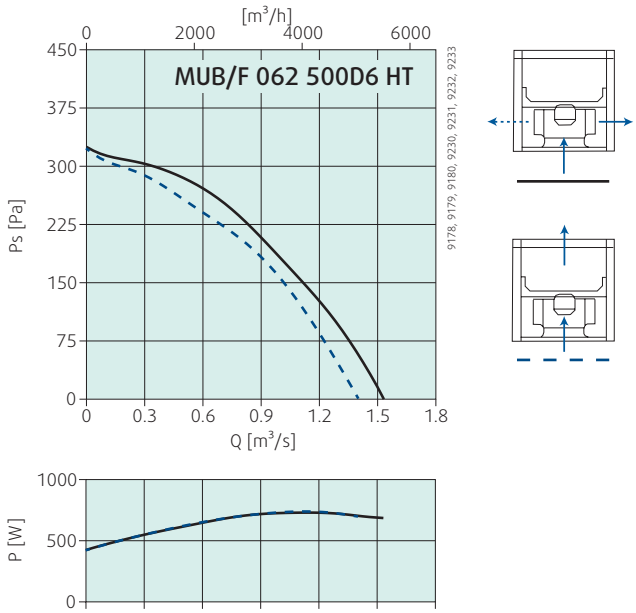
Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	45	69	68	71	72	74	74	65
L_{wA} Outlet dB(A)	79	53	67	68	72	72	72	71	61
L_{wA} Surrounding dB(A)	64	31	58	58	54	57	53	54	47
Measurement point: 922.2 l/s; 465.5 Pa									
6-pole									
L_{wA} Inlet dB(A)	71	46	56	59	62	64	68	60	51
L_{wA} Outlet dB(A)	71	45	54	57	65	65	67	57	51
L_{wA} Surrounding dB(A)	56	28	47	51	50	49	47	39	32
Measurement point: 589.4 l/s; 215.7 Pa									

Performance

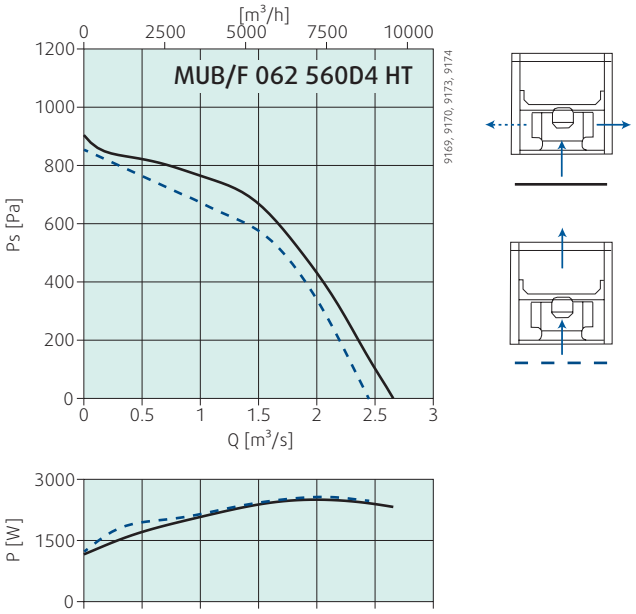


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	69	78	78	78	75	75	74	65
L_{wA} Outlet dB(A)	80	57	68	70	72	75	73	72	63
L_{wA} Surrounding dB(A)	73	51	65	70	62	62	65	61	46

Measurement point: 1164.7 l/s; 526.2 Pa

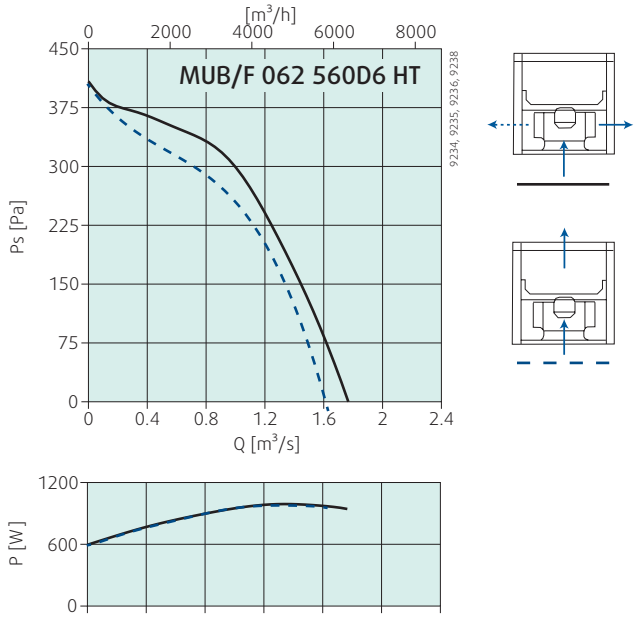


Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	62	69	65	67	65	67	61	50
L_{wA} Outlet dB(A)	71	59	61	58	62	65	65	61	52
L_{wA} Surrounding dB(A)	62	42	57	56	52	52	55	48	32
Measurement point: 741.1 l/s; 216.2 Pa									
6-pole									
L_{wA} Inlet dB(A)	74	60	69	65	67	65	68	62	51
L_{wA} Outlet dB(A)	71	55	65	60	63	65	65	60	48
L_{wA} Surrounding dB(A)	62	41	57	55	51	52	55	48	33
Measurement point: 792.5 l/s; 234.8 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	75	81	78	76	74	75	75	69
L_{wA} Outlet dB(A)	86	65	84	75	76	76	75	74	67
L_{wA} Surrounding dB(A)	76	55	74	68	64	63	62	59	50

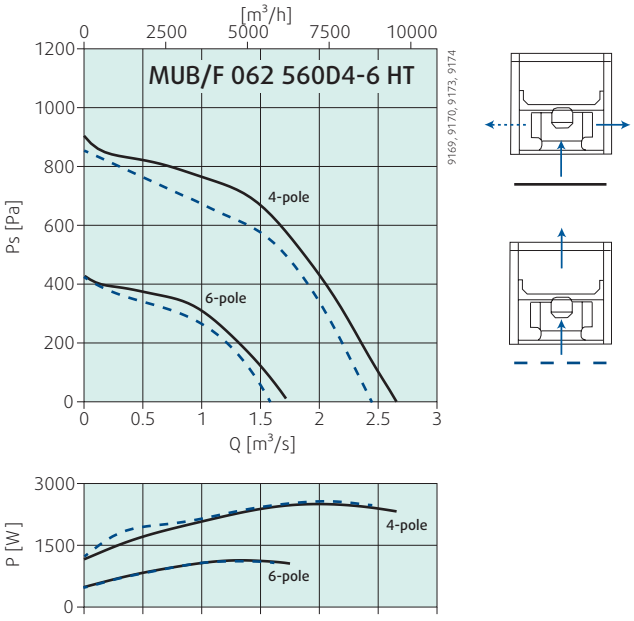
Measurement point: 1476.7 l/s; 676.2 Pa



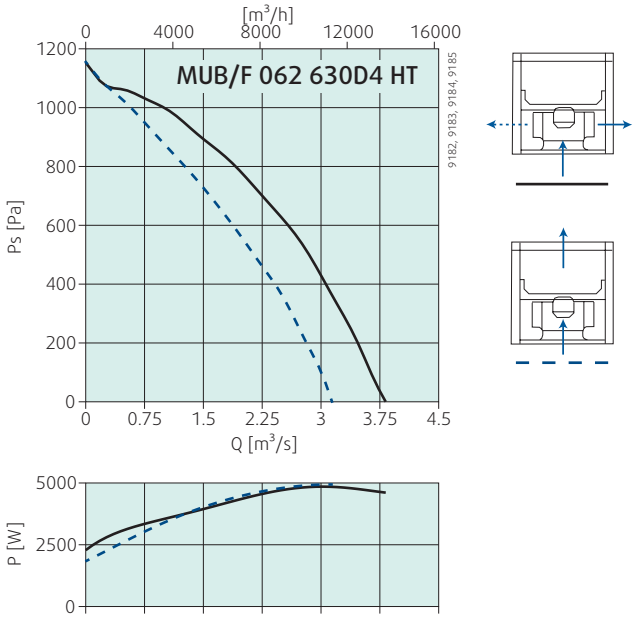
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	63	71	67	66	66	67	64	56
L_{wA} Outlet dB(A)	73	56	64	65	65	66	65	63	54
L_{wA} Surrounding dB(A)	65	46	60	59	55	56	57	54	40

Measurement point: 990 l/s; 301.5 Pa

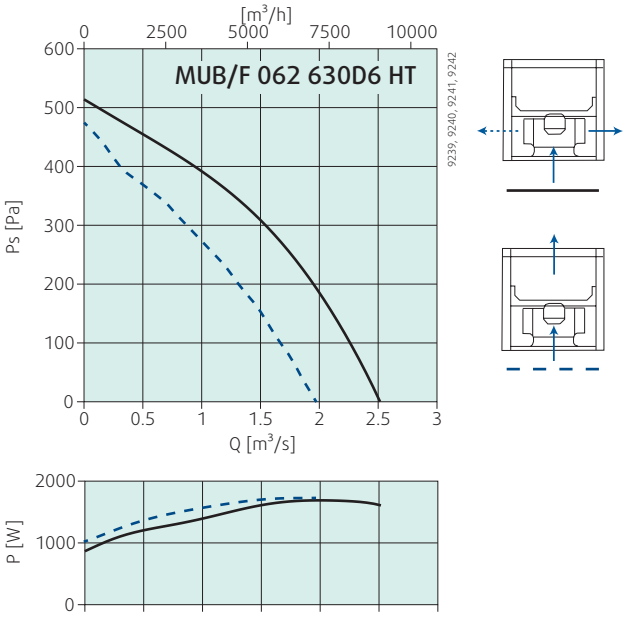
Performance



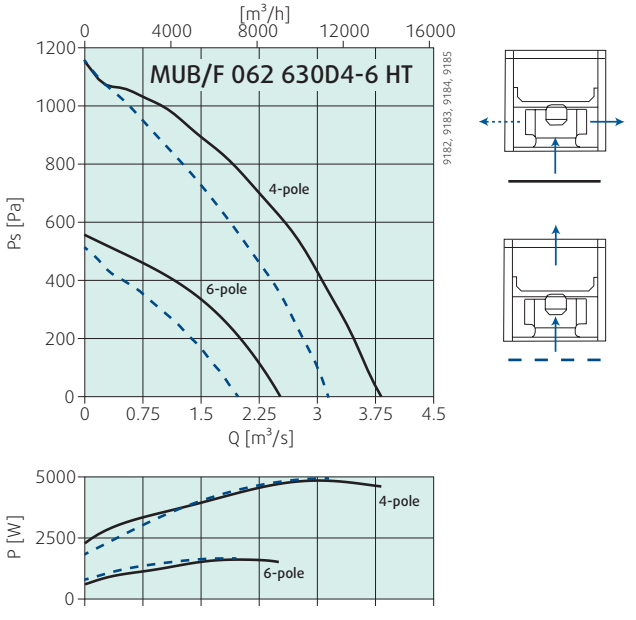
Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	75	81	78	76	74	75	75	69
L_{wA} Outlet dB(A)	86	65	84	75	76	76	75	74	67
L_{wA} Surrounding dB(A)	76	55	74	68	64	63	62	59	50
Measurement point: 1476.7 l/s; 676.2 Pa									
6-pole									
L_{wA} Inlet dB(A)	76	63	71	67	66	66	67	64	56
L_{wA} Outlet dB(A)	73	56	64	65	65	66	65	63	54
L_{wA} Surrounding dB(A)	65	46	60	59	55	56	57	54	40
Measurement point: 990 l/s; 301.5 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	74	83	85	86	85	83	79	72
L_{wA} Outlet dB(A)	94	85	83	87	87	87	85	80	74
L_{wA} Surrounding dB(A)	82	58	72	80	69	69	71	66	56
Measurement point: 1911.9 l/s; 800 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	65	76	75	76	74	71	67	64
L_{wA} Outlet dB(A)	81	68	74	72	75	75	72	67	62
L_{wA} Surrounding dB(A)	71	46	67	64	60	60	61	55	45
Measurement point: 1260.3 l/s; 352.4 Pa									



Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	74	83	85	86	85	83	79	72
L_{wA} Outlet dB(A)	94	85	83	87	87	87	85	80	74
L_{wA} Surrounding dB(A)	82	58	72	80	69	69	71	66	56
Measurement point: 1911.9 l/s; 800 Pa									
6-pole									
L_{wA} Inlet dB(A)	82	65	76	75	76	74	71	67	64
L_{wA} Outlet dB(A)	81	68	74	72	75	75	72	67	62
L_{wA} Surrounding dB(A)	71	46	67	64	60	60	61	55	45
Measurement point: 1260.3 l/s; 352.4 Pa									



DVV/F

Smoke extract fan



IE2 2009/640/EG | 400°C /120min | 600°C /120min | 120°C

Smoke extract fans

- Speed controllable via frequency inverter
- Transported air temperatures of up to 120°C in continuous operation
- Low sound level
- Vertical discharge
- Certified in accordance with EN 12101-37
- Sound absorbing hood (HSDV) available as accessory
- Snow load flaps available as accessories (SL 1000)

Accessories



ASFV
Inlet flange
Page 555



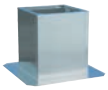
ASG/F
Connection box
Page 543



ASSG/F
Flex. connection
Page 555



VKG/F
Automatic shutter
Page 554



SSG/F
Roof socket
Page 549



SSGE/F
Roof socket
Page 548



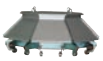
FDG/F
Flat roof socket
Page 547



FDGE/F
Roof socket
Page 546



HSDV
Silencer
Page 552



FSL
Flaps, snow load
Page 552

Electrical accessories



AES
Switching device
Page 481



REV
Switching device
Page 510



FRQS
Frequency inverter
Page page 490

The DVV centrifugal roof fans are suitable for the exhaust of hot smoke gases and daily ventilation requirements.

Casing
Octagonal casing and motor cover, made from sea water resistant aluminium, with a bird protection guard. Base frame made from hot-dip galvanized steel.

Motor
IEC flange motors, as well as IEC flange motors which comply with efficiency Class IE2 where applicable..

Impeller geometry
Radial impeller with backward curved blades made from electro-galvanised sheet steel.

Output control
Control via voltage reduction is not possible for IE2 motors. Motors can be controlled via frequency inverters.

Motor protection
Integrated PTC thermistors.

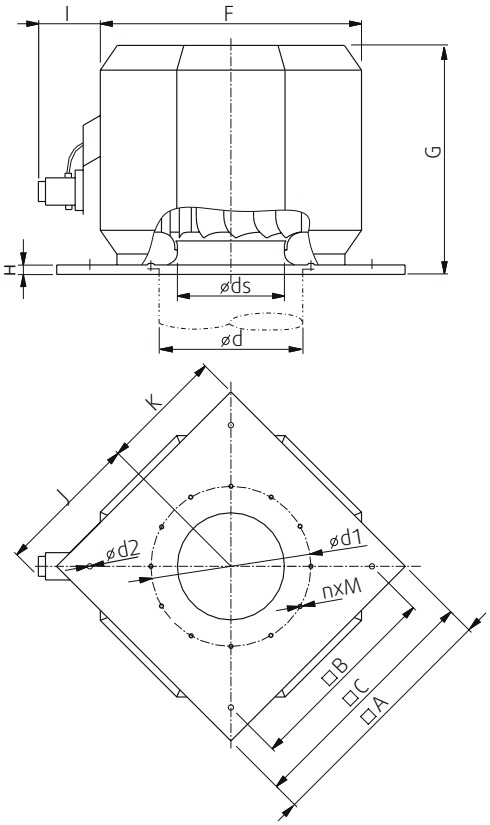
Snow load
Serial execution is intended for installation on heated buildings (SL 0). With mounted accessory FSL (slow load flaps) SL 1000 can be achieved.

EMC
Shielded cable from motor to service switch is available as an option (see online-catalogue).

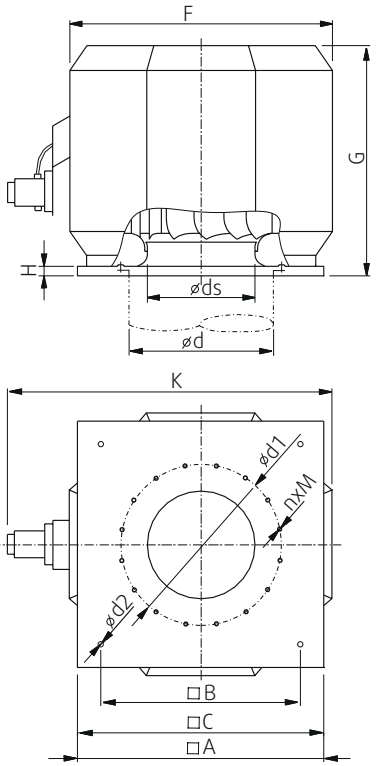
You can find more information in our online catalogue on www.systemair.com

Dimensions

DVV/F 560 / 630 / 1000



DVV/F 800



DVV/F	□A	□B	□C	ød	ød1	ød2	øds	F	G	H	I	J	K	nxM
560	943	750	939	560	620	14	361	892	990	30	311	554	472	12xM8
630	1039	840	1035	630	690	14	451	1100	964	40	289	619	519.5	12xM8
800	1255	1050	1251	800	860	14	581	1350	1280/1105*	40	-	-	1688	16xM8
1000	1255	1050	1251	800	860	14	675	1500	1490	40	345	800	627.5	16xM8

* for DVV 800 D6-XS; DVV 800D4-XL; DVV 800D6-XL

Technical data

DVV/F		DVV 560D4-XS	DVV 560D4-XM	DVV 560D4-XL	DVV 560D4-6-XL	DVV 630D4-XL	DVV 630D4-6-XL
Art. no. F400		*95437*	*95436*	*95352*	*95413*	*95303*	*95304*
Art. no. F600		*95509*	*95510*	*95511*	*95512*	*95515*	-
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	Y	Y	Y/Y	D	Y/Y
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	1500	2173	2605	2700/1100	6401	6833/2294
Current	A	4	4.7	5.4	5.4/2.3	11	11.9/4.6
Starting current	A	32	32	32	25/7.5	70	82/20
Max. airflow	m^3/h	8000	10150	10800	10800/7250	20900	20900/13600
Fan impeller speed	r.p.m.	1460	1442	1445	1445/965	1461	1445/965
Max. temperature of transported air	°C	120	120	120	120	120	120
Max. temp. of transported air for 120 min	°C	400/600	400/600	400/600	400/600	400/600	400
Sound pressure level at 4 m (free field)	dB(A)	66	68	69	69/59	75	75/64
Sound pressure level at 10 m (free field)	dB(A)	59	61	62	62/52	69	69/58
Weight	kg	89/102	91/104	93/106	96/109	150/164	168
Insulation class		F	F	F	F	F	F
Enclosure class	IP	55	55	55	55	55	55

Technical data

DVV/F		DVV 630D6-XL	DVV 630D4-XS	DVV 800D4-XL	DVV 800D6-XL	DVV 800D4-6-XL	DVV 800D4-XS
Art. no. F400		*95305*	*95306*	*95307*	*95308*	*95309*	*95311*
Art. no. F600		*95514*	*95513*	*95521*	*95520*	*95522*	*95518*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	D	D	D	Y/Y	D
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	2093	3709	18533	5595	19138/5966	12887
Current	A	4.5	6.64	34.6	11.2	35.4/17.1	22
Starting current	A	25	43	265	66	258/99	140
Max. airflow	m^3/h	13600	15000	40000	26500	40000/26500	31500
Fan impeller speed	r.p.m.	940	1441	1461	955	1472/988	1461
Max. temperature of transported air	°C	120	120	120	120	120	120
Max. temp. of transported air for 120 min	°C	400/600	400/600	400/600	400/600	400/600	400/600
Sound pressure level at 4 m (free field)	dB(A)	64	71	83	71	83/71	76
Sound pressure level at 10 m (free field)	dB(A)	58	63	75	64	75/64	70
Weight	kg	123/138	130/144	372/403	225/247	401/432	260/282
Insulation class		F	F	F	F	F	F
Enclosure class	IP	55	55	55	55	55	55

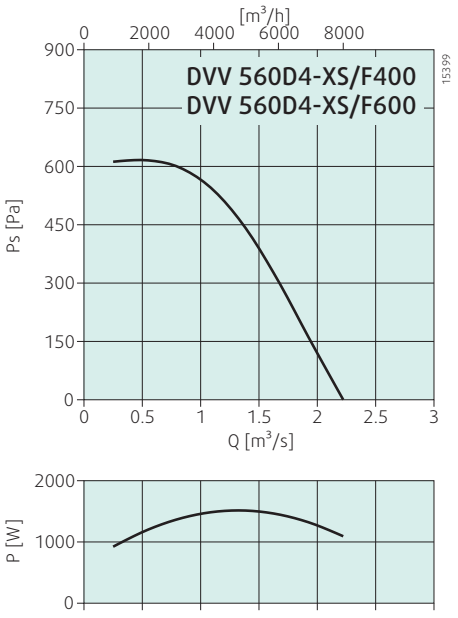
DVV/F		DVV 800D6-XS	DVV 800D4-6-XS	DVV 1000D6-XL	DVV 1000D6-8-XL	DVV 1000D8-XL	DVV 1000D4-XM
Art. no. F400		*95312*	*95313*	*95342*	*95343*	*95344*	*95388*
Art. no. F600		*95517*	*95519*	*95525*	*95524*	*95523*	*95529*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y	Y/Y	D	Y/Y	D	D
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	3751	14404/4270	11112	11112/5741	4987	22293
Current	A	6.92	25.1/8.3	21.4	21.4/14.1	10.2	39
Starting current	A	31	150/44	138	154/82.5	77	302
Max. airflow	m^3/h	20300	31500/20300	45000	45000/34000	34000	51000
Fan impeller speed	r.p.m.	932	1467/965	977	977/735	730	1472
Max. temperature of transported air	°C	120	120	120	120	120	120
Max. temp. of transported air for 120 min	°C	400/600	400/600	400/600	400/600	400/600	400/600
Sound pressure level at 4 m (free field)	dB(A)	66	76/66	74	74/66	66	86
Sound pressure level at 10 m (free field)	dB(A)	60	70/60	66	66/58	58	78
Weight	kg	224/246	310/291	400/429	459/487	359/388	430/459
Insulation class		F	F	F	F	F	F
Enclosure class	IP	55	55	55	55	55	55

DVV/F		DVV 1000D4-6-XM	DVV 1000D4-8-XM	DVV 1000D6-XM	DVV 1000D6-8-XM	DVV 1000D4-XP	DVV 1000D4-6-XP
Art. no. F400		*95389*	*95396*	*95386*	*95387*	*95391*	*95392*
Art. no. F600		*95530*	*95531*	*95527*	-	*95534*	*95535*
Voltage	V	400	400	400	400	400	400
Motor circuit connection		Y/Y	YY/Y	D	Y/Y	D	Y/Y
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	23000/7400	23916/3256	6530	6727/3326	30105	30433/9474
Current	A	43/19.9	39.8/10.4	12.8	15.8/8.3	51	53.5/17.7
Starting current	A	333/133	315/75	103	124/45	400	360/1220
Max. airflow	m^3/h	51000/32500	51000/25000	32500	32500/25000	56000	56000/37300
Fan impeller speed	r.p.m.	1475/990	1484/737	980	981/736	1473	1458/987
Max. temperature of transported air	°C	120	120	120	120	120	120
Max. temp. of transported air for 120 min	°C	400/600	400/600	400/600	400	400/600	400/600
Sound pressure level at 4 m (free field)	dB(A)	86/73	86/65	73	73/65	88	88/75
Sound pressure level at 10 m (free field)	dB(A)	78/65	78/57	65	65/57	80	80/67
Weight	kg	471/500	471/500	366/395	363	499/528	519/548
Insulation class		F	F	F	F	F	F
Enclosure class	IP	55	55	55	55	55	55

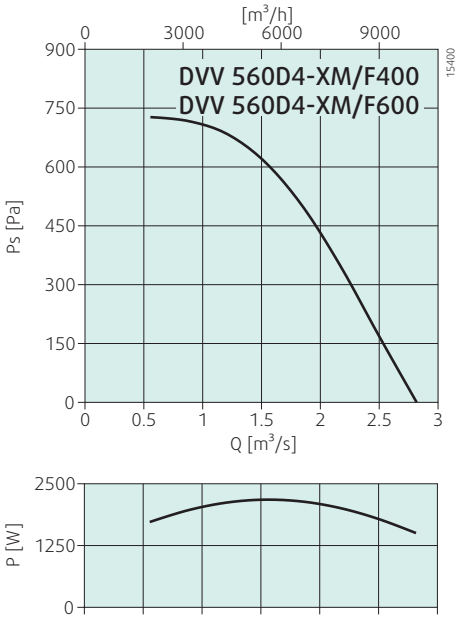
DVV/F		DVV 1000D4-8-XP	DVV 1000D6-XP	DVV 1000D6-12-XL	DVV 1000D8-XP/F600	
Art. no. F400		*95393*	*95390*	-	-	
Art. no. F600		*95536*	*95532*	*95526*	*95533*	
Voltage	V	400	400	400	400	
Motor circuit connection		YY/Y	D	YY	D	
Frequency	Hz	50	50	50	50	
Phase	~	3	3	3	3	
Input power (P1)	W	30433/4572	9057	1636	4153	
Current	A	53.5/15.5	18	5.8	8.2	
Starting current	A	362/80	170	23	59	
Max. airflow	m^3/h	56000/28000	37300	22500	28000	
Fan impeller speed	r.p.m.	1465/740	982	488	733	
Max. temperature of transported air	°C	120	120	120	120	
Max. temp. of transported air for 120 min	°C	400/600	400/600	600	600	
Sound pressure level at 4 m (free field)	dB(A)	88/67	75	61	67	
Sound pressure level at 10 m (free field)	dB(A)	80/59	67	52	59	
Weight	kg	494/523	388/417	445	373	
Insulation class		F	F	F	F	
Enclosure class	IP	55	55	55	55	



Performance



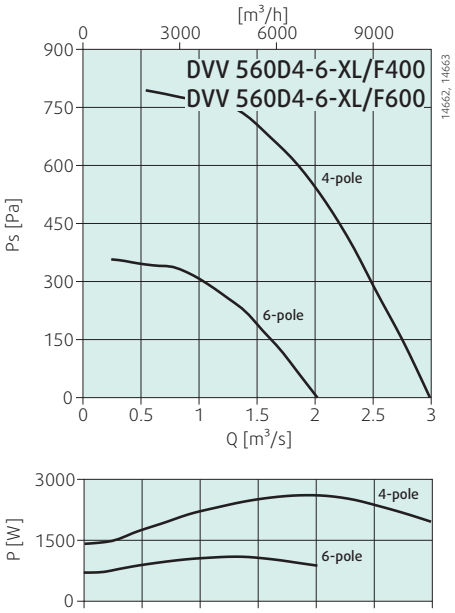
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	46	75	75	74	74	76	74	66
L_{wA} Surrounding dB(A)	84	56	66	74	78	78	7	75	67
Measurement point: 6372 m^3/h; 245 Pa									



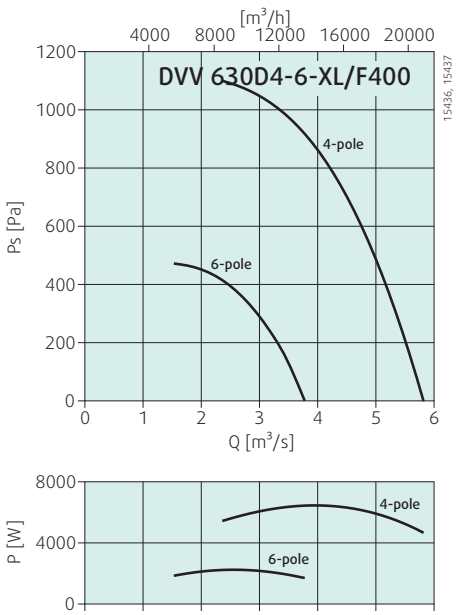
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	49	78	78	77	77	79	77	69
L_{wA} Surrounding dB(A)	87	59	69	77	81	81	82	78	70
Measurement point: 8280 m^3/h; 290 Pa									



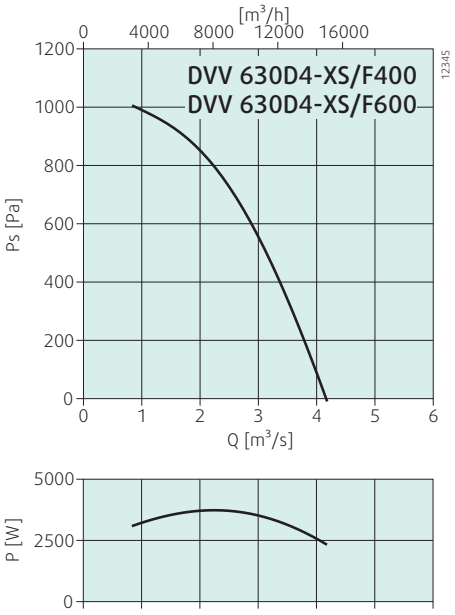
Performance



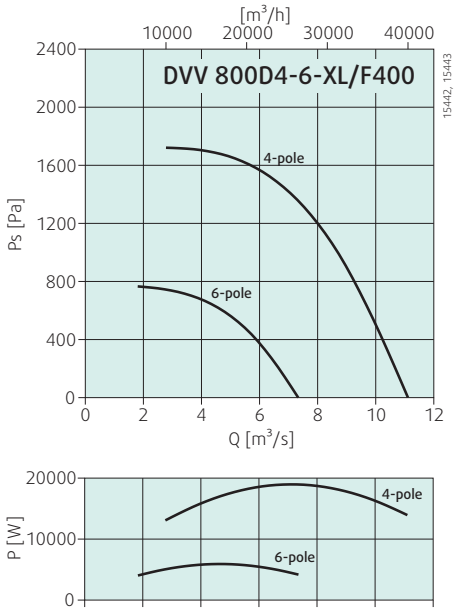
Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	90	56	82	83	81	82	84	81	79
L_{wA} Surrounding dB(A)	90	63	80	83	83	85	81	73	66
Measurement point: 8640 m³/h; 350 Pa									
6-pole									
L_{wA} Inlet dB(A)	80	50	72	73	73	72	73	64	57
L_{wA} Surrounding dB(A)	80	56	70	73	74	75	69	55	44
Measurement point: 6120 m³/h; 130 Pa									



Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	97	68	79	91	90	92	87	81	72
L_{wA} Surrounding dB(A)	98	68	87	88	91	91	91	89	79
Measurement point: 18360 m³/h; 450 Pa									
6-pole									
L_{wA} Inlet dB(A)	87	64	73	79	83	78	76	74	62
L_{wA} Surrounding dB(A)	88	65	74	80	84	79	77	75	63
Measurement point: 9360 m³/h; 370 Pa									

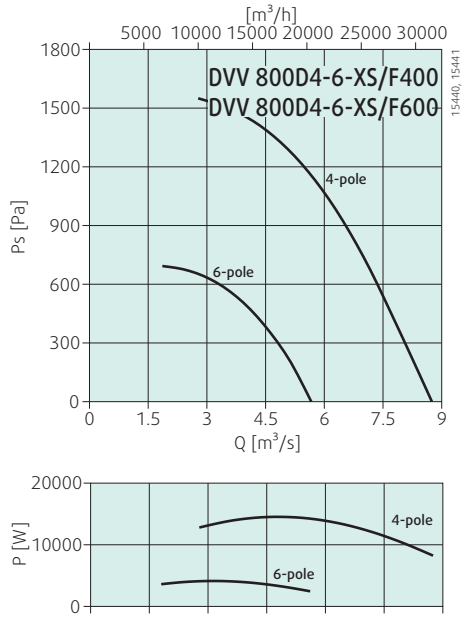


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	65	77	85	86	85	83	80	72
L_{wA} Surrounding dB(A)	94	67	79	87	88	87	85	82	74
Measurement point: 11520 m³/h; 500 Pa									

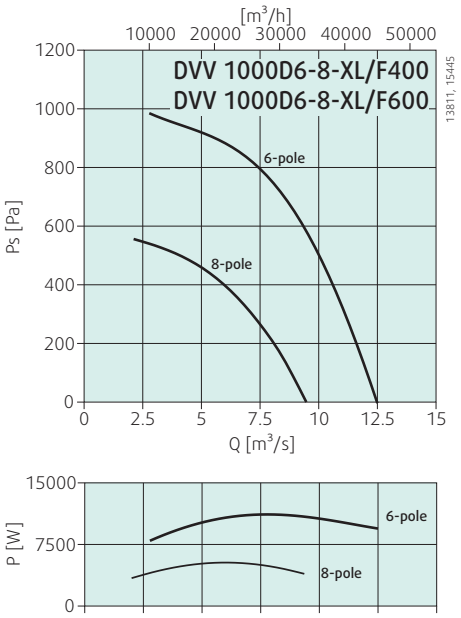


Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	104	77	89	97	98	97	95	92	84
L_{wA} Surrounding dB(A)	106	79	91	99	100	99	97	94	86
Measurement point: 33480 m³/h; 850 Pa									
6-pole									
L_{wA} Inlet dB(A)	91	67	78	80	87	82	81	77	64
L_{wA} Surrounding dB(A)	93	69	80	82	89	84	83	79	66
Measurement point: 21600 m³/h; 370 Pa									

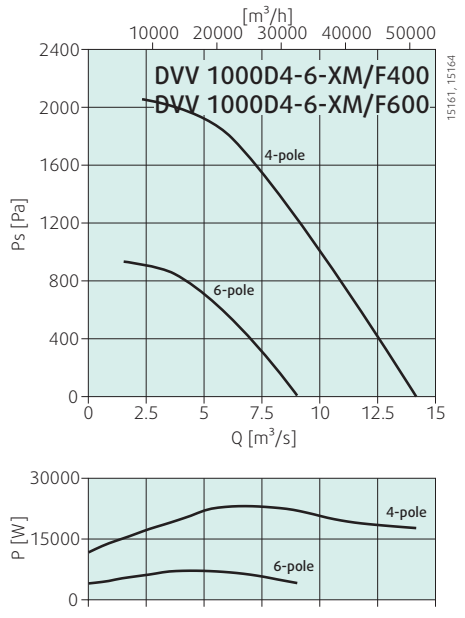
Performance



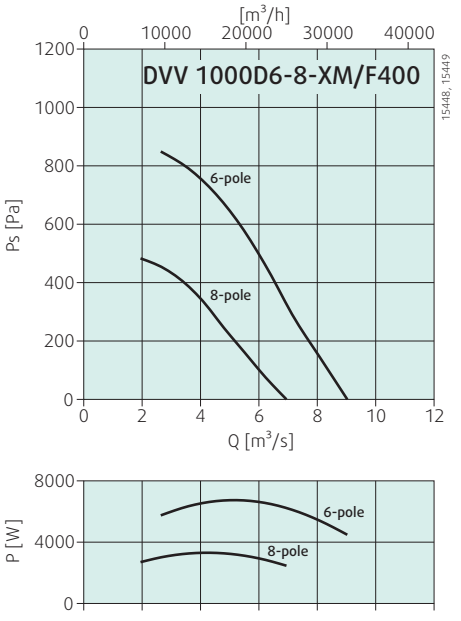
Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	98	71	83	91	92	91	89	86	78
L_{wA} Surrounding dB(A)	99	72	84	92	93	92	90	87	79
Measurement point: 23400 m³/h; 990 Pa									
6-pole									
L_{wA} Inlet dB(A)	84	60	71	73	80	75	74	70	57
L_{wA} Surrounding dB(A)	86	62	73	75	82	77	76	72	59
Measurement point: 16200 m³/h; 360 Pa									



Type	Tot	Frequency bands [Hz]							
6-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	69	78	84	88	83	81	79	67
L_{wA} Surrounding dB(A)	94	71	80	86	90	85	83	81	69
Measurement point: 24984 m³/h; 830 Pa									
8-pole									
L_{wA} Inlet dB(A)	84	66	72	75	79	76	76	71	60
L_{wA} Surrounding dB(A)	86	68	74	77	81	78	78	73	62
Measurement point: 21996 m³/h; 400 Pa									



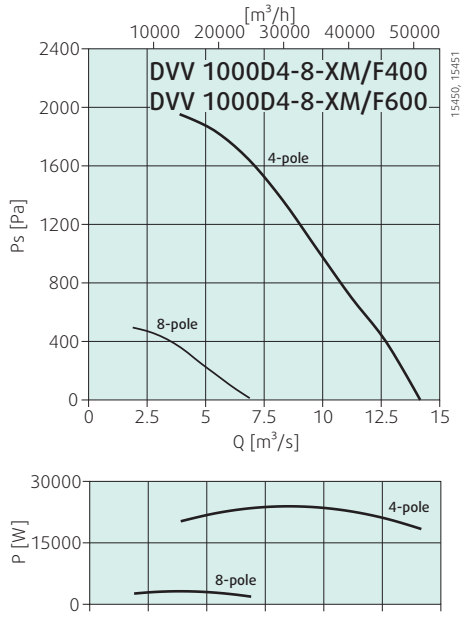
Type	Tot	Frequency bands [Hz]							
4-polig		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	104	82	91	97	100	96	94	92	80
L_{wA} Surrounding dB(A)	108	86	95	101	104	100	98	96	84
Measurement point: 26280 m³/h; 1600 Pa									
6-polig									
L_{wA} Inlet dB(A)	92	75	81	83	87	85	85	80	69
L_{wA} Surrounding dB(A)	95	78	84	86	90	88	88	83	72
Measurement point: 17280 m³/h; 660 Pa									



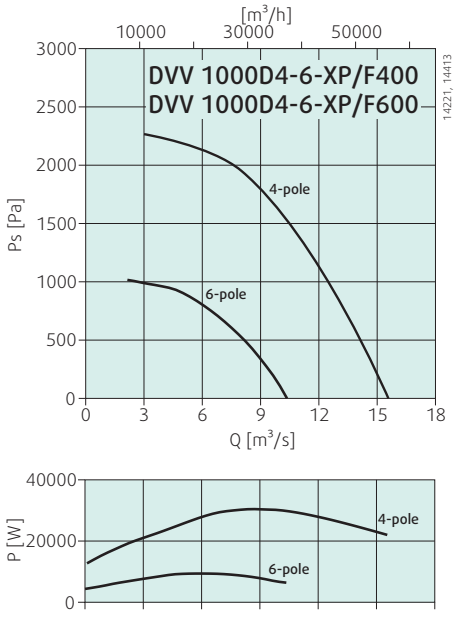
Type	Tot	Frequency bands [Hz]							
6-polig		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	75	81	83	87	85	85	80	69
L_{wA} Surrounding dB(A)	95	78	84	86	90	88	88	83	72
Measurement point: 17280 m³/h; 660 Pa									
8-polig									
L_{wA} Inlet dB(A)	84	66	72	75	79	76	76	71	60
L_{wA} Surrounding dB(A)	85	67	73	76	80	77	77	72	61
Measurement point: 11160 m³/h; 430 Pa									



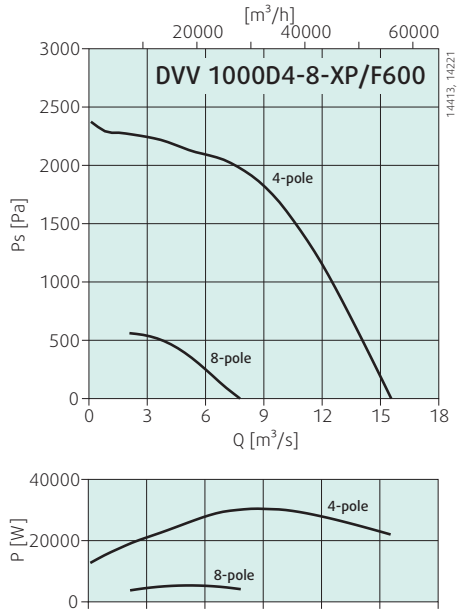
Performance



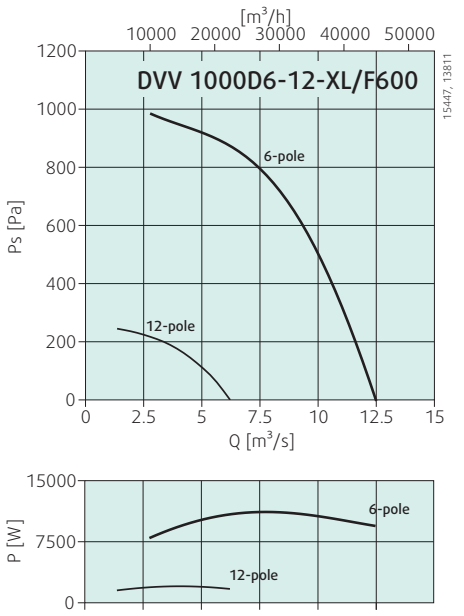
Type	Tot	Frequency bands [Hz]							
4-polig		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	104	82	91	97	100	96	94	92	80
L_{wA} Surrounding dB(A)	108	86	95	101	104	100	98	96	84
Measurement point: 26280 m³/h; 1600 Pa									
8-polig									
L_{wA} Inlet dB(A)	84	66	72	75	79	76	76	71	60
L_{wA} Surrounding dB(A)	85	67	73	76	80	77	77	72	61
Measurement point: 11160 m³/h; 430 Pa									



Type	Tot	Frequency bands [Hz]							
4-polig		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	105	82	91	97	101	96	94	92	80
L_{wA} Surrounding dB(A)	109	86	95	101	105	100	98	96	84
Measurement point: 33120 m³/h; 1800 Pa									
6-polig									
L_{wA} Inlet dB(A)	93	75	81	84	88	85	85	80	69
L_{wA} Surrounding dB(A)	96	78	84	87	91	88	88	83	72
Measurement point: 25560 m³/h; 620 Pa									



Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	105	82	91	97	101	96	94	92	80
L_{wA} Surrounding dB(A)	109	86	95	101	105	100	98	96	84
Measurement point: 33120 m³/h; 1800 Pa									
8-pole									
L_{wA} Inlet dB(A)	85	67	73	76	80	77	77	72	61
L_{wA} Surrounding dB(A)	87	69	75	78	72	79	79	74	63
Measurement point: 21960 m³/h; 230 Pa									



Type	Tot	Frequency bands [Hz]							
6-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	69	78	84	88	83	81	79	67
L_{wA} Surrounding dB(A)	94	71	80	86	90	85	83	81	69
Measurement point: 24984 m³/h; 830 Pa									
12-pole									
L_{wA} Inlet dB(A)	79	61	67	70	74	71	71	66	55
L_{wA} Surrounding dB(A)	81	63	69	72	76	73	73	68	57
Measurement point: 19296 m³/h; 85 Pa									

Installation examples for DVV/F roof fans



DVV/F
Roof fan
page 328

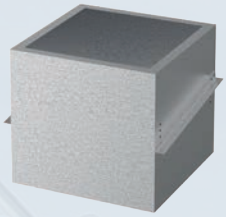
VKV/F
Automatic shutter
page 554



ASSV/F
Flexible connection
page 554



FDVE/F
Roof socket
page 546

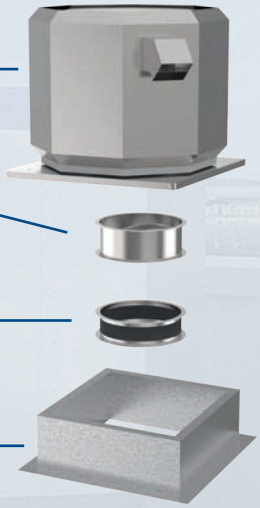


DVV/F
Roof fan
page 328

VKV/F
Automatic shutter
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ASSV/F
Flexible connection
page 554

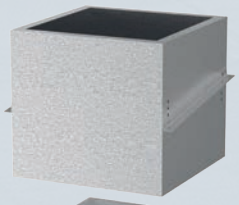
FDVE/F
Flat roof socket
page 546



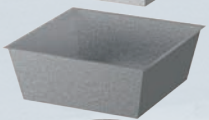


DVV/F
Roof fan
page 328

SSVE/F
Flat roof socket silencer
page 548



ASK/F
Inlet chamber
page 543



VKV/F
Automatic shutter
page 554

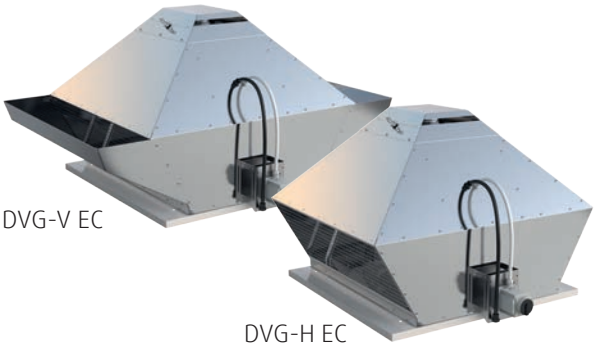


ASSV/F
Flexible connection
page 554



DVG EC

Smoke extract fan



DVG-V EC

DVG-H EC







Smoke extract fans

- Energy-saving thanks to EC motors
- Temperature of transported air up to 120 °C in continuous operation
- Maintenance switch as standard
- Vertical discharge
- Certified in accordance with EN 12101-3

The DVG centrifugal roof fans are suitable for the exhaust of hot smoke gases and daily ventilation requirements.

Casing
The casing is manufactured from sea water resistant aluminium, and equipped with a bird guard. Base frame manufactured from hot dip galvanised steel.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Radial impeller with backward curved blades manufactured from galvanised steel.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics. An additional motor protection switching device is not required.

You can find more information in our online catalogue on www.systemair.com

Accessories



ASFV
Inlet flange
Page 555



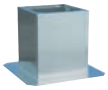
ASG/F
Connection box
Page 543



ASSG/F
Flex. connection
Page 555



VKG/F
Automatic shutter
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SSG/F
Roof socket
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SSGE/F
Roof socket
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FDG/F
Flat Roof socket
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FDGE/F
Roof socket
Page 546

Electrical accessories



CO2RT
Transmitter
Page 501



CO2
Sensor
Page 497



EC-Vent/Basic
Control unit
Page 485



DSG
Pressure sensor
Page 497

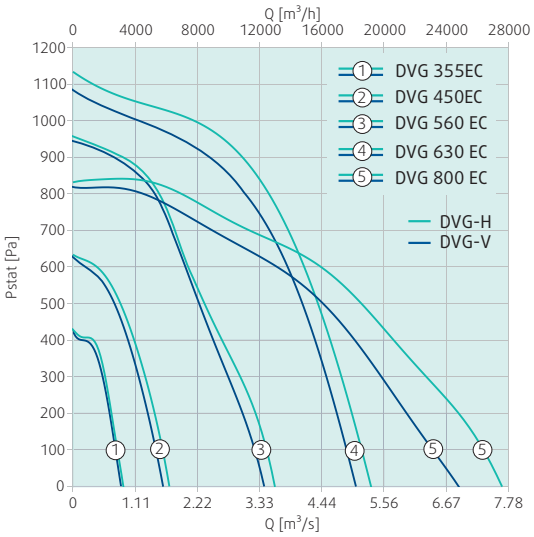


MTP
Speed control
Page 484



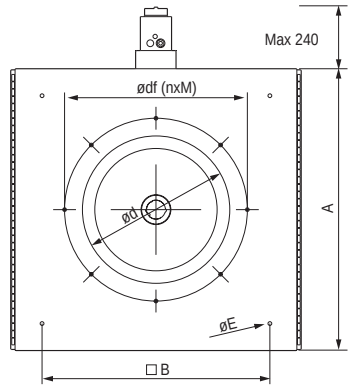
MTV
Speed control
Page 487

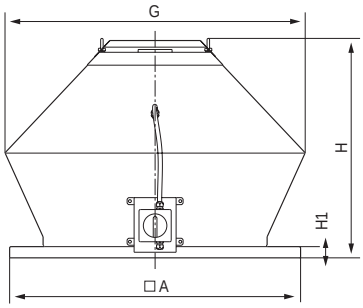
Quick selection



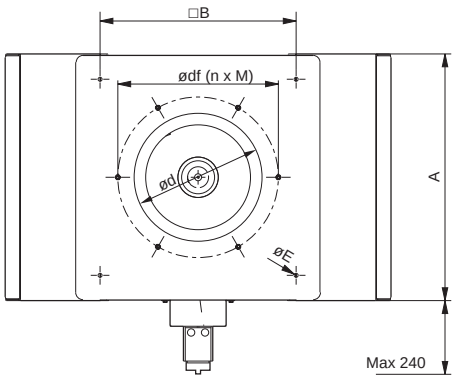
Dimensions

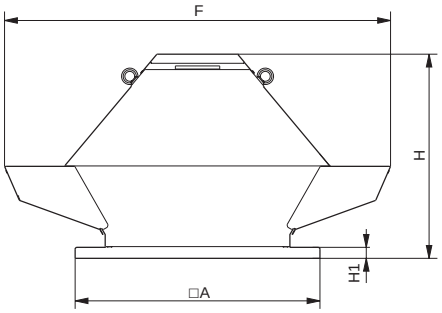
DVG-H





DVG-V





DVG EC	□A	□B	øE	F	G	ød	ødf (n x M)	H1	H
355 EC	598	450	12	1003	704	400	438 (6xM8)	30	567
450 EC	668	535	12	1261	854	400	438 (6xM8)	30	637
560 EC	943	750	14	1540	1078	560	605 (8xM8)	30	773
630 EC	1039	840	14	1573	1072	630	674 (8xM8)	40	858
800 EC	1255	1050	14	2024	1280	800	872 (8xM8)	40	999

Technical data

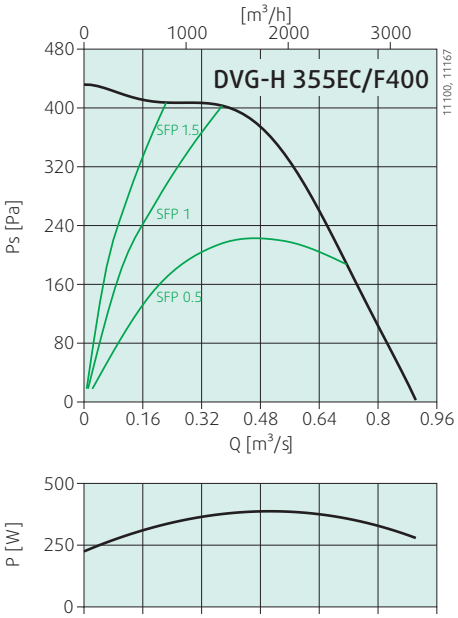
DVG-H EC		DVG-H 355EC F400	DVG-H 450EC F400	DVG-H 560EC F400	DVG-H 630EC F400	DVG-H 800EC F400
Art. no.		95251	95252	95253	95254	95255
Voltage	V	230	230	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	3	3	3
Input power (P1)	W	395	930	2420	5060	4860
Current	A	1.8	4	3.7	8	7.7
Max. air flow	m^3/h	3250	6200	13100	19200	27600
Fan impeller speed	r.p.m	1500	1450	1400	1455	930
Max. temperature of transported air	°C	120	120	120	120	120
* when speed-controlled	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	59	67	75	78	81
Sound pressure level at 10 m (free field)	dB(A)	53	60	69	72	72
Weight	kg	45	53	101	110	200
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54

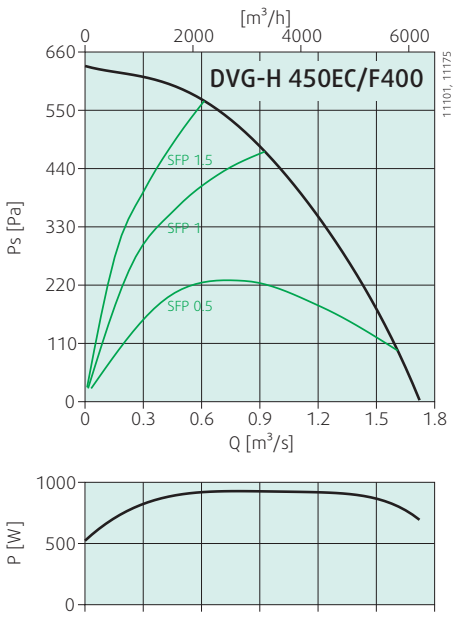
Technical data

DVG-V EC		DVG-V 355EC/ F400	DVG-V 450EC/ F400	DVG-V 560EC/ F400	DVG-V 630EC/ F400	DVG-V 800EC/ F400
Art. no.		*95256*	*95257*	*95135*	*95136*	*95137*
Voltage	V	230	230	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	3	3	3
Input power (P1)	W	395	930	2490	5050	4780
Current	A	1.8	4	3.8	7.9	7.7
Max. air flow	m^3/h	3100	5800	12300	18200	25100
Fan impeller speed	r.p.m	1500	1450	1400	1465	930
Max. temperature of transported air	°C	120	120	120	120	120
* when speed-controlled	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	56	65	72	75	74
Sound pressure level at 10 m (free field)	dB(A)	50	58	67	69	66
Weight	kg	43	57	106	115	199
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54



Performance

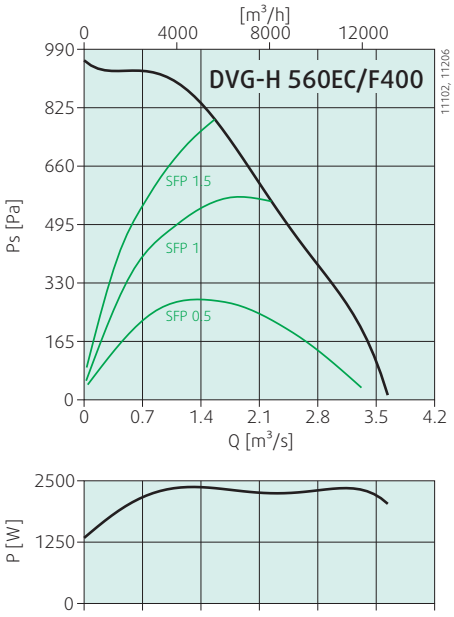




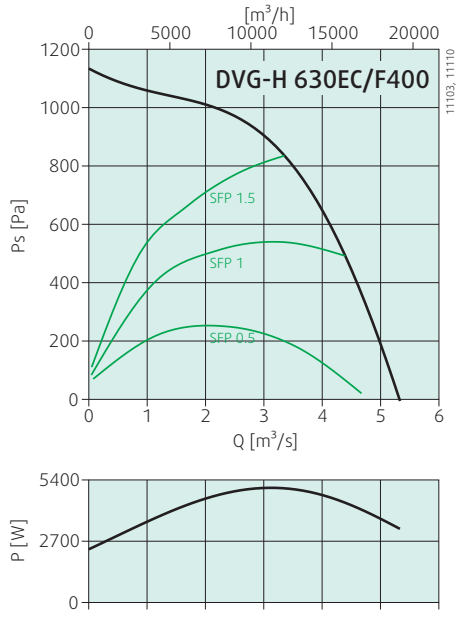
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	54	74	74	72	73	72	67	64
L_{wA} Outlet dB(A)	77	55	66	73	68	70	69	64	54
Measurement point: 1951 m^3/h; 340 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	56	71	73	78	85	73	66	63
L_{wA} Outlet dB(A)	88	61	74	78	83	83	77	70	66
Measurement point: 3708 m^3/h; 428 Pa									

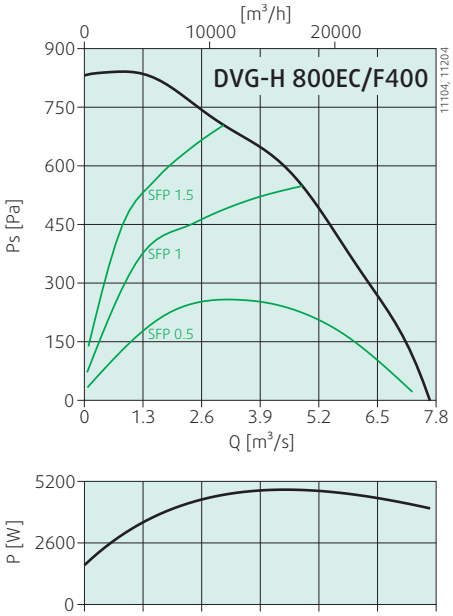
Performance



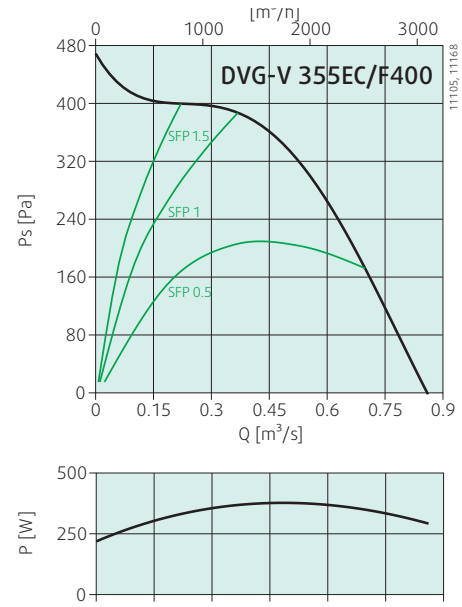
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	59	83	84	82	83	85	83	81
L_{wA} Outlet dB(A)	89	64	77	83	83	84	81	77	71
Measurement point: 7200 m³/h; 647 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	95	65	84	86	88	89	88	86	77
L_{wA} Outlet dB(A)	100	69	80	92	94	96	92	88	78
Measurement point: 13428 m³/h; 736 Pa									

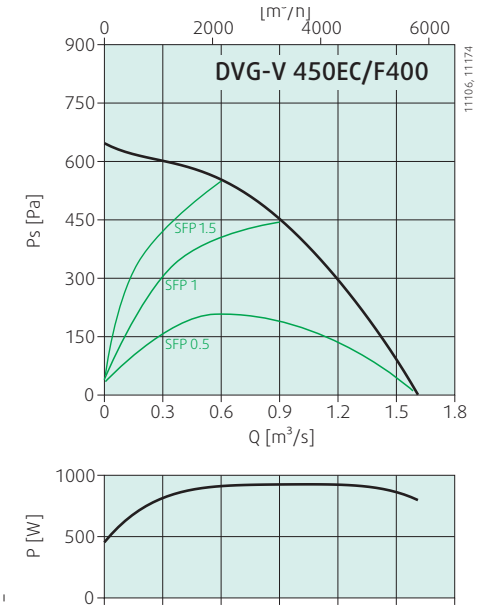


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	53	63	79	85	87	90	84	81
L_{wA} Outlet dB(A)	97	45	69	81	91	93	91	83	74
Measurement point: 16560 m³/h; 580 Pa									

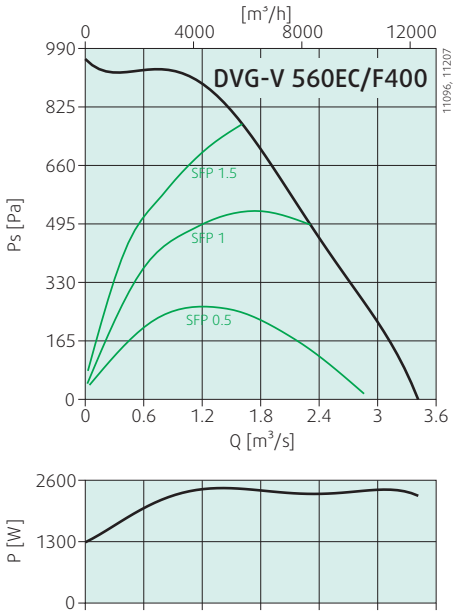


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	53	74	74	71	72	71	66	63
L_{wA} Outlet dB(A)	75	52	64	71	66	68	66	59	49
Measurement point: 1404 m³/h; 383 Pa									

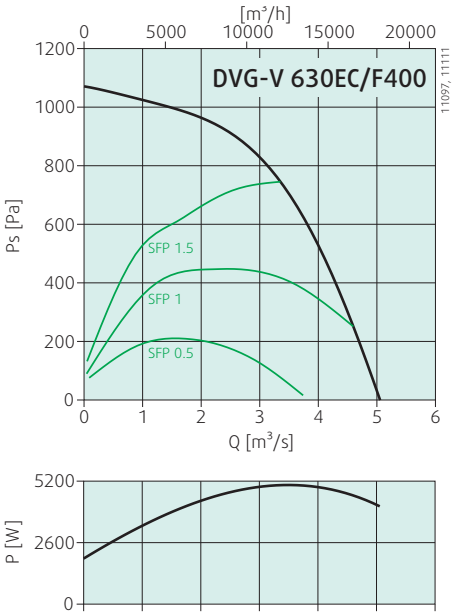
Performance



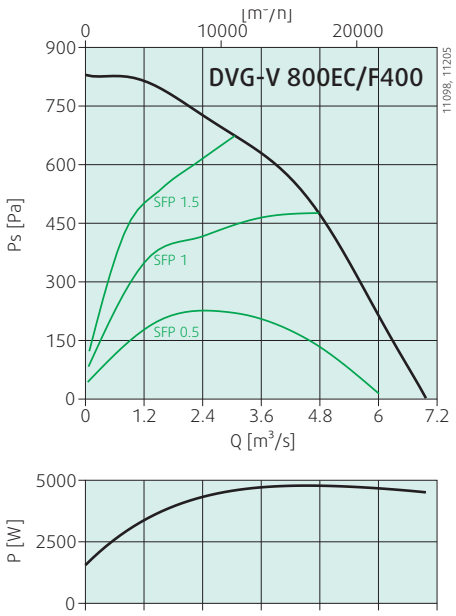
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	55	71	72	77	85	74	66	62
L_{wA} Outlet dB(A)	86	57	73	77	80	84	72	66	59
Measurement point: 2610 m³/h; 519 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	91	57	83	84	82	83	85	82	80
L_{wA} Outlet dB(A)	90	62	80	83	83	85	80	72	65
Measurement point: 5535 m³/h; 802 Pa									

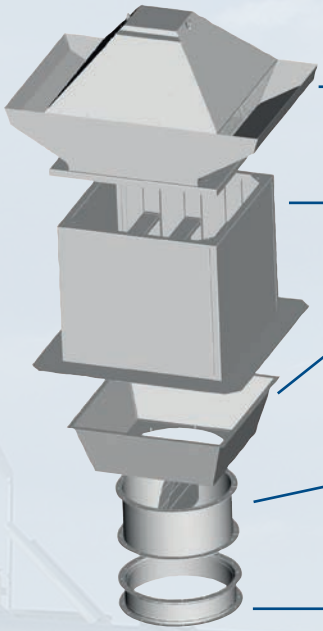


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	64	83	85	87	88	87	85	75
L_{wA} Outlet dB(A)	94	65	76	88	87	89	84	78	68
Measurement point: 8103 m³/h; 917 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	53	62	79	85	87	91	84	81
L_{wA} Outlet dB(A)	92	40	63	73	85	89	85	75	65
Measurement point: 11295 m³/h; 659 Pa									

Installation examples for DVG roof fans



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Roof fan
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Flat roof socket silencer
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Inlet chamber
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Automatic shutter
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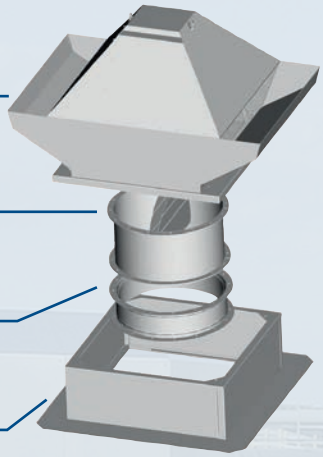
ASSG/F
Flexible connection
page 555

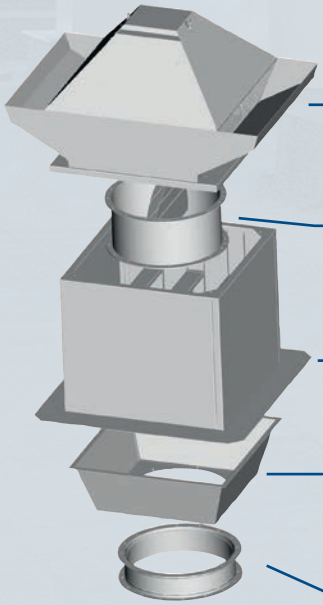
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Flexible connection
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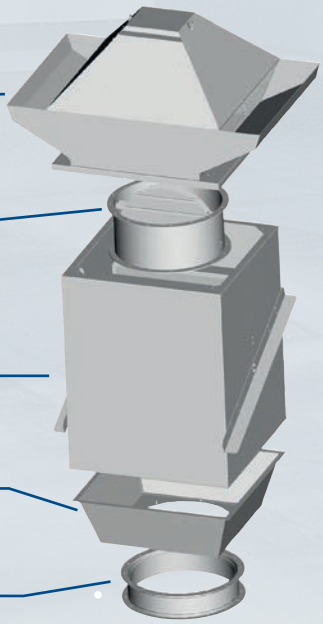
DVG EC / DVG
Roof fan
page 336

VKG/F
Automatic shutter
page 554

SSGE/F
Roof socket silencer
page 549

ASG/F
Inlet chamber
page 543

ASSG/F
Flexible connection
page 555



DVG

Smoke extract fan



DVG-V

DVG-H

IE2 2009/640/EG

120°C

400°C / 120min

Smoke extract fans

- Speed controllable via frequency inverter
- Temperature of transported air up to 120 °C in continuous operation
- Maintenance switch as standard
- Vertical discharge
- Certified in accordance with EN 12101-3

The DVG radial roof fans are suitable for the extract of hot smoke gases and daily ventilation requirements.

Casing
The casing is manufactured from sea water resistant aluminium, and equipped with a bird guard. Base frame made manufactured from hot dip galvanised steel.

Motor
Frequency inverter controllable IEC flange motors, as well as IEC flange motors which comply with efficiency Class IE2.

Impeller geometry
Radial impeller with backward curved blades manufactured from galvanised steel.

Output control
Speed controllable via frequency inverter.

Motor protection
Integrated PTC thermistors.

You can find more information in our online catalogue on www.systemair.com

Accessories



ASFV
Inlet flange
Page 555



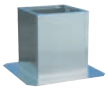
ASG/F
Connection box
Page 543



ASSG/F
Flex. connection
Page 555



VKG/F
Automatic shutter
Page 554



SSG/F
Roof socket
Page 549



SSGE/F
Roof socket
Page 548



FDG/F
Flat Roof socket
Page 547



FDGE/F
Roof socket
Page 546

Electrical accessories

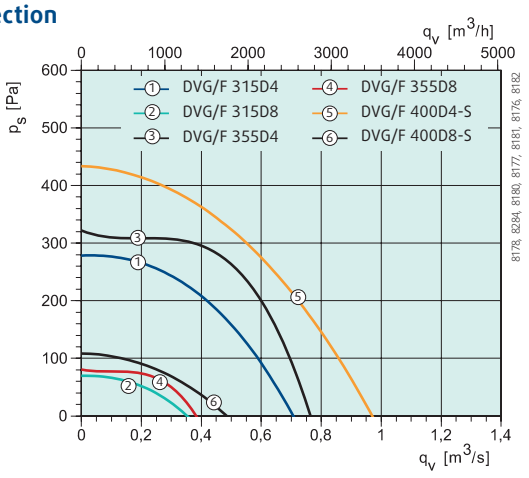


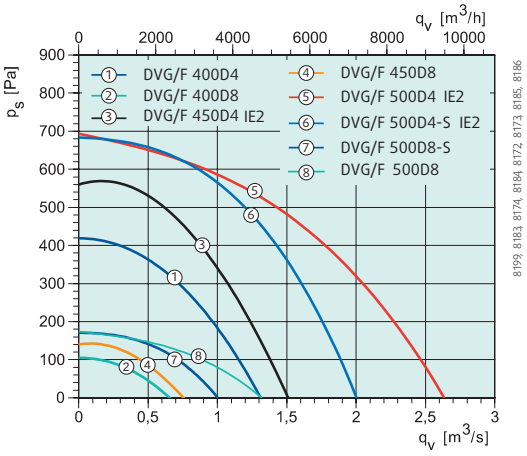
AES
Switching device
Page 481



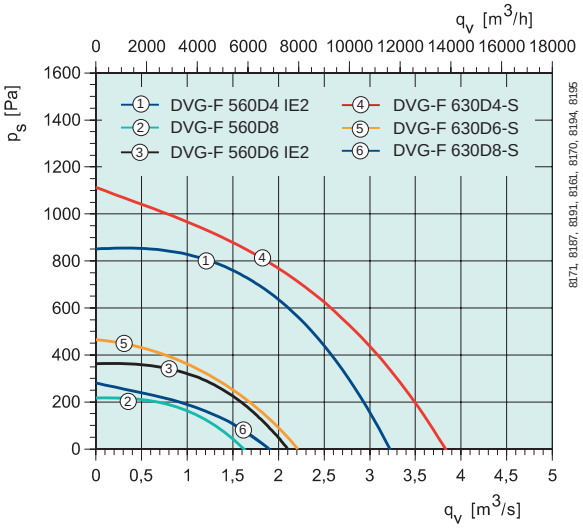
S-DT2 DKT
2-speed switch
Page 480

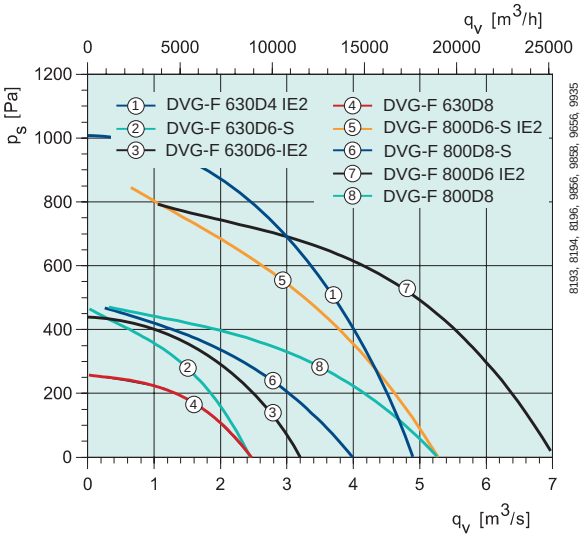
Quick selection





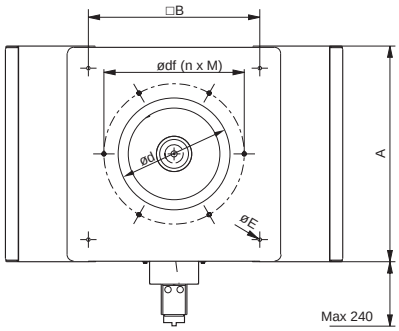
Quick selection

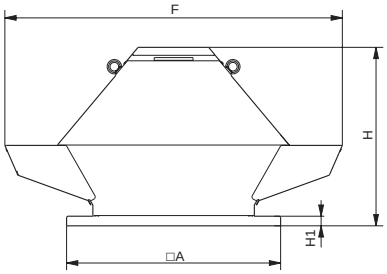




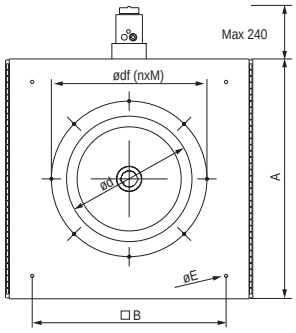
Dimensions

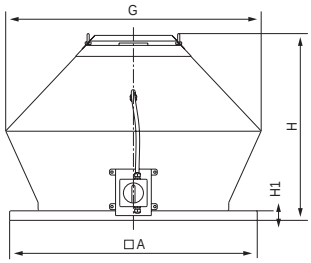
DVG-V





DVG-H





DVG	□A	□B	øE	F	G	ød	ødf (n x M)	H1	H
315	598	450	12	891	594	400	438 (6xM8)	30	520
355	598	450	12	1003	704	400	438 (6xM8)	30	567
400	668	535	12	1053	724	400	438 (6xM8)	30	557
450	668	535	12	1261	854	400	438 (6xM8)	30	637
500	943	750	14	1343	892	560	605 (8xM8)	30	696
560	943	750	14	1540	1078	560	605 (8xM8)	30	773
630	1039	840	14	1573	1072	630	674 (8xM8)	40	858
800	1255	1050	14	2024	1280	800	872 (8xM8)	40	999

Technical data

DVG		DVG 315D4/ F400	DVG 315D4-8/ F400	DVG 315D6/ F400	DVG 315D4-6/ F400	DVG 355D4/ F400
Article no. DVG-V (vertical)		*32306*	*32307*	*95043*	*95044*	*32308*
Article no. DVG-H (horizontal)		*95001*	*95002*	*95029*	*95030*	*95003*
Voltage	V	400	400	400	400	400
Connection		Y	YY/Y	Y	Y/Y	Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	227	486/248	248	486/248	372
Current	A	0.95	1.3/0.6	1.1	1.15/0.55	0.95
Starting current	A	4.1	4.4/1.3	3.8	4.4/1.4	4.1
Max. air flow	m^3/h	2550	2550/1280	1690	2550/1660	2900
Fan impeller speed	r.p.m	1405	1430/660	900	1420/950	1405
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	55	55/39	46	55/46	56
Sound pressure level at 10 m (free field)	dB(A)	49	49/33	40	49/40	50
Weight	kg	41	41	39	41	43
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	54

DVG		DVG 355D4-8/ F400	DVG 355D6/ F400	DVG 355D4-6/ F400	DVG 400D4-S/ F400	DVG 400D4-8-S/ F400
Article no. DVG-V (vertical)		*32309*	*95045*	*95046*	*32310*	*32311*
Article no. DVG-H (horizontal)		*95004*	*95031*	*95032*	*95005*	*95006*
Voltage	V	400	400	400	400	400
Connection		YY/Y	Y	Y/Y	Y	YY/Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	370/120	248	372/248	495	495/206
Current	A	1.3/0.6	1.1	1.15/0.55	0.95	1.3/0.6
Starting current	A	4.4/1.3	3.8	4.4/1.4	4.1	3.4
Max. air flow	m^3/h	2900/1380	1810	2900/1810	3500	3500/1750
Fan impeller speed	r.p.m	1430/660	900	1420/950	1405	1430/660
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	56/41	47	56/47	59	59/43
Sound pressure level at 10 m (free field)	dB(A)	50/35	41	50/41	53	53/37
Weight	kg	43	43	43	45	45
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	55	55	54	54

DVG		DVG 400D4/ F400	DVG 400D4-8/ F400	DVG 400D6-S/ F400	DVG 400D4-6-S/ F400	DVG 450D4/ F400 IE2
Article no. DVG-V (vertical)		*32312*	*32313*	*95047*	*95048*	*95164*
Article no. DVG-H (horizontal)		*95007*	*95008*	*95033*	*95034*	*95153*
Voltage	V	400	400	400	400	400
Connection		Y	YY/Y	Y	Y/Y	Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	660	795/205	370	495/343	927
Current	A	1.6	1.3/0.6	1.1	1.15/0.55	1.88
Starting current	A	6.6	5.8/1.3	3.8	4.4/1.4	10.1
Max. air flow	m^3/h	4720	4720/2360	2300	3500/2300	5480
Fan impeller speed	r.p.m	1390	1380/685	900	1420/950	1415
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	62	62/46	50	59/50	65
Sound pressure level at 10 m (free field)	dB(A)	55	55/40	44	53/44	58
Weight	kg	46	46	45	45	56
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

DVG		DVG 450D4-8/ F400	DVG 450D4-6/ F400	DVG 450D6/ F400	DVG 500D4/ F400 IE2	DVG 500D4-S/ F400 IE2
Article no. DVG-V (vertical)		*32315*	*95052*	*95051*	*95165*	*95166*
Article no. DVG-H (horizontal)		*95010*	*95038*	*95037*	*95154*	*95155*
Voltage	V	400	400	400	400	400
Connection		YY/Y	Y/Y	Y	Y	Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	1100/374	927/446	446	1752	1225
Current	A	3.1/1.25	2.4/1.0	1.1	3.5	2.6
Starting current	A	12.4/3	9.1/2.8	3.8	20.3	12.5
Max. air flow	m^3/h	5480/2740	5480/3600	3600	9500	7210
Fan impeller speed	r.p.m	1400/690	1420/950	900	1420	1400
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	65/48	65/55	55	70	66
Sound pressure level at 10 m (free field)	dB(A)	58/42	58/49	49	63	60
Weight	kg	58	56	54	86	87
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

DVG		DVG 500D4-8-S/ F400	DVG 500D4-8/ F400	DVG 500D4-6-S/ F400	DVG 500D4-6/ F400	DVG 500D6/ F400 IE2
Article no. DVG-V (vertical)		*32317*	*32319*	*95054*	*95056*	*95167*
Article no. DVG-H (horizontal)		*95012*	*95014*	*95040*	*95042*	*95156*
Voltage	V	400	400	400	400	400
Connection		YY/Y	YY/Y	Y/Y	Y/Y	Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	1225/524	1752/585	1225/636	1752/848	848
Current	A	3.1/1.25	3.5/1.4	3.0/1.4	4.3/1.9	2
Starting current	A	12.4/3	14.4/3.5	10.8/5.9	20.2/6.3	5.8
Max. air flow	m^3/h	7210/3600	9500/4750	7210/4740	9500/6240	6240
Fan impeller speed	r.p.m	1400/690	1400/680	1420/950	1450/940	880
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	66/49	70/52	66/57	70/60	60
Sound pressure level at 10 m (free field)	dB(A)	60/44	63/45	60/51	63/54	54
Weight	kg	87	86	90	91	83
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

DVG		DVG 500D6-S/ F400 IE2	DVG 560D4/ F400 IE2	DVG 560D4-6/ F400	DVG 560D6/ F400 IE2	DVG 560D4-8/ F400
Article no. DVG-V (vertical)		*95168*	*95169*	*32322*	*95170*	*32323*
Article no. DVG-H (horizontal)		*95157*	*95158*	*95017*	*95159*	*95018*
Voltage	V	400	400	400	400	400
Connection		Y	Y	Y/Y	Y	YY/Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	636	2568	2568/1052	750	2753/855
Current	A	2.0	5.35	5.3/2.5	2	5.9/2.4
Starting current	A	5.8	28.9	25.4/7.5	5.8	30.7/7.4
Max. air flow	m^3/h	4740	11650	11650/7600	7600	11650/5870
Fan impeller speed	r.p.m	880	1435	1430/950	880	1430/710
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	57	72	72/58	58	72/51
Sound pressure level at 10 m (free field)	dB(A)	51	67	67/52	52	67/46
Weight	kg	87	104	107	96	107
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

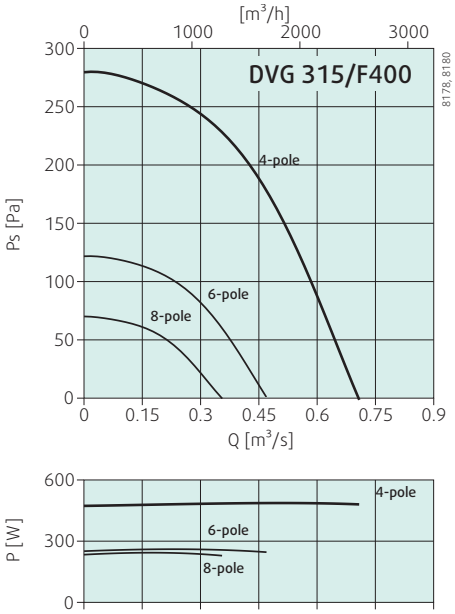
Technical data

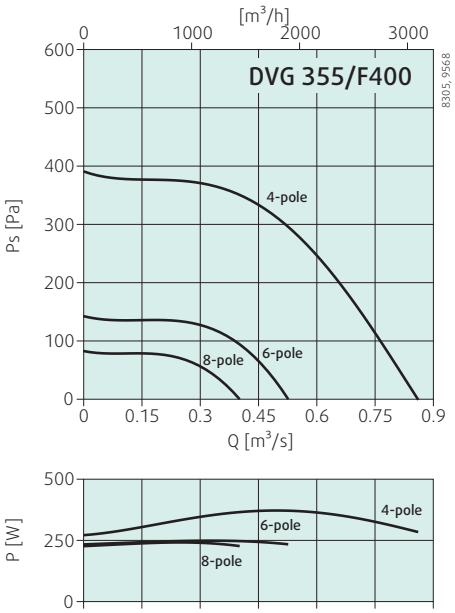
DVG		DVG 630D4/ F400 IE2	DVG 630D4-S/ F400 IE2	DVG 630D4-6-S/ F400	DVG 630D6/ F400 IE2	DVG 630D6-S/ F400 IE2
Article no. DVG-V (vertical)		*95171*	*95172*	*32327*	*95173*	*95174*
Article no. DVG-H (horizontal)		95160	95161	95022	95162	95163
Voltage	V	400	400	400	400	400
Connection		D	D	Y/Y	Y	Y
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	5000	3587	3587/1082	1571	1082
Current	A	9.7	6.65	6.9/3.3	3.8	2.9
Starting current	A	63	36.7	38/13.2	18.6	10.8
Max. air flow	m^3/h	17670	13750	13750/8810	11500	8810
Fan impeller speed	r.p.m	1440	1400	1450/975	945	910
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	75	71	72/62	66	62
Sound pressure level at 10 m (free field)	dB(A)	69	65	65/56	60	56
Weight	kg	128	119	128	115	111
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

DVG		DVG 630D4-6-S/ F400	DVG 630D6-8/ F400	DVG 630D4-6/ F400	DVG 630D4-8/ F400	DVG 800D6/ F400 IE2
Article no. DVG-V (vertical)		*32327*	*32331*	*32332*	*32333*	*95128*
Article no. DVG-H (horizontal)		-	*95026*	*95027*	*95028*	*95122*
Voltage	V	400	400	400	400	400
Connection		Y/Y	Y/Y	Y/Y	YY/Y	D
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	3587/1082	1571/712	5000/1571	5000/712	5857
Current	A	6.9/3.3	3.9/2.2	9.7/3.5	9.7/3.5	12.6
Starting current	A	38/13.2	19.1/7.7	51.3/14.4	57/12.3	76
Max. air flow	m^3/h	13750/8810	11500/8900	17670/11500	17670/8900	25500
Fan impeller speed	r.p.m	1450/975	960/710	1445/965	1450/720	960
Max. temperature of transported air	°C	120	120	120	120	120
Max. temperature of transported air 120 min.	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	72/62	66/59	75/66	75/59	74
Sound pressure level at 10 m (free field)	dB(A)	65/56	60/54	69/60	69/54	66
Weight	kg	128	129	144	144	212
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55

DVG		DVG 800D8/ F400	DVG 800D6-S/ F400 IE2	DVG 800D6-8-S/ F400	
Article no. DVG-V (vertical)		*95129*	*95131*	*95132*	
Article no. DVG-H (horizontal)		*95124*	*95126*	*95127*	
Voltage	V	400	400	400	
Connection		Y	D	Y/Y	
Frequency	Hz	50	50	50	
Phase	~	3	3	3	
Input power (P1)	W	2709	3444	3444/1694	
Current	A	5.5	6.8	7.5/3.8	
Starting current	A	25.2	34.7	38.3/15.6	
Max. air flow	m^3/h	19000	19000	19000/14350	
Fan impeller speed	r.p.m	690	950	970/730	
Max. temperature of transported air	°C	120	120	120	
Max. temperature of transported air 120 min.	°C	400	400	400	
Sound pressure level at 4 m (free field)	dB(A)	68	71	71/63	
Sound pressure level at 10 m (free field)	dB(A)	60	64	64/56	
Weight	kg	198	202	208	
Insulation class		F	F	F	
Enclosure class, motor	IP	55	55	55	

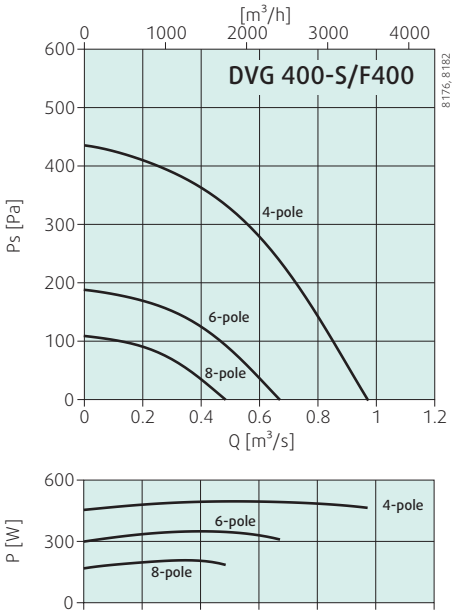
Performance





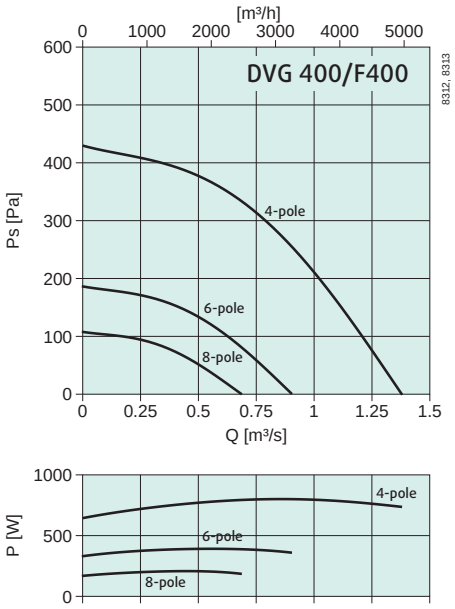
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	78	51	72	72	69	71	69	64	61
L_{wA} Surrounding dB(A)	76	54	65	72	67	69	67	61	51
Measurement point: 0.6 m³/s; 80 Pa									
6-pole									
L_{wA} Inlet dB(A)	68	39	61	61	61	60	61	53	45
L_{wA} Surrounding dB(A)	66	49	56	59	58	60	59	50	39
Measurement point: 0.3 m³/s; 60 Pa									
8-pole									
L_{wA} Inlet dB(A)	62	40	58	54	54	53	53	45	36
L_{wA} Surrounding dB(A)	60	44	52	53	53	55	50	42	33
Measurement point: 720 m³/h; 50 Pa									

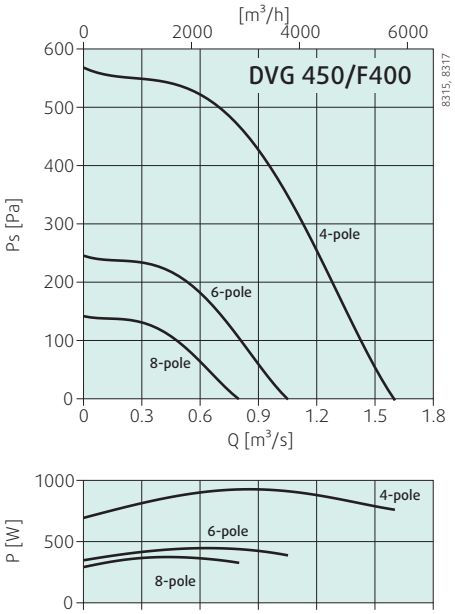
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	81	55	75	75	73	74	73	67	64
L_{wA} Surrounding dB(A)	77	55	67	74	69	71	68	62	52
Measurement point: 0.6 m³/s; 100 Pa									
6-pole									
L_{wA} Inlet dB(A)	71	55	62	64	63	64	64	62	46
L_{wA} Surrounding dB(A)	69	52	59	62	61	63	62	53	42
Measurement point: 0.4 m³/s; 110 Pa									
8-pole									
L_{wA} Inlet dB(A)	65	43	61	57	57	56	56	48	39
L_{wA} Surrounding dB(A)	62	46	54	55	55	57	52	44	35
Measurement point: 1080 m³/h; 50 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	82	55	76	76	73	75	73	68	65
L_{wA} Surrounding dB(A)	82	60	71	78	73	75	73	67	57
Measurement point: 0.7 m³/s; 220 Pa									
6-pole									
L_{wA} Inlet dB(A)	73	43	66	66	66	65	66	58	50
L_{wA} Surrounding dB(A)	73	56	63	66	65	67	66	57	46
Measurement point: 0.5 m³/s; 100 Pa									
8-pole									
L_{wA} Inlet dB(A)	66	44	62	58	58	57	57	49	40
L_{wA} Surrounding dB(A)	66	50	58	59	59	61	56	48	39
Measurement point: 1440 m³/h; 50 Pa									

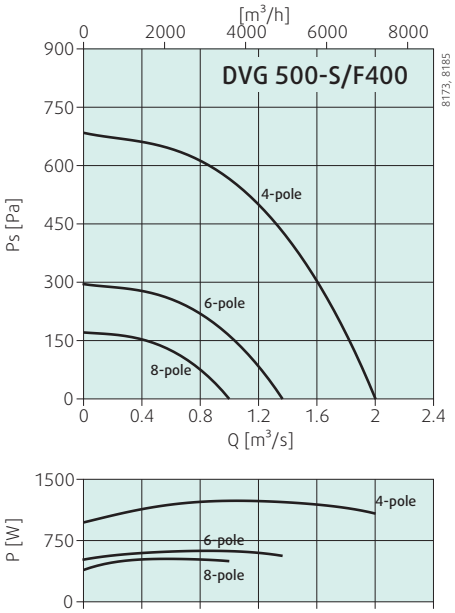
Performance





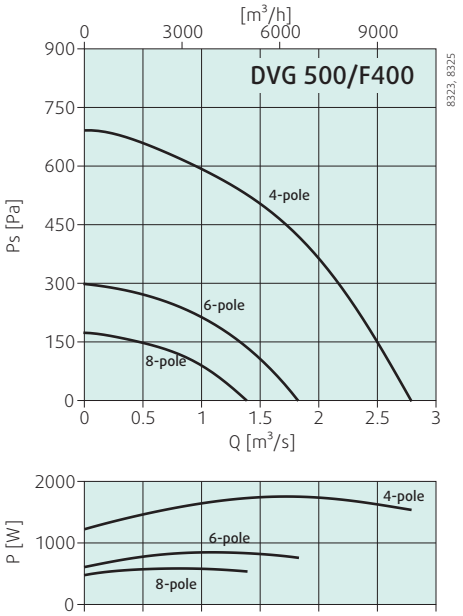
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	85	58	79	79	76	78	76	71	68
L_{wA} Surrounding dB(A)	85	63	74	81	76	78	76	70	60
Measurement point: 3960 m³/h; 125 Pa									
6-pole									
L_{wA} Inlet dB(A)	76	46	69	69	69	68	69	61	53
L_{wA} Surrounding dB(A)	76	55	66	70	69	71	67	59	49
Measurement point: 2160 m³/h; 100 Pa									
8-pole									
L_{wA} Inlet dB(A)	69	47	65	61	61	60	60	52	43
L_{wA} Surrounding dB(A)	68	52	60	61	61	63	58	50	41
Messbedingungen: 1800 m³/h; 50 Pa									

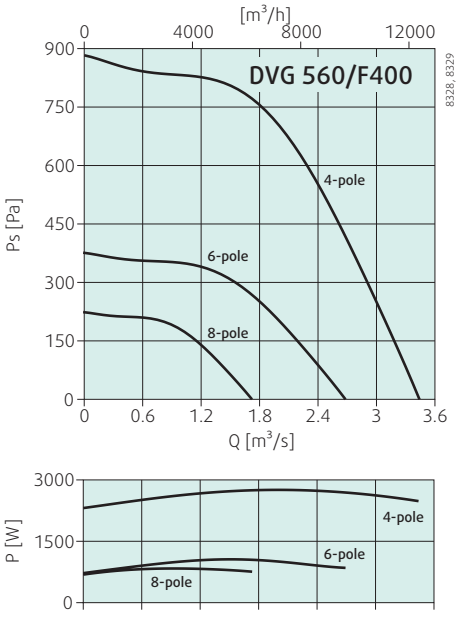
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	88	56	71	73	78	86	74	67	63
L_{wA} Surrounding dB(A)	87	57	73	77	81	84	73	67	60
Measurement point: 4320 m³/h; 200 Pa									
6-pole									
L_{wA} Inlet dB(A)	78	48	71	71	71	70	71	63	55
L_{wA} Surrounding dB(A)	78	61	68	71	70	72	71	62	51
Measurement point: 2880 m³/h; 100 Pa									
8-pole									
L_{wA} Inlet dB(A)	71	50	61	63	61	67	62	62	50
L_{wA} Surrounding dB(A)	69	52	58	63	62	63	59	56	39
Measurement point: 2160 m³/h; 50 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	88	61	81	81	79	81	78	79	66
L_{wA} Surrounding dB(A)	88	63	76	81	80	84	78	73	62
Measurement point: 4320 m³/h; 500 Pa									
6-pole									
L_{wA} Inlet dB(A)	88	61	81	81	79	81	78	79	66
L_{wA} Surrounding dB(A)	90	64	77	84	83	85	82	78	68
Measurement point: 6120 m³/h; 300 Pa									
8-pole									
L_{wA} Inlet dB(A)	72	53	62	64	63	66	67	55	45
L_{wA} Surrounding dB(A)	69	52	59	62	63	65	61	52	40
Measurement point: 2160 m³/h; 130 Pa									

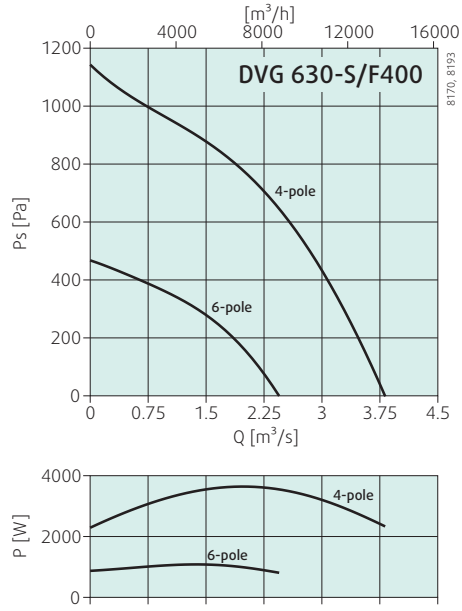
Performance



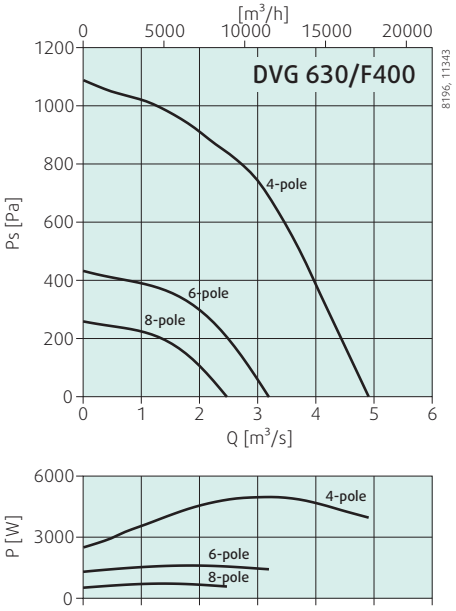


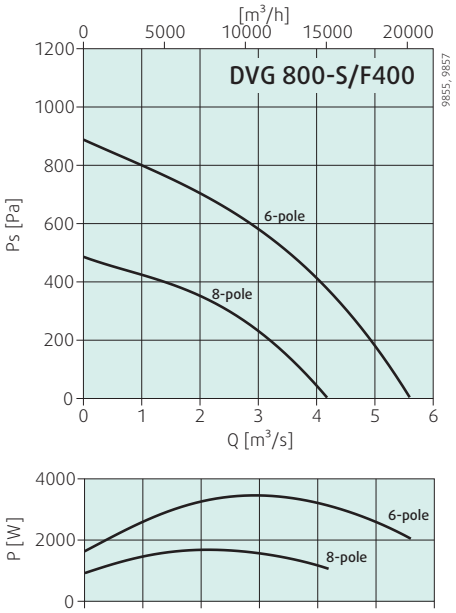
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	90	61	74	84	83	83	84	81	74
L_{wA} Surrounding dB(A)	91	64	75	86	83	87	82	76	65
Measurement point: 7560 m³/s; 300 Pa									
6-pole									
L_{wA} Inlet dB(A)	81	51	74	74	74	73	74	66	58
L_{wA} Surrounding dB(A)	80	56	70	71	73	75	73	68	57
Measurement point: 5400 m³/s; 100 Pa									
8-pole									
L_{wA} Inlet dB(A)	72	50	68	64	64	63	63	55	46
L_{wA} Surrounding dB(A)	73	57	65	66	66	68	63	55	46
Measurement point: 3960 m³/h; 50 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	94	59	85	86	84	85	87	84	82
L_{wA} Surrounding dB(A)	94	67	84	88	88	89	85	77	70
Measurement point: 9000 m³/s; 400 Pa									
6-pole									
L_{wA} Inlet dB(A)	87	57	80	80	80	79	80	71	64
L_{wA} Surrounding dB(A)	82	61	73	77	74	75	74	66	58
Measurement point: 6480 m³/s; 100 Pa									
8-pole									
L_{wA} Inlet dB(A)	76	55	65	68	66	72	67	67	55
L_{wA} Surrounding dB(A)	74	58	64	69	67	69	65	61	44
Measurement point: 5400 m³/h; 50 Pa									



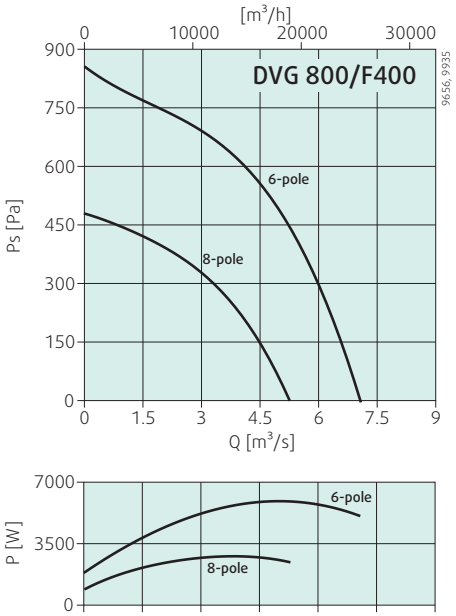
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	94	60	86	80	83	87	87	87	72
L_{wA} Surrounding dB(A)	93	66	84	84	86	88	84	79	68
Measurement point: 10080 m³/s; 500 Pa									
6-pole									
L_{wA} Inlet dB(A)	85	55	78	78	78	77	78	70	62
L_{wA} Surrounding dB(A)	84	63	74	78	77	79	75	67	57
Measurement point: 7920 m³/h; 100 Pa									





Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
4-pole									
L_{wA} Inlet dB(A)	97	68	79	91	90	92	87	81	72
L_{wA} Surrounding dB(A)	96	66	85	86	89	89	89	87	77
Measurement point: 13680 m³/h; 500 Pa									
6-pole									
L_{wA} Inlet dB(A)	87	57	80	80	80	79	80	71	64
L_{wA} Surrounding dB(A)	89	69	79	83	82	84	80	72	62
Measurement point: 10080 m³/h; 120 Pa									
8-pole									
L_{wA} Inlet dB(A)	81	59	77	73	73	72	72	64	55
L_{wA} Surrounding dB(A)	82	66	74	75	75	77	72	64	55
Measurement point: 7560 m³/h; 80 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
6-pole									
L_{wA} Inlet dB(A)	88	48	64	69	78	81	84	83	70
L_{wA} Surrounding dB(A)	91	56	70	76	84	88	84	79	64
Measurement point: 15120 m³/h; 300 Pa									
8-pole									
L_{wA} Inlet dB(A)	82	34	58	64	70	76	79	70	67
L_{wA} Surrounding dB(A)	83	45	61	68	77	79	75	68	69
Measurement point: 12960 m³/h; 100 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
6-pole									
L_{wA} Inlet dB(A)	96	55	65	81	87	89	93	86	83
L_{wA} Surrounding dB(A)	94	42	65	75	87	91	87	77	67
Measurement point: 19440 m³/h; 400 Pa									
8-pole									
L_{wA} Inlet dB(A)	90	48	62	70	79	88	84	77	71
L_{wA} Surrounding dB(A)	87	42	59	70	82	84	77	69	63
Measurement point: 14040 m³/h; 250 Pa									



KVB/F

Smoke extract fan



400°C /120min

- Certified in accordance with EN 12101-3 for 400 °C/120 min.
- Belt driven fan with motor out of the air stream
- Forward curved double inlet galvanized steel impeller
- Inline operation
- With single or two speed motors

Smoke extract fans

The KVB/F range covers airflows from 1,000 to 50,000 m³/h, for indoor and outdoor installation

Casing
Single skin box made manufactured from galvanized steel.

Motor
Belt driven fan with IEC motor out of the air stream, insulation class F, enclosure class, motor IP44.

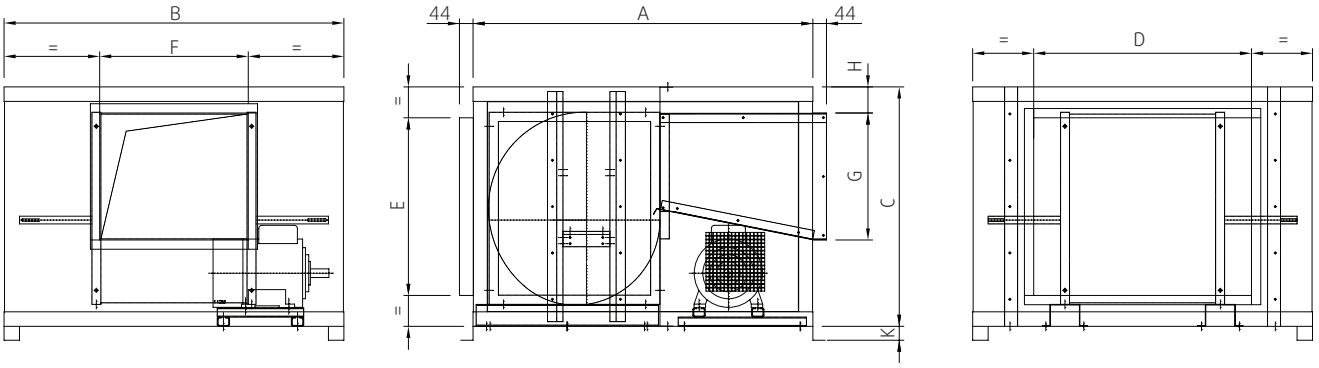
Impeller geometry
Impeller with forward curved blades manufactured from galvanised steel.

Applications
Industrial kitchen extract, malls, cinemas, theaters, garages (extract and intake).

Accessories
Outlet hood, roof, ON/OFF isolator (on request).

You can find our Selection program on www.systemair.com

Dimensions



KVB/F	A	B	C	K	Inlet E	Inlet F	Outlet G	Outlet H
9/9	760	785	595	45	306	272	455	395
10/10	825	850	615	45	334	297	555	415
12/12	945	920	680	45	394	349	655	480
15/15	1100	1100	775	45	481	411	705	575
18/18	1250	1280	900	80	564	487	905	700
20/20	1475	1495	1080	80	610	611	955	880
22/22	1625	1640	1180	80	663	702	1055	980
25/25	1825	1800	1300	80	773	801	1255	1100
30/28	2135	2000	1525	80	898	940	1455	1325

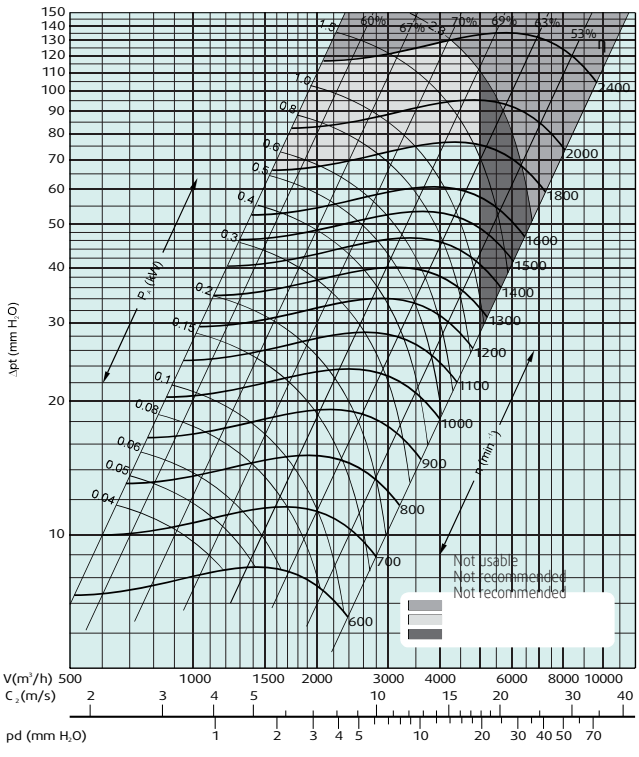
Technical data

Model	Amp. max.		Installed power	Speed	Air flow
	230V	400V	[kW]	[r.p.m.]	[m³/h]
KVB/F-9/9	1.78	1.03	**0.37**	1020	2200
KVB/F-9/9	2.51	1.45	**0.55**	1050	2900
KVB/F-9/9	3.22	1.79	**0.75**	1070	3200
KVB/F-9/9	4.58	2.50	**1.1**	1260	3750
KVB/F-10/10	1.78	1.03	**0.37**	845	2950
KVB/F-10/10	2.51	1.45	**0.55**	845	3800
KVB/F-10/10	3.22	1.79	**0.75**	960	4175
KVB/F-10/10	4.58	2.50	**1.1**	1070	4800
KVB/F-10/10	5.97	3.31	**1.5**	1140	5400
KVB/F-12/12	1.78	1.03	**0.37**	595	4200
KVB/F-12/12	2.51	1.45	**0.55**	675	4800
KVB/F-12/12	3.22	1.79	**0.75**	765	5400
KVB/F-12/12	4.58	2.50	**1.1**	855	5800
KVB/F-12/12	5.97	3.31	**1.5**	965	6500
KVB/F-12/12	8.48	4.83	**2.2**	1100	8000
KVB/F-15/15	2.51	1.45	**0.55**	525	5900
KVB/F-15/15	3.22	1.79	**0.75**	595	6500
KVB/F-15/15	4.58	2.50	**1.1**	635	7500
KVB/F-15/15	5.97	3.31	**1.5**	700	8200
KVB/F-15/15	8.48	4.83	**2.2**	800	9500
KVB/F-15/15	11.03	6.33	**3**	900	10600
KVB/F-15/15	14.36	8.23	**4**	990	12000
KVB/F-18/18	4.58	2.50	**1.1**	500	9000
KVB/F-18/18	5.67	3.31	**1.5**	540	9250
KVB/F-18/18	8.48	4.83	**2.2**	590	11500
KVB/F-18/18	11.07	6.33	**3**	640	13200
KVB/F-18/18	14.36	8.23	**4**	720	15000
KVB/F-18/18	19.72	10.90	**5.5**	850	17000
KVB/F-20/20	8.48	4.83	**2.2**	500	12800
KVB/F-20/20	11.07	6.33	**3**	570	14200
KVB/F-20/20	14.36	8.23	**4**	630	15500
KVB/F-20/20	19.72	10.90	**5.5**	670	17500
KVB/F-20/20	26.12	14.50	**7.5**	760	20000

Model	Amp. max.		Installed power	Speed	Air flow
	230V	400V	[kW]	[r.p.m.]	[m³/h]
KVB/F-22/22	8.48	4.83	**2.2**	430	15000
KVB/F-22/22	11.07	6.33	**3**	480	17000
KVB/F-22/22	14.36	8.23	**4**	500	19000
KVB/F-22/22	19.72	10.90	**5.5**	580	21500
KVB/F-22/22	26.12	14.50	**7.5**	610	22000
KVB/F-22/22	37.02	20.80	**11**	740	27000
KVB/F-25/25	8.48	4.83	**2.2**	375	17000
KVB/F-25/25	11.07	6.33	**3**	405	20500
KVB/F-25/25	14.36	8.23	**4**	450	22000
KVB/F-25/25	19.72	10.90	**5.5**	485	24500
KVB/F-25/25	26.12	14.50	**7.5**	545	28000
KVB/F-25/25	37.02	20.80	**11**	610	32000
KVB/F-25/25	49.31	27.80	**15**	640	37000
KVB/F-30/28	11.07	6.33	**3**	360	22000
KVB/F-30/28	14.36	8.23	**4**	380	25000
KVB/F-30/28	19.72	10.90	**5.5**	395	31500
KVB/F-30/28	26.12	14.50	**7.5**	410	36000
KVB/F-30/28	37.07	20.80	**11**	480	42000
KVB/F-30/28	49.31	27.80	**15**	520	48000

Performance

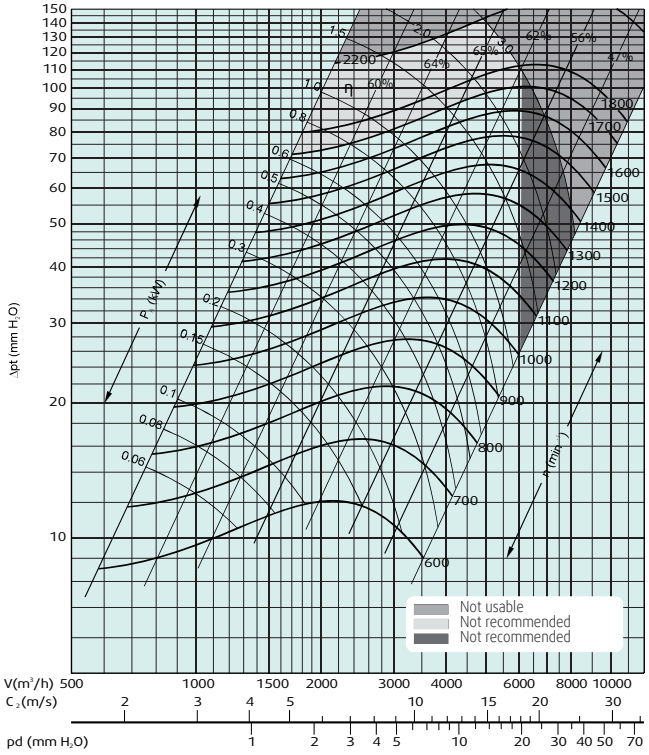
9-9



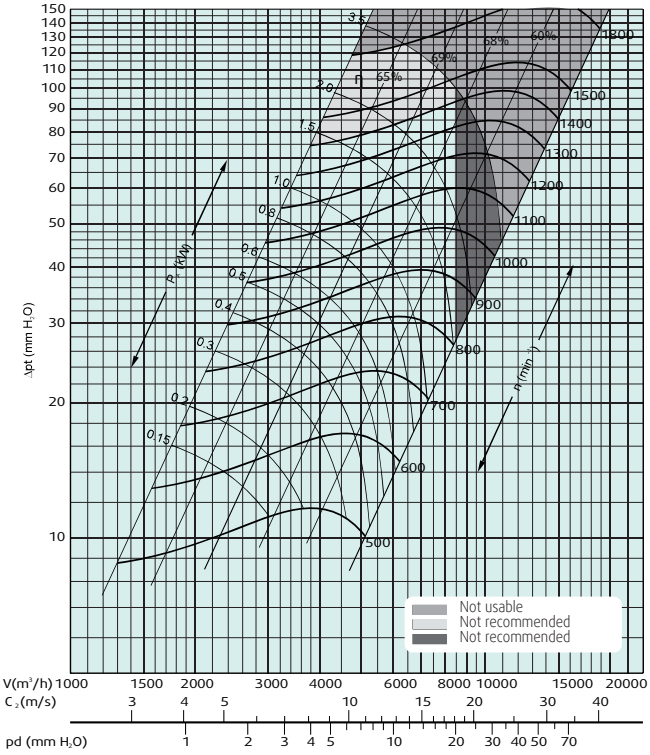


Performance

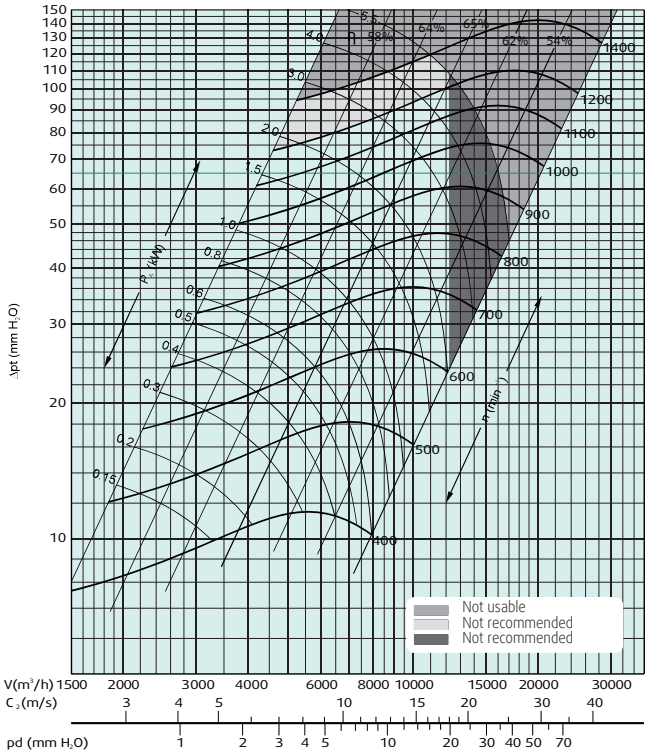
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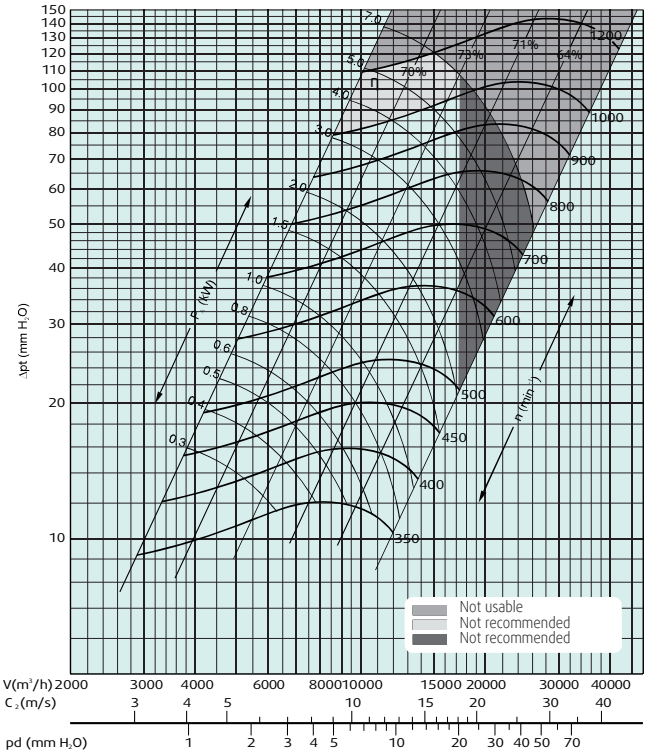
12-12



15-15



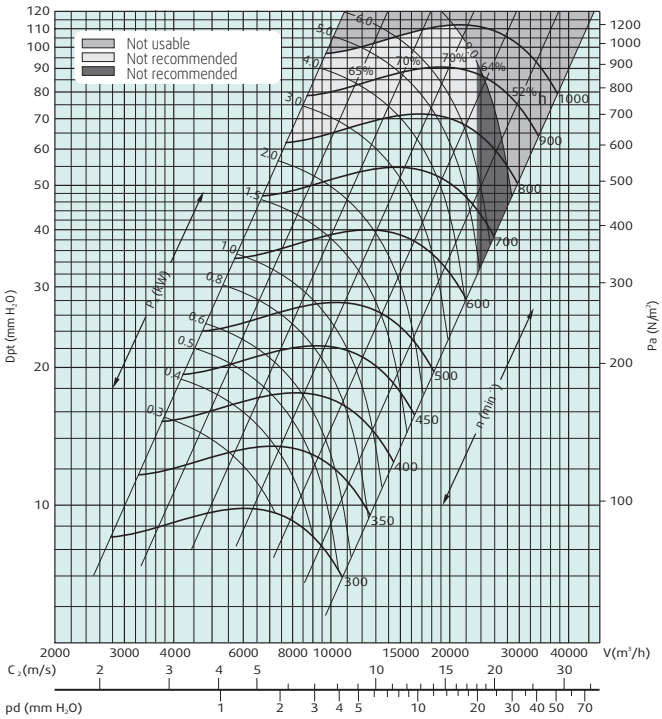
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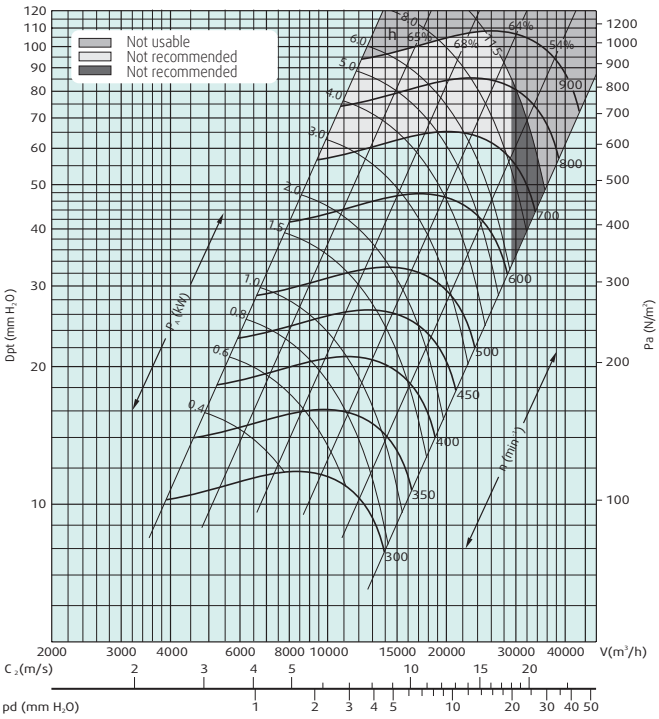


Performance

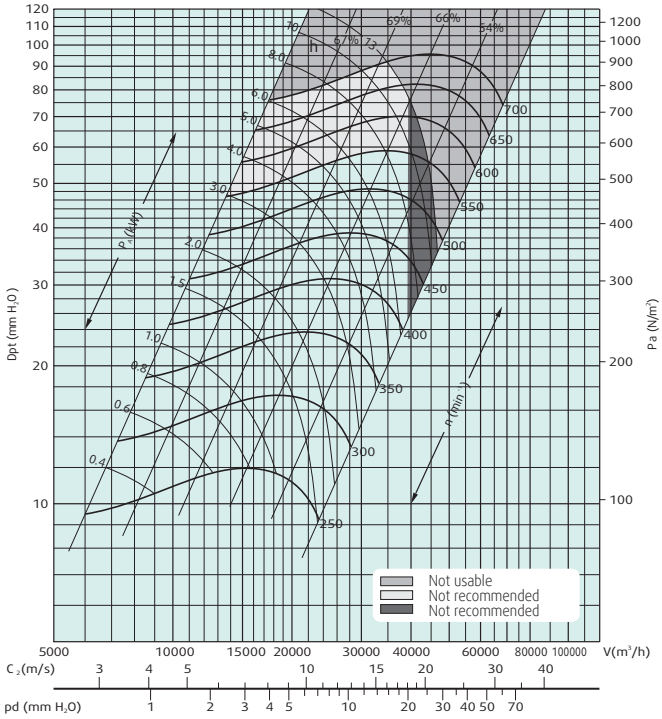
20-20



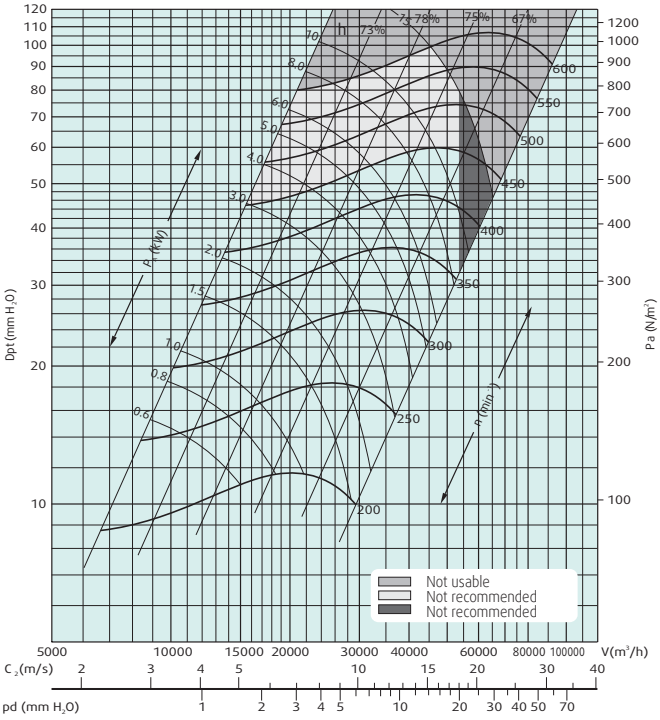
22-22



25-25



30-28



Note: All fan curves are for 50 Hz. For 60 Hz the transmission will be adjusted to the working point.

AXC(B)

Smoke extract fan



300°C /120min

Smoke extract fans

- With aerodynamic impeller, blade pitch angle adjustable
- Hub and blades made from high-strength aluminium cast alloy
- External terminal box for easy electrical connection, IP65
- Suitable for transported air temperatures between -20 °C and +55 °C in continuous operation or once for 300 °C/120 min.
- Inspection opening to verify direction of rotation

Accessories



ESD-F
Inlet flange
Page 562



EV-AR/AXC
Flex. connection
Page 563



FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK(F)
Autom. shutter
Page 561

MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



MPR AXC
Mounting ring
Page 559



MP-AXC
Mounting brackets
Page 557



SG AR/AXC
Protection guard
Page 557



ZSD
Spring damper
Page 560



ABS AXC
Weather cowl
Page 561

Electrical accessories



AES
Switching device
Page 481



FRQ
Frequency inverter
Page 490



FC102
Frequency inverter
Page 492

The smoke extract axial fans of Systemair AXC (B)/AXR (B) series are certified for 300°C/120 min. according to EN 12101-3. The adjustable pitch angle setting offers a big variety in performance and maximum flexibility to match precisely individual airflow requirements.
The AXC (B) and AXR (B) axial fans have been performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99. Certified in accordance with EN 12101-3.
All fans of the range are labeled with the CE-mark.

Highly efficient impellers

The aerodynamically-shaped impellers made from high-strength aluminium cast alloy with flexible blade solidities provide optimum efficiency. A range of different blade/hub configurations enables high operating pressures.

Casing

The casing is manufactured from galvanised steel in accordance with DIN EN ISO 1461. The flanges pressed onto both sides in accordance with Eurovent 1/2 provide additional stability. Long casing as standard.

Motors

Motors IP54/55, enclosure class H, according to EN 60034-5/IEC 85. Motor in the air stream. Available as single and two speed motors (switchable poles). Operation with frequency inverter for standard ventilation on request.

Two-stage fans

Two axial fans mounted in series to enable higher operating pressures.

Quality

Systemair is certified according to ISO 9001:2008 and ISO 14001:2004.
Systemair's quality system is regularly monitored by TÜV Süd.

Performance curves you can find in our product selector online.


EG-Konformitätszertifikat

Maschinelle Rauch- und Wärmeabzugsgeräte zum Einsatz in Bauwerken der Baureihe AXC (B)
Temperatur-Zeit-Klasse: F300

Ordering code

AXR — Axial fan, reversible

AXC 630 - 9 / 22° - 2 (B)

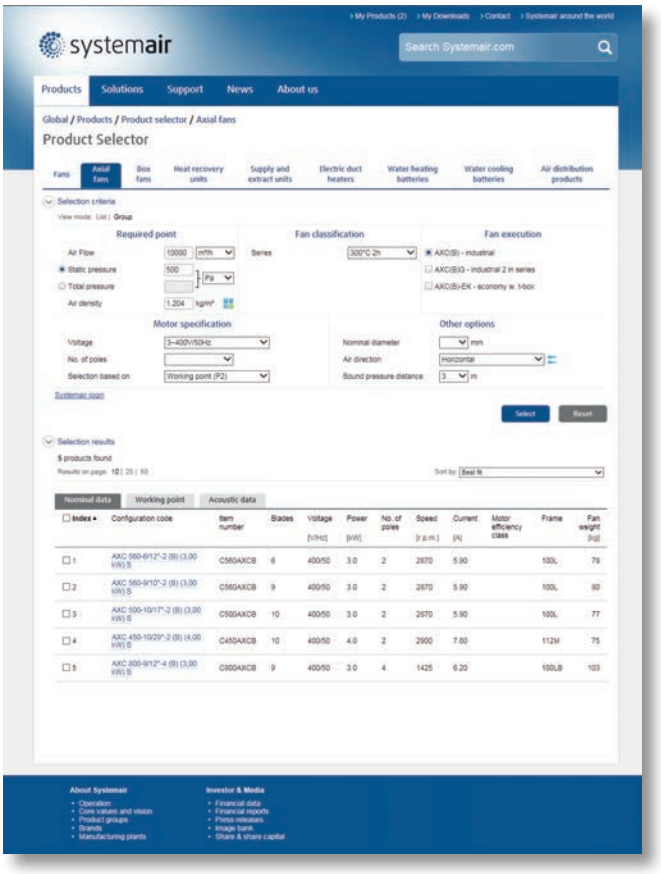
- 300°/120 min.
- 2-pole motor
- Pitch angle
- Number of blades
- Nominal diameter
- Axial fan unidirectional

AXC axial fan product selector

With the Systemair product selector for axial fans, it is even easier for you to find the right fan for your specific application. You will find it on www.systemair.com.

The product selector covers all medium pressure axial fans for standard temperatures and smoke extraction.

Another advantage: No installation is required for the Systemair product selector; it is freely available online.



AXC(F)

Smoke extract fan



400°C /120min

Smoke extract fans

- With aerodynamic impeller, blade pitch angle adjustable
- Hub and blades made from cast aluminium alloy.
- External terminal box for easy electrical connection, IP65
- Suitable for transported air temperatures between -20 °C and +55 °C in continuous operation or once for 400 °C/120 min.
- Inspection opening to verify direction of rotation

Accessories



ESD-F
Inlet flange
Page 562



EV-AR/AXC
Flex. connection
Page 563



FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK(F)
Autom. shutter
Page 561



MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



MPR AXC
Mounting ring
Page 559



MP-AXC
Mounting brackets
Page 557



SG AR/AXC
Protection guard
Page 557



ZSD
Spring damper
Page 560



ABS AXC
Weather cowl
Page 561

Electrical accessories



AES
Switching device
Page 481



FRQ
Frequency inverter
Page 490



FC102
Frequency inverter
Page 492

The smoke extract axial of Systemair AXC (F)/AXR (F) series are certified for 400°C/120 min. according to EN 12101-3. The adjustable pitch angle setting offers a big variety in performance and maximum flexibility to match precisely individual airflow requirements.
The AXC (F) and AXR (F) axial fans have been performance tested on the Systemair fan test rig, in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99. Certified in accordance with EN 12101-3.
All AXC (F)/AXR axial fans are labeled with the CE-mark and accredited by the DIBt under Z-78.11-190.

Highly efficient impellers

The aerodynamically-shaped impellers made from cast aluminium alloy with flexible blade solidities provide optimum efficiency. A range of different blade/hub configurations enables high operating pressures.

Casing

The casing is manufactured from galvanised steel in accordance with DIN EN ISO 1461. The flanges pressed onto both sides in accordance with Eurovent 1/2 provide additional stability. Long casing as standard.

Motors

Motors IP54/55, encolsure class H, according to EN 60034-5/IEC 85. Motor in the air stream. Available as single and two speed motors (switchable poles). Operation with frequency inverter for standard ventilation on request.

Two-stage fans

Two axial fans mounted in series to enable higher operating pressures.

Quality

Systemair is certified according to ISO 9001:2008 and ISO 14001:2004. Systemair's quality system is regularly monitored by TÜV Süd.

Performance curves can be found in our product selector online.


EG-Konformitätszertifikat

0036 CPD RG04 11

Maschinelle Rauch- und Wärmeabzugsgeräte zum Einsatz in Bauwerken vom Typ AXC (F)
Temperatur-Zeit-Klasse: F400 (120)

Ordering code

AXR — Axial fan, reversible

AXC 630 - 9 / 22° - 2 (F)

- 400°C/120 min.
- 2-pole motor
- Pitch angle
- Number of blades
- Nominal diameter
- Axial fan unidirectional



Staircase Pressure Differential Systems

A system which is life saving and supporting the fire brigade

Smoke gases present the highest threat not only for people trying to escape, smoke gases also threaten and hinder the rescue team. Electronically-controlled overpressure systems bring a new dimension to fire protection in staircases. With a simple switch, the fire services can switch the supply air fans to maximum power, limiting the need for mobile fans to be used, or even making them unnecessary. This means that electronic overpressure systems do not just support self-rescue, but also provide additional protection against smoke gases for the firefighting personnel, even at high fire temperatures. They provide clear visibility and generally make it possible to reach the source of the fire more quickly.

Systemair is the leading company when it comes to combining overpressure systems with EC motor technology and frequency converter control technology. An airtight building with low leakage places higher demands on the planning and implementation of smoke extraction concepts. When designing an overpressure system, the smoke extract fans installed in shafts inside the building play a significant role. Combining both systems – smoke extraction and the overpressure system – into a functioning overall concept is the latest development from Systemair.

Systemair will come up with individual solutions for your applications.

The electronic control technology

With an intelligent control system, the Systemair MUB based pressure differential system works without pressure relief dampers. The system is a complete solution with only a small number of components required. The system is also available with optional smoke extract fans, and meets the requirements according to EN 12101-3 (Smoke and heat control systems – part 6: specification for pressure differential systems). The Systemair control units, both in EC and AC technology, ensure that the system performance follows the given concept and at the same time offers the benefit of an extremely low energy requirement during the ventilation process.

Design example

Our MUB-EC centrifugal fan unit is used for residential buildings up to eight floors. The capacity can be increased by parallel operation of two or more units. Higher buildings normally require several supply air units installed at different positions in the stairway. The self-regulating EC control panel is connected to the fan unit via a 0-10 V signal. There is just one standard 230 V cable necessary for the control unit. The optional on/off switch of the MUB-EC ventilation unit can be directly wired to the 400 V power supply. Systemair's complete solution includes periferic controls like, connections for smoke detectors, manual call points and a fire indicator panel.

Ten benefits of electronic overpressure systems

1. **Faster self rescue**
   Fire escape staircases are recommended even if other arrangements are permitted for escape and rescue routes. People evacuation is faster through smoke-free stairways or stairways with less smoke – the panic risk can be reduced.
2. **Faster rescue by others**
   On Systemair electronic overpressure systems, the firefighters can manually increase the supply air volume to maximum with the help of a switch which is part of our offer. This helps to push back the smoke and guide it into a desired direction when needed. The overpressure in the staircase is increased, and a time consuming installation of auxillary fans by the fire brigade, normally used to allow them to have a better view, in most cases is no longer necessary.
3. **More flexibility during fire-fighting operations**
   Mobile fans placed in the building entry can become a „tripping hazard" for emergency task forces. With the Systemair Pressure Differential System those fans are not needed.
4. **Higher security for emergency task forces**
   High air velocities combined with electronically controlled ventilation reduces the concentration of flammable gases and hot air in the fire zone. This reduces the risk of backdrafts and delays flashover.
5. **Higher building protection**
   With the possibility of overriding the set pressure with the electronic overpressure system a faster access for the firefighters is enabled. This reduces fire damages which can be honoured by the assurance in certain cases.
6. **Reliability**
   Electronic overpressure systems are not affected by wind loads, snow coverings or pressure changes due to cold or warm supply air.
7. **Reduction of construction costs**
   Openings for air outlets are not required. Control dampers and additional weather protection equipment are usually not necessary.
8. **Reduction of operating costs**
   No complex adjusting or cleaning of mechanical control dampers.
9. **Steady precision during life cycle**
   Electronic overpressure systems automatically compensate potential leakages due to normal wear and tear of the building.
10. **Architectural freedom**
    Huge air terminal devices or high roof fans are not required.

Control

- Pressure differential regulation module in control cabinet for wall mounting
- Integrated control module for EC driven motors or frequency inverter
- Automatic regulation system for customisation of operational characteristics via numeric display
- Display of the operational characteristics in real time
- Integrated connection for suitable smoke detectors
- Integrated connection for manual call points
- Control of motorised damper
- Control input for daily ventilation

Components

The staircase pressure differential system is delivered as a project-related overall system.

Basic components include:

- Supply air fan unit MUB EC-P / MUB FU-P/B oder equivalent axial fans
- Pressure differential control panel module 230V AWS-ÜD-EC or suitable control panel 230V AES-ÜD-FU
- Pressure differential control panel module 24V AES-ÜD-EC or suitable control panel 24V AES-ÜD-FU
- incl. pressure differential sensor

You will find standard accessories on page 365 or in our online-catalogue on **www.systemair.com**.

Function

Multibox EC

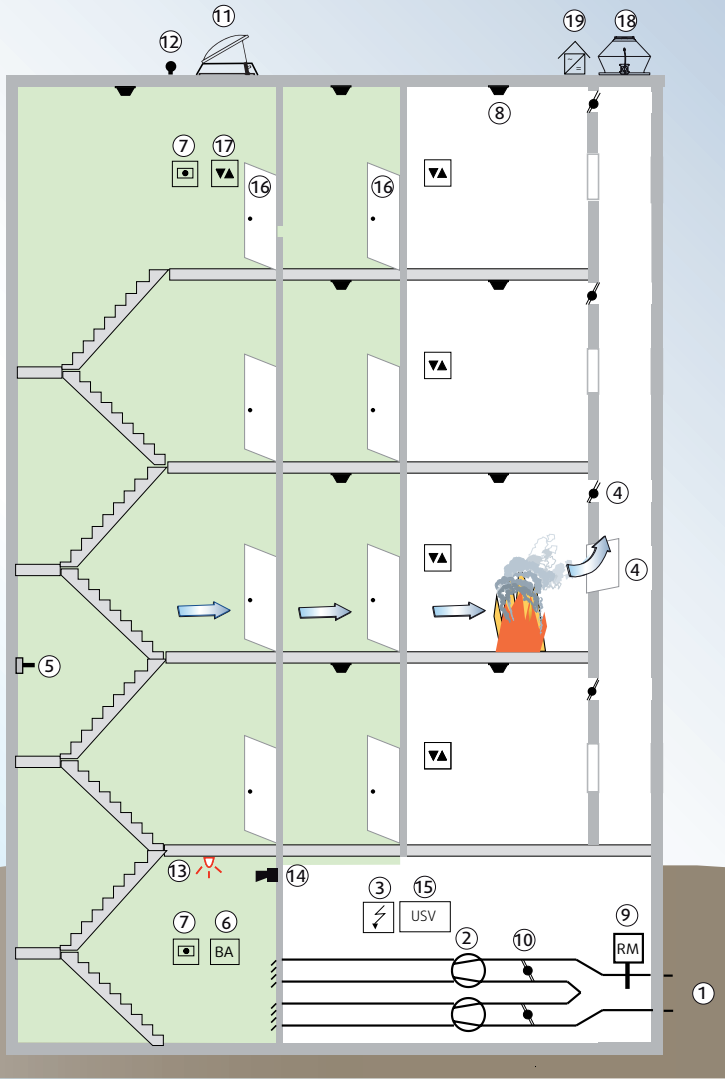
Thanks to a special control system, we are able to realise a constant differential pressure in staircases, using EC fans. The constantly-measured differential pressure is evaluated in the control system in real-time and compared with corresponding setpoint values. The speed of the EC fans is adjusted by the control system so that the setpoint values are adhered to in the staircase. This prevents the forces required to open the doors from getting too high (max. 100 N). The minimum air speed needed through open doors between staircase and fire zone (min. 0.75 m/s depending on the individual straircase) is achieved by a selective control of the exhaust air volumes in the individual floors (through windows for example). A light dome can assist to have a constant air change in the staircase, and can also be used for daily ventilation as an option. Another option is to couple a smoke extract fan to the system. The smoke extract fan serves as auxiliary fan in case the extract points in the individual floors lead to a shaft having a high pressure loss.

① Fresh air intake
② Supply air fan MUB EC
③ Smoke pressure system control
④ Control air discharge opening (window, damper, door)*
⑤ Pressure sensor
⑥ Operating mode switch
⑦ Push-button switch
⑧ Smoke detector
⑨ Duct smoke detector
⑩ Fresh air damper
⑪ Light dome

Optional:

⑫ Wind and rain sensor
⑬ Flashing light
⑭ Acoustic alarm
⑮ Uninterruptible power supply
⑯ Door closer contact
⑰ Switch to activate daily ventilation
⑱ Exhaust fan DVG F400
⑲ Frequency inverter incl. fire mode for exhaust fan

*not necessary for make up air systems



Axial fan with frequency control

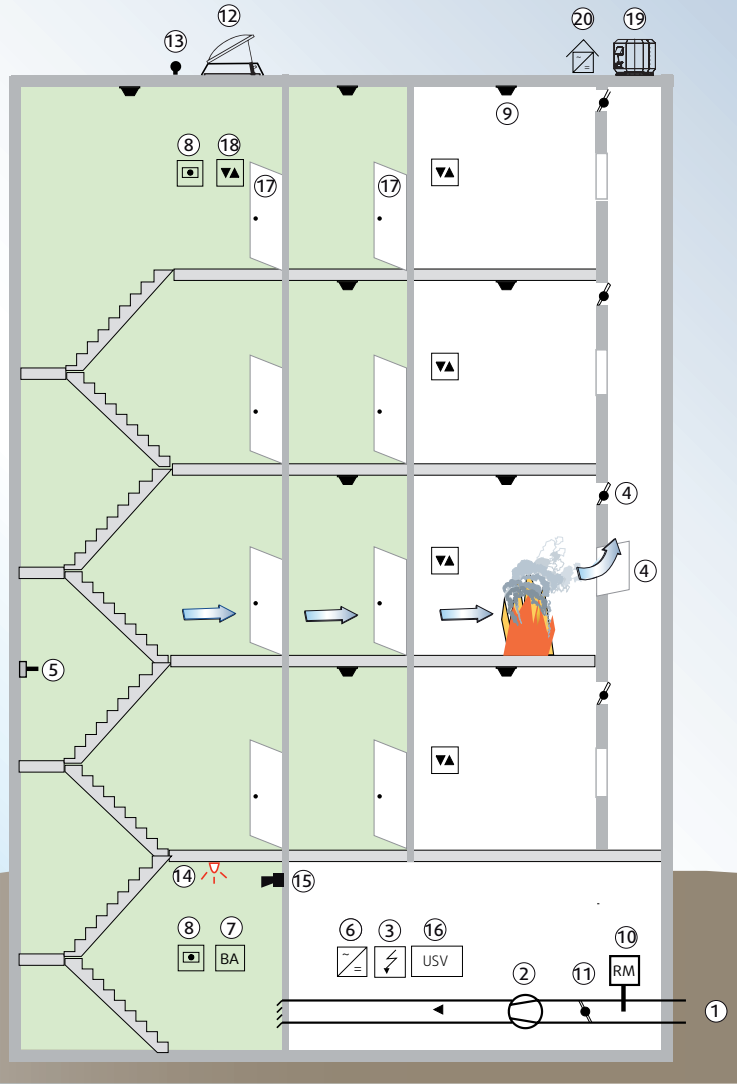
Thanks to a special control system, a constant differential pressure is realised in the stairwell using AXC fans. The constantly-measured differential pressure is evaluated in the control system in real-time and compared with corresponding setpoint values. The speed of the fans is adjusted by the control system so that the setpoint values are adhered to in the stairwell. This prevents the forces required to open the doors from getting too high (max. 100 N). The minimum air speed needed through open doors between staircase and fire zone (min. 0.75 m/s depending on the individual staircase) is achieved by a selective control of the exhaust air volumes in the individual floors (through windows for example). A light dome can assist to have a constant air change in the staircase, and can also be used for daily ventilation as an option. Another option is to couple a smoke extract fan to the system. The smoke extract fan serves as auxiliary fan in case the extract points in the individual floors lead to a shaft having a high pressure loss.

① Fresh air intake
② Supply air fan
③ Smoke pressure system control
④ Control air discharge opening (window, damper, door)*
⑤ Pressure sensor
⑥ Frequency converter incl. Firemode for supply fan
⑦ Operating mode switch
⑧ Push-button switch
⑨ Smoke detector
⑩ Duct smoke detector
⑪ Fresh air damper
⑫ Light dome

Optional:

⑬ Wind and rain sensor
⑭ Flashing light
⑮ Acoustic alarm
⑯ Uninterruptible power supply
⑰ Door closer contact
⑱ Switch to activate daily ventilation
⑲ Exhaust fan F400/F600
⑳ Frequency inverter incl. fire mode for exhaust fan

*not necessary for make up air systems



MUB EC

Multibox



Smoke extract fans

- High efficiency in all areas of the fan curve
- Removable panels
- Flexible air flow direction
- Installation in any mounting position
- Low sound level

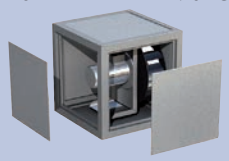
Change the exhaust direction on site by simply changing the positions of the side panels!



Straight through airflow



90° airflow



Change the exhaust direction

Casing

The casing consists of an aluminium frame with fibreglass reinforced plastic corners of PA6. The double skin panels are manufactured from galvanized steel with 20 mm mineral wool insulation.

Motor

MUB EC fans are driven by EC external rotor motors. All motors are suitable for 50/60 Hz.

Impeller

All models are equipped with impellers with backward curved blades, manufactured from aluminium.

Speed control

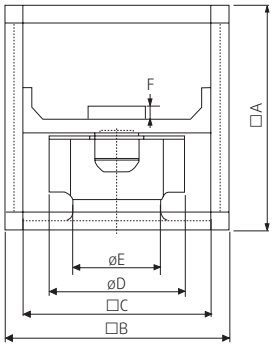
100% speed control by a 0-10 V signal.

Motor protection

Integrated electronic motor protection.

Please find more information in our online-catalogue on www.systemair.com

Dimensions



MUB EC	□A	□B	□C	ØD	ØE	F
560	800	800	720	560	360	70
630	800	800	720	630	407	70
710	1000	1000	920	806	470	73

Technical data

MUB EC		062 560 EC-UDA	062 630 EC-UDA	100 710 EC-UDA
Art. no.		*34563*	*34564*	*37891*
Voltage	V	400	400	400
Frequency	Hz	50	50	50
Phase	~	3	3	3
Power	W	1987	2479	6434
Current	A	3.05	3.80	8.96
Max. airflow	m^3/h	10790	12860	26806
Fan impeller speed	r.p.m.	1358	1208	1205
Max. temp. of transported air	°C	60	60	40
*when speed-controlled	°C	60	60	40
Sound pressure level at 3 m (20 m^2 Sabine)	dB(A)	64	68	74
Weight	kg	101	91	175
Insulation class. motor		F	F	F
Enclosure class. motor	IP	54	54	54

AXC

Axial fan



IE2
2009/640/EG

- AXC with aerofoil impeller, adjustable pitch angle for maximum efficiency
- Die cast aluminium hub and blades
- Terminal box in IP65 mounted at the outside of the casing for easy wiring
- Suitable for operating temperatures between -20 °C and +55 °C
- Inspection hole to verify correct direction of rotation

The adjustable pitch angle setting offers a wide performance and maximum flexibility to match precisely individual airflow requirements. The AXC axial fans have been performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99 on the Systemair fan test rig.

Impeller

The AXC die cast aerofoil aluminium impellers can be offered with full or fractional solidities, maximum efficiencies can be obtained. Different impeller/hub configurations allow high operating pressures.

Casing

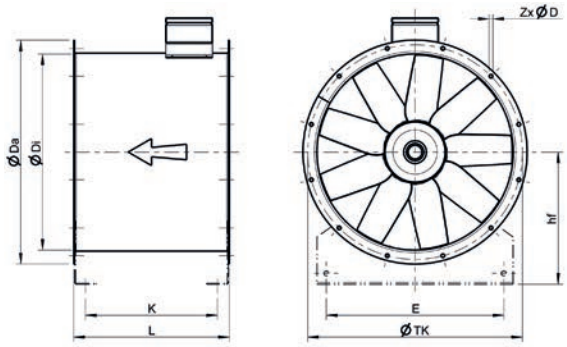
Axial fan casings are heavy gauge, galvanized, with spun flanges for high rigidity. Long cased execution as standard stock range. Also available with short casing and with an acoustically insulated box.

Motor

Three phase motor, IP55, insulation class F, IEC standard. The built-in motors are equipped with PTC thermistors for optimum motor protection. Single or two speed motors. Speed controllable by frequency inverter.

Please find more information in our online-catalogue on www.systemair.com

Dimensions



AXC	ØDa	ØDi	hf	ØTK	E	zxØd	Motor	L	K
560	650	560	375	620	500	12x12	80-112	500	424
							132-160	750	674
630	720	630	425	690	570	12x12	80-112	500	424
							132-160	750	674
900	1005	900	560	970	830	16x15	100-132	640	552
							160-200	762	850
1000	1105	1000	670	1070	930	16x15	100-132	552	640
							160-200	762	850

Technical data

AXC		1000-5/16°-4 EK	900-10/16°-4 EK	630-6/16°-2 EK	630-6/11°-2 EK	560-6/14°-2 EK
Art. no.		*31531*	*31532*	*31533*	*31534*	*31535*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Power	kW	11	11	11	7.5	5.5
Current	A	21.2	21.2	19.3	13.7	10.1
Max. airflow	m^3/h	32000	26700	21400	16500	12800
Fan impeller speed	r.p.m.	1465	1465	2945	2930	2930
Max. temp. of transported air	°C	55	55	55	55	55
*when speed-controlled	°C	55	55	55	55	55
Sound pressure level at 3 m (20 m^2 Sabine)	dB(A)	75	72	79	78	76
Weight	kg	273	272	193	191	191
Insulation class. motor		F	F	F	F	F
Enclosure class. motor	IP	55	55	55	55	55

DVV and DVG

Roof fan



DVV

Smoke extract fans

- Max. temperature 400°C/120 min, 600°C/120 min.
- IE2 high efficiency motor inside
- Suitable for coastal applications
- Vertical exhaust
- Low sound level

Casing

The casing is manufactured from seawater resistant aluminium. The base frame consist of galvanised steel.

Motor

Frequency converter controllable IEC flange motors which comply with Efficiency Class IE2.

Impeller

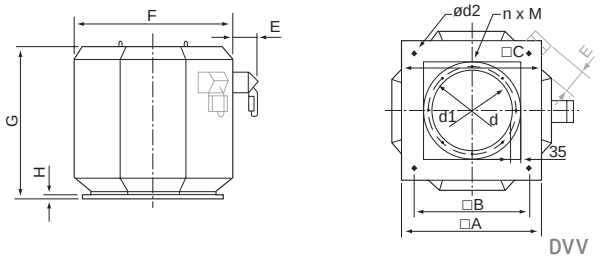
The impeller with backward-curved blades is manufactured from galvanized steel (F400) or stainless steel (F600).

Speed control

For speed control use frequency inverter.

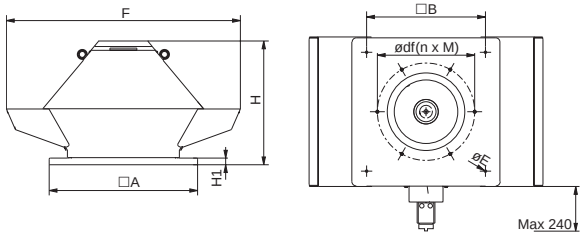
Please find more information in our online-catalogue on www.systemair.com

Dimensions



DVV

DVV	ød2	F	G	H	nxM	□A	□B	□C	ød	ød1
630	18	1100	958	40	12xM8	995	880	990	500	541
800	18	1272	1165	40	16xM10	995	880	990	630	674



DVG-V

DVG-V	□A	□B	øE	F	ødf (n x M)	H1	H
630	1039	840	14	1573	674 (8xM8)	40	858
800	1255	1050	14	2024	872 (8xM8)	40	999

Technical data

DVV		DVV 800D6/F600 IE2*	DVV 630D4/F600 IE2*	DVG-V 800D6/F400 IE2	DVG-V 630D4/F400 IE2
Art. no.		*95191*	*95183*	*95128*	*95171*
Voltage	V	400	400	400	400
Motor circuit connection		D	Y/Y	D	D
Frequency	Hz	50	50	50	50
Phase	~	3	3	3	3
Power	W	6390	6700	5857	5000
Current	A	12.6	11	12.6	9.7
Starting current	A	76	95	76	63
Max. airflow	m^3/h	25500	19300	25500	17670
Fan impeller speed	r.p.m.	960	1455	960	1440
Max. temperature 120 min.	°C	600	600	400	400
Sound pressure level in 4 m	dB(A)	72	75	74	75
Sound pressure level in 10 m	dB(A)	64	69	66	69
Weight	kg	213	144	212	128
Insulation class. motor		F	F	F	F
Enclosure class. motor	IP	54	54	55	55

*also available in F400



IHS

Induction thrust fan



The IHS is an induction thrust fan in a compact casing with an integrated, direct driven high performance centrifugal fan. It can be supplied with on-off switch (optional) and is suitable for horizontal installation.

Casing
Casing manufactured from galvanised steel, for maximum protection against corrosion.

Motor
3-phase motors according to IEC standards; protection class IP55.

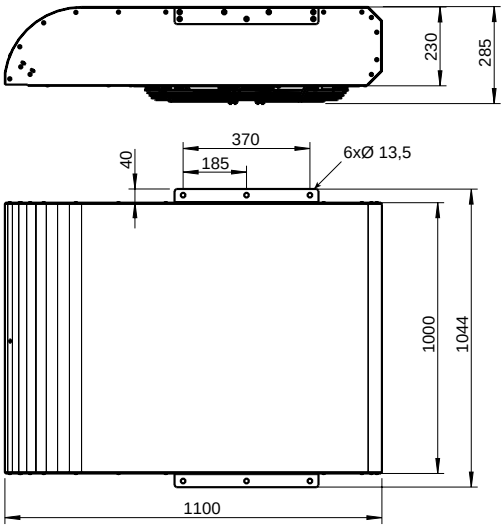
Impeller
Aerodynamic centrifugal impeller for maximum boost and minor sound emission.

Please find more information in our online-catalogue on www.systemair.com

Smoke extract fans

- Easy installation and maintenance
- Reduces the required supply air volume
- Supply and extract air shafts can be minimized - which saves space and money
- Compact design for low ceilings
- Suitable for mounting in false ceilings

Dimensions



Technical data

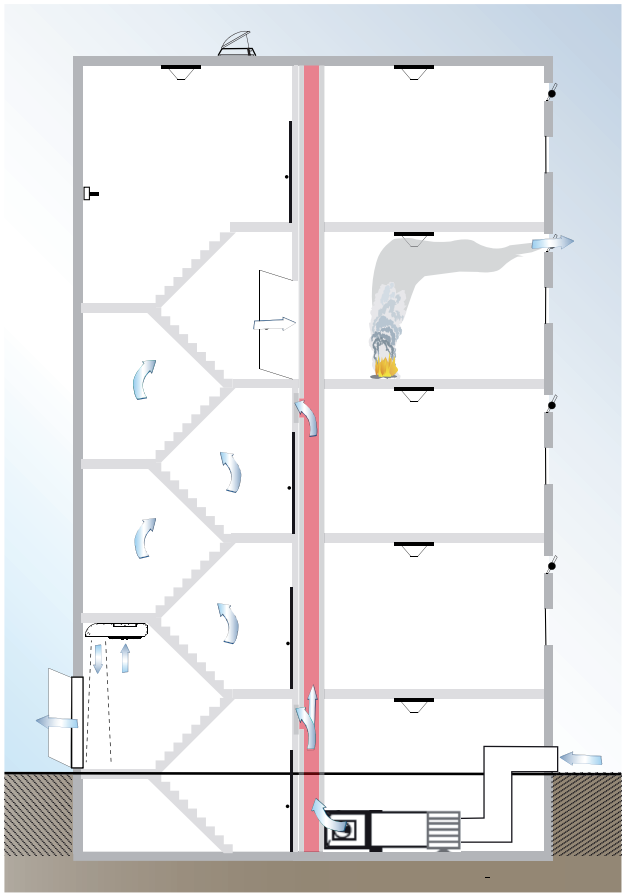
IHS		50-4/6 (B)	50-4/8 (B)
Art. no.		*37254*	*37255*
Voltage	V	400	400
Frequency	Hz	50	50
Phase	~	3	3
Power	W	1500	1300
Current	A	3.7	3.3
Starting current	A	25.9	15.6
Thrust	N	52	52
Max. airflow	m^3/h	6196	6138
Fan impeller speed	r.p.m.	1445	1430
Max. temperature	°C	55	55
Max. temp. of transp. air for 120 min.	°C	300	300
Sound pressure level 3 m (free field)	dB(A)	73	73
Weight	kg	100	100
Insulation class. motor		H	H
Enclosure class. motor	IP	55	55

Functional principle of IHS

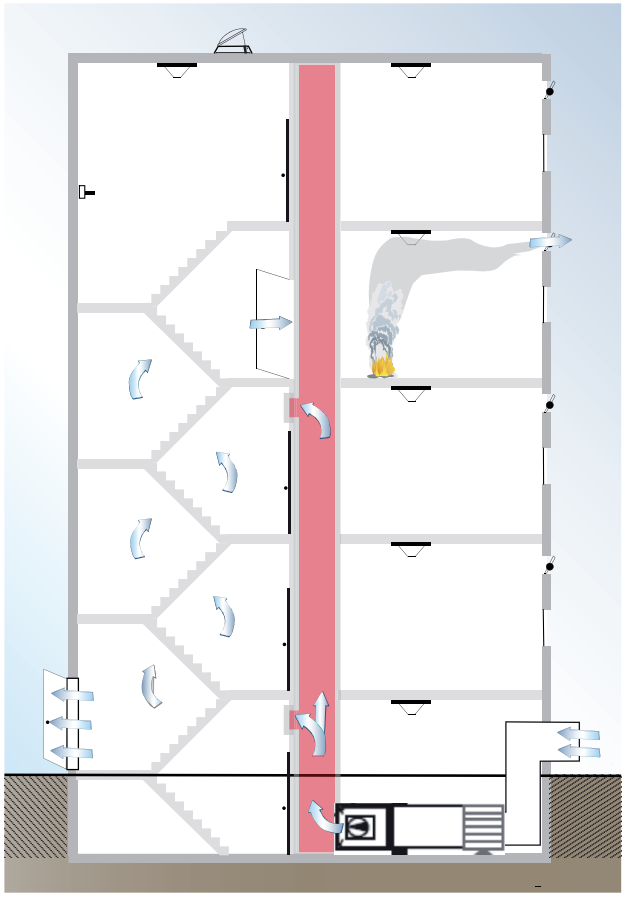
New ideas and approaches to overcome physical limitations.

Depending on the staircase, an air speed of 0.75 or 2 m/s must be maintained at the open door to the room with the fire. When the exit door is opened for people to escape, a certain amount of air is escaping at the same time. This air volume has to be returned to the staircase. With the help of IHS the amount of lost air volume is reduced, which can be used to minimize the the supply air fan capacity and duct dimensions. This reduces the cost and takes up less space.

The IHS induction fan is installed above the exit door and with the air curtain effect in a high velocity reducing the volume losses through the opening.



With IHS



Without IHS

Accessories

Operating mode switch



Operating switch for overpressure system control mode. With protection glass. This switch has absolute priority! All other activators have lower ranking. In case of cutting the connection cable the „max. overpressure mode" is activated. Plastic casing.

AES-UD-BA		
Art. no.		*35719*
h/w/d	mm	125/125/70
Enclosure class	IP	44
Colour		red

Duct smoke detector



Duct smoke detector with 600 mm air sampling tube for detecting smoke in the fresh air duct, with potential-free output contact and LED contamination display.
Connection bolts: 3 x M16

KRM		230 V AC	24 V AC
Art. no.		*35937*	*35720*
h/w/d	mm	257/166/77	257/166/77
Enclosure class	IP	54	54

Multi sensor smoke detector



Smoke detector (optical and thermal) with socket for connection with Multi-sensor alarm with limit-value technology, in compliance with DIN-EN 54-7, with VdS approval. High operational safety thanks to intelligent evaluation of the optical and thermal signal.

AMM-2		
Art. no.		*35711*
Enclosure class	IP	40
Material		ABS
Colour		white

Smoke detector



Automatic smoke alarm with limit-value technology, in compliance with DIN-EN 54-7, with VdS approval. High operational safety thanks to intelligent evaluation of the optical signal, with detector base.

ARM-1		
Art. no.		*35710*
Enclosure class	IP	40
Material		ABS
Colour		white

Flash light



The flashing light as optical alarm in the case of fire.

BL-1		
Art. no.		*36358*
Voltage	V	230

Acoustic alarm



Acoustic alarm signal.

H-230		
Art. no.		*36359*
Voltage	V	230
Enclosure class	IP	43
Material		Plastic
Colour		grey

Light dome



The light dome can be used as opening for daily ventilation purposes, for constant air changes in the staircase. Available in a range of sizes.

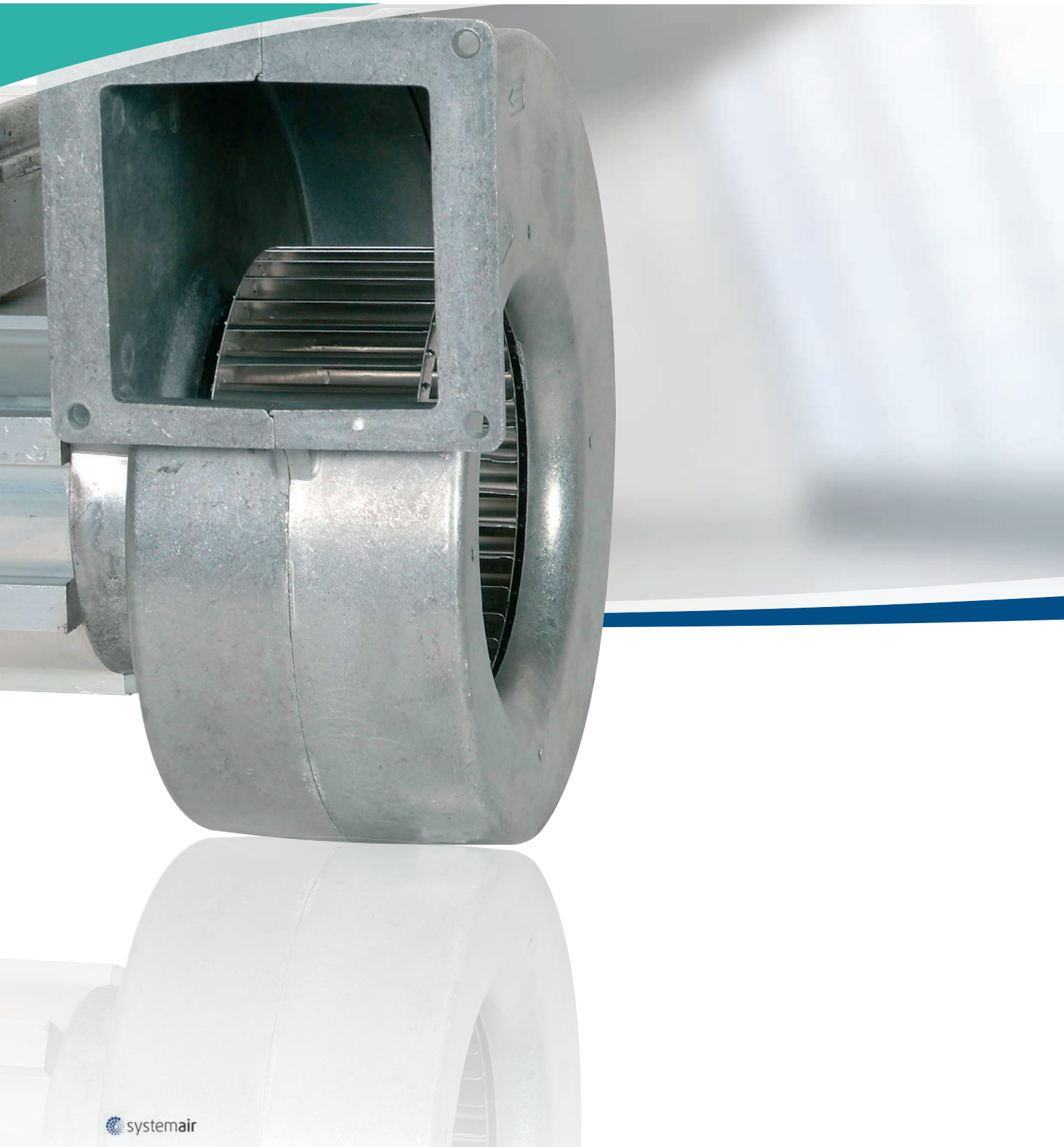
Wind and rain sensor



The wind and rain sensor detects and evaluates the wind speed and precipitation. If wind, rain or snow is coming, it switches off the ventilation and closes the light dome.

AES-ÜD-DKWR	
Art. no.	*36798*

Explosion proof fans



Systemair explosion proof fans have been developed to be used in effective supply and exhaust air systems allocated to category 2 (zone 1) and category 3 (zone 2) in explosion hazardous areas.

All fans are manufactured in accordance with ATEX guideline 94/9/EC certified for EC countries. Certificates can be downloaded from our homepage.
The fans are suitable for mounting in above mentioned explosion hazardous zones, for extraction of gases.

All explosion prood fans according to ATEX guideline ATEX 94/9/EC (II 2G)

RVK-EX 376

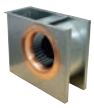
Circular duct fan

EX 378

Centrifugal fan

KTEX 382

Rectangular duct fan

DKEX 386

Centrifugal fan

DVEX 390

Roof fan

DVV-EX 394

Roof fan

AW-EX 400

Axial fan

AXC-EX 404

Axial fan

AXCBF-EX 408

Axial fan

Selection of explosion proof fans

The system user is responsible for the correct system design for a proper operation. Manufacturers are responsible only for the appearance and workmanship of the supplied components.

In the industry explosion hazardous areas are classified in zones. ATEX classifies the fans in categories, corresponding to the zones. Categories are independent from the substance causing the explosion hazard. The classification in categories (or zones) is related to the temporal appearance (frequency of occurence) of explosion hazardous atmosphere. Basically the correct zone or category can only be given by the user of the system, after having conducted an analyse regarding the occurence of explosion hazardous gases or mixtures in the project. The categories or zones do not define the concentration!

Category 1 (zone 0) covers areas, where there is a permanent or long lasting occurrence of explosion hazardous atmosphere.
Example: Inside a fuel tank.

Category 2 (zone 1) covers areas, where there is a regular occurence of explosion hazardous atmosphere.
Example: Filling machine.

Category 3 (zone 2) covers areas, where there is a non-regular or short time appearance of explosion hazardous atmosphere.
Example: defective gas pipe, accidents.

All Systemair explosion proof fans correspond with category 2, allowing an application in zone 1 and zone 2. Pre-selection depends on the medium to be transported. Each medium has an individual ignition temperature. Systemair explosion proof fans comply with temperature classification T3, some units can also be used in T4.

The following table shows possible temperature classifications.



Labelling of an ATEX approved fan:

Temperature classification	Ignition temp. of different gas mixtures	Max. surface temp. of electrical equipment
T1	> 450 °C	450 °C
T2	> 300...> 450 °C	300 °C
T3	> 200...> 300 °C	200 °C
T4	> 135...> 200 °C	135 °C
T5	> 100...> 135 °C	100 °C
T6	> 85...> 100 °C	85 °C

Group	Gases an vapours of substances
IIA	acetone, ammonia, ethyl alcohol, fuel, benzene, methane, propane, carbon dioxide
IIB	ethylene, town gas, diethyl ether
IIC	hydrogen, carbon disulphide, acetylenen

i	intrinsic safety
c*	constructional safety
d*	flameproof enclosure
e*	increased safety
p	pressurized
o	oil immersion
m	encapsulation
q	powder filling
nA*	non sparking

Ex **d** IIC T4

* in the Systemair range

The ignition temperature of the medium, but also the classification in explosion groups is important.

Explosion proof fans from Systemair are approved (according to type) for the transportation of substances corresponding to explosion group IIA, IIB and IIC.

Eg. hydrogen is grouped in temperature class T1, also in group IIC. This gas can be transported with fans of our rang AXC-EX, AXCBF-EX, KTEX, DKEX.

The last decision has to be made regarding the types of protection. Explosion proof fans from Systemair correspond either to types of protection Ex e increased saftey or protection Ex d = pressure resistant capsulation. The types of protection always refer to the installed explosion proof motor (except c, it refers to the mechanical construction).

RVK-EX

Circular duct fan



- Tested according to the ATEX Directive 94/9/EC
- Can be installed in any mounting position
- „Ex e" ignition protection type (increased safety)
- Speed controllable via voltage
- Vibration-free connection to the duct system with FK Fast clamp (accessories)

Casing
Casing made from conductive plastic.

Motor
Voltage controllable external rotor motor.

Impeller geometry
Radial impeller with backward curved blades.

Output control
Combined with a Systemair U-EK230E motor protection relay, the speed can be regulated using a 5-stage voltage controller.

Motor protection
Motor protection via PTC thermistors, combined with a separately-connected motor protection device.

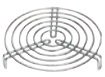
The RVK-EX can be used for temperature classes T1, T2 and T3 classification in accordance with ATEX 94/9/EC. Conveyance of potentially explosive gases in Zone 1 and Zone 2, as well as Groups IIA and IIB, is also possible.

You can find more information in our online catalogue on www.systemair.com

Accessories



FK
Fast clamp
Page 514



SG
Protection guard
Page 515

Electrical accessories



Ex e
Terminal box
Page 511



R-DK4 KT
Transformer
Page 485



RTRD
Speed control
Page 485



U-EK230E
Motor protection
Page 502

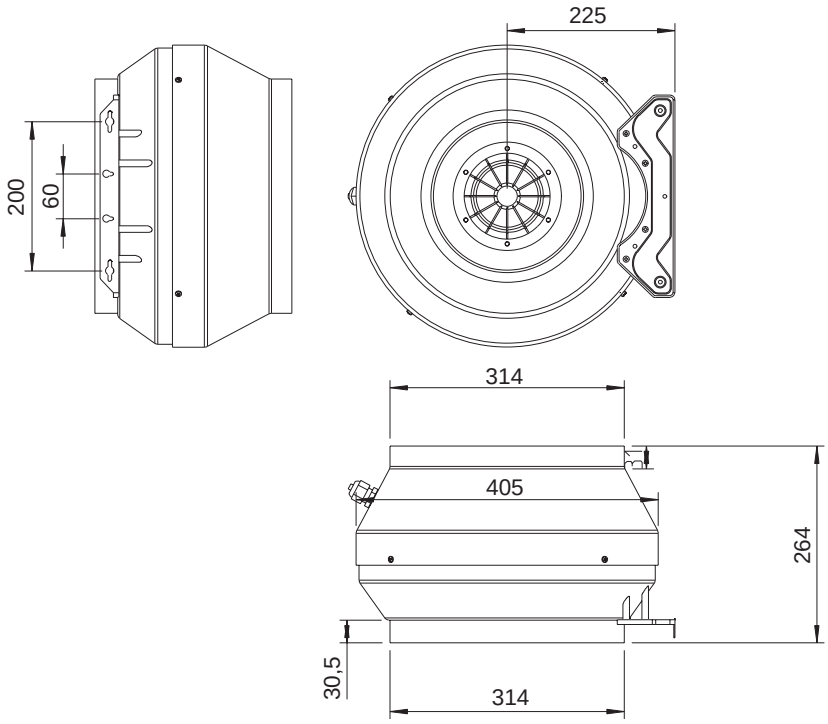


REV-ATEX
Switching device
Page 510

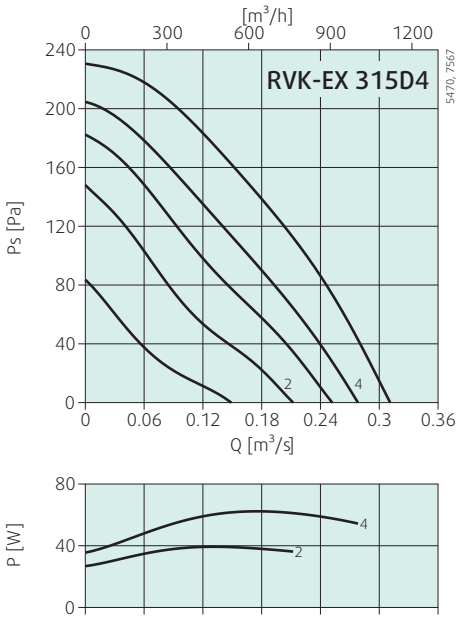
Technical data

RVK		RVK-EX 315D4
Art. no.		*37177*
Voltage	V	400
Frequency	Hz	50
Phase	~	3
Input power (P1)	W	84.4
Current	A	0.2
Max. airflow	m^3/h	1120
Fan impeller speed	r.p.m.	1385
Max. temperature of transported air	°C	40
* when voltage-controlled	°C	40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	41.2
Weight	kg	7.1
Insulation class		B
Enclosure class, motor	IP	44
Certificate		ZELM 03AREX0198X
Explosion proof		II 2G c Ex e IIB T3

Dimensions



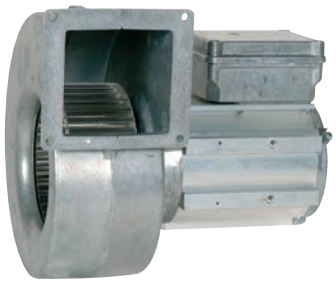
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	42	61	63	63	61	56	54	44
L_{wA} Outlet dB(A)	69	47	62	63	62	63	59	55	45
L_{wA} Surrounding dB(A)	50	16	27	37	46	47	41	34	25

Measurement point: 240 l/s; 86.2 Pa

EX Centrifugal fan



- Tested according to the ATEX Directive 94/9/EC
- „Ex e" ignition protection type (increased safety)
- Can be used in battery charging compartments, extractor hoods and similar environments
- Can be installed in any mounting position

Casing
The casing is manufactured from silumin.

Motor
The fan is driven by specially manufactured Ex motors. The single-phase motors have a sand-enclosed capacitor, which is approved by ATEX.

Impeller geometry
Radial impeller with forward curved blades made from aluminium.

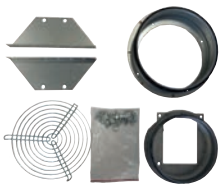
Output control
The Ex fans are not speed controllable.

Motor protection
In compliance with the ATEX certificate, the motor protection must be performed using a motor protection switching device of the type MSEX.

The Ex fans can be used for temperature classes T1, T2 and T3 classification in accordance with ATEX 94/9/EC. Conveyance of potentially explosive gases in Zone 1 and Zone 2, as well as Groups IIA and IIB, is also possible.

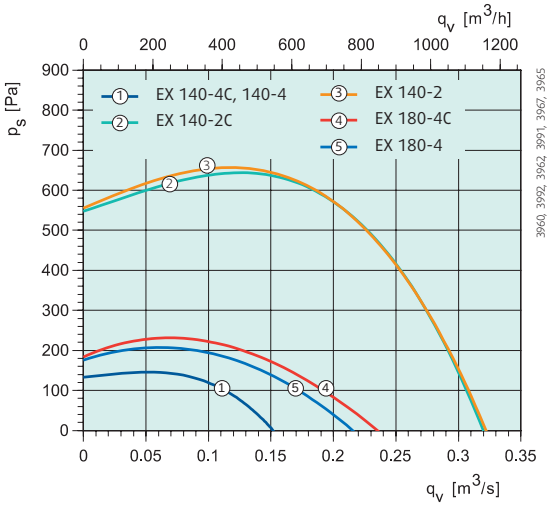
You can find more information in our online catalogue on www.systemair.com

Accessories



Connection accessories kit
Page 564

Quick selection

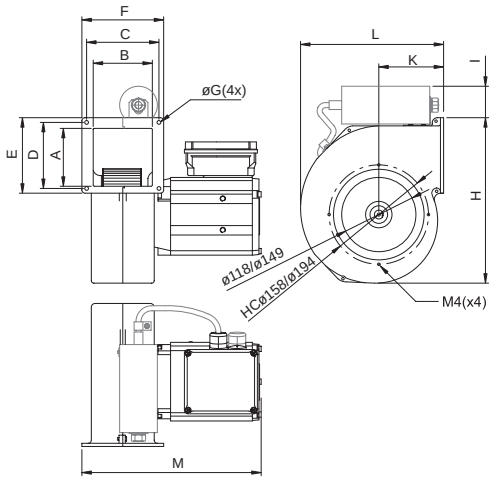


Electrical accessories



MSEX
Motor protection
Page 501

Dimensions



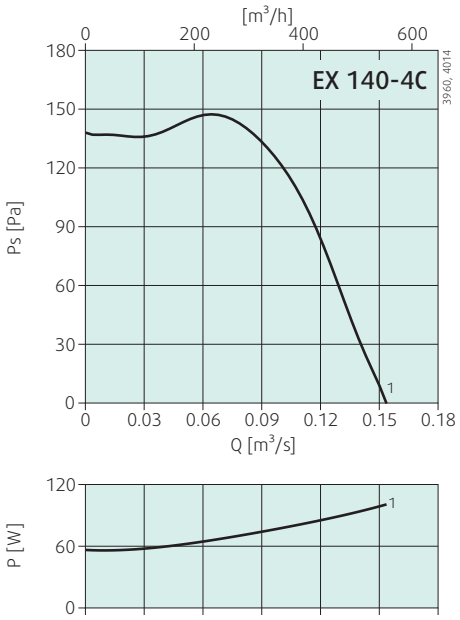
EX	A	B	C	D	E	F	øG	H	I	K	L	M
140-2	92	94	115	105	120	130	6	261	–	103	226	285
140-2C	92	94	115	105	120	130	6	261	50	103	226	285
140-4	92	94	115	105	120	130	6	261	–	103	226	255
140-4C	92	94	115	105	120	130	6	261	50	103	226	255
180-4	109	86	110	120	140	125	7	294	–	120	261	255
180-4C	109	86	110	120	140	125	7	294	50	120	261	255

Technical data

EX		EX 140-4C	EX 140-2C	EX 140-4	EX 140-2
Art. no.		*1557*	*1559*	*1560*	*1562*
Voltage	V	230	230	400	400
Frequency	Hz	50	50	50	50
Phase	~	1	1	3	3
Input power (P1)	W	113	674	131	696
Current	A	0.63	3	0.38	1.28
Max. airflow	m^3/h	554	1174	583	1177
Fan impeller speed	r.p.m.	1465	2885	1465	2890
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40	-20..40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	42.7	49.1	41.3	47.4
Weight	kg	7.5	9.3	6.7	8.7
Insulation class		F	F	F	F
Enclosure class, motor	IP	54	54	54	54
Capacitor	µF	8	25		
Motor protection		MSEX 0.4 - 0.63	MSEX 2.5 - 4.0	MSEX 0.25 - 0.4	MSEX 1.0 - 1.6
Certificate		SP03ATEX3101X	SP03ATEX3101X	SP03ATEX3101X	SP03ATEX3101X
Explosion proof		II 2G EEx eq II T3	II 2G EEx eq II T3	II 2G EEx eq II T3	II 2G EEx eq II T3

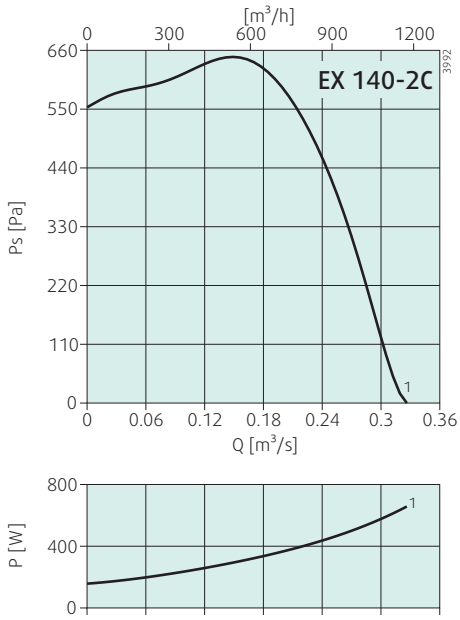
EX		EX 180-4C	EX 180-4	
Art. no.		*1558*	*1561*	
Voltage	V	230	400	
Frequency	Hz	50	50	
Phase	~	1	3	
Input power (P1)	W	177	188	
Current	A	0.89	0.43	
Max. airflow	m^3/h	850	781	
Fan impeller speed	r.p.m.	1415	1435	
Temperature range, ambient and duct	°C	-20..40	-20..40	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	41.2	41.9	
Weight	kg	7.8	7	
Insulation class		F	F	
Enclosure class, motor	IP	54	54	
Capacitor	µF	8		
Motor protection		MSEX 0.63 - 1.0	MSEX 0.4 - 1.0	
Certificate		SP03ATEX3101X	SP03ATEX3101X	
Explosion proof		II 2G EEx eq II T3	II 2G EEx eq II T3	

Performance



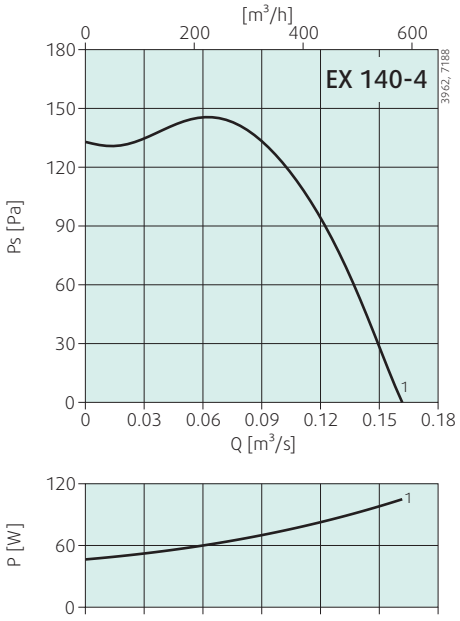
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	26	44	53	56	62	59	55	49
L_{wA} Outlet dB(A)	73	48	61	65	67	68	62	58	54
L_{wA} Surrounding dB(A)	57	21	28	37	48	50	52	50	44

Measurement point: 131 l/s; 55.6 Pa



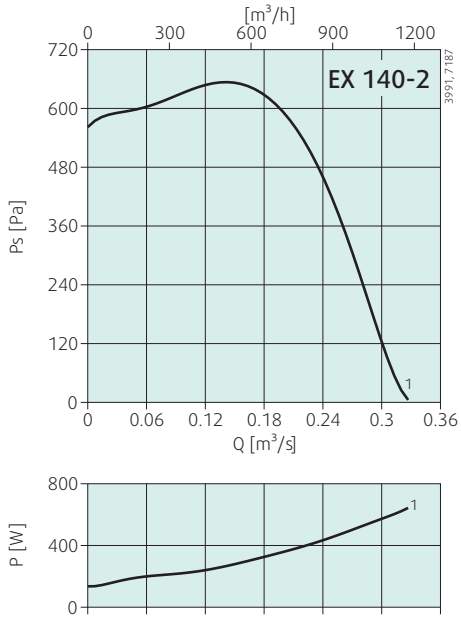
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	42	54	67	69	76	79	73	67
L_{wA} Outlet dB(A)	88	73	69	77	80	81	83	76	71
L_{wA} Surrounding dB(A)	66	29	36	47	57	58	63	57	52

Measurement point: 273 l/s; 297 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	66	30	49	57	56	62	59	56	51
L_{wA} Outlet dB(A)	72	50	64	65	65	66	61	58	55
L_{wA} Surrounding dB(A)	57	19	30	43	46	47	51	52	48

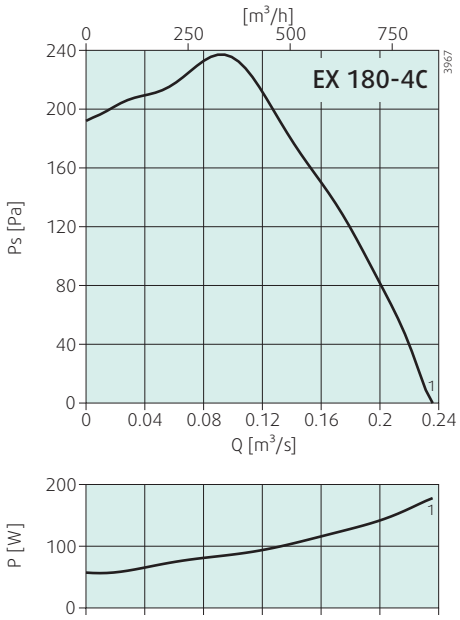
Measurement point: 138 l/s; 57.1 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	34	54	67	67	76	78	72	66
L_{wA} Outlet dB(A)	86	63	71	77	78	79	80	74	69
L_{wA} Surrounding dB(A)	64	23	34	47	52	56	61	56	52

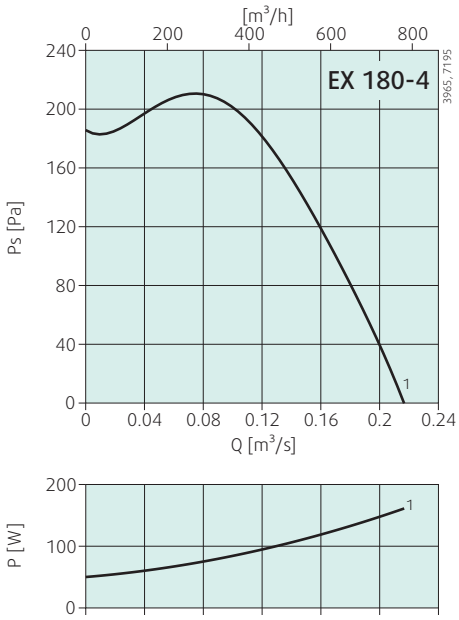
Measurement point: 264 l/s; 341 Pa

Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	33	47	58	60	65	62	60	57
L_{wA} Outlet dB(A)	74	56	64	66	68	70	62	60	55
L_{wA} Surrounding dB(A)	56	32	31	38	50	52	47	47	43

Measurement point: 182 l/s; 115 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	68	34	49	57	60	64	60	58	54
L_{wA} Outlet dB(A)	74	61	65	66	68	68	60	57	54
L_{wA} Surrounding dB(A)	56	29	32	38	48	52	48	45	41

Measurement point: 166 l/s; 108 Pa

KTEX

Rectangular duct fan



- Tested according to the ATEX Directive 94/9/EC
- Can be installed in any mounting position
- „Ex e" ignition protection type (increased safety)
- Speed controllable via voltage

Accessories



DS EX
Flex. connection
Page 564



FFK
Filter cassette
Page 527



LDR
Silencer
Page 526



VBR
Water heating battery
Page 532

Electrical accessories



Ex e
Terminal box
Page 511



R-DK4 KT
Transformer
Page 485



RTRD
Speed control
Page 485



U-EK230E
Motor protection
Page 502



RTRDU
Speed control
Page 486



REV-ATEX
Switching device
Page 510

Casing
The casing is manufactured from galvanised steel. The intake nozzle is made of copper.

Motor
Voltage controllable external rotor motors with pre-attached cable.

Impeller geometry
Radial impeller with forward curved blades made from galvanised steel.

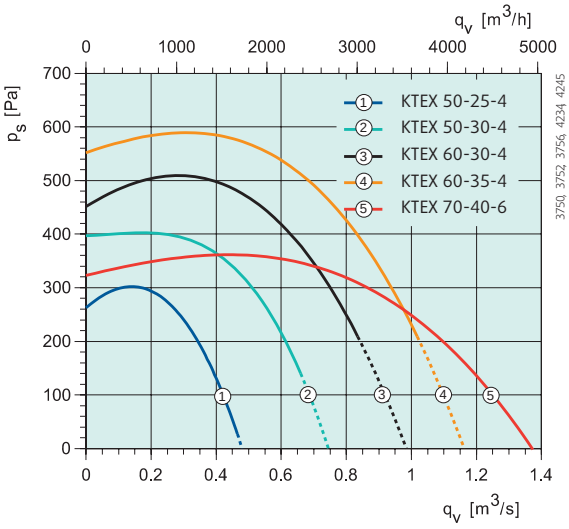
Output control
Speed controllable via a 5-stage transformer.

Motor protection
Motor protection via PTC thermistors, combined with a separately-connected motor protection device.

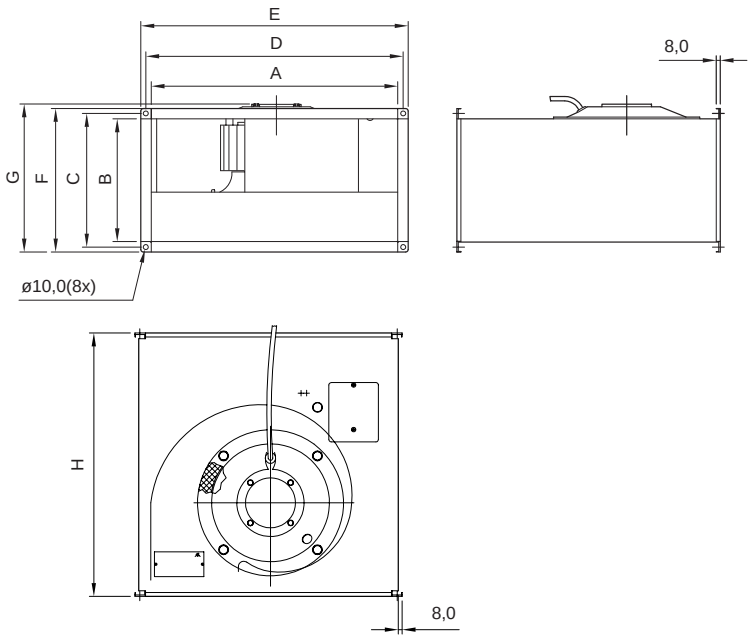
The fans can be used for temperature classes T1, T2 and T3 classification in accordance with ATEX 94/9/EC. Conveyance of potentially explosive gases in Zone 1 and Zone 2, Groups IIA and IIB as well as for applications with hydrogen is also possible.

You can find more information in our online catalogue on www.systemair.com

Quick selection



Dimensions



KTEX	A	B	C	D	E	F	G	H
50-25-4	498	248	270	520	540	290	299	532
50-30-4	498	298	320	520	540	340	351	562
60-30-4	598	298	320	620	640	340	366	642
60-35-4	598	348	370	620	640	390	421	717
70-40-6	698	398	420	721	740	440	466	787

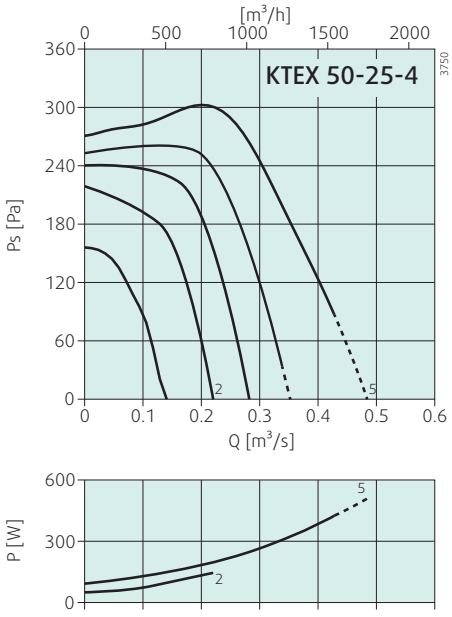
Technical data

KTEX		KTEX 50-25-4	KTEX 50-30-4	KTEX 60-30-4	KTEX 60-35-4	KTEX 70-40-6
Art. no.		*19402*	*19404*	*19406*	*19960*	*19961*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	490	900	1300	2100	1800
Current	A	0.85	1.8	2.2	3.9	3.7
Max. airflow	m^3/h	1534	2376	2952	3622	4950
Fan impeller speed	r.p.m.	1290	1355	1330	1380	840
Min. static back pressure	Pa	90	140	225	220	-
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40	-20..40	-20..40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	56.5	58	58	61.8	54.8
Weight	kg	17.6	22.8	30.8	42	48.5
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44
Motor protection		U-EK230E	U-EK230E	U-EK230E	U-EK230E	U-EK230E
Certificate		SP 12ATEX3164X				
Explosion proof		II 2G Ex e IIB+H2 T3 Gb				
Speed control, five-step [1]	Transf.	RTRD 2 *	RTRD 4 *	RTRD 4 *	RTRD 7 *	RTRD 4 *
Speed control, five-step high/low [1]	Transf.	RTRDU 2 *	RTRDU 4 *	RTRDU 4 *	RTRDU 7 *	RTRDU 4 *

* Only on combination with U-EK230E EX

[1] Systemair recommendation. More alternatives can be found on page 478.

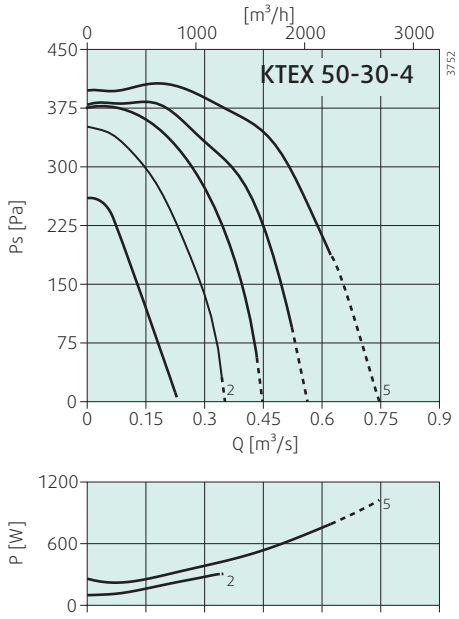
Performance



min. static pressure: 90 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	60	70	70	65	67	68	67	63
L_{wA} Outlet dB(A)	77	51	64	67	71	72	69	67	64
L_{wA} Surrounding dB(A)	68	61	63	60	57	58	54	52	48

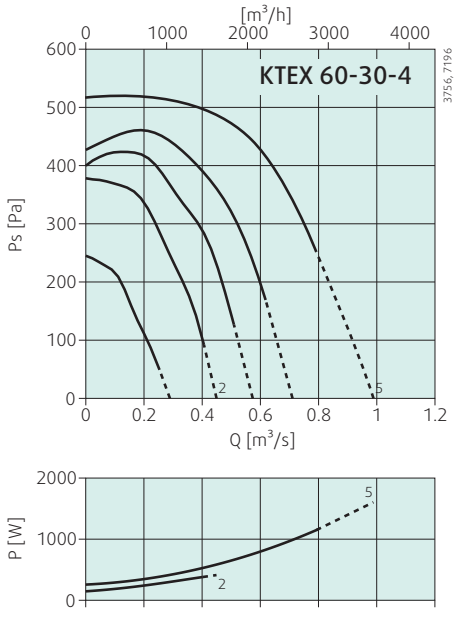
Measurement point: 392 l/s; 134 Pa



min. static pressure: 140 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	56	69	68	68	72	74	73	69
L_{wA} Outlet dB(A)	85	50	66	70	75	81	78	78	73
L_{wA} Surrounding dB(A)	70	57	59	64	60	64	60	57	54

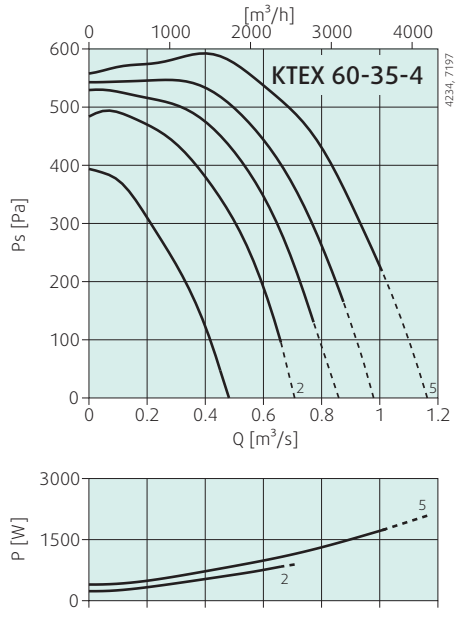
Measurement point: 609 l/s; 202 Pa



min. static pressure: 225 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	62	69	69	70	75	76	74	71
L_{wA} Outlet dB(A)	97	66	73	81	87	91	91	90	86
L_{wA} Surrounding dB(A)	71	60	63	63	61	63	64	60	55

Measurement point: 748 l/s; 300 Pa

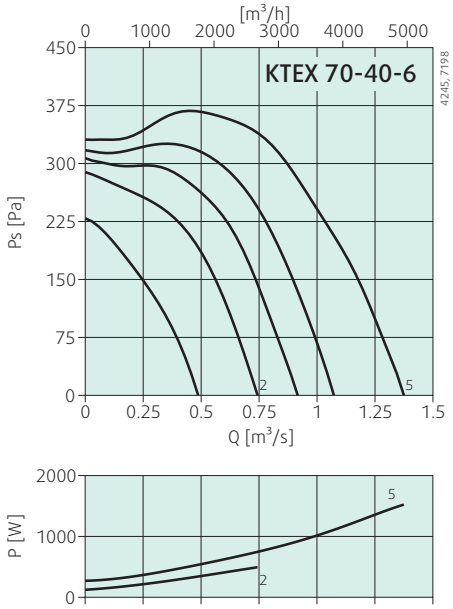


min. static pressure: 220 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	61	71	71	73	77	80	82	80
L_{wA} Outlet dB(A)	94	57	72	77	85	87	87	89	85
L_{wA} Surrounding dB(A)	76	52	67	64	65	68	70	71	67

Measurement point: 917 l/s; 317 Pa

Performance

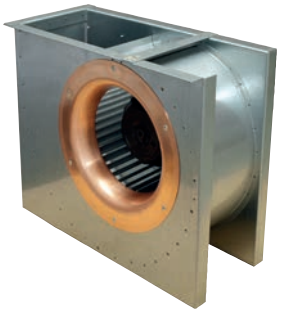


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	54	63	67	69	71	72	75	71
L_{wA} Outlet dB(A)	85	56	64	71	79	77	77	79	75
L_{wA} Surrounding dB(A)	69	46	59	60	62	62	60	62	59

Measurement point: 1095 l/s; 196 Pa

DKEX

Centrifugal fan



- Tested according to the ATEX Directive 94/9/EC
- Can be installed in any mounting position
- „Ex e" ignition protection type (increased safety)
- Can be used in battery charging compartments, extractor hoods and similar environments

Casing
The casing is manufactured from galvanised steel. The intake nozzle is made of copper.

Motor
Voltage controllable external rotor motors with pre-attached cable.

Impeller geometry
Radial impeller with forward curved blades manufactured from galvanised steel.

Output control
Speed controllable via a 5-stage transformer.

Motor protection
Motor protection via integrated PTC thermistors, combined with a separately-connected motor protection device.

The fans can be used for temperature classes T1, T2 and T3 classification in accordance with ATEX 94/9/EC. Conveyance of potentially explosive gases in Zone 1 and Zone 2, Groups IIA and IIB as well as for applications with hydrogen is also possible.

You can find more information in our online catalogue on www.systemair.com

Accessories



ISE
Flex. connection
Page 564



USE
Flex. connection
Page 564



SG-EX
Filter cassette
Page 565

Electrical accessories



Ex e
Terminal box
Page 511



R-DK4 KT
Transformer
Page 485



RTRD
Speed control
Page 485



U-EK230E
Motor protection
Page 502

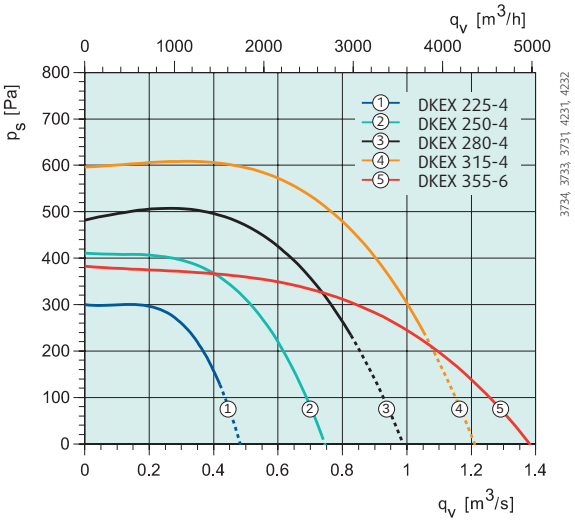


RTRDU
Speed control
Page 486

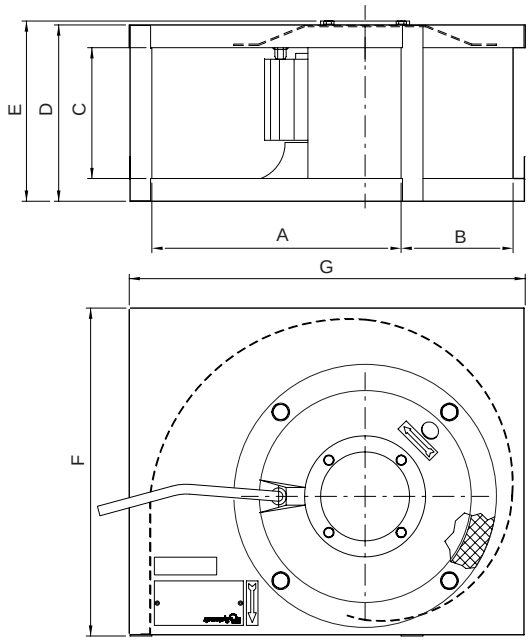


REV-ATEX
Switching device
Page 510

Quick selection



Dimensions



DKEX	A	B	C	D	E	F	G
225-4	280	133	145	196	196	367	445
250-4	315	154	165	216	243	410	492
280-4	357	169	180	230	248	453	547
315-4	400	188	203	254	276	515	615
355-6	450	213	227	278	320	574	689

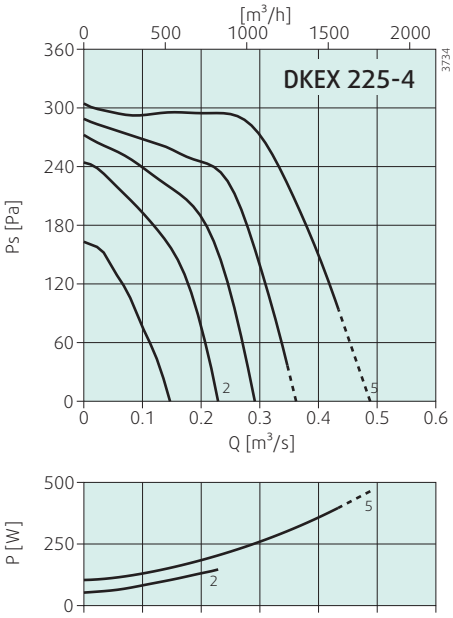
Technical data

DKEX		DKEX 225-4	DKEX 250-4	DKEX 280-4	DKEX 315-4	DKEX 355-6
Art. no.		*19962*	*19964*	*19966*	*19967*	*19968*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	490	900	1300	2100	1800
Current	A	0.85	1.8	2.2	3.9	3.7
Max. airflow	m^3/h	1570	2365	2794	3726	5004
Fan impeller speed	r.p.m.	1305	1355	1330	1380	840
Min. static back pressure	Pa	90	145	280	250	-
Temperature range, ambient and duct	°C	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	53.7	58.9	60.8	63.9	58.3
Weight	kg	12.5	17.5	24.5	35.3	40
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	44	44	44	44	44
Motor protection		U-EK230E	U-EK230E	U-EK230E	U-EK230E	U-EK230E
Certificate		SP 12ATEX3165X	SP 12ATEX3165X	SP 12ATEX3165X	SP 12ATEX3165X	SP 12ATEX3165X
Explosion proof		II 2G Ex e IIB+H2 T3 Gb				
Speed control, five-step [1]	Transf.	RTRD 2 *	RTRD 4 *	RTRD 4 *	RTRD 7 *	RTRD 4 *
Speed control, five-step high/low [1]	Transf.	RTRDU 2 *	RTRDU 4 *	RTRDU 4 *	RTRDU 7 *	RTRDU 4 *

* Only on combination with U-EK230E EX
[1] Systemair recommendation. More alternatives can be found on page 478.

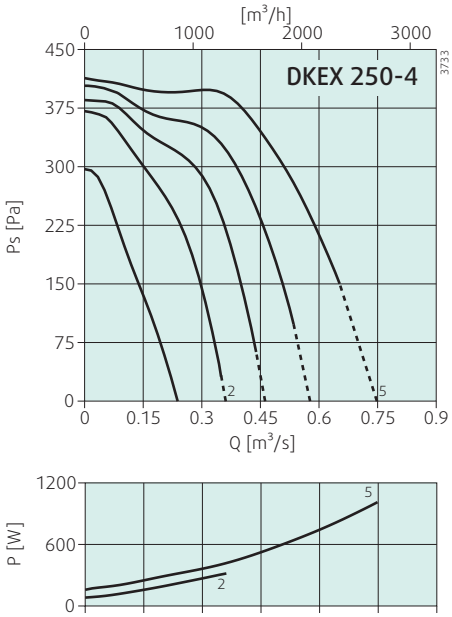


Performance



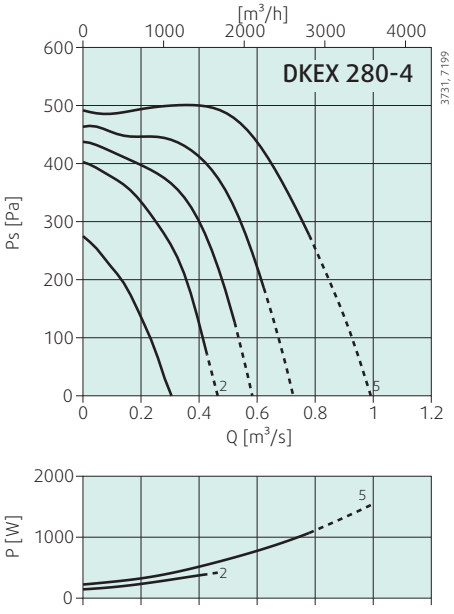
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	46	55	63	60	65	65	62	57
L_{wA} Outlet dB(A)	76	45	51	64	68	72	68	67	64
L_{wA} Surrounding dB(A)	61	35	44	54	53	56	54	48	44

Measurement point: 958 m³/h; 291 Pa



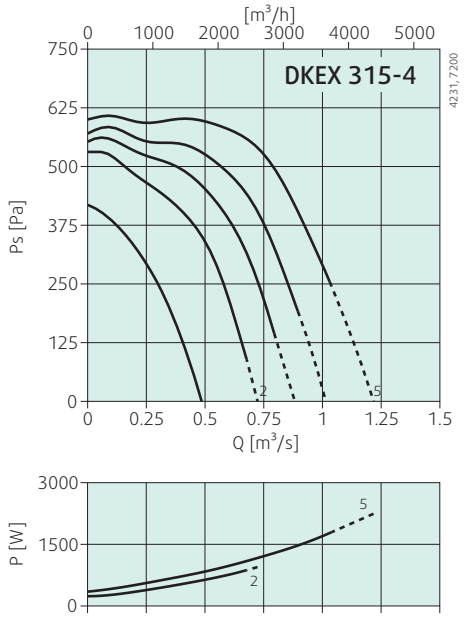
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	51	65	69	68	76	76	73	69
L_{wA} Outlet dB(A)	81	49	56	67	71	77	74	74	69
L_{wA} Surrounding dB(A)	70	42	46	60	58	67	63	60	52

Measurement point: 619 l/s; 192 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	51	63	66	65	72	71	68	64
L_{wA} Outlet dB(A)	79	49	57	67	71	73	72	71	66
L_{wA} Surrounding dB(A)	68	48	52	59	55	63	62	58	57

Measurement point: 1480 m³/h; 500 Pa

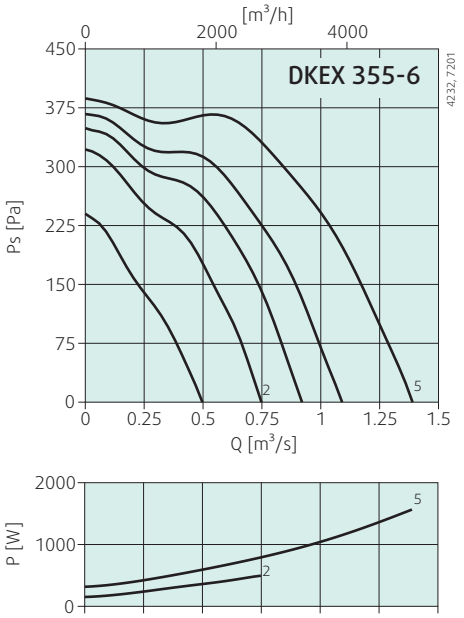


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	52	69	67	68	72	73	75	71
L_{wA} Outlet dB(A)	83	51	65	71	76	75	74	78	72
L_{wA} Surrounding dB(A)	71	48	52	58	59	65	64	66	60

Measurement point: 1831 m³/h; 595 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	49	62	62	67	68	68	71	66
L_{wA} Outlet dB(A)	78	47	60	65	71	70	69	74	68
L_{wA} Surrounding dB(A)	65	37	47	53	59	59	58	59	51

Messbedingungen: 2309 m³/h; 358 Pa

DVEX

Roof fan



- Certified according to the ATEX Directive 94/9/EC
- „Ex e" ignition protection type (increased safety)
- Motor protection via PTC thermistors
- Vertical discharge
- Incl. assembled FTG tilting device for the sizes 315 - 450

Accessories



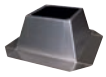
ASF
Inlet flange
Page 542



ASK
Connection box
Page 543



ASS-EX
Flex. connection
Page 564



FDS / FDS-L
Flat roof socket
Page 546



FTG
Tilting device
Page 543



SSD
Socket silencer
Page 547



TDA DV
Adapter
Page 543



VKS-EX
Back draft damper
Page 553

Electrical accessories



Ex e
Terminal box
Page 511



R-DK4 KT
Transformer
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RTRD
Speed control
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U-EK230E
Motor protection
Page 502



REV-ATEX
Switching device
Page 510



RTRDU
Speed control
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Casing
The casing casing is manufactured from sea water resistant aluminium. The base frame is manufactured from galvanised steel and the inlet cone from copper. A powder coated bird guard manufactured from galvanised steel is integrated in the casing.

Motor
Voltage controllable external rotor motors with flying leads.

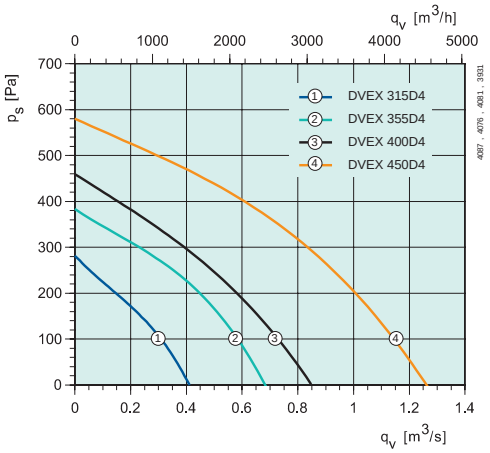
Impeller geometry
Radial impeller with backward curved blades manufactured from galvanised steel.

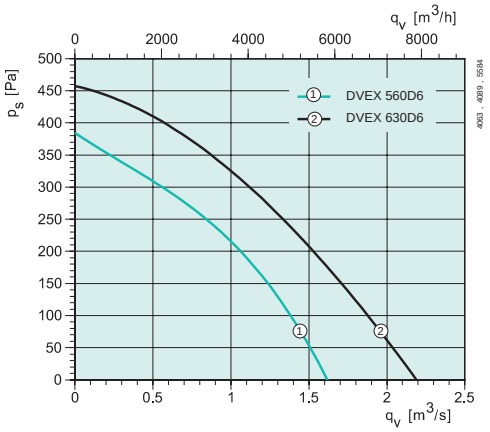
Output control
Speed controllable via a 5-step transformer.

Motor protection
Motor protection via integrated PTC thermistors, to be combined with a motor protection device.

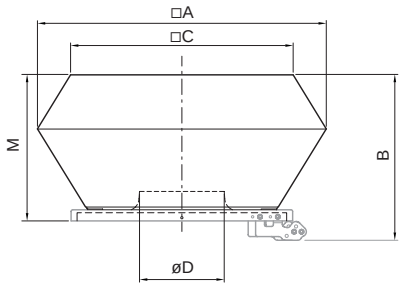
Classification in accordance with ATEX 94/9/EU
The fans can be used for temperature classes T1, T2 and T3. Exhaust of potentially explosive gases in Zone 1 and Zone 2 as well as Groups IIA and IIB is also possible.

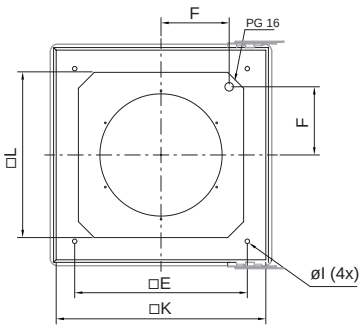
Quick selection





Dimensions





DVEX	□A	B	□C	øD	□E	F	øI	□K	□L	M
DVEX 315	560	382	470	192	330	146	12	406	304	330
DVEX 355	720	442	618	226	450	199	12	566	466	390
DVEX 400	720	442	618	255	450	199	12	566	466	390
DVEX 450	900	517	730	289	535	237	12	636	490	465
DVEX 560	1150	–	955	364	750	293	12	939	–	560
DVEX 630	1150	–	955	410	750	293	12	939	–	560

Technical data

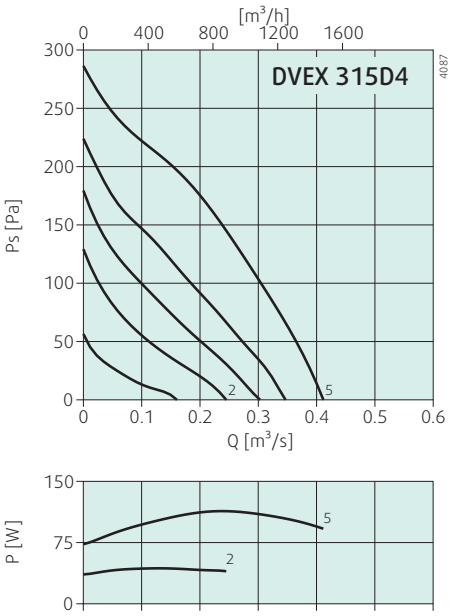
DVEX		DVEX 315D4	DVEX 355D4	DVEX 400D4
Art. no.		*32813*	*32814*	*32815*
Voltage	V	400	400	400
Motor circuit connection		Y	Y	Y
Frequency	Hz	50	50	50
Phase	~	3	3	3
Input power (P1)	W	120	260	390
Current	A	0.23	0.81/0.47	1.31/0.76
Max. airflow	m^3/h	1480	2480	3050
Fan impeller speed	r.p.m.	1340	1340	1350
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40
Sound pressure level at 4 m (free field)	dB(A)	44.4	49	53.6
Sound pressure level at 10 m (free field)	dB(A)	36.4	41	45.6
Weight	kg	15.5	28	29
Insulation class		F	F	F
Enclosure class, motor	IP	44	44	44
Motor protection		U-EK230E	U-EK230E	U-EK230E
Certificate		SP 07ATEX3129X	SP 07ATEX3130X	SP 07ATEX3131X
Explosion proof		II 2G c Ex e IIB T3		
Speed control, five-step [1]	Transf.	RTRD 2 *	RTRD 2 *	RTRD 2 *
Speed control, five-step high/low [1]	Transf.	RTRDU 2 *	RTRDU 2 *	RTRDU 2 *

DVEX		DVEX 450D4	DVEX 560D6	DVEX 630D6
Art. no.		*32816*	*32818*	*32819*
Voltage	V	400	400	400
Motor circuit connection		Y	Y	Y
Frequency	Hz	50	50	50
Phase	~	3	3	3
Input power (P1)	W	720	620	1070
Current	A	2.46/1.42	2.13/1.23	3.72/2.15
Max. airflow	m^3/h	4550	5820	7925
Fan impeller speed	r.p.m.	1360	900	880
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40
Sound pressure level at 4 m (free field)	dB(A)	57	52.1	54.5
Sound pressure level at 10 m (free field)	dB(A)	49	44.1	46.5
Weight	kg	40	62	78
Insulation class		F	F	F
Enclosure class, motor	IP	44	44	44
Motor protection		U-EK230E	U-EK230E	U-EK230E
Certificate		SP 07ATEX3132X	SP 07ATEX3134X	SP 07ATEX3135X
Explosion proof		II 2G c Ex e IIB T3		
Speed control, five-step [1]	Transf.	RTRD 2 *	RTRD 2 *	RTRD 4 *
Speed control, five-step high/low [1]	Transf.	RTRDU 2 *	RTRDU 2 *	RTRDU 4 *

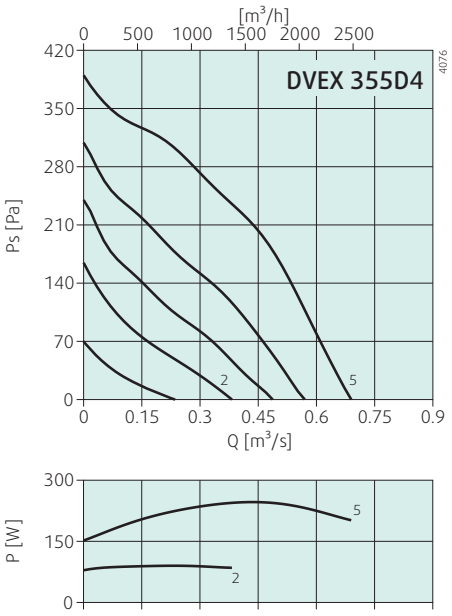
* Only on combination with U-EK230E EX

[1] Systemair recommendation. More alternatives can be found on page 478.

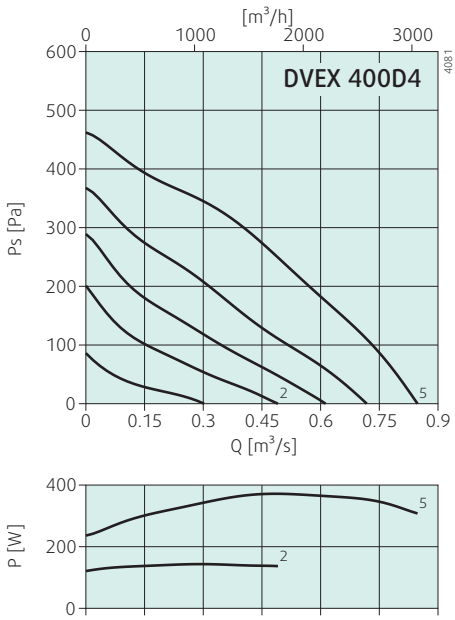
Performance



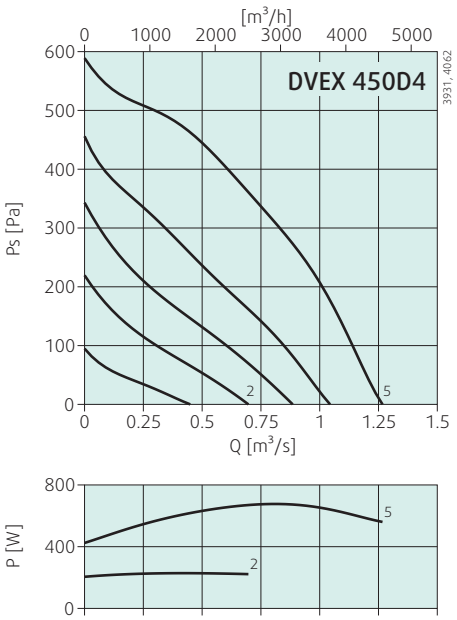
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	66	47	52	56	62	58	59	49	38
LwA Outlet dB(A)	70	47	53	56	65	65	65	52	42
Measurement point: 345 l/s; 67.5 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	69	47	54	60	64	62	61	54	45
LwA Outlet dB(A)	74	48	55	64	68	69	66	56	49
Measurement point: 615 l/s; 64.9 Pa									

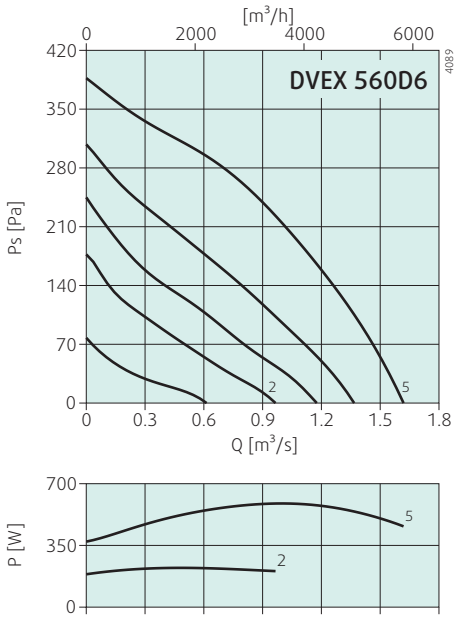


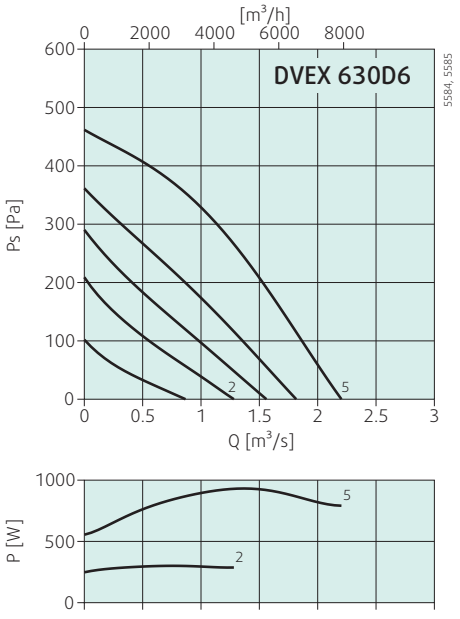
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	73	55	61	66	69	66	64	57	47
LwA Outlet dB(A)	78	54	61	69	73	73	69	61	51
Measurement point: 669 l/s; 141 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	77	56	66	71	73	69	68	60	51
LwA Outlet dB(A)	81	56	69	74	76	77	72	63	53
Measurement point: 992 l/s; 213 Pa									

Performance





Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	72	57	60	68	65	65	62	55	53
LwA Outlet dB(A)	77	57	62	70	72	71	66	60	66
Measurement point: 1324 l/s; 120 Pa									

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	74	54	65	70	67	65	62	60	54
LwA Outlet dB(A)	78	53	66	72	74	72	66	65	57
Measurement point: 1602 l/s; 179 Pa									

DVV-EX

Roof fan



- Tested according to the ATEX Directive 94/9/EC
- Pre-mounted Ex terminal box
- IEC-Ex d standard motor
- Motor protection via PTC thermistors
- Sound absorbing hood available as an accessory

Casing
The casing is manufactured from sea water resistant aluminium. The base frame is manufactured from galvanised steel and the inlet cone from copper. A powder coated bird guard manufactured from galvanised steel is integrated in the casing.

Motor
Frequency converter controllable IEC-Ex d standard motors.

Impeller geometry
Radial impeller with backward curved blades manufactured from galvanised steel.

Output control
Speed controllable via frequency converter.

Motor protection
Motor protection via integrated PTC thermistors, to be combined with a motor protection device.

Classification in accordance with ATEX 94/9/EC
The fans can be used for temperature classes T1 to T4. Exhaust of potentially explosive gases in Zone 1 and Zone 2, as well as Groups IIA and IIB, is possible. Applications for hydrogen is also possible (on request).

You can find more information in our online catalogue on www.systemair.com

Accessories



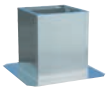
ASFV
Inlet flange
Page 555



ASSV-EX
Flex. connection
Page 554



FDG-EX
Flat roof socket
Page 547



SSG-EX
Roof socket silencer
Page 549



VKG-EX
Automatic shutte
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HSDV
Silencer
Page 552

Electrical accessories



U-EK230E
Motor protection
Page 502



FRQ
Frequency inverter
Page 490

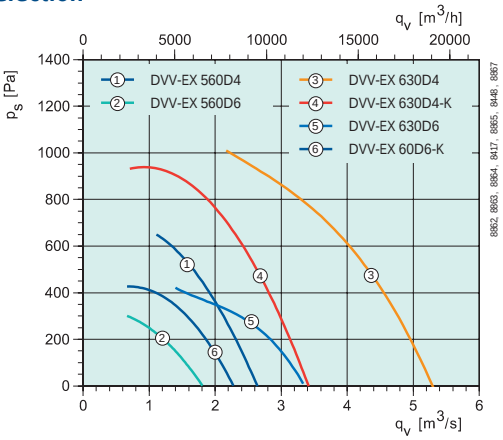


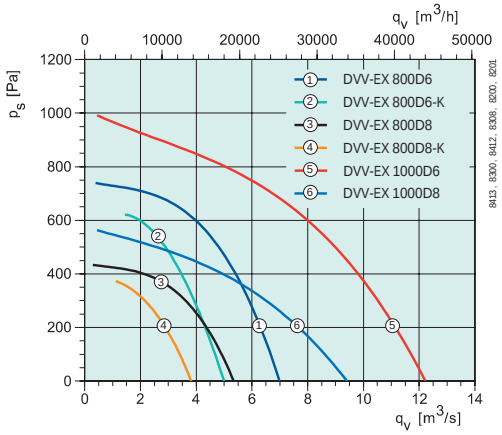
FC102
Frequency inverter
Page 492



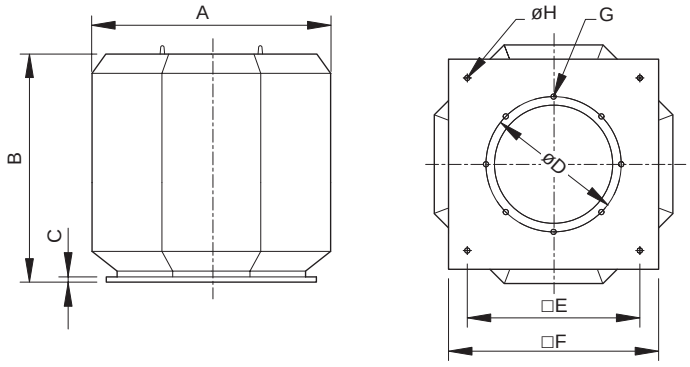
REV-ATEX
Switching device
Page 510

Quick selection





Dimensions



DVV-EX	A	B	C	øD	□E	□F	G	øH
560D4	808	750	20	438	600	706	12XM8	14
630D4/D4-K/D6/D6-K	1100	958	40	541	880	990	12XM8	18
800D6/D6-K/D8/D8-K	1272	1175	40	674	880	990	16xM10	18
1000D6/D8	1500	1350	70	751	1040	1154	16xM10	18

Technical data

DVV-EX		DVV-EX 560D4-XS	DVV-EX 560D4-XL	DVV-EX 560D6-XS	DVV-EX 560D6-XL	DVV-EX 560D4-XM	DVV-EX 630D4-XL
Art. no.		*95416*	*95417*	*95418*	*95419*	*95433*	*95420*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input Power (P1)	W	1349	851	521	851	1850	5667
Current	A	2.4	1.8	1.5	1.8	3.4	9.9
Starting current	A	11.5	7.8	7.8	7.8	17.7	55.1
Max. airflow	m^3/h	7900	7100	5350	7100	10200	19345
Fan impeller speed	r.p.m.	1415	947	915	947	1419	1448
Temperature range, ambient and duct	°C	-20...40	-20...40	-20...40	-20...40	-20...40	-20...40
Sound pressure level at 4 m (free field)	dB(A)	66	59	56	59	68	75
Sound pressure level at 10 m (free field)	dB(A)	59	52	49	52	61	69
Weight	kg	103	103	103	103	106	183
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		SIQ 14 ATEX 143X					
Explosion proof		II 2G c Ex d IIB T4					

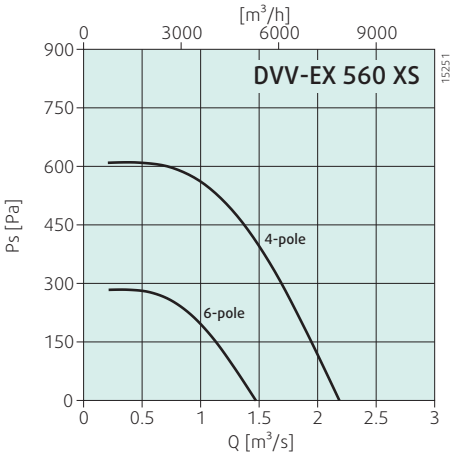
DVV-EX		DVV-EX 630D6-XL	DVV-EX 630D4-XS	DVV-EX 630D6-XS	DVV-EX 630D4-XM	DVV-EX 800D6-XS	VV-EX 800D8-XS
Art. no.		*95421*	*95422*	*95423*	*95424*	*95425*	*95426*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input Power (P1)	W	1842	3773	1193	4507	3377	1491
Current	A	3.6	6.6	2.6	8.0	6.5	3.57
Starting current	A	-	32.5	-	50.6	41.6	17.8
Max. airflow	m^3/h	12780	15000	9900	17000	19370	14500
Fan impeller speed	r.p.m.	946	1424	950	1444	966	718
Temperature range, ambient and duct	°C	-20...40	-20...40	-20...40	-20...40	-20...40	-20...40
Sound pressure level at 4 m (free field)	dB(A)	64	71	61	73	66	59
Sound pressure level at 10 m (free field)	dB(A)	58	63	53	66	60	53
Weight	kg	145	145	134	159	260	236
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		SIQ 14 ATEX 143X					
Explosion proof		II 2G c Ex d IIB T4					

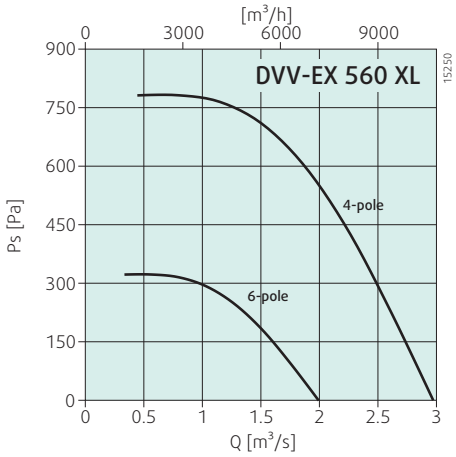
Technical data

DVV-EX		DVV-EX 800D6-XL	DVV-EX 800D8-XL	DVV-EX 1000D6-XL	DVV-EX 1000D8-XL	DVV-EX 1000D6-XM	DVV-EX 1000D8-XM
Art. no.		*95427*	*95428*	*95429*	*95430*	*95431*	*95432*
Voltage	V	400	400	400	400	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input Power (P1)	W	5141	2221	10368	4594	5860	2517
Current	A	9.9	4.7	18.7	9.0	12.1	6.7
Starting current	A	72.0	23.7	-	48.0	106.0	48.0
Max. airflow	m^3/h	25400	18800	45000	34000	30600	23000
Fan impeller speed	r.p.m.	966	717	964	727	980	741
Temperature range, ambient and duct	°C	-20...40	-20...40	-20...40	-20...40	-20...40	-20...40
Sound pressure level at 4 m (free field)	dB(A)	71	65	74	66	73	65
Sound pressure level at 10 m (free field)	dB(A)	64	57	66	58	65	57
Weight	kg	274	257	405	369	379	364
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		SIQ 06 ATEX 236X(№PPC 00-31780)					
Explosion proof		II 2G c Ex d IIB T4					



Performance

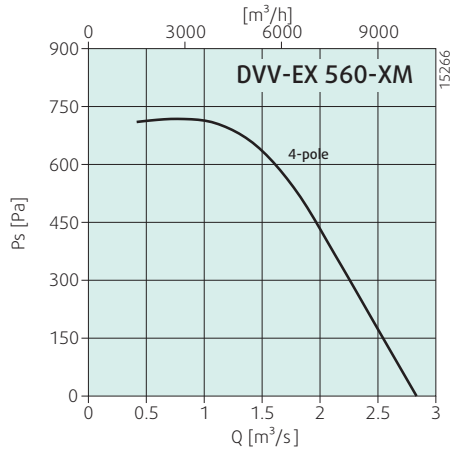




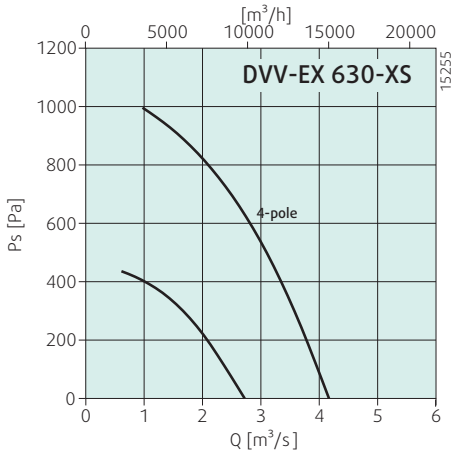
Type	Tot	Frequency bands [Hz]							
DVV-EX 560D4 XS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	46	75	75	74	74	76	74	66
L_{wA} Surrounding dB(A)	84	56	66	74	78	78	79	75	67
Measurement point: qv = 1,9 m^3/s, Ps = 160 Pa									
DVV-EX 560D6 XS									
L_{wA} Inlet dB(A)	73	36	65	65	64	64	66	64	56
L_{wA} Surrounding dB(A)	74	46	56	64	68	68	69	65	57
Measurement point: qv = 1,3 m^3/s, Ps = 75 Pa									

Type	Tot	Frequency bands [Hz]							
DVV-EX 560D4 XL		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	97	68	79	91	90	92	87	81	72
L_{wA} Surrounding dB(A)	98	68	87	88	91	91	91	89	79
Measurement point: qv = 4,66 m^3/s, Ps = 375 Pa									
DVV-EX 560D6 XL									
L_{wA} Inlet dB(A)	80	50	72	73	73	72	73	64	57
L_{wA} Surrounding dB(A)	80	56	70	73	74	75	69	55	44
Measurement point: qv = 1,65 m^3/s, Ps = 122 Pa									

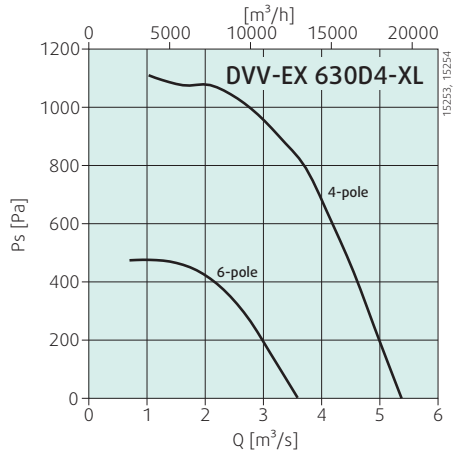
Performance



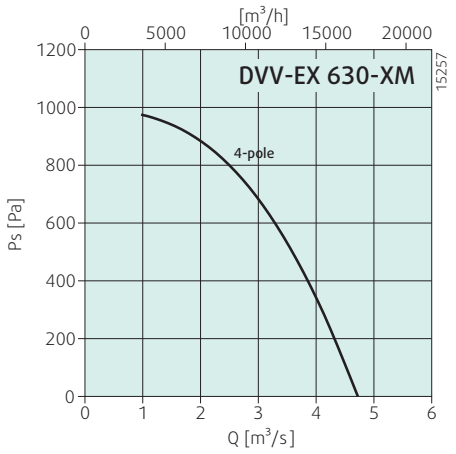
Type	Tot	Frequency bands [Hz]							
DVV-EX 560D4 XM		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	49	78	78	77	77	79	77	69
L_{wA} Surrounding dB(A)	87	59	69	77	81	81	82	78	70
Measurement point: qv = 2,3 m³/s, Ps = 290 Pa									



Type	Tot	Frequency bands [Hz]							
DVV-EX 630D4 XS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	65	77	85	86	85	83	80	72
L_{wA} Surrounding dB(A)	94	67	79	87	88	87	85	82	74
Measurement point: qv = 3,11 m³/s, Ps = 495 Pa									
DVV-EX 630D6 XS									
L_{wA} Inlet dB(A)	82	58	69	71	78	73	72	68	55
L_{wA} Surrounding dB(A)	84	60	71	73	80	75	74	70	57
Measurement point: qv = 1,38 m³/s, Ps = 350 Pa									

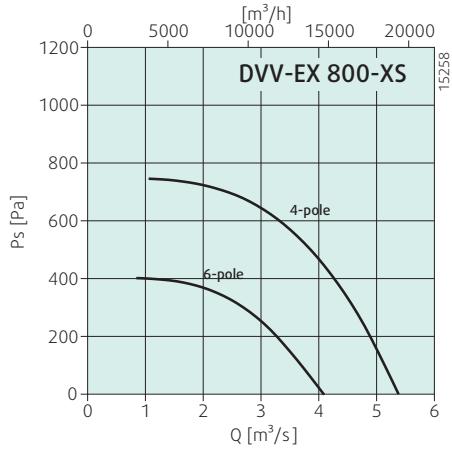


Type	Tot	Frequency bands [Hz]							
DVV-EX 630D4 XL		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	97	68	79	91	90	92	87	81	72
L_{wA} Surrounding dB(A)	98	68	87	88	91	91	91	89	79
Measurement point: qv = 4,66 m³/s, Ps = 375 Pa									
DVV-EX 630D6 XL									
L_{wA} Inlet dB(A)	87	64	73	79	83	78	76	74	62
L_{wA} Surrounding dB(A)	88	65	74	80	84	79	77	75	63
Measurement point: qv = 2,47 m³/s, Ps = 333 Pa									

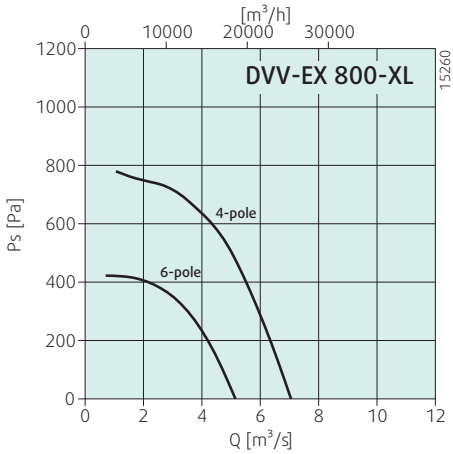


Type	Tot	Frequency bands [Hz]							
DVV-EX 630D4 XM		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	57	86	86	85	85	87	85	77
L_{wA} Surrounding dB(A)	96	68	78	86	90	90	91	87	79
Measurement point: qv = 3,3 m³/s, Ps = 600 Pa									

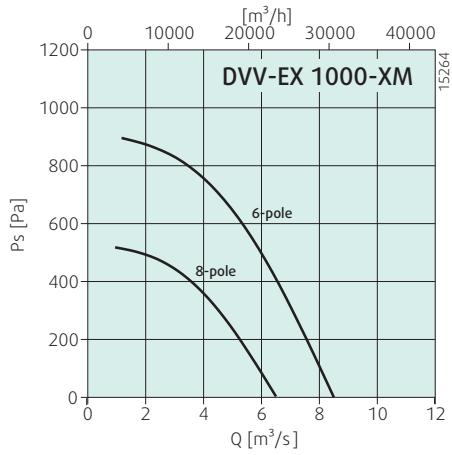
Performance



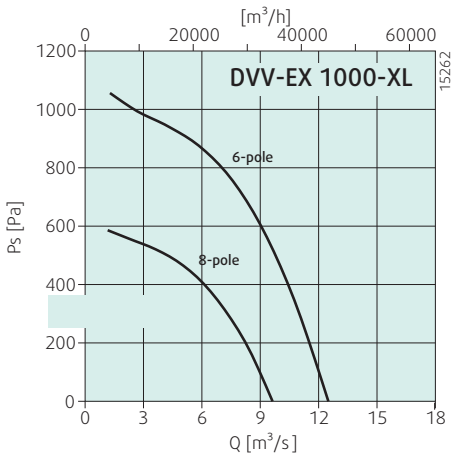
Type	Tot	Frequency bands [Hz]							
DVV-EX 800D6 XS		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	84	60	71	73	80	75	74	70	57
L_{wA} Surrounding dB(A)	86	62	73	75	82	77	76	72	59
Measurement point: qv = 4,45 m³/s, Ps = 350 Pa									
DVV-EX 800D8 XS									
L_{wA} Inlet dB(A)	78	61	67	69	73	71	71	63	52
L_{wA} Surrounding dB(A)	80	63	69	71	75	73	73	65	54
Measurement point: qv = 3,25 m³/s, Ps = 190 Pa									



Type	Tot	Frequency bands [Hz]							
DVV-EX 800D6 XL		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	91	67	78	80	87	82	81	77	64
L_{wA} Surrounding dB(A)	93	69	80	82	89	84	83	79	66
Measurement point: qv = 5,77 m³/s, Ps = 340 Pa									
DVV-EX 800D8 XL									
L_{wA} Inlet dB(A)	85	68	74	76	80	78	78	70	59
L_{wA} Surrounding dB(A)	87	70	76	78	82	80	80	72	61
Measurement point: qv = 4,32 m³/s, Ps = 195 Pa									



Type	Tot	Frequency bands [Hz]							
DVV-EX 1000D6 XM		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	75	81	83	87	85	85	80	69
L_{wA} Surrounding dB(A)	95	78	84	86	90	88	88	83	72
Measurement point: qv = 4,8 m³/s, Ps = 670 Pa									
DVV-EX 1000D8 XM									
L_{wA} Inlet dB(A)	84	66	72	75	79	76	76	71	60
L_{wA} Surrounding dB(A)	85	67	73	76	80	77	77	72	61
Measurement point: qv = 3,1 m³/s, Ps = 425 Pa									



Type	Tot	Frequency bands [Hz]							
DVV-EX 1000D6 XL		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	69	78	84	88	83	81	79	67
L_{wA} Surrounding dB(A)	94	71	80	86	90	85	83	81	69
Measurement point: qv = 6,94 m³/s, Ps = 650 Pa									
DVV-EX 1000D8 XL									
L_{wA} Inlet dB(A)	84	66	72	75	79	76	76	71	60
L_{wA} Surrounding dB(A)	86	68	74	77	81	78	78	73	62
Measurement point: qv = 6,05 m³/s, Ps = 390 Pa									



Reference: Emiraes Pearl Tower, Hotel, Abu Dhabi

AW-EX

Axial fan



- Certified according to the ATEX Directive 94/9/EC
- „Ex e" ignition protection type (increased safety)
- 2-stage operation possible via star-delta switching
- Motor protection via PTC thermistors
- With square wall plate for simple easy wall mounting

Casing
Square wall plate made from galvanised sheet steel, black powder coated. Includes protection guard on the intake side.

Motor
Voltage controllable external rotor motors with cable.

Impeller geometry
Free running axial impeller made from galvanised sheet steel, black powder coated.

Output control
Speed controllable via voltage reduction using a transformer, 2-stage operation also possible via star-delta switching.

Motor protection
Motor protection via integrated PTC thermistors, combined with a connected motor protection device.

The fans can be used for the temperature classes T1 to T3 classification in accordance with ATEX 94/9/EC, as well as T4 for the AW 355 and AW 420. Exhaust of potentially explosive gases in Zone 1 and Zone 2 as well as Groups IIA and IIB is also possible.

You can find more information in our online catalogue on www.systemair.com

Electrical accessories



Ex e
Terminal box
Page 511



RTRDU
Speed control
Page 486



RTRD
Speed control
Page 485

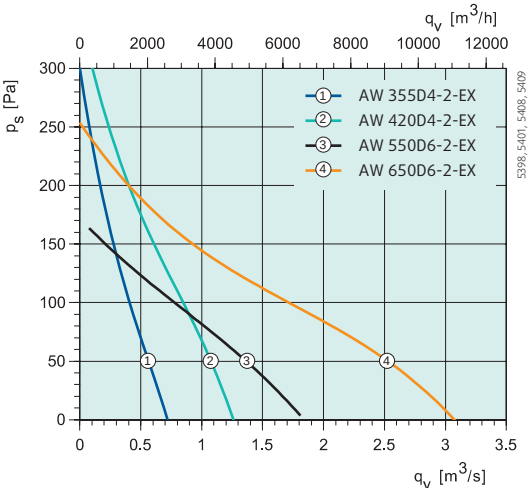


U-EK230E
Motor protection
Page 502

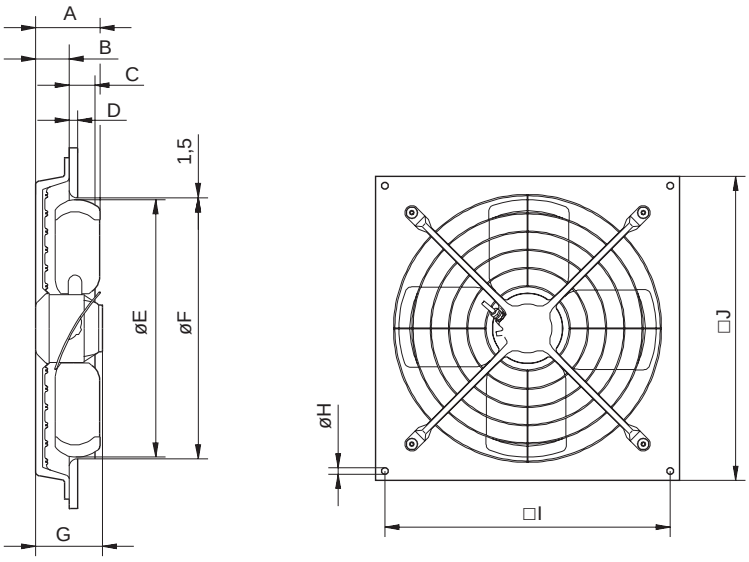


REV-ATEX
Switching device
Page 510

Quick selection



Dimensions



AW-EX	A	B	C	D	øE	øF	G	øH	□I	□J
355 D4-2-EX	138	48	70	16	350.5	356	125	12	385	423
420 D4-2-EX	138	71	70	16	419	426	125	14.5	460	503
550 D6-2-EX	138	72	55	18	551	558	143	14.5	610	650
650 D6-2-EX	162	66	78	18	651	658	161	14.5	730	770

Technical data

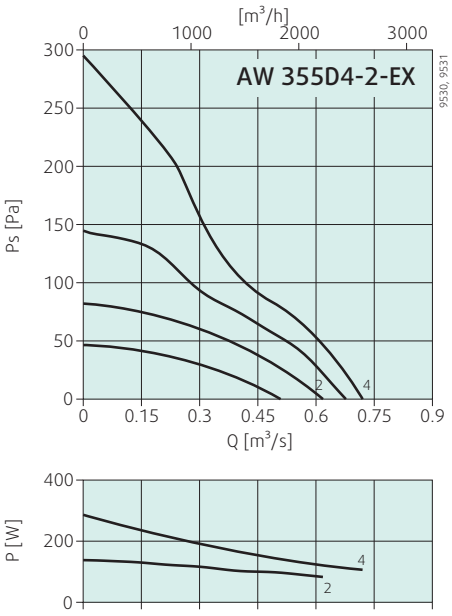
AW-EX		AW 355 D4-2 EX	AW 420D4-2-EX	AW 550D6-2-EX	AW 650D6-2-EX
Art. no.		*5969*	*5970*	*5971*	*5972*
Voltage	V	400	400	400	400
Frequency	Hz	50	50	50	50
Phase	~	3	3	3	3
Input power (P1)	W	286	536	579	1077
Current	A	0.493	0.943	1.15	1.78
Max. airflow	m^3/h	2592	4662	6628	10940
Fan impeller speed	r.p.m.	1341	1269	697	790
Max. temperature of transported air	°C	40	40	40	40
* when voltage-controlled	°C	40	40	40	40
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	61.7	69.2	67.2	71.7
Weight	kg	9	10	13	20
Insulation class		F	F	F	F
Enclosure class, motor	IP	44	44	44	44
Certificate			ZELM 05ATEX0279X		
Explosion proof		II 2G c Ex e IIB T4	II 2G c Ex e IIB T4	II 2G c Ex e IIB T3	II 2G c Ex e IIB T3
Speed control, five-step (1)	Transf.	RTRD 2 *	RTRD 2 *	RTRD 2 *	RTRD 2 *
Speed control, five-step high/low (1)	Transf.	RTRDU 2 *	RTRDU 2 *	RTRDU 2 *	RTRDU 2 *

* Only on combination with U-EK230E EX

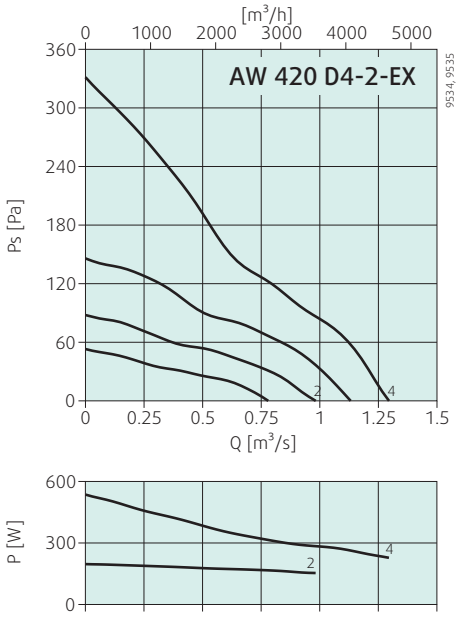
(1) Systemair recommendation. More alternatives can be found on page 478.



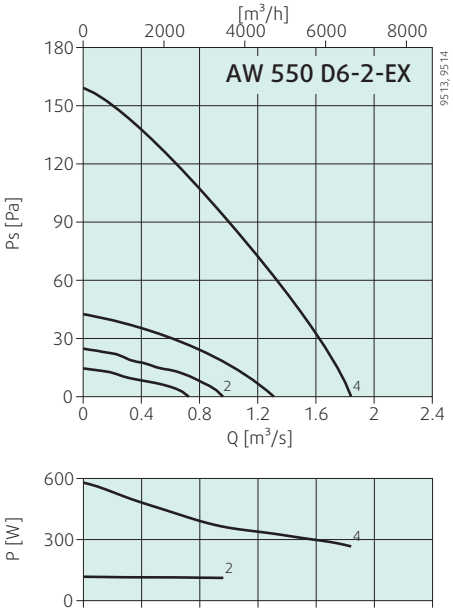
Performance



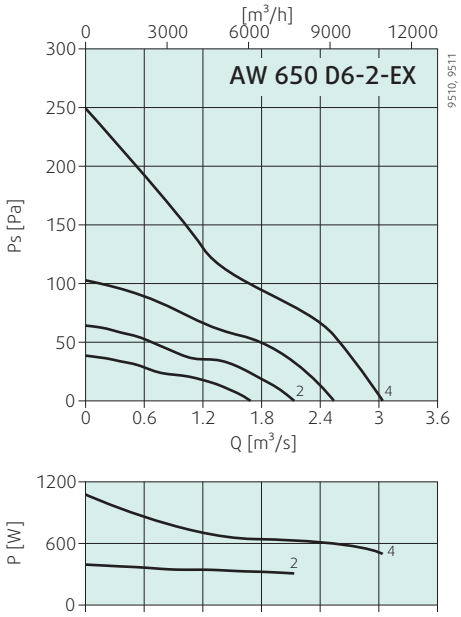
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	38	52	65	60	65	62	56	50
L_{wA} Outlet dB(A)	69	36	56	61	60	64	62	55	46
Measurement point: 2587 m³/h; 90 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	47	63	68	71	70	69	63	55
L_{wA} Outlet dB(A)	76	43	64	68	69	71	70	63	54
Measurement point: 4664 m³/h; 96 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	41	63	61	67	69	67	59	50
L_{wA} Outlet dB(A)	74	58	59	66	66	71	67	59	50
Measurement point: 6626 m³/h; 56 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	47	59	67	71	72	71	64	56
L_{wA} Outlet dB(A)	79	63	66	69	72	74	73	64	57
Measurement point: 10934 m³/h; 73 Pa									



Reference: Choren Industry, Freiberg, Germany

AXC-EX

Axial fan



- Aerodynamic impeller
- Inspection opening for checking to verify the direction of rotation
- External terminal box in Ex e
- Aluminium anti spark slip ring
- Motor protection via PTC thermistors
- Seamed Welded flanges compliant with Eurovent 1/2

Accessories



ESD-F
Inlet flange
Page 562



EV-EX
Flex. connection
Page 565



FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK-EX
Autom. shutter
Page 561

MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



SG AR/AXC
Protection guard
Page 557

Electrical accessories



U-EK230E
Motor protection
Page 502



FRQ
Frequency inverter
Page 490



REV-ATEX
Switching device
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Casing
Medium pressure axial fans with long casing manufactured from hot-dip galvanised steel, welded flanges compliant with Eurovent 1/2 and aluminium anti spark slip ring.

Motor
Frequency inverter controllable IEC-Ex d standard motor. Ex e terminal box on the fan casing.

Impeller geometry
Free running axial impeller. Hub and blades made from die-cast aluminium. The adjustable pitch enables flexible and precise adjustment of the airflow at to the individually required duty point.

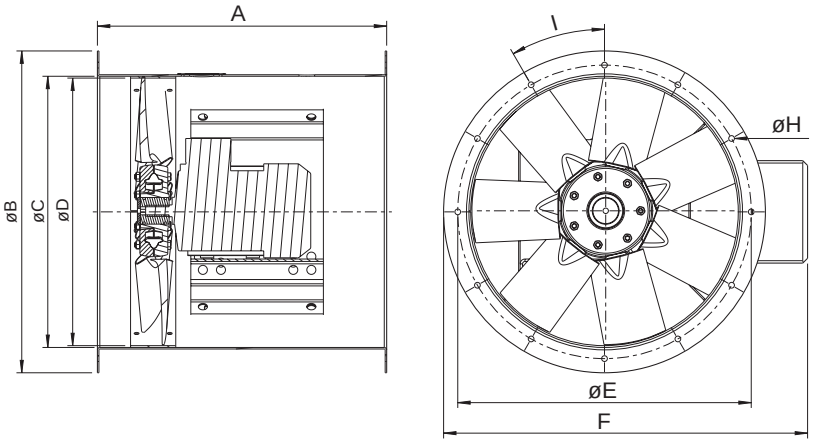
Output control
Speed controllable via frequency inverter.

Motor protection
Motor protection via integrated PTC thermistors, to be combined with a motor protection device.

Classification in accordance with ATEX 94/9/EC
The fans can be used for temperature classes T1 to T4. Exhaust of potentially explosive gases in Zone 1 and Zone 2 as well as Groups IIA, IIB and IIC is possible.

You can find more information in our online catalogue on www.systemair.com

Dimensions



AXC-EX	A	ø B	ø C	ø D	ø E	F	ø H	W
AXC-EX 355	375	435	355	343	395	500	10	8 x 45°
AXC-EX 400	450	480	400	387	450	550	12	8 x 45°
AXC-EX 450	500	530	450	436	500	605	12	8 x 45°
AXC-EX 500	540	590	500	486	560	659	12	12 x 30°
AXC-EX 560	750	650	560	546	620	730	12	12 x 30°
AXC-EX 630	500	720	630	614	690	800	12	12 x 30°
AXC-EX 710	500	800	710	693	770	880	12	12 x 22.5°
AXC-EX 800	500	890	800	783	860	975	12	16 x 22.5°
AXC-EX 900	640	1005	900	875	970	1075	15	16 x 22.5°

Technical data

AXC-EX		355-7/32°-4	355-7/12°-4	400-7/32°-4	400-7/14°-4	450-7/24°-2	450-7/32°-4
Art. no.		*33007*	*35758*	*33008*	*35759*	*33001*	*33009*
Voltage	V	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	225	177	337	234	2532	473
Starting current	A	3.9	3.9	3.9	3.9	26.2	6.8
Current	A	0.837	1.797	0.845	0.8	4.81	1.16
Max. airflow	m^3/h	3312	1372	4615	2354	10130	6476
Fan impeller speed	r.p.m.	1471	1488	1461	1476	2924	1441
Temperature range, ambient and duct	°C	-20...40	-20...40	-20...40	-20...40	-20...40	-20...40
Weight	kg	40	30	75	34	63	55
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		Sira 07ATEX6341X					
Explosion proof		II 2G c Ex d IIC T4					

AXC-EX		450-7/17°-2	450-7/28°-2	450-7/14°-4	500-9/16°-2	500-9/22°-4	500-9/26°-2
Art. no.		*35760*	*35761*	*35762*	*33002*	*33010*	*33003*
Voltage	V	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	1400	2757	225	3396	546	4753
Starting current	A	19.8	35.1	6.8	35.1	6.8	64.8
Current	A	2.44	5.52	0.894	5.61	1.21	7.87
Max. airflow	m^3/h	7614	11365	3301	9994	6314	14519
Fan impeller speed	r.p.m.	2911	2934	1481	2905	1428	2945
Temperature range, ambient and duct	°C	-20...40	-20...40	-20...40	-20...40	-20...+40	-20...+40
Weight	kg	62	77	62	82	65	130
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		Sira 07ATEX6341X					
Explosion proof		II 2G c Ex d IIC T4					

Technical data

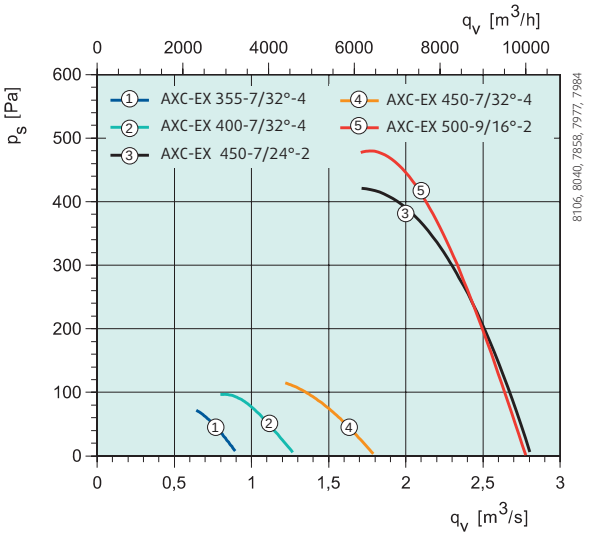
AXC-EX		500-9/28°-4	500-9/36°-2	560-9/18°-2	560-9/24°-2	560-9/20°-4	560-9/26°-4
Art. no.		*33011*	*35763*	*33004*	*33005*	*33012*	*33013*
Voltage	V	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	662	7323	5502	6977	779	1088
Starting current	A	8.4	96	64.8	96	8.4	11.6
Current	A	1.55	11.8	8.76	11.5	1.68	2.04
Max. airflow	m^3/h	8032	18616	16254	19534	8860	11434
Fan impeller speed	r.p.m.	1439	2934	2932	2944	1428	1434
Temperature range, ambient and duct	°C	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40
Weight	kg	65	135	155	155	90	93
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		Sira 07ATEX6341X					
Explosion proof		II 2G c Ex d IIC T4					

AXC-EX		560-9/30°-2	630-9/16°-2	630-9/18°-4	630-9/30°-4	630-9/20°-2	710-9/30°-4
Art. no.		*35764* *	*33006*	*33014*	*33015*	*35765* *	*33016*
Voltage	V	415	415	415	415	415	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	7441	7862	1156	2181	9132	3360
Starting current	A	140	96	11.6	32.6	140	51.5
Current	A	14.8	12.6	2.15	4.69	17.4	6.03
Max. airflow	m^3/h	23857	22230	12395	18500	25672	24102
Fan impeller speed	r.p.m.	2972	2936	1429	1465	2970	1457
Temperature range, ambient and duct	°C	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40
Weight	kg	167	155	95	105	169	130
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		Sira 07ATEX6341X					
Explosion proof		II 2G c Ex d IIC T4					

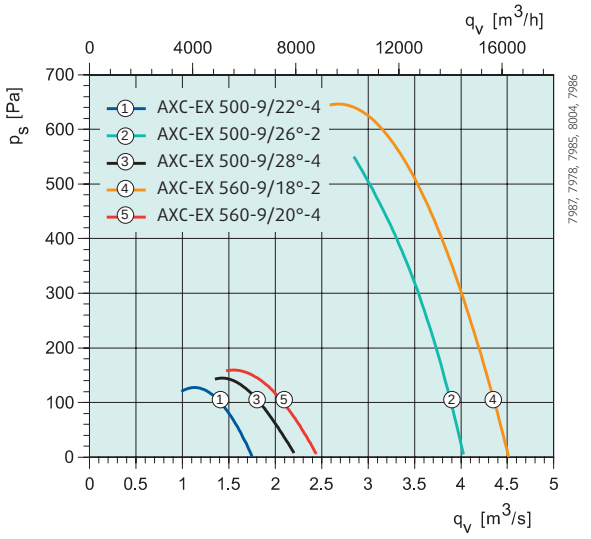
AXC-EX		710-9/26°-4	800-9/18°-4	800-9/28°-4	900-10/18°-4	900-10/26°-4	900-10/30°-4
Art. no.		*35766*	*33017*	*33018* *	*33019*	*33020*	*35767*
Voltage	V	415	415	415	415	415	415
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	3
Input power (P1)	W	3101	2716	5339	6212	11964	12052
Starting current	A	23.1	51.5	92	92	143	223
Current	A	5.31	5.27	11.8	12.5	16.7	22.4
Max. airflow	m^3/h	22529	23638	32774	36000	44568	52070
Fan impeller speed	r.p.m.	1398	1467	1480	1476	1479	1478
Temperature range, ambient and duct	°C	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40	-20...+40
Weight	kg	106	130	158	255	330	316
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55	55
Certificate		Sira 07ATEX6341X					
Explosion proof		II 2G c Ex d IIC T4					

* not FU controllable

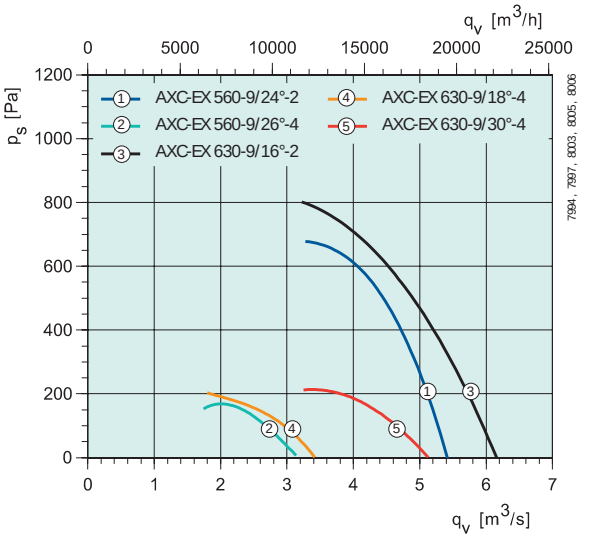
Quick selection



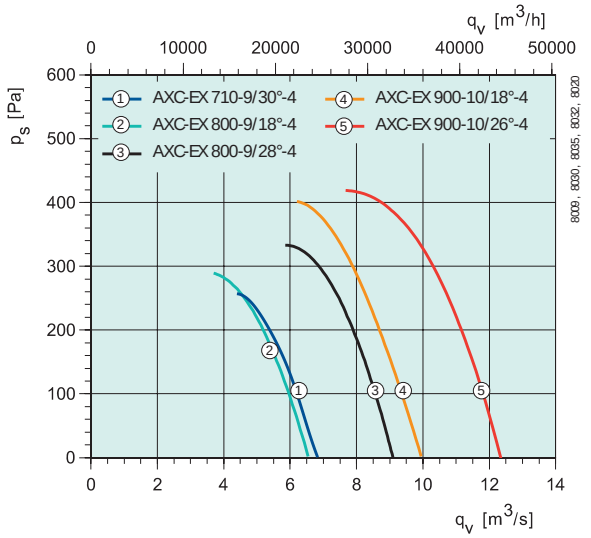
Type	Tot	Frequency bands [Hz]							
L_{wA} Einlass/Austritt		63	125	250	500	1k	2k	4k	8k
AXC-EX									
355-7/32°-4	74	69	68	69	68	67	64	59	53
400-7/32°-4	77	72	71	72	71	70	67	62	56
450-7/24°-2	96	91	86	89	91	88	88	84	78
450-7/32°-4	82	77	76	77	76	75	72	67	61
500-9/16°-2	100	95	90	93	95	93	92	88	82



Type	Tot	Frequency bands [Hz]							
L_{wA} Einlass/Austritt		63	125	250	500	1k	2k	4k	8k
AXC-EX									
500-9/22°-4	86	81	80	81	80	79	76	71	65
500-9/26°-2	102	97	92	95	97	95	94	90	84
500-9/28°-4	87	82	81	82	81	80	77	72	66
560-9/18°-2	106	101	96	99	101	99	98	94	88
560-9/20°-4	91	86	85	86	85	84	81	76	70



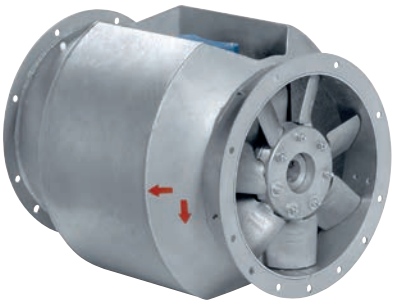
Type	Tot	Frequency bands [Hz]							
L_{wA} Einlass/Austritt		63	125	250	500	1k	2k	4k	8k
AXC-EX									
560-9/24°-2	108	103	98	101	103	101	100	96	90
560-9/26°-4	93	88	87	88	87	86	83	78	72
630-9/16°-2	111	106	101	104	106	104	103	99	93
630-9/18°-4	96	91	90	91	90	89	86	81	75
630-9/30°-4	99	94	93	94	93	92	89	84	78



Type	Tot	Frequency bands [Hz]							
L_{wA} Einlass/Austritt		63	125	250	500	1k	2k	4k	8k
AXC-EX									
710-9/30°-4	93	88	87	88	87	86	83	78	72
800-9/18°-4	97	92	91	92	91	90	87	82	76
800-9/28°-4	100	95	94	95	94	93	90	85	79
900-10/18°-4	101	91	89	95	96	94	91	86	80
900-10/26°-4	104	94	97	99	97	96	92	86	80

AXCBF-EX

Axial fan



- Aerodynamic impeller
- Dual-shaft housing made from hot-dip galvanised steel
- Aluminium anti spark slip ring
- Motor protection via PTC thermistors
- Welded flanges compliant with Eurovent 1/2

Casing
Medium pressure axial fans with bifurcated casing manufactured from hot-dip galvanised steel, welded flanges compliant with Eurovent 1/2 and aluminium anti spark slip ring.

Motor
Frequency inverter controllable IEC-Ex d standard motor with flying leads.

Impeller geometry
Free running axial impeller. Hub and blades manufactured from die-cast aluminium.

Output control
Speed controllable via frequency inverter.

Motor protection
Motor protection via integrated PTC thermistors, to be combined with a motor protection device.

Classification in accordance with ATEX 94/9/EC
The fans can be used for temperature classes T1 to T4. Exhaust of potentially explosive gases in Zone 1 and Zone 2 as well as Groups IIA, IIB and IIC is also possible.

You can find more information in our online catalogue on www.systemair.com

Accessories



EV-EX
Flex. connection
Page 565



FSD-AXC
Spring damper
Page 560



RSA(F)
Silencer
Page 556



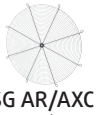
GFL-AR/AXC
Counterflange
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LRK-EX
Autom. shutter
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MFA-AR/AXC
Mounting feet
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SG AR/AXC
Protection guard
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Electrical accessories



Ex e
Terminal box
Page 511



U-EK230E
Motor protection
Page 502

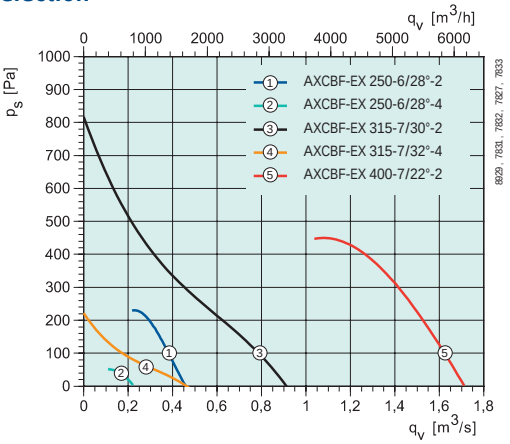


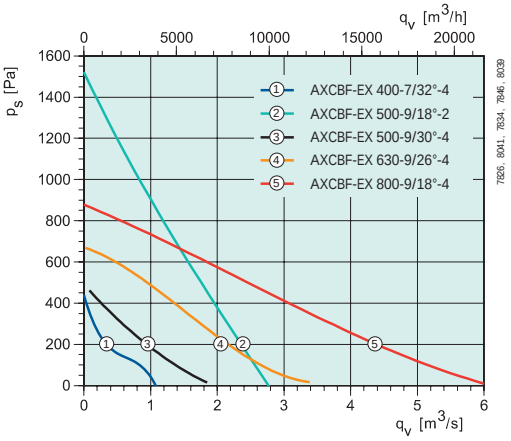
FRQ
Frequency inverter
Page 490



REV-ATEX
Switching device
Page 510

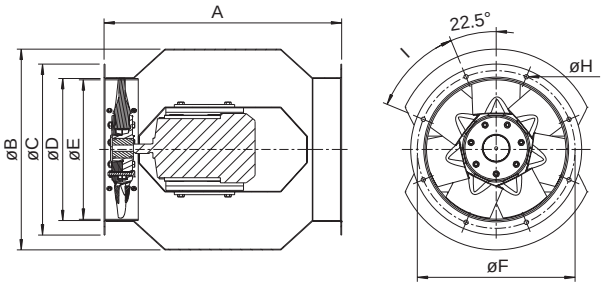
Quick selection



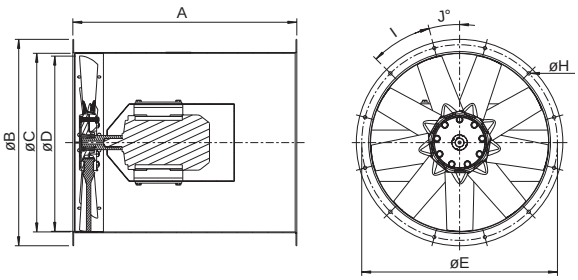


Dimensions

AXCBF-EX 250 - AXCBF-EX 500



AXCBF-EX 630 - AXCBF-EX 800



AXCBF-EX	A	ø B	ø C	ø D	ø E	ø F	ø H	I	J
AXCBF-EX 250	535	448	328	250	238	302	10	8 x 45°	-
AXCBF-EX 315	535	452	385	320	308	355	10	8 x 45°	-
AXCBF-EX 400	625	585	480	401	388	450	10	8 x 45°	-
AXCBF-EX 500	660	695	590	504	490	560	12	12 x 30°	15
AXCBF-EX 500	710	695	590	504	490	560	12	12 x 30°	15
AXCBF-EX 630	790	728	634	618	690	-	12	12 x 30°	15
AXCBF-EX 800	880	890	797	778	860	-	12	16 x 22.5°	11.25

Technical data

AXCBF-EX		250-6/28°-2	250-6/28°-4	315-7/30°-2	315-7/32°-4	400-7/22°-2
Art. no.		*33021*	*33025*	*33022*	*33026*	*33023*
Voltage	V	415	415	415	415	415
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	309	93.4	693	155	1911
Starting current	A	4.5	2.9	8.4	2.9	26.2
Current	A	0.79	0.563	1.43	0.609	3.16
Max. airflow	m^3/h	1667	810	3280	1652	6160
Fan impeller speed	r.p.m.	2916	1487	2885	1476	2918
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40	-20..40	-20..40
Weight	kg	34.1	30	45.5	38.6	64
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55
Certificate				Sira 07ATEX6341X		
Explosion proof				II 2G c Ex d IIC T4		

AXCBF-EX		400-7/32°-4	500-9/20°-2	500-9/30°-4	630-9/26°-4	800-9/18°-4
Art. no.		*33027*	*33024*	*33028*	*33029*	*33030*
Voltage	V	415	415	415	415	415
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	444	3054	863	2187	3403
Starting current	A	6.8	26.2	11.6	23.4	51.6
Current	A	1.1	4.78	1.85	4.27	6.02
Max. airflow	m^3/h	3884	9756	6674	12236	21164
Fan impeller speed	r.p.m.	1444	2840	1450	1459	1457
Temperature range, ambient and duct	°C	-20..40	-20..40	-20..40	-20..40	-20..40
Weight	kg	59	85	82.7	112	196
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	55	55	55	55
Certificate				Sira 07ATEX6341X		
Explosion proof				II 2G c Ex d IIC T4		

Fans for aggressive media



For special requirements

The robust plastic fans from Systemair were specially developed for applications where dirt, corrosive gases or other aggressive components may occur in the extracted air. Typical applications are medical facilities, the food, electrical or chemical industries and the metal industry.

PRF 414



Plastic fan

DVP 420



Plastic roof fan





ASS-P
Flexible connection
page 567

PRF
Centrifugal fan
page 414

ASS-P
Flexible connection
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VKA-P
Automatic shutter
page 567

SD PRF
Vibration damper
page 566

VP
Splinter protection
page 566

VKS-P
Automatic damper
page 567

PRF

Plastic fan



IE2
2009/640/EG

- For applications with strongly corrosive gases, polluted air or other aggressive gases in the extract air
- Temperature of transported air from -15 °C to +70 °C
- Base incl. motor suspension made from painted sheet steel

Casing
Sintered casing manufactured from UV-resistant PE, waterproof. The casing can be easily turned (standard position for LG270).

Motor
Voltage controllable IEC standard motor or frequency inverter controllable IE2 standard motors. Motor outside the airstream. Terminal box on the motor.

Impeller geometry
Single inlet impellers manufactured from PP with high-performance blade geometry.

Output control
Speed controllable via frequency inverter.

Motor protection
Integrated thermal contacts (for voltage-controllable motors) or thermistors (for 1-stage motors) with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

For aggressive media

Accessories



ASS-P
Flexible connection
Page 501



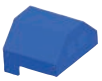
VKA-P
Adjustable damper
Page 485



VKS-P
Automatic damper
Page 484



VP
Splinter protection
Page 484



WSD PRF
Weather protection
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SD-PRF
Vibration damper
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Electrical accessories



S-ET
Motor protection
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STDT
Motor protection
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RTRD / RTRDU
Speed control
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RTRE
Speed control
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REU
Speed control
Page 484

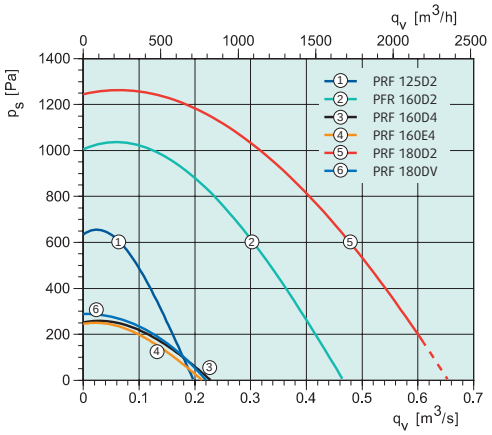


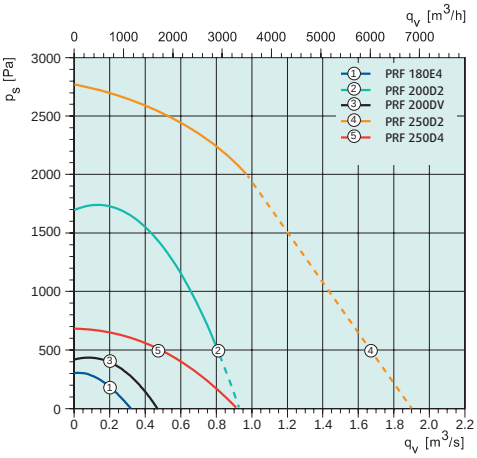
REV
Switching device
Page 510



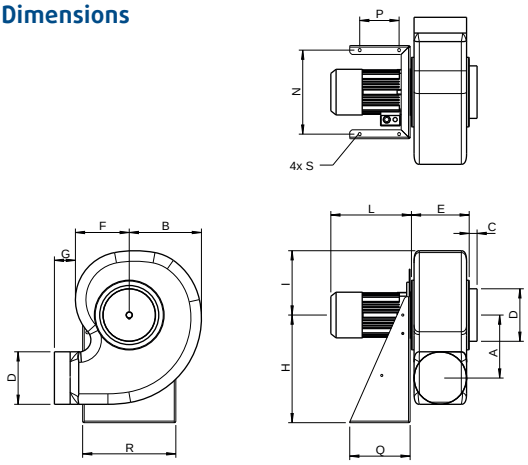
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



PRF	A	B	C	øD	E	F	G	H	I	L	N	P	Q	R
125D2	142	187	40	125	120	150	60	250	165	195	200	100	140	235
160D2/D4/E4	183	228	40	160	153	188	60	310	210	210	255	100	140	290
180D2	208	274	40	180	160	204	60	350	230	230	277	120	190	316
180E4/DV	208	274	40	180	160	204	60	350	230	190	277	120	190	316
200D2/DV	230	310	40	200	170	220	60	410	245	210	320	150	230	355
250D2/D4	290	380	40	250	194	365	80	495	330	340	330	170	250	365

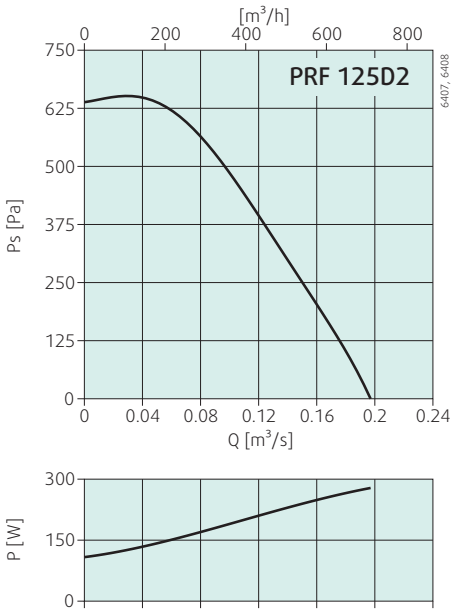
Technical data

PRF		PRF 125D2	PRF 160D2 IE2	PRF 160D4	PRF 160E4	PRF 180D2 IE2	PRF 180DV
Art. no.		*31525*	*33562*	*31495*	*31545*	*33563*	*31497*
Voltage	V	400	400	400	230	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	1	3	3
Current	A	0.579	1.68	0.571	0.75	2.37	1.01
Input power (P1)	W	278	919	142	171	1396	229
Max. airflow	m^3/h	709	1656	821	767	2268	1152
Fan impeller speed	r.p.m.	2806	2825	1467	1427	2825	1365
Max. temperature of transported air	°C	70	70	70	70	70	70
* when voltage-controlled	°C	70	-	-	-	-	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	59	66	49.6	45.7	68	49
Weight	kg	10.1	10.2	14.5	13.8	20.5	15
Insulation class		F	F	F	F	F	F
Enclosure class. motor	IP	55	55	54	54	55	54
Capacitor	µF	-	-	-	6	-	
Motor protection [1]		-	-	-	S-ET 10	-	STDT 16
Speed control. five-step [1]	Transf.	FRQ5(S)-4A	FRQ5(S)-4A	FRQ5(S)-4A	RTRE 1.5	FRQ5(S)-4A	RTRD 2
Speed control. five-step high/low [1]	Transf.	-	-	-	REU 1.5	-	RTRDU 2
Speed control. stepless [1]		FRQ(S)-4A	FRQ(S)-4A	FRQ(S)-4A	-	FRQ(S)-4A	-

PRF		PRF 180E4	PRF 200D2 IE2	PRF 200DV	PRF 250D2 IE2	PRF 250D4 IE2	
Art. no.		*31564*	*33564*	*31499*	*33566*	*33565*	
Voltage	V	230	400	400	400	400	
Frequency	Hz	50	50	50	50	50	
Phase	~	1	3	3	3	3	
Current	A	1.11	3.16	1.32	7.64	1.78	
Input power (P1)	W	140	2101	406	5396	995	
Max. airflow	m^3/h	1152	3100	1692	4000	3276	
Fan impeller speed	r.p.m.	1365	2840	1413	2890	1390	
Max. temperature of transported air	°C	70	70	70	70	70	
* when voltage-controlled	°C	70	-	70	-	-	
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	49	73	59.5	85	65	
Weight	kg	15.7	28	19.1	48	34	
Insulation class		F	F	F	F	F	
Enclosure class. motor	IP	54	55	54	55	55	
Capacitor	µF	6	-	-	-	-	
Motor protection [1]		S-ET 10	-	STDT 16	-	-	
Speed control. five-step [1]	Transf.	RTRE 1.5	FRQ5(S)-4A	RTRD 2	FRQ5(S)-10A	FRQ5(S)-10A	
Speed control. five-step high/low [1]	Transf.	REU 1.5	-	RTRDU 2	-	-	
Speed control. stepless [1]		-	FRQ(S)-4A	-	FRQ(S)-10A	FRQ(S)-10A	

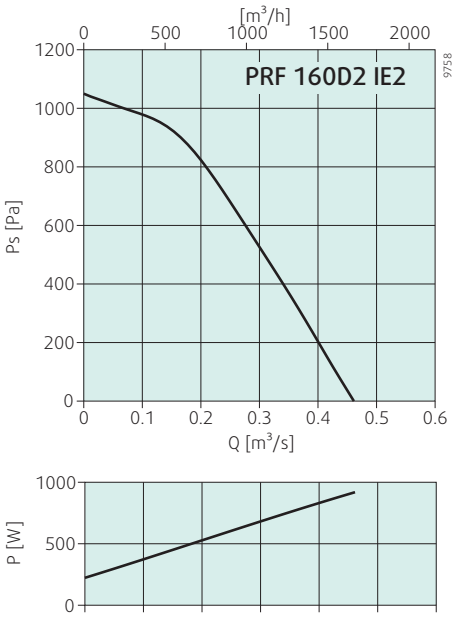
[1] Systemair recommendation. More alternatives can be found on page 478.

Performance



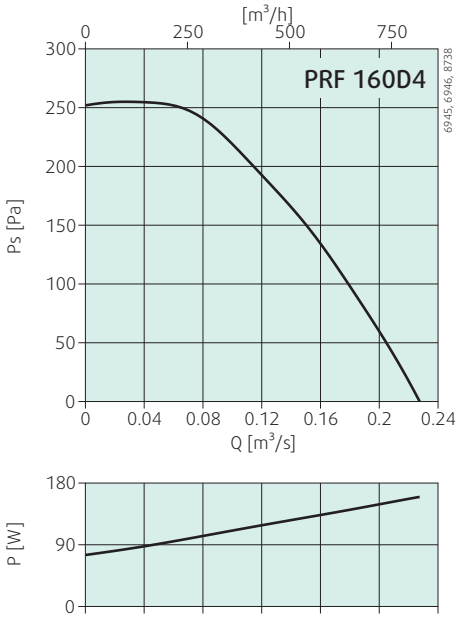
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	67	66	76	76	76	67	59	52
L_{wA} Outlet dB(A)	85	66	73	81	80	77	68	62	52
L_{wA} Surrounding dB(A)	73	43	30	55	65	72	60	53	43

Measurement point: 151 l/s; 248 Pa



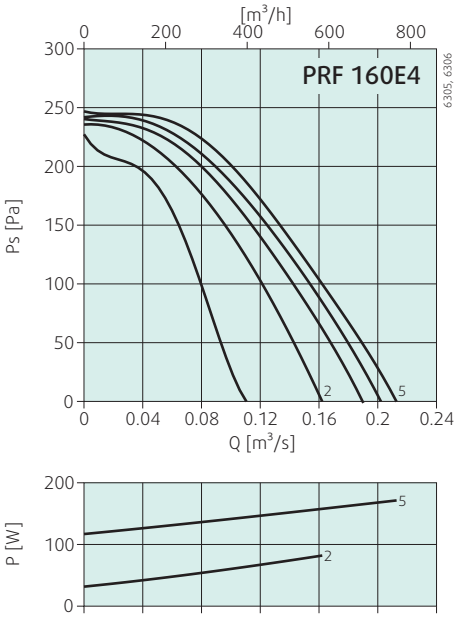
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	71	73	76	76	75	68	60	53
L_{wA} Outlet dB(A)	87	73	77	83	82	78	74	68	60
L_{wA} Surrounding dB(A)	74	53	45	68	70	67	63	53	45

Measurement point: 738 m³/h; 877 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	58	62	67	64	58	54	46	38
L_{wA} Outlet dB(A)	73	59	67	70	67	60	55	47	39
L_{wA} Surrounding dB(A)	61	18	29	57	57	49	51	42	34

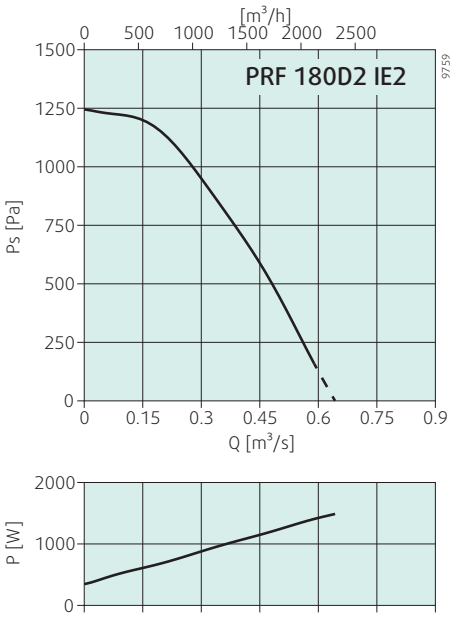
Measurement point: 174 l/s; 109 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	64	65	62	61	58	52	44	35
L_{wA} Outlet dB(A)	71	56	62	67	66	61	54	46	36
L_{wA} Surrounding dB(A)	57	34	44	47	53	51	48	39	33

Measurement point: 159 l/s; 106 Pa

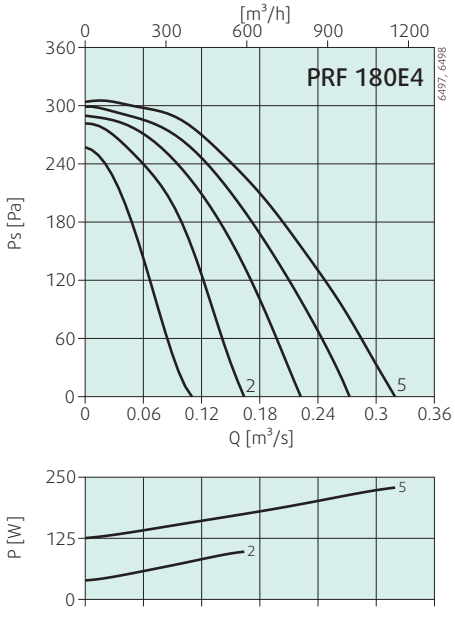
Performance



Min. back pressure 180 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	78	81	80	81	80	73	67	61
L_{wA} Outlet dB(A)	91	70	86	85	85	83	78	71	63
L_{wA} Surrounding dB(A)	74	68	46	60	69	69	62	53	47

Measurement point: 986,4 m³/h; 1093 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	54	69	65	66	61	56	50	44
L_{wA} Outlet dB(A)	77	55	73	71	71	63	61	52	43
L_{wA} Surrounding dB(A)	60	34	37	50	58	52	49	40	36

Measurement point: 249 l/s; 118 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	53	67	62	62	58	54	48	41
L_{wA} Outlet dB(A)	73	54	70	67	66	60	58	49	41
L_{wA} Surrounding dB(A)	56	32	34	45	54	49	46	37	34

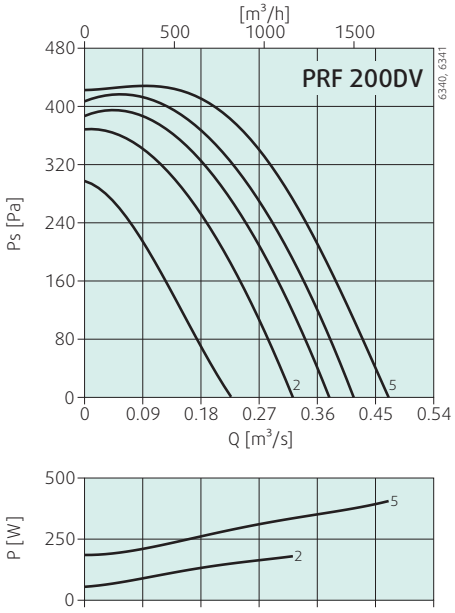
Measurement point: 612 m³/h; 221 Pa

Min. back pressure 400 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	90	83	78	81	85	84	81	74	67
L_{wA} Outlet dB(A)	93	85	86	85	87	85	83	74	65
L_{wA} Surrounding dB(A)	81	77	47	63	74	75	72	63	55

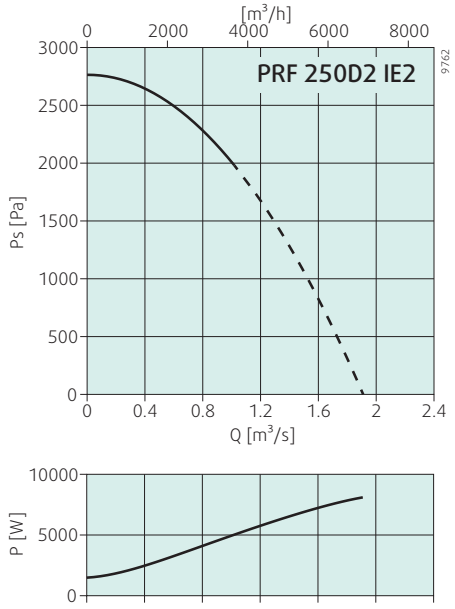
Measurement point: 1242 m³/h; 1576 Pa

Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	59	66	70	72	70	65	58	51
L_{wA} Outlet dB(A)	74	58	69	69	68	63	61	51	42
L_{wA} Surrounding dB(A)	67	32	38	54	65	58	54	48	43

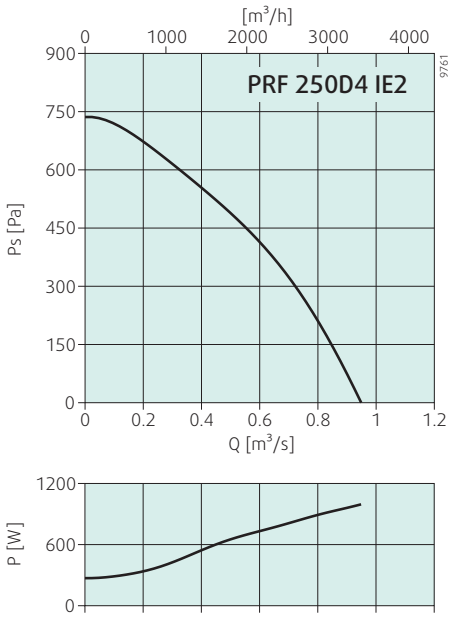
Measurement point: 383 l/s; 171 Pa



Min. back pressure 2000 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	102	91	92	96	96	93	92	87	78
L_{wA} Outlet dB(A)	102	86	96	96	96	94	93	85	75
L_{wA} Surrounding dB(A)	95	69	82	90	89	88	86	83	73

Measurement point: 2966,4 m³/h; 2002 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	83	76	75	72	77	76	73	65	56
L_{wA} Outlet dB(A)	87	83	78	77	77	77	76	64	55
L_{wA} Surrounding dB(A)	73	47	51	60	66	71	65	58	44

Measurement point: 1461,6 m³/h; 548 Pa



Reference: Experimenta, Heilbronn, Germany

DVP

Plastic roof fan



- For applications with strongly corrosive gases, polluted air or other aggressive gases in the extract air
- Temperature of transported air from -15 °C to +60 °C

Casing
Robust, weatherproof casing made of PP. Terminal box on the casing.

Motor
The motor is encapsulated and separated from the airstream. Single speed motors on request.

Impeller geometry
Single inlet impellers made from PP with high-performance blade geometry.

Output control
Speed controllable via frequency inverter, as well as 2-speed, switchable poles (Dahlander).

Motor protection
The motor protection can be implemented on site with an over-current relay.

You can find more information in our online catalogue on www.systemair.com

Accessories



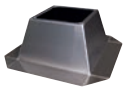
VKS-DVP
Automatic shutter
Page 566



ASF-DVP
Inlet flange
Page 566



ASS-DVP
Flexible connection
Page 566



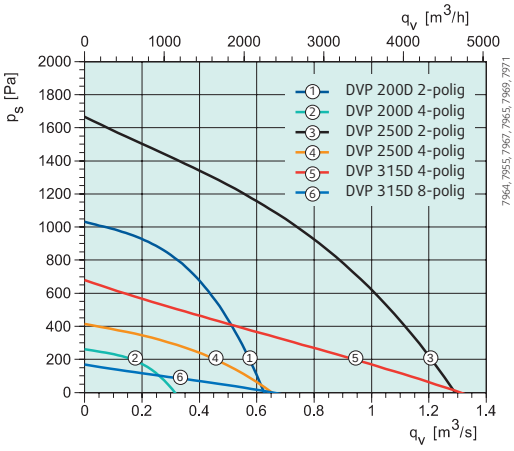
FDS
Flat roof socket
Page 546

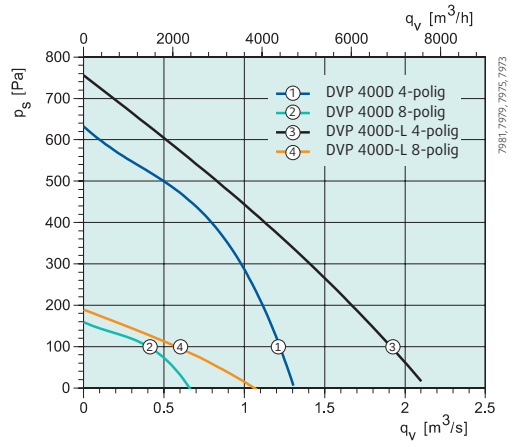
Electrical accessories



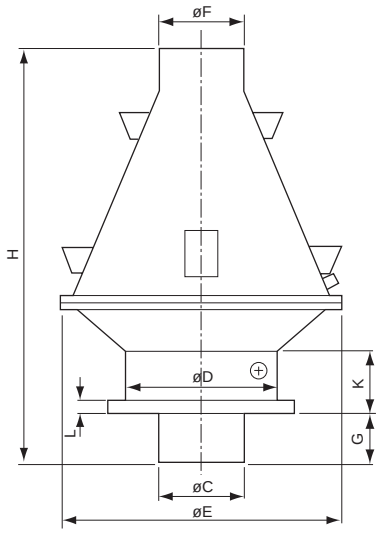
FRQ
Frequency inverter
Page 490

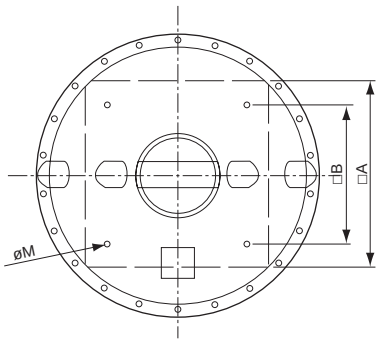
Quick selection





Dimensions





DVP 200 = SSD/FDS 310/311
DVP 250 = SSD/FDS 355/400
DVP 315 = SSD/FDS 450/500
DVP 400 = SSD/FDS 560/630

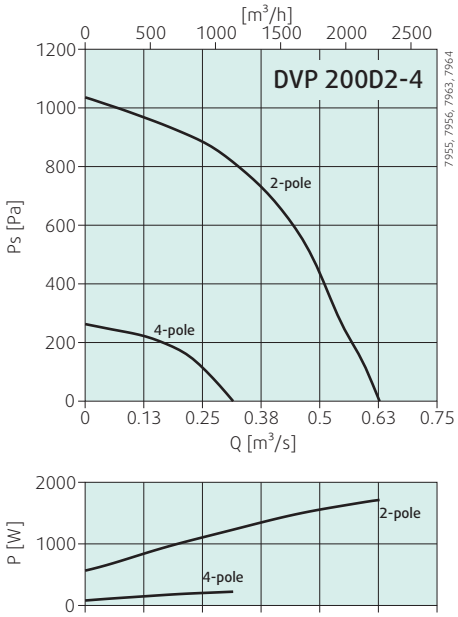
DVP	□A	□B	øC	øD	øE	øF	G	H	K	L	øM
DVP 200	435	330	200	355	662	200	119	1065	146	30	4x10
DVP 250	595	450	250	400	768	250	119	981	181	30	4x12
DVP 315	665	535	315	560	810	315	218	1161	200	30	4x12
DVP 400	939	750	400	601	976	400	218	1134	235	30	4x14

Technical data

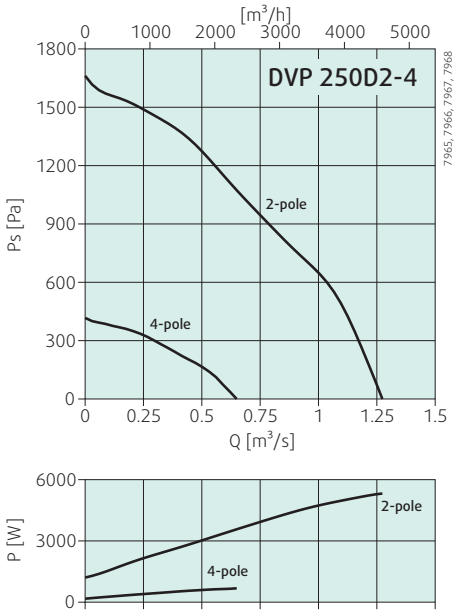
DVP		DVP 200D2-4	DVP 250D2-4	DVP 315D4-8	DVP 400D4-8	DVP 400D4-8-L
Art. no.		*32295*	*32296*	*32297*	*32299*	*32298*
Voltage	V	400	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	3	3	3	3
Input power (P1)	W	1714	5321	2200	2019	4082
Current	A	1.27	7.63	5	5	8.28
Max. airflow	m^3/h	2261	4583	4590	4720	7610
Fan impeller speed	r.p.m.	2885	2874	1494	1445	1447
Weight	kg	25	35	45	55	65
Max. temperature of transported air	°C	60	60	60	60	60
Sound pressure level at 4 m (free field)	dB(A)	61	69	54	59	60
Sound pressure level at 10 m (free field)	dB(A)	53	61	46	51	52
Insulation class		F	F	F	F	F
Enclosure class. motor	IP	IP55	IP55	IP55	IP55	IP55



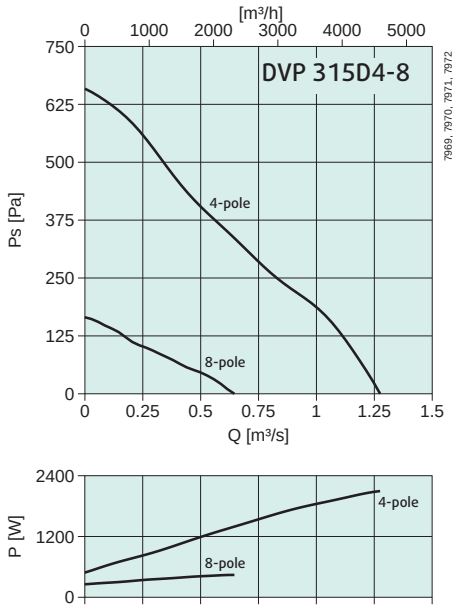
Performance



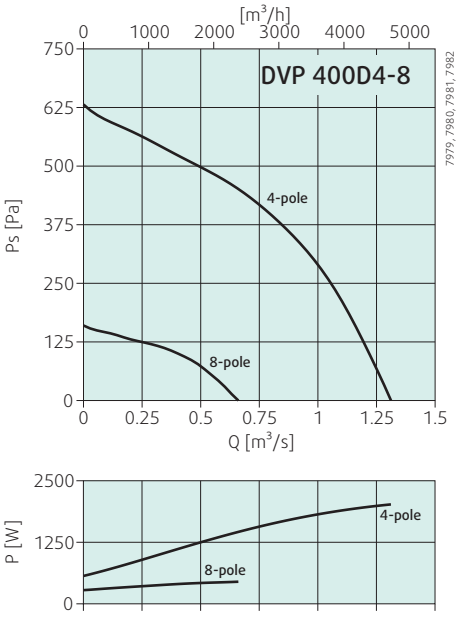
Type	Tot	Frequency bands [Hz]							
2-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	90	71	74	83	86	83	78	69	61
L_{wA} Outlet dB(A)	85	61	65	78	81	77	76	69	62
Measurement point: 1295 m³/h; 755 Pa									
4-pole									
L_{wA} Inlet dB(A)	73	57	64	69	65	64	58	48	39
L_{wA} Outlet dB(A)	66	46	54	61	61	57	55	48	39
Measurement point: 649 m³/h; 190 Pa									



Type	Tot	Frequency bands [Hz]							
2-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	98	78	81	93	94	89	84	76	69
L_{wA} Outlet dB(A)	95	83	80	86	91	87	85	78	71
Measurement point: 1954 m³/h; 1218 Pa									
4-pole									
L_{wA} Inlet dB(A)	80	60	73	77	73	71	63	56	48
L_{wA} Outlet dB(A)	78	69	68	72	73	70	63	56	49
Measurement point: 1006 m³/h; 312 Pa									



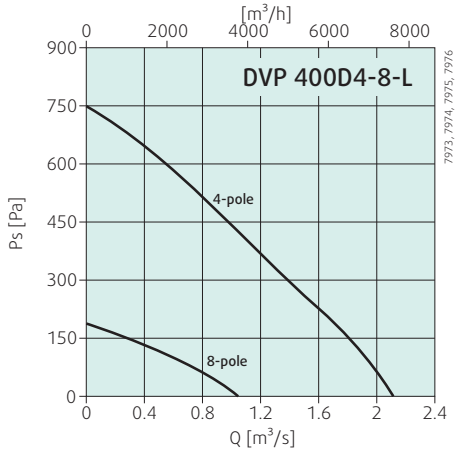
Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	66	77	77	74	74	67	64	55
L_{wA} Outlet dB(A)	81	70	75	73	74	73	68	64	57
Measurement point: 1186 m³/h; 507 Pa									
8-pole									
L_{wA} Inlet dB(A)	68	55	65	61	61	56	47	43	33
L_{wA} Outlet dB(A)	63	45	52	53	61	54	49	45	37
Measurement point: 1205 m³/h; 83,7 Pa									

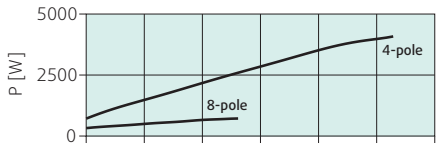


Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	89	65	86	85	79	79	72	67	59
L_{wA} Outlet dB(A)	87	72	81	83	78	76	72	68	60
Measurement point: 2407 m³/h; 448 Pa									
8-pole									
L_{wA} Inlet dB(A)	73	57	72	59	63	62	52	46	36
L_{wA} Outlet dB(A)	76	62	75	59	62	56	51	46	36
Measurement point: 1397 m³/h; 104 Pa									



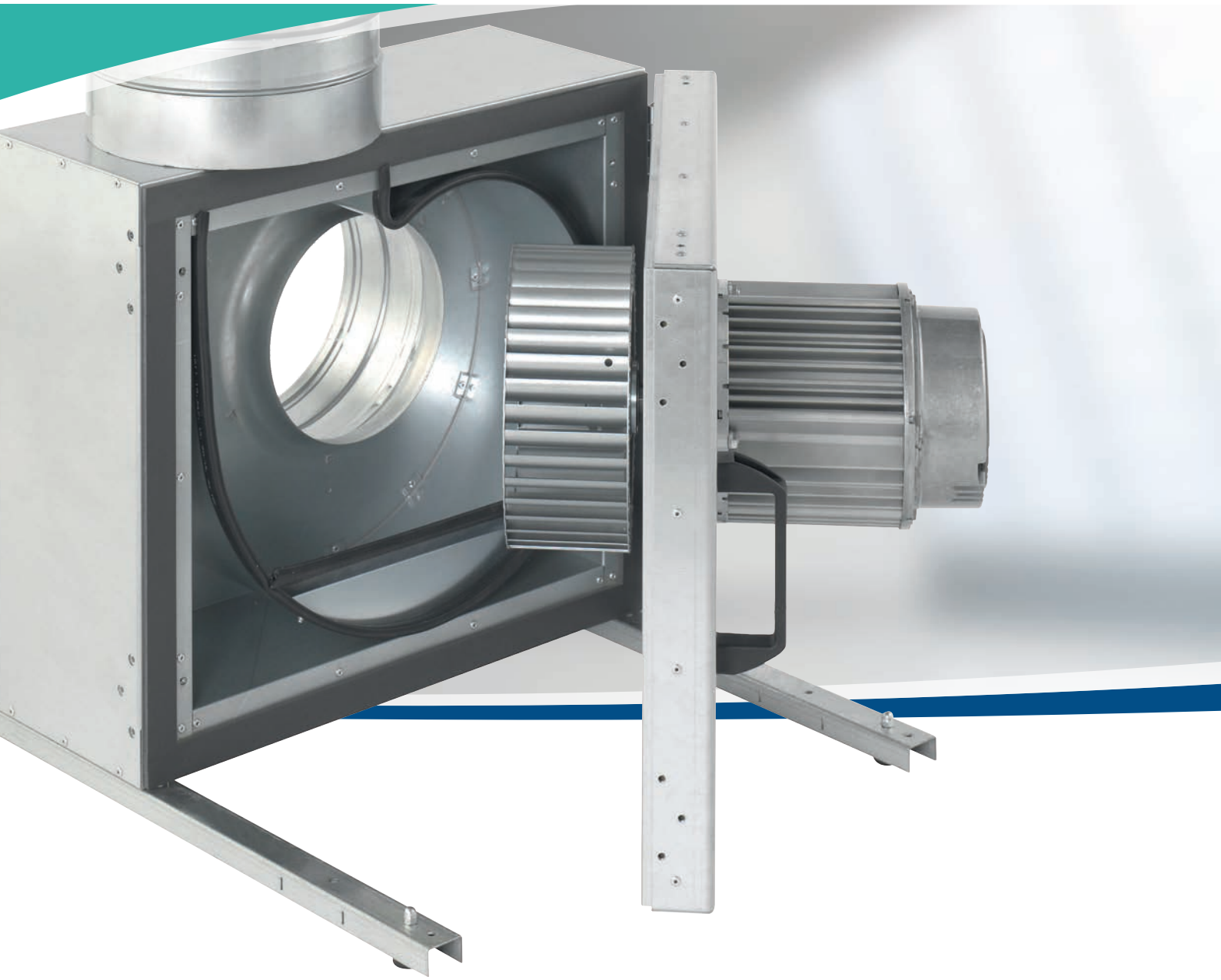
Performance





Type	Tot	Frequency bands [Hz]							
4-pole		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	88	69	84	82	80	80	75	72	64
L_{wA} Outlet dB(A)	86	72	77	80	78	79	75	71	63
Measurement point: 2031 m³/h; 594 Pa									
8-pole									
L_{wA} Inlet dB(A)	78	62	78	65	64	61	54	50	40
L_{wA} Outlet dB(A)	76	63	75	63	65	59	54	49	40
Measurement point: 2041 m³/h-; 103 Pa									

Centrifugal fans



Our specialists

Systemair radial thermo-fans are always the first choice when high transported air temperatures and harsh application conditions prevail. They play to their strengths wherever the requirements are somewhat more stringent, for example, extraction of air in kitchens, welding fume extractors, industrial catering ovens and similar applications.

Over the years, Systemair has not only consistently continued to develop its fans, but also extended and enhanced the range of products we offer. This means the areas of application are incredibly diverse.

KBT EC 428



Thermo box, with EC motor

KBR EC 438



Thermo box, with EC motor

KBR/F 448



Thermo box

KBT 432



Thermo box

KBR 442



Thermo box

AxZent EC 454



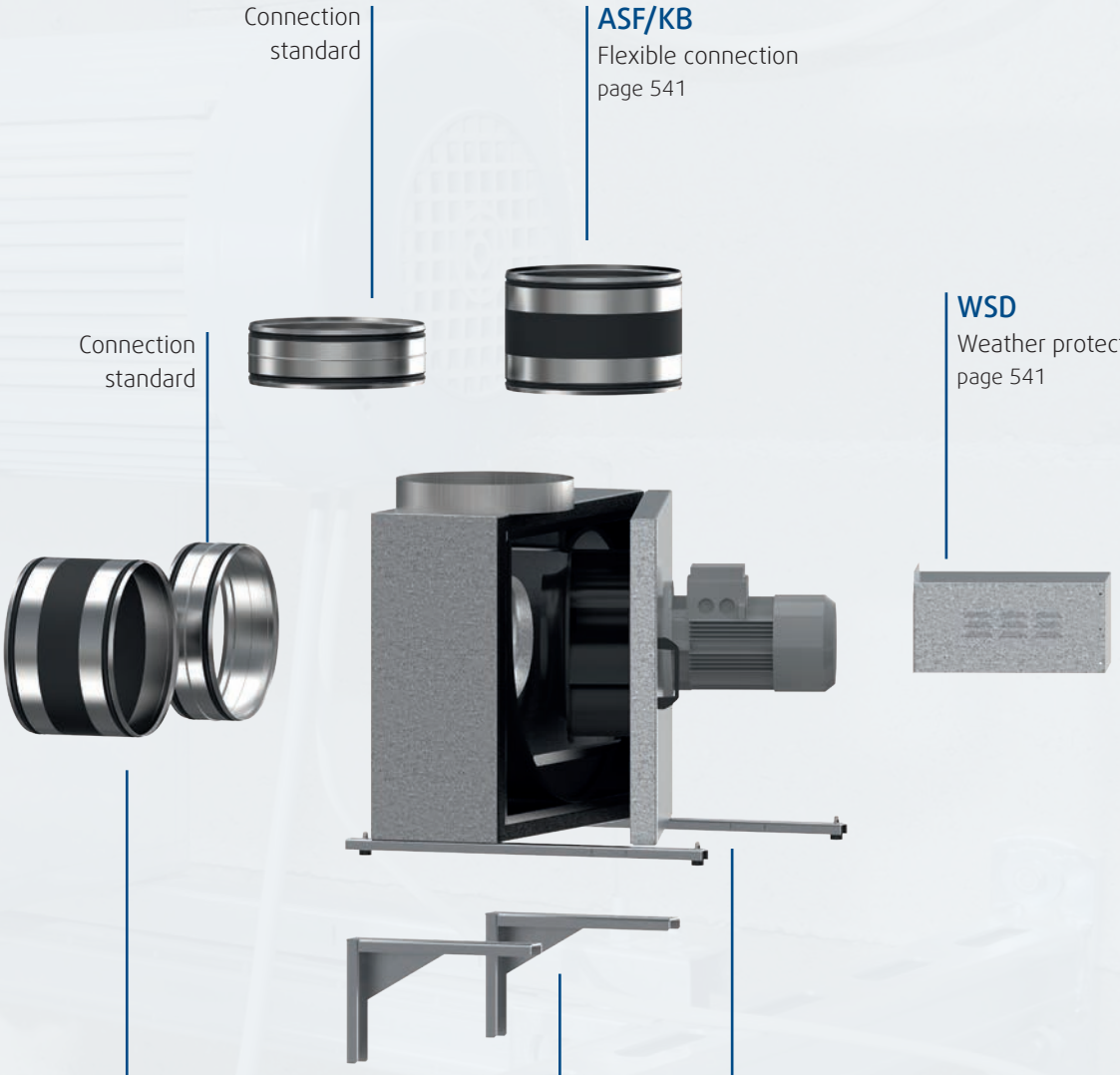
Thermo centrifugal fan, with EC motor

AxZent 458



Thermo centrifugal fan


LÜFTUNG
MEDITATIONS-
SAUNA


Connection standard
ASF/KB
Flexible connection
page 541
Connection standard
WSD
Weather protection
page 541
ASF/KB
Flexible connection
page 541
WBK
Wall mounting bracket
page 541
KBT EC / KBR EC
Centrifugal fan
page 428

KBT EC

Thermo box



- Temperature of transported air up to 120 °C in continuous operation
- Inspection door with impeller and motor for maintenance and cleaning work can be swung outwards completely
- Integrated protection plate to prevent grease or oil escaping
- Weather protection for the motor is standard
- Drain plug for liquids that accumulate in the casing is standard

Casing
Double-skinned casing manufactured from galvanised steel with 50 mm mineral wool acoustic and thermal insulation (nonflammable in accordance with DIN 4102).

Motor
Energy-saving, highly-efficient EC compact motor.

Impeller geometry
Radial impeller with forward curved blades manufactured from galvanised steel.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
Motor protection via integrated motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories

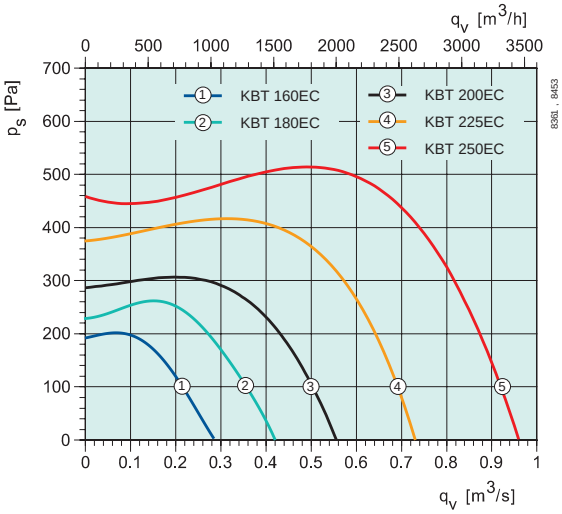


ASF/KB
Flex. connection
Page 541



WBK
Wall mounting bracket
Page 541

Quick selection



Electrical accessories



CO2RT
Transmitter
Page 501



CXE/AVC
Digital regulator
Page 498



EC-Vent/Basic
Control unit
Page 485



HR1
Room Humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 488

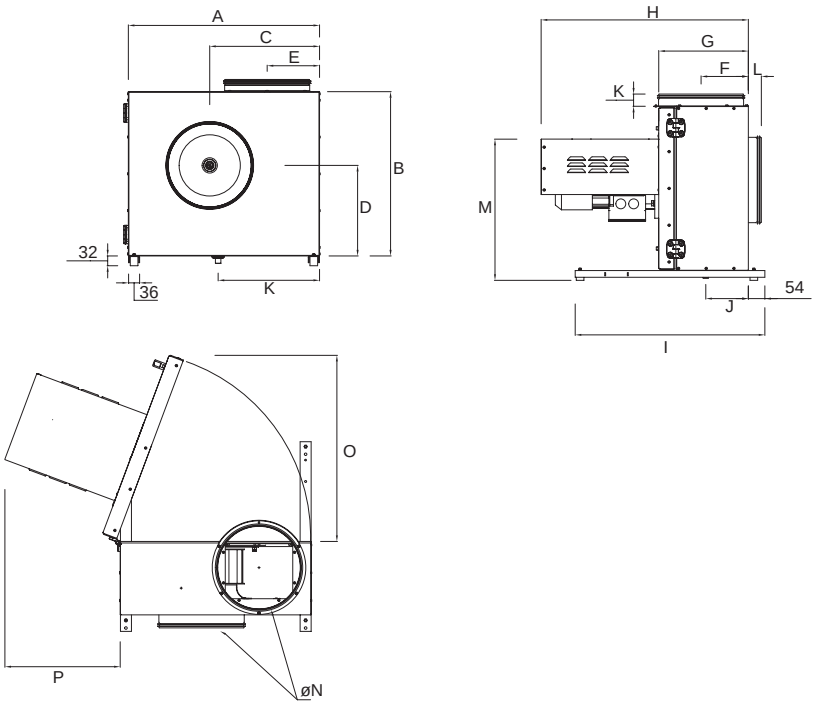


REV
Switching device
Page 510



RT
Room Thermostat
Page 490

Dimensions



KBT EC	A	B	C	D	E	F	øG	H	I	J	K	L	M	N	O	P
KBT 160EC	437	384	249	212	128	100	209	473	470	100	227	43	345	160	437	320
KBT 180EC	470	412	272	224	134	105	218	483	470	95	244	43	366	180	470	320
KBT 200EC	510	445	293	250	143	115	233	617	470	113	273	43	392	200	510	440
KBT 225EC	522	455	301	256	147	121	251	635	620	121	282	43	412	225	522	440
KBT 250EC	576	500	333	280	161	140	272	656	620	139	305	43	436	250	576	440

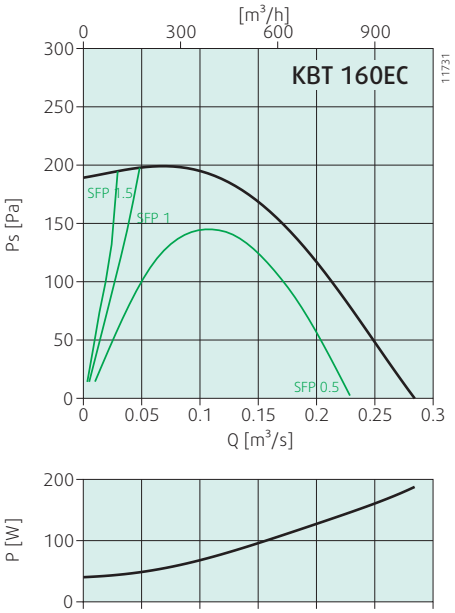
Technical data

KBT EC		KBT 160EC	KBT 180EC	KBT 200EC	KBT 225EC	KBT 250EC
Art. no.		*77162*	*77182*	*77202*	*77222*	*77252*
Voltage	V	230	230	230	400	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	3	3
Input power (P1)	W	188	358	535	794	1260
Current	A	0.787	1.52	2.43	1.36	2.02
Max. airflow	m^3/h	1022	1512	1994	2603	3456
Fan impeller speed	r.p.m.	1510	1507	1498	1387	1360
Max. temperature of transported air	°C	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	29	32	36	39	37
Weight	kg	26	33.2	36	38	43
Insulation class		B	B	B	B	F
Enclosure class, motor	IP	55	55	55	55	55
Speed control, stepless [1]		MTP 10	MTP 10	MTP 10	MTP 10	MTP 10

[1] Systemair recommendation. More alternatives can be found on page 478.

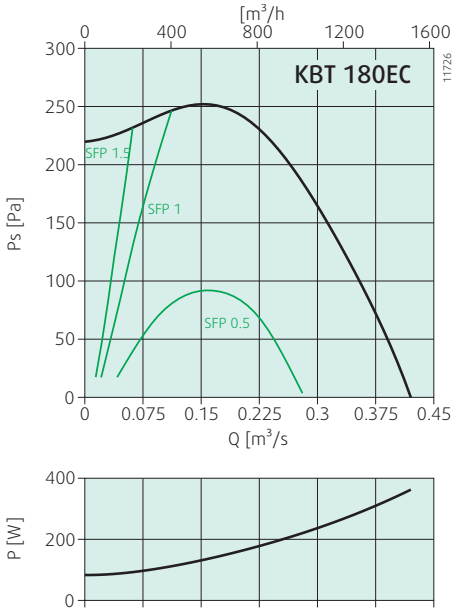


Performance



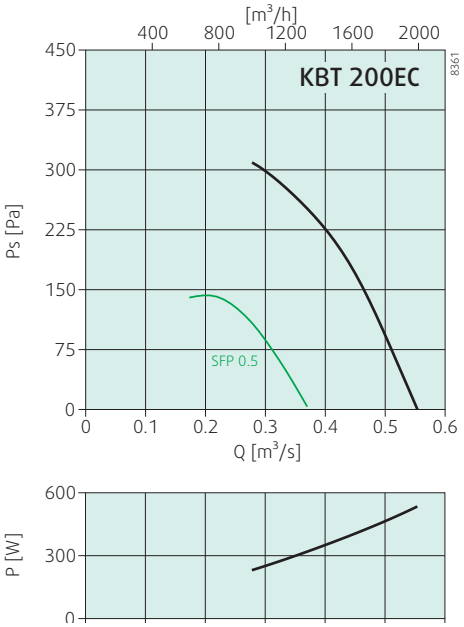
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	70	-	68	64	61	57	55	51	47
L_{wA} Outlet dB(A)	72	-	70	66	63	59	57	53	49
L_{wA} Surrounding dB(A)	52	-	50	46	43	39	37	33	29

Measurement point: 396 m³/h; 171 Pa



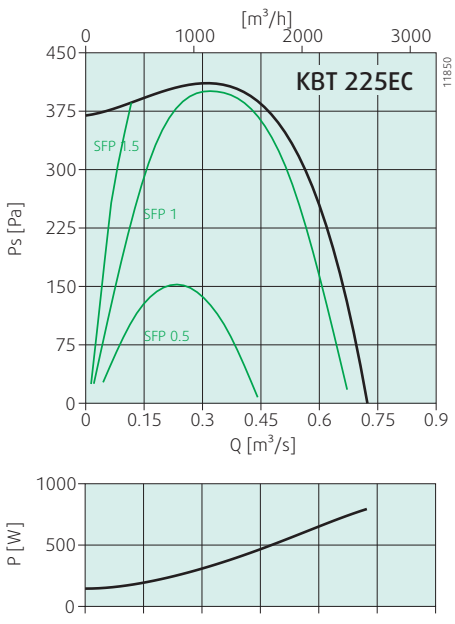
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	73	-	71	67	64	60	58	54	-
L_{wA} Outlet dB(A)	75	-	73	66	66	62	60	56	-
L_{wA} Surrounding dB(A)	55	-	53	46	46	42	40	36	-

Measurement point: 648 m³/h; 233 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	60	59	72	66	68	64	62	56
L_{wA} Outlet dB(A)	77	63	69	74	69	68	64	62	56
L_{wA} Surrounding dB(A)	59	26	23	53	50	49	54	52	42

Measurement point: 1096 m³/h; 296 Pa

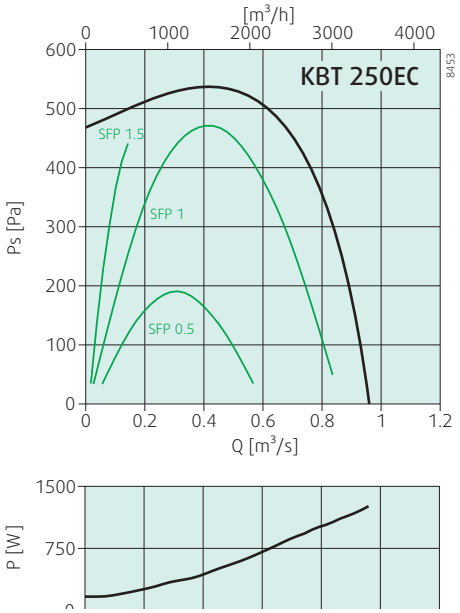


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	-	78	74	71	67	65	61	57
L_{wA} Outlet dB(A)	82	-	80	76	73	69	67	63	59
L_{wA} Surrounding dB(A)	62	-	60	56	53	49	47	43	39

Measurement point: 1188 m³/h; 411 Pa



Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	51	68	69	69	73	70	69	64
L_{wA} Outlet dB(A)	80	58	68	73	73	75	71	70	63
L_{wA} Surrounding dB(A)	60	12	45	51	50	54	53	55	50

Measurement point: 1776 m³/h; 528 Pa

KBT

Thermo box



- Temperature of transported air up to 120 °C in continuous operation
- Inspection door with impeller and motor for maintenance and cleaning work can be swung outwards completely
- Integrated protection plate to prevent grease or oil escaping
- Weather protection for the motor is standard
- Drain plug for liquids that accumulate in the casing is standard

Casing
Double-skinned casing manufactured from galvanised steel with 50 mm mineral wool acoustic and thermal insulation (nonflammable in accordance with DIN 4102).

Motor
Voltage controllable IEC standard motors or frequency converter controllable IE2 standard motors.

Impeller geometry
Radial impeller with forward curved blades manufactured from galvanised sheet steel.

Output control
Speed controllable via voltage reduction with a transformer, 2-stage operation via star-delta switching, or controllable with a frequency inverter.

Motor protection
Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



ASF/KB
Flex. connection
Page 541



WBK
Wall mounting bracket
Page 541

Electrical accessories



CO2RT
Transmitter
Page 501



T 120
Timer
Page 485



IR24-P
Presence detector
Page 496



DTV
Pressure switch
Page 507



S-ET
Motor protection
Page 501



HR1
Room humidistat
Page 484



RT
Room thermostat
Page 490



U-EK230E
Motor protection
Page 502



REU
Speed control
Page 484



RTRE
Speed control
Page 484

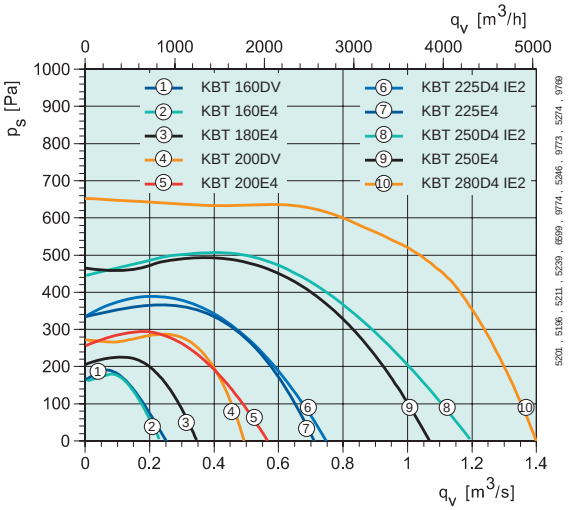


REV
Switching device
Page 510

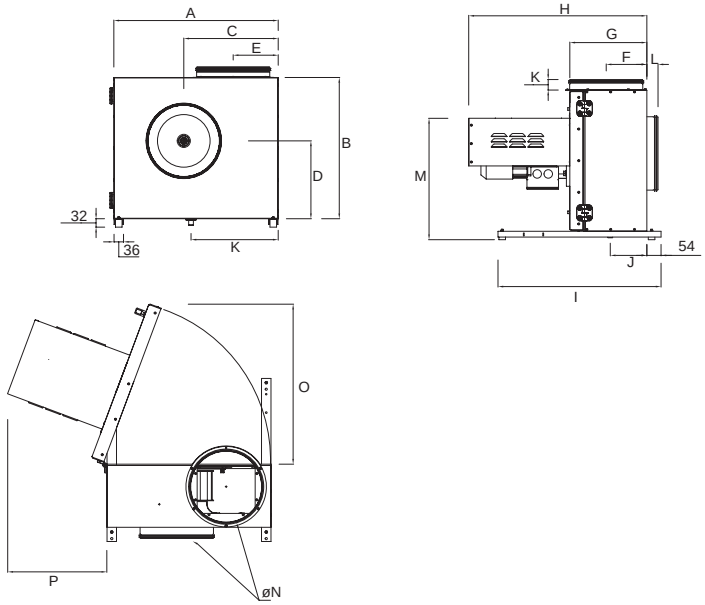


FRQ
Frequency inverter
Page 490

Quick selection



Dimensions



KBT	A	B	C	D	E	F	øG	H	I	J	K	L	M	N	O	P
KBT 160	437	384	249	212	128	100	209	473	470	100	227	43	345	160	437	320
KBT 180	470	412	272	224	134	105	218	483	470	95	244	43	366	180	470	320
KBT 200	510	445	293	250	143	115	233	617	470	113	273	43	392	200	510	440
KBT 225	522	455	301	256	147	121	251	635	620	121	282	43	412	225	522	440
KBT 250	576	500	333	280	161	140	272	656	620	139	305	43	436	250	576	440
KBT 280	625	537	359	296	171	155	293	677	620	139	331	43	462	280	625	440

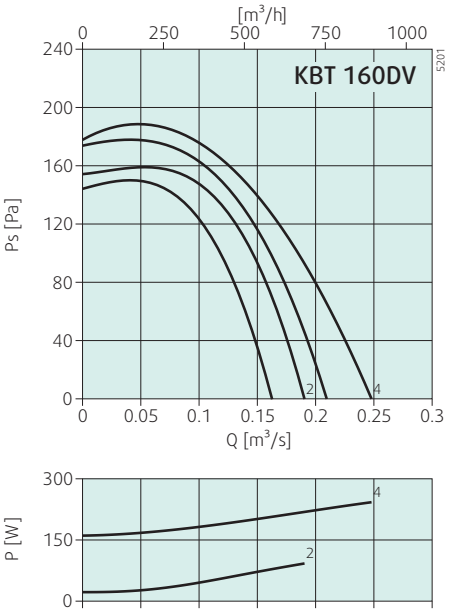
Technical data

KBT		KBT 160DV	KBT 160E4	KBT 180E4	KBT 200DV	KBT 200E4
Art. no.		*77160*	*77161*	*77180*	*77200*	*77201*
Voltage	V	400	230	230	400	230
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	1	3	1
Input power (P1)	W	243	121	272	567	783
Current	A	0.844	1.11	1.19	1.76	3.74
Max. airflow	m^3/h	893	832	1242	1757	2048
Fan impeller speed	r.p.m.	1412	1476	1305	1453	1442
Max. temperature of transported air	°C	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	31	31	34	37	37
Weight	kg	24	24.9	27	35	38
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	54	54

KBT		KBT 225D4 IE2	KBT 225E4	KBT 250D4 IE2	KBT 250E4	KBT 280D4 IE2
Art. no.		*77225*	*77226*	*77250*	*77251*	*77280*
Voltage	V	400	230	400	230	400
Frequency	Hz	50	50	50	50	50
Phase	~	3	1	3	1	3
Input power (P1)	W	1008	976	1938	1406	3625
Current	A	1.96	4.59	3.61	6.15	6.03
Max. airflow	m^3/h	2912	2549	4309	3854	5846
Fan impeller speed	r.p.m.	1418	1417	1410	1043	1428
Max. temperature of transported air	°C	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	39	38.2	44	45	47
Weight	kg	38	40	49	53	60
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	55	54	55	54	55

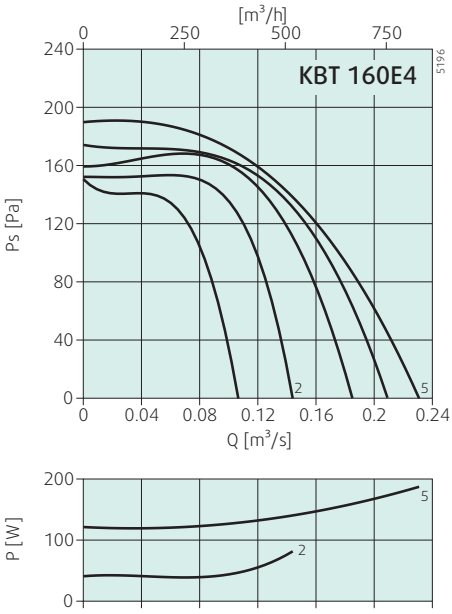


Performance



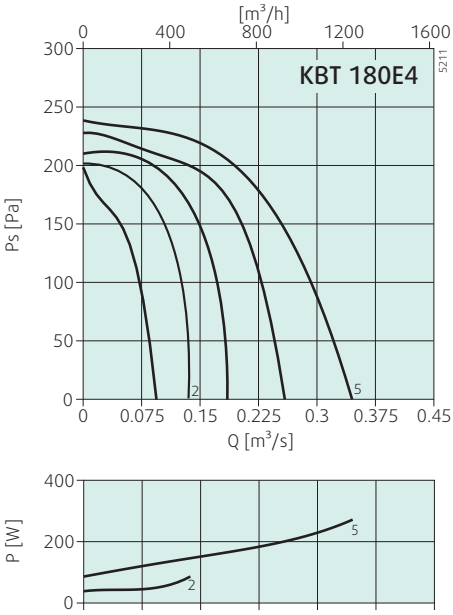
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	–	70	66	63	59	57	53	49
L_{wA} Outlet dB(A)	74	–	72	68	65	61	59	55	51
L_{wA} Surrounding dB(A)	54	–	52	48	45	41	39	35	31

Measurement point: 468 m³/h; 152Pa



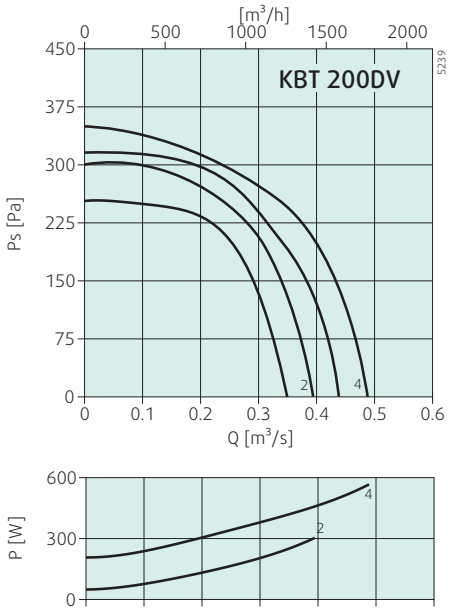
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	–	70	66	63	59	57	53	49
L_{wA} Outlet dB(A)	74	–	72	68	65	61	59	55	51
L_{wA} Surrounding dB(A)	54	–	52	48	45	41	39	35	31

Measurement point: 432 m³/h; 154 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	75	–	73	69	66	62	60	56	–
L_{wA} Outlet dB(A)	77	–	75	71	68	64	62	58	–
L_{wA} Surrounding dB(A)	57	–	55	51	48	44	42	38	–

Measurement point: 684 m³/h; 203 Pa

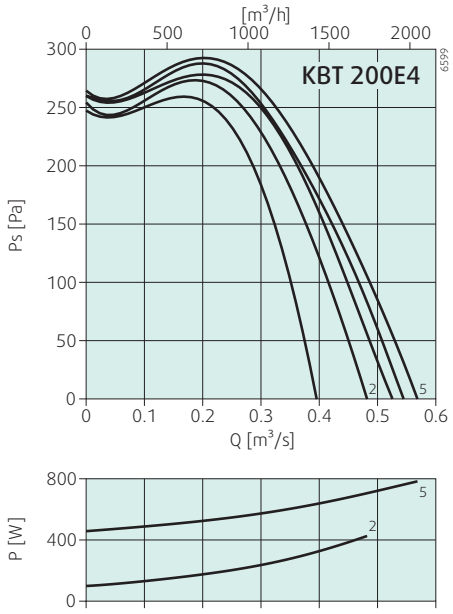


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	–	76	72	69	65	63	59	55
L_{wA} Outlet dB(A)	80	–	78	74	71	67	65	61	57
L_{wA} Surrounding dB(A)	60	–	58	54	51	47	45	41	37

Measurement point: 936 m³/h; 286 Pa

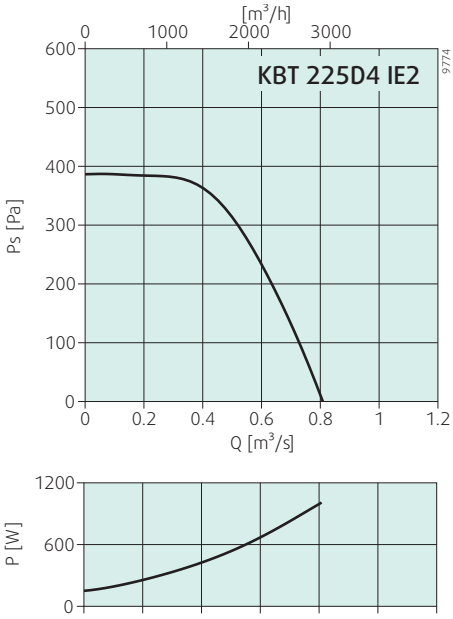


Performance



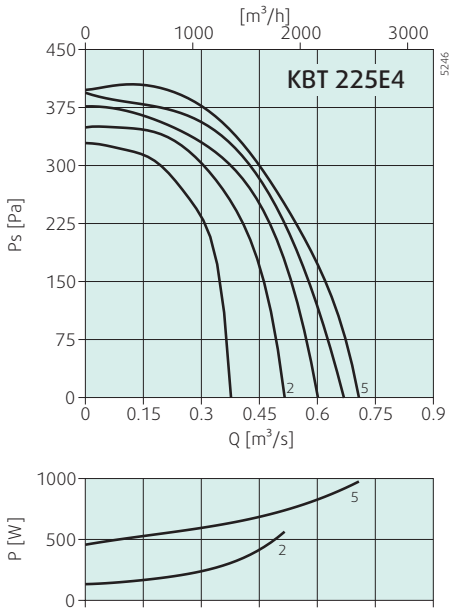
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	78	–	76	72	69	65	63	59	55
L_{wA} Outlet dB(A)	80	–	78	74	71	67	65	61	57
L_{wA} Surrounding dB(A)	60	–	58	54	51	47	45	41	37

Measurement point: 1116 m³/h; 259 Pa



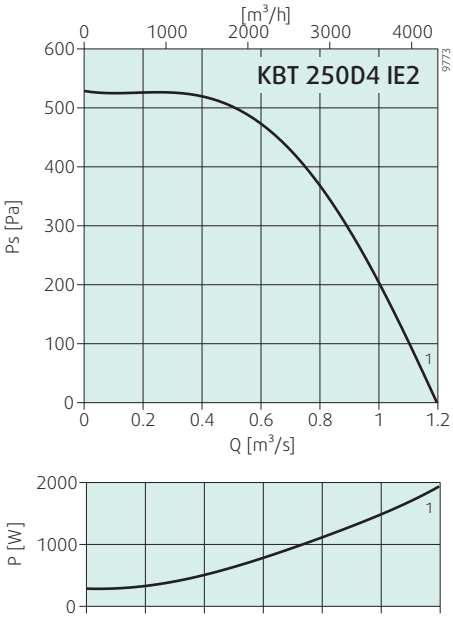
Typ	Tot	Mittelfrequenzband [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	-	79	75	72	68	66	62	58
L_{wA} Outlet dB(A)	83	-	81	77	74	70	68	64	60
L_{wA} Surrounding dB(A)	63	-	61	57	54	50	48	44	40

Measurement point: 1296 m³/h; 373 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	76	73	69	67	63	59
L_{wA} Outlet dB(A)	84	–	82	78	75	71	69	65	61
L_{wA} Surrounding dB(A)	64	–	62	58	55	51	49	45	41

Measurement point: 1368 m³/h; 338 Pa

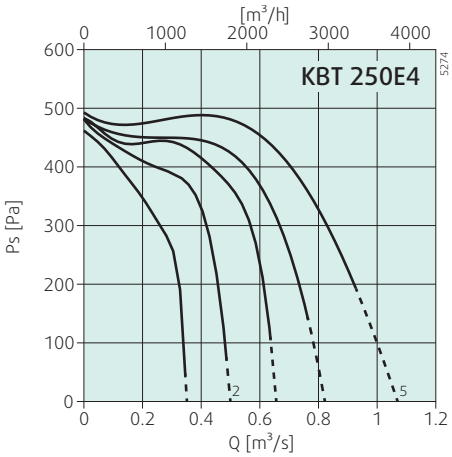


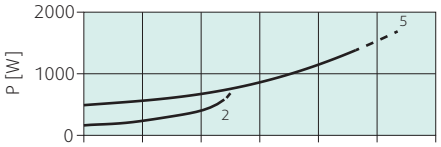
Typ	Tot	Mittelfrequenzband [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	85	-	83	79	76	72	70	66	62
L_{wA} Outlet dB(A)	87	-	85	81	78	74	72	68	64
L_{wA} Surrounding dB(A)	67	-	65	61	58	54	52	48	44

Measurement point: 1476 m³/h; 517 Pa



Performance

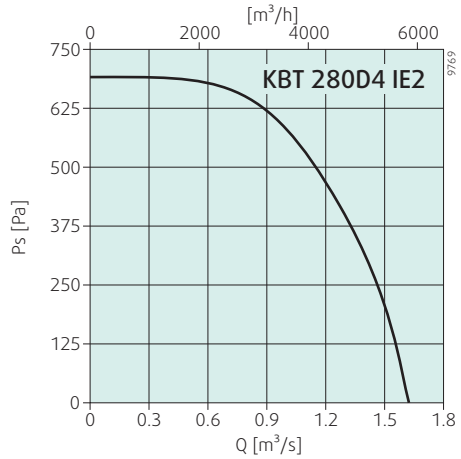


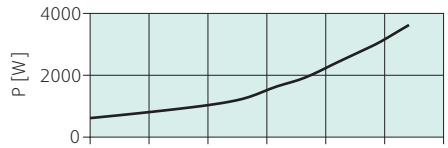


mimimum back pressure 200 Pa

Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	–	84	80	77	73	71	67	63
L_{wA} Outlet dB(A)	88	–	86	82	79	75	73	69	65
L_{wA} Surrounding dB(A)	68	–	66	62	59	55	53	49	45

Measurement point: 2016 m³/h; 467 Pa





Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	-	86	82	79	75	73	69	65
L_{wA} Outlet dB(A)	90	-	88	84	81	77	75	71	67
L_{wA} Surrounding dB(A)	70	-	68	64	61	57	55	51	45

Measurement point: 2340 m³/h; 665 Pa



Reference: Thermenwelt Erding, Germany

KBR EC

Thermo box



- Energy-saving
- Temperature of transported air up to 120 °C in continuous operation
- Low noise level
- Inspection door with impeller and motor for maintenance and cleaning work can be swung outwards completely
- Integrated protection plate to prevent grease or oil escaping

Casing
Double-skinned casing manufactured from galvanised steel with 50 mm mineral wool acoustic and thermal insulation (nonflammable in accordance with DIN 4102).

Motor
Energy-saving, highly-efficient EC compact motor.

Impeller geometry
Radial impeller with backward curved blades made from galvanised sheet steel.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
Motor protection via integrated motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



ASF/KB
Flex. connection
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ALS KBT
Drain plug
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WSD-KBT
Weather protection
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WBK
Wall mounting bracket
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Electrical accessories



CO2RT
Transmitter
Page 501



CXE/AVC
Digital regulator
Page 498



EC-Vent/Basic
Control unit
Page 485



HR1
Room Humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 488

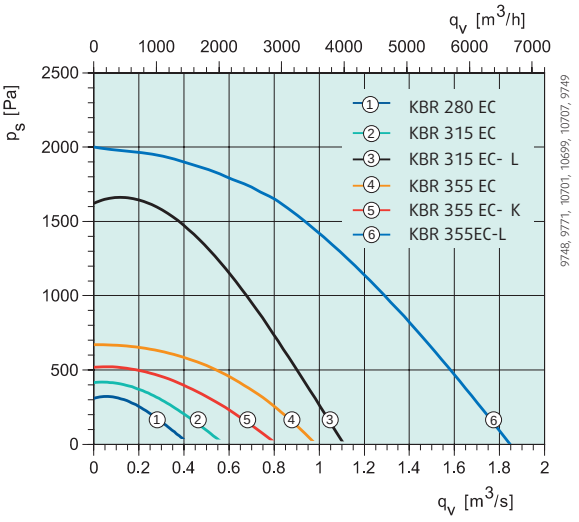


REV
Switching device
Page 510

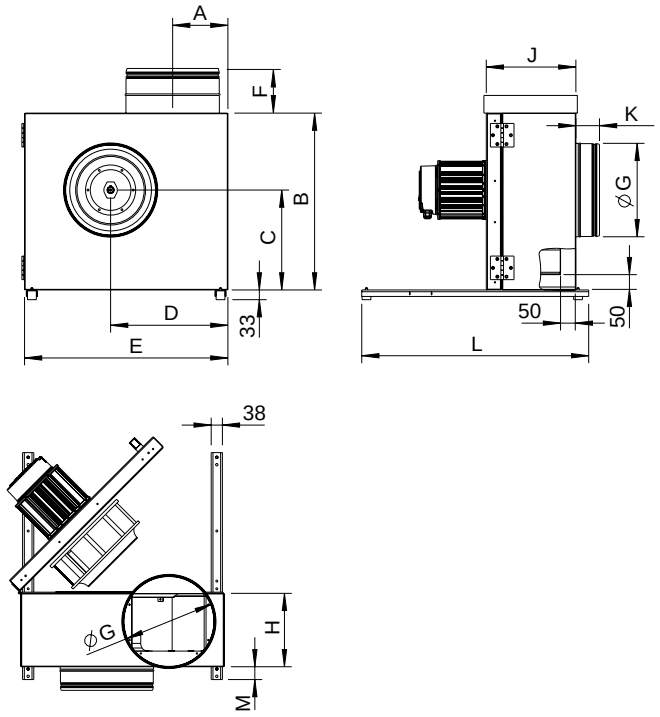


RT
Room Thermostat
Page 490

Quick selection



Dimensions

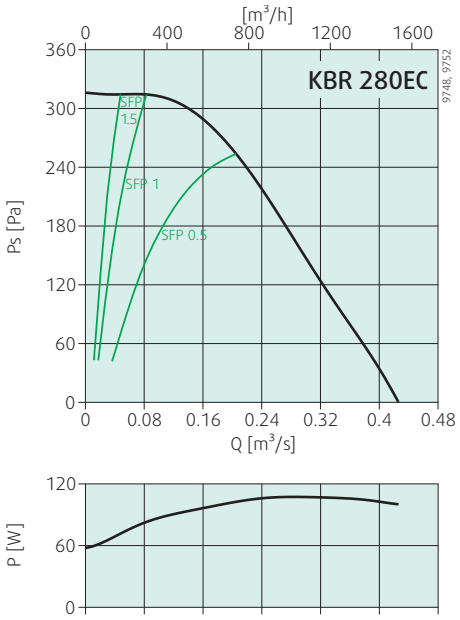


KBR EC	A	B	C	D	E	F	øG	H	J	K	L	M
KBR 280EC	171.5	537	295	360	625	125	280	234	291	70	620	55
KBR 315EC	187.5	600	339	398	690	125	315	249	307	70	770	55
KBR 355EC	206.7	655	372	451	770	125	355	273	331	70	770	55

Technical data

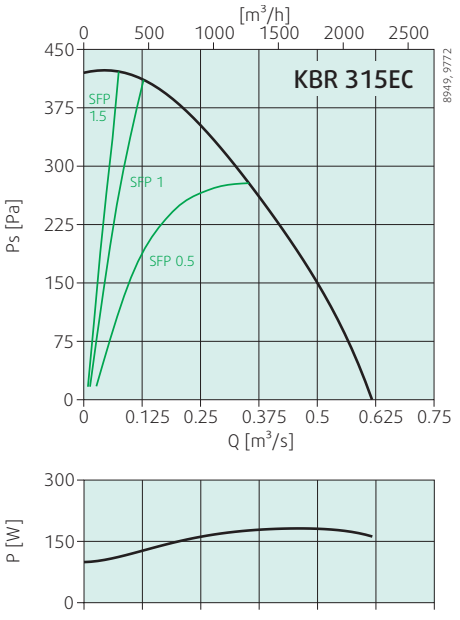
KBR EC		KBR 280EC	KBR 315EC	KBR 315EC-L	KBR 355EC	KBR 355EC-K	KBR 355EC-L
Art. no.		*33396*	*33397*	*33653*	*33400*	*33398*	*33665*
Voltage	V	230	230	230	230	230	400
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Phase	~	1	1	1	1	1	3
Input power (P1)	W	107	182	1268	498	296	2643
Current	A	0.502	0.772	5.53	2.17	1.3	4.04
Max. airflow	m^3/h	1534	2221	4032	3589	2959	6426
Fan impeller speed	r.p.m.	1512	1512	3025	1495	1514	2626
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	30	26	38	32	24	41
Sound pressure level at 10 m (free field)	dB(A)	22	18	30	24	16	33
Weight	kg	47	55	54	68	63	79
Insulation class		B	F	F	B	B	F
Enclosure class, motor	IP	55	55	55	55	55	55

Performance



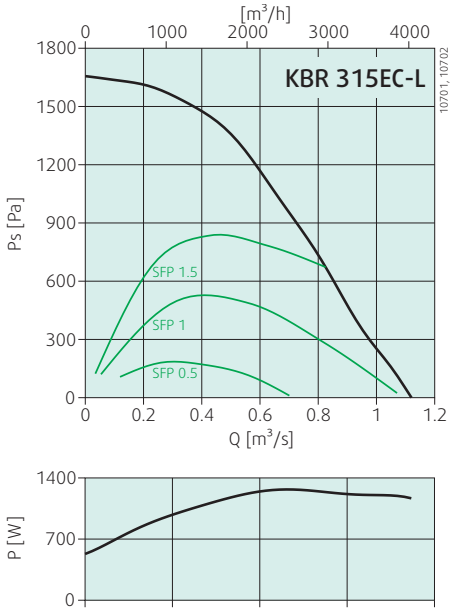
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	63	31	45	56	57	55	56	53	47
L_{wA} Outlet dB(A)	64	34	47	59	58	56	56	47	46
L_{wA} Surrounding dB(A)	53	28	41	47	39	43	41	50	31

Measurement point: 733 m³/h; 255 Pa



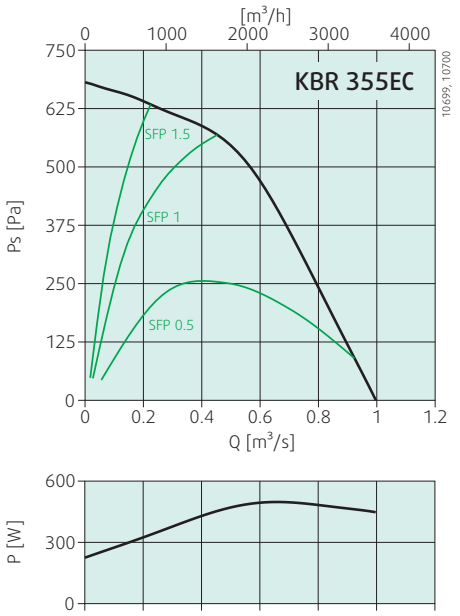
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	69	46	58	64	65	58	58	54	49
L_{wA} Outlet dB(A)	70	46	58	66	66	61	60	53	48
L_{wA} Surrounding dB(A)	49	16	39	45	39	44	36	34	25

Measurement point: 1054 m³/h; 324 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	87	63	74	76	85	74	75	72	67
L_{wA} Outlet dB(A)	90	64	72	75	88	81	80	71	66
L_{wA} Surrounding dB(A)	61	42	54	55	56	51	52	48	40

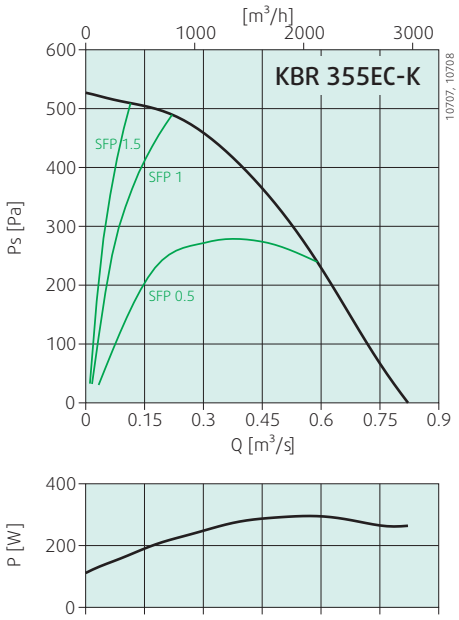
Measurement point: 2042 m³/h; 1238 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	55	65	69	69	64	61	60	55
L_{wA} Outlet dB(A)	76	60	65	74	68	66	61	59	54
L_{wA} Surrounding dB(A)	54	26	42	45	45	45	47	49	45

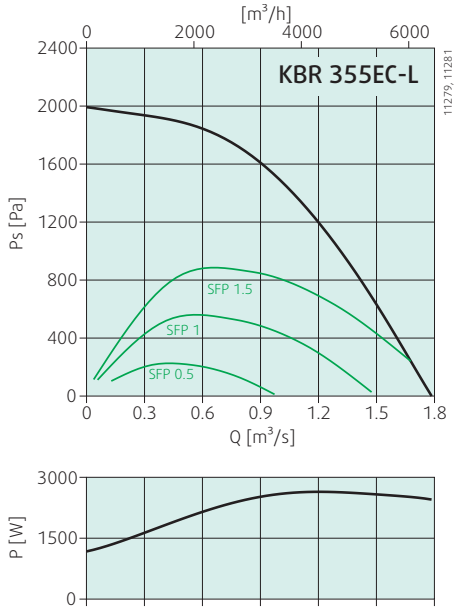
Measurement point: 1872 m³/h; 534 Pa

Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	71	60	62	63	67	61	61	57	51
L_{wA} Outlet dB(A)	71	56	59	65	66	63	59	54	49
L_{wA} Surrounding dB(A)	47	31	35	36	36	45	38	31	24

Measurement point: 1576 m³/h; 374 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	92	63	74	84	85	82	82	85	85
L_{wA} Outlet dB(A)	92	63	73	88	84	83	81	84	84
L_{wA} Surrounding dB(A)	64	28	46	58	56	56	56	57	54

Measurement point: 3627 m³/h; 1482 Pa

KBR

Thermo box



- Temperature of transported air up to 120 °C in continuous operation
- Low noise level
- Inspection door with impeller and motor for maintenance and cleaning work can be swung outwards completely
- Integrated protection plate to prevent grease or oil escaping

Casing
Double-skinned casing manufactured from galvanised steel with 50 mm mineral wool acoustic and thermal insulation (nonflammable in accordance with DIN 4102).

Motor
Voltage controllable IEC standard motors or frequency inverter controllable IE2 standard motors.

Impeller geometry
Radial impeller with backward curved blades made from galvanised sheet steel.

Output control
Speed controllable via voltage reduction with a transformer, 2-stage operation via star-delta switching, or controllable with a frequency converter.

Motor protection
Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



ASF/KB
Flex. connection
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ALS KBT
Drain plug
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WSD-KBT
Weather protection
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WBK
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T 120
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Presence detector
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DTV
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S-ET
Motor protection
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HR1
Room humidistat
Page 484



RT
Room thermostat
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U-EK230E
Motor protection
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REU
Speed control
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RTRE
Speed control
Page 484

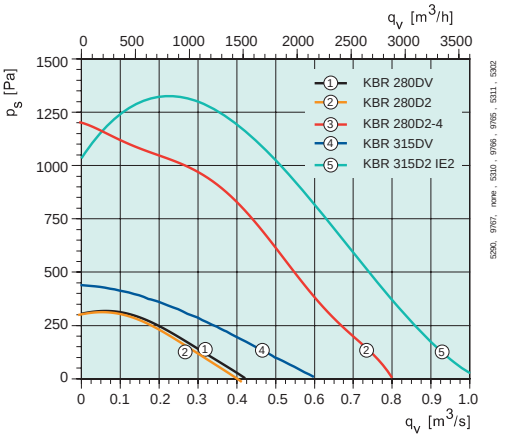


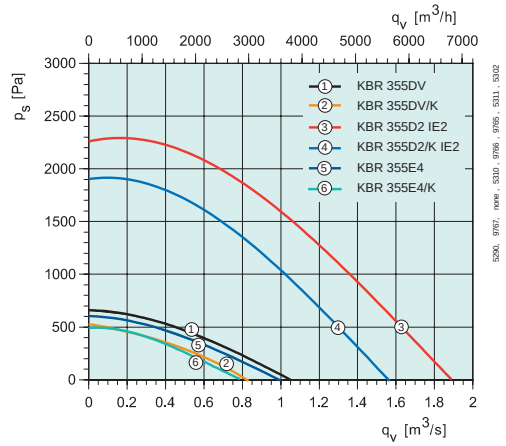
REV
Switching device
Page 510



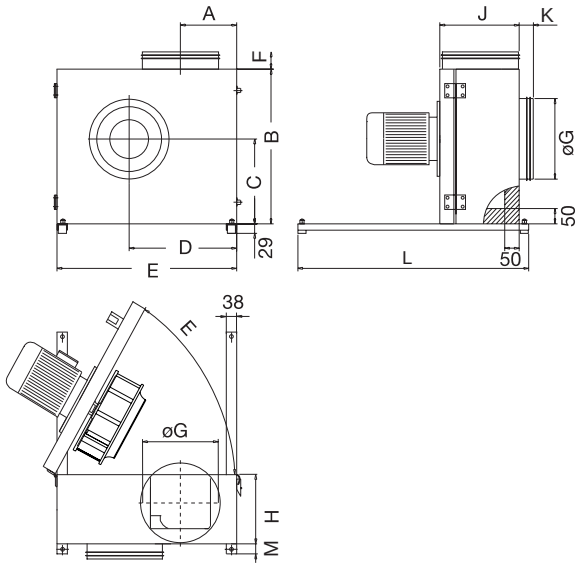
FRQ
Frequency inverter
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Quick selection





Dimensions



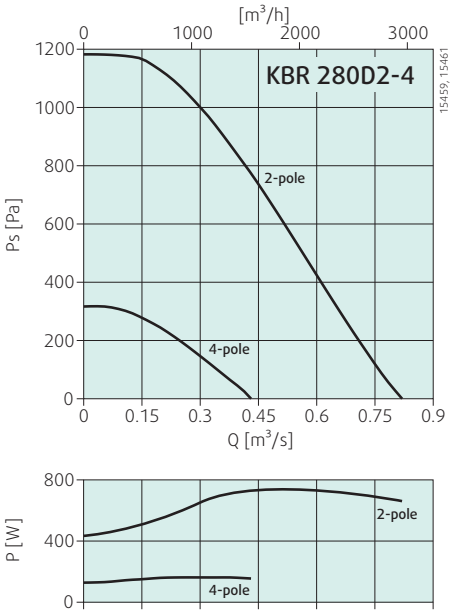
KBR	A	B	C	D	E	F	øG	H	J	K	L	M
KBR 280	171.5	537	295	360	625	125	280	234	291	70	620	55
KBR 315	187.5	600	339	398	690	125	315	249	307	70	770	55
KBR 355	206.7	655	372	451	770	125	355	273	331	70	770	55

Technical data

KBR		KBR 280D2	KBR 280D2-4	KBR 280DV	KBR 315D2 IE2	KBR 315DV	KBR 315E4
Art. no.		*31556*	*31555*	*31557*	*33559*	*5833*	*33749*
Voltage	V	400	400	400	400	400	230
Motor circuit connection		Y	Y/YY	D/Y	Y	D/Y	-
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	1
Input power (P1)	W	730	99.4	209	1225	244	251
Current	A	1.25	0.7	1.33	2.31	1.39	1.07
Starting current	A	11.4	-	4.6	22.4	4.6	4.9
Max. airflow	m^3/h	2966	1552	1548	4129	2200	2106
Fan impeller speed	r.p.m.	2820	1488	1476	2929	1360	1445
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	44	33	33	50	36	36
Sound pressure level at 10 m (free field)	dB(A)	36	25	25	42	28	28
Weight	kg	54	49	25	63	53	54
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	54	55	54	54

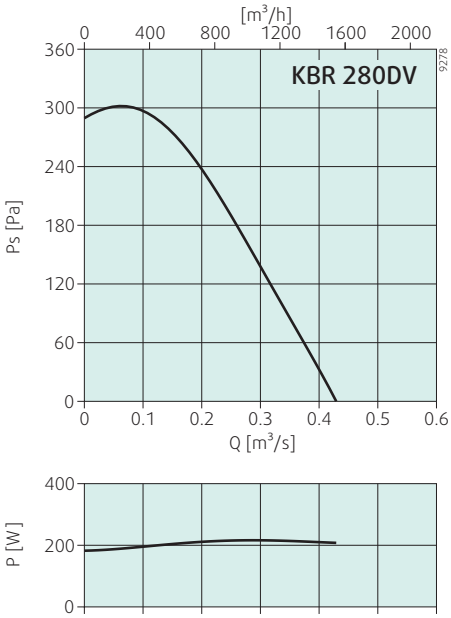
KBR		KBR 355D2 IE2	KBR 355D2/K IE2	KBR 355DV	KBR 355DV/K	KBR 355E4	KBR 355E4/K
Art. no.		*33560*	*33561*	*5835*	*5977*	*5980*	*5978*
Voltage	V	400	400	400	400	230	230
Motor circuit connection		D	Y	D/Y	D/Y	-	-
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	1	1
Input power (P1)	W	3670	2126	514	323	438	319
Current	A	6.16	3.72	1.38	1.39	2.1	2.1
Starting current	A	46.8	30.9	4.6	4.6	4.9	4.9
Max. airflow	m^3/h	7513	5828	3816	2952	3500	2800
Fan impeller speed	r.p.m.	2887	2899	1377	1434	1330	1330
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	53	53	41	41	41	41
Sound pressure level at 10 m (free field)	dB(A)	45	45	33	33	33	33
Weight	kg	78	77	64	64	66	66
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	55	54	54	54	54

Performance



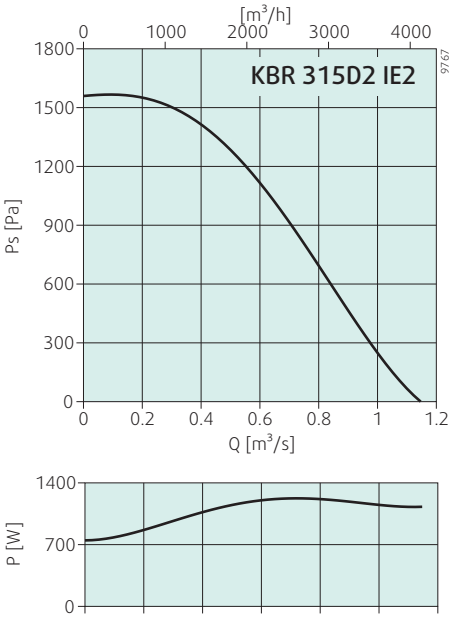
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	-	80	78	74	71	69	65	61
L_{wA} Outlet dB(A)	88	-	82	80	76	73	71	67	61
L_{wA} Surrounding dB(A)	67	-	61	59	55	52	50	46	42

Measurement point: 1440 m³/h; 851 Pa



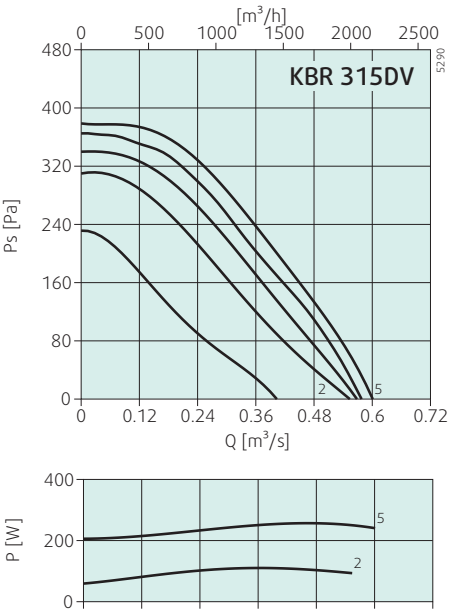
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	–	68	66	62	59	57	53	49
L_{wA} Outlet dB(A)	76	–	70	68	64	61	59	55	51
L_{wA} Surrounding dB(A)	56	–	50	48	44	41	39	35	31

Measurement point: 756 m³/h; 224 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	91	-	89	88	83	81	77	71	68
L_{wA} Outlet dB(A)	93	-	91	90	85	83	79	73	70
L_{wA} Surrounding dB(A)	73	-	71	70	65	63	59	53	50

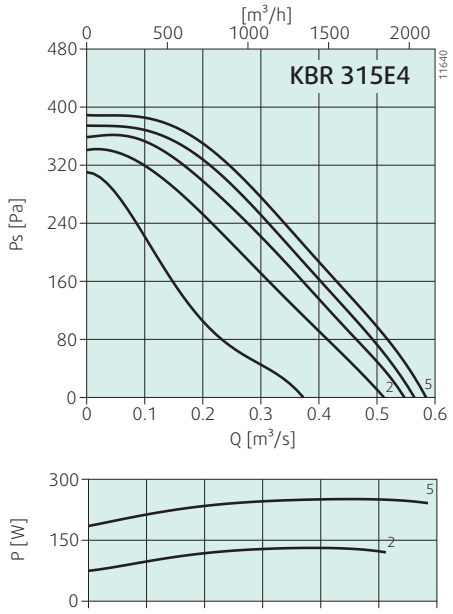
Measurement point: 1656 m³/h; 1276 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	–	75	74	69	67	63	57	54
L_{wA} Outlet dB(A)	79	–	77	76	71	68	65	59	56
L_{wA} Surrounding dB(A)	59	–	57	56	51	49	45	39	36

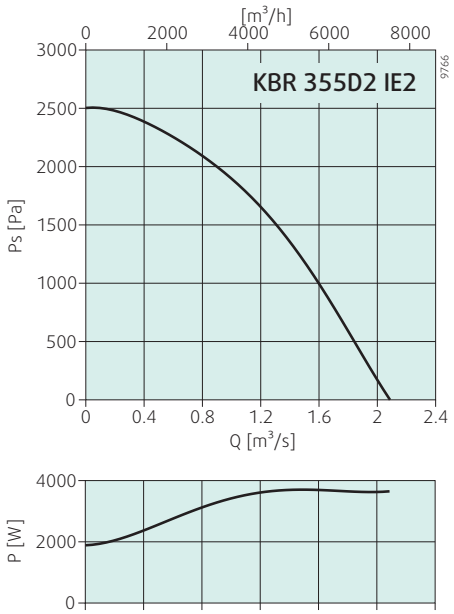
Measurement point: 1080 m³/h; 286 Pa

Performance



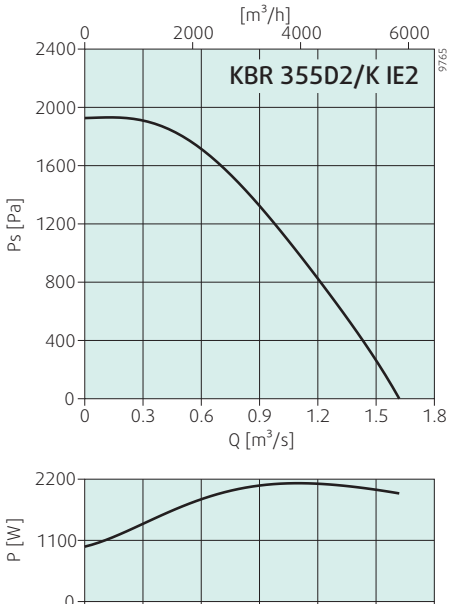
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	-	75	74	69	67	63	57	54
L_{wA} Outlet dB(A)	79	-	77	76	71	68	65	59	56
L_{wA} Surrounding dB(A)	59	-	57	56	51	49	45	39	36

Measurement point: 1368 m³/h; 250 Pa



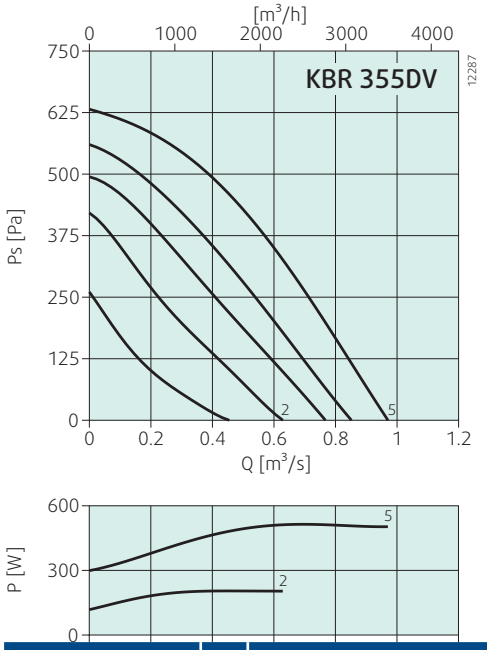
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	-	92	91	86	84	80	74	71
L_{wA} Outlet dB(A)	96	-	94	93	88	86	82	76	73
L_{wA} Surrounding dB(A)	76	-	74	73	68	66	62	56	53

Measurement point: 2988 m³/h; 1800 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	-	92	91	86	84	80	74	71
L_{wA} Outlet dB(A)	96	-	94	93	88	86	82	76	73
L_{wA} Surrounding dB(A)	76	-	74	73	68	66	62	56	53

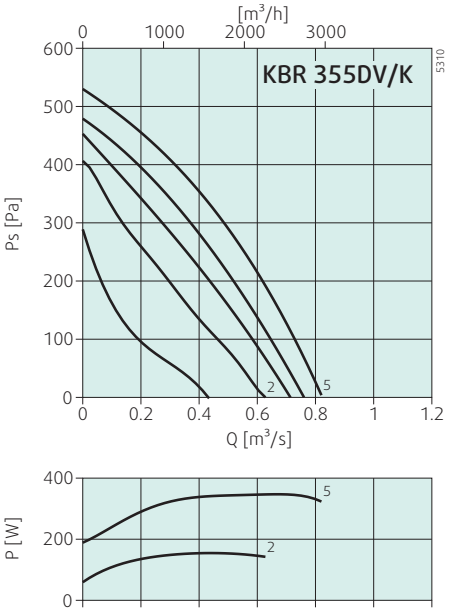
Measurement point: 2592 m³/h; 1431 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	–	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	–	62	61	56	54	50	44	41

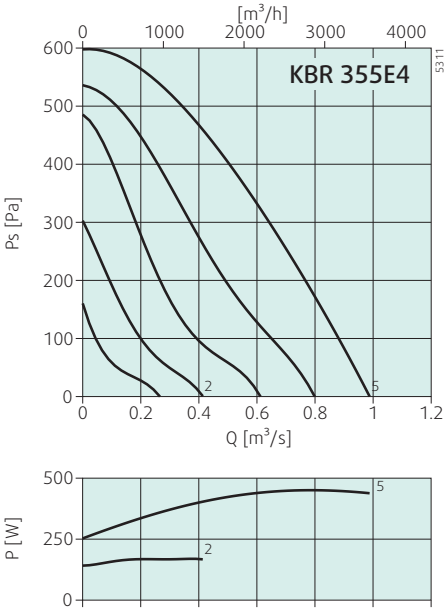
Measurement point: 2484 m³/h; 320 Pa

Performance



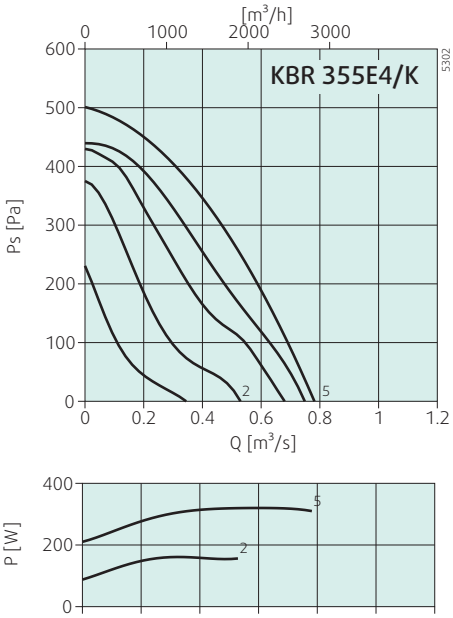
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	-	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	-	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	-	62	61	56	54	50	44	41

Measurement point: 1152 m³/h, Ps = 398 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	–	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	–	62	61	56	54	50	44	41

Measurement point: 1512 m³/h; 465 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	–	78	74	71	67	65	61	57
L_{wA} Outlet dB(A)	82	–	80	76	73	69	67	63	59
L_{wA} Surrounding dB(A)	62	–	60	56	53	49	47	43	39

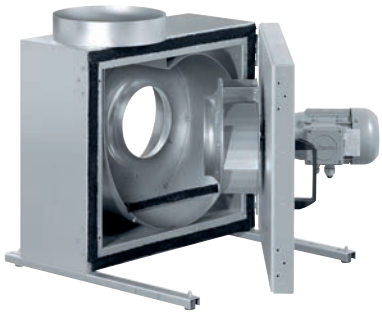
Measurement point: 1512 m³/h; 320 Pa



Reference: Hotel l'Arrivée, Dortmund, Germany

KBR/F

Thermo box



- Temperature of transported air up to 400°C for 120 minutes
- Temperature of transported air up to 200 °C in continuous operation
- Voltage controllable via frequency converter
- Inspection door for maintenance and cleaning work

Casing
Casing from galvanised steel. 50 mm mineral wool acoustic and thermal insulation.

Motor
Voltage controllable IEC standard motor or frequency inverter controllable IE2 standard motor.

Impeller geometry
Radial impeller with backward curved blades manufactured from galvanized steel.

Output control
Voltage reduction with a transformer, 2-stage operation via star-delta switching, or controllable with a frequency inverter.

Motor protection
Integrated PTC thermistors with pre-attached cables for connection to a motor protection switching device.

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EVH
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FXDM
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REU
Speed control
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RTRE
Speed control
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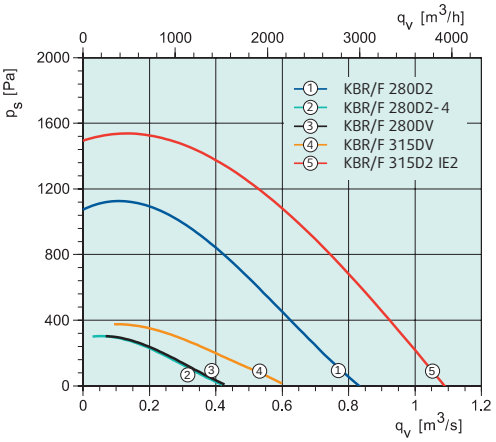


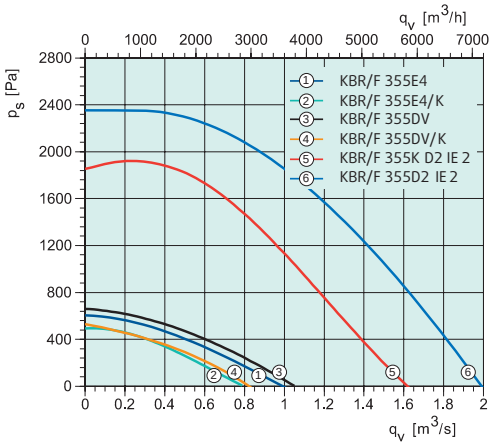
RTRD / RTRDU
Speed control
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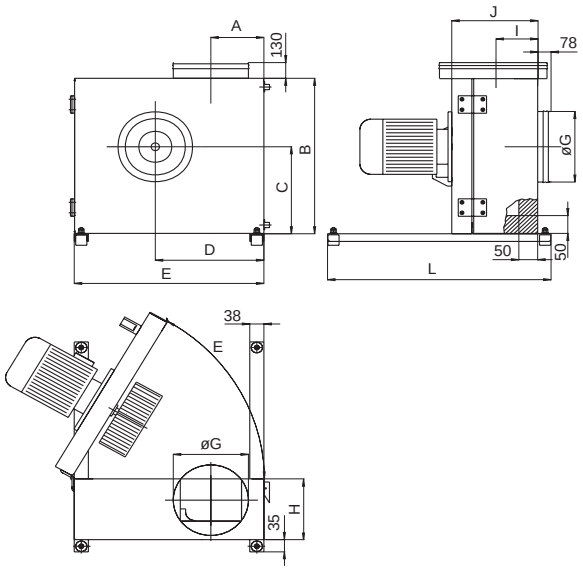
REV
Switching device
Page 510

Quick selection





Dimensions



KBR/F	A	B	C	D	E	øG	H	I	J	L
KBR/F 280	171.5	537	295	360	625	280	234	142.5	291	620
KBR/F 315	187.5	600	339	398	690	315	249	153.5	307	800
KBR/F 355	206.7	655	372	451	770	355	273	–	331	770

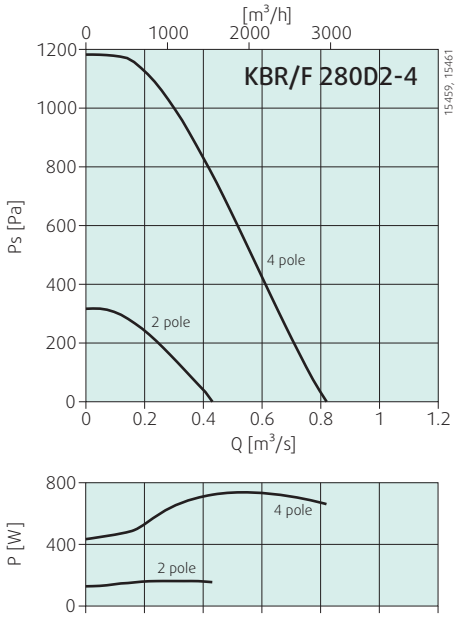
Technical data

KBR/F		KBR/F 280D2	KBR/F 280D2-4	KBR/F 280DV	KBR/F 315DV	KBR/F 315D2 IE2	KBR/F 355E4
Art. no.		*31586*	*31588*	*31587*	*31590*	*34509*	*31554*
Voltage	V	400	400	400	400	400	230
Motor circuit connection		Y	Y/YY	D/Y	D/Y	Y	
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	3	3	3	1
Input power (P1)	W	730	783/99.4	209	244	1218	438
Current	A	1.24	1.2/0.7	1.39	1.39	2.33	2.1
Starting current	A	11.4	-	4.6	4.6	22.4	4.9
Max. airflow	m^3/h	2966	2952/1552	1520	2200	3913	3500
Fan impeller speed	r.p.m.	2820	2796/1488	1360	1360	2928	1330
Max. temperature of transported air	°C	200	200	200	200	200	200
Max. temp. of transported air for 120 min	°C	400	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	44	44/33	33	36	50	44
Sound pressure level at 10 m (free field)	dB(A)	36	36/25	25	28	42	33
Weight	kg	53	58	54	62.5	66	81
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	55	54	54	54	54

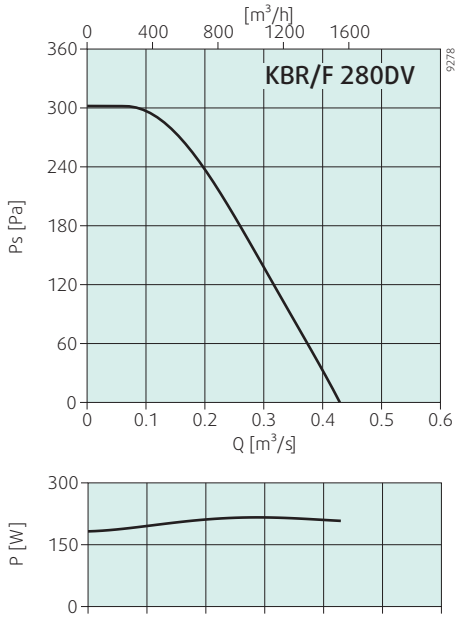
KBR/F		KBR/F 355E4/K	KBR/F 355DV	KBR/F 355DV/K	KBR/F 355D2/K IE2	KBR/F 355D2 IE2
Art. no.		*32891*	*31594*	*31592*	*34511*	*34510*
Voltage	V	230	400	400	400	400
Frequency	Hz	50	50	50	50	50
Phase	~	1	3	3	3	3
Input power (P1)	W	319	550 *	323	2141	3641
Current	A	2.1	1.88	1.88	3.85	5.95
Starting current	A	4.9	6.4	6.4	30.9	46.8
Max. airflow	m^3/h	2800	3800	2900	5861	7204
Fan impeller speed	r.p.m.	1330	1360	1360	2909	2889
Max. temperature of transported air	°C	200	200	200	200	200
Max. temp. of transported air for 120 min	°C	400	400	400	400	400
Sound pressure level at 4 m (free field)	dB(A)	42	41	41	53	53
Sound pressure level at 10 m (free field)	dB(A)	31	33	33	45	45
Weight	kg	81	83	83	79	87
Insulation class		F	F	F	F	F
Enclosure class, motor	IP	54	54	54	55	54

* Nominal power at shaft (P2)

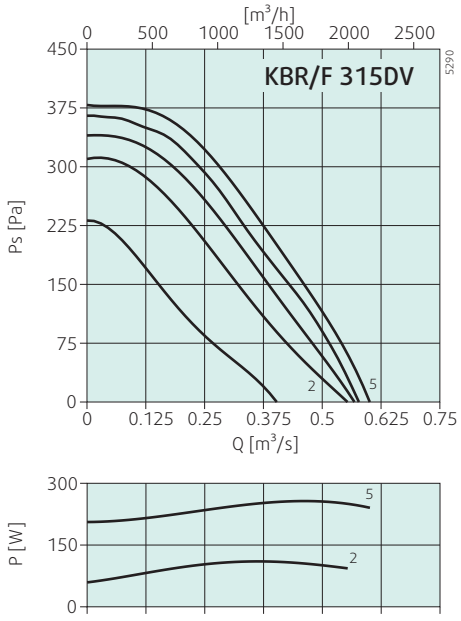
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
2-polig									
L_{wA} Inlet dB(A)	86	80	78	74	71	69	65	61	
L_{wA} Outlet dB(A)	88	82	80	76	73	71	67	61	
L_{wA} Surrounding dB(A)	67	61	59	55	52	50	46	42	
Measurement point: 1512 m³/h; 800 Pa									
4-polig									
L_{wA} Inlet dB(A)	74	68	66	62	59	57	53	49	
L_{wA} Outlet dB(A)	76	70	68	64	61	59	55	51	
L_{wA} Surrounding dB(A)	56	50	48	44	41	39	35	31	
Measurement point: 792 m³/h; 220 Pa									

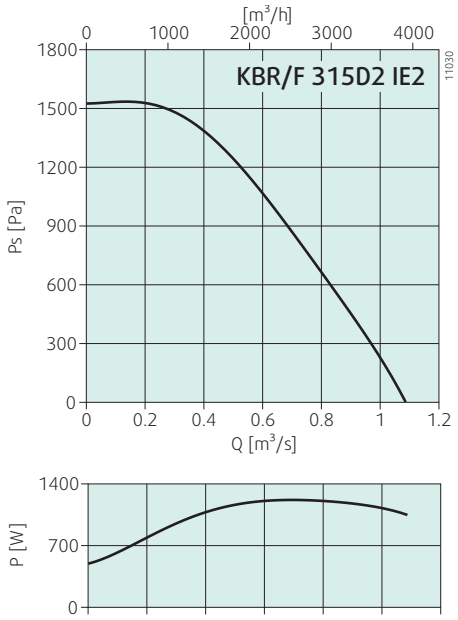


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	74	71	68	66	62	59	57	53	49
L_{wA} Outlet dB(A)	76	73	70	68	64	61	59	55	51
L_{wA} Surrounding dB(A)	56	53	50	48	44	41	39	35	31
Measurement point: 720 m³/h; 220 Pa									



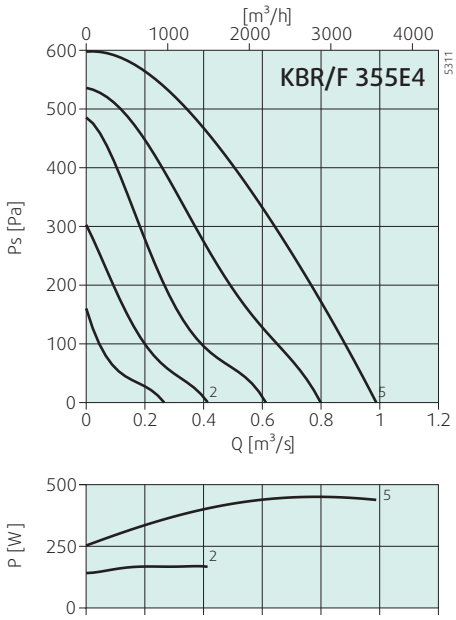
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	77	–	75	74	69	67	63	57	54
L_{wA} Outlet dB(A)	79	–	77	76	71	68	65	59	56
L_{wA} Surrounding dB(A)	59	–	57	56	51	49	45	39	36
Measurement point: 1368 m³/h; 250 Pa									

Performance



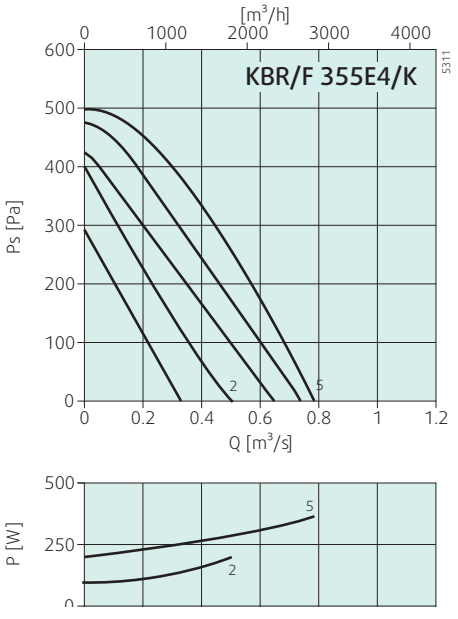
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	91	-	89	88	83	81	77	71	68
L_{wA} Outlet dB(A)	93	-	90	90	85	83	79	73	70
L_{wA} Surrounding dB(A)	73	-	70	70	65	63	59	53	50

Measurement point: 1656 m³/h; 1276 Pa



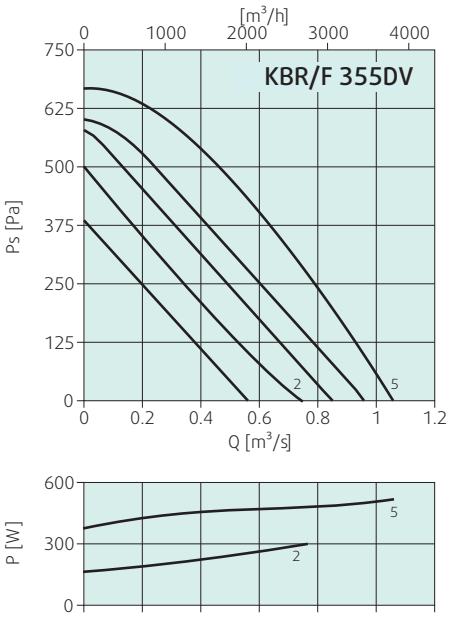
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	–	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	–	62	61	56	54	50	44	41

Measurement point: 1512 m³/h; 465 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	80	–	78	74	71	67	65	61	57
L_{wA} Outlet dB(A)	82	–	80	76	73	69	67	63	59
L_{wA} Surrounding dB(A)	62	–	60	56	53	49	47	43	39

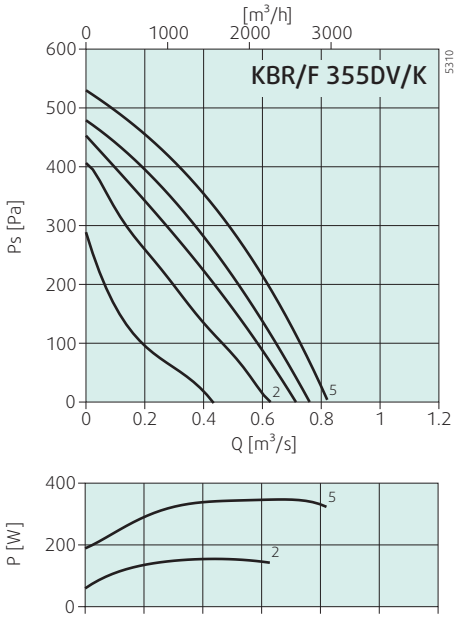
Measurement point: 1512 m³/h; 320 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	–	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	–	62	61	56	54	50	44	41

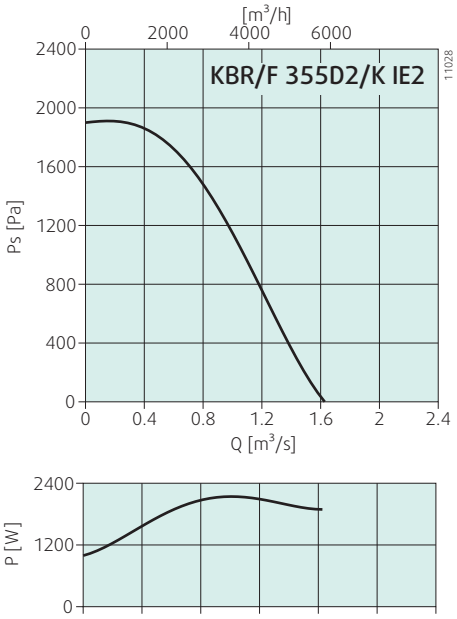
Measurement point: 2484 m³/h; 320 Pa

Performance



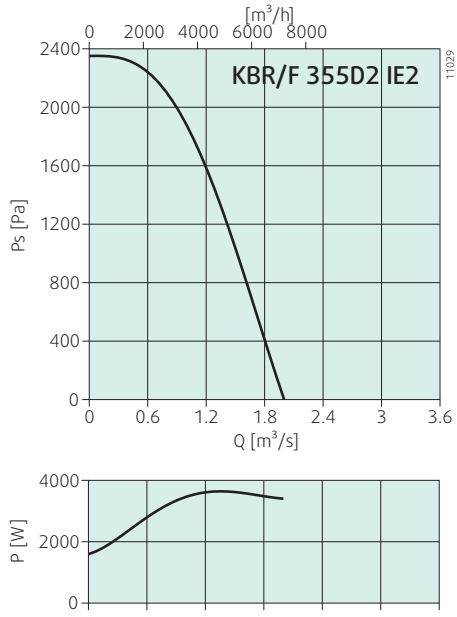
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	–	80	79	74	72	68	62	59
L_{wA} Outlet dB(A)	84	–	82	81	76	74	70	64	61
L_{wA} Surrounding dB(A)	64	–	62	61	56	54	50	44	41

Measurement point: 1152 m³/h; 398 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	94	-	92	91	86	84	80	74	71
L_{wA} Outlet dB(A)	96	-	94	93	88	86	82	76	73
L_{wA} Surrounding dB(A)	76	-	74	73	68	66	62	56	53

Measurement point: 2592 m³/h; 1431 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	97	-	92	91	86	84	80	74	71
L_{wA} Outlet dB(A)	96	-	94	93	88	86	82	76	73
L_{wA} Surrounding dB(A)	76	-	74	73	68	66	62	56	53

Measurement point: 2988 m³/h; 1800 Pa



Reference: Montabaur Castle, Germany

AxZent EC



- For harsh environments: motor outside the airstream, temperature of transported air up to 120 °C
- Elegant in-line solution: can be easily integrated into the duct system
- Simple to maintain: easy access to the fan unit
- For industrial applications such as process exhaust gas, commercial kitchens and similar application areas

Casing
The casing is manufactured from pre-galvanised steel. The pressed-on flanges in accordance with Eurovent 1/2 provide additional stability.

Motor
Energy-saving, highly efficient EC external rotor motors.

Impeller geometry
Optimised and highly efficient backward curved high density impellers made from aluminium for optimum efficiency.

Output control
100 % controllable via a 0-10 V signal.

Motor protection
The motor protection is integrated in the motor electronics.

You can find more information in our online catalogue on www.systemair.com

Accessories



ESD-F
Inlet flange
Page 562



EVH
Flex. connection
Page 563



FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK(F)
Autom. shutter
Page 561



MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



MPR AXC
Mounting ring
Page 559



SG AXC
Protection guard
Page 557



ZSD
Spring damper
Page 560

Electrical accessories



CO2RT
Transmitter
Page 501



CXE/AVC
Digital regulator
Page 499



EC-Vent/Basic
Control unit
Page 485



HR1
Room humidistat
Page 484



MTP
Speed control
Page 484



MTV
Speed control
Page 487

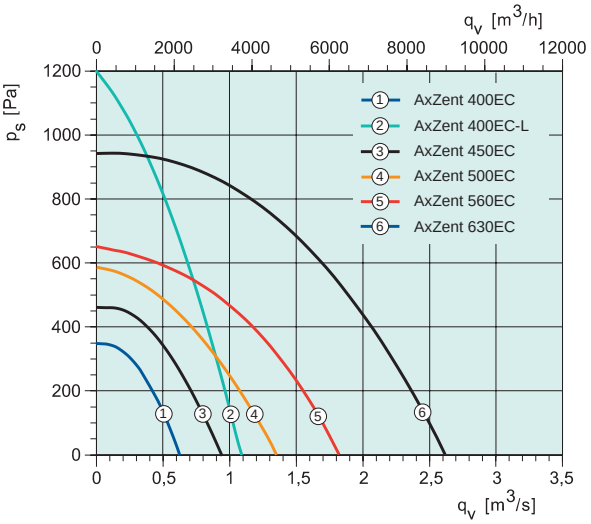


REV
Switching device
Page 510

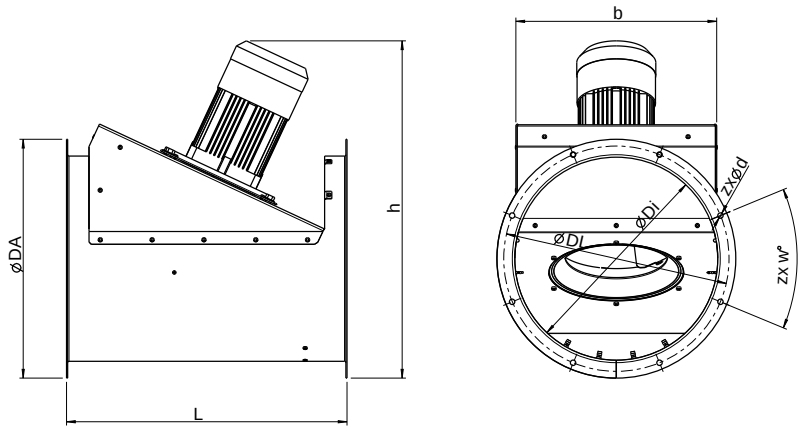


RT
Room thermostat
Page 490

Quick selection



Dimensions



AxZent EC	L	ØDA	h	b	ØDi	ØDl	zx w°	zx Ød
400EC	585.7	480	637.5	391.7	400.5	450	8x45°	8xØ12
400EC-L	585.7	480	637.5	391.7	400.5	450	8x45°	8xØ12
450EC	622.5	530	662.9	445.7	450.5	500.4	8x45°	8xØ12
500EC	720	590	727.7	495.7	500.5	560	12x30°	12xØ12
560EC	795	650	815	558	560.5	620	12x30°	12xØ12
630EC	825	720	898	629.7	630.5	690	12x30°	12xØ12

Dimensions in mm.

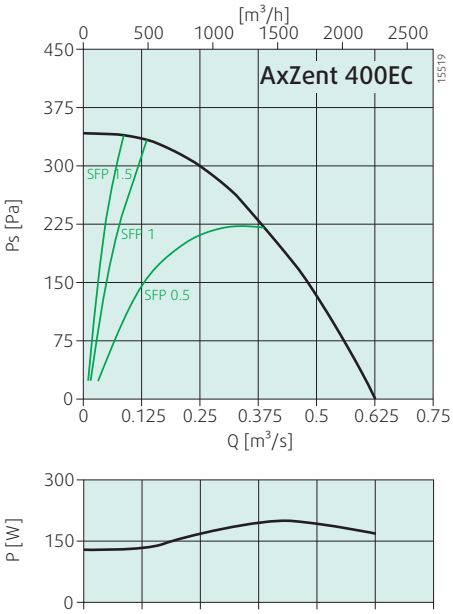
Technical data

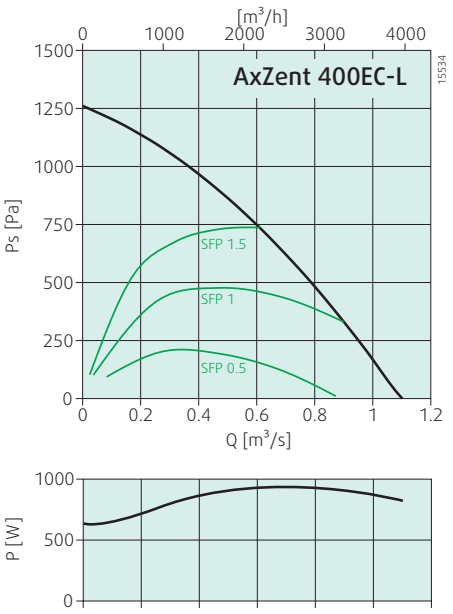
AxZent EC		AxZent 400EC	AxZent 400EC-L	AxZent 450EC	AxZent 500EC	AxZent 560EC	AxZent 630EC
Art. no.		*37748*	*38396*	*37749*	*37750*	*37751*	*37752*
Voltage	V	230	400	230	230	400	400
Frequency	Hz	50	50	50	50	50	50
Phase	~	1	3	1	1	3	3
Input power (P1)	W	198	935	373	648	980	2006
Current	A	0.86	1.56	1.61	2.71	1.6	2.95
Max. airflow	l/s	626	728	724	998	1287	2606
Fan impeller speed	r.p.m.	1512	2624	1509	1454	1410	1505
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 10 m (free field) [1]	dB(A)	-	-	-	-	-	-
Weight	kg	34.5	35	39	53.5	69	94.5
Insulation class		B	B	B	B	B	F
Enclosure class, motor	IP	55	55	55	55	55	55

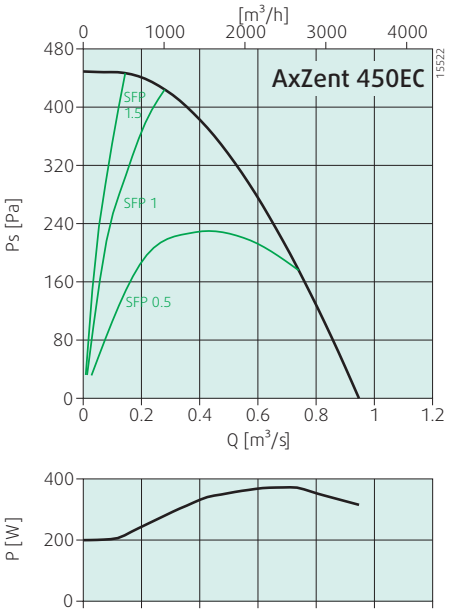
[1] Sound pressure level see online catalogue on www.systemair.com

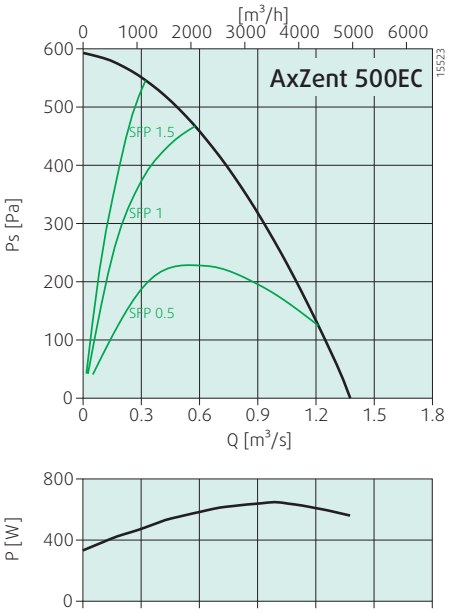


Performance





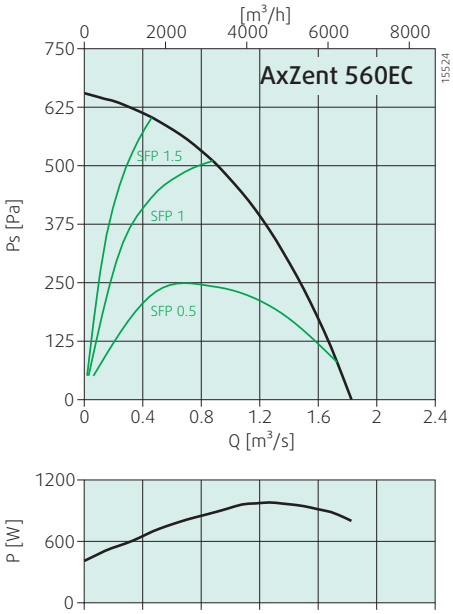


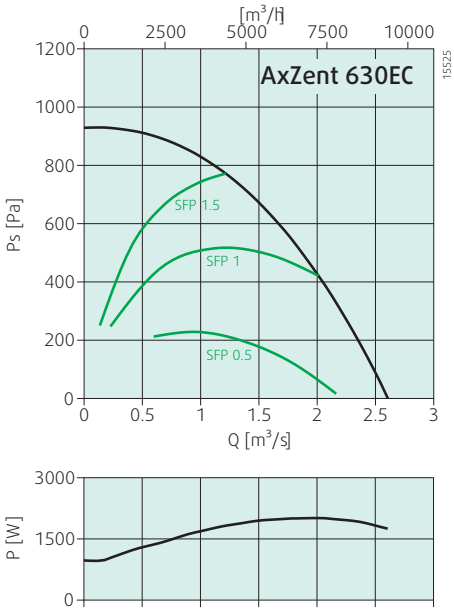


(1) Sound pressure level see online catalogue on www.systemair.com



Performance





AxZent



IE2 2009/640/EG

120°C

NEW!

- For harsh environments: motor outside the airstream, temperature of transported air up to 120 °C
- Elegant in-line solution: can be easily integrated into the duct system
- Simple to maintain: easy access to the fan unit
- For industrial applications such as process exhaust air, commercial kitchens and similar application areas

Casing
The casing is made from pre-galvanised steel.
The pressed-on flanges in accordance with Eurovent 1/2 provide additional stability.

Motor
Depending on the version, equipped with voltage controllable IEC standard motors (DV and E4) or frequency inverter controllable IE2 standard motors (D4 and IE2).

Impeller geometry
Optimised and highly efficient backward curved impellers made from aluminium for optimum efficiency.

Output control
Speed controllable via voltage reduction using a transformer, or controllable with a frequency inverter.

Motor protection
Integrated thermal contacts or PTC thermistors with cables for connection to a motor protection switching device.

You can find more information in our online catalogue on www.systemair.com

Accessories



ESD-F
Inlet flange
Page 562



EVH AXC
Flex. connection
Page 563



FSD-AXC
Spring damper
Page 560



GFL-AR/AXC
Counterflange
Page 562



LRK(F)
Autom. shutter
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MFA-AR/AXC
Mounting feet
Page 558



RSA(F)
Silencer
Page 556



MPR AXC
Mounting ring
Page 559



SG AXC
Protection guard
Page 557



ZSD
Spring damper
Page 560

Electrical accessories



STDT
Motor protection
Page 501



S-DT2 SKT
Speed switch
Page 480



RTRD / RTRDU
Speed control
Page 485



RTRE
Speed control
Page 484



REU
Speed control
Page 484



REE
Speed control
Page 487

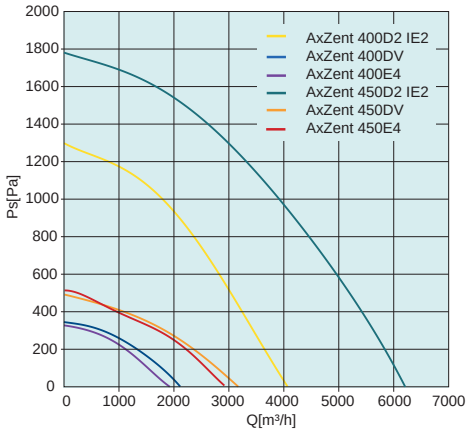


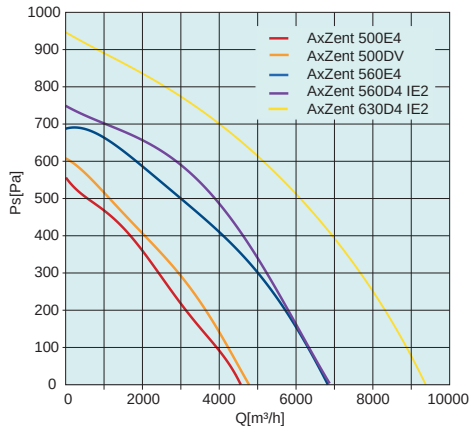
REV
Switching device
Page 510



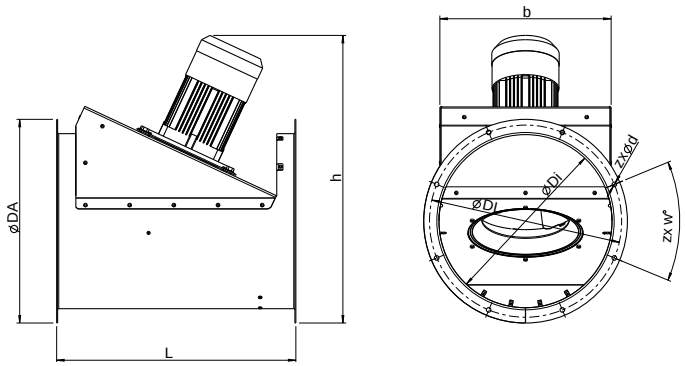
FRQ
Frequency inverter
Page 490

Quick selection





Dimensions



AxZent	L	ØDA	h	b	ØDi	ØDl	zx w°	zx Ød
400D2 IE2	586	480	723	392	401	450	8x45°	8xØ12
400DV	586	480	638	392	401	450	8x45°	8xØ12
400E4	586	480	654	392	401	450	8x45°	8xØ12
450D2 IE2	623	530	748	446	451	500	8x45°	8xØ12
450DV	623	530	663	446	451	500	8x45°	8xØ12
450E4	623	530	679	446	451	500	8x45°	8xØ12
500DV	720	590	728	496	501	560	12x30°	12xØ12
500E4	720	590	744	496	501	560	12x30°	12xØ12
560D4 IE2	795	650	815	558	561	620	12x30°	12xØ12
560E4	795	650	815	558	561	620	12x30°	12xØ12
630D4 IE2	825	720	898	630	631	690	12x30°	12xØ12

Dimensions in mm.

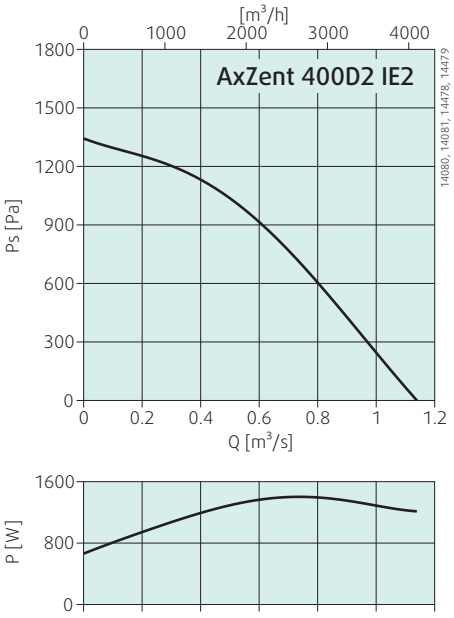
Technical data

AxZent		400D2 IE2	400DV	400E4	450D2 IE2	450DV	450E4
Art. no.		*37077*	*37078*	*37076*	*37080*	*37081*	*37079*
Voltage	V	400	400	230	400	400	230
Motor circuit connection		Y	D/Y	-	Y	D/Y	-
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	3	1	3	3	1
Input power (P1)	W	1402	207	232	2574	277	373
Current	A	2.63	1.35	1.18	4.26	1.3	1.57
Max. airflow	m^3/h	4100	2182	1980	6210	3103	2930
Fan impeller speed	r.p.m.	2892	1487	1443	2887	1470	1396
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	49.8	37.7	34.3	57.4	36	33.2
Weight	kg	42.9	34.3	34.5	51.2	39.1	40.4
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	55	54	54	55	54	54
Capacitor	µF	-	-	8	-	-	12

AxZent		500DV	500E4	560D4 IE2	560E4	630D4 IE2	630E4
Art. no.		*37083*	*37082*	*37166*	*37165*	*37167*	*37240*
Voltage	V	400	230	400	230	400	230
Motor circuit connection		D/Y	-	Y	-	Y	-
Frequency	Hz	50	50	50	50	50	50
Phase	~	3	1	3	1	3	3
Input power (P1)	W	672	577	1145	1166	1972	2199
Current	A	1.45	2.38	2.11	5.05	3.56	9.46
Max. airflow	m^3/h	4874	4518	6901	6746	9378	9284
Fan impeller speed	r.p.m.	1356	1265	1416	1389	1423	1425
Max. temperature of transported air	°C	120	120	120	120	120	120
Sound pressure level at 4 m (free field)	dB(A)	41	37.8	44.1	48.4	61	64.5
Weight	kg	50.5	51.6	70	72.1	85.7	72
Insulation class		F	F	F	F	F	F
Enclosure class, motor	IP	54	54	55	54	55	54
Capacitor	µF	-	12	-	30	-	50

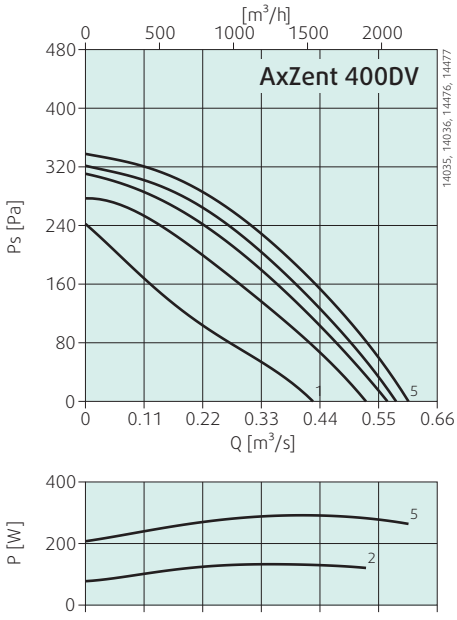


Performance



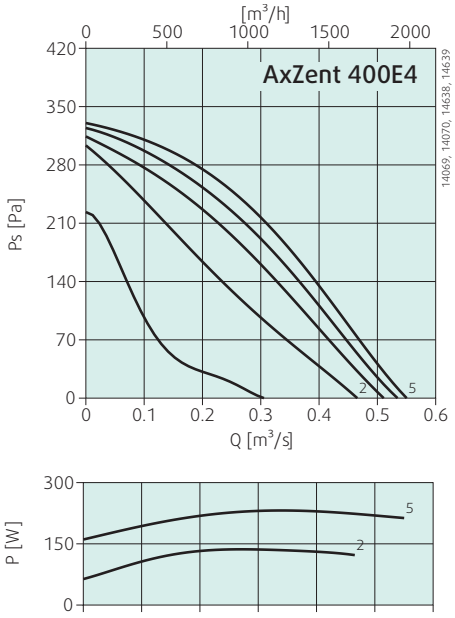
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	90	68	76	88	83	76	74	74	71
L_{wA} Outlet dB(A)	94	73	75	91	88	85	80	77	74
L_{wA} Surrounding dB(A)	73	37	51	65	67	67	66	62	56

Measurement point: 1955 m³/h; 987 Pa



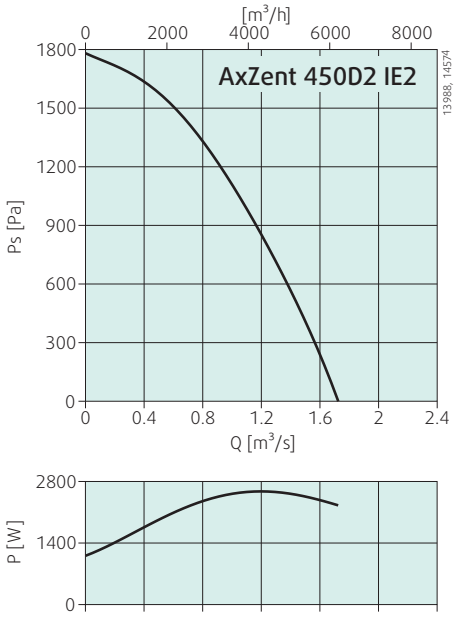
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	52	74	67	73	60	63	61	53
L_{wA} Outlet dB(A)	74	53	70	67	66	65	65	63	54
L_{wA} Surrounding dB(A)	61	24	51	46	57	55	51	44	34

Measurement point: 1066 m³/h; 248 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	72	52	69	68	62	59	59	56	49
L_{wA} Outlet dB(A)	74	52	70	67	65	65	62	58	51
L_{wA} Surrounding dB(A)	57	19	41	49	54	52	47	41	30

Measurement point: 1039 m³/h; 225 Pa

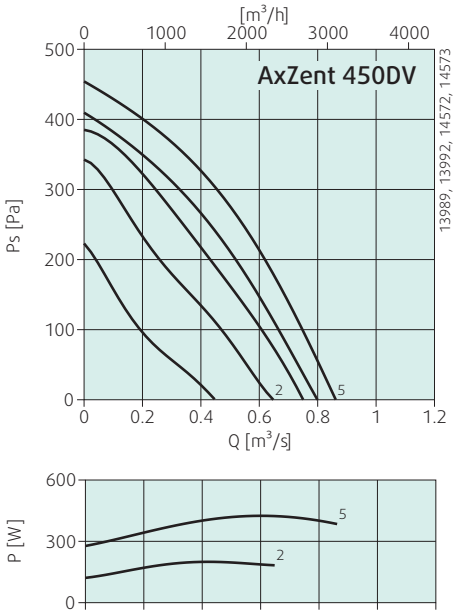


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	98	74	83	97	87	82	81	78	73
L_{wA} Outlet dB(A)	96	70	83	93	89	87	83	80	74
L_{wA} Surrounding dB(A)	80	60	68	78	70	70	70	69	62

Measurement point: 2548 m³/h; 1419 Pa

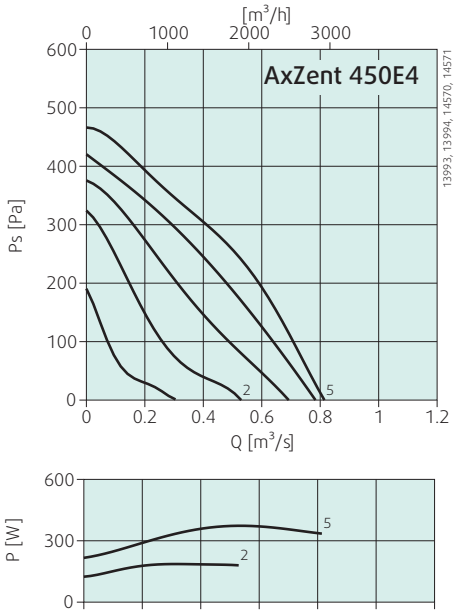


Performance



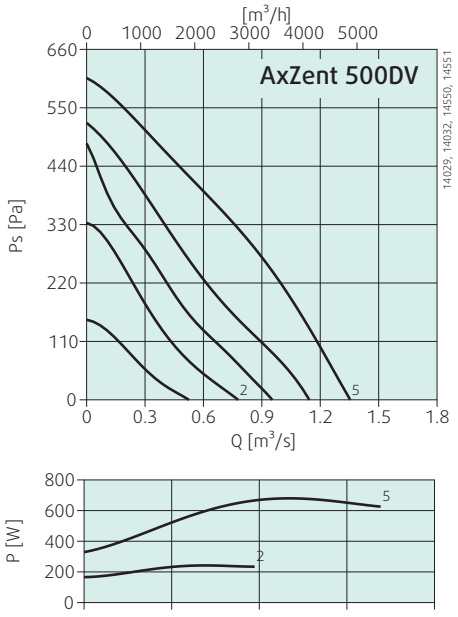
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	55	72	71	68	63	63	59	54
L_{wA} Outlet dB(A)	76	55	71	69	69	68	65	61	56
L_{wA} Surrounding dB(A)	59	30	49	54	53	51	50	44	36

Measurement point: 1860 m³/h; 266 Pa



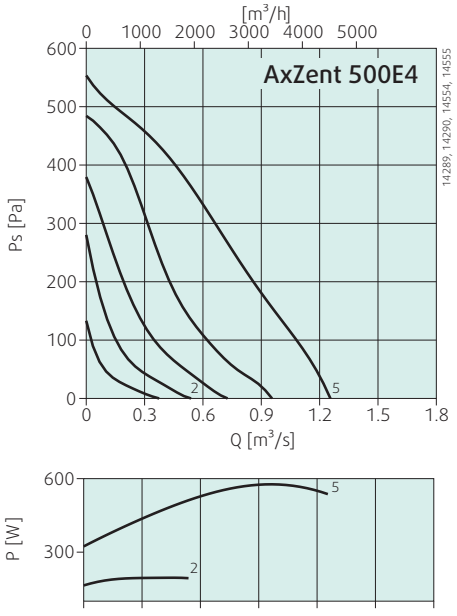
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	76	57	73	71	67	62	62	58	52
L_{wA} Outlet dB(A)	76	55	72	70	69	68	64	60	54
L_{wA} Surrounding dB(A)	56	29	52	50	8	46	47	38	28

Measurement point: 1644 m³/h; 279 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	81	60	79	72	71	68	67	64	55
L_{wA} Outlet dB(A)	83	58	80	75	75	74	71	68	59
L_{wA} Surrounding dB(A)	64	38	57	62	55	51	47	43	33

Measurement point: 2718 m³/h; 332 Pa

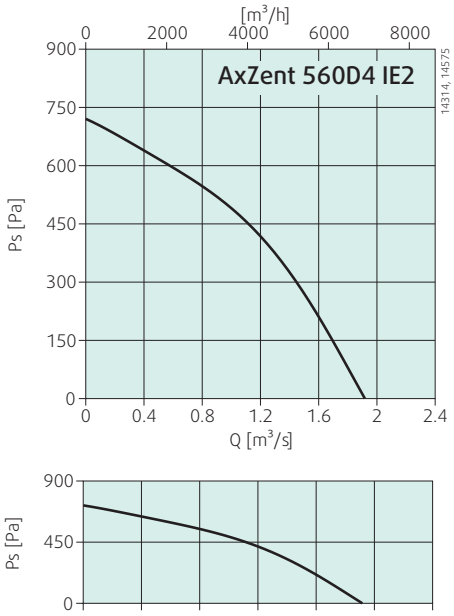


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	79	62	77	70	69	65	65	60	51
L_{wA} Outlet dB(A)	80	58	78	71	72	70	68	63	54
L_{wA} Surrounding dB(A)	61	42	56	56	51	49	47	45	31

Measurement point: 2122 m³/h; 338 Pa

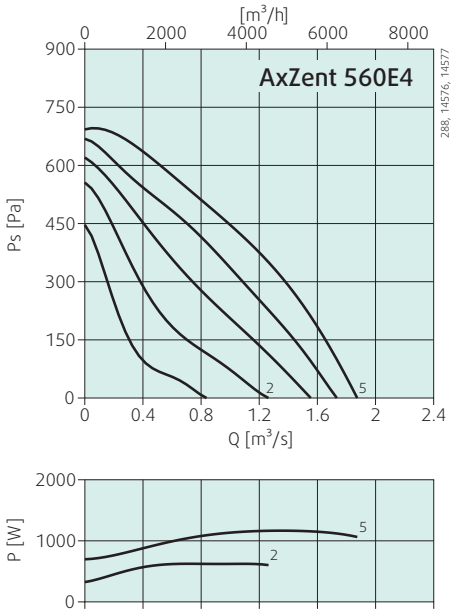


Performance



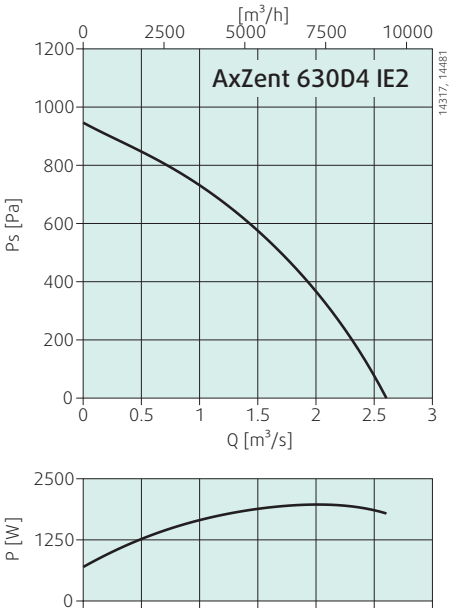
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	84	62	82	77	73	72	71	67	61
L_{wA} Outlet dB(A)	87	58	84	76	77	77	73	69	63
L_{wA} Surrounding dB(A)	67	41	63	59	59	59	58	47	39

Measurement point: 3712 m³/h; 480 Pa



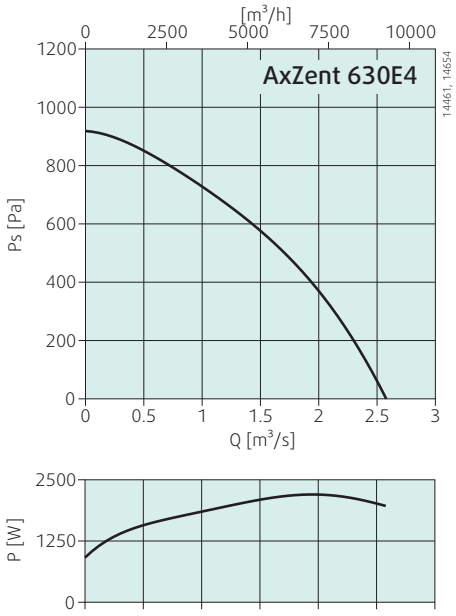
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	82	61	79	75	72	72	70	66	61
L_{wA} Outlet dB(A)	84	59	78	76	78	78	72	68	63
L_{wA} Surrounding dB(A)	72	43	62	67	60	67	62	53	44

Measurement point: 4049 m³/h; 404 Pa



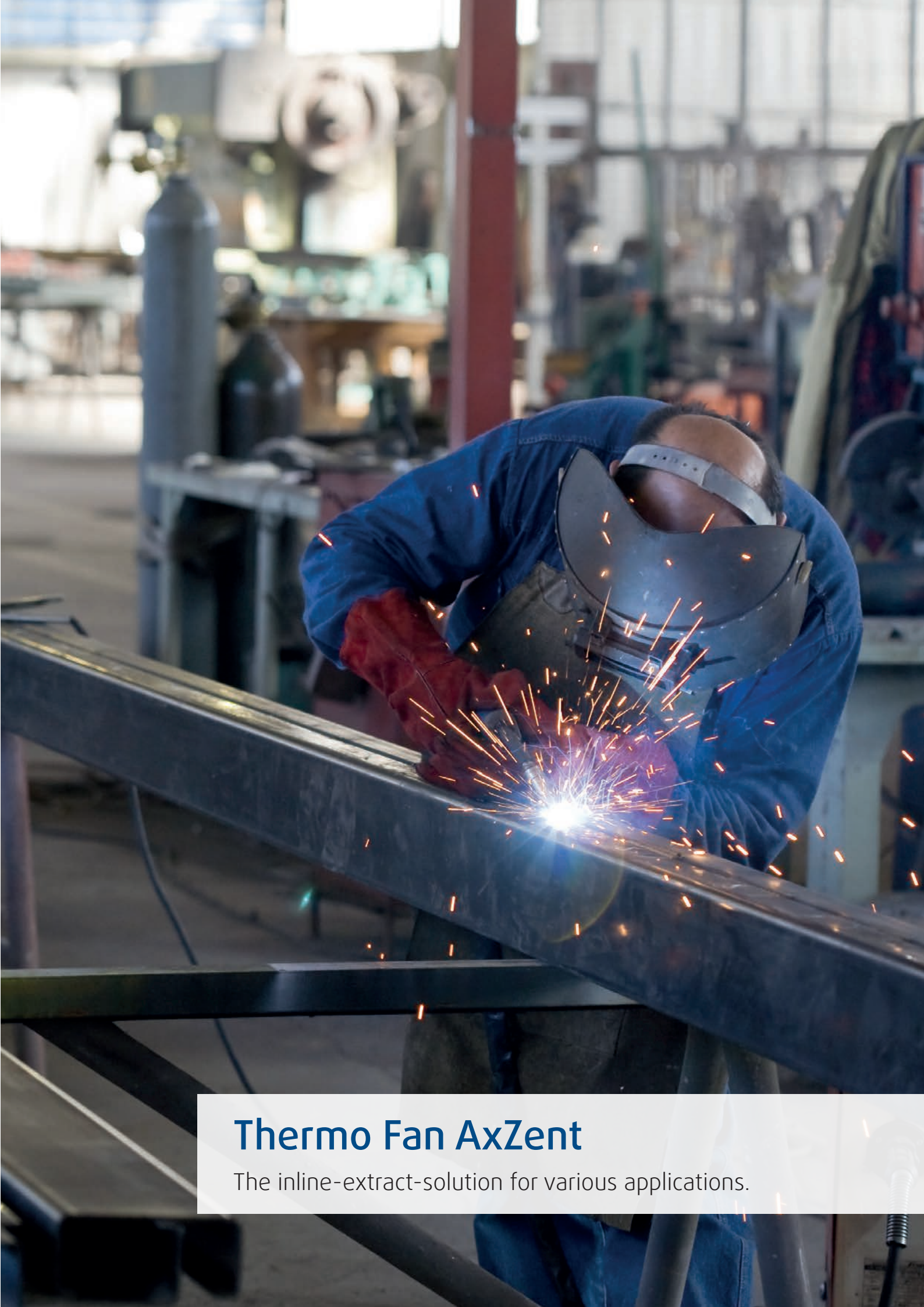
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	71	80	77	80	76	76	73	66
L_{wA} Outlet dB(A)	88	70	80	80	83	80	77	74	67
L_{wA} Surrounding dB(A)	84	64	76	75	79	75	76	73	66

Measurement point: 3998 m³/h; 701 Pa



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L_{wA} Inlet dB(A)	86	71	80	77	80	76	76	73	66
L_{wA} Outlet dB(A)	88	70	80	80	83	80	77	74	67
L_{wA} Surrounding dB(A)	84	64	76	75	79	75	76	73	66

Measurement point: 3998 m³/h; 701 Pa



Thermo Fan AxZent

The inline-extract-solution for various applications.

Domestic fans



General

Domestic fans for the ventilation of bathrooms, toilets and storage rooms. Can be wall or window mounted and in some cases duct mounted.

BF axial fan, CBF centrifugal fan

Casing manufactured from sturdy ABS plastic. Available in standard exhaust fan version, with timer or with timer and humidity sensor.

BF-W axial fan

Casing manufactured from sturdy ABS plastic. For wall or window mounting. Back draught damper included.

IF inline axial fan

Booster fan for duct mounting, with single phase induction motors.

BF-W 466



Window or wall mounted fans for bathrooms, toilets and storage rooms

CBF 472



Fans for bathrooms, toilets and storage rooms

BF 470



Fans for bathrooms, toilets and shower rooms

IF 474



Booster fan for duct mounting

BF-W

Domestic axial fan



Suitable for a variety of domestic and commercial applications, the BF-W range has been designed for window or wall mounting.

These extract fans are easy to install and manufactured from ABS plastic for durability, ease of cleaning and maintenance and cover a wide variety of domestic and commercial applications including kitchens, utility rooms, pubs, restaurant, offices and shops.

The fans can be connected either through the light switch, so that the fan starts when the light is turned on, or through a separate switch.

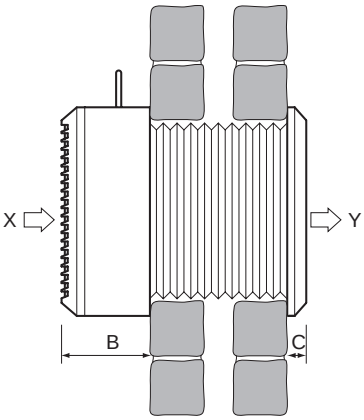
BF-W is equipped with external gravity backdraught shutters.

- Axial fan for window mounting

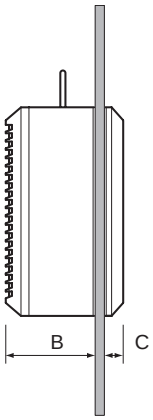
You can find more information in our online catalogue on www.systemair.com

Dimensions

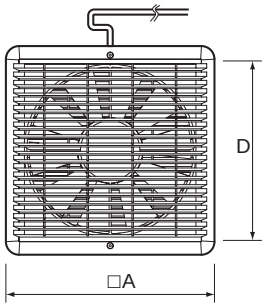
X = In, Y = Out



Wall mounting



Window mounting

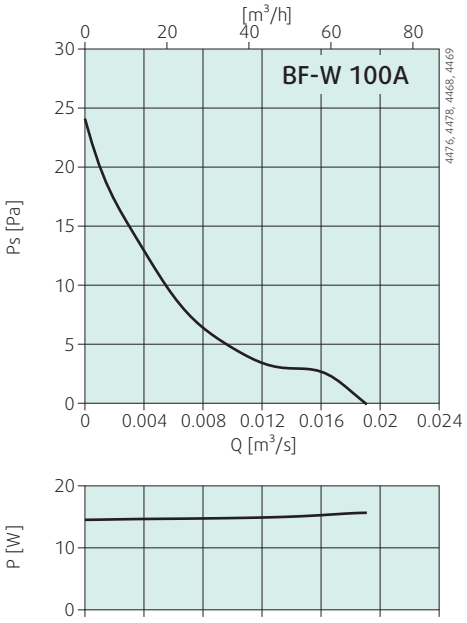


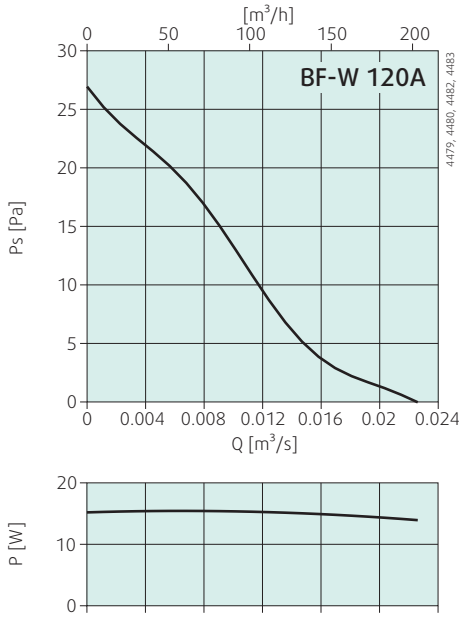
BF-W	A	B	C	D
100A	163	90	30	98
120A	182	92	32	118
150A	203	105	23	150
230A	286	125	25	230
300A	362	145	29	300

Technical data

BF-W		BF-W 100A	BF-W 120A	BF-W 150A	BF-W 230A	BF-W 300A
Art. no.		*7200*	*7202*	*7204*	*7206*	*7219*
Voltage	V	230	230	230	230	230
Frequency	Hz	50	50	50	50	50
Phase	~	1	1	1	1	1
Input power (P1)	W	14.8	13.9	30.8	41.7	70.8
Current	A	0.09	0.09	0.19	0.20	0.32
Max. airflow	m^3/h	68.8	82.8	231	446	691
Fan impeller speed	r.p.m.	2468	2198	2253	1155	1035
Max. temperature of transported air	°C	70	57	64	61	70
* when voltage-controlled	°C	70	57	64	61	70
Sound pressure level at 3 m (20m^2 Sabine)	dB(A)	45	48	54	53	55
Weight	kg	1	1.2	1.5	3.1	5.2
Insulation class		B	B	B	B	B
Enclosure class, motor	IP	44	44	44	44	44
Capacitor	µF	-	-	-	2	3.15

Performance



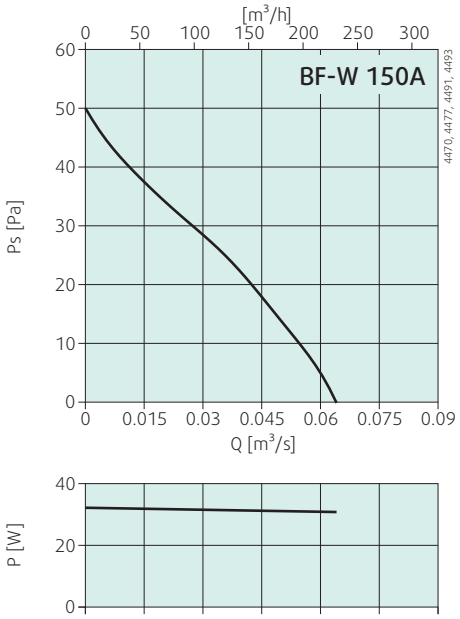


Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	52	11	40	46	48	45	41	39	32
LwA Outlet dB(A)	61	41	54	57	57	47	43	39	30
Measurement point: 41 m^3/h; 3.73 Pa									

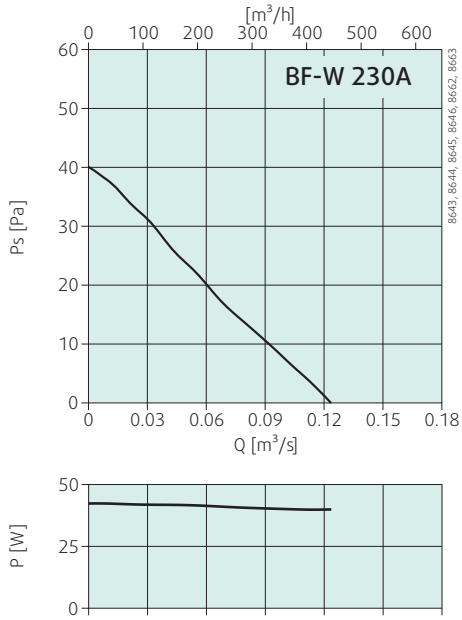
Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	55	22	48	49	48	47	45	38	31
LwA Outlet dB(A)	67	63	59	60	57	50	47	36	29
Measurement point: 53 m^3/h; 5.48 Pa									



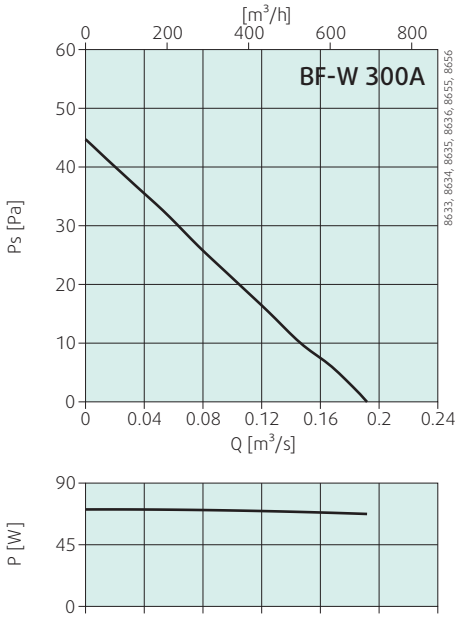
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	61	19	48	56	56	54	51	44	34
LwA Outlet dB(A)	68	47	60	66	60	51	51	43	31
Measurement point: 165 m³/h; 17 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	61	39	48	51	54	57	53	46	37
LwA Outlet dB(A)	62	39	48	49	54	59	54	47	40
Measurement point: 346 m³/h; 9 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	66	56	60	59	59	60	56	51	41
LwA Outlet dB(A)	67	55	61	60	59	61	57	51	44
Measurement point: 533 m³/h; 10 Pa									



BF

Domestic axial fan



The BF units are extraction fans manufactured from ABS plastic. These fans can be connected either through the light switch, so that they start when the light is turned on, or to a separate switch.

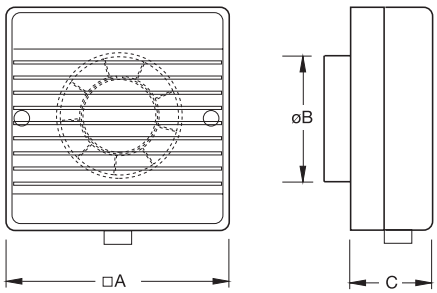
There are three models:
standard model (S), a model with timer (T) and a model with timer and humidity sensor (TH). A time delay of between 1 and 20 minutes can be set on the timer after removing the unit's front cover. The humidity sensor can be set to a value between 40 and 95% relative humidity.

The BF fan has an adjustment knob that is easily accessible at the bottom of the fan.

- Axial fan for bathrooms
- Can be installed on the wall or the ceilin
- available also with timer and timer/humidity combination

You can find more information in our online catalogue on www.systemair.com

Dimensions

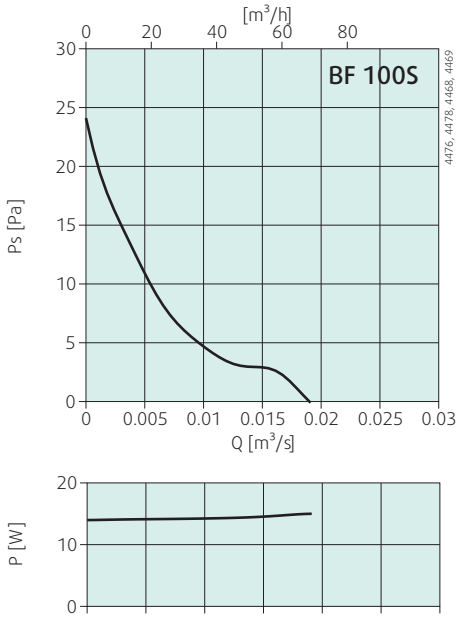


BF	□A	øB	C
100	163	98	60
120	182	118	40
150	203	150	81

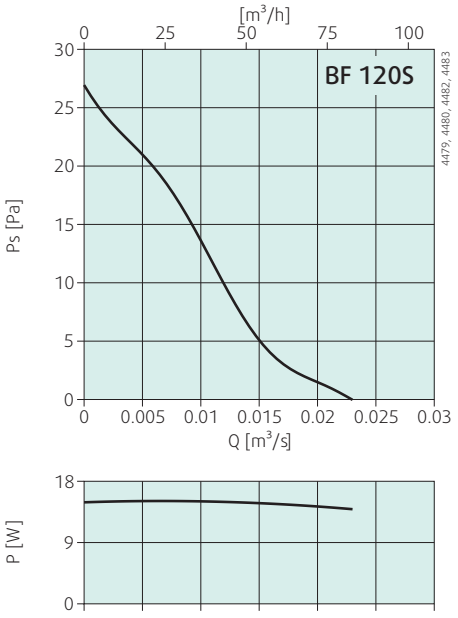
Technical data

BF			BF 100S	BF 120S	BF 150S
Art. no.	*BF S*		*5950*	*5951*	*5952*
Art. no.	*BF T*		*5953*	*5954*	*5955*
Art. no.	*BF TH*		*5956*	*5957*	*5957*
Voltage		V	230	230	230
Frequency		Hz	50	50	50
Phase		~	1	1	1
Input power (P1)		W	14.8	13.9	30.8
Current		A	0.09	0.09	0.19
Max. airflow		m^3/h	68.8	82.8	231
Fan impeller speed		r.p.m.	2468	2198	2253
Max. temperature of transported air		°C	70	57	64
* when voltage-controlled		°C	70	57	64
Sound pressure level at 3 m ($20m^2$ Sabine)		dB(A)	45	48	54
Weight		kg	0.7	0.8	1
Insulation class			B	B	B
Enclosure class, motor		IP	44	44	44

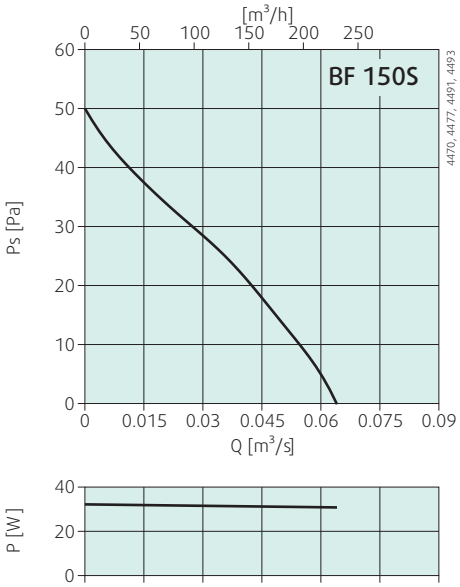
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	52	11	40	46	48	45	41	39	32
LwA Outlet dB(A)	61	41	54	57	57	47	43	39	30
Measurement point: 41 m³/h; 4 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	55	22	48	49	48	47	45	38	31
LwA Outlet dB(A)	67	63	59	60	57	50	47	36	29
Measurement point: 53 m³/h; 5 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	61	19	48	56	56	54	51	44	34
LwA Outlet dB(A)	68	47	60	66	60	51	51	43	31
Measurement point: 165 m³/h; 17 Pa									

CBF

Domestic centrifugal fan



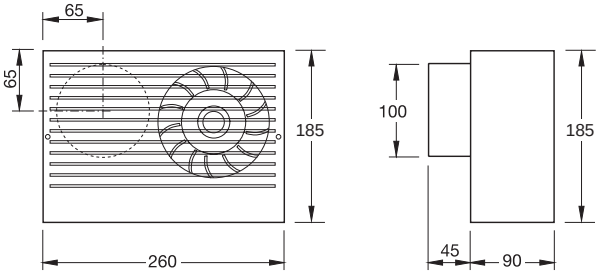
The CBF units are extraction fans manufactured from ABS plastic. These fans can be connected either through the light switch so that they start when the light is turned on, or to a separate switch. The CBF has a spring-loaded back draft damper.

There are three models: standard model (S), a model with timer (T) and a model with timer and humidity sensor (TH). A time delay of between 1 and 20 minutes can be set on the timer after removing the unit's front cover. The humidity sensor can be set to a value between 40 and 95% relative humidity. To adjust the humidity sensor on the CBF fan, the front cover should be removed first.

- Centrifugal fan for bathrooms, toilets and storage rooms
- Can be installed on the wall or the ceiling

You can find more information in our online catalogue on www.systemair.com

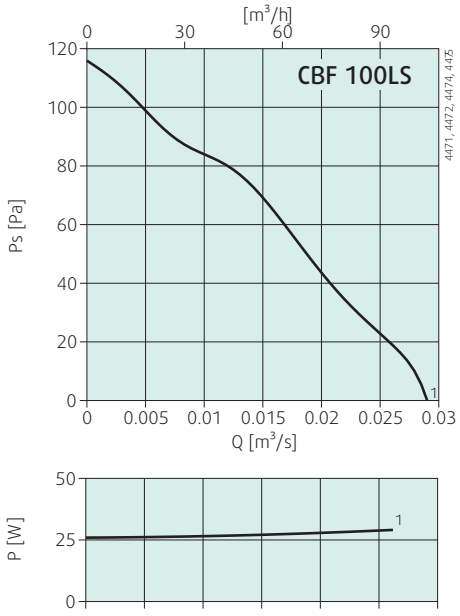
Dimensions



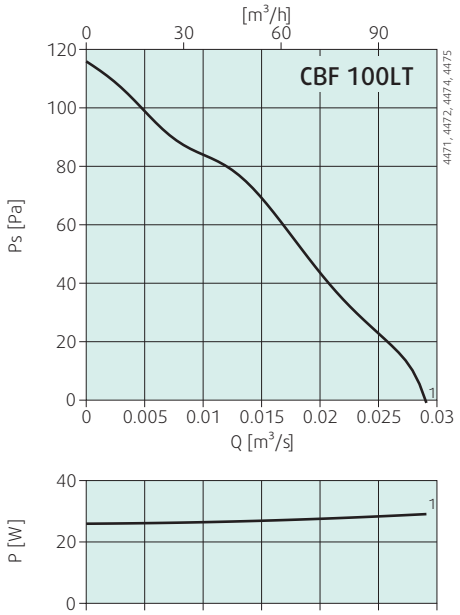
Technical data

CBF		CBF 100LS	CBF 100LT	CBF 100LTH
Art. no.		*5959*	*5960*	*5961*
Voltage	V	230	230	230
Frequency	Hz	50	50	50
Phase	~	1	1	1
Input power (P1)	W	29.1	29.1	29.1
Current	A	0.19	0.19	0.19
Max. airflow	m^3/h	105	105	105
Fan impeller speed	r.p.m.	2403	2403	2403
Max. temperature of transported air	°C	57	57	57
* when voltage-controlled	°C	57	57	57
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	52	52	52
Weight	kg	1.2	1.2	1.2
Insulation class		B	B	B
Enclosure class, motor	IP	44	44	44

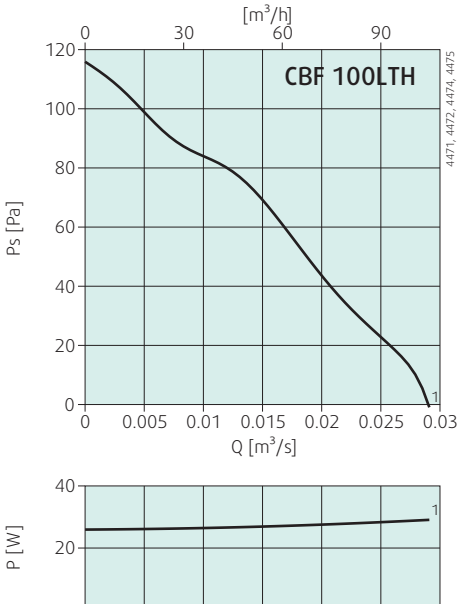
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	59	16	40	50	55	55	49	44	35
LwA Outlet dB(A)	61	40	54	57	55	53	43	37	27
Measurement point: 53 m³/h; 71 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	59	16	40	50	55	55	49	44	35
LwA Outlet dB(A)	61	40	54	57	55	53	43	37	27
Measurement point: 53 m³/h; 71 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	59	16	40	50	55	55	49	44	35
LwA Outlet dB(A)	61	40	54	57	55	53	43	37	27
Measurement point: 53 m³/h; 71 Pa									

IF

Domestic axial fan



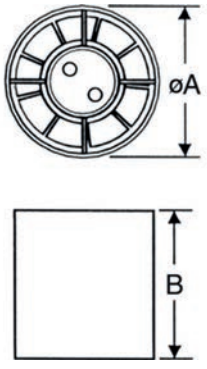
The IF series are in-line extractor fans designed for the safe ventilation of bathrooms, toilets and shower rooms. Manufactured from high impact ABS thermoplastics. The series is suitable for boosting a BF fan where a long run of ducting is used.

The IF fans have single-phase induction motors.

You can find more information in our online catalogue on www.systemair.com

- Axial fan for bathrooms, toilets and shower rooms
- For installations into ducts

Dimensions

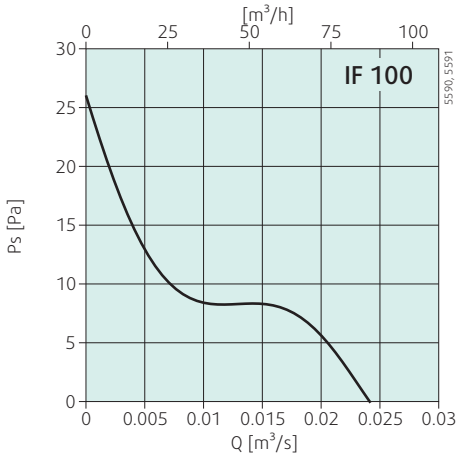


IF	øA	□B
100	100	90
120	118	99
150	150	110

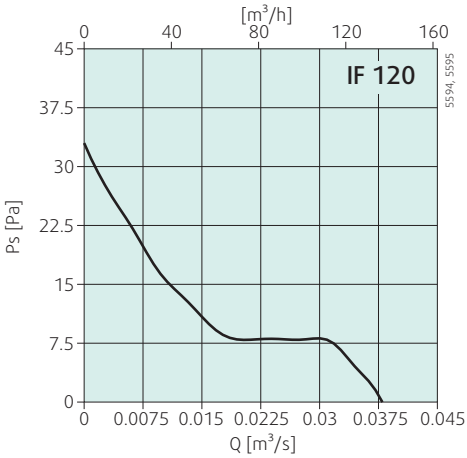
Technical data

IF		IF 100	IF 120	IF 150
Art. no.		*5962*	*5963*	*5964*
Voltage	V	230	230	230
Frequency	Hz	50	50	50
Phase	~	1	1	1
Input power (P1)	W	14	25	25
Max. airflow	m^3/h	87.1	130	240
Fan impeller speed	r.p.m.	2432	2000	2400
Sound pressure level at 3 m ($20m^2$ Sabine)	dB(A)	41	41	40
Weight	kg	0.5	0.6	0.7
Enclosure class, motor	IP	44	44	44

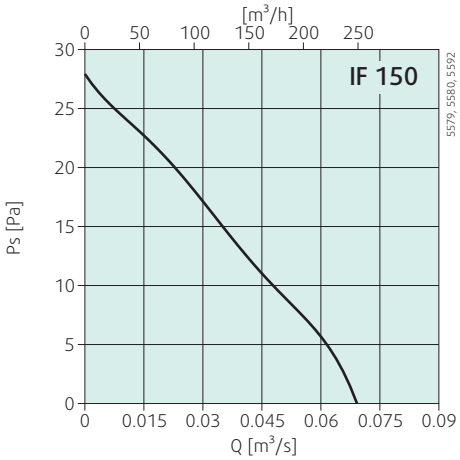
Performance



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	63	35	59	60	51	44	38	36	26
LwA Outlet dB(A)	62	40	61	54	52	45	40	39	32
Measurement point: 61 m³/h; 8 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	59	36	51	53	56	48	42	40	29
LwA Outlet dB(A)	59	28	52	55	54	46	45	46	40
Measurement point: 109 m³/h; 8 Pa									



Type	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
LwA Inlet dB(A)	63	32	60	57	55	47	41	39	29
LwA Outlet dB(A)	63	39	60	58	57	46	43	42	32
Measurement point: 125 m³/h; 15 Pa									

Electrical accessories



Switching devices



Speed controls, transformers



EC-Vent / EC-Basic



Push buttons and fire switches



Frequency inverters



Sensors and thermostats



Temperature controls



Isolators



Electrical actuators



Motor protection



Sensors and thermostats



Other Electrical accessories



Overview control options

External rotor motor or IEC standard motor, single phase

Control by	Voltage 5-step	Voltage 2x 5-step	Voltage TK	Transformer for switching cabinet	Phase cutting	Phase cutting	Phase cutting
Ampere	Transformer	Transformer	Transformer	5-step switch needed	Electronic, poti included	Electronic, controller with 0-10 V or 4-20 mA output signal needed	Electronic
0 - 1.0	RE 1.5	REU 1.5	RTRE 1.5	TES 022A5	REE 050 TR0	REE 030S0	REE 1
1.1 - 1.5	RE 1.5	REU 1.5	RTRE 1.5	TES 022A5	REE 050 TR0	REE 030S0	REE 2
1.6 - 2.0	RE 3	REU 3	RTRE 3	TES 022A5	REE 050 TR0	REE 030S0	REE 2
2.1 - 3.0	RE 3	REU 3	RTRE 3	TES 030A5	REE 050 TR0	REE 030S0	REE 4
3.1 - 4.0	RE 5	REU 5	RTRE 5	TES 040A5	REE 050 TR0	REE 050S0	-
4.1 - 5.0	RE 5	REU 5	RTRE 5	TES 050A5	REE 050 TR0	REE 050S0	-
5.1 - 6.0	RE 7	REU 7	RTRE 7	TES 070A5	REE 100 TR0	REE 100S0	-
6.1 - 7.0	RE 7	REU 7	RTRE 7	TES 070A5	REE 100 TR0	REE 100S0	-
7.1 - 10.0	RE 12	-	RTRE 12	TES100A5	REE 100 TR0	REE 100S0	-
10.1 - 12.0	RE 12	-	RTRE 12	-	-	-	-

External rotor motor, three phase

Control by	Voltage	Voltage	Voltage and 0-10 V	Transformer for switch-ing cabinet	Frequency	Frequency
Ampere	Transformer	Transformer	Transformer	5-step switch needed	Frequency inverter pre-set	Frequency invert set-up needed
0 - 1.0	RTRD 2	RTRDU 2	RADT2	TDS 010A5	FRQS 4A, FRQ5S 4A	-
1.1 - 2.0	RTRD 2	RTRDU 2	RADT2	TDS 030A5	FRQS 4A, FRQ5S 4A	-
2.1 - 4.0	RTRD 4	RTRDU 4	RADT4	TDS 040A5	FRQS 4A, FRQ5S 4A	-
4.0 - 5.2	RTRD 5.2	RTRDU 7	RADT7	TDS 050A5	FRQS 10A, FRQ5S 10A	-
4.1 - 7.0	RTRD 7	RTRDU 7	RADT7	TDS 070A5	FRQS 10A, FRQ5S 10A	-
7.1 - 8.5	RTRD 14	-	-	TDS 110A5	FRQS 10A, FRQ5S 10A	FXDM 18AM
8.5 - 10.0	RTRD 14	-	-	TDS 110A5	FRQS 10A, FRQ5S 10A	FXDM 18AM
10.1 - 12.0	RTRD 14	-	-	-	FRQS 16A, FRQ5S 16A	FXDM 18AM
10.1 - 14.0	RTRD 14	-	-	-	FRQS 16A, FRQ5S 16A	FXDM 18AM
14.1 - 16.0	-	-	-	-	FRQS 16A, FRQ5S 16A	FXDM 18AM
>16.1	-	-	-	-	-	FXDM 18-50AM

EC motor, single and three phase

Control by	Electronic	Electronic	Electronic	Electronic	Electronic	
	0-10 V, 230 V connection	0-10 V, 10 V connection	3-step/on/off, 10 V con-nection	230 V connection, room unit and control box	230 V connection	
0 - 10 V Control input	MTV 1/010	MPT10	MTP 20	EC-Vent (CB) and (RU)	EC-Basic T, U, H, C02/T	

IEC standard motor, three phase

Control by	Voltage	Voltage	Voltage	Frequency	Frequency	
Ampere	Transformer to max. 0,75 kW (IE1)	Transformer to max. 0,75 kW (IE1)	Transformer to max. 0,75 kW (IE1)	Frequency inverter	Frequency inverter, set-up needed	
0 - 2.0	RTRD 2	RTRDU 2	RADT 2	FRQ 4A, FRQ5 4A	-	
2.1 - 4.0	-	-	-	FRQ 4A, FRQ5 4A	-	
4.0 - 8.5	-	-	-	FRQ 10A, FRQ5 10A	-	
8.5 - 10.0	-	-	-	FRQ 10A, FRQ5 10A	-	
10.1 - 16.0	-	-	-	FRQ 16A, FRQ5 16A	-	
>16.0	-	-	-	-	FC102-11kW/24A	
	-	-	-	-	FC102-15kW/32A	
	-	-	-	-	FC102-18,5kw/37,5A	
	-	-	-	-	FC102-22kW/44A	
	-	-	-	-	FC102-30kW/61A	

Explosion proof motors, controllers only for outside hazardous area installation

Control by	Voltage	Frequency	
Ampere	Transformer external rotor motors Ex (e) only, 400 V	Frequency inverter for Ex (d) IEC motors only, 400 V	Motor protection
0 - 4.0	R-DK4 KT (ex)	FRQS 4A, FRQ5S 4A	U-EK 230E + contactor
4.1 - 10.0	-	FRQS 10A, FRQ5S 10A	U-EK 230E + contactor
10.1 - 16.0	-	FRQS 16A, FRQ5S 16A	U-EK 230E + contactor

g	Frequency 5-step	Frequency 0-10 V	Thermal contact	On-Off	On-Off	Analogue Pressure/ temp. Control	Digital Pressure/ temp. Control
	frequency inverter	frequency inverter, controller 0-10 V output needed	Motor protection	Service switch	Service switch TK	Sensor needed	Sensor needed
	FRQ5S-E-6A	FRQS-E-6A	AWE-SK / S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	AWE-SK / S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	AWE-SK / S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-6A	FRQS-E-6A	S-ET10	REV 03/03	REV 05/05	RETP 6	REPT 6
	FRQ5S-E-10A	FRQS-E-10A	S-ET10	REV 03/03	REV 05/05	RETP 10	REPT 10
	FRQ5S-E-10A	FRQS-E-10A	S-ET10	REV 03/03	REV 05/05	RETP 10	REPT 10
	-	-	-	REV 03/03	REV 05/05	-	-

er,	2-speed switch	2-speed switch	2-speed switch	Thermal contact	Cold conductor	On-Off
	max. 4 kW, only for star delta motors	max. 4 kW, only for Dahlander motors	max. 4 kW, only for motors sep.windings	Motor protection	Motor protection	Service switch for single speed motors
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	U-EK 230E + contactor	REV 05/07
	-	-	-	STDT-16	U-EK 230E + contactor	REV 05/07
	-	-	-	STDT-16	U-EK 230E + contactor	REV 05/07
	-	-	-	STDT-16	U-EK 230E + contactor	REV 05/07
	-	-	-	STDT-16	U-EK 230E + contactor	REV 05/07
	-	-	-	-	-	-

	Electronic	Electronic	Electronic	On-Off	On-Off	
	230 V connection, universal controller	24 V connection, 5 in/ outputs	24 V or 230 V connection, 10 in/outputs	Service switch single ph.	Service switch three ph.	
	CXE/AV	Optigo OP5	Optigo 10/Optigo 10-230	REV 03/03	REV 05/05	

	2-speed switch	2-speed switch	2-speed switch	Thermal contact	Cold conductor	On-Off
	max. 4 kW, only for star delta motors	max. 4 kW, only for Dahlander motors	max. 4 kW, only for motors sep.windings	Motor protection	Motor protection	Service switch
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	STDT-16	-	REV 05/07
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	-	U-EK 230E + contactor	REV 05/05
	S-DT2SKT (Y/D)	S-DT2DKT (Y/YY)	S-DT2GKT (Y/Y)	-	U-EK 230E + contactor	REV 05/05
	-	-	-	-	U-EK 230E + contactor	REV 05/05
	-	-	-	-	U-EK 230E + contactor	REV 05/05
	-	-	-	-	U-EK 230E + contactor	-
	-	-	-	-	U-EK 230E + contactor	-
	-	-	-	-	U-EK 230E + contactor	-
	-	-	-	-	U-EK 230E + contactor	-
	-	-	-	-	U-EK 230E + contactor	-



S2S 160

Two speed switch

This two speed switch is available with casing for surface mounting:
Change between two speeds with changing the different windings (auxiliary and main windings). Casing, plastic.

		S2S 160
Art. no.		*2693*
Voltage	V	1-230
Current	A	10
Enclosure class	IP	54

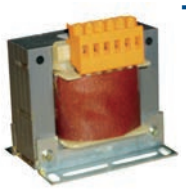


S-DT2 SKT
S-DT2 DKT
S-DT2 GKT

Two speed switch

Switching and protecting unit star/delta/ Dahlander/2 separated windings. For changing speed of three phase motors with 2 speed. Automatic cut out of motor when thermal contact trip (overheating of motor). Reset by setting the main switch to 0 and restart. Plastic casing for surface mounting, assembly without casing is possible on a mounting rail.

S-DT2		SKT	DKT	GKT
Art. no.		*2697*	*2698*	*2699*
Voltage	V	400	400	400
Phase	~	3	3	3
Max. power load	kW	4	4	4
Connection		Y/D	Y/YY	Y/Y
Enclosure class	IP	54	54	54
Width	mm	166		
Height	mm	230		
Depth	mm	129		



TES / TDS

TES		022A5	030A5	040A5	050A5	070A5	100A5
Art. no.		*9511*	*9512*	*9513*	*9524*	*9514*	*9515*
Voltage	V	230	230	230	230	230	230
Max. current	A	2.2	3	4	5	7	10
Ambient temperature	°C	40	40	40	40	40	40
Weight	kg	2.4	2.9	3.6	4.2	5.1	6.8
Width	mm	96	96	120	100	120	120
Height	mm	100	100	118	112	118	118
Depth	mm	78	88	86	95	99	119

Speed transformer for switch-board assembly

Transformers according to VDE 0550, Insulation class B.
For 3~ systems the TDS consists of two transformers.
They have 5 voltage sections.
400 / 240 / 190 / 145 / 95V (TDS)
230 / 160 / 130 / 105 / 80V (TES)

TES		010A5	030A5	040A5	050A5	070A5	110A5
Art. no.		*9516*	*9517*	*9518*	*9519*	*9520*	*9521*
Voltage	V	400	400	400	400	400	400
Max. current	A	1	3	4	5	7	10
Ambient temperature	°C	40	40	40	40	40	40
Weight	kg	(2x) 2.9	(2x) 3.5	(2x) 5.3	(2x) 6.8	(2x) 8.6	(2x) 11.6
Width	mm	(2x) 96	(2x) 120	(2x) 120	(2x) 120	(2x) 150	(2x) 150
Height	mm	(2x) 100	(2x) 118	(2x) 118	(2x) 118	(2x) 145	(2x) 145
Depth	mm	(2x) 88	(2x) 86	(2x) 99	(2x) 119	(2x) 118	(2x) 145



S5S 100T1
S5S 100T3

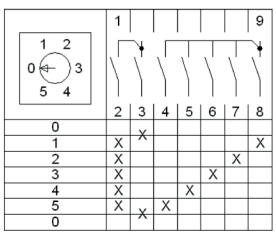
Five step switch

Five step switch for transformer TES. Imax=10A. To mount in a front door of a switch board.

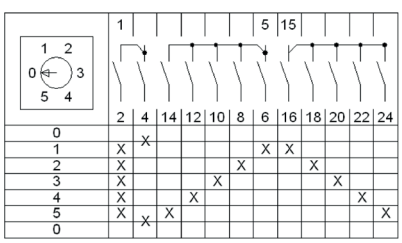
Contacts:
5 steps NO
1 auxiliary contact NO
1 auxiliary contact NO (impulse)

S5S 100		T1	T3
Art. no.		*2700*	*2701*
Voltage	V	230	400
Phase	~	1	3
Max. current	A	10	10
Depth	mm	48	48
Width	mm	48	48
Height	mm	103	128
Weight	kg	0.15	0.20

S5S 100T1



S5S 100T3





AES

Exhaust air and smoke extraction control

For fans with three-phase motors. Up to four fans can be controlled depending on type. All functions in accordance with VDMA 24177 (fans for keeping buildings free of smoke and heat in case of fire). Functionality in accordance with DIN/VDE 0660. In plastic housing.

Exhaust air and smoke extraction control

AES...D = direct switching
AES...SD = star-delta-switching
AES...SS = 2-steps with switching for separate windings
AES...DA = 2-steps with switching for Dahlander

AES...D	Art. no.	kW	Number of controllable motors	Motor protection current-range *		Dimensions
				1-step [A]	2-step [A]	L/W/H [mm]
AES3.2-0.37kW-D	*77038*	0.37	1	0.6 to 1 A		320/240/130
AES3.2-0.37kW-D2M	*35620*	0.37	2	0.6 to 1 A		400/320/130
AES3.2-0.37kW-D3M	*35621*	0.37	3	0.6 to 1 A		480/400/130
AES3.2-0.37kW-D4M	*35622*	0.37	4	0.6 to 1 A		480/400/130
AES3.2-0.55kW-D	*77039*	0.55	1	1 to 1.6 A		320/240/130
AES3.2-0.55kW-D2M	*35624*	0.55	2	1 to 1.6 A		400/320/130
AES3.2-0.55kW-D3M	*35625*	0.55	3	1 to 1.6 A		480/400/130
AES3.2-0.55kW-D4M	*35626*	0.55	4	1 to 1.6 A		480/400/130
AES3.2-0.75kW-D	*77047*	0.75	1	1.6 to 2.4 A		320/240/130
AES3.2-0.75kW-D2M	*77048*	0.75	2	1.6 to 2.4 A		400/320/130
AES3.2-0.75kW-D3M	*77049*	0.75	3	1.6 to 2.4 A		480/400/130
AES3.2-0.75kW-D4M	*77050*	0.75	4	1.6 to 2.4 A		480/400/130
AES3.2-1.1kW-D	*77051*	1.1	1	2.4 to 4 A		320/240/130
AES3.2-1.1kW-D2M	*77052*	1.1	2	2.4 to 4 A		400/320/130
AES3.2-1.1kW-D3M	*77053*	1.1	3	2.4 to 4 A		480/400/130
AES3.2-1.1kW-D4M	*77054*	1.1	4	2.4 to 4 A		480/400/130
AES3.2-1.5kW-D	*77055*	1.5	1	2.4 to 4 A		320/240/130
AES3.2-1.5kW-D2M	*77056*	1.5	2	2.4 to 4 A		400/320/130
AES3.2-1.5kW-D3M	*77057*	1.5	3	2.4 to 4 A		480/400/130
AES3.2-1.5kW-D4M	*77058*	1.5	4	2.4 to 4 A		480/400/130
AES3.2-2.2kW-D	*77059*	2.2	1	4 to 6 A		320/240/130
AES3.2-2.2kW-D2M	*77083*	2.2	2	4 to 6 A		400/320/130
AES3.2-2.2kW-D3M	*77084*	2.2	3	4 to 6 A		480/400/130
AES3.2-2.2kW-D4M	*77085*	2.2	4	4 to 6 A		480/400/130
AES3.2-3kW-D	*77086*	3.0	1	4 to 6 A		320/240/130
AES3.2-3kW-D2M	*77087*	3.0	2	4 to 6 A		400/320/130
AES3.2-3kW-D3M	*77088*	3.0	3	4 to 6 A		480/400/130
AES3.2-3kW-D4M	*77089*	3.0	4	4 to 6 A		480/400/130
AES3.2-4kW-D	*77091*	4.0	1	6 to 9 A		320/240/130
AES3.2-4kW-D2M	*77092*	4.0	2	6 to 9 A		400/320/130
AES3.2-4kW-D3M	*77093*	4.0	3	6 to 9 A		480/400/130
AES3.2-4kW-D4M	*77094*	4.0	4	6 to 9 A		480/400/130

AES...SD	Art. no.	kW	Number of controllable motors	Motor protection current-range *		Dimensions
				1-step [A]	2-step [A]	L/W/H [mm]
AES-5.5kW-SD	*77095*	5.5	1	6 to 10 A		400/320/190
AES-5.5kW-SD2M	*77096*	5.5	2	6 to 10 A		480/400/190
AES-7.5kW-SD	*77097*	7.5	1	6 to 10 A		400/320/190
AES-7.5kW-SD2M	*77098*	7.5	2	6 to 10 A		480/400/190
AES-11kW-SD	*77099*	11.0	1	10 to 16 A		400/320/190
AES-15kW-SD	*77100*	15.0	1	16 to 24 A		480/400/190
AES-18.5kW-SD	*77101*	18.5	1	16 to 24 A		480/400/190
AES-22kW-SD	*77102*	22.0	1	24 to 32 A		480/400/190
AES-30kW-SD	*77103*	30.0	1	24 to 40 A		600/600/250

* Other currents possible on request.

AES...SS	Art. no.	kW	Number of controllable motors	Motor protection current-range *		Dimensions
				1-step [A]	2-step [A]	L/W/H [mm]
AES3.2-0.9kW. SS	*77104*	0.9	1	0.6 to 1 A	1.6 to 2.4 A	400/320/190
AES3.2-0.9kW. SS2M	*35593*	0.9	2	0.6 to 1 A	1.6 to 2.4 A	480/400/190
AES3.2-1.2kW. SS	*77105*	1.2	1	1 to 1A	2.4 to 4 A	400/320/190
AES3.2-1.2kW. SS2M	*35595*	1.2	2	1 to 1.6 A	2.4 to 4 A	480/400/190
AES3.2-1.7kW. SS	*77106*	1.7	1	2.4 to 4 A	4 to 6 A	400/320/190
AES3.2-1.7kW. SS2M	*35597*	1.7	2	2.4 to 4 A	4 to 6 A	480/400/190
AES3.2-2.2kW. SS	*77107*	2.2	1	2.4 to 4 A	4 to 6 A	400/320/190
AES3.2-2.2kW. SS2M	*77108*	2.2	2	2.4 to 4 A	4 to 6 A	480/400/190
AES3.2-2.5kW. SS	*77109*	2.5	1	2.4 to 4 A	6 to 10 A	400/320/190
AES3.2-2.5kW. SS2M	*77116*	2.5	2	2.4 to 4 A	6 to 10 A	480/400/190
AES3.2-3.2kW. SS	*77117*	3.2	1	2.4 to 4 A	6 to 10 A	400/320/190
AES3.2-3.2kW. SS2M	*77118*	3.2	2	2.4 to 4 A	6 to 10 A	480/400/190
AES3.2-4kW. SS	*77119*	4.0	1	2 to 4 A	6 to 10 A	400/320/190
AES3.2-4kW. SS2M	*77120*	4.0	2	2 to 4 A	6 to 10 A	480/400/190
AES3.2-5.5kW. SS	*77121*	5.5	1	4 to 6 A	10 to 16 A	400/320/190
AES3.2-5.5kW. SS2M	*77122*	5.5	2	4 to 6 A	10 to 16 A	480/400/190
AES3.2-7.5kW. SS	*77123*	7.5	1	6 to 10 A	10 to 16 A	400/320/190
AES3.2-7.5kW. SS2M	*77124*	7.5	2	6 to 10 A	10 to 16 A	480/400/190
AES3.2-11kW. SS	*77125*	11.0	1	10 to 16 A	16 to 24 A	400/320/190
AES3.2-15kW. SS	*77126*	15.0	1	10 to 16 A	24 to 40 A	480/400/190
AES3.2-18.5kW. SS	*77127*	18.5	1	16 to 24 A	24 to 40 A	480/400/190
AES3.2-22kW. SS	*77128*	22.0	1	16 to 24 A	40 to 57 A	480/400/190
AES3.2-30kW. SS	*77129*	30.0	1	16 to 24 A	40 to 57 A	600/600/250

AES...DA	Art. no.	kW	Number of controllable motors	Motor protection current-range *		Dimensions
				1-step [A]	2-step [A]	L/W/H [mm]
AES3.2-0,55kW, DA	77130	0.55	1	0.6 to 1 A	1 to 1.6 A	400/320/190
AES3.2-0,55kW, DA2M	77131	0.55	2	0.6 to 1 A	1 to 1.6 A	400/320/190
AES3.2-0,75kW, DA	*77132*	0.75	1	0.6 to 1 A	1.6 to 2.4A	400/320/190
AES3.2-0.75kW. DA2M	*35605*	0.75	2	0.6 to 1 A	1.6 to 2.4A	480/400/190
AES3.2-1.3kW. DA	*77133*	1.3	1	1 to 1.6 A	2.4 to 4.0A	400/320/190
AES3.2-1.3kW. DA2M	*77134*	1.3	2	1 to 1.6 A	2.4 to 4.0A	480/400/190
AES3.2-1.8kW. DA	*77135*	1.8	1	1 to 1.6 A	2.4 to 4 A	400/320/190
AES3.2-1.8kW. DA2M	*77136*	1.8	2	1 to 1.6 A	2.4 to 4 A	480/400/190
AES3.2-2.6kW. DA	*77137*	2.6	1	2.4 to 4 A	6 to 10 A	400/320/190
AES3.2-2.6kW. DA2M	*77138*	2.6	2	2.4 to 4 A	6 to 10 A	480/400/190
AES3.2-3.2kW. DA	*77139*	3.2	1	2.4 to 4 A	6 to 10 A	400/320/190
AES3.2-3.2kW. DA2M	*77140*	3.2	2	2.4 to 4 A	6 to 10 A	480/400/190
AES3.2-4kW. DA	*77141*	4.0	1	2.4 to 4 A	6 to 10 A	400/320/190
AES3.2-4kW. DA2M	*77142*	4.0	2	2.4 to 4 A	6 to 10 A	480/400/190
AES3.2-5.5kW. DA	*77143*	5.5	1	4 to 6 A	10 to 16 A	400/320/190
AES3.2-5.5kW. DA2M	*77144*	5.5	2	4 to 6 A	10 to 16 A	480/400/190
AES3.2-7.5kW. DA	*77145*	7.5	1	4 to 6 A	10 to 16 A	400/320/190
AES3.2-7.5kW. DA2M	*77146*	7.5	2	4 to 6 A	10 to 16 A	480/400/190
AES3.2-11kW. DA	*77147*	11.0	1	4 to 6 A	16 to 24 A	400/320/190
AES3.2-15kW. DA	*77148*	15.0	1	6 to 10 A	16 to 24 A	480/400/190
AES3.2-18.5kW. DA	*77149*	18.5	1	10 to 16 A	24 to 40 A	480/400/190
AES3.2-22kW. DA	*77150*	22.0	1	10 to 16 A	35 to 50 A	480/400/190
AES3.2-30kW. DA	*77151*	30.0	1	16 to 24 A	40 to 57 A	600/600/250

* Other currents possible on request.



ARM-1

Smoke Detector with socket

Smoke detector with socket for connection with AES-ST3.1. With VdS-approval and according to DIN-EN 54-7. High operating safety due to intelligent analysis of the optical signal.

Art. no.: 35710
Material: ABS
Color: white
Enclosure class: IP 40



AMM-2

Multiple sensor smoke detector

Smoke detector (optical and thermal) with socket for connection with AES-ST3.1. With VdS-approval and according to DIN-EN 54-7. High operating safety due to intelligent analysis of the optical and thermal signal.

Art. no.: 35711
Material: ABS
Color: white
Enclosure class: IP 40



DKM-2K

Pushbutton signal

Pushbutton signal „smoke exhaust" made from plastic, with locking switch and buried resetting. With indicator for standby/activated.

	DKM-2K-GR	DKM-2K-GE	DKM-2K-OR	DKM-2K-RT
Art. no.	*77154*	*77155*	*77156*	*35712*
Color	grey	yellow	orange	red



DKT-3

Pushbutton switch

Pushbutton switch „smoke extraction" made from plastic. With protection class IP 42. Voltage: 12 - 48V DC. With indicator for standby/activated.

	DKT-3GR	DKT-3GE
Art. no.	*35708*	*35709*
Color	grey	yellow



FEP-AP

Fire brigade switch

Fire brigade switch for switching by a key switch. Key switch (FEP-ZY / art. no.: 77157) not included. Fire brigade switch ifor wall mounting.
Switch positions: standby/smoke extract/off.

Art. no.: 77153
Nominal voltage: 24 V DC
Protection class: I
Color: red
Enclosure class: IP 44
Dimensions H/W/D: 125/125/70 mm



FET-AP

Fire brigade switch

Fire brigade switch for smoke extraction with standard key switch for wall mounting. With key switch standby/smoke extract/off.

Art. no.: 77152
Nominal voltage: 24 V DC
Protection class: I
Color: red/grey
Enclosure class: IP 54
Dimensions H/W/D: 160/80/80 mm



RE

Manual five-step transformer (230 V)

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit.

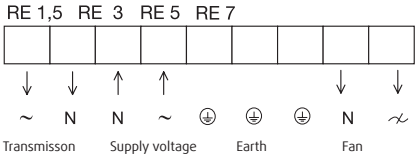
The transformer has 230 V terminals for operating dampers, electric heater batteries or other external equipment. When the transformer knob is in position 0, the outlet has no current. The indicator lamp on the front shows that the transformer is in operation. The fuse may be reset from outside. The RE has a self extinguishing thermoplastic casing.

NOTE! Fans with external contact leads (TK) must always be connected to a motor protection device

RE	Art. no.	Current	Enclosure
1.5	*5000*	1.5 A	IP 54
3	*5001*	3 A	IP 54
5	*5002*	5 A	IP 54
7	*5003*	7 A	IP 54

Output voltages for each of the 5 steps					
Step	1	2	3	4	5
Voltage	80	105	130	160	230

RE	Width	Height	Depth	Weight, kg
1.5	105	200	105	1.5
3	105	200	105	2.5
5	105	200	105	4.1
7	147	257	145	7.5



Transmisson: between ~ and N is always 230 V when the transformer handle is in pos. 1-5



RTRE

Manual five-step transformer (230 V)

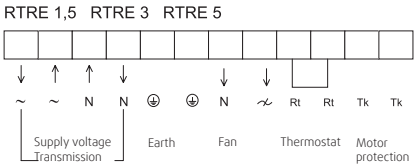
(with motor protection)
A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the knob to "0" for 10 seconds, after which the unit restarts.

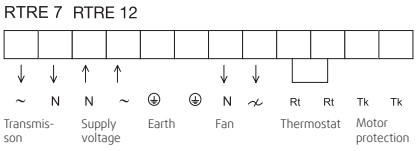
The unit has input terminals for room thermostat RT, which stops the supply voltage to the fan when the circuit is broken. These terminals are linked before delivery. The transformer has 230 V terminals for operating dampers, electric water-heater batteries or other external equipment. These terminals have no current when the transformer knob is in position 0, or when the TK or RT input is open. The indicator lamp on the front shows when the transformer is in operation. The fuse may be reset from outside. The RTRE has a self-extinguishing thermoplastic casing.
Supply voltage: 230 V, 50/60 Hz.

RTRE	Art. no.	Current	Enclosure
1.5	*5008*	1.5 A	IP 54
3	*5009*	3 A	IP 54
5	*5010*	5 A	IP 54
7	*5011*	7 A	IP 54
12	*6133*	12 A	IP 54

Output voltages for each of the 5 steps:					
Step	1	2	3	4	5
Voltage	80	105	130	160	230

RTRE	Width	Height	Depth	Weight, kg
1.5	105	203	106	1.9
3	105	203	106	2.6
5	105	203	106	4.2
7	147	278	140	7.0
12	147	278	140	10.5







REU

Manual five-step transformer (230 V)

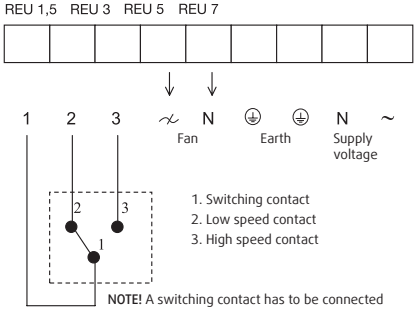
A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. There are two control switches: one for higher fan speeds and one for lower fan speeds. Switching between the high and low settings is done by an external change-over contact, which can be a thermostat or a timer. The indicator lamp on the front shows when the transformer is in operation. The fuse may be reset from outside. The REU has a self-extinguishing thermoplastic casing.
Supply voltage: 230 V, 50/60 Hz.

NOTE! Fans with external thermal contact leads (TK) must always be connected to a motor protection device.

REU	Art. no.	Current	Enclosure
1.5	5004	1.5 A	IP 54
3	5005	3 A	IP 54
5	5006	5 A	IP 54
7	5007	7 A	IP 54

Output voltages for each of the 5 steps:					
Step	1	2	3	4	5
Voltage	80	105	130	160	230

REU	Width	Height	Depth	Weight, kg
1.5	105	200	105	1.8
3	105	275	145	4.05
5	105	275	145	4.9
7	105	275	145	7.05





RTRD

Manual five-step transformer (400 V)

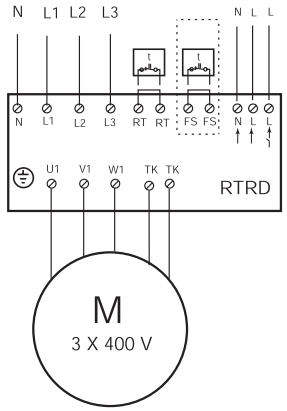
(With motor protection).
A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit.
An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the knob to "0" for 10 seconds, after which the unit restarts.
Input terminals for room thermostat RT and frost protection thermostat FS cut supply voltage to the fan when the circuit is broken. When the frost protection thermostat FS breaks the circuit, it is reset in the same way as when the TK is triggered. Terminals are linked before delivery. The indicator lamp on the front shows that the transformer is in operation.
The transformer has 230 V terminals for operating dampers, electric heater batteries or other external equipment. These terminals have no current when the transformer knob is in position 0, or when the TK or RT input is open.

Supply voltage: 400 V, 50/60 Hz.

RTRD	Art. no.	Current	Enclosure
2	5941	2 A	IP 54
3	32594	3 A	IP 54
4	5942	4 A	IP 21
5.2	32399	5.2 A	IP 54
7	5943	7 A	IP 21
14	5944	14 A	IP 21

Output voltages for each of the 5 steps:					
Step	1	2	3	4	5
Voltage	95	145	190	240	400

RTRD	Width	Height	Depth	Weight, kg
2	240	284	132	7.4
3	270	323	172	11
4	270	323	173	11
5.2	270	323	172	15.6
7	270	323	172	15.5
14	450	290	174	30.,





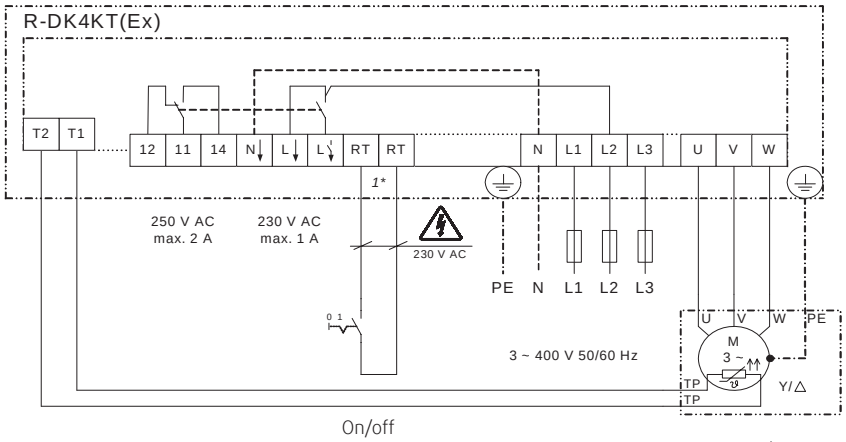
R-DK4 KT (EX)

Manual five step transformer (400 V)

(With motor protection)
for RVK 315Y4, KTEX, DKEX and DVEX fans. An integral thermistor releasing unit type U-EK230E with ATEX-approval can be used for the temperature monitoring of explosion proof motors. A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. An integral motor protection device is included which cuts the supply voltage to the fan if the thermistor motor protection triggs. The unit is reset by turning the knob to "0" for 1 minute. Input terminals for room thermostat RT cut supply voltage to the fan when the circuit is broken.

NOTE! The transformer cannot be placed in the EX zone.

		R-DK4 KT
Art. no.		*6051*
Voltage	V	400 3~
Frequency	Hz	50/60
Current	A	4.0
Max. ambient temp.	°C	40
Enclosure	IP	21
WxHxD	mm	270x323x163
Weight	kg	11.2



On/off

1* If function is not needed, terminals must be bridged

3~ motor with internal thermistors



RTRDU

Manual five-step transformer (400 V)

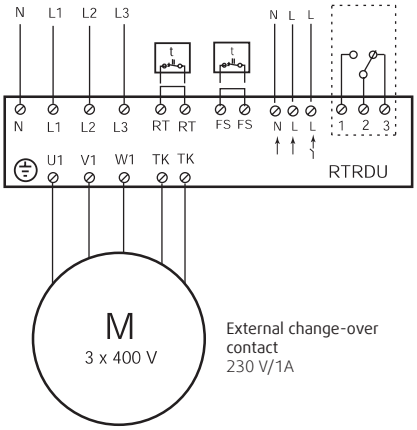
(With motor protection).
A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knobs on the front of the unit.
There are two control knobs: one for higher fan speeds and one for lower fan speeds. Switching between the high and low settings is done by an external change-over contact, which can be a thermostat or a timer. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the switch to "0" for 10 seconds, after which the unit restarts.
Input terminals for room thermostat RT cuts supply voltage to the fan when the circuit is broken. Terminals are linked before delivery. The indicator lamp on the front shows when the transformer is in operation.
The transformer has 230 V terminals for operating dampers, electric heater batteries or other external equipment. These terminals have no current when the transformer switch is in position 0, or when the TK or RT input is open.

Supply voltage: 400 V, 50/60 Hz.

RTRDU	Art. no.	Current	Enclosure
2	*5945*	2A	IP 21
4	*5946*	4A	IP 21
7	*5947*	7A	IP 21

Output voltages for each of the 5 steps:					
Step	1	2	3	4	5
Voltage	95	145	190	240	400

RTRDU	Width	Height	Depth	Weight, kg
2	270	323	163	7.7
4	270	323	163	11.6
7	270	323	163	15.9





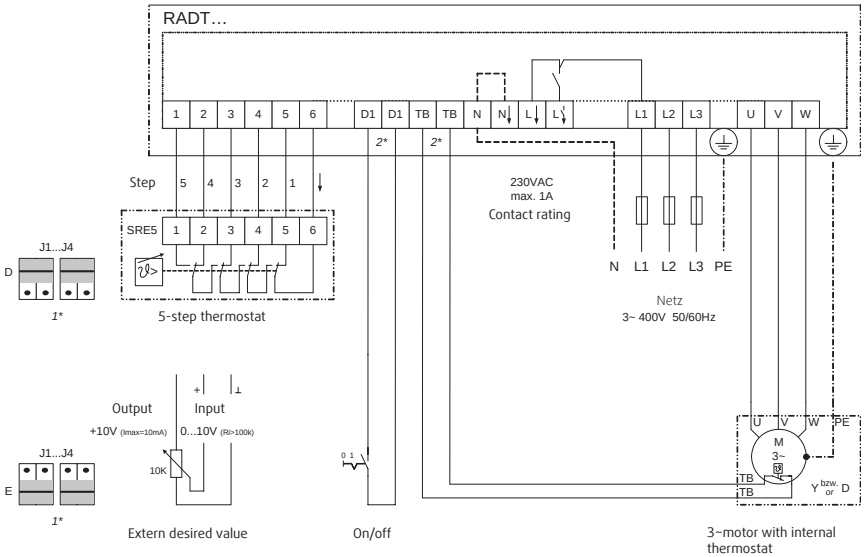
RADT

RADT		2V	4V	7V
Width	mm	270	270	270
Hight	mm	323	323	323
Depth	mm	163	163	163

RADT		2V	4V	7V
Art. no.		*30671*	*30672*	*30673*
Voltage	V	400 3~	400 3~	400 3~
Frequency	Hz	50/60	50/60	50/60
Current	A	2	4	7
Control signal		0...10VDC		
Enclosure	IP	21	21	21
Max. ambient temp.	°C	40	40	40
Weight	kg	7.7	11.3	15.8

5-step-transformer with control input (400 V)

A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted by an external 0..10 V control signal or by a potentiometer. Supply voltage +10 V.
Main switch on the front of the unit. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the knob to "0" for 10 seconds, after which the unit restarts.
Input terminals for on/off cut supply voltage to the fan when the circuit is broken. The indicator lamp on the front shows when the transformer is in operation. The transformer has 230V terminals for operating dampers, electric heater batteries or other external equipment. These terminals have no current when the transformer knob is in position 0, or when the on/off input is open.



1* Function change by changing the position of the switch.
2* If function is not needed, terminal must be bridged.



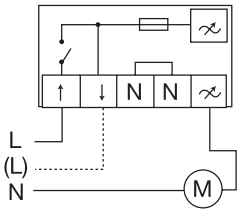
REE

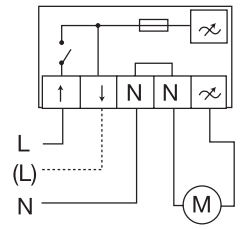
Thyristor speed controller (230 V)

REE 1 or REE 2 - surface- or flush mounting
REE 4 - only surface mounting
For the manual speed control of fans with single phase motors. The jetproof IP 54 enclosure is achieved with the included surface mounting case (flush mounting without the surface mounting case, gives a splash proof IP 44 enclosure also suitable for highly demanding enviroments as bathrooms etc.). Several motors can be connected in parallel as long as the total current does not exceed current range. Starting currents must be considered when choosing speed controller type. Fans to be used with this controller require a built-in overheating protection and should be designed for thyristor speed control.

NOTE: phase cutting controller can generate electronic noise

		REE 1	REE 2	REE 4
Art. no.		*5314*	*5316*	*5317*
Voltage	V	230 1~	230 1~	230 1~
Frequency	Hz	50...60	50...60	50...60
Current	A	0.1-1.0	0.1-2.0	0.4-4.0
Fuse	A	1.25	2.5	5
Enclosure	IP	54	54	54
WxHxD	mm	82x82x65	82x82x65	82x82x65
Weight	kg	0.25	0.25	0.25





Line L state connection with cutting function on the speed control.

Broken line (L) state connection without cutting function.



REE S0

Thyristor power controller (230 V)

Stepless phase cutting contoller for 1~ 230 V / 50 Hz motors. It has a connection for an external control signal 0...10 V or 4...20 mA. The control signal can be choosen by an internal switch. Internal potentiometer to set a min speed. On/off switch with control lamp. White plastic casing IP54. Several motors can be connected in parallel as long as the total current does not exceed the current range. Fans to be used with this controller require built in overheat protection and should be designed for thyristor speed control.

NOTE: phase cutting controller can generate electronic noise!

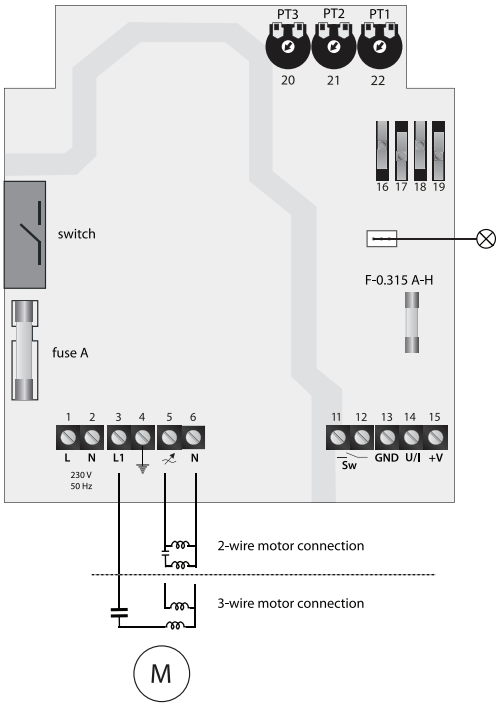
REE		030S0	050S0	100S0
Art. no.		*2676*	*2677*	*2678*
Voltage	V	230 1~	230 1~	230 1~
Current	A	0.3...3	0.5...5	1...10
Control signal		0...10VDC/4...20mA		
Fuse	A	FF4	FF8	FF14
Enclosure	IP	54	54	54
Weight	kg	0.8	1.0	1.0

High voltage:

1 L: main supply 230 V AC / 50 Hz - INPUT
2 N: neutral - INPUT
3 L1: 230 V AC not regulated to motor (after fuse) - OUTPUT
4 Earth Terminal
5 M: regulated output to motor - OUTPUT
6 N: neutral to motor - OUTPUT

Low voltage:

11-12 On / Off switch
13 GND
14 U: control signal 0..10 V DC (impedanz 90 kOhm) / I: 0..20 mA (impedanz 250 Ohm)
15 +V: low voltage power supply 12 V DC / 1 mA for external potentiometer
16 switch up: 0..10 V signal
switch down: 10..0 V signal
17 switch up: disable off-level
switch down: enable off-level
18 switch up: disable kickstart
switch down: enable kickstart
19 switch up: Currentsignal 0..20 mA
switch down: Voltagesignal 0..10 V
20 Off level adjustment potentiometer 0..4 V or 10..6 V (depending on switch 16)
21 Min. speed adjustment 60..160 V
Max. speed ajustment 165..230 V
LED On: normal operation
Blinking: standby (input signal > off-level)





REE TR0

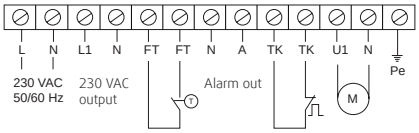
Thyristor speed controller (230 V)

Stepless phase cutting controller for 1~230 V/50 Hz motors. It has a potentiometer to set the speed and control lamps for operation and alarm. Internal potentiometer to set a min. speed. On/off switch with control lamp. Connection for on/off switch, alarm and thermal contacts.

White plastic casing IP54. Several motors can be connected in parallel as long as the total current does not exceed the current range. Fans to be used with this controller must be designed for thyristor speed control.

NOTE: phase cutting controller can generate electronic noise

REE		050TR0	100TR0
Art. no.		*2674*	*2675*
Voltage	V	230 1~	230 1~
Current	A	0.5...5	1...10
Fuse	A	FF8	FF14
Enclosure	IP	54	54
Weight	kg	0.8	0.8



L1-N:
Input to bypass the on/off contact
230 V non-controlled output

FT-FT
Connection for thermostat, timer, frostprotection, on/off-switch at a distance

N-A
Alarm output in case of motor fault
230 VAC, 2A

TK-TK
Input thermal contacts of the motor



MTV 1/010

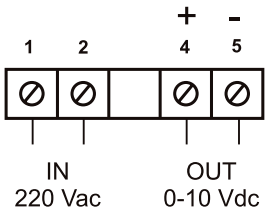
Speed controller

Speed controller with 0-10 V output. Combined flush or surface mounting.

For the manual control of speed and air flow of electrical fans with 0-10 V input. The jetproof IP 54 enclosure is achieved with the included surface mounting case.

		MTV 1/010
Art. no.		*30650*
Voltage supply	V	230 V
Output 0-10 V, Imax	mA	8
Enclosure class	IP	44
Weight	kg	0.2
Color		white

(Flush-mounting without the surface mounting case,gives a splash proof IP 44 enclosure also suitable for highly demand environments as bathrooms etc).





MTP 10

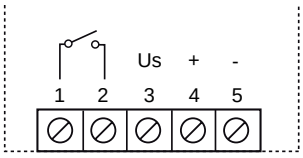
Speed controller

Potentiometer 10 kΩ. Combined flush or surface mounting.
For the manual control of speed and air

flow of electrical fans with 0-10 V output. The jetproof IP 54 enclosure is achieved with the included surface mounting case. Flush-mounting without the surface

		MTP 10
Art. no.		*32731*
Voltage supply	V DC	10
Control signal	kΩ	0...10
Working range	V	0...10
Contact		1 NO
Switching capacity		4A/250V
Enclosure class	IP	44
Weight	kg	0.2

mounting case, gives a splash proof IP 44 enclosure also suitable for highly demand environments as bathrooms etc.



Us = 10V Supply
+ = 0-10V Output signal
- = GND



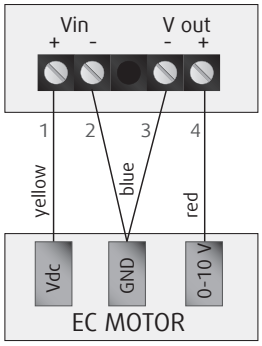
MTP 20

Potentiometer

3-step potentiometer for speed control with on/off function. These control switches are to be used in combination with motors/ controls from which the 10 V supply voltage is converted into three steps to obtain a minimum, mid and maximum position.

Position 1 and 2 can be adjusted to environmental requirements
Combined flush or surface mounting. Flush-mounting without the surface mounting case, gives a splash proof IP 44 enclosure also suitable for highly demand environments as bathrooms etc).

		MTP 20
Art. no.		*310220*
Voltage supply	V	10...15 DC
Control signal	kΩ	0...20
Rangeability	V	0...10
Enclosure class	IP	44...54
Weight	kg	0,2



Red: Voltage output +10V max 1.1 mA
Yellow: Control input 0-10Vdc
Blue: GND



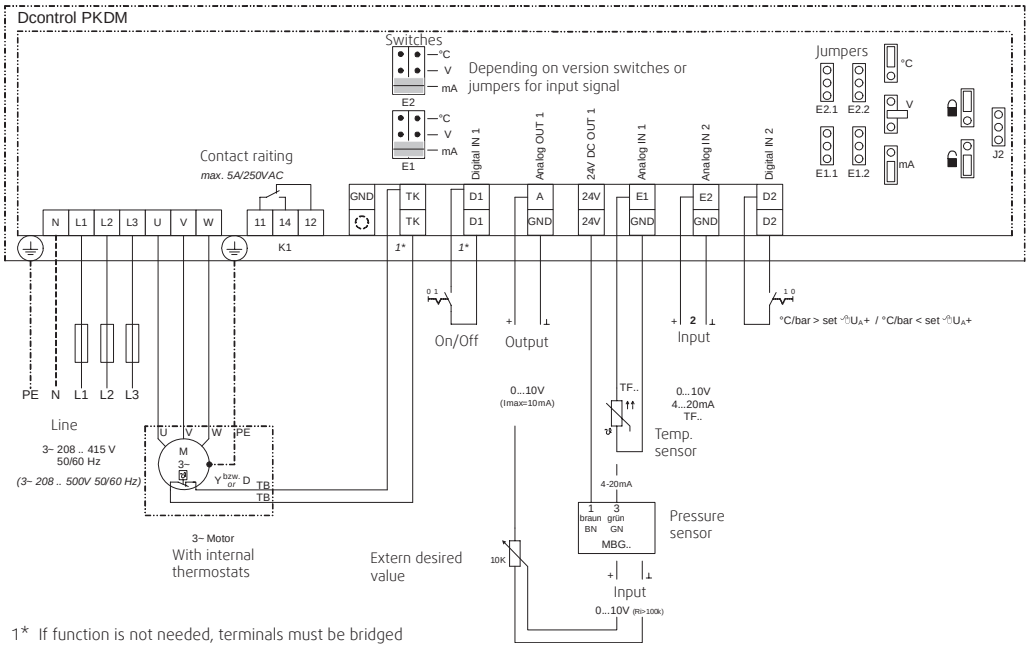
PKDM12

Thyristor power unit (400V)

Stepless phase cutting controller for 3~400 V/50 Hz motors with motor protection. It has a connection for a potentiometer or an external control signal 0...10 V, 0...20 mA or 4...20 mA. The control signal can be choosen by an internal jumper. Internal potentiometer for setting set point, min. speed, max. speed and p-band. Digital input for on/off. Temperature control possible. Several motors can be connected in parallel as long as the total current does not exceed the current range. Fans to be used with this controller should be designed for thyristor speed control.

NOTE: phase cutting controller can generate electronic noise!

		PKDM12
Art. no.		*11452*
Voltage	V	208...415
Phase	~	3
Frequency	Hz	50/60
Current	A	12
Min. motor current	A	0.2
Output voltage appr.	%	0...100
Max. power dissipation	W	55
Control signal		0...10V/4...20mA
Recom. fuse	A	FF30A 10x38mm
Ambient temperature	°C	40
Enclosure class	IP	54
Weight	kg	3.4
WxHxD	mm	270x323x163



1* If function is not needed, terminals must be bridged



FRQS(5)-E

Frequency inverter

with 5-step switch for 1~ fans with all pole sine filter.

The FRGS-E/FRQ5S-E frequency inverters have integrated all pole sine filters as standard. Therfore there is no need for shielded cables for the installation. This makes the unit also perfectly suited to retrofit into existing systems. The sine filters enable existing non-shielded cables to be retained. This units also reliably control motors which, due to their design, are not usually considered suitable for frequency inverter operation i.e. external rotor motors.

- Save and trouble free motor operation with integrated, all pole effective sine filter
- Integrated 5-Step switch Step 0 = 0 Hz; Step 1 = 10 Hz; Step 2 = 20 Hz; Step 3 = 30 Hz; Step 4 = 40 Hz; Step 5 = 50 Hz
- Potential-free operation notification
- Enable contact section for a stand-by switch or electronic reset
- Motor protection by connecting thermostats "TB" or thermistors "TP"
- Interference emission EN 61000-6-3
- Interference immunity EN 61000-6-2
- Complete range in IP54
- Trouble free parallel operation of motors
- No danger to the motors through voltage peaks, bearing current, etc.
- No limit of motor cable length
- Retrofit in installations with existing wiring (unshielded cables)
- Operation without electromagnetic motor noise
- Wide voltage range 1~ 208 V - 277 V, 50/60 Hz

When operating with Explosion proof fans the FRQ (5) has to be placed outside the EX zone!

FRQ		FRQS-E-6A	FRQS-E-10A	FRQ5S-E-6A	FRQ5S-E-10A
Art. no.		*37419*	*37420*	*37421*	*37422*
Voltage	V	208...277	208...277	208...277	208...277
Phase	~	1	1	1	1
Frequency	Hz	50...60	50...60	50...60	50...60
Max. current	A	6	10	6	10
Recom. fuse	A	10	16	10	16
Ambient temp.	°C	55	55	55	55
Hum, non cond.	%	85	85	85	85
Enclosure class	IP	54	54	54	54
Weight	kg	5.7	6.8	5.7	6.8
Width	mm	250	250	250	250
Height	mm	302	302	302	302
Depth	mm	195.5	195.5	195.5	195.5



FRQ(5)

Frequency inverter

Speed controller, with or without 5-step switch for 3~ fan. Optimized frequency inverters for the control of one fan motor for frequency converter suitable isolation system and bearings e.g. IE2

- FRQ5: Integrated 5-Step switch
- FRQ5: Step 0 = 0 Hz; Step 1 = 10 Hz; Step 2 = 20 Hz; Step 3 = 30 Hz; Step 4 = 40 Hz; Step 5 = 50 Hz
- Enable contact section
- Potential-free operation notification
- Motor protection by connecting thermostats "TB" or thermistors "TP"
- Control lamp with fault signal
- Interference emission EN 61000-6-3
- Interference immunity EN 61000-6-2
- Parallel operation of several motors is not allowed
- Max. length of controller (poti) cable 100 m
- Max. length of motor cable 10 m (screened)

Please note: Not suitable for external rotor motors.

When operating with Explosion proof fans the FRQ (5) has to be placed outside the EX zone!

FRQ		FRQ 4A	FRQ 10A	FRQ 16A	FRQ5 4A	FRQ5 10A	FRQ5 16A
Art. no.		*36227*	*36228*	*37273*	*36229*	*36230*	*37274*
Voltage	V	208...480	208...480	208...480	208...480	208...480	208...480
Phase	~	3	3	3	3	3	3
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	50...60
Max. current	A	4	10	16	4	10	16
Recom. fuse	A	10	16	20	10	16	20
Ambient temp.	°C	40	40	40	40	40	40
Hum, non cond.	%	85	85	85	85	85	85
Enclosure class	IP	54	54	54	54	54	54
Weight	kg	2.4	5.1	5.9	2.4	5.1	6.0
Width	mm	240	250^{+2}	250^{+2}	240	250^{+2}	250^{+2}
Height	mm	284	302	302	284	302	302
Depth	mm	115	195.5	195.5	132	212	212



FRQ(5)S

Frequency inverter

Speed controller with 0-10 V input for 3~ fans equipped with all pole sine filter.

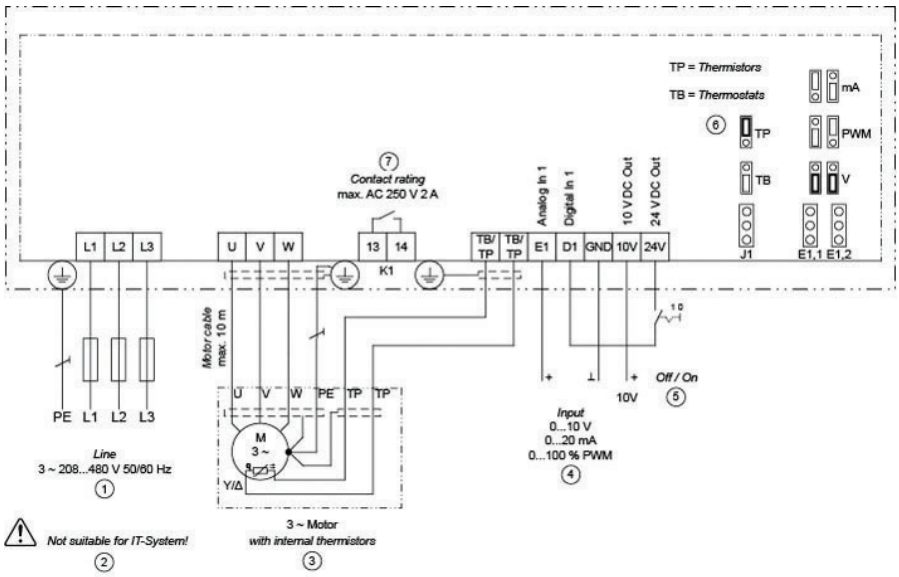
The FRQS/FRQ5S frequency inverters have integrated all pole sine filters as standard. Therfore there is no need for shielded cables for the installation. This makes the unit also perfectly suited for retrofitting into existing systems. The sine filters enable existing non-shielded cables to be retained. This units also reliably controls motors which, due to their design, are not usually considered suitable for frequency inverter operation i.e. external rotor motors.

- Save and trouble free motor operation with integrated, all pole effective sine filter
- Analogue input for external speed setup value(0-10 V, 0-20 mA, PWM)
- 10 V DC output for external potentiometer
- Potential-free operation notification
- Enable contact section for a stand-by switch or electronic reset
- Motor protection by connecting thermostats "TB" or thermistors "TP"
- Interference emission EN 61000-6-3
- Interference immunity EN 61000-6-2
- Complete range in IP54
- Trouble free parallel operation of motors
- No danger to the motors through voltage peaks, bearing current, etc.
- No limit of motor cable length
- Retrofit in installations with existing wiring(unshielded cables)
- Operation without electromagnetic motor noise
- Wide voltage range 3~ 208 V-480 V, 50/60 Hz

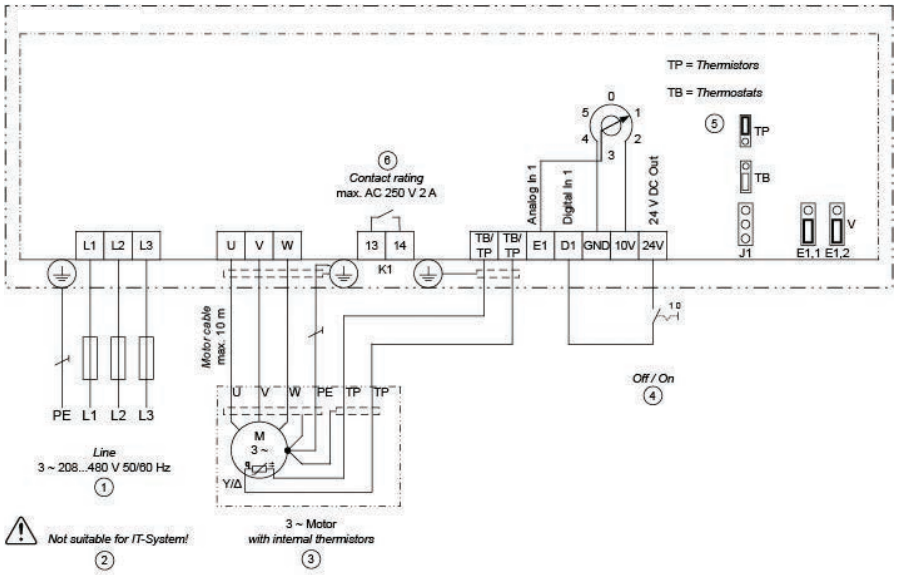
When operating with Explosion proof fans the FRQ(5)S has to be placed outside the EX zone!

FRQ		FRQS 4A	FRQS 10A	FRQS-16A	FRQ5S 4A	FRQ5S 10A	FRQ5S-16A
Art. no.		*36231*	*36232*	*37275*	*36233*	*36234*	*37276*
Voltage	V	208...480	208...480	208...480	208...480	208...480	208...480
Phase	~	3	3	3	3	3	3
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	50...60
Max. current	A	4	10	16	4	10	16
Max. power	kW	1.5	4	7.5	1.5	4	7.5
Recom. fuse	A	10	16	20	10	16	20
Ambient temp.	°C	40	40	40	40	40	40
Hum, non cond.	%	85	85	85	85	85	85
Enclosure class	IP	54	54	54	54	54	54
Weight	kg	5.4	5.3	7.0	5.4	6.3	7.1
Width	mm	250^{+2}	250^{+2}	250^{+2}	250^{+2}	250^{+2}	250^{+2}
Height	mm	302	302	302	302	302	302
Depth	mm	195.5	195.5	195.5	212	212	212

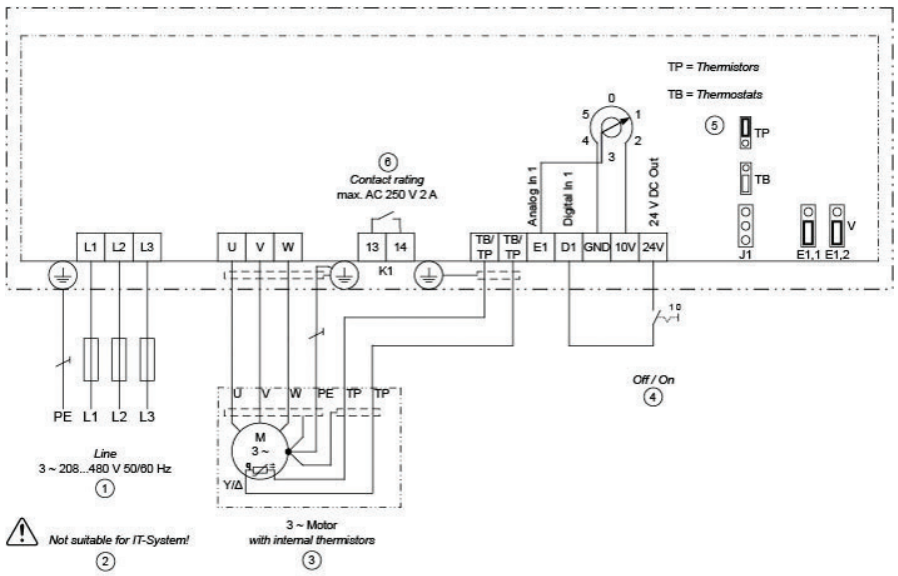
Wiring diagram FRQ 4/10A



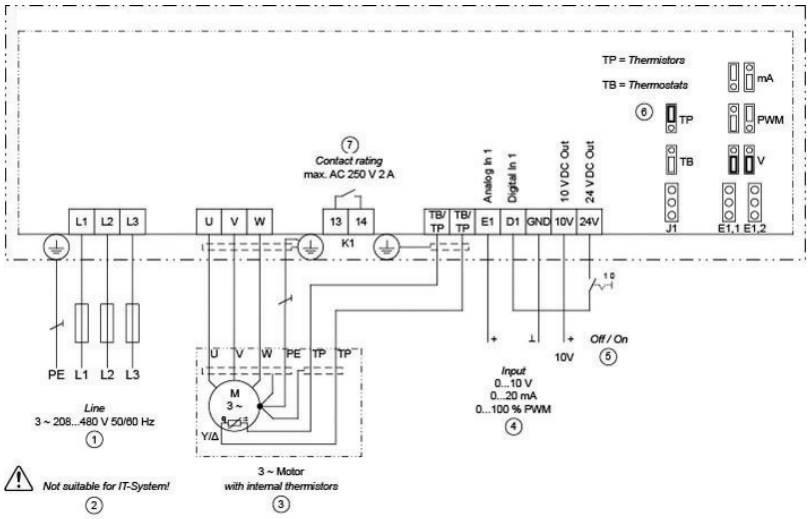
Wiring diagram FRQ5 4/10/16A



Wiring diagram FRQ5S 4/10A



Wiring diagram FRQS 4/10A





FC102

Frequency inverter

Speed controller for 3 ~ fans.

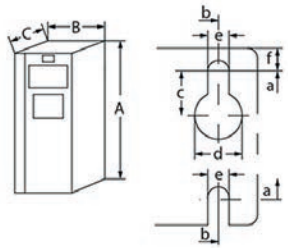
- Optimized frequency inverters for energetically optimal operation
- Optimum EMC characteristics through built-in rear chokes and high quality EMC filter
- Graphical control unit features intuitive operation and allows a quick setup
- Permanent operation at maximum output power and ambient temperature up to 50 °C
- Protection class IP55 with integrated mains disconnector switch
- By default coated electronics
- Newly developed construction and sophisticated cooling technology ensures low power dissipation and also saves energy

The frequency inverter must be installed outside of the potentially explosive atmosphere for operation in hazardous areas!

FC		FC102-1.1kW/3A	FC102-1.5kW/4.1A	FC102-2.2kW/5.6A	FC102-3.0kW/7.2A	FC102-4.0kW/10A	FC102-5.5kW/13A
Art. no.		*36158*	*36159*	*36160*	*36161*	*36162*	*36163*
Voltage	V	308...480	308...480	308...480	308...480	308...480	308...480
Phase	~	3	3	3	3	3	3
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	50...60
Power	kW	1.1	1.5	2.2	3	4	5.5
Max. current	A	3	4.1	5.6	7.2	10	13
Ambient temp.	°C	50	50	50	50	50	50
Enclosure class	IP	55	55	55	55	55	55
Weight	kg	9.4	9.4	9.4	9.4	9.4	14.2

FC		FC102-7.5kW/16A	FC102-11kW/24A	FC102-15kW/32A	FC102-18.5kW/37.5A	FC102-22kW/44A	FC102-30kW/61A
Art. no.		*36164*	*36165*	*36166*	*36167*	*36168*	*36169*
Voltage	V	308...480	308...480	308...480	308...480	308...480	308...480
Phase	~	3	3	3	3	3	3
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	50...60
Power	kW	7.5	11	15	18.5	22	30
Max. current	A	16	24	32	37.5	44	61
Ambient temp.	°C	50	50	50	50	50	50
Enclosure class	IP	55	55	55	55	55	55
Weight	kg	14.2	23	23	23	28	28

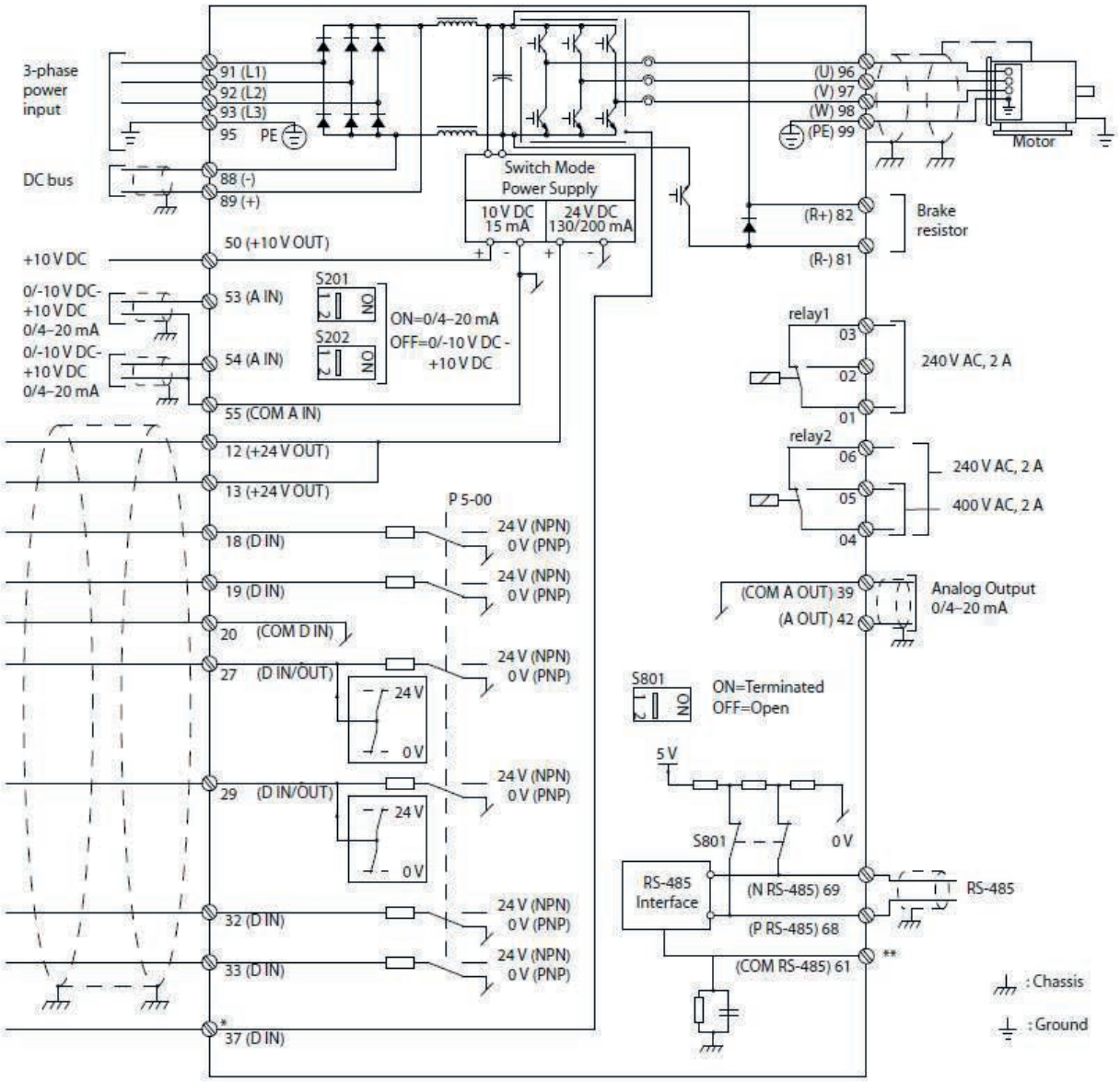
FC		FC102-37kW/73A	FC102-45kW/90A	FC102-55kW/106A	FC102-75kW/147A	FC102-90kW/177A	
Art. no.		*36170*	*36171*	*36172*	*36173*	*36174*	
Voltage	V	308...480	308...480	308...480	308...480	308...480	
Phase	~	3	3	3	3	3	
Frequency	Hz	50...60	50...60	50...60	50...60	50...60	
Power	kW	37	45	55	75	90	
Max. current	A	73	90	106	147	177	
Ambient temp.	°C	50	50	50	50	50	
Enclosure class	IP	55	55	55	55	55	
Weight	kg	45	45	45	65	65	



drilling pattern (two holes)

	A	B	C	a	b	c	d	e	f
1.1 - 4.0 kW	268	90	205	257	70	8	11	5.5	9
5.5 - 7.5 kW	268	130	205	257	110	8	11	5.5	9
11.0 - 18.5 kW	399	165	248	380	140	8	12	6.8	7.9
22.0 - 37.0 kW	520	231	242	495	200	-	-	8.5	15
45.0 - 55.0 kW	550	308	333	521	270	-	-	8.5	17
75.0 - 90.0 kW	660	370	333	631	330	-	-	8.5	17

Wiring diagram FC102





EC-Vent control board (CB)

- Built-in transformer (230 V/24 V)
- Can control two fans
- Can control heater/cooler, 0..10V
- 3 inputs, digital / 0...10 V / PT1000
- 3 ouputs, digital / 0...10 V
- 1 ouput EC motor, PWM
- 24 V supply to damper and sensors etc.

The EC-Vent is more than just a control for EC fans. It is a tool that, together with EC fans, simplifies demand-controlled ventilation making it easy to set up and operate. The unique feature of the EC-Vent is that it allows for a number of control options with up to five sensors (analoguous or digital). A single parameter such as temperature can be controlled at several different locations. Alternatively, various parameters, (CO_2, humidity, temperature, etc.) can be combined to control the fan directly or as a complement to the weekly schedule and/or the manual control to boost the ventilation if needed. It can also be used to control a heater or an extra fan via 0-10 V signal. The EC-Vent consists of two units, one central unit to be placed near the fan and a single display unit normally sited in a room easily accessible to the user. These units are connected to each other with a low voltage cable. The EC-Vent offers the opportunity to connect up to 5 different sensors that simultaneously detect the actual ventilation requirements and in this way the EC fan will be steplessly controlled to ventilate exactly as much as is needed, no more, no less. The result is a good indoor air quality and the user avoids high electricity bills.
The central unit for the EC-Vent can be operated stand-alone from the room unit.

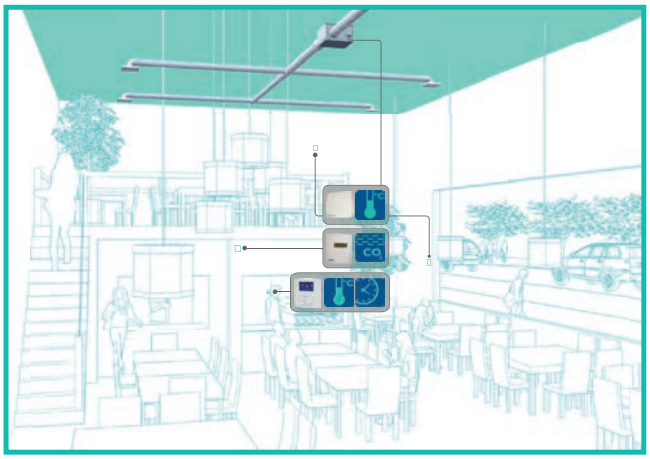
EC-Vent Room Unit RU (Art. no. 3018) is needed for configuration.

		CB
Art. no.		*3115*
Voltage	V	230
Phase	~	1
Frequency	Hz	50/60
Current	A	6
Recommended fuse	A	10
Supply to sensor, 24V DC	mA	150
Ambient temp.	°C	-20...50
Enclosure class	IP	44
Weight	kg	0.95

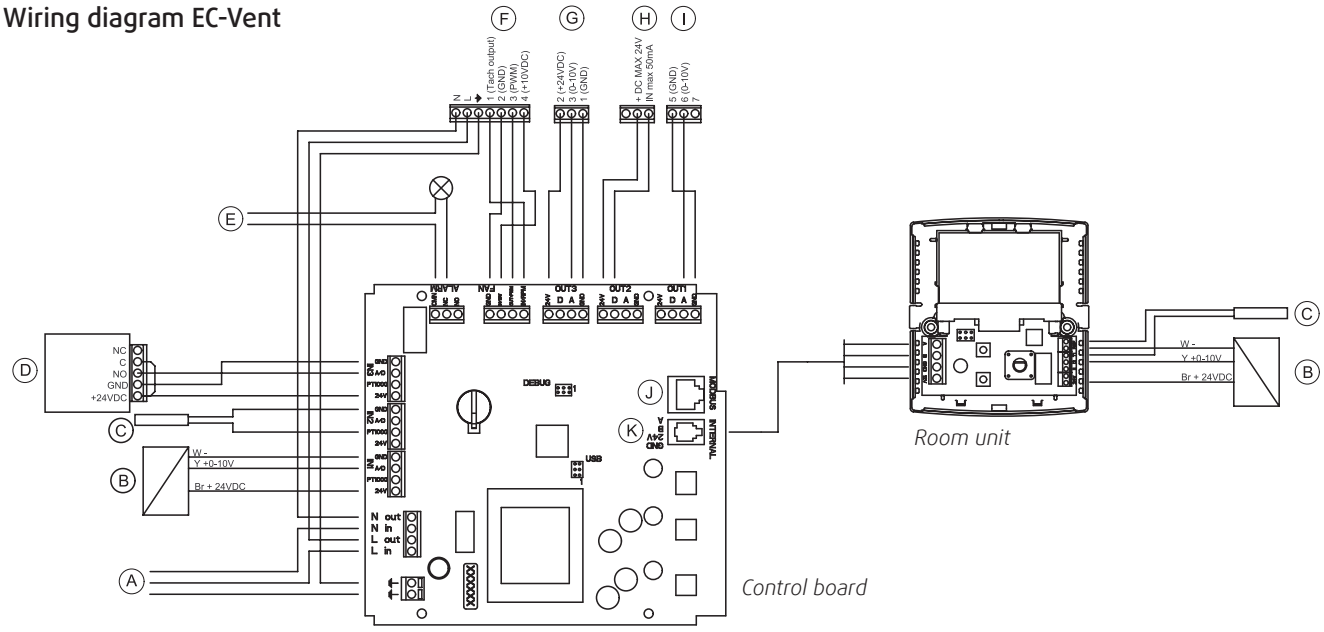
Fitness centre



Restaurant



Wiring diagram EC-Vent





EC-Vent room unit (RU)

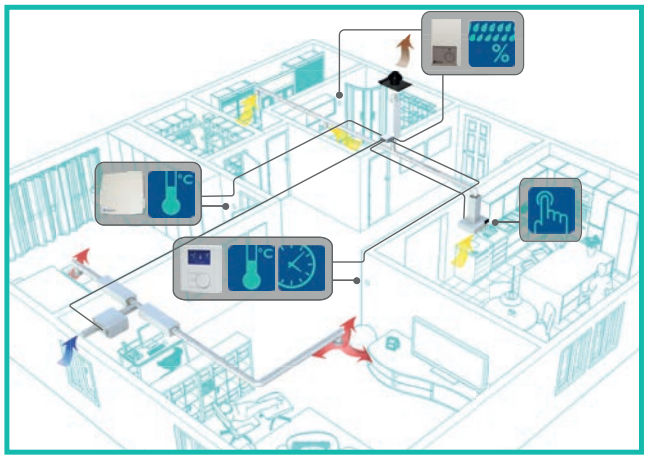
- Ready for connection to CO_2, moisture, temperature, presence and pressure sensors, etc.
- Built-in humidity and temperature sensors
- User friendly menu
- Away mode and boost ventilation function
- - 1 input, digital /0...10V/PT1000 and 1 input, digital/0...10V
- - including 10 m connection cable

RU Room Unit for the initial configuration of the CB control board.
Wall mounted unit, display with blue background light. The EC-Vent control system consists of two units, one central control unit CB and one room unit RU, connected via a low voltage cable with a maximum length of 30m. The room unit is equipped with a humidity and temperature sensor, and has two inputs for further sensors.The result is a good indoor air quality and the user avoids high electricity bills.

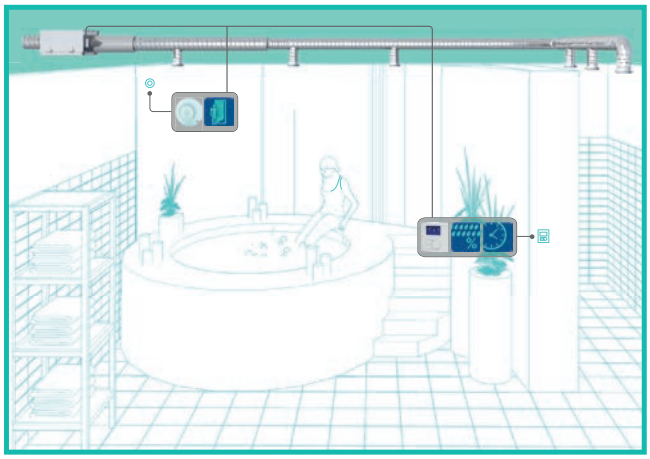
EC-Vent Control Board (Art. no. 3115) is needed!

		RU
Art. no.		3018
Voltage	V	24
Phase	DC	~
Ambient temp.	°C	0...50
Enclosure class	IP	20
Weight	kg	0.3

Residential



Spa





EC-Basic controller

The EC-Basic range of controllers has been developed as an economical solution to meet simple control requirements such as temperature, humidity, temperature and CO_2 and universal 0-10 V.

EC-Basic can be used with all single and three phase EC fans even for existing systems. The controllers are simple and easy to connect, install and set up. EC-Basic is an energy-efficient controller.
Only the energy needed to create the right level of comfort is used. The integrated sensor (external sensor for the universal controller) measures the current conditions. The fans automatically slow down when there is less demand.

EC-Basic	Art. no.	Voltage/Frequency	Function
EC-Basic-**T**	*24805*	100-240V, 50/60 Hz	Temperature controller
EC-Basic-**U**	*24806*	100-240V, 50/60 Hz	Universal controller, 0-10V
EC-Basic-**H**	*24807*	100-240V, 50/60 Hz	Humidity controller
EC-Basic-**CO_2/T**	*24808*	100-240V, 50/60 Hz	CO_2 and temperature controller



TG-UH/PT1000

Outdoor sensor

For measuring outdoor temperature.

		TG-UH/PT1000
Art. no.		*35203*
Temperature range	°C	-30...+70
Enclosure class	IP	65
Width	mm	70
Height	mm	93
Depth	mm	46



TG-KH/PT1000

Duct sensor

Duct sensor for measuring air temperature in ventilation ducts.

		TG-KH/PT1000
Art. no.		*202705*
Temperature range	°C	-30 – +70°C
Time constant		16 s
Insert length	mm	60...205
Diameter	mm	8
Enclosure class	IP	65



TG-R4/R5/PT1000

Room sensor

Room sensor with setpoint.
For measuring room temperature, -R4 with setpoint adjustment, -R5 without setpoint adjustment.

		TG-R4/PT1000	TG-R5/PT1000
Art. no.		*31430*	*5404*
Temperature range	°C	0...50	0...50
Control signal		PT1000	PT1000
Enclosure class	IP	30	30
Width	mm	86	86
Height	mm	86	86
Depth	mm	30	30



TFR

Room temperatur sensor

Room temperature sensor with PTC element. With over-voltage protection (R20°C approx. 1.9 kΩ). The PTC element is supplied loose in the housing. The element is fitted in one of the cable conduits.

		TFR
Art. no.		*5158*
Temperature range of adjustment	°C	-20...+60
Resistance at +20°C	Ω	1900
Enclosure class	IP	54
Width	mm	75
Height	mm	75
Depth	mm	37



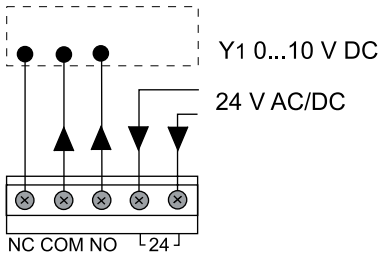
IR24-P

Presence detector

A detector that gives a signal when someone is present in the room under supervision. The detector has a pulse detecting function that minimizes the risk for false alarm. Settable output on/off delay. Intended for wall or ceiling mounting.

IR24-P is a presence detector designed for automatic ventilation control of HVAC systems.

		IR24-P
Art. no.		*6995*
Voltage supply	V	24 V AC/DC
Permitted range for ambient temperature	°C	-20...+50
Permitted max. ambient humidity	%RH	95
Enclosure class	IP	40
Circuit-breaking relay	A	NC/NO
Switching capacity		24V DC/0.2A
Width	mm	66
Height	mm	112
Depth	mm	45

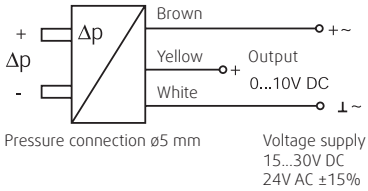




DSG

Pressure sensor

A membrane-type sensor for measuring the differential pressure in non-aggressive gases. The difference in pressure between the sensor's plus (+) and minus (-) connections affects the membrane, which generates a voltage via a differential transformer. This voltage converts into a continuous DC voltage proportional to the membrane's position. Cable length approx. 0.5m.
Output 0-10 V.



DSG		200	500	1000
Art. no.		*5169*	*5170*	*9466*
Voltage supply	V	15V-30V DC/24V~± 15%		
Output 0-10 V, Imax	mA	2	2	2
Permitted range for ambient temperature	°C	0...50	0...50	0...50
Current	A	0.012	0.012	0.012
Pressure range	Pa	0...200	0...500	0...1000
Enclosure class	IP	65	65	65



CO2
CO2RT-R-D

CO_2 transmitter

Measuring system with CO_2 sensor.
The CO_2 concentration is measured by means of infrared light, a technique that measures the absorption in gases. It has a reference measuring system that compensates values in relation to changes in light intensity.

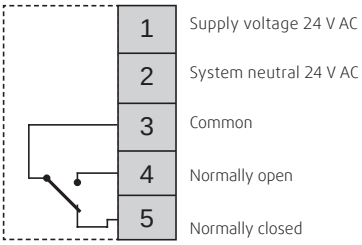
The method gives several advantages:

- Very high accuracy
- Exact identification of the detected gas
- Low risk for contamination
- Short response time
- High long term stability
- Long calibration interval (>5 years)

Display: The display models have an LCD-display showing actual values in an alternated series.

Applications: Measuring the CO_2 level gives a direct indication about the indoor air quality. With this basic information ventilation can be controlled with high precision and air quality improved. At the same time supply air will only be increased when it is necessary thus cutting energy costs.

CO2RT-R-D



		Systemair-E CO2	Systemair-E-D CO2	Systemair-1 CO2	Systemair-2 CO2	Systemair-3 CO2	CO2RT-R-D
Art. no.		*14904*	*14905*	*14906*	*14907*	*14908*	*6993*
Voltage	V	24	24	24	24	24	24
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Working range		0...2000 ppm	0...2000 ppm	-	-	-	0...2000 ppm
Power consumption	W	0.7	0.7	0.65	0.65	0.65	3
Circuit-breaking relay	A	-	-	-	-	-	1
Permitted range for ambient temperature	°C	0...+55	0...+55	0...+50	0...+50	0...+50	-5...+55
Permitted relative humidity, non condensating	%	0...99	0...99	0...95	0...95	0...95	0...90
Enclosure class	IP	50	50	-	-	-	30
Weight	kg	-	-	0.2	0.22	-	0.11
Remarks		without display	without display	for duct installation	for duct installation	for duct installation	-



CXE/AVC

Several sensors can be combined with the CXE/AV universal control module. The actual value measured at the sensor is compared with the setpoint. This results in the 0-10 V output signal. Two 0-10 V outputs are integrated. These serve to activate EC fans, frequency inverters or other devices.

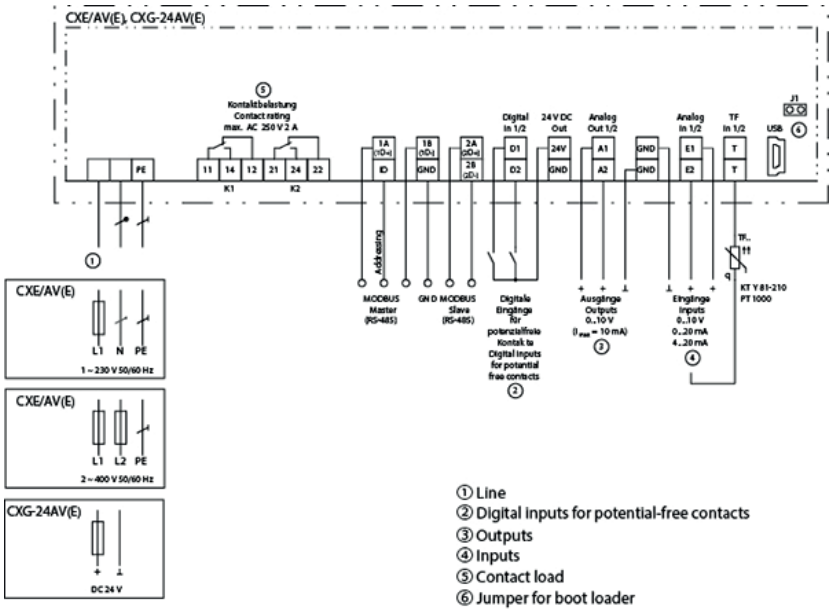
Optionally, connected field devices (frequency inverters/EC fans with plugged MODBUS add-on module) can be activated by the integrated MODBUS-RTU interface (MODBUS Master function). The device also contains two separate control circuits, a real time clock and timer functions.

The universal control modules are especially suitable for the following applications: Refrigeration, air conditioning, general ventilation tasks, clean room technology. For typical applications in the areas mentioned, fast start-up is possible by selecting pre-programmed operating modes.

		CXE/AVC
Art. no.		37256
Voltage	V	230
Frequency	Hz	50/60
Permitted range for ambient temperature	°C	-20...+55
Permitted range for humidity, non condensating	%RH	85
Enclosure class	IP	54
Weight	kg	0.9
WxHxT	mm	223x200x115

Control module

- Integrated voltage supply for sensors: +24 V, max. 70 mA
- Integrated analoguous outputs A1 and A2: 0-10 V, Imax 10 mA (short-circuit-proof)
- Maximum load of relays K1 and K2: AC 250 V / 2 A
- Maximum ambient temperature: +55 °C
- Interference emission according to EN 61000-6-3
- Interference immunity according to EN 61000-6-2
- Setting of the desired speed through device or by external default, e.g. 0-10 V
- Connecting pressure sensors (refrigeration), measuring range 0-30 bar, 0-50 bar
- Connecting temperature sensors, device measuring range -27...+75 °C, sensor measuring range -10...+120 °C
- Connecting differential pressure sensors (air conditioning), measuring range 0-6000 Pa, measuring of volume flows up to 65,000 m3/h
- Connecting air velocity sensors, measuring range 0-1 m/s, 0-10 m/s
- Connecting additional sensors, e.g. combination sensors, CO_2, sensor signal 0-10 V / 0-20 mA / 4-20 mA



① Line
② Digital inputs for potential-free contacts
③ Outputs
④ Inputs
⑤ Contact load
⑥ Jumper for boot loader

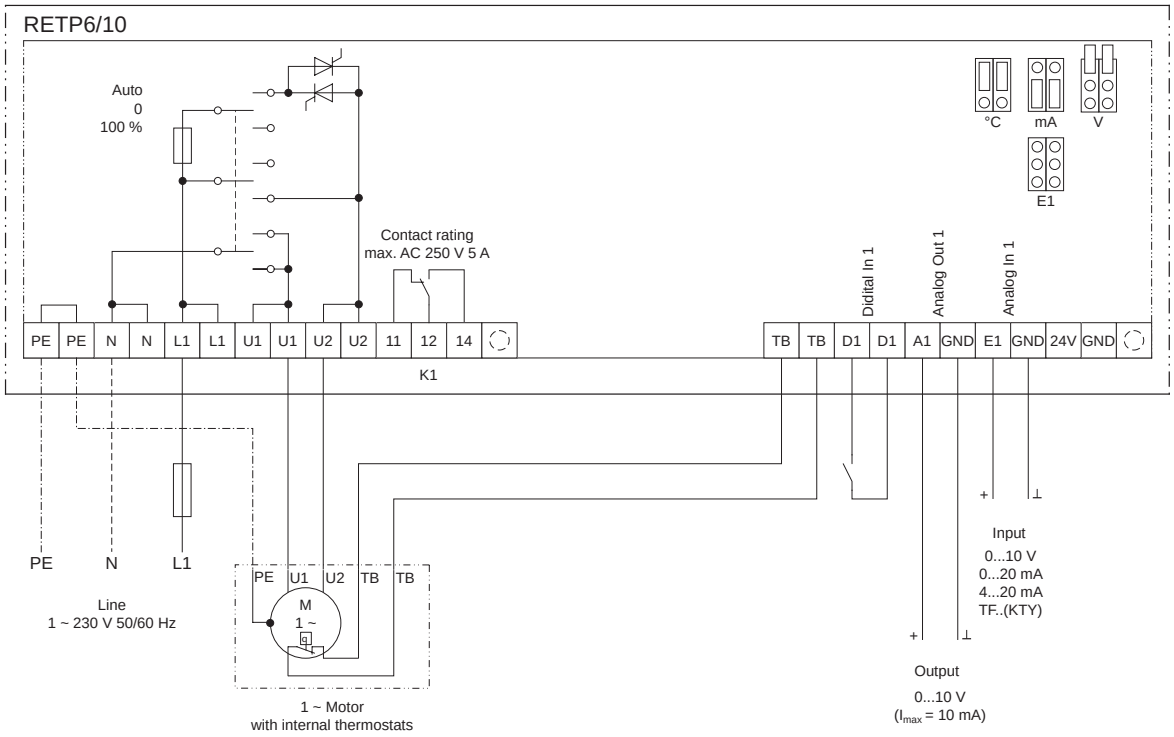


RETP

Pressure/Temperature regulation, single phase

Thyristor-type stepless pressure or temperature regulation (P-regulation) for single-phase motors with variable voltage control. Used, for example, for room temperature regulation where the heating is conducted by air. An integral motor protection device is included switching off the supply voltage to the fan if the thermal contact in the fan motor is activated. Regulated output voltage approx. 20-100%. Permitted relative humidity, non condensating 85%. Voltage supply +24 V ±20%, Imax 250 mA.

		RETP 6/10
Art. no.		*32293/32294*
Voltage	V	230~
Frequency	Hz	50-60
Current	A	6/10
Min. motor current	A	0.2
Output 0-10 V, Imax	mA	10
Recommended fuse	A	16
Max. power disspation	W	10/40
Perm. ambient temp.	°C	40
Enclosure class	IP	54
WxHxD RETP 6	mm	223x200x131
WxHxD RETP 10	mm	240x284x132
Weight	kg	1.3/2.4





REPT

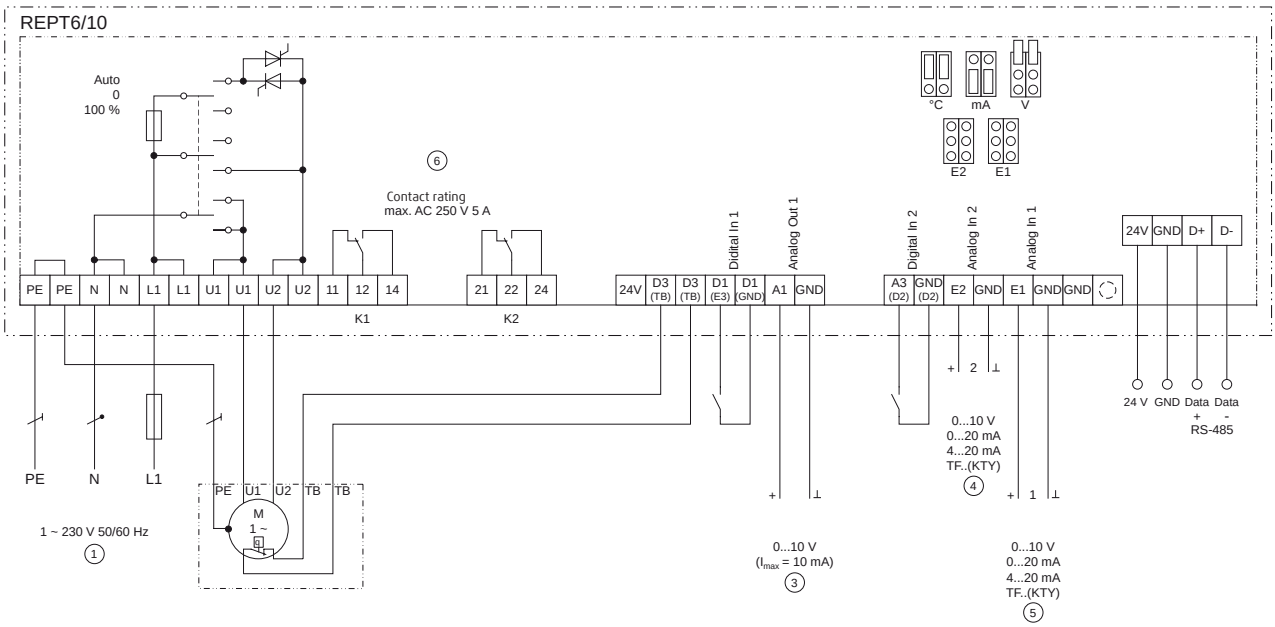
Digital voltage regulation, single phase

Thyristor-type digital regulation for single-phase motors with variable voltage control. Used, for example, for the pressure regulation of fans in systems where there is a risk of increased draught, and compensation is required for outdoor temperature conditions and other pressure conditions. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated.

Radio interference suppression in accordance with EN 50081-1 and EN 50082-2

The casing is made from shockproof polycarbonate, the menu languages include English, German and Swedish.

		REPT 6/10
Art. no.		*5698/5699*
Voltage	V	230
Frequency	Hz	50-60
Current	A	6/10
Min. motor current	A	0.2
Output 0-10 V, Imax	mA	10
Max. power disspation	W	16
Perm. ambient temp.	°C	0....40
Enclosure class	IP	54
WxHxD REPT 6	mm	223x200x131
WxHxD REPT 10	mm	240x284x132
Weight	kg	1.4/2.0





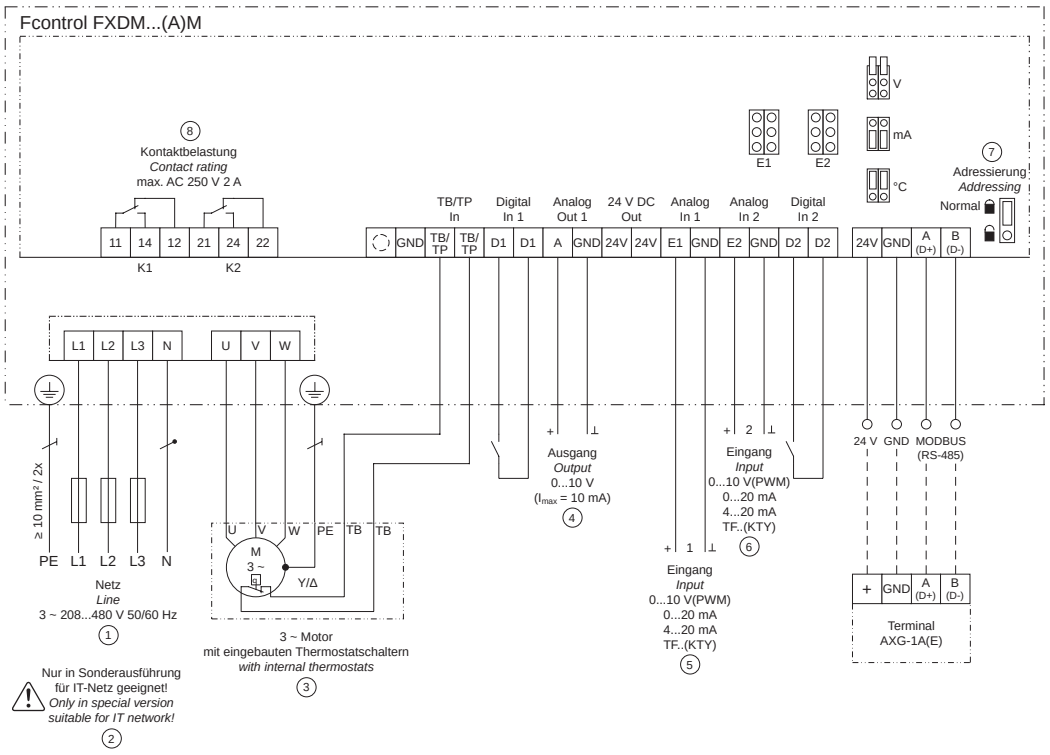
FXDM

Frequency inverter

Frequency regulator with multifunction display for constant temperature or constant pressure in duct systems with integrated process controller (PID free programmable) or with 0..10 V control signal. Two setpoints or manual mode is possible. 2 digital inputs, 2 analoguous inputs, 1 analoguous output 0..10 V and 2 relays with change-over contact. All in-/outputs are programmable.

Total motor protection using thermo contact / thermistor connection. With preprogram modes also for outdoor compensation for easy setup. Menu languages are English, German, Swedish, +24 V AC / Imax 120 mA power supply for sensors. Making up to three settable speed ranges. Min. and max. speed limitations.
Integrated allpole sine filter for external rotor motors. Absolute parallel operation of fans, no risk of damage for motor. Screened motor cables are not required!

FXDM		5	8	13	18
Art. no.		*31387*	*31388*	*31389*	*31390*
Voltage	V	208...480	208...480	208...480	208...480
Phase	~	3	3	3	3
Frequency	Hz	50/60	50/60	50/60	50/60
Max. current	A	5	8	14	18
Recom. fuse	max A	10	10	16	20
Ambient temp.	°C	40	40	40	40
Enclosure class	IP	54	54	54	54
Weight	kg	7.2	7.9	8.7	14.2
Width	mm	252	252	252	252
Height	mm	302	302	302	355
Depth	mm	195.5	195.5	195.5	239





AWE-SK

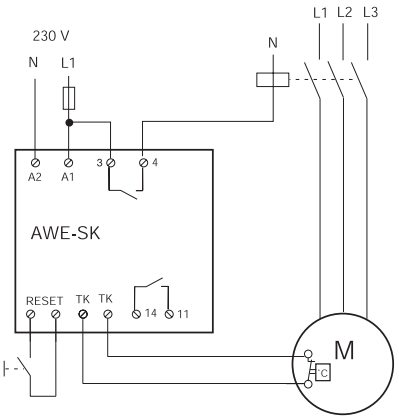
Motor protection

Thermal contact motor protection device for placing on a control panel. The AWE-SK is connected to the motor relay control circuit.

Function

If the thermal contact in the motor is tripped, the AWE-SK contact relay breaks the control circuit connecting with the motor, the warning light illuminates and the fan stops. The motor will still be without current after the thermal contact in the motor is closed. The motor protector is reset by pressing the red button marked "Reset" on the front panel, or by closing an external contact connected to the "Reset" connection block. The AWE-SK does not trip in the event of a mains power supply interruption. The 14-11 connection block provides a potential-free alarm contact producing an external signal when the relay is tripped.

		AWE-SK
Art. no.		*5138*
Voltage	V	0...230
Max. current	A	2
Ambient temperature	°C	0...40
Enclosure class	IP	20
Weight	kg	0.15
WxHxD	mm	48x96x42





S-ET 10, S-ET 10E

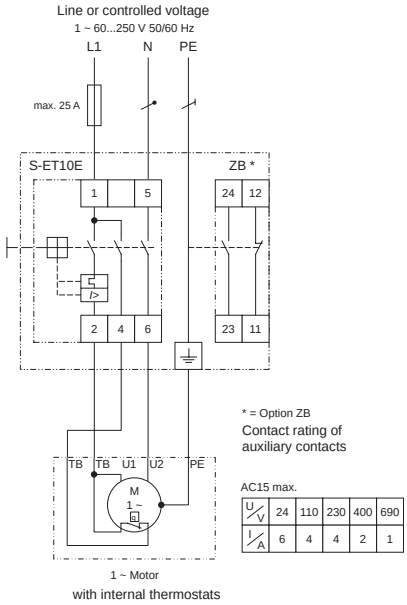
Motor protection, 1~

The S-ET 10 (for wall mounting) and S-ET 10E (for rail mounting) switches off the supply voltage to the motor when the thermal contact in the motor windings is tripped. The motor protector is connected to a 230 V supply and also to the thermal contact in the motor. The motor protector is reset by pressing the black button as soon as the motor windings have cooled sufficiently. The motor protector can also be used in conjunction with a transformer. The S-ET has an alarm contact as an accessory. The alarm contact has a built-in potential-free contact for an external signal to indicate when the contact relay has been tripped.

S-ET		10	10E
Art. no.		*5154*	*5155*
Voltage	V	60...250	60...250
Current range	A	0.4...10	0.4...10
Ambient temp.	°C	-25...+40	-25...+55
Enclosure class	IP	55	20
Weight	kg	0.45	0.2
Width	mm	79	63
Height	mm	141	80
Depth	mm	80	76



Alarm contact must be ordered seperately!





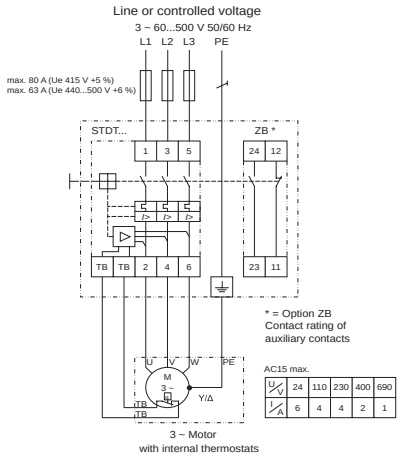
STDT 16, STDT 16E

Motor protection 3 ~

The STDT 16 (for wall mounting) and the STDT 16E (for rail mounting) switches off the supply voltage to the motor when the thermal contact in the motor windings is tripped. The motor protector is connected to a 400 V supply and also to the thermal contact in the motor.

The motor protector is reset by pressing the black button as soon as the motor windings have cooled sufficiently. The motor protector can also be used in conjunction with a transformer. An alarm contact (K) is available as an accessory. The alarm contact has an integral potential-free contact producing an external signal when the relay has tripped.

STDT		16	16E
Art. no.		*5152*	*5153*
Voltage	V	60...400	60...400
Phase	~	3	3
Current range	A	10...16	10...16
Ambient temp.	°C	-25...+40	-25...+40
Enclosure class	IP	55	20
Weight	kg	0.6	0.35
Width	mm	80	54
Height	mm	150	80
Depth	mm	98	76





Alarm contact must be ordered seperately!



MSEX

Motor protection

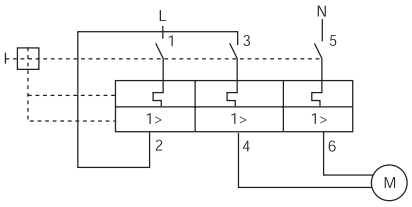
Motor protection switch intended for use in conjunction with EX 140 and EX 180 fans. The motor protector is set to the rated current of the connected fan. The motor protector is mounted on a rail, 356 mm wide. An MSEX-H auxiliary contact for the motor protector can be supplied, with an opening and closing switch. This auxiliary contact is fitted on to the front of the motor switch.



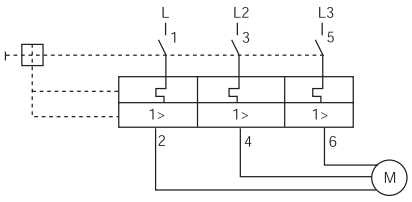
Enclosure MSEX-K is available as an accessory. This will fit both with and without an auxiliary contact. Two output apertures at the top and bottom.

MSEX		0.25-0.4	0.4-0.63
Art. no.		*5688*	*5689*
Max. power load	kW	0.09	0.12
Adjustm. range	A	0.25...0.4	0.4...0.63
Ambient temp.	°C	-25...+55	-25...+55
Enclosure	IP	20	20
MSEX		**0.63-1.0**	**1.0-1.6**
Art. no.		*5690*	*5368*
Max. power load	kW	0.25	0.57
Adjustm. range	A	0.63-1.0	1.0...1.6
Ambient temp.	°C	-25...+55	-25...+55
Enclosure	IP	20	20
MSEX		**2.5-4.0**	
Art. no.		*5369*	
Max. power load	kW	0.9	
Adjustm. range	A	2.5...4	
Ambient temp.	°C	-25...+55	
Enclosure	IP	20	

Single phase



Three phase



The MSEX must not be placed in the EX zone!



U-EK 230E

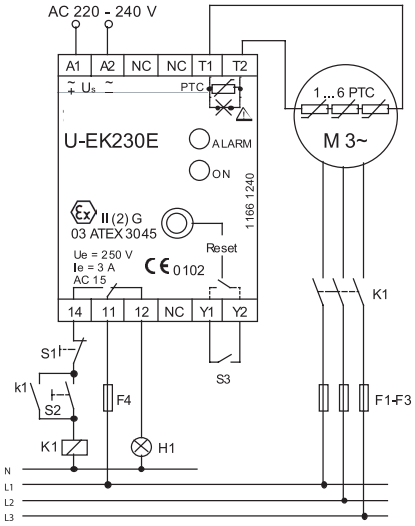
Thermistor motor protection

The U-EK 230E is a thermistor motor protection device which is intended for use in conjunction with a contactor for the protection of the Ex fans, it can also be used for fans with built-in thermistor. This is an electronic unit designed for snap fitting on to a 35 mm instrument rail. Fan motors have six series-connected thermistors, two per phase winding, whose resistance is determined by the motor temperature. When the motor temperature exceeds the permitted limit, the resistance rises sharply and the motor protector is triggered. When the motor protector has been triggered, the warning light marked "Alarm" is illuminated. The device is reset manually, either by pressing the "Reset" button, or by interrupting the voltage supply to the motor protector (stopping supply to A2) for approximately 10 seconds.
If a five-step transformer is used for regulating EX fans, the U-EK 230E should be connected to the transformer.

A casing is available as an accessory.

Do not place the U-EK 230E in the EX zone!

		U-EK 230E EX
Art. no.		*30199*
Voltage	V	230
Frequency	Hz	50
Max. current	A	6
Switching capacity		250V AC/3A
Ambient temperature	°C	-20...+50
Enclosure class	IP	20
Weight	kg	0.1
Width	mm	35
Height	mm	116
Depth	mm	58





Pulser

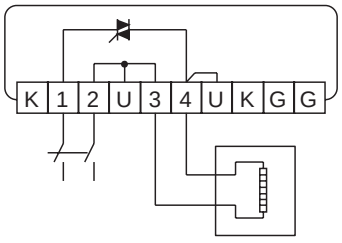
Electronic temperature control for electric heater batteries

Electronic temperature control. The Pulser is a single or two-phase temperature regulator for controlling heater batteries.
This device is connected between the mains and an electric heater. The Pulser has an integral regulator with an input terminal for a duct temperature sensor which is located in the supply air duct.
The integral sensor can be used when regulating room temperature. The power regulation is completely stepless thanks to what is known as time-proportional control, which means that the relationship between the 'on' and 'off' times is determined by the set temperature requirement. The total 'on' and 'off' time, or pulse period, is approximately 1 minute.

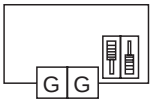
* Various temp. ranges available, for example TG-G150 = 20...50°C, TG-K370 = 40...70°C etc.

		Pulser E
Art. no.		*5143*
Voltage	V	230/400
Frequency	~	1/2
Phase	Hz	50
Current	A	16
Heating power	W	max 3600/6400
Temp. range of adjustment	°C	0...30
Temp. reduction at night	°C	0...10
Ambient temperature	°C	0...30
Ambient humidity	%RH	0...90
Enclosure	IP	20
Weight	kg	0.32
Width	mm	94
Height	mm	150
Depth	mm	43

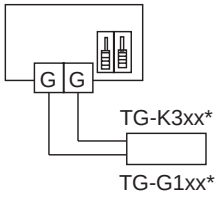
Wiring of supply voltage and heater



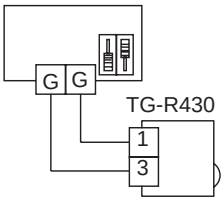
Switch setting for internal set-point and sensor



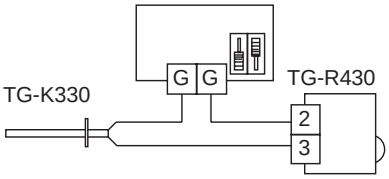
Switch setting and wiring for internal set-point and external sensor.



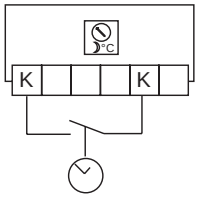
Switch setting and wiring for room control using TG-R430 as sensor and set-point



Switch setting and wiring using external separate sensor and TG-R430 as set-point



Wiring of night set-back function





Pulser M

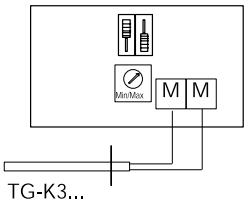
Electronic temperature control for electric heater batteries

Electronic temperature control. The Pulser M is a single or two-phase temperature regulator for controlling heater batteries. This device is connected in series between the mains and an electric heater. The Pulser M has an integral regulator with input terminals for a main sensor together with min. or max. limit sensors. The integral sensor can be used when regulating room temperature. The power regulation is completely stepless thanks to what is known as time-proportional control, which means that the relationship between the 'on' and 'off' times is determined by the set temperature requirement. The total 'on' and 'off' time, or pulse period, is approximately 1 minute.

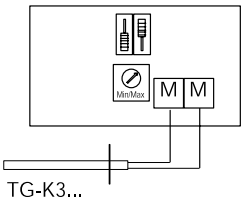
		Pulser M
Art. no.		*5144*
Voltage	V	230/400
Frequency	~	1/2
Phase	Hz	50/60
Current	A	16
Heating power	W	max 3600/6400
Temp. range of adjustment	°C	0...30
Temp. reduction at night	°C	0...10
Ambient temperature	°C	0...30
Ambient humidity	%RH	0...90
Enclosure	IP	20
Weight	kg	0.32
Width	mm	94
Height	mm	150
Depth	mm	43

Wiring diagram for supply voltage and position of change-over switch with external sensor. See Pulser.

Adjustment of change-over switch with min. limit sensor.



Adjustment of change-over switch with max. limit sensor.





TTC

Electronic temperature control for Electronic heater batteries

TTC-2000 is a 3-phase triac controller for controlling electric heating up to 25 A. It is made for wall mounting. TTC-2000 is to be connected between power supply and an electric heater and can control both Y- and Delta- connected loads. TTC-2000 can control assymetrical Delta-loads.

Function

The controller pulses the entire power output ON/OFF and utilises time-proportional control, the ratio between On-time and Off-time is varied to fit the prevailing heating requirement. E.g. ON = 30 sec and OFF= 30 sec gives 50% output power. The cycle-time (the sum of on-time and off-time) is adjustable 6...120 sec.
TTC-2000 automatically adapts control mode to suit the dynamics of the controlled object.

Supply air temperature control

For rapid temperature changes, TTC-2000 will work as a PI-controller with a fixed proportional band of 20K and a fixed reset time of 6 minutes.

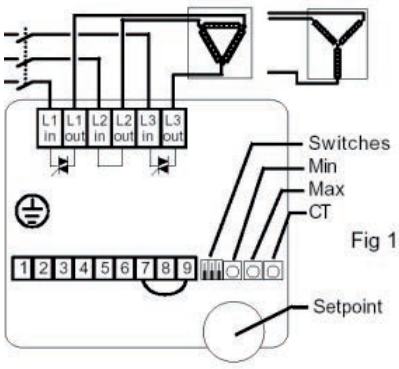
Room temperature control

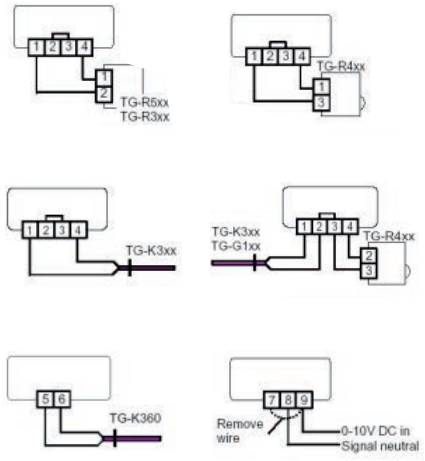
For slow temperature changes, TTC-2000 will work as a P-controller with a fixed proportional band of 1.5 K. When running room temperature control the supply air temperature can be limited in maximum and minimum.

Controlling larger electric heaters

At larger loads TTC-2000 can be combined with ancillary control board TT-S1 (p. 505).

		TTC
Art. no.		*5171*
Voltage	V	230/400 3~
Frequency	Hz	50
Current	A	25
Max heating power	kW	10/17
Temp. range of adjustment	°C	0...30
Temp. reduction at night	°C	0...10
Ambient temperature	°C	0....40
Enclosure	IP	30
Weight	kg	1.7
Width	mm	160
Height	mm	207
Depth	mm	94







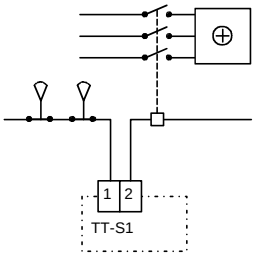
TT-S1

Control board for TTC

TT-S1 is a control board for use when you need to control larger loads with a TTC-2000. TT-S1 is used to control a contactor that activates and deactivates a basic heating load. For best function the load connected to TT-S1 should be of equal size to the load connected to the TTC-2000. TT-S1 and TTC-2000 must have separate loads.

Easy to install

The TTC-2000 is prepared to plug-in the TT-S1 module. TTC-2000 detects if a TT-S1 is installed and automatically adapts the control function accordingly. No settings are necessary. Connect in series with the control voltage for the heating load contactor.



		TT-S1
Art. no.		*5173*
Voltage supply		Supply by TTC-2000
Control signal		Supply by TTC-2000
Contact		max. 250V/2A
Max. heating power*	kW	34

*together with TTC-2000



TT-S4/D

4 step switching unit

Step controller for DIN-rail mounting in a cabinet or other enclosure. The controller is intended for controlling electric heating batteries, 4 relay output. The step controller can be set to sequence or binary mode. Can be used together with any controller with 0...10 V output signal. The switch setting on the front of the controller determines the number of steps to be used. The input signal 0...10 V is divided up into the number of steps, thus setting the switch-on point for each step.

input signal 0...10 V DC
otput signal 0...10 V DC
Mounting DIN-rail, 6 modules

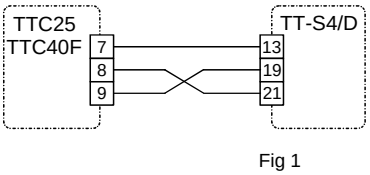


Fig 1

		TT-S4/D
Art. no.		*9154*
Voltage supply	V	24 VAC
Voltage	V	Out signal max 250V AC, 2A
Regulating ratio		Outgoing 4 sequence steps
Working range		15 binary steps
Enclosure class	IP	20
WxHxD	mm	101x85x74

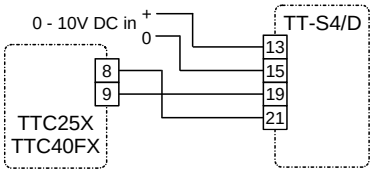


Fig 2

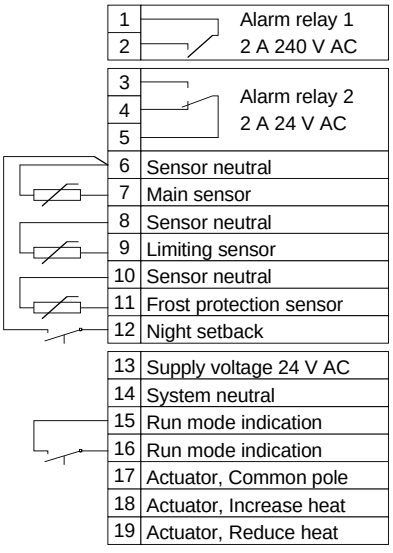


AQUA 24TF

Temperature controller

AQUA 24TF with room or supply air temperature control. The AQUA 24TF controls three-point actuators with a pulse-pause signal where the ratio between on-time and off-time is proportional to the temperature offset. The controller has a built-in. An additional external sensor can be connected. Use surface sensor TG-A 130 when frost protection or shut-down function is required. AQUA 24TF is suitable for control of valve actuator RVAZ4 24. Cascade factor (CF) must be set to 1 for single sensor control. Minimum limit (Min) not active in single sensor control.

		AQUA 24TF
Art. no.		*5136*
Voltage supply	V	24V AC +/- 10%
Frequency	Hz	50/60
Power consumption		max. 5 VA
Permitted range for ambient temperature	°C	0...50
Permitted relative humidity, non condensating	%	90
Temperature range	°C	0...30
Cascade factor (CF)		1...15
Enclosure class	IP	20
Weight	kg	0.2
Width	mm	92
Height	mm	150
Depth	mm	45





RVAZ4-24
RVAZ4-24A

Valve actuator

RVAZ4 24A is a valve actuator for 0...10 V DC control signal. 24 V AC supply voltage. Suitable for controlling ZTV/ZTR valves, kvs <= 6.0.
This product conforms with the EMC requirements of European harmonised standards EN60730-1:2000 and EN60730-2-8:2002 and carries the CE mark.

		RVAZ4-24/24A
Art. no.		*9798/9862*
Voltage supply	V	24 V AC +/- 15%
Power consumption	W	max 6 W
Frequency	Hz	50/60
Max. stroke	mm	5.5
Full stroke time		121 sek.
Stem force	Nm	400
Max. ambient humidity	%RH	95
Ambient temperature	°C	0...50
Enclosure class	IP	44



TG-R

External sensor

For sensor measurement in applications where a sensor with a higher enclosure rating is required. To be used with the TTC 2000, Pulser or RT 0-30.

		TG-R600	TG-R630
Art. no.		*5174*	*5164*
Temperature range	°C	-30...+30	0...30
Enclosure class	IP	65	65
Width	mm	85	85
Height	mm	90	90
Depth	mm	35	35



TG-K

Duct sensor

Duct sensor which is mounted inside the duct, with a sensor diameter of 9 mm, a circular flange ø 40 mm and adjustable length from 15 to 130 mm. The connecting cable is 1.5 m. To be used with the TTC, Pulser or RT 0-30.

TG-K		330	350	360
Art. no.		*5160*	*5161*	*4846*
Temp. range	°C	0...30	20...50	0...60
Enclosure class	IP	20	20	20



TG-A130

Surface sensor

Surface sensor TG-A 130 to be used together with AQUA 230T or AQUA 24TF when frost protection or shut down function is required. Can not be used together with the PULSER series.

		TG-A130
Art. no.		*5159*
Length	mm	1500
Temperature range	°C	0...30
Enclosure	IP	65



TG-D130

Immersion sensor

This temperature sensor is for measuring the water temperature in hot water batteries VBR and VBK. It can be used for frostprotection.

		TG-D130
Art. no.		*13941*
Temperature range	°C	0...30
Material		stainless steel
Pressure rating		PN10
Enclosure	IP	IP 65



TG-R 430/530

Room sensor for wall mounting

TG-R430 room sensor with adjustment of setpoint. The dial can be locked with a screw which is concealed behind the cover. The TG-R530 is a room sensor for measuring the room temperature. To be used with the TTC, Pulser or RT 0-30.

TG-R		430	530
Art. no.		*5162*	*5163*
Temperature range	°C	0...30	0...30
Enclosure class	IP	30	30
Width	mm	86	86
Height	mm	86	86
Depth	mm	30	30

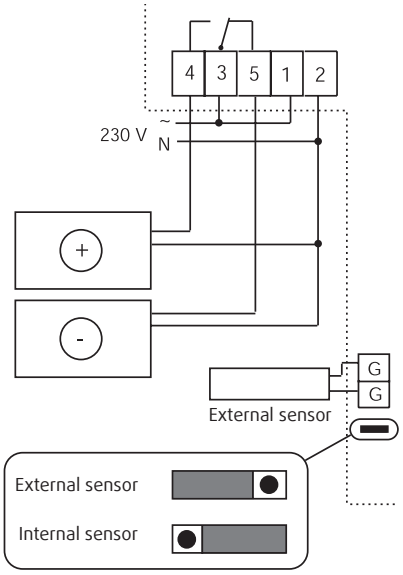


RT 0-30

Room thermostat

The RT 0-30 is an electronic room thermostat for indoor wall mounting, with a change-over relay for regulating either heating or cooling. It has an integral sensor, but an external sensor such as the TG-K330 or TG-R630 can also be connected to the thermostat. The RT 0-30 can also be used with other external temperature sensors to achieve different temperature range.

		RT 0-30
Art. no.		*5151*
Voltage	V	230
Phase	~	1
Frequency	Hz	50/60
Temperature range	°C	0...30
Enclosure class	IP	30
Power consumption	W	1
Perm. ambient temp.	°C	0...50
Perm. max. ambient humidity	%RH	90
Circuit-breaking relay	A	16, 250 VAC
Width	mm	86
Height	mm	86
Depth	mm	30





HR1

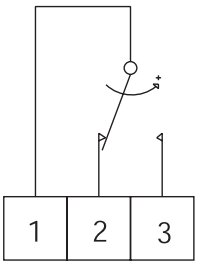
The humidistat should be mounted in a location with good air circulation and constant temperature and humidity. It should not be fitted on external walls, walls in direct sunlight, corners etc.
The humidistat's mounting holes make it suitable for fixing on to a terminal box with screws at 60 mm centres.

The humidistat should be precision-calibrated after it has been mounted, and should be recalibrated regularly. Dust and other matter should be removed with a soft brush at regular intervals.
Contacts 1 and 3 close when the air humidity exceeds the preset value.

Room humidistat

A humidistat for controlling exhaust air fans in response to the relative humidity. The humidistat uses human hair as the humidity sensor medium. The set-point can be anywhere between 10 and 95% RH. Base plate in black plastic and cover in white plastic.
The HR1 is supplied with a sliding cover over the set-point dial, which can be locked.

		HR1
Art. no.		*5150*
Setpoint	%RH	10...95
Differential	%RH	4% at 45
Switching capacity		250V/5A
Max. operating temp.	°C	40
Enclosure class	IP	21
Weight	kg	0.16
Width	mm	83
Height	mm	136
Depth	mm	37



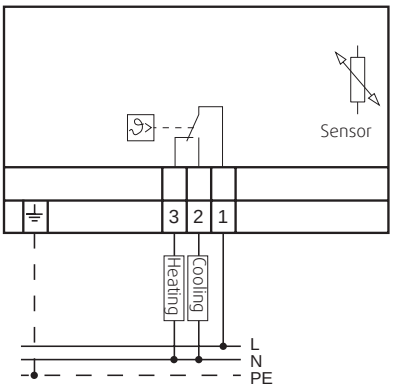


TM 10

Mechanical thermostat

Mechanical thermostat with change contact to switch fans or for the connection to controllers with thermostat or release connection. The setpoint is adjustable from 0 to 40°C.

		TM 10
Art. no.		*2703*
Temp. range	°C	0...40
Ambient temp.	°C	-20...+50
Differential		1.5
Contact		1 change-over
Switching capacity		250V/max 4A
Enclosure class	IP	54
Weight	kg	0.35
Width	mm	86 (+27)
Height	mm	128
Depth	mm	58 (+13)



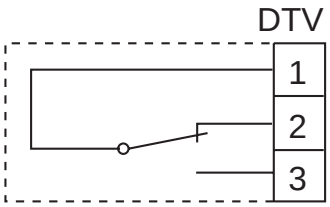


DTV

Pressure switch

Differential pressure switch for air and non-corrosive gases. Relay contact data 250 V AC 5 A, change-over. Calibrated for vertical mounting.

DTV		200	500
Art. no.		*6261*	*5044*
Pressure range	Pa	20...300	50...500
Media		clean air	
Air temperature	°C	-20...+85	-20...+85
Switch. diff. press.	Pa	15Pa +/-5	25Pa +/-8
Max. current load	A	250V, 5A (0,8A)	
Enclosure class	IP	54	54
Width	mm	88	88
Height	mm	81	81
Depth	mm	60	60





Frame for wallmounting

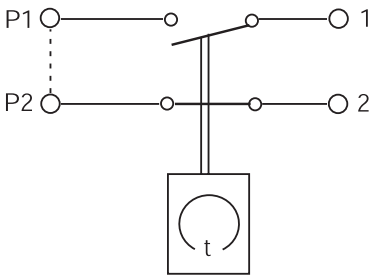
T 120

Timer

Timer with 120 minutes operating time. Supplied with flange for fitting into equipment housing. Casing for surface mounting is available as an extra. A switch for closing and breaking circuits. A link can be used to produce a change-over function. The timer makes a quiet ticking sound when connected.

This timer is suitable for controlling the REU and RTRDU five step transformers.

		T 120
Art. no.		*5165*
Voltage	V	230
Frequency	Hz	50
Max. current load	A	10 (2)
Connection time	min	0...120
Width	mm	80
Height	mm	80
Depth	mm	25





Trafo 15/D

Transformer 230/24

The transformer is suitable to be mounted on DIN rails and has a built in thermal protection.

		Trafo 15/D
Art. no.		*13223*
Voltage supply	V	230 AC
Voltage output	V	24 AC
Enclosure class	IP	20
Power output	VA	15
Width	mm	53
Height	mm	85
Depth	mm	74

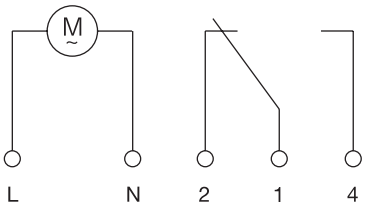


MicroREX D21Plus

Time switch

The MicroREX D21 is a digital 7 day time switch with a circular segmented display for general rail mounting use or on wall. For rail mounting, or wall mounting with an extra casing, available as accessory. Up to 28 programs in 8 pictures are possible. A program picture incorporates both ON and OFF time. If no button is pressed for 60 seconds during programming the time switch goes back to the start position. The copy function enables program to be copied to other days. Minimum switching time is 1 minute. The switching times are protected but can be overlaid by other programs. Programs are displayed with a minimum segment size of 30 minutes. The time and the week days are presented digitally. The summer-/winter changeover can be programmed for hand or automatic operation.

		MicroREX
Art. no.		*17822*
Voltage	V	230
Frequency	Hz	50/60
Max. current load	A	16
Accuracy		±1s/day
Width	mm	36
Height	mm	83
Depth	mm	66





SC1/D

Signal converter, 1 step

SC1/D is a signal converter which converts a 0...10 V DC input signal to a change-over relay function with adjustable switching points. SC1/D can be set for direct or reverse action, i.e. relay activation on rising input voltage or relay activation on falling input voltage.

		SC1/D
Art. no.		*13217*
Voltage supply	V	24 VAC
Frequency	Hz	50/60
Power consumption		2 VA
Control signal		0...10 V
Circuit-breaking relay	A	230V AC, max.10
Max. ambient humidity	%RH	90
Ambient temp.	°C	0...50
Enclosure class	IP	20
Width	mm	53
Height	mm	85
Depth	mm	74

1	Sys.neutral	Supply-voltage
2	24V AC in	
3	Not connected	
4		Relay 230V AC, 10A
5		
6		
7	Signal neutral	
8	Input signal 0-10 V DC	
9	Not connected	
10	Not connected	
11	Not connected	
12	Not connected	



SC2/D

Signal converter, 2 step

Signal converter suitable for heating/cooling or alarm applications. Converts 0...10 V input signal to relay output. The module is suitable for mounting on a DIN-rail in a cabinet or other enclosure and has adjustable switching points. SC2/D can be set for either binary or sequential control. Voltage supply 24 V AC +/- 15%, 24 V DC (18...35 V DC).

		SC2/D
Art. no.		*13616*
Frequency	V	24 VAC
Power consumption	Hz	50/60
Perm. ambient temp.		2 VA
Max. ambient humidity	%RH	90
Step distance		0...2V
Enclosure class	IP	20
Width	mm	53
Height	mm	85
Depth	mm	74

1		R1 10A 230V~
2		
3	Not connected	
4	Not connected	
5		R2 10A 230V~
6		
7	Input signal 0-10V DC	
8	Signal neutral	
9	Not connected	
10	Not connected	
11	Sys.neutral	Supply voltage
12	24V~ in	



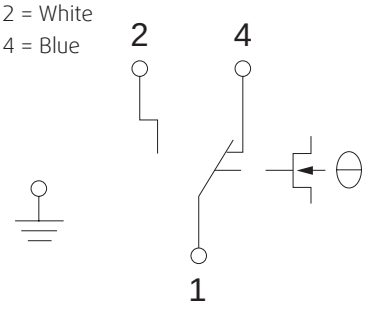
K-WFR

Air flow relais, mechanical

For the supervision of air flows in ducts, in supply or exhaust air units, coming from fans or electric heating coils.

		K-WFR
Art. no.		*2647*
Contact		1 change-over
Switching capacity		AC 24...230V, 15(8)A
Working range		1(2)...8(9.2) m/s
Differential		≥1 m/s
Permitted range for ambient temperature	°C	-40...+85
Max. temp. of transported air	°C	85
Enclosure	IP	65
Weight	kg	0.4

1 = Red
2 = White
4 = Blue





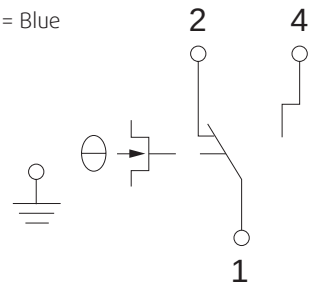
K-FST1

Frost protection thermostat

Especially suited to ensure the protection of hot water coil heating systems against freezing. The frost protection thermostat models are equipped with two switching outputs that provide the option to act on the system already in advance of the attaining of the corresponding danger point. All devices are fail-safe and dispose of a lockable set value setting facility. In each case, the capillary tubes are active over their entire length.
Capillar length: 6.0 m.
Capillary tube length:. The device responds if the adjusted scale value is attained over a length of approx. 30 cm. Specially suited for the measuring of temperatures in non-aggressive gases.

		K-FST1
Art. no.		*2636*
Contact		1 change-over
Curcuit-breaking	A	15(8)A, 24-250V~
Temperature range	°C	-10...+12
Max. temp. of transp. air	°C	200
Ambient temperature	°C	-10...+55
Enclosure class	IP	40
Width	mm	112
Height	mm	105
Depth	mm	55

1 = Red
2 = White
4 = Blue



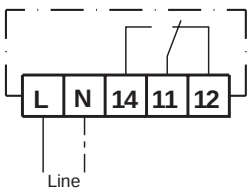


K-LSW230

Flow meter, 0.2...8 m/s, electronic

The flow meter for duct installation controls the air-flow velocities over a range of 0.2...8 m/s in accordance with the calorimetric principle. The relay functions are displayed using LED. It possesses a start-up delay of approx. 120 s.

		K-LSW230
Art. no.		*2638*
Voltage supply	V	230V 50/60Hz
Working range		0.2...8m/s
Contact		1 change-over
Switching capacity		250VAC / 5A
Power consumption		>3VA
Permitted range for ambient temperature	°C	-20...+60
Permitted max. ambient humidity	%RH	85
Enclosure	IP	65 (Sensor IP20)
Width	mm	82
Height	mm	80
Depth	mm	57
Probe length	mm	138



velocity > set value contact 11-14 closed

velocity < set value contact 11-12 closed (start up delay)



REV

Isolator ON / OFF

Isolator mounted on a bracket, with cable. Lockable in OFF position. I max 20 A. Enclosure class IP 65.

3POL/03 (art. no. 33978)
3-pole (closing/auxillary contact 1) cable 3 x 1.5 mm² for 1 phase motor TK not lead out.

5POL/05 (art. no. 33979)
5-pole (closing/auxillary contact 1) cable 5 x 1.5 mm² for 1 phase motors TK lead out and 3 phase motors TK not lead out.

5POL/07 (art. no. 33980)
5-pole (closing/auxillary contact 1) cable 7 x 1.5 mm² for 3 phase motors TK lead out.

9POL/12 (art. no. 33981)
9-pole (closing/auxillary contact 1) cable 12 x 1.5 mm² for 3 phase motors TK lead out and two speed (D/Y).

When operating with Explosion proof fans the REV has to be placed outside the EX zone!



REV incl. EMC KIT

Isolator incl. EMC-KIT

The EMC-KIT is an accessory for the isolator when operated with frequency inverter. For frequency inverters without all pole sine filter a shielded connection is needed. We recommend to order the EMC-KIT mounted.

Isolator with EMC-KIT is pre-wired,
I max 20 A.

5POL/05
(art. no. 34549)
5-pole (closing/auxillary contact 1)
The complete set consist of:

- Isolator with mounting bracket
- EMC-Panel for EMC conformity
- EMC-clamp for easy connection of the
- shielded cable
- Terminal box for PTC connection
- Terminal strip 2.5 mm² for PTC connection
- Shielded cable 4G 1.5 for supply connection
- Cable 2x0.75 for PTC connection

When operating with Explosion proof fans the REV has to be placed outside the EX zone!



REV DVV

Isolator DVV

ON-OFF sisolator for fans DVV/F400, F600 and DVV/120
Available on request for sizes 400 to 630 (serial at sizes 800 and 1000). It is placed instead of a terminal box outside on the cooling duct (DVV/F), while at DVV/120 on the casing.

8 pole isolator with 1 x NC and 1 x NO.

Locking in possible to lock in OFF position. possible (lock not supplied).

Connection of max. 7 x 2.5 mm² silicon cable on the switch is possible.

Equipped with cable gland max. M25 x 1.5, size depending on cable from electric motor to isolator.



REV ATEX

Explosion proof ON-OFF isolator

(art. no. 36414)

- 25A, 3pole 1 x NC and 1 x NO
- Polyester resin (RAL 7024)
- Lockable in the "Off" position (3x)
- Enclosure class IP66

Safety switches ensure the obligatory isolation of electrical power during cleaning, maintenance and repair of the equipment. With tapped hole 2 x M25, 1 x M20. Suitable cable glands are available as accessories.



EX e

Connection box

The EX-connection box is of dark grey, the max. angle of rotation is 95° with 3 cable glands and 1 stopping plug in Ex-execution. There are 8 clamps in the connection box.

		EX e
Art. no.		*2704*
Explosion proof		Ex II 2G EX e II T6
Certificate		PTB 99 ATEX 3103
Voltage	V	690
Max. current	A	32
Enclosure class	IP	66
Ambient temperature	°C	-50...+55
WxHxD	mm	115x115x64



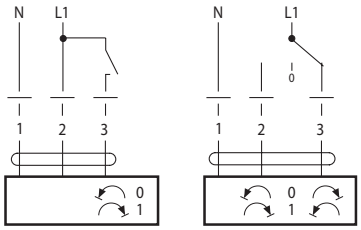
SM

Damper actuator

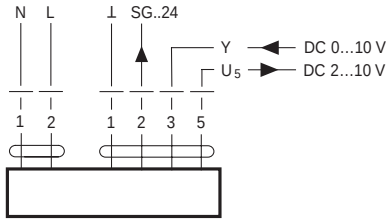
The damper actuator is suitable for the adjustment of dampers up to 4 m² and for round and square shafts with a dia. 10...20 mm. 1-wire-control (open/close) or 3-point-control. Control signal 0...10 V for A-SR versions. Direction of rotation reversible. Manual override with push-button. The max. torque is 20 Nm for dampers up to 4 m² and a max. angle of rotation of 95° with adjustable mechanical limitation.

		SM 230A	SM 230A-SR
Art. no.		*30190*	*4920*
Voltage	V	100...240	100...240
Frequency	Hz	50/60	50/60
Power consumption	W	2.5	2.5
Enclosure class	IP	54	54
Full stroke time	sek.	150	150
For ambient temperature	°C	-30...+50	-30...+50
Weight	kg	1.0	1.1

SM 230A



SM 230A-SR





SF

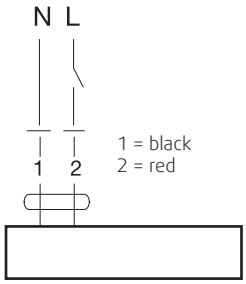
Damper actuator

- For air dampers up to approx. 4 m²
- Torque 20 Nm
- Nominal voltage AC 230 V (SF 230A); AC/DC 24 V (SF24A / SF24A-SR / SF24A-S2);
- Control: Open-close; modulating DC 0...10V (SF24A-SR)

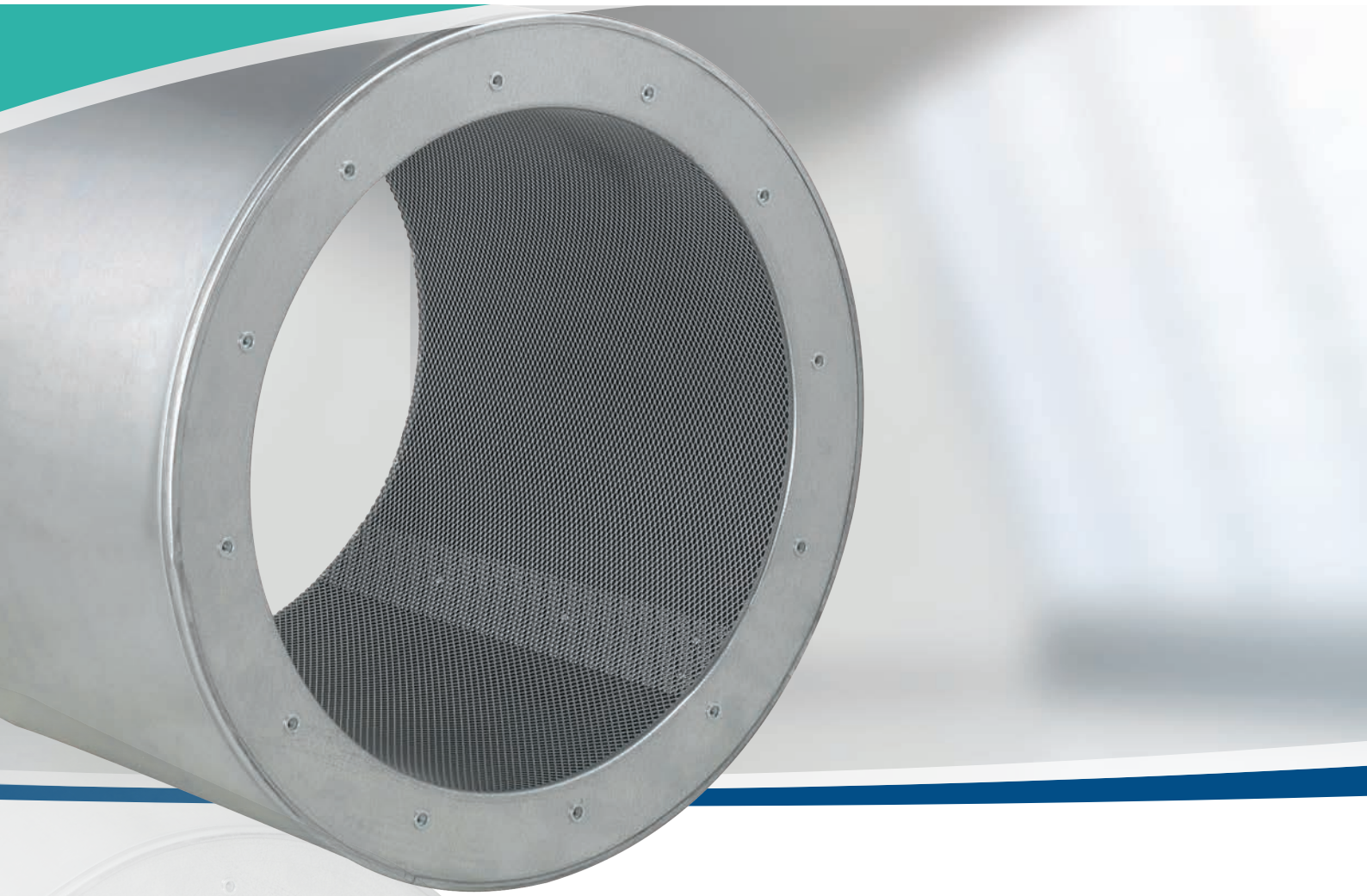
Spring return actuator with emergency function for adjusting air dampers in ventilation and air conditioning systems in buildings.

		SF 230A	SF 24A
Art. no.		*33690*	*33691*
Voltage	V	230	24
Frequency	Hz	50/60	50/60
Power consumption	W	6.5	5
Torque	Nm	20	20
Full stroke time	sek.	75/20	75/20
Enclosure class	IP	54	54
Ambient temp.	°C	-30...+50	-30...+50
Weight	kg	2.2	2.1

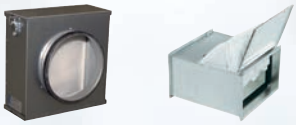
SF 230A, SF 24A



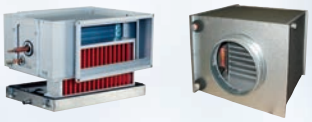
Accessories



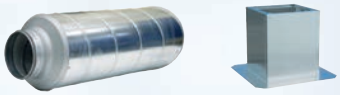
Filter boxes



Coolers



Silencers



Heaters



Shutters, dampers



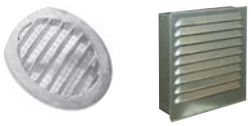
Flanges, adapters



Flexible connections



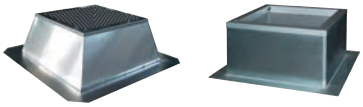
Protection guards



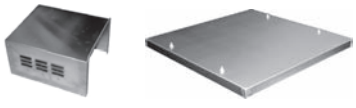
Mounting clamps / feet



Roof sockets



Weather protection



Anti-vibration mounts



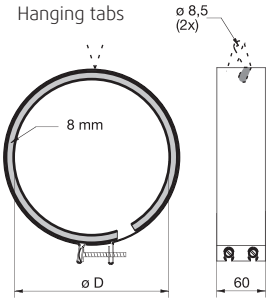


FK

Fast clamps

Mounting clamps which facilitate the installation and removal of fans for service and cleaning. Made from galvanized steel and fitted with an 8 mm neoprene lining which suppresses vibrations and ensures a tight fit. The mounting clamps are clamped together by two screws which allow for small differences in dimension.

FK	Art. no.	øD mm
100	1607	100
125	1608	125
150	1609	150
160	1610	160
200	1611	200
250	1612	250
315	1613	315
355	1614	355
400*	1615	400
450*	1616	450
500*	1617	500
* Note! Without hanging tabs		

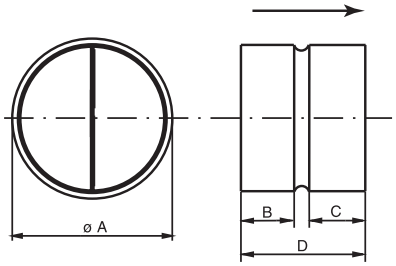




RSK

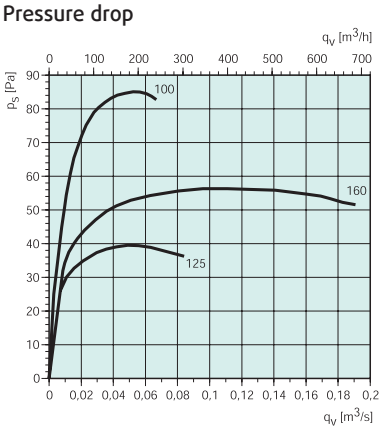
Back draft damper

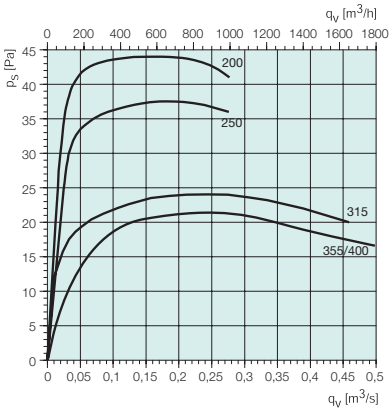
Back draft damper for circular ducts, manufactured from galvanized steel. The two blades are spring-loaded, which means that the damper can also be mounted vertically.



RSK	Art. no.	øA	D	B	C
100	5597	100	80	24	33
125	5598	125	100	33	44
150	5599	150	100	34	43
160	5601	160	120	42	55
200	5602	200	140	55	62
250	5603	250	140	54	62
315	5604	315	140	50	65
355	9972	355	197	75	75
400	9973	400	197	75	75

Pressure drop







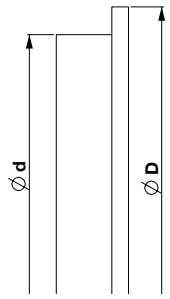
IGC LI

Intake grid

Intake grid for inside or outside installation. Connection diameters 100-315 mm, manufactured from die-cast aluminium and supplied with a mesh designed to keep out large insects.

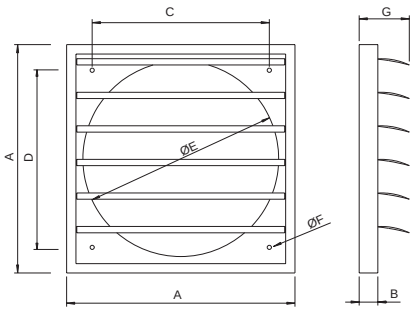
øD = outside diameter
ød = connection diameter

IGC	Art. no.	ød	øD
100	37357	100	125
125	37358	125	150
160	37359	160	185
200	37360	200	225
250	37361	250	275
315	37362	315	350

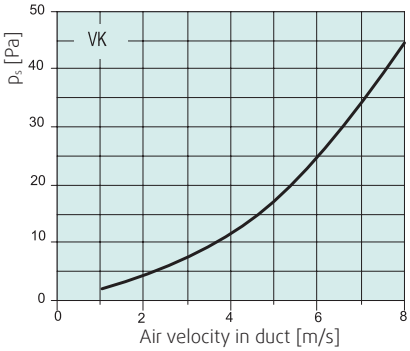




VK



Pressure drop



Gravity louvre shutter

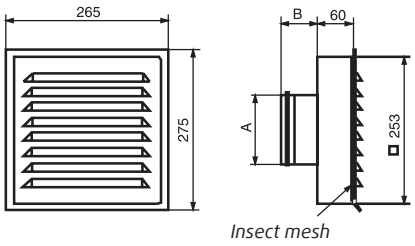
Louvre shutters for vertical mounting on a wall. The profiled vanes produce a strong upward force which reduces the air resistance. This means that the vanes opens fully at low air velocities as well.
All the parts are manufactured in weather-resistant and shockproof nylon material (PVC containing special synthetic). The robust construction ensures that the vanes will not become deformed or loose. Above size 45, the vanes are fitted with a cast counterweight. Air velocity should not exceed 12 m/s. The louvre shutters are easy to install. Wall plugs and screws are included above size 15.

VK	Art. no.	A	B	C	D	E	F	G	H
10 **	5636	142	15	103	103	96	5	46	3
12 **	5638	164	12	115	115	117	5	38	4
15	5605	178	20	130	130	152	4	50	5
20	5339	245	20	190	190	210	5	50	6
25	5640	299	25	235	235	260	5	70	5
30	5641	347	26	274	274	310	5	70	6
35	5642	397	26	297	323	360	5	70	7
40	5643	460	26	364	373	423	5	65	8
45	5645	501	31	402	402	460	5	70	6
50	5646	549	31	452	452	510	5	95	7
56*	9951	610	30	530	530	530	5	80	14(2x7)
63*	5651	701	31	626	626	660	5	85	16(2x8)
71*	5653	749	31	663	663	710	5	90	18(2x9)

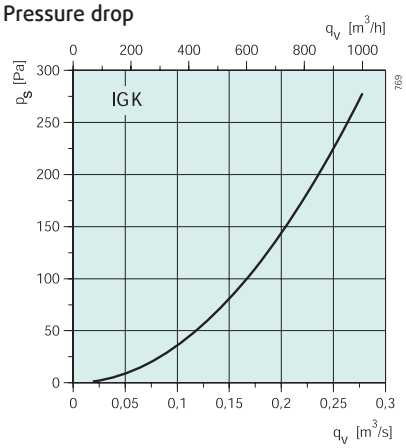
*side by side shutters **Color: white H = amount of vanes



IGK



Pressure drop



Intake grid

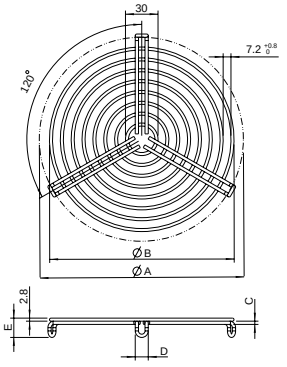
Intake grid manufactured from galvanized steel with wall flange and insect mesh. Connection sleeve with rubber seal.

IGK	Art. no.	øA	B
100	1630	100	37
125	1631	125	37
160	1632	160	37
200	1633	200	41



SG

SG	Art. no.	øA	øB	C	D	E
100	5606	100	90	3.4	11.8	24.3
125	5607	125	110	3.4	11.8	24.3
150	5555	150	150	3.4	11.8	24.3
160	5608	160	150	3.4	11.8	24.3
200	5609	200	190	3.4	11.8	24.3
250	5610	250	250	3.4	11.8	24.3
315	5611	315	310	3.8	12.6	24.7
355	5612	355	350	3.8	12.6	24.7
400	5613	400	390	3.8	12.6	24.7
450	5614	450	450	3.8	12.6	24.7
500	5615	500	490	3.8	12.6	24.7

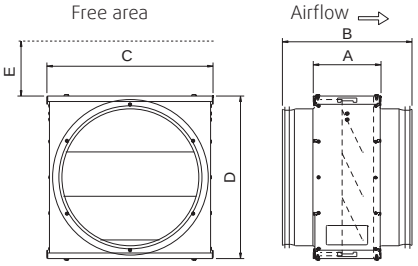


Protection guard

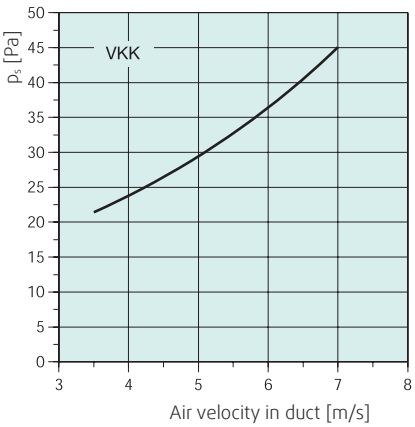
Protection guard for duct fans, mounted with three screws.



VKK



Pressure drop



Back draft damper

Back draft damper for installation in horizontal ducts. The profiled vanes produce a strong upward force which reduces the air resistance. This means that the vanes open fully at low air velocities as well. The box is manufactured from galvanized steel. The damper inside the box is manufactured from weather-resistant and shockproof nylon material. The robust construction ensures that the vanes will not become deformed or loose. Air velocity should not exceed 12 m/s.

VKK	Art. no.	ø	A	B	C	D	E
100	1623	100	123	199	205	200	201
125	1624	125	123	199	205	200	201
160	1625	160	123	199	205	200	201
200	1626	200	123	199	302	300	297
250	1627	250	123	239	302	300	297
315	1628	315	123	239	350	345	345
400	1629	400	123	259	454	450	450



FGR

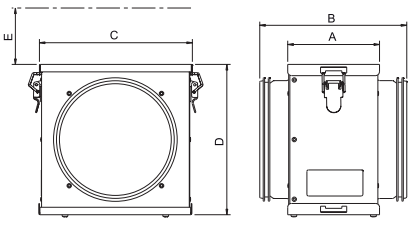
Filter cassette for circular ducts

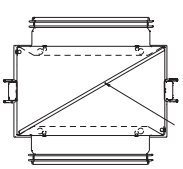
The FGR filter cassette is fitted with a standard type G3 panel filter. The cassette housing is manufactured from galvanized steel with rubber-sealed circular connections, toggle locks and disposable filters. Replacement PFR filters are sold in packs of five.
The filter cassette is suitable for use as a supply-air filter in factories, as pre-filter for air handling units or exhaust air filter for tumble driers. The recommended final pressure drop is 170 Pa for the G3 filter.

Filter cassette	Art. no.	Panel filter	Filter
		(incl. in FGR)	
100	1802	PFR 100-160	G3
125	1804	PFR 100-160	G3
150	1807	PFR 100-160	G3
160	1809	PFR 100-160	G3
200	1812	PFR 200-250	G3
250	1815	PFR 200-250	G3
315	1818	PFR 315	G3
355	1821	PFR 355-400	G3
400	1823	PFR 355-400	G3

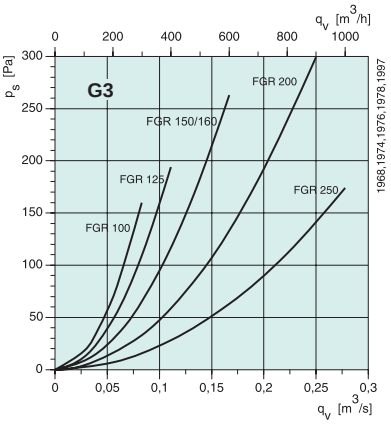
FGR	ø	A	B	C	D	E*
100	100	123	199	205	201	190
125	125	123	199	205	201	190
150	150	123	199	205	201	190
160	160	123	199	205	201	190
200	200	123	199	302	297	280
250	250	123	239	302	297	280
315	315	123	239	350	345	330
355	355	123	239	454	450	435
400	400	123	259	454	450	435

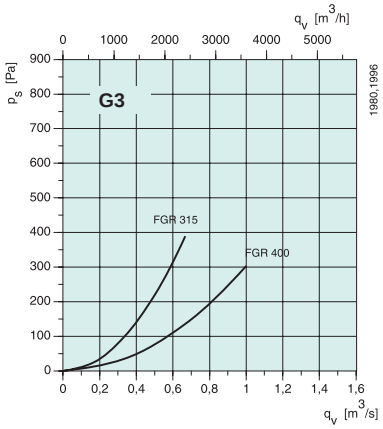
Free area for filter change

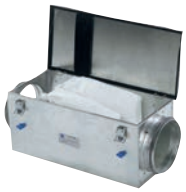




Filter mounting







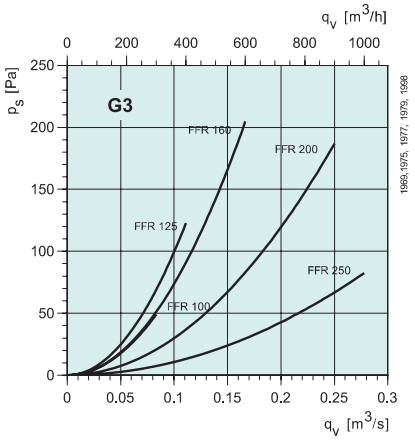
FFR

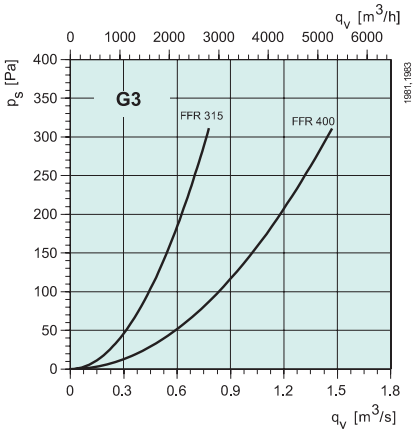
Filter cassette for circular ducts

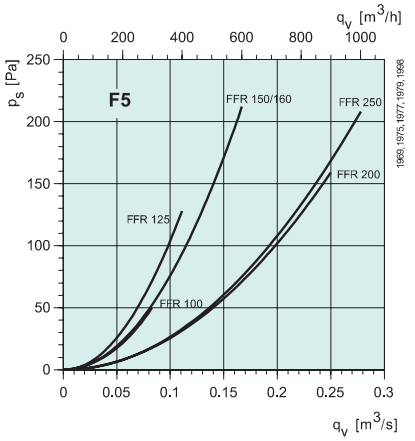
The FFR filter cassette is designed for bag filters of the G3, M5 or F7 standard filter types. The cassette is manufactured from galvanized steel with rubber-sealed circular connections and locks with toggle fasteners.

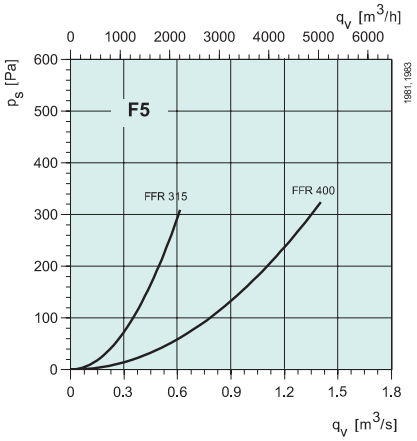
The cassette is fitted with connections for connecting to a pressure sensor. The filters for FFR are BFR bag filters. Available in various filter classes and are ordered separately and supplied individually. The recommended final pressure drop is 170 Pa for the G3 filter, 200 Pa for the M5 filter and 250 Pa for the F7 filter.

FFR	Art. no.	Bag filter	Filter media
100	1766	BFR 100-160	G3, F5, F7
125	1768	BFR 100-160	G3, F5, F7
150	1769	BFR 100-160	G3, F5, F7
160	1770	BFR 100-160	G3, F5, F7
200	1773	BFR 200	G3, F5, F7
250	1776	BFR 250	G3, F5, F7
315	1779	BFR 315	G3, F5, F7
355	1782	BFR 355-400	G3, F5, F7
400	1783	BFR 355-400	G3, F5, F7

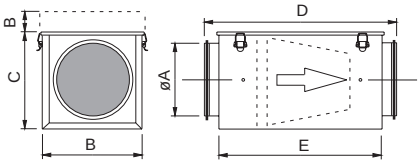




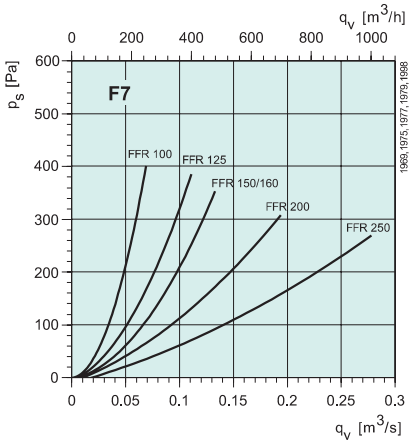


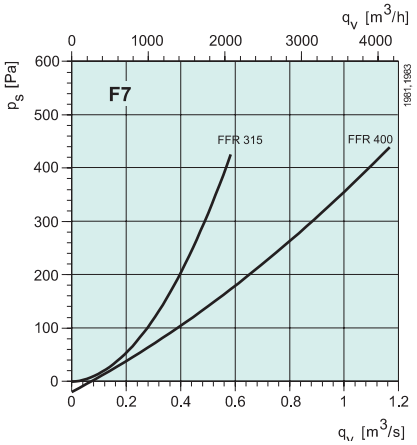


B = Free area for filter change



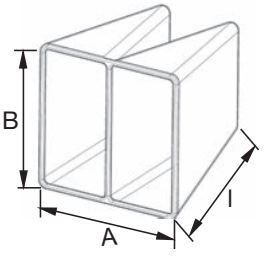
øA	B	C	D	E
100	200	203	522	450
125	200	203	522	450
150	200	203	522	450
160	200	203	522	450
200	245	248	530	450
250	295	298	584	500
315	345	348	634	550
355	445	448	780	650
400	445	448	782	650





Dimensions for filter classes G3/M5/F7 in mm:

BFR	A/B	I	No. of filter bags	Art. no. G3	Art. no. M5	Art. no. F7
100-160	187/187/188	250/250/235	2/2/3	5246	5239	5222
200	232/232/233	250/250/230	2/2/3	5247	5240	5223
250	282/282/283	300/300/285	2/2/4	5248	5241	5224
315	332/332/333	350/350/330	3/3/5	5249	5242	5226
355, 400	432/432/433	450/450/420	3/3/6	5250	5243	5227

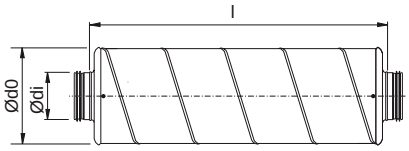




LDC

Silencer

Easily-fitted silencer for circular ducts, fitted with a connection that complies with the spiral duct standard. The LDC effectively reduces noise in the duct. Two silencers can be used together in installations where noise reduction is a particularly strong requirement. This is very effective. For the most effective noise reduction, the silencer should be fitted immediately behind a fan or bend. The silencer should be used together with an insulated fan where there is a requirement for noise reduction both in the duct and in the surroundings as a whole. Insulation thickness 50 mm.

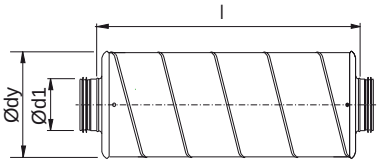


Noise suppression dB (mid-frequency Hz)								
LDC	63	125	250	500	1k	2k	4k	8k
100-300	2	2	6	14	21	25	20	11
100-600	4	3	11	24	36	49	34	17
100-900	5	4	15	34	50	50	48	23
100-1200	6	5	19	45	50	50	50	29
125-300	2	2	6	13	16	20	15	10
125-600	3	3	9	23	30	40	22	14
125-900	4	4	12	33	45	50	30	17
125-1200	5	5	15	43	50	50	38	21
150-300	1	2	4	10	12	15	8	8
150-600	-	3	7	20	27	31	16	11
160-300	1	2	4	10	12	15	8	8
160-600	2	3	7	19	27	29	14	11
160-900	2	4	10	28	42	43	20	15
200-300	1	2	5	8	10	11	5	5
200-600	2	3	7	16	21	23	9	8
200-900	2	4	8	24	32	34	13	10
250-600	3	2	7	13	17	16	8	6
250-900	3	4	8	20	26	23	10	8
315-600	0	2	6	11	14	9	4	5
315-900	1	3	7	16	22	12	6	7
355-900	-	3	6	13	18	10	6	7
400-900	1	3	5	10	13	7	5	6

LDC	Art. no.	L nom	ødi	ød0	l	kg
100-300	8180	300	100	200	360	2.28
100-600	5188	600	100	200	660	4.09
100-900	5189	900	100	200	960	5.18
100-1200	5996	1200	100	200	1260	6.46
125-300	53722	300	125	224	365	2.66
125-600	5190	600	125	224	665	4.39
125-900	5191	900	125	224	965	6.20
125-1200	5997	1200	125	224	1265	7.47
150-300	53723	300	150	250	300	3.77
150-600	5199	600	150	250	600	5.37
160-300	53108	300	160	260	375	2.98
160-600	5192	600	160	260	670	5.37
160-900	5193	900	160	260	970	7.48
200-300	53369	300	200	300	385	4.11
200-600	5194	600	200	300	685	6.90
200-900	5195	900	200	300	985	9.74
250-600	51200	600	250	355	600	8.55
250-900	5196	900	250	355	900	11.7
315-600	5949	600	315	415	600	11.8
315-900	5197	900	315	415	900	16.3
355-900	5399	900	355	560	900	25.2
400-900	5198	900	400	600	900	24.3



LDC(B)



LDC(B)	Art. No.	ød1	ødy	l	kg
315-1200	9068	315	510	1200	32.6
400-1200	9081	400	625	1200	41.7
500-1200	9087	500	735	1200	48.8
630-1200	9088	630	880	1200	59.3

Silencer

Circular straight silencer with baffle. Provided with a 100 mm thick baffle. This provides greater attenuation across the entire range. Used where increased attenuation is required and the standard is not suitable. More suitable in the larger sizes. Insulation thickness 100 mm.

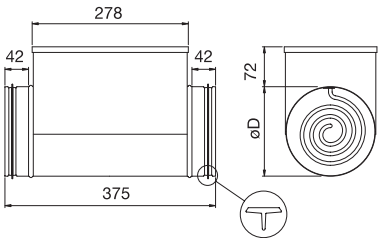
Noise suppression dB (mid-frequency Hz)								
LDC(B)	63	125	250	500	1k	2k	4k	8k
315-1200	7	9	23	30	38	47	37	25
400-1200	6	10	18	23	31	36	25	19
500-1200	4	8	13	18	24	28	17	16
630-1200	3	8	10	13	18	18	12	12



CB

Electrical duct heater

Duct heater with spigot connection for standard spiral ducts. Manufactured from Aluzinc-coated aluzinc-steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CB heater has rubber seals on the connecting spigots. Suitable for control by room thermostat or Pulser. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50 °C. The CB can be installed in a horizontal or vertical duct. In a horizontal duct, the connection box should be installed facing upwards, or rotated 90° to one side. Installation with the connection box facing downwards is not allowed.



øD = connection diameter

A = Heating elements
B = Overheat protection with automatic reset
C = Overheat protection with manual reset
E = Interlocking
F = All phase breaker
H = Thyristor type Pulser or TTC

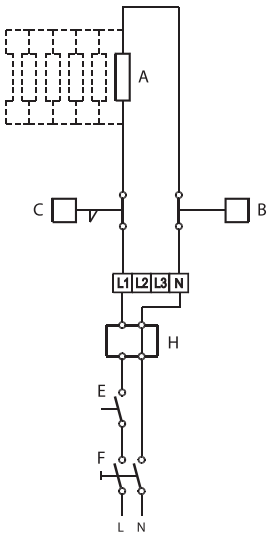
CB		100-0.4	100-0.6	125-0.6	125-1.2	125-1.8	150-1.2	150-2.1	150-2.7
Art. no.		*5288*	*5376*	*5289*	*5290*	*5377*	*5378*	*5379*	*5380*
Connection ø	mm	100	100	125	125	125	150	150	150
Power	kW	0.4	0.6	0.6	1.2	1.8	1.2	2.1	2.7
Voltage	V	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~	230 1~
Current	A	1.7	2.6	2.6	5.2	7.8	5.2	9.1	11.7
Min. airflow	m³/h	45	45	70	70	65	100	100	100
Weight	kg	2.1	2.1	2.5	2.7	3.0	2.9	3.0	3.2
Controlled by		Pulser	Pulser	Pulser	Pulser	Pulser	Pulser	Pulser	Pulser
Wiring diagram		CB-1	CB-1	CB-1	CB-1	CB-1	CB-1	CB-1	CB-1

CB		150-5.0	160-1.2	160-2.1	160-2.7	160-5.0	200-2.1	200-3.0	200-5.0
Art. no.		*5381*	*5291*	*5292*	*5382*	*5383*	*5384*	*5370*	*5371*
Connection ø	mm	150	160	160	160	160	200	200	200
Power	kW	5.0	1.2	2.1	2.7	5.0	2.1	3.0	5.0
Voltage	V	400 2~	230 1~	230 1~	230 1~	400 2~	230 1~	230 1~	400 2~
Current	A	12.5	5.2	9.1	11.7	12.5	9.1	13	12.5
Min. airflow	m³/h	100	115	115	115	115	180	180	180
Weight	kg	3.9	3.0	3.3	3.4	4.0	3.8	4.0	4.5
Controlled by		Pulser	Pulser	Pulser	Pulser	Pulser	Pulser	Pulser	Pulser
Wiring diagram		CB-2	CB-1	CB-1	CB-1	CB-2	CB-1	CB-1	CB-2

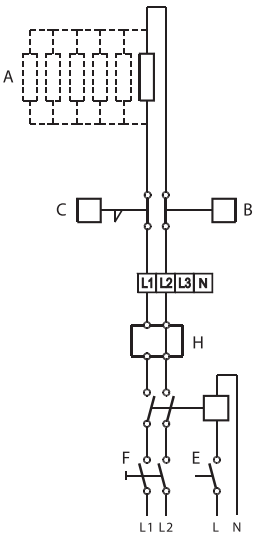
CB		250-3.0	250-6.0	250-9.0	315-3.0	315-6.0	315-9.0	315-12.0	355-6.0
Art. no.		*5385*	*5372*	*5373*	*5386*	*5374*	*5375*	*5390*	*5388*
Connection ø	mm	250	250	250	315	315	315	315	355
Power	kW	3	6	9	3	6	9	12	6
Voltage	V	230 1~	400 2~	400 3~	230 1~	400 2~	400 3~	400 3~	400 2~
Current	A	13	16	13	13	15	13	17.3	15
Min. airflow	m³/h	280	280	280	430	430	430	430	550
Weight	kg	4.6	5.2	6.2	5.4	5.9	6.9	7.9	6.5
Controlled by		Pulser	Pulser	TTC	Pulser	Pulser	TTC	TTC	Pulser
Wiring diagram		CB-1	CB-2	CB-3	CB-1	CB-2	CB-3	CB-4	CB-2

CB		355-9.0	355-12.0	400-6.0	400-9.0	400-12.0			
Art. no.		*5389*	*5390*	*5391*	*5392*	*5393*			
Connection ø	mm	355	355	400	400	400			
Power	kW	9	12	6	9	12			
Voltage	V	400 3~	400 3~	400 2~	400 3~	400 3~			
Current	A	13	17.3	15	13	17.3			
Min. airflow	m³/h	550	550	700	700	700			
Weight	kg	7.5	7.9	7.2	8.0	9.5			
Controlled by		TTC	TTC	Pulser	TTC	TTC			
Wiring diagram		CB-3	CB-4	CB-2	CB-3	CB-4			

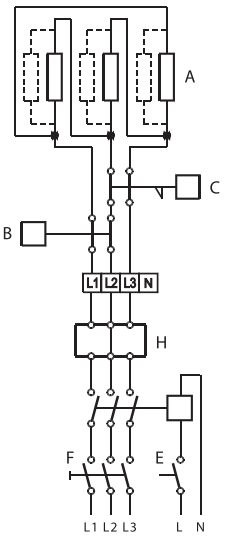
CB-1 230V~



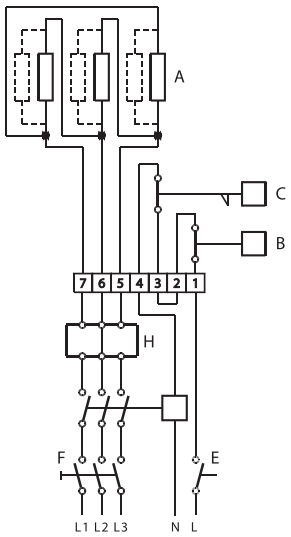
CB-2 400V 2~



CB-3 230V 3~ 400V 3~



CB-4 12kW, 400V 3~





CBM

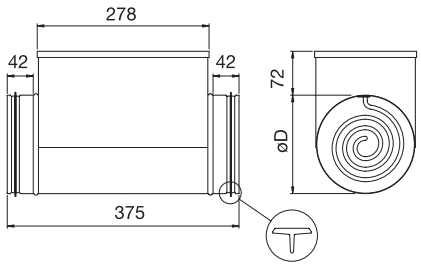
CBM		100-0.6	125-1.2	150-2.1	160-2.1	200-3.0	200-5.0
Art. no.		*5479*	*5480*	*5481*	*5482*	*7593*	*5483*
Connection ø	mm	100	125	150	160	200	200
Power	kW	0.6	1.2	2.1	2.1	3.0	5.0
Voltage	V	230 1~	230 1~	230 1~	230 1~	230 1~	400 2~
Current	A	2.6	5.2	9.1	9.1	13..1	12.5
Min. airflow	m³/h	45	70	100	115	180	115
Weight	kg	2.2	2.9	3.3	3.4	4.3	4.8
Wiring diagram		CBM-1	CBM-1	CBM-1	CBM-1	CBM-1	CBM-2

CBM		250-3.0	250-6.0	315-6.0	315-9.0	355-9.0	400-9.0
Art. no.		*7595*	*9089*	*9091*	*5485*	*5486*	*5487*
Connection ø	mm	250	250	315	315	355	400
Power	kW	3.0	6.0	6	9	9	9
Voltage	V	230 1~	400 2~	400 2~	400 3~	400 3~	400 3~
Current	A	13.1	15	15	13	13	13
Min. airflow	m³/h	180	280	421	430	550	700
Weight	kg	4.8	5.4	6.3	7.5	8.0	8.5
Wiring diagram		CBM-1	CBM-2	CBM-2	CBM-3	CBM-3	CBM-3

Duct heater with integral control equipment

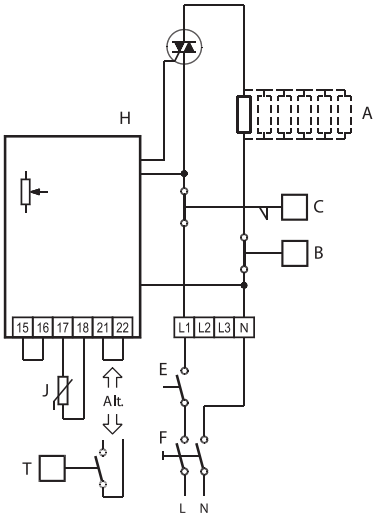
Duct heater with spigot connection for standard spiral circular ducts. Manufactured from Aluzinc-coated aluzinc-steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The CBM have rubber seals on the connecting spigots. The temperature is set on the cover of the duct heater. The unit is controlled by an integral electronic temperature regulator, using so-called time-proportional Pulse/ Pause technology. This provides extremely precise temperature control. As a thyristor is used for adjusting the temperature, the unit has no moving parts. This means that it is silent and not susceptible to wear and tear. Terminals for interlocking the heater, via a pressure- and airflow guard are available in the terminal box. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 50 °C.

All CBMs are delivered with duct sensor TG-K330 (0-30 °C) as standard.

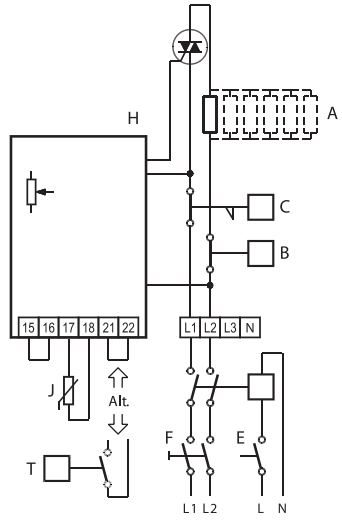


øD = connection diameter

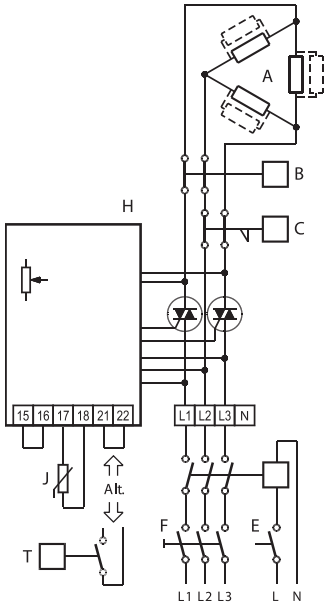
CBM-1 230V~



CBM-2 400V 2~



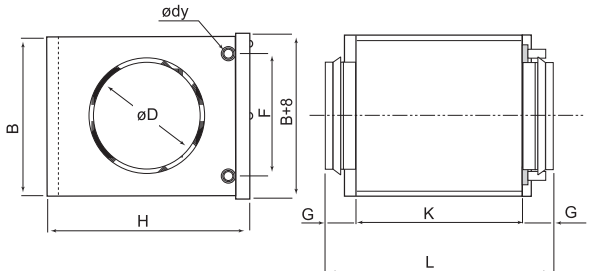
CBM-3 400V 3~



A = Heating elements
B = Overheat protection with automatic reset
C = Overheat protection with manual reset
E = Interlocking
F = All phase breaker
H = Thyristor type Pulser or TTC
J = Sensor
T = Air flow switch/Pressure switch



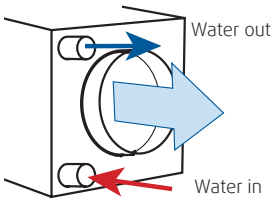
VBC



Water-heating battery

Water-heating battery for heating air in ventilation systems with circular ducts. Aluzinc-coated casing, heat transmission element with copper tubes and aluminium fins. Removable cover for cleaning the unit. The water-heating battery can be installed in a horizontal duct with optional direction of airflow.

Max operating temperature 150 °C.
Max operating pressure 1.6 MPa (16 Bar)
2-and 3-rows batteries.



VBC	øD	B	H	Ødy	F	G	K	L	kg
100-2	100	238	180	10	137	40	276	356	3.7
100-3	100	238	180	10	100	40	276	356	3.8
125-2	125	238	180	10	137	40	276	356	3.5
125-3	125	313	255	10	175	40	276	356	5.5
160-2	160	313	255	10	212	40	276	356	5.4
160-3	160	313	255	10	175	40	276	356	5.4
200-2	200	313	255	10	212	40	276	356	5.3
200-3	200	398	330	22	250	40	276	356	8.2
250-2	250	398	330	22	250	40	276	356	7.7
250-3	250	473	405	22	325	40	276	356	10.2
315-2	315	473	405	22	325	40	276	356	9.9
315-3	315	557	504	22	400	40	276	356	13.4
400-2	400	557	504	22	400	65	276	406	13.1
400-3	400	707	539	22	425	65	330	460	17.9
500-2	500	707	529	22	425	65	330	460	16.9

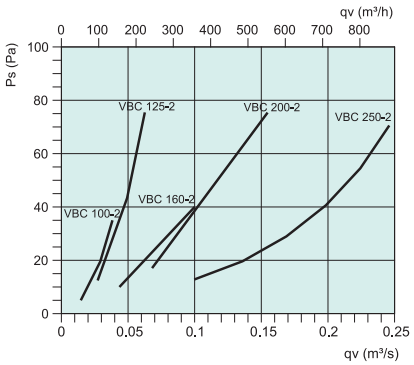
Coil calculation 2 rows

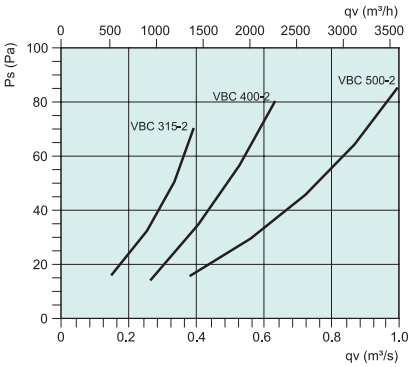
VBC		100-2	125-2	160-2	200-2	250-2	315-2	400-2	500-2
Art. no.		*5456*	*5457*	*5458*	*5459*	*5460*	*5461*	*5462*	*9837*
Air flow	m³/h	144	216	360	540	900	1404	2268	3240
Pressure drop	Pa	35	72	40	73	68	69	77	45
ΔT air at T water 60/40, °C		16	13	19.9	17.3	17.5	18.1	17.7	19.4
Water flow rate	l/s	0.01	0.01	0.03	0.04	0.07	0.11	0.18	0.28
Water speed	m/s	0.15	0.2	0.4	0.6	0.5	0.5	0.6	0.7
Pressure drop	kPa	0.1	0.1	3.0	5.0	3.0	3.0	4.0	6.6
Power	kW	0.85	1.0	2.6	3.5	5.7	9.2	14.6	22.7
ΔT air at T water 90/70, °C		32.5	28.3	35.8	30.4	31.7	32	31	31
Water flow rate	l/s	0.02	0.03	0.06	0.07	0.13	0.2	0.31	0.31
Water speed	m/s	0.3	0.4	0.8	1.1	0.9	1.0	1.1	1.1
Water pressure drop	kPa	1	1	8	13	7	8	10	10
Power capacity	kW	1.7	2.2	4.6	6.1	10.3	16.3	25.5	25.5

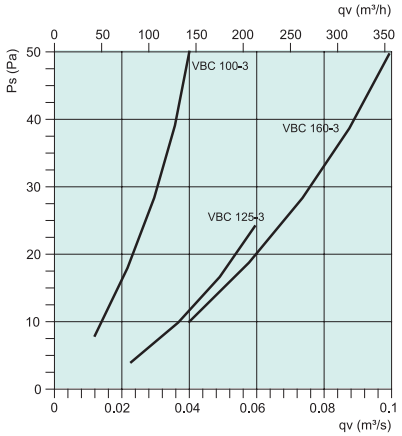
Coil calculation 3 rows

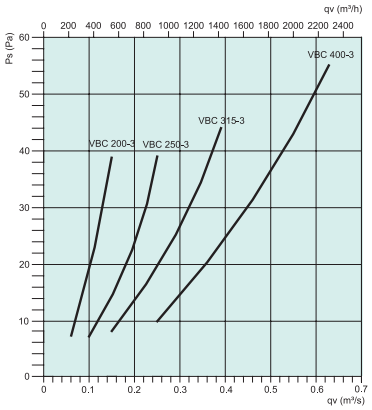
VBC		100-3	125-3	160-3	200-3	250-3	315-3	400-3	
Art. no.		*9838*	*9839*	*9840*	*9841*	*9843*	*9844*	*9845*	
Air flow	m³/h	144	216	360	540	900	1404	2268	
Pressure drop	Pa	39	17.2	41	29	31.2	35	36.3	
ΔT air at T water 60/40, °C		25.9	33.4	29.3	30.7	30.5	30.2	30.3	
Water flow rate	l/s	0.02	0.03	0.05	0.07	0.12	0.19	0.3	
Water speed	m/s	0.24	0.47	0.68	0.54	0.59	0.69	0.74	
Pressure drop	kPa	0.85	5.33	11	5.36	6.23	8.28	10.10	
Power	kW	1.35	2.6	3.8	6.0	9.93	15.3	24.74	
ΔT air at T water 90/70, °C		47.4	56.2	49.7	52.1	51.6	51.0	50.8	
Water flow rate	l/s	0.03	0.05	0.08	0.13	0.21	0.32	0.51	
Water speed	m/s	0.45	0.8	1.17	0.92	1.02	1.17	1.26	
Water pressure drop	kPa	2.65	14	29.5	14.1	16.2	21.4	26.1	
Power capacity	kW	2.46	4.38	6.46	10.17	16.8	25.87	41.6	

Performance VBC



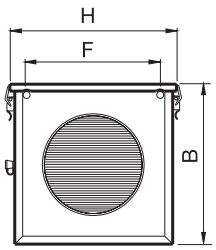


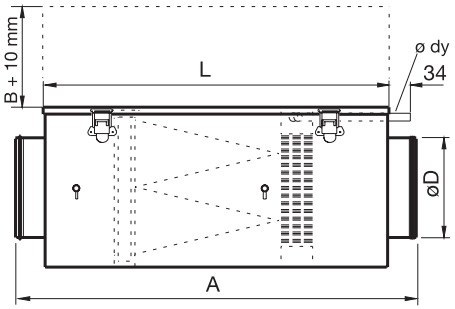






VBF

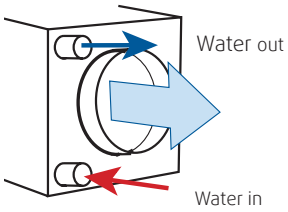




Water- heating battery

Water-heating battery with integral M5 bag filter for heating air in ventilation systems with circular ducts. Casing manufactured from galvanized steel, with copper tubes and aluminium fins. Inspection cover facilitates cleaning and replacement of filter.
The water-heating batter must be installed in a horizontal duct. The bag filter must always be fitted vertically. The VBF is fitted with connections for connecting to a filter monitor.
The Systemair fan selection programme includes a special selection programme for water-heating batteries. The recommended final pressure drop is 200 Pa.

VBF	øD	A	B	H	L	ødy	F	kg
100	100	665	254	266	599	22	213	8
125	125	665	254	266	599	22	213	8
160	160	665	254	266	599	22	213	8
200	200	665	254	266	599	22	213	8
250	250	795	354	366	699	22	313	12
315	315	895	454	466	799	22	413	17
355	355	920	454	466	799	22	413	17
400	400	920	454	466	799	22	413	17

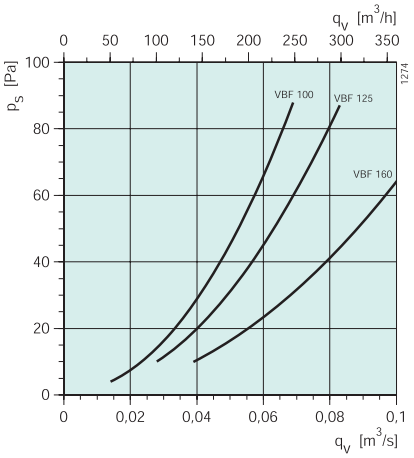


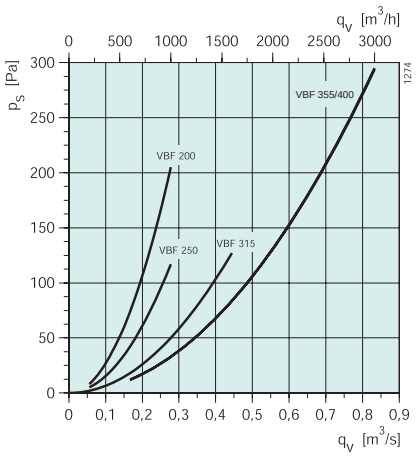
VBF	Bag filter	Filter class
100	BFR 200	G3, F5, F7
125	BFR 200	G3, F5, F7
160	BFR 200	G3, F5, F7
200	BFR 200	G3, F5, F7
250	BFR 315	G3, F5, F7
315	BFR 355	G3, F5, F7
355	BFR 355	G3, F5, F7
400	BFR 355	G3, F5, F7

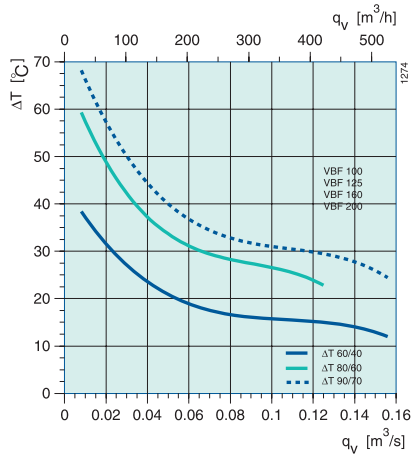
Coil calculation 2 rows

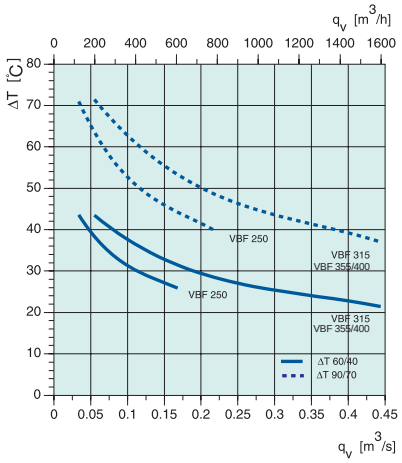
VBF		100	125	160	200	250	315	355	400
Art. no.		*1724*	*1730*	*1731*	*1732*	*1733*	*1734*	*1735*	*1736*
Air flow	m^3/h	144	180	432	576	612	1008	1584	1584
Air velocity	m/s	1.2	1.6	3.5	4.6	1.8	1.7	2.7	2.7
ΔT air at T water 60/40 °C		23.3	20.9	14.3	12.6	25.9	26.2	21.5	21.5
Water flow rate	l/s	0.01	0.02	0.03	0.03	0.06	0.11	0.14	0.14
Water speed	m/s	0.1	0.1	0.2	0.2	0.5	0.4	0.5	0.5
Pressure drop	kPa	0.1	0.2	0.4	0.5	3.5	1.6	2.6	2.6
Power	kW	1.17	1.35	2.1	2.4	5.31	8.82	11.67	11.67
ΔT air at T water 90/70 °C		44	39.9	28.2	25	44.3	44.9	37.2	37.2
Water flow rate	l/s	0.03	0.03	0.03	0.06	0.11	0.18	0.24	0.24
Water speed	m/s	0.2	0.2	0.4	0.4	0.8	0.7	0.9	0.9
Water pressure drop	kPa	0.4	0.5	1.2	1.6	8.1	3.7	6.3	6.3
Power capacity	kW	2.2	2.58	4.13	4.76	8.97	15.11	20.18	20.18
Filter media		F5	F5	F5	F5	F5	F5	F5	F5

Performance VBF



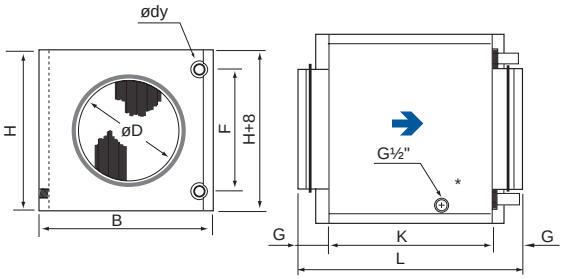








CWK



*) Condensate drain

Water-cooling battery for circular ducts

Casing manufactured from aluzinc coated steel with connection tubes from copper and aluminium tubes and fins. Inspection covers for easy cleaning and maintenance. Connection sleeves with rubber seal.
Max. operating temperature 150 °C
Max. operating pressure 1.6 MPa (16Bar)

CWK	Art. no.	øD	B	H	ødy	F	G	K	L	kg
100-3-2.5	30019	100	251	180	10	100	40	276	356	4.4
125-3-2.5	30021	125	326	255	10	175	40	276	356	6.5
160-3-2.5	30022	160	326	255	10	175	40	276	356	6.7
200-3-2.5	30023	200	411	330	22	250	40	276	356	9.4
250-3-2.5	30024	250	486	405	22	325	40	276	356	11.0
315-3-2.5	30025	315	560	504	22	400	40	276	356	14.3
400-3-2.5	30026	400	710	529	22	425	65	330	460	19.5

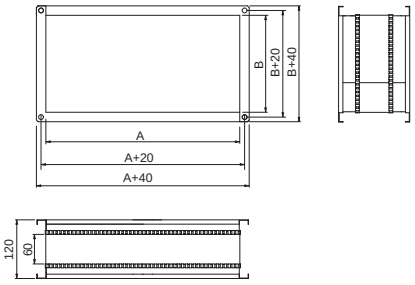
Coil calculation

CWK	Air						Capacity	Water	
	Flow (m³/h)	Velocity m/s	Pressure drop (Pa)	Before (°C)	Before (% RH)	After (°C)	(kW)	Flow (l/s)	Pressure drop (kPa)
100-3-2.5	54	2	7	25	50	14.3	0.2	0.01	< 0.5
	54	2	7	30	45	15.8	0.4	0.01	1
	100	3.5	22	25	50	16.4	0.3	0.01	1
	100	3.5	22	30	45	18.5	0.5	0.02	2
	145	5	58	25	50	17.5	0.4	0.02	1
	145	5	58	30	45	20.0	0.6	0.02	3
125-3-2.5	85	2	3	25	50	12.6	0.5	0.02	3
	85	2	3	30	45	13.5	0.7	0.03	5
	150	3	9	25	50	14.5	0.7	0.03	5
	150	3	9	30	45	15.7	1.1	0.04	10
	215	4.5	18	25	50	15.6	0.8	0.03	7
	215	4.5	18	30	45	17.0	1.4	0.05	16
160-3-2.5	145	2	9	25	50	14.4	0.7	0.03	4
	145	2	9	30	45	15.6	1.0	0.04	10
	250	3.5	24	25	50	16.1	0.9	0.04	8
	250	3.5	24	30	45	17.4	1.5	0.06	20
	355	5	45	25	50	17.0	1.1	0.04	11
	355	5	45	30	45	18.4	1.3	0.08	32
200-3-2.5	225	2	6	25	50	14.1	1.0	0.05	2
	225	2	6	30	45	15.3	1.6	0.06	5
	390	3.5	17	25	50	15.9	1.4	0.06	4
	390	3.5	17	30	45	17.3	2.3	0.09	9
	555	5	33	25	50	16.9	1.7	0.07	5
	555	5	33	30	45	18.4	3.1	0.12	15
250-3-2.5	360	2	6	25	50	14.2	1.6	0.06	2
	360	2	6	30	45	15.4	2.5	0.10	5
	630	3.5	18	25	50	16.0	2.2	0.09	4
	630	3.5	18	30	45	17.3	3.8	0.15	10
	900	5	34	25	50	17.0	2.7	0.11	6
	900	5	34	30	45	18.2	5.1	0.20	17
315-3-2.5	560	2	7	25	50	14.5	2.4	0.10	3
	560	2	7	30	45	15.4	3.9	0.16	7
	985	3.5	20	25	50	16.1	3.4	0.13	5
	985	3.5	20	30	45	17.2	6.1	0.24	14
	1410	5	39	25	50	17.0	4.3	0.17	8
	1410	5	39	30	45	18.1	8.3	0.33	25
400-3-2.5	900	2	9	25	50	15.2	3.4	0.14	2
	900	2	9	30	45	16.3	5.8	0.23	5
	1590	3.5	25	25	50	16.8	4.8	0.19	4
	1590	3.5	25	30	45	17.8	9.3	0.37	12
	2280	5	49	25	50	17.6	6.1	0.24	6
	2280	5	49	30	45	18.6	12.8	0.51	22



DS

DS	Art. no.	A	B
30-15	1537	300	150
40-20	1539	400	200
50-25	1542	500	250
50-30	1544	500	300
60-30	1547	600	300
60-35	1549	600	350
60-40	13861	600	400
60-50	19969	600	500
70-30	14150	700	300
70-40	1551	700	400
80-35	14128	800	350
80-40	13777	800	400
80-50	1553	800	500
100-35	14158	1000	350
100-50	1555	1000	500



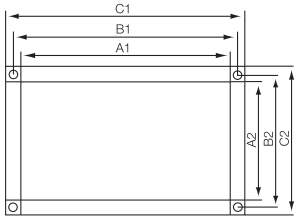
Rectangular flexible connections

Flexible lengths from 100 to 158 mm.



GFL

GFL	Art. no.	A1	A2	B1	B2	C1	C2
40-20	2705	400	200	420	220	440	240
50-25	2706	500	250	520	270	540	290
50-30	2707	500	300	520	320	540	340
60-30	2708	600	300	620	320	640	340
60-35	2709	600	350	620	370	640	390
70-40	2710	700	400	720	420	740	440
80-50	2711	800	500	820	520	840	540



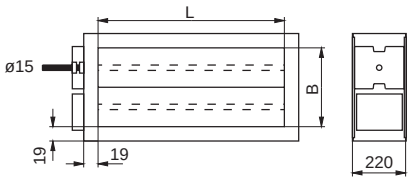
Counterflange

Used as a flange for mounting to the duct system. Manufactured from galvanized steel. Suitable for rectangular ducts.



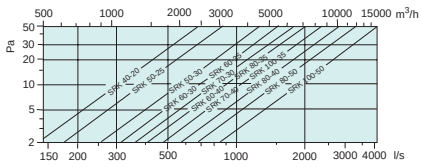
SRK

blades are connected via a linkage on the outside of the steel-plate sleeve coupling. The linkage is protected so that the valve can be insulated together with the duct. The blades and sleeve coupling are manufactured from galvanized steel.



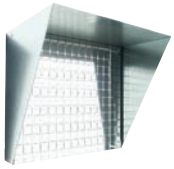
SRK	Art. no.	L	B
40-20	7020	400	201
50-25	7021	500	251
50-30	7022	500	301
60-30	7023	600	301
60-35	7024	600	351
70-40	7025	700	401
80-50	7028	800	501
100-50	7029	1000	501

Pressure drop



Volume control damper

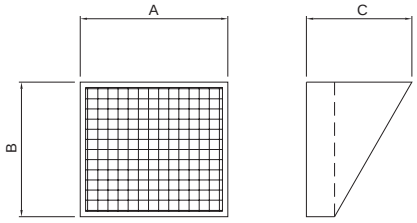
Damper with the same flange system as rectangular duct fans. Air tightness class 3. The Damper consists of a number of blades which close towards each other. These are mounted inside a steel sleeve on bushes made of glass-fibre reinforced nylon. The



ORH

nized steel frame fitting into the outlet spigot with a grill of the same material covering the total outlet surface.

ORH	unit size	A	B	C
1	7/7	273	249	52
2	9/7 + 9/9	339	305	52
3	10/8 + 10/10	367	330	52
4	12/9 + 12/12	427	382	52
5	5/8	290	124	52

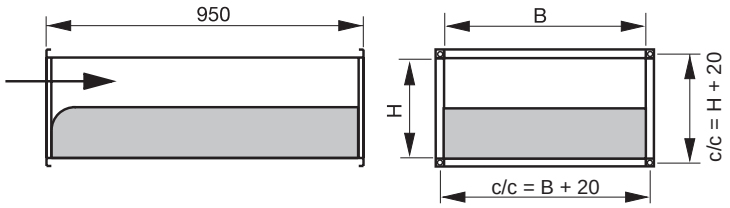


Outlet hood

Outlet protection to avoid foreign objects to enter into the unit. It consists of a galva-



LDR



Silencer for rectangular ducts

Easily-fitted silencer immediately before or after the KE, KT, RS and RSI range of rectangular duct fans. Effectively suppresses noise transmitted to the duct. The silencer should be used in conjunction with an insulated fan where there is a requirement for noise suppression both in the duct and in the surroundings as a whole. All silencers are supplied with a universal flange suitable for PG flange or Metu profile.

NOTE! Ensure that LDR silencer is mounted in the correct position. Failure to do this will result in high pressure drop.

LDR	Art. no.	B	H	kg
30-15	5068	300	150	10
40-20	5069	400	200	13
50-25	5070	500	250	17
50-30	5071	500	300	19
60-30	5072	600	300	21
60-35	5073	600	350	23
70-40	5074	700	400	27
80-50	5075	800	500	34
100-50	5067	1000	500	41

Noise suppression dB (mid-frequency Hz)							
LDR	125	250	500	1k	2k	4k	8k
30-15	7	15	18	25	25	19	19
40-20	5	9	15	23	16	12	10
50-25	10	15	25	25	20	15	12
50-30	8	15	20	31	17	14	11
60-30	8	15	20	31	17	14	11
60-35	7	13	17	18	13	10	8
70-40	7	11	14	14	10	8	6
80-50	6	8	10	11	8	6	3
100-50	6	8	10	11	8	6	3

Pressure drop calculation for rectangular silencers

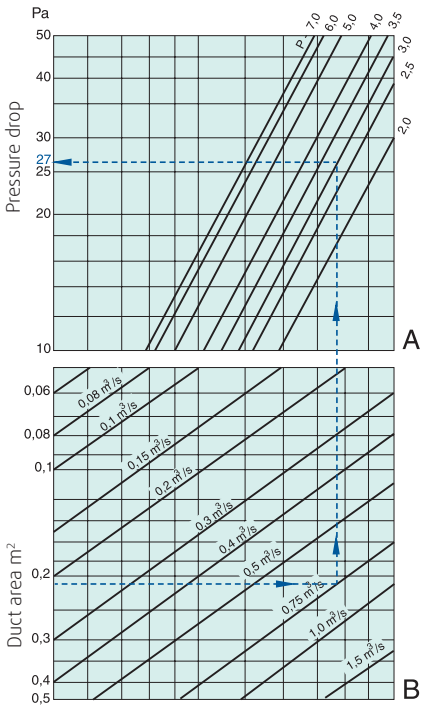
These calculations apply only if the silencer is connected to a duct at both ends.

Example: Calculation of pressure drop for the LDR 60-35 (with fan model RSI 60-35 M3~) using the diagram to the right.

1. Start by defining the front area, see the table below.
2. Move horizontally to the right until you reach the designated air flow in diagram B.
3. Go up vertically to diagram A and the correct p value (see the table).
4. Then continue horizontally to the left and read off the pressure drop.

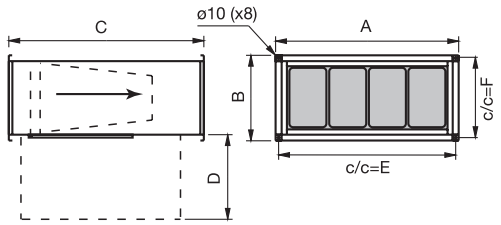
In this example, the pressure drop is 27 Pa.

	Front area m²	P
30-15	0.045	3.5
40-20	0.08	3.6
50-25	0.125	3.7
50-30	0.15	3.3
60-30	0.18	3.3
60-35	0.21	3.0
70-40	0.28	3.1
80-50	0.40	3.6
100-50	0.50	3.6





FFK

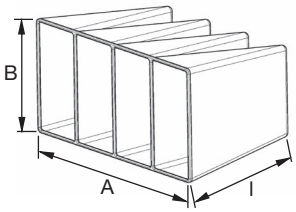


FFK	A	B	C	D	E	F
30-15	340	190	402	250	320	170
40-20	440	240	502	350	420	220
50-25	540	290	532	350	520	270
50-30	540	340	562	350	520	320
60-30	640	340	642	350	620	320
60-35	640	390	717	350	620	370
70-40	740	440	787	420	720	420
80-50	840	540	882	530	820	520
100-50	1040	540	882	530	1020	520

Filter cassette rectangular

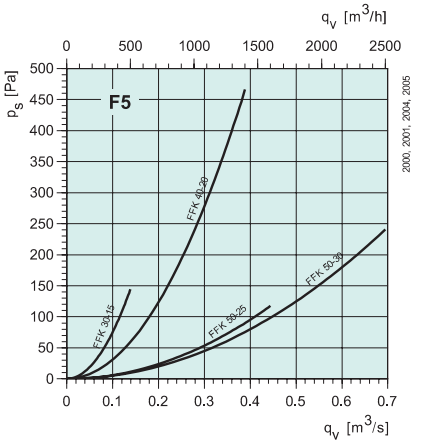
A filter cassette designed for bag filters standard type M5 or F7. The cassette casing is manufactured from galvanized steel. It has a hinged cover underneath fitted with a quick release latch, which makes it easy to replace the filter. The filter cassette can be connected directly on to the duct and is fitted either horizontally or vertically. If fitted vertically, the direction of the air flow must be downwards so that the filter bags do not collapse. BFK filter, in the M5 or F7 filter classes, are to be ordered separately. The recommended final pressure drop is 200 Pa for the M5 filter and 250 Pa for the F7 filter. The cassette is fitted with connections for connecting to a pressure sensor.

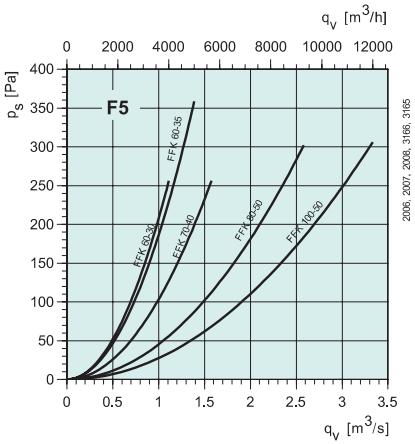
FFK	Art. no.	Bag filter	Art. no. M5	Art. no. F7
30-15	1748	BFK 30-15	5233	5225
40-20	1750	BFK 40-20	5217	5216
50-25	1752	BFK 50-25	5218	5228
50-30	1755	BFK 50-30	5219	5229
60-30	1758	BFK 60-30	5244	5230
60-35	1761	BFK 60-35	5220	5231
70-40	1762	BFK 70-40	5245	5232
80-50	30236	BFK 80-50	30238	30239
100-50	30237	BFK 100-50	30240	30241

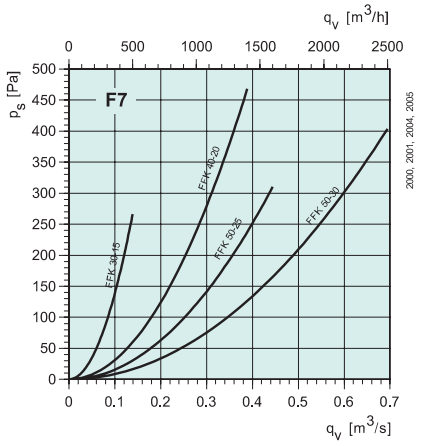


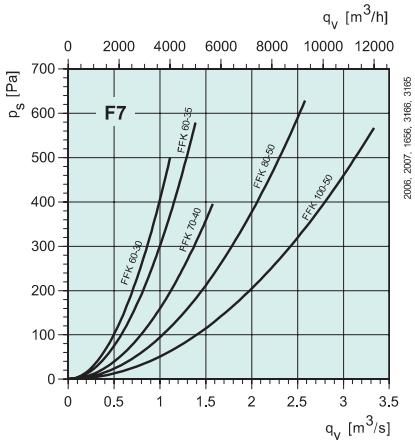
BFK	A	B	I	No. of filer bags
30-15	286/287	142/143	300/280	2/5
40-20	386/387	192/193	400/360	3/5
50-25	486/487	242/243	430/370	4/7
50-30	486/487	292/293	490/355	4/7
60-30	586/587	292/293	540/525	4/8
60-35	586/587	342/343	590/515	4/8
70-40	686/687	392/393	700/625	5/9
80-50	785/785	490/490	600/600	6/10
100-50	985/985	490/490	600/600	7/14

Pressure drop











RB

Duct heater for rectangular ducts

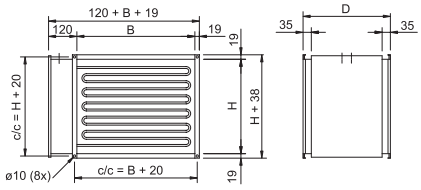
Manufactured from alu-zinc coated steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. Suitable for control by room thermostat or TTC. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 40 °C.

RB		40-20/9	40-20/15	50-25/15	50-25/22	50-30/15	50-30/27
Art. no.		*9627*	*9628*	*9629*	*9633*	*9635*	*9637*
Power	kW	9	15	15	22	15	27
Voltage	V	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~
Current	A	13	22	22	31.8	22	39
Min. air flow	m^3/h	450	450	700	700	850	850
Weight	kg	9.5	12.5	13.1	19.0	13.8	21.2

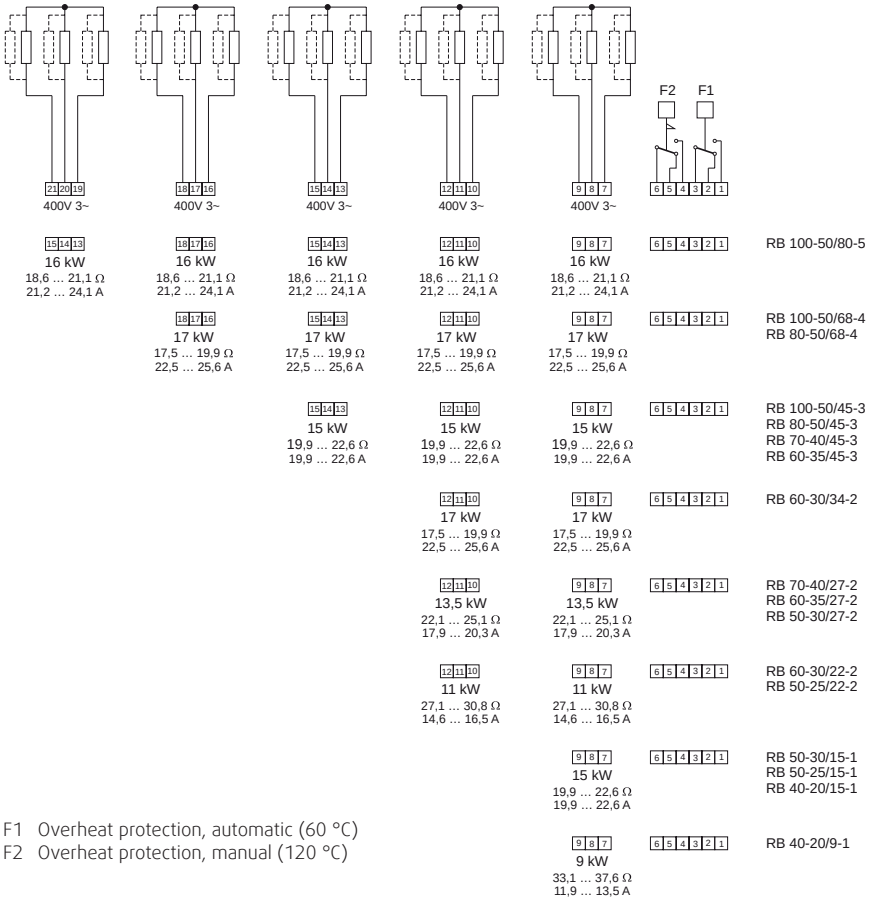
RB		60-30/22	60-30/34	60-35/27	60-35/45	70-40/27	70-40/45
Art. no.		*9638*	*9641*	*9643*	*9644*	*9645*	*9646*
Power	kW	22	34	27	45	27	45
Voltage	V	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~
Current	A	31.8	49.1	39	65	39	65
Min. air flow	m^3/h	1000	1000	1000	1000	1600	1600
Weight	kg	13.8	22.4	19.8	27.7	21.1	26.5

RB		80-50/45	80-50/68	100-50/45	100-50/68	100-50/80	
Art. no.		*9647*	*9648*	*9649*	*9650*	*9661*	
Power	kW	45	68	45	68	80	
Voltage	V	400 3~	400 3~	400 3~	400 3~	400 3~	
Current	A	65	98.2	65	98.2	116	
Min. air flow	m^3/h	1600	2200	2800	2800	2800	
Weight	kg	30.5	39	33.6	42.1	44.8	

TTC see page 503
For sensors see page 505



RB	B	H	D
40-20/9	400	200	370
40-20/15	400	200	500
50-25/15	500	250	370
50-25/22	500	250	500
50-30/15	500	300	370
50-30/27	500	300	500
60-30/22	600	300	500
60-30/34	600	300	500
60-35/27	600	350	370
60-35/45	600	350	500
70-40/27	700	400	370
70-40/45	700	400	370
80-50/45	800	500	370
RB 80-50/68	800	500	370
RB 100-50/68	1000	500	370
RB 100-50/80	1000	500	370



F1 Overheat protection, automatic (60 °C)
F2 Overheat protection, manual (120 °C)

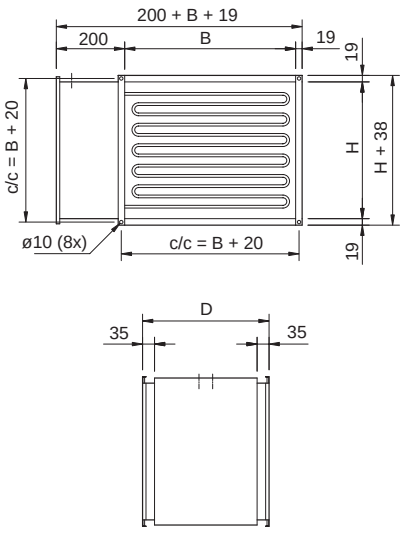


RBM

RBM		40-20/9	50-25/15	50-30/15	60-30/27	60-35/27	70-40/27
Art. no.		*5450*	*5451*	*5452*	*5453*	*5454*	*5455*
Power	kW	9	15	15	27	27	27
Voltage	V	400 3~	400 3~	400 3~	400 3~	400 3~	400 3~
Current	A	13	22	22	39	39	39
Min. air flow	m^3/h	450	700	850	1000	1200	1600
Weight	kg	19	20.2	21	26.4	17	29.7

Duct heater for rectangular ducts

Duct heater with integral control equipment. Manufactured from alu-zinc coated sheet steel with a heating element in stainless steel. The heater has integral overheating protection with a manual reset function. The unit is controlled by an integral electronic temperature regulator, using so-called time-proportional Pulse/Pause technology. This provides extremely precise temperature control. As a thyristor is used for adjusting the temperature, the unit has no moving parts. This means that it is silent and not susceptible to wear and tear. The RBM is supplied with a complete and fully-connected control system including contactors and alarm relays. This minimises the installation cost. The external installation requirements are: mains power supply, control circuit, dial for setting required temperature, sensor and a possible alarm circuit. The minimum air volume is based on a minimum air velocity of 1.5 m/s. These duct heaters are designed for a maximum output air temperature of 40 °C. All RBM are delivered with a TG-R430 room sensor with adjustment of set desired value.

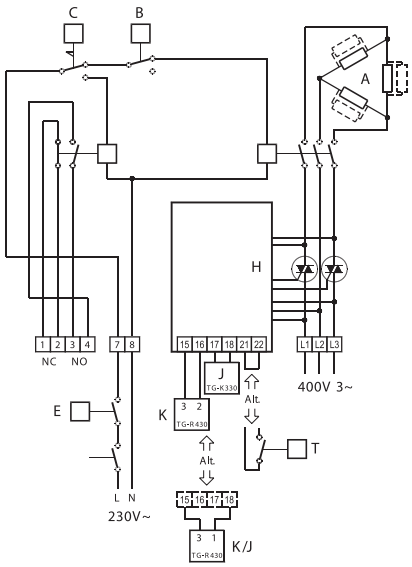


RBM	B	H	D
40-20/9	400	200	500
50-25/15	500	250	500
50-30/15	500	300	500
60-30/27	600	300	500
60-35/27	600	350	500
70-40/27	700	400	500

Calculation of required heating power

P=qv x air density x delta t

P = power in kW
q_v = air volume in m^3/s
air density = 1.2 kg/m^3 at 20 °C
delta T = temperature difference

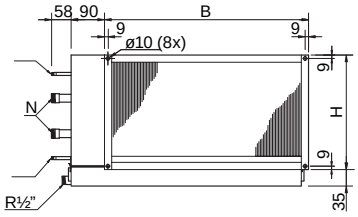


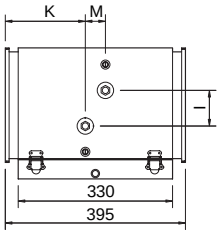
A = Heating elements
B = Overheat protection with automatic reset
C = Overheat protection with manual reset
E = Flow control
H = Thyristor (or TTC)
J = Sensor
K = Set value adjustment
K/J = Combined room sensor and set value adjustment
T = Air flow switch/Pressure switch

For sensors see page 505



PGK

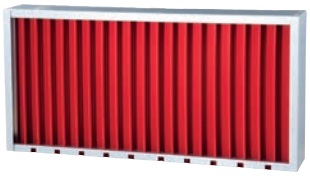




Cold water-cooling battery for rectangular ducts

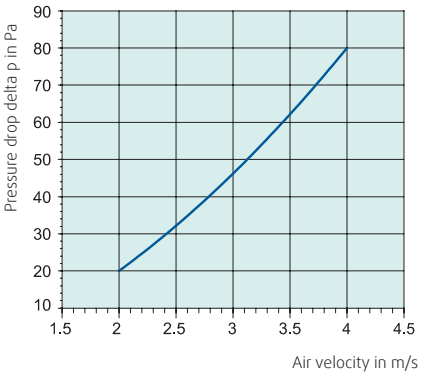
Casing manufactured from aluzinc coated steel. Cooling elements from copper tubes and aluminium fins. Air vent and drain valve included. Drip tray manufactured from stainless steel and condensate connection (R½"). Max. working pressure 1.6 MPa (16 bar). For water connection left or right. Two inspection covers for cleaning and maintenance.

Droplet separator DE as an accessory regardless of air direction. Recommended for air velocities from 2.5 m/s.



NOTE! *Droplet separator DE must be ordered extra. Recommended for air velocities from 2.5 m/s.*

Pressure drop DE, droplet eliminator



PGK	Art. no.	B	H	I	K	M	N
40-20-3	6604	438	238	70	176	43	R 3/4
50-25-3	6606	538	288	120	176	43	R 3/4
50-30-3	6608	538	338	175	176	43	R 3/4
60-30-3	6610	638	338	170	176	43	R 3/4
60-35-3	6612	638	388	220	176	43	R 3/4
70-40-3	6616	738	438	250	170	55	R1
80-50-3	6619	838	538	340	170	55	R1 1/4
100-50-3	6601	1038	538	350	170	55	R1 1/4

Coil calculation, water temp 6/12°C

PGK	Air flow [m³/h]	Air velocity m/s	Air pressure drop (Pa)	Air before (°C)	Air before (% RH)	Air after (°C)	Capacity (kW)	Water flow (l/s)	Water pressure drop (kPa)
40x20-3-2.0	576	2	31	25	50	17.0	1.53	0.06	1
	576	2	36	30	45	19.0	2.50	0.10	3
	864	3	66	25	50	18.4	1.89	0.08	2
	864	3	72	30	45	20.2	3.26	0.13	5
	1152	4	113	25	50	19.2	2.20	0.09	2
	1152	4	119	30	45	20.8	4.15	0.17	7
50x25-3-2.0	900	2	31	25	50	17.0	2.38	0.09	2
	900	2	36	30	45	18.6	4.27	0.17	5
	1350	3	66	25	50	18.2	3.02	0.12	3
	1350	3	72	30	45	19.4	6.16	0.25	9
	1800	4	113	25	50	18.9	3.61	0.14	4
	1800	4	119	30	45	19.8	8.34	0.33	15
50x30-3-2.0	1080	2	31	25	50	17.1	2.83	0.11	1
	1080	2	36	30	45	18.8	4.93	0.20	4
	1620	3	66	25	50	18.4	3.56	0.14	2
	1620	3	72	30	45	19.7	6.94	0.28	7
	2160	4	113	25	50	19.1	4.22	0.17	3
	2160	4	119	30	45	20.1	9.40	0.37	12
60x30-3-2.0	1296	2	31	25	50	17.3	3.3	0.13	1
	1296	2	36	30	45	19.0	5.69	0.23	3
	1944	3	66	25	50	18.6	4.13	0.16	2
	1944	3	72	30	45	19.8	8.12	0.32	6
	2592	4	113	25	50	19.3	4.90	0.20	3
	2592	4	119	30	45	20.1	11.18	0.45	11
60x35-3-2.0	1512	2	31	25	50	17.3	3.86	0.15	1
	1512	2	36	30	45	19.0	6.64	0.26	3
	2268	3	66	25	50	18.6	4.82	0.19	2
	2268	3	72	30	45	19.8	9.48	0.38	6
	3024	4	113	25	50	19.3	5.72	0.23	3
	3024	4	119	30	45	20.1	13.05	0.52	11
70x40-3-2.0	1920	2	47	25	50	17.1	5.02	0.20	1
	1920	2	55	30	45	18.1	8.66	0.35	3
	2880	3	91	25	50	18.5	6.20	0.25	1
	2880	3	100	30	45	18.8	12.94	0.52	4
	3840	4	142	25	50	19.3	7.26	0.29	2
	3840	4	151	30	45	19.0	18.41	0.73	8
80x50-3-2.0	2743	2	47	25	50	17.1	7.20	0.29	1
	2743	2	55	30	45	17.6	13.59	0.54	3
	4115	3	91	25	50	18.4	9.04	0.36	1
	4115	3	100	30	45	18.0	21.61	0.86	6
	5486	4	142	25	50	19.0	10.82	0.43	2
	5486	4	151	30	45	18.6	28.41	1.13	10
100x50-3-2.0	3429	2	47	25	50	17.5	8.56	0.34	1
	3429	2	55	30	45	17.9	16.13	0.64	2
	5144	3	91	25	50	18.7	10.72	0.43	1
	5144	3	100	30	45	18.0	26.77	1.07	6
	6858	4	142	25	50	19.3	12.85	0.51	2
	6858	4	151	30	45	18.6	35.52	1.41	10



DXRE

Rectangular duct cooler with DX coil

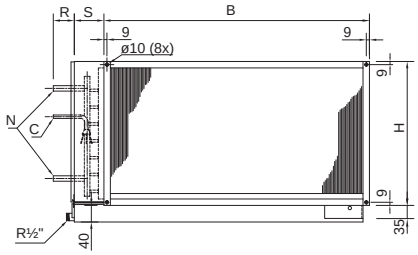
- Same model for left-hand or right-hand installation (reversible coil)
- Stainless steel condensate drip tray. A droplet eliminator can be fitted regardless of the direction of air flow
- Easily removable drip tray to simplify cleaning and inspection

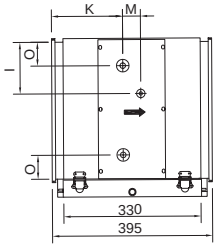
DXRE are mostly used for central cooling in a ventilation system but can also be used for individual cooling of the air supplied to individual rooms (zones).

The DXRE is intended for installation in a horizontal duct, with the air flow in either direction (reversible coil).

We recommend that a DE droplet eliminator (accessory) should be installed on the outlet side of the coil if the air velocity is in excess of 2.5 m/s. This prevents water droplets being entrained by the air flow out into the duct system.

Max. operating pressure 3.2 MPa (32 bar)





Coil calculation

Refrigerant R407C, 5 °C DXRE	Air flow (m³/h)	Air pressure drop (Pa)	Air in (°C)	Air in (% RH)	Air out (°C)	capacity (kW)	Refrigerant flow (kg/h)	Refrigerant pressure drop (kPa)
40x20-3-2.5	575	32	25	50	15.8	2.2	51	3
	575	36	30	50	18.8	3.2	75	6.1
	865	60	25	50	16.9	2.7	63	4.3
	865	68	30	50	20.4	3.9	90	8.7
	1150	91	25	50	17.5	2.8	65	4.9
	1150	107	30	50	21.2	4.4	104	11.3
50x25-3-2.5	900	32	25	50	15.8	3.4	80	3.2
	900	36	30	50	18.7	5	118	6.6
	1350	60	25	50	16.9	4.2	99	5
	1350	69	30	50	20.1	6.3	147	9.8
	1800	92	25	50	18	4.4	103	5.2
	1800	108	30	50	21.2	7.1	165	12.1
50x30-3-2.5	1080	32	25	50	15.5	4.3	101	6.1
	1080	36	30	50	18.3	6.4	149	11.9
	1620	62	25	50	16.6	5.4	126	8.8
	1620	70	30	50	19.8	7.9	186	17.6
	2160	97	25	50	17.3	6.3	147	11.6
	2160	110	30	50	20.9	8.9	208	21.7
60x30-3-2.5	1300	33	25	50	15.4	5.3	116	8.4
	1300	37	30	50	17.8	8.2	180	18.5
	1950	63	25	50	16.5	6.6	145	12.6
	1950	71	30	50	19.6	9.7	213	25.2
	2600	99	25	50	17.3	7.7	170	16.7
	2600	112	30	50	20.8	11	241	31.5
60x35-3-2.5	1510	32	25	50	15.5	6	131	7.5
	1510	36	30	50	18.4	8.7	192	12.8
	2270	62	25	50	16.7	7.5	164	10.1
	2270	70	30	50	19.8	11	242	18.6
	3025	97	25	50	17.4	8.6	189	12.5
	3025	110	30	50	21	12.4	272	22.6
70x40-3-2.5	2015	40	25	50	14.7	8.6	188	7.6
	2015	44	30	50	17.4	12.5	274	13.3
	3020	72	25	50	16.3	9.6	211	9
	3020	83	30	50	19.3	14.7	323	17.4
	4030	112	25	50	16.5	11.2	246	11.3
	4030	130	30	50	20.2	16.9	370	20
80x50-3-2.5	2880	39	25	50	14.6	12.4	272	8.8
	2880	44	30	50	17.3	18.1	398	15.7
	4320	73	25	50	16.2	14.1	309	10.6
	4320	84	30	50	19.1	21.8	477	21.2
	5760	113	25	50	16.4	16.2	356	13.2
	5760	131	30	50	20.2	24.5	538	25.9
100x50-3-2.5	3600	40	25	50	14.3	16.3	356	15.1
	3600	45	30	50	16.9	23.6	517	28
	5400	74	25	50	15.9	18.7	411	19
	5400	86	30	50	18.6	29.1	638	40.2
	7200	116	25	50	16.7	21.4	470	23.8
	7200	134	30	50	19.9	31.9	699	47

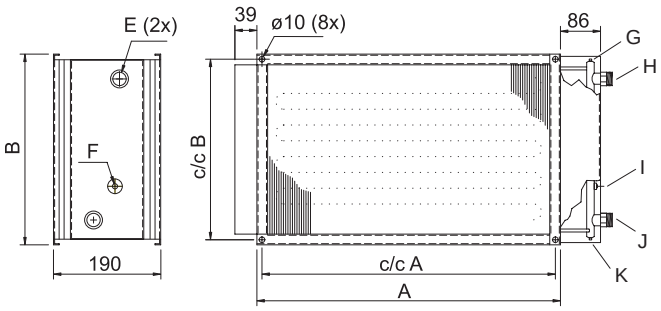
Refrigerant	R 134A	R 404A	R 507A
Factor	0.93	1.00	0.97

Recalculation of the basic value with different refrigerants.

DXRE	Art. no.	B	H	I	O	K	M	N	S	R	C
400x200-3-2.5	7951	438	238	70	100	165	60	19	90	105	1/2"
500x250-3-2.5	7952	558	288	120	30	165	60	22	90	105	1/2"
500x300-3-2.5	7953	558	338	175	30	165	60	22	90	105	1/2"
600x300-3-2.5	7955	638	338	170	30	165	60	22	90	105	5/8"
600x350-3-2.5	7956	638	388	220	30	165	60	22	90	105	5/8"
700x400-3-2.5	7957	738	438	250	30	160	75	35	100	115	5/8"
800x500-3-2.5	7958	838	538	340	30	160	75	35	100	115	5/8"
1000x500-3-2.5	7959	1038	538	350	30	160	75	35	100	115	5/8"



VBR



F Thread G 1/4
G Airing
H Water out
I Connection for immersion sensor
J Water in
K Draining

Water-heating battery

Water-heating battery for heating air in ventilation systems with rectangular ducts. Hot dip galvanized casing, heat transmission element with copper tubes and aluminium fins. In cold conditions, a frost protection device with sensor should be fitted to reduce the risk of damage from freezing.

VBR XX-XX-2 = Two pipe rows
VBR XX-XX-4 = Four pipe rows
VBR XX-XX-3 = Three pipe rows

VBR	Art. no.	A	c/c A	B	c/c B	E	kg
40-20-2	5463	438	420	238	220	R¾''	5.5
50-25-2	5464	538	520	288	270	R¾''	7
50-30-2	5465	538	520	338	320	R¾''	8
60-30-2	5466	638	620	338	320	R¾''	9
60-35-2	5467	638	620	388	370	R¾''	10
70-40-2	5468	738	720	438	420	R 1''	12.5
80-50-2	5469	838	820	538	520	R 1''	16
100-50-2	5470	1038	1020	538	520	R 1''	18.5

		A	c/c A	B	c/c B	E	kg
40-20-4	5471	438	420	238	220	R¾''	7
50-25-4	5472	538	520	288	270	R¾''	9
50-30-4	5473	538	520	338	320	R 1''	10.5
60-30-4	5474	638	620	338	320	R 1''	11.5
60-35-4	5475	638	620	388	370	R 1''	13

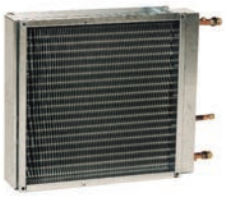
		A	c/c A	B	c/c B	E	kg
70-40-3	5476	738	720	438	420	R 1''	15.5
80-50-3	5477	838	820	538	520	R 1''	19
100-50-3	5478	1038	1020	538	520	R 1''	22.5

Max. operating temperature	150 °C	
Max. operating pressure, at water temp.	100 °C	16 bar
Max. operating pressure, at water temp.	150 °C	10 bar

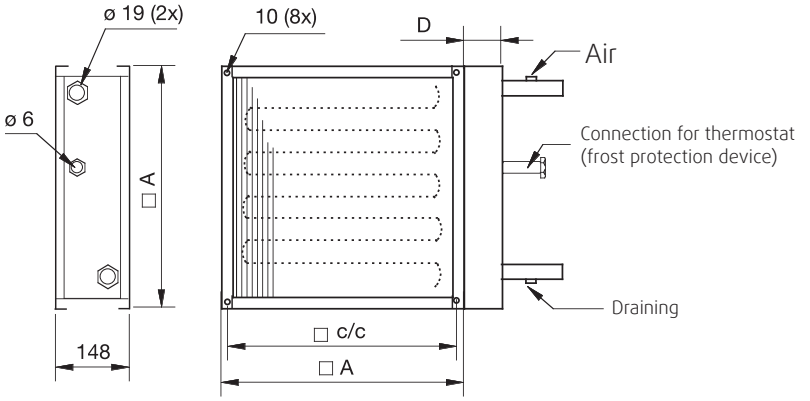
Coil calculation

VBR	Water temp. (in/out) (°C)	Air Flow (m^3/h)	Pressure drop (Pa)	ΔT (K)	Capacity (kW)	Water Flow (l/s)	Pressure drop (kPa)
40-20-2	60/40	400	9	18.5	2.7	0.03	0.5
		1000	48	12.7	4.6	0.06	1
40-20-4		400	18	29.5	4.3	0.05	0.5
		1000	96	19.5	7.1	0.09	0.5
40-20-2	80/60	400	9	32.8	4.7	0.06	1
		1000	48	24.5	8.9	0.11	2
40-20-4		400	18	46.3	6.7	0.08	0.5
		1000	96	38.9	14.0	0.17	1
50-25-2	60/40	600	8	21.7	4.7	0.06	1
		1200	29	18.2	7.9	0.10	2
50-25-4		600	16	33.1	7.2	0.09	0.5
		1200	59	28.4	12.3	0.15	1
50-25-2	80/60	600	8	36.5	7.9	0.10	2
		1200	29	28.6	12.4	0.15	4
50-25-4		600	16	54.5	11.8	0.14	1
		1200	59	45.9	19.9	0.24	3
50-30-2	60/40	800	10	18.2	5.3	0.06	0.5
		2000	54	13.5	9.8	0.12	1
50-30-4		800	20	32.5	9.4	0.11	1
		2000	109	27.2	19.7	0.24	2
50-30-2	80/60	800	10	33.6	9.7	0.12	1
		2000	54	24.3	17.5	0.21	2
50-30-4		800	20	53.8	15.5	0.19	1
		2000	109	41.7	30.1	0.37	4
60-30-2	60/40	1000	11	19.2	6.9	0.08	1
		2500	58	15.4	13.9	0.17	2
60-30-4		1000	22	34.1	12.3	0.15	1
		2500	117	28.2	25.5	0.31	4
60-30-2	80/60	1000	11	34.3	12.4	0.15	1
		2500	58	24.4	22.1	0.27	4
60-30-4		1000	22	53.9	19.5	0.24	2
		2500	117	41.8	37.8	0.46	7
60-35-2	60/40	1200	11	18.7	8.1	0.10	0.5
		3000	61	15.0	16.3	0.20	2
60-35-4		1200	23	34.2	14.8	0.18	1
		3000	123	28.1	30.4	0.37	4
60-35-2	80/60	1200	11	33.9	14.7	0.18	1
		3000	61	24.1	26.1	0.32	3
60-35-4		1200	23	53.6	23.2	0.28	3
		3000	123	41.5	45.0	0.55	8
70-40-2	60/40	2000	31	20.1	14.5	0.18	1
		4000	94	16.0	23.2	0.28	1
70-40-3		2000	46	24.7	17.8	0.22	0.5
		4000	139	21.1	30.5	0.37	1
70-40-2	80/60	2000	31	34.7	25.1	0.31	1
		4000	94	25.1	36.3	0.44	3
70-40-3		2000	46	45.4	32.8	0.40	1
		4000	139	34.4	49.7	0.61	2
80-50-2	60/40	2500	25	21.1	19.0	0.23	0.5
		5000	77	17.2	31.1	0.38	1
80-50-3		2500	37	28.0	25.3	0.31	0.5
		5000	113	24.0	43.4	0.52	1
80-50-2	80/60	2500	25	36.8	33.3	0.41	1
		5000	77	26.9	48.6	0.59	2
80-50-3		2500	37	48.4	43.7	0.53	1
		5000	113	37.1	67.0	0.82	2
100-50-2	60/40	3000	23	24.8	26.9	0.32	1
		6000	72	18.4	40.0	0.48	2
100-50-3		3000	35	32.3	35.0	0.42	1
		6000	106	25.6	55.4	0.67	2
100-50-2	80/60	3000	23	38.4	41.6	0.51	2
		6000	72	28.2	61.1	0.75	4
100-50-3		3000	35	50.1	54.3	0.66	2
		6000	106	38.7	83.8	1.02	4

Data based on supply air temperature of 0 °C.



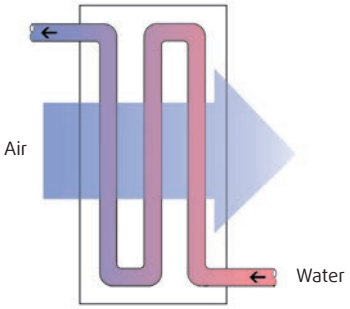
VBK



Water-heating battery for square ducts

The casing is manufactured from galvanized steel, the heat transmission elements are copper tubes with aluminium fins, and with copper pipes for connecting water inlet and outlet. If the VBK is to be used in very cold conditions it may be necessary to install a frost protection device.

The VBK is designed for horizontal mounting with the water connection to the right. For best results the air and water must be going through the battery in opposit directions. The water must be flowing upwards in order to facilitate airing of the battery. Software for determining the required dimensions for the desired output is available.



The air flow should be going in the opposite direction of the water.

VBK	Art. no.	□A	c/c	□D	no. of rows
45	6169	492	470	78	2
50	6160	547	520	78	2
55	6174	595	573	98	2
65	6179	707	680	98	2

Coil calculation

VBK	Water temp in/out	Air flow [m³/h]	Pressure drop [Pa]	DT [°C]	Capacity [kW]	Water flow [l/s]	Pressure drop [kPa]
45	60/40°C	1000	10	30.1	10.2	0.12	0.8
		2000	38	23	15.6	0.19	1.7
		2500	57	20.9	17.7	0.21	2.2
	80/60°C	1000	11	44.7	15.1	0.18	1.5
		2000	38	34.5	23.4	0.28	3.4
		2500	58	31.5	26.7	0.32	4.3
50	60/40°C	1200	10	31.5	12.8	0.15	1.4
		2400	35	24.2	19.7	0.23	3.1
		3000	53	22	22.4	0.27	3.9
	80/60°C	1200	10	46.1	18.8	0.22	2.6
		2400	36	35.8	29.1	0.35	5.8
		3000	54	32.7	33.3	0.40	7.4
55	60/40°C	2000	18	26.1	17.8	0.21	0.7
		4000	64	19.5	26.5	0.32	1.4
		5000	96	17.7	29.9	0.36	1.7
	80/60°C	2000	18	39.5	26.8	0.32	1.3
		4000	65	29.9	40.6	0.48	2.8
		5000	98	27.2	46.1	0.55	3.5
65	60/40°C	3600	27	24.6	30	0.36	1.5
		7200	99	18.2	44.5	0.53	3
		9000	150	16.5	50.2	0.60	3.7
	80/60°C	3600	28	36.8	49	54	2.8
		7200	101	27.7	67.6	0.81	5.9
		9000	152	25.1	76.5	0.91	7.3

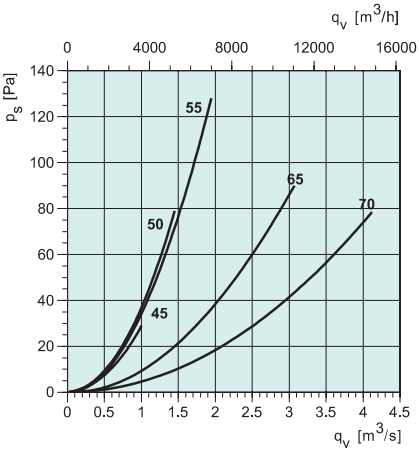
Data based on supply air temperature of 0 °C



LDK

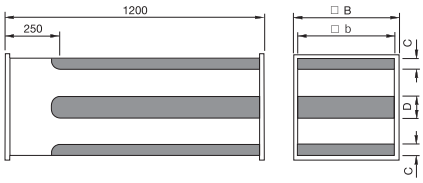
Noise suppression dB frequency band Hz							
LDK	125	250	500	1k	2k	4k	8k
45	5	8	13	12	8	7	7
50	7	8	13	12	9	8	7
55	9	9	13	12	10	9	8
65	6	7	14	13	9	8	7
70	5	7	19	24	23	15	10

Pressure drop

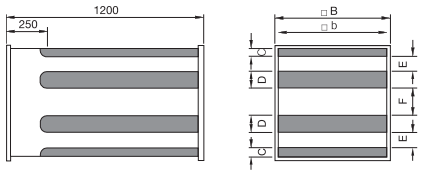


Silencer for square ducts

LDK is easily connected to our square duct fans type KDRE and KDRD.
Noise reduction can be determined by using the table provided.



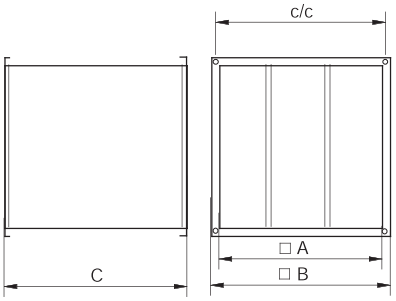
LDK	Art. no.	□b	□B	C	D
45	5114	450	490	50	100
50	5115	502	546	50	150
55	5116	550	594	50	200



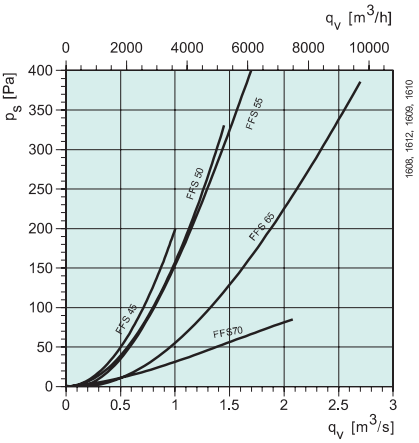
LDK	Art. no.	□b	□B	C	D	E	F
65	5117	661	703	50	100	93	175
70	5118	696	740	50	100	110	176



FFS



Pressure drop



Filter cassette for square ducts

Filter cassette with a bag filter standard type M5 included. The cassette is manufactured from galvanized steel with a hinged cover underneath and fitted with a quick-release latch for easy change of filter. It can be connected directly to the duct. Connections for a pressure sensor are standard. The recommended final pressure drop is 200 Pa.

FFS	Art. no.	□A	c/c	□B	C
45	5080	447	470	492	502
50	5081	502	520	547	532
55	5082	550	573	595	562
65	5083	661	680	707	642
70	5084	697	720	742	642

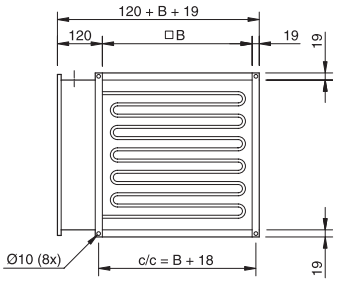
Filter cassette	Bag filter (incl. in FFS)	Filter media
FFS 45	BFS 45	M5
FFS 50	BFS 50	M5
FFS 55	BFS 55	M5
FFS 65	BFS 65	M5
FFS 70	BFS 70	M5

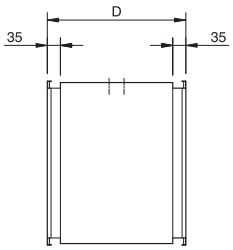


RBK

RBK	Art. no.	□B	D
45	5446	450	370
50	5447	500	370
55	5448	550	370
65	5449	660	370

RBK		45/17	50/21
Power	kW	17	21
Voltage	V	400	400
Phase	~	3	3
Current	A	24.5	30
Min. airflow	m³/h	570	910
RBK		**55/33**	**66/39**
Power	kW	33	39
Voltage	V	400	400
Phase	~	3	3
Current	A	48	56
Min. airflow	m³/h	890	1650





Electric duct heater for square ducts

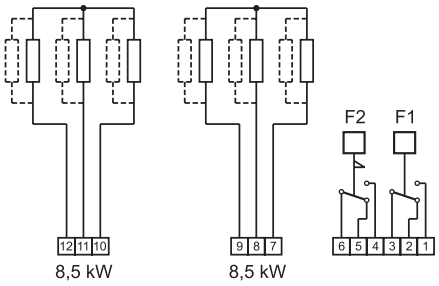
Casing manufactured from alu-zink coated sheet metal with heating elements in stainless steel. The heater has built-in overheating protection with manual reset. Heat control by means of a controller TTC together with a TT-Slave (TT-S1) or TTC together with a TT-M Slave. Min.airflow is based on a min.air velocity of 1.5 m/s. The duct heater is dimensioned for a maximum outgoing temp. of 40 °C.

Calculation of required power

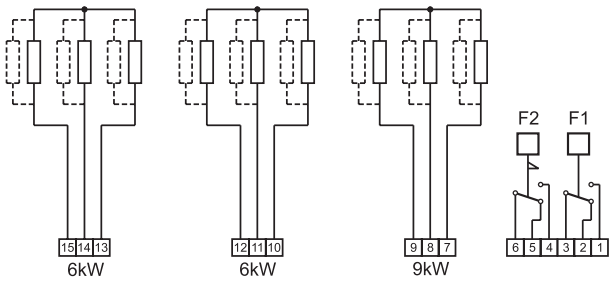
P = qv x air density x delta t

P = power (kW)
qv = air volume (m³/s)
air density = 1.2 kg/m³ at 20 °C
delta t= temperature difference

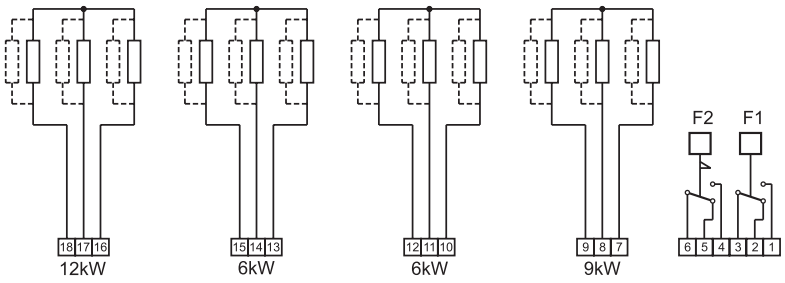
RBK-1 (18 kW, 400V 3~)



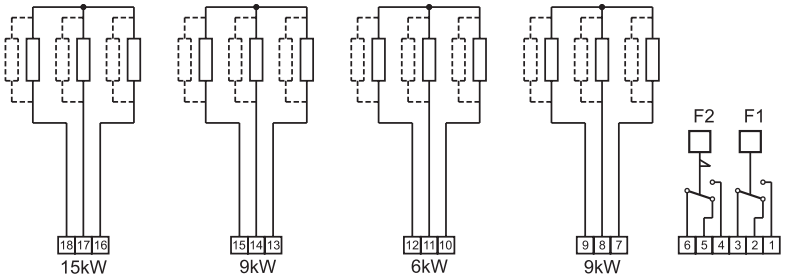
RBK-2 (21 kW, 400V 3~)



RBK-3 (33 kW, 400V 3~)



RBK-4 (39 kW 400V 3~)



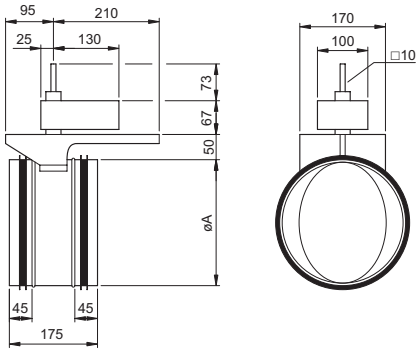
F1 = overheat protection, automatic reset (70 °C)
F2 = overheat protection, manual reset (120 °C)



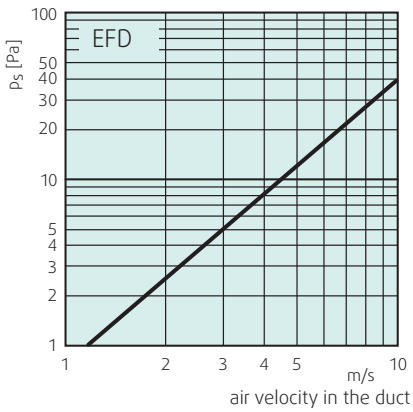
EFD

Single blade circular damper

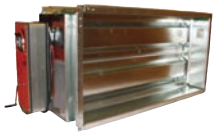
EFD is a shut-off damper, provided with 24V AC motors with spring-return actuators. Leakage performance class 3 according to EN 1751:1998 Annex C.2. The dampers have the function to prevent the hot water battery to freeze. The EFD consists of a tubular housing equipped with a damper blade pivoting on an axle. The connection ends are equipped with silicon rubber sealing rings. The damper is made from hot-dip galvanized sheet steel. The EFD turn off damper is prepared for external insulation and has arrows showing the damper blade position.
We recommend preventive maintenance of the damper twice per year for optimum performance. If the damper gets dirty, the blade should be cleaned. The gasket sealing should be checked and the blade axle lubricated as necessary.



Pressure drop



EFD	Art. no.	øA
200	203914	200
250	203915	250
315	204309	315
400	9859	400
500	4746	500
630	4747	630



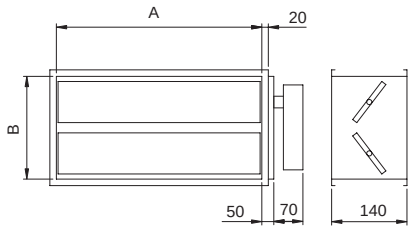
EFD

Opposed blade damper for rectangular ducts

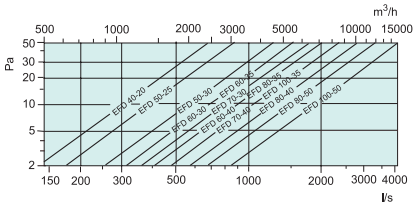
EFD is a shut-off damper. The damper is provided with a 24 V motor and with spring-return actuators. EFD is manufactured to leakage performance class 3 according to EN 1751:1998 Annex C.2. Outdoor/exhaust air damper has the function to prevent the hot water battery from freezing and also prevent the cold air from cooling down the building should the unit stop functioning.

The EFD multi-leaf damper comprises of a number of opposed blades, swivelling on nylon bearings in a sheet metal framework. The blades are connected via a system of linkages (protected) on the outside of the frame. Maximum air temperature is 100 °C.

EFD	Art. no.	A	B
40-20	6904	400	200
50-25	6905	500	250
50-30	7780	500	300
60-30	6906	600	300
60-40	6907	600	400
60-50	15551	600	500
70-30	6912	700	300
70-40	6908	700	400
80-35	6913	800	350
80-40	6909	800	400
80-50	9861	800	500
100-35	6914	1000	350



Pressure drop

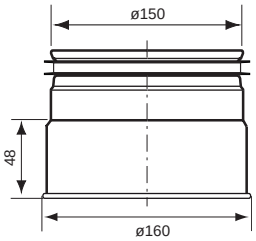




RED

Reducer

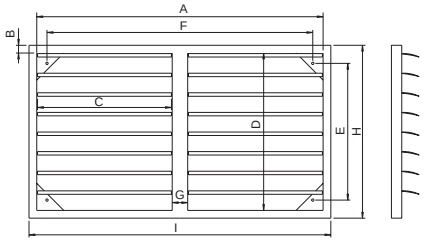
Pressed, concentric reducer with female coupling, with a 45° angle. This reducer is designed to meet demands for short installation lengths with low pressure drop and low internal noise generation.



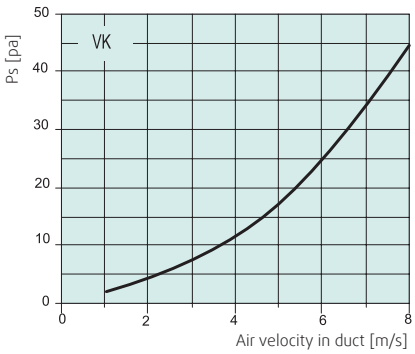
DN	Art. no.	Ød	Ød2	L	kg
100/80	12080	100	80	61	0.2
125/100	12081	125	100	64	0.3
160/100	12079	160	100	83	0.5
160/125	12078	160	125	71	0.4
160/150	6233	160	150	59	0.4
180/125	309621	180	125	85	0.4
180/160	309816	180	160	66	0.5
200/125	12082	200	125	90	0.6
200/160	12077	200	160	73	0.5
200/180	309817	200	180	63	0.6



VK



Pressure drop



Louvre shutter

Louvre shutters for vertical mounting on a wall. The profiled vanes produce a strong upward force which reduces the air resistance. This means that the vanes opens fully at low air velocities as well. All the parts are manufactured in weather-resistant and shockproof nylon material (PVC containing special synthetic). The robust construction ensures that the blades will not become deformed or loose. Air velocity should not exceed 12 m/s. The louvre shutters are easy to install. Wall plugs and screws are included.

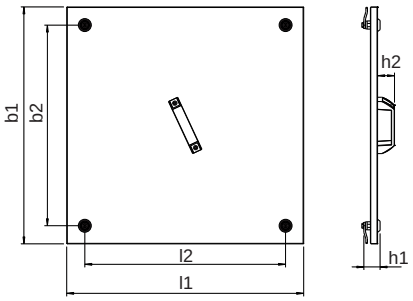
VK	Art. no.	A	B	C	D	E	F	G	H	I	J*
40-20	5644	455	15	452	255	215	415	-	285	485	44
50-25	5647	555	15	552	305	265	515	-	335	585	44
50-30	5648	555	15	552	355	315	515	-	385	585	44
60-30	5649	655	15	2x309	355	315	615	30	385	685	44
60-35	5650	655	15	2x309	405	365	615	30	435	685	44
70-40	5652	755	15	2x359	455	415	715	30	485	785	44
80-50	5655	846	15	2x405	555	515	806	30	585	876	44
100-50	5637	1146	15	2x560	555	506	1097	28	585	1176	42

*J = thickness of frame



SDM

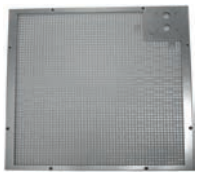
skin, with a 20 mm mineral wool insulation. Including four quicklocks, handle and key.



Service door

For Multibox (MUB) or thermo box (MUB-T). Manufactured from galvanized steel, double

SDM	Art. no.	l1	l2	b1	b2	h1	h2
025	32571	417	327	417	327	40	42
042	32572	587	497	587	497	40	42
062	32573	717	627	717	627	40	42

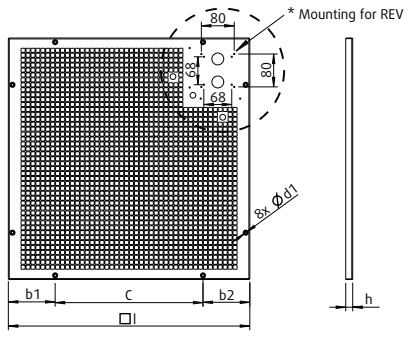


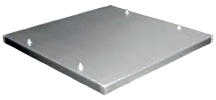
M-SG

Protection guard

Weather and protection guard M-SG for Multibox MUB/T size 025/042/062. Mounting at motor side. The guard is manufactured from galvanized steel. Includes reference points for REV ON-OFF isolator.

M-SG	Art. no.	b1	b2	C	I	h
025	311696	80	80	258	418	17
042	301345	114	114	360	588	17
062	301346	179	179	360	718	17



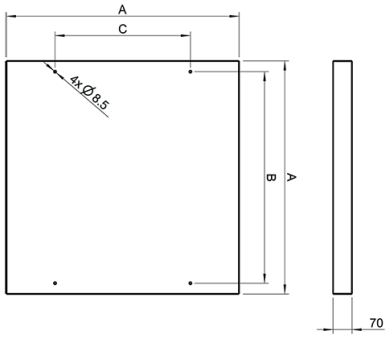


WSD

Weather protection for Multiboxes

Made of seawater resistant aluminum.
Edges are welded.
Inclusive mounting accessories!
We recommend to order the WSD factory mounted, because special tools are needed!

WSD	Art. no.	A	B	C
025	31480	560	480	260
042	31481	730	650	370
062	31482	860	780	500
100	31483	1060	980	700



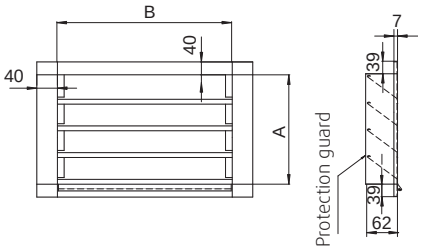


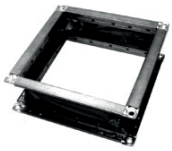
WSG

Weather protection guard for Multiboxes

Manufactured from galvanized steel. The protection guard includes a protection grille.
Suitable for MUB Multiboxes.

WSG	Art. no.	A	B
025	31485	418	418
042	31485	585	585
062	31486	715	715
100	31487	915	915



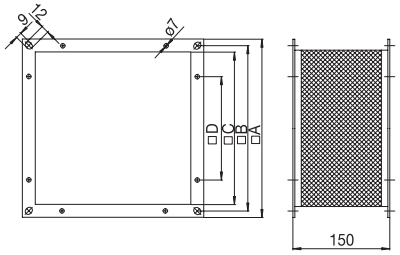


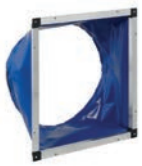
FGV

Flexible connection

Manufactured from aluminium with neoprene coated fabric. For temperature up to 60 °C. Flanges with drillings on both sides for mounting to the duct system.
Suitable for MUB.

FGV	Art. no.	A	B	C	D
025	4196	416	396	376	190
042	4605	586	566	546	350
062	4198	716	696	676	418
100	4199	918	896	876	400



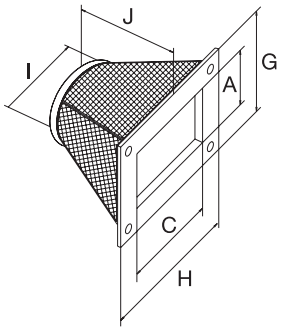


UGS

Flexible adapter, square to circular

Reduction from square to round. The frame is manufactured from aluminium and neoprene coated fabric. For temperature up to 60°C. The circular side has a locking ring for easy installation to the duct system.
Suitable for MUB and K.. airhandling units.

UGS	Art. no.	A/C	G/H	I	J
025/315	31290	378	418	315	210
025/355	4356	378	418	355	210
025/400	31291	378	418	400	210
042/355	32850	548	588	355	210
042/400	32851	548	588	400	210
042/500	4357	548	588	500	210
062/500	32852	678	718	500	210
062/630	4358	678	718	630	210





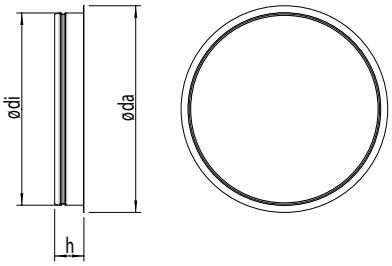
CCM

Inlet connection MUB

Reduction from square to round for easy connection of accessories on the inlet side. The CCM is manufactured from galvanized steel. The circular side has a double seal for easy installation to the duct system. This accessory should be pre-assembled ex factory to the selected fan.

Suitable for MUB 025/042/062 Multibox

CCM	Art. no.	ødi	øda	h	
315	312562	315	355	75	MUB025
355	312718	355	385	75	MUB042
400	311780	400	440	75	MUB042
500	311781	500	540	75	MUB042
560	311782	560	600	75	MUB062
630	311783	630	670	75	MUB062





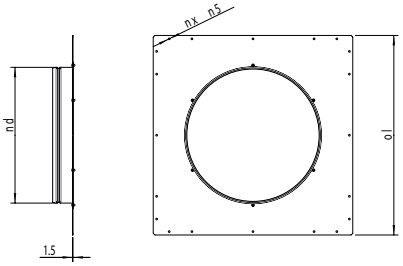
CCM

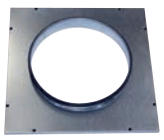
Circular connection, outlet MUB

Reduction from square to round for easy connection of accessories on the outlet side. The CCM is manufactured from galvanized steel. The circular side has a double seal for easy installation to the duct system.

Suitable for MUB 025/042/062 Multibox

CCM	Art. no.	ød	□l	
315	312535	315	418	MUB025
355	312719	355	418	MUB042
400	311682	400	588	MUB042
500	311683	500	588	MUB042
560	311684	560	718	MUB062
630	311681	630	718	MUB062





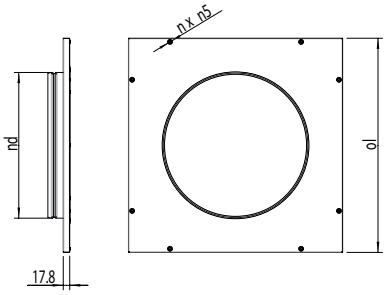
CCMI

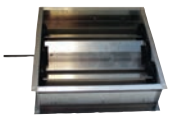
Circular connection insulated, outlet MUB

Reduction from square to round for easy connection of accessories on the outlet side. The CCMI double skin panel with 20mm mineral wool insulation is manufactured from galvanized steel. The circular side has double sealing for easy installation of the duct system.

Suitable for MUB 025/042/062 Multibox

CCMI	Art. no.	ød	øl	
315	313843	315	418	MUB025
355	313844	355	418	MUB042
400	313845	400	588	MUB042
500	313846	500	588	MUB042
560	313847	560	718	MUB062
630	313848	630	718	MUB062



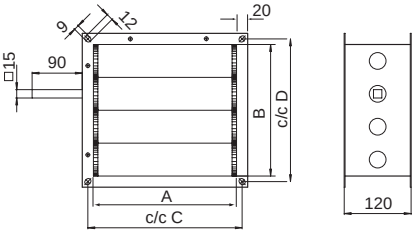


SRKG

Shutter for Multibox

SRKG is a cut-off shutter intended for use in ventilation systems. The shutter is designed with a number of blades which close towards each other, mounted in an aluminium frame. The blades are manufactured from aluminium.

SRKG	Art. no.	A	B	c/c C	c/c D
016	4260	548	236	568	256
025	4268	378	378	398	398
030	4265	678	236	698	256
042	4868	548	548	568	568
062	4870	678	678	698	698
100	4871	878	878	898	898





SD-MUB

Vibration pad

Vibration pads are elastic rubber elements.
They stop the transmission of vibrations.
A set consists four vibration pads.
They are designed for a weight of up to 560 kg

Art. no. 37324



ALS-KBT

Drain plug

Drain for liquids that accumulate in the casing. For KBR. Accessory to be ordered together with the fan, to be assembled in the factory.

Art. no. 2727



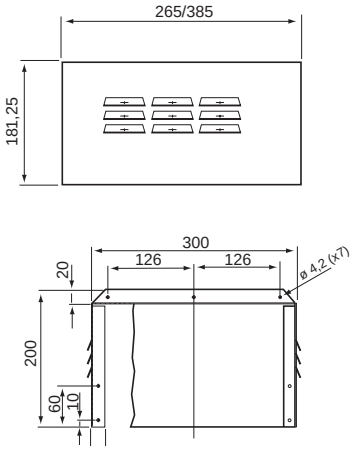
WSD-KBT

Weather roof for motor

Additional weather protection for the motor of thermo fans KBT and KBR, if mounted outside. Manufactured from seawater resistant aluminium.

WSD-KBT	Art. no.	A	Suitable for
1	2728	265	KBT* 160 - 180, KBR 315/355 4-pole
2	2729	385	KBT* 200 - 280, KBR 315/355 2-pole

* KBT comes with weather roof as standard



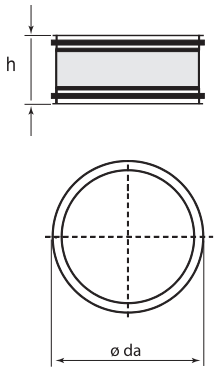


ASF/KB

Flexible connection

The ASF/KB is manufactured from galvanized steel, with neoprene coated fabric. It can be used for temperatures up to 120 °C. The ASF/KB has double sealing on each side.
Suitable for KBT/KBR.

ASF	Art. no.	øda	h
200/KB	2714	200	226
225/KB	2715	225	226
250/KB	2716	250	226
280/KB	2717	280	226
315/KB	2718	315	226
355/KB	2719	355	226





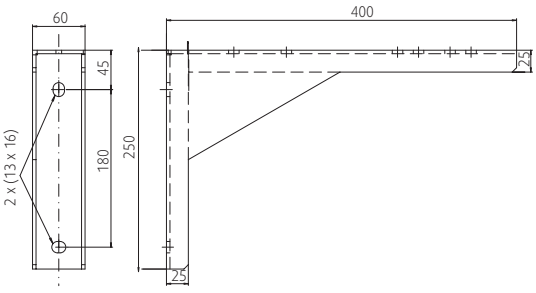
WBK

Wall mounting bracket

For mounting the KBT/KBR on walls. Manufactured from galvanized steel. The corners are welded. Available in pairs.
Suitable for KBT/KBR.

Art. no.:

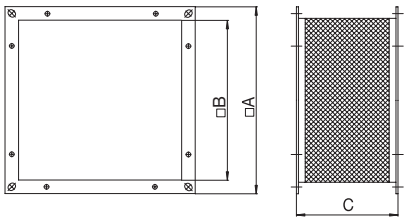
36185 (for KBT 160/180/200)
2720 (for KBT 225/250/280 and KBR280)
2721 (for KBR 315/355)





DSK

DSK	Art. no.	A	B	C
45	5100	492	447	120
50	5102	547	502	120
55	5103	595	550	120
65	5104	707	661	120
70	5105	742	696	120



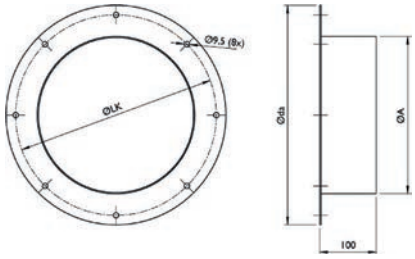
Flexible connections

Flexible connections for KDRE and KDRD. The connections to the fan are easily bolted to fan and duct.



UGF

UGF	Art. no.	ø A	ø da	ø LK
280	305492	279.5	390	356
315	305493	314.5	390	356
355	305494	354.5	428	395



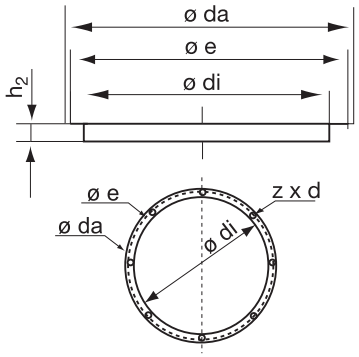
Counter flange

Counterflange for connection to a duct system. Manufactured from galvanized steel.



ASF

ASF	Art. no.	ø da	ø e	ø di	h2	z x d
190/225	9567	235	213	183	25	6 x ø8x12
310/311	9568	306	285	256	25	6 x ø10x14
355/500	9569	464	438	402	30	6 x ø10x14
560/630	9570	639	605	569	30	8 x ø10x14
710	9571	708	674	634	30	8 x ø14x10
800/900	9572	910	872	797	32	8 x ø14x10



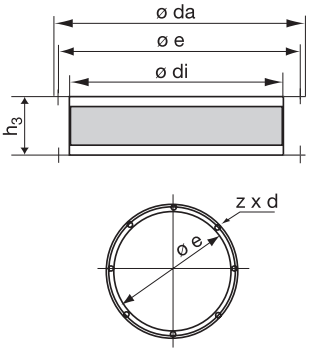
Inlet flange

Counterflange for connection to a duct system. Manufactured from galvanized steel. Suitable for DVS/DVSI, DHS, DVN/DVNI up to 120 °C.



ASS

ASS	Art. no.	øda	øe	ødi	h3	zxd
190/225	9573	235	213	183	155	6xø7
310/311	9575	306	285	256	155	6xø7
355-500	9576	464	438	402	155	6xø9
560/630	9577	639	605	569	155	8xø9
710	9578	710	674	634	155	8xø9
800/900	9579	910	872	797	155	8xø10



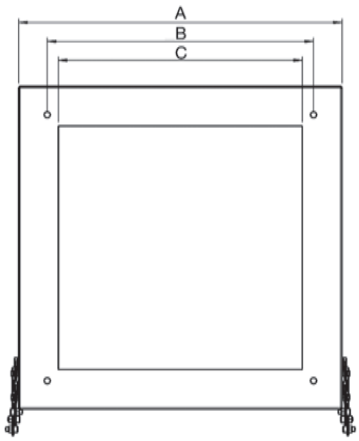
Flexible connection

Manufactured from galvanized sheet steel, with neoprene coated fabric. For temperature up to 70 °C. Suitable for DVS/DHS, DVSI, DVN, DVNI, DVC, DVCI, TFSK.



FTG

The open fan can be secured against unintended closing. The framework consists of galvanized steel and the hinges are made of stainless steel. For the connection of inlet accessories the adapter framework TDA is needed, which has to be ordered separately. The delivery includes mounting material. The tilting device is available for the sizes 310 up to 630.



Tilting device for roof fans

The tilting device FTG is an accessory for roof fans DVS/DVSI/DVC/DHS/DVN and DVG/120°C. With the tilting device FTG the roof fan is easy to open for service options.

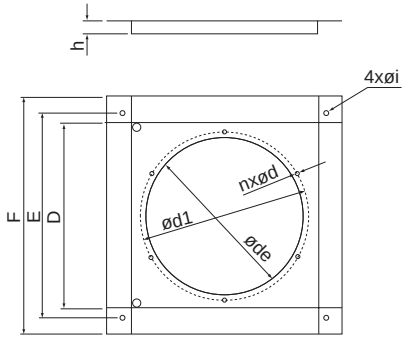
FTG	Art.no.	A	B	C	for size
400	30507	420	330	304	310/311/315
540	30508	580	450	466	355/400
640	30248	650	535	490	450/499/500
940	30509	924	750	654	560/630



TDA DV

TDA DV	Art. no.	D	E	F	h
190/225	309416	226	245	294	19
310/311	301392	300	330	373	19
355/400	301393	450	464	543	20
450/500	301394	486	535	619	35
560/630	304815	650	750	793	15

TDA DV	Art. no.	øi	nxød	øde	ød1
190/225	309416	10	6x6.5	183	213
310/311	301392	10	6x6.5	256	285
355/400	301393	12	6x9	405	438
450/500	301394	12	6x9	405	438
560/630	304815	14	8x9	570	605



Adapter

Adapter frame for mounting of accessories when using of FTG tilting device. Adapter frame TDA for mounting into roof socket. Manufactured from galvanized steel.



ASK, ASK/F, ASG/F

ASK	Art. no.	A	øD	øE	øF	øG	H	I	K	L
225	300902	290	213	183	6xø7	4xø7	272	114	-	110
310/311	300904	385	285	256	6xd7	4xd9	366	152	-	110
315 TFSK	309229	474	285	256	6xø8	4xø9	449	179	-	110
355/400	300905	551	438	402	6xø9	4xø9	526	214	-	110
450/500	300907	621	438	402	6xø9	4xø9	596	241	-	110
560/630	300908	891	605	569	8xø9	4xø9	866	471	235.5	110
710	300910	981	674	634	8xø9	6xø9	956	508	254	110

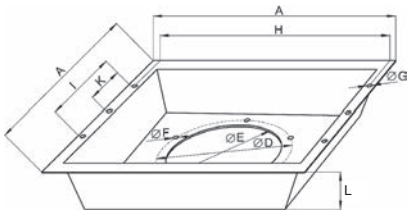
Connection box

ASK, ASK/F and ASG/F for mounted on socket silencers to fix inlet accessories or ducts.
ASK made of seawater resistant aluminium. For DVS/DHS, DVSI, DVNI, DVN, DVC.

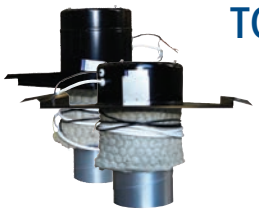
ASK/F made of aluzinc steel. For DVV and DVV/F.

ASG/F made of aluzinc steel. For DVG.

ASK/F	Art. no.	A	øD	øE	øF	øG	H	I	K	L
400	305203	522	356	322	8xM8	10	496	250	125	200
450	305204	672	395	360	8xM8	10	646	320	160	250
560	305205	672	438	404	12xM8	10	646	320	160	250
630	305206	962	541	507	12xM8	10	936	640	160	300
800	305207	962	674	636	16xM10	10	936	640	160	350
1000	305208	1105	751	713	16xM10	10	1079	720	180	350



ASG/F	Art. no.	A	øD	øE	øF	øG	H	I	K	L
315-355	309948	545	438	402	6xM8	4xø9	526	214	-	200
400-450	309949	615	438	402	6xM8	4xø9	596	241	-	200
500-560	309950	885	605	569	6xM8	6xø9	866	471	235.5	250
630	309951	975	674	634	6xM8	6xø9	956	508	254	300
800	95215	1205	872	800	8xM8	6xø9	1174	600	300	300



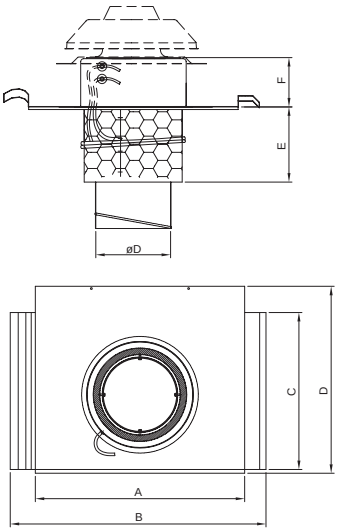
TOB

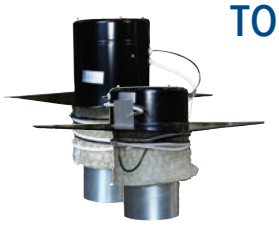
Profiled roof covering plate

This covering plate is shaped like a roof tile so that it can be fitted on to a standard double-lap concrete roof tile (type TOB 125-160) or on to two single-lap roof tiles (TOB 200-315). It is fitted at right angles to the roof cladding and can therefore be used on different roof pitches.
The covering plate is manufactured from powder-coated galvanized sheet steel. Available in the standard colours, black, brick red and also uncoated. The spiral duct connected to the cover is insulated with 30 mm mineral wool. The roof fan TFSR is fastened to the profiling plate with 4 screws, these screws are included in TOB.
3 m cable is included, as well as the TUB under-plate which is fitted on to the inside of the roof. This under-plate prevents water-damage via the roof aperture if there is leakage on the outside of the roof.
The underplate should not be used if the roof is only covered with roofing felt.

TOB	Art. no.	A	B	C	D
125-160	1411	260	375	–	448
200-315	1450	560	684	430	500

TOB	Art. no.	E	F	øD
125-160	1411	323	230	160
200-315	1450	326	138	200



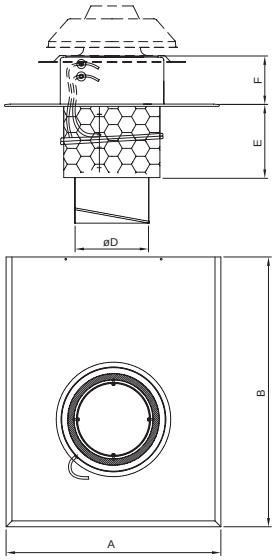


TOS

Flat roof covering plate

The covering plate is fitted at right angles to the roof cladding and can therefore be used on different roof pitches.
The covering plate is manufactured from powder-coated galvanized sheet steel, available in the standard colours of black, brick red and also uncoated. The spiral duct connected to the cover is insulated with 30 mm mineral wool. The roof fan TFSR is fastened to the profiling plate with 4 screws, these screws are included in TOS.
3 m cable is included, as well as the TUS under-plate which is fitted on to the inside of the roof. This under-plate prevents water-damage via the roof aperture if there is leakage on the outside of the roof. The underplate should not be used if the roof is only covered with roofing felt.

TOS	Art. no.	A	B	E	F	øD
125-160	1533	455	480	323	230	160
200-315	1658	585	735	326	138	200





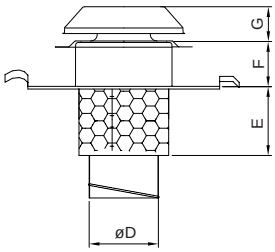
THB

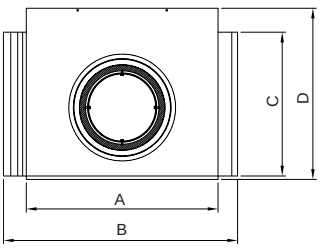
Profiled roof cowl

This cowl is shaped so as to fit over a standard double-lap concrete roof tile (THB 160), or over two tiles (THB 200). The cowl is fitted at right angles to the roof cladding and can therefore be used on different roof pitches.
Manufactured from powder-coated, galvanized sheet steel, in the standard colours of black and brick red. The spiral pipe connected to the cover is insulated with 30 mm rockwool matting. The TUB under-plate, for fitting inside the roof, is included. This under-plate prevents water-damage via the roof aperture if there is leakage on the outside of the roof. The under-plate should not be used if the roof is only covered with roofing felt.

THB	Art. no.	A	B	C	D
160	1764	260	375	448	448
200	1767	560	684	430	500

THB	Art. no.	E	F	G	øD
160	1764	323	230	72	160
200	1767	326	138	76	200





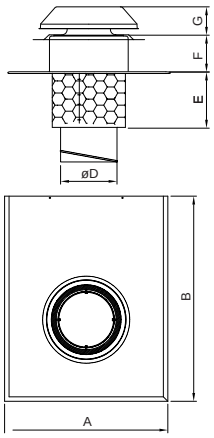


THS

Flat roof cowl

The cowl is fitted at right angles to the roof cladding and can therefore be used on different roof pitches. Manufactured from powder-coated, galvanized sheet steel, in the standard colours of black and brick red. The spiral pipe connected to the cover is insulated with 30 mm rockwool. The TUS under-plate, for fitting inside the roof, is included. This underplate prevents water-damage via the roof aperture if there is leakage on the outside of the roof. The under-plate should not be used if the roof is only covered with roofing felt.

THS	Art. no.	A	B	E	F	G	øD
160	1839	455	480	323	230	72	160
200	1848	585	735	326	138	76	200





TUB/TUS

Roof sealing plate for TOB or TOS.



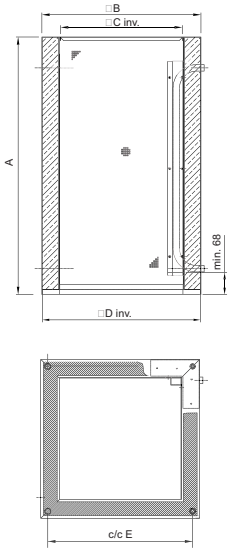
TG 300-800, 400-800

Roof curb

The brackets make it easy to fit the roof curb to the roof pitch. TG also has a silencer function. Manufactured from galvanized steel and insulated with a 50 mm mineral wool and a perforated inner plate.
The roof curb is fitted with plastic piping and conduits for electric cables.
Weight 24 kg.

TG	Art. no.	A	B	C	D	E
300-800	5924	800	293	183	289	245
400-800	1718	800	393	283	389	330

Dimensions of roof opening: B+10 mm

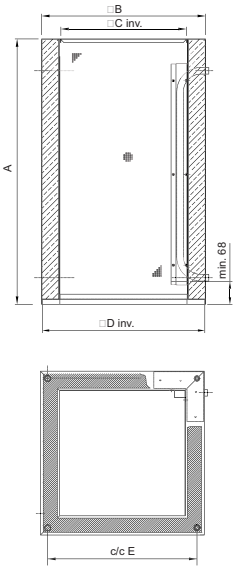




TG

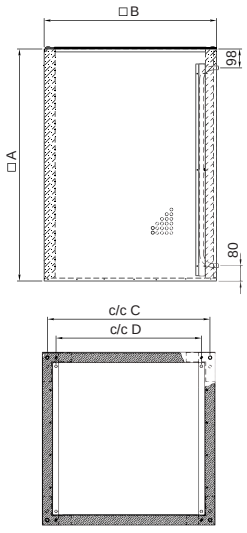
Roof curb

The brackets make it easy to fit the roof curb to the roof pitch, and also function as a silencer. Manufactured from galvanized steel and insulated with 50 mm mineral wool and a perforated inner plate.
The roof curb is fitted with plastic piping and conduits for electric cables.
A roof curb with 100 mm insulation (corresponding to A60 insulation) is available on request.



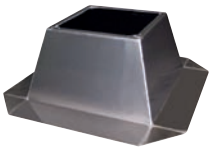
TG	Art. no.	A	B	C	D	E
540-800	1727	800	494	378	490	450
640-800	1729	800	594	478	590	535
540-1230	1726	1230	494	378	490	450
640-1230	1728	1230	594	478	590	535
1140-800	5085	800	1094	-	1040	-

Dimensions of roof opening: B+10 mm



TG	Art. no.	A	B	C	D
740-1200	5088	1200	694	655	590
940-1200	5090	1200	894	840	750

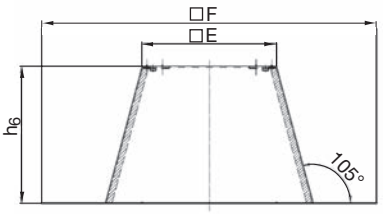
Dimensions of roof opening: B + 10 mm

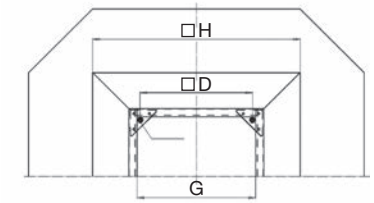


FDS

FDS	Art. no.	D	E	F	G
190/225	9548	245	294	720	264
310/311	9549	330	395	810	359
315M/L	30010	450	478.5	898	431
355/400	9550	450	554	977	505
450/499/500	9551	535	625	997	577
560/630	9552	750	895	1350	847
710	9553	840	985	1450	937
800/900	9554	1050	1205	1600	1157

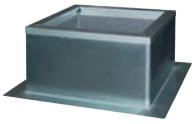
FDS	Art. no.	H	M	h6
190/225	9548	452	M6	300
310/311	9549	553	M6	300
315M/L	30010	639	M10	300
355/400	9550	714	M10	300
450/499/500	9551	783	M10	300
560/630	9552	1055	M10	300
710	9553	1143	M10	300
800/900	9554	1363	M12	300





Flat roof socket

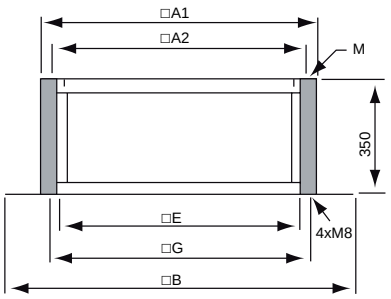
FDS is manufactured from seawater resistant aluminium and is supplied ready for assembly with insulation up to 100 °C. Suitable for DVS/DHS, DVSI, DVN, DVNI, DVC, DVEX. Supplied with washers and screws.



FDV

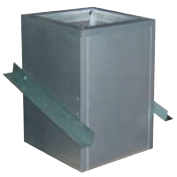
FDV	Art. no.	A1	A2	B
400	3687	535	460	720
450	3693	685	600	870
560	3688	685	600	870
630	3689	975	880	1160
800	3690	975	880	1160
1000	3691	1120	1040	1400

FDV	Art. no.	M	E	G
400	3687	12	444	496
450	3693	12	594	646
560	3688	12	594	646
630	3689	16	879	936
800	3690	16	879	936
1000	3691	16	1023	1079



Flat roof socket

The flat roof socket FDV is manufactured from aluzinc steel supplied with 40 mm mineral wool insulation with coated fabric. The insulation of FDV/F and FDV-EX is secured with an additional metallic guard. The sealing between fan and socket is provided.

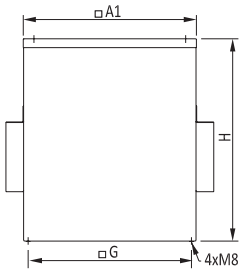


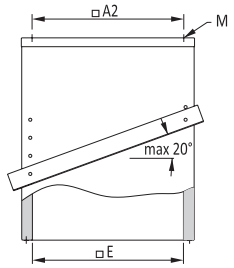
FDVE, FDVE/F

additional metallic guard. The sealing between fan and socket is provided. Profiles adjustable up to 20°, to be adjusted to inclination of the roof at site.

FDVE	Art. no.	A1	A2	E	G	H	M
400	3675	535	460	447	496	750	12
450/560	3676	685	600	597	646	800	12
630/800	3678	975	880	884	936	900	16
1000	3680	1120	1040	1029	1079	950	16

FDVE/F	Art. no.	A1	A2	E	G	H	M
400	3681	535	460	447	496	750	12
450/560	3682	685	600	597	646	800	12
630/800	3685	975	880	884	936	900	16
1000	3686	1120	1040	1029	1079	950	16





Roof socket for DVV/120, DVV/F

Flat or inclined roof socket up to 20° inclination. Manufactured from aluzinc steel, supplied with 40 mm mineral wool insulation with coated fabric. The insulation of FDVE/F and FDVE-EX is secured with an

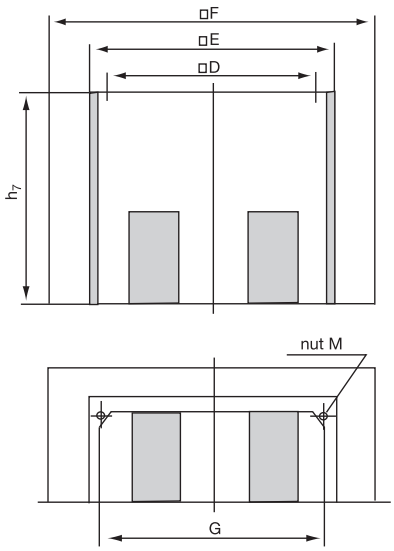


SSD

SSD	Art. no.	D	E	F	G
190/225 *	9560	245	297	571	258
310/311 **	9561	330	398	710	345
315M/L ***	30086	450	478	797	434
355/400	9562	450	562	874	472
450/499/500	9563	535	628	900	538
560/630	9564	750	898	1200	808
710	9565	840	985	1300	898
800	9566	1040	1212	1540	1118

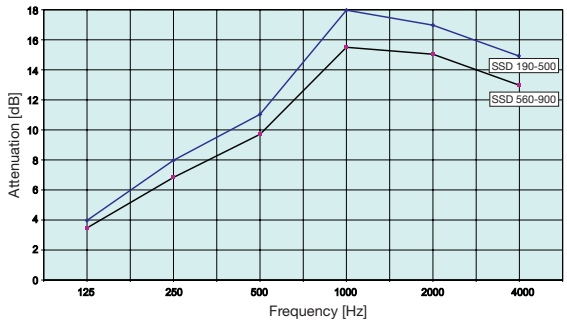
SSD	Art. no.	nut M	h7	Pressure drop no.
190/225	9560	M6	400	1
310/311	9561	M6	500	2
315M/L	30086	M10	650	3
355/400	9562	M10	650	3
450/499/500	9563	M10	650	4
560/630	9564	M10	700	5
710	9565	M10	800	6
800	9566	M12	1000	7

* also suitable for TFSK 125 M/L
** also suitable for TFSK 160 and 200
*** suitable only for TFSK 315 M/L

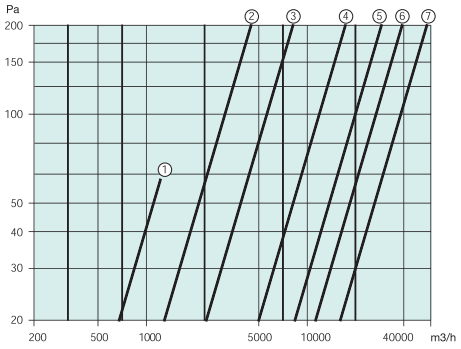


Roof socket silencer

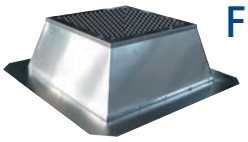
Socket silencer for sound reduction at the inlet side. The sound absorption at 250 Hz is on average 8 dB. The SSD is manufactured from seawater resistant aluminium. The sound absorbing material is abrasion resistant up to a velocity of 20 m/s. The baffles can be taken out for maintenance works.Suitable for DVS/DHS, DVSI, DVN, DVNI, DVC, TFSK and DVEX.



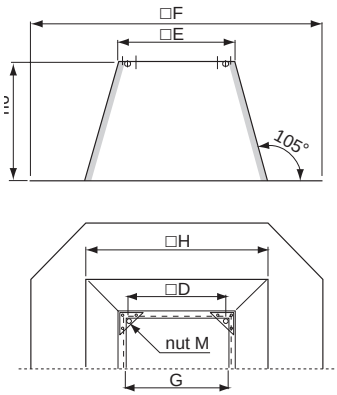
Pressure drop



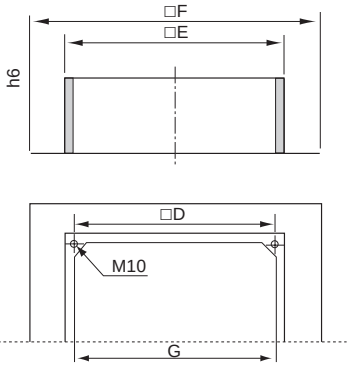
FDG/F



Size 315-450



Size 500-800

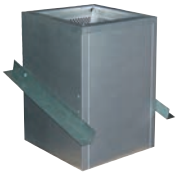


Flat roof socket

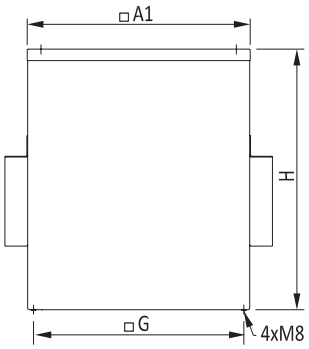
Flat roof socket FDG/F is made of aluzinc steel supplied with 40 mm mineral wool insulation with coated fabric. For use up to 400 °C medium temperature. Inclusive sealing between fan and socket.

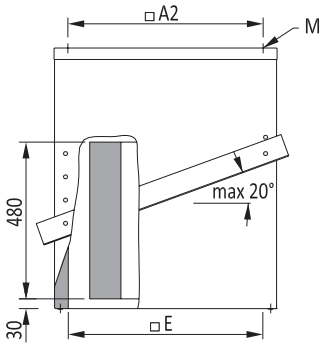
Suitable for DVG-H, DVG-V, sizes 630 and 800 also for DVV-XS/XL.

FDG/F	Art. no.	D	E	F	G	H	nut M	h6
315-355	309940	450	562	980	472	713	M10	300
400-450	309941	535	628	980	538	783	M10	300
500-560	309942	750	898	1200	808	–	M10	300
630	309943	840	990	1300	898	–	M10	300
800	95211	1050	1210	1540	1120	-	M12	300



SSVE, SSVE/F





Roof socket silencer for DVV/120, DVV/F

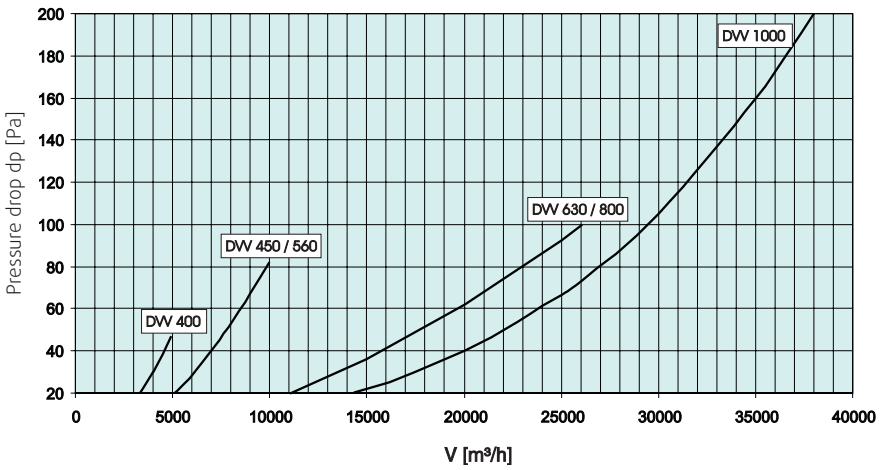
The socket silencers are suitable for pitched roof constructions up to a max. angle of 20°. Angle can be adjusted on the silencer. Casing manufactured from aluzinc steel, insulation/baffles of mineral wool with a textile lining. For versions .../F (smoke extract) and EX the baffles are secured with an additional metallic guard. The surface of the baffles is abrasion resistant. Silencers come complete with nuts at the bottom to fix further inlet-side accessories. Supplied with sealing between socket and fan.

Attention! Automatic shutters VKVE/F, VKV/F can only be installed into the L-version silencer (on request).

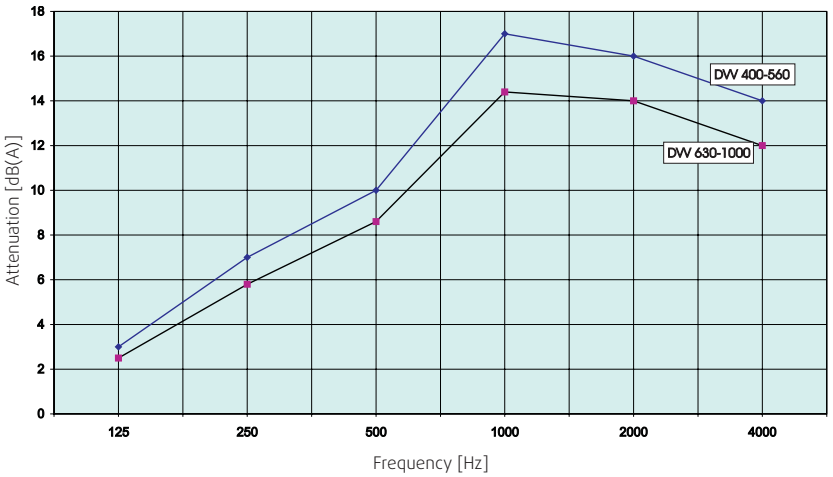
SSVE	Art. no.	□A1	□A2	M	□E	□G	H	kg
400	3769	535	460	12	447	496	750	35
450/560	3770	685	600	12	597	646	800	48
630/800	3772	975	880	16	884	936	900	90
1000	3774	1120	1040	16	1029	1079	950	111

SSVE/F	Art. no..	□A1	□A2	M	□E	□G	H	kg
400	4410	535	460	12	447	496	750	43
450/560	4411	685	600	12	597	646	800	59
630/800	4413	975	880	16	884	936	900	108
1000	4415	1120	1040	16	1029	1079	950	133

Pressure drop

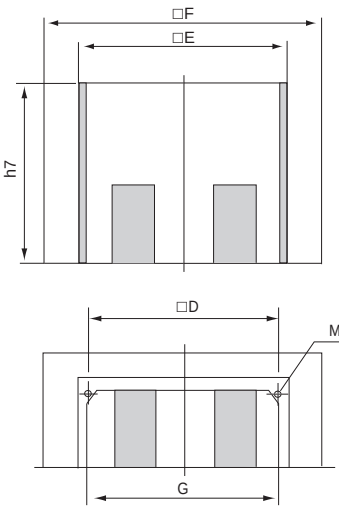


Attenuation





SSG/F

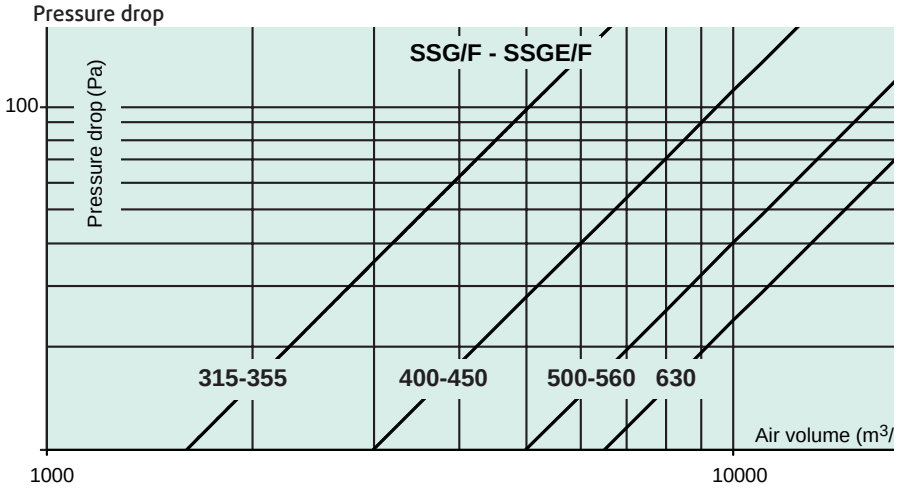


Roof socket silencer for DVG

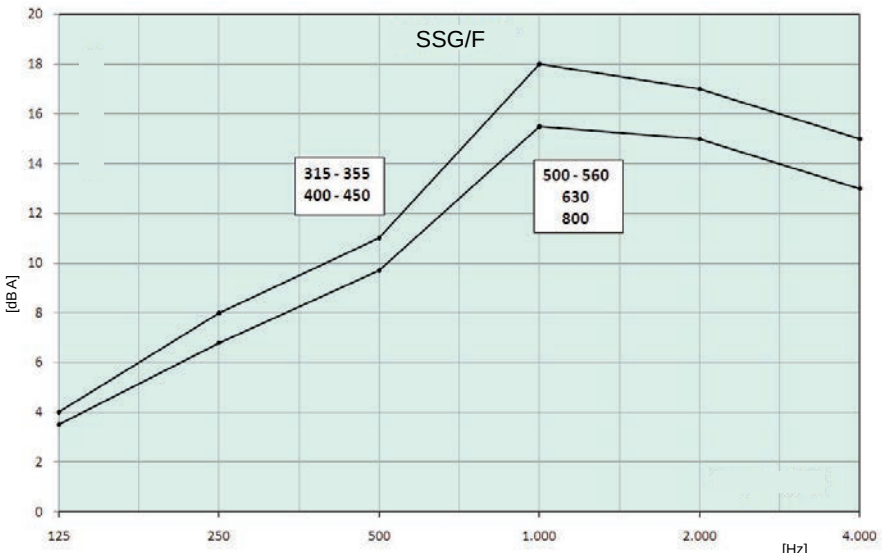
The socket silencers SSG/F are suitable for mounting on flat roofs. Casing made from aluzinc steel, insulation/baffles of mineral wool with textile lining. 40 mm insulation, in .../F version with additional metallic protection guard. Silencers come complete with nuts at the bottom to fix further inlet side accessories. Supplied with appropriate sealing between socket and fan. Suitable for DVG-H, DVG-V fans, sizes 630 and 800/1000 also for DVV-XS/XL 120° respectively DVV/F-XS/XL fans.

SSG/F	Art. no.	D	E	F	G	M	h7	kg
315/355	309944	450	555	874	472	M10	650	41
400/450	309945	535	625	900	538	M10	650	46
500/560	309946	750	895	1200	808	M10	700	72
630	309947	840	985	1300	898	M10	800	90
800	95217	1050	1210	1540	1120	M12	1010	115

Pressure drop

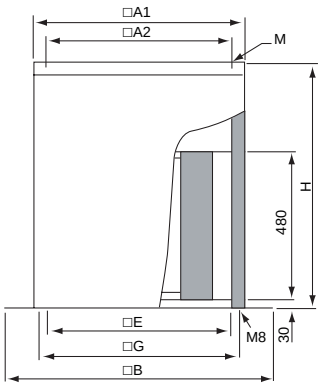


Attenuation





SSV, SSV/F



Socket silencer for DVV/120, DVV/F

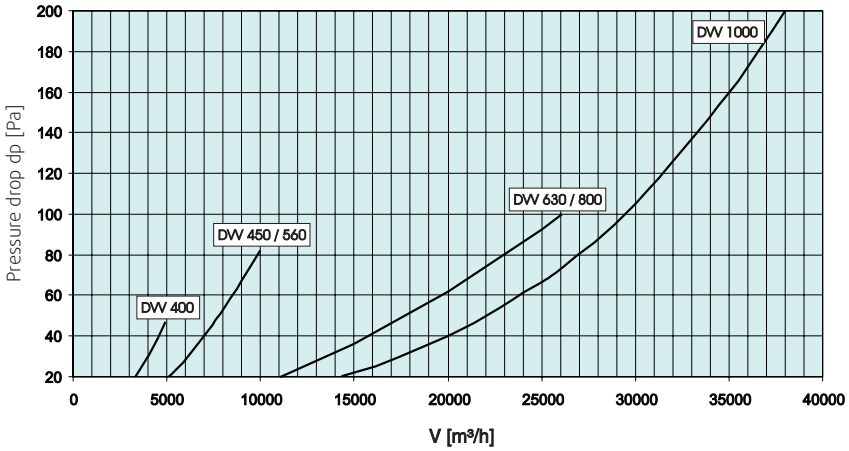
The socket silencers are suitable for mounting on flat roofs. Casing manufactured from aluzinc steel, insulation/baffles of mineral wool with a textile lining. For versions .../F (smoke extract) and EX the baffles are secured with an additional metallic guard. The surface of the baffles is abrasion resistant. Silencers come complete with nuts at the bottom to fix further inlet-side accessories. Supplied with sealing between socket and fan.

Attention! Automatic shutters VKVE/F, VKV/F cannot be installed into the silencer.

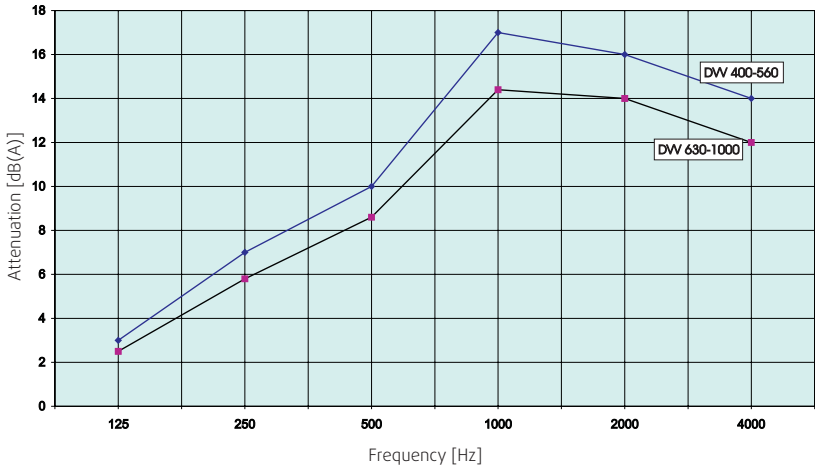
SSV	Art. no.	□A1	□A2	□B	M	H	□E	□G	kg
400	3728	535	460	720	12	750	444	496	35
450	3729	685	600	870	12	800	594	646	48
560	3730	685	600	870	12	800	594	646	48
630	3731	975	880	1160	16	900	879	936	95
800	3732	975	880	1160	16	900	879	936	95
1000	4423	1120	1040	1400	16	950	1023	1079	123

SSV/F	Art. no.	□A1	□A2	□B	M	H	□E	□G	kg
400	4424	535	460	720	12	750	444	496	39
450	4425	685	600	870	12	800	594	646	55
560	4426	685	600	870	12	800	594	646	55
630	4427	975	880	1160	16	900	879	936	107
800	4428	975	880	1160	16	900	879	936	107
1000	4429	1120	1040	1400	16	950	1023	1079	136

Pressure drop



Attenuation

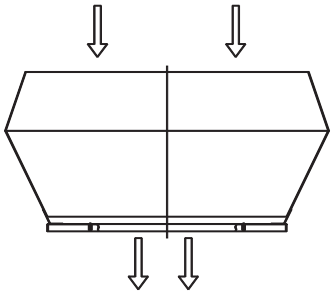


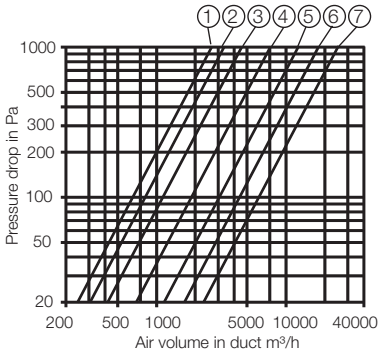


LGV/LGH

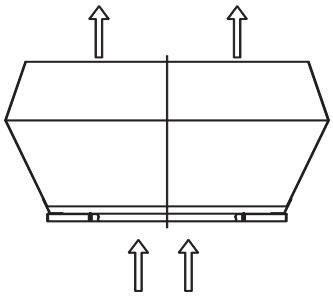
Roof cowl

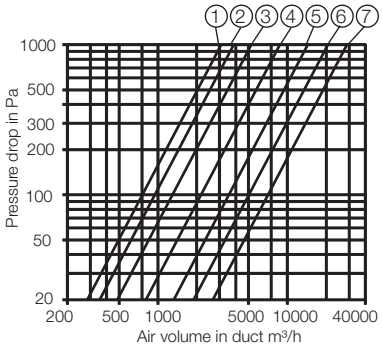
The roof cowl LGV/LGH as supply or exhaust cowl. Empty (no motor impeller) casing of model DVS/DHS/DVN roof fans. Dimensions are equivalent to the size of the roof fans.



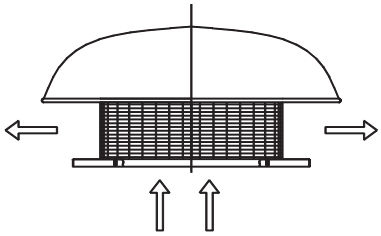


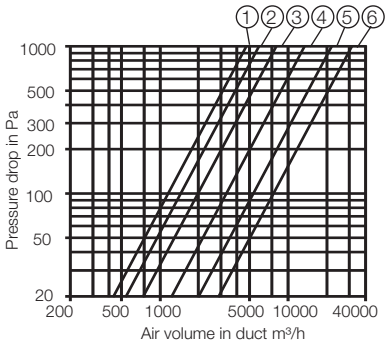
LGV	Art. no.	Pressure drop characteristic curve no.
190/225	8505	1
310/311	8506	2
355/400	8507	3
450/499/500	8508	4
560/630	8509	5
710	8510	6
800/900	8783	7

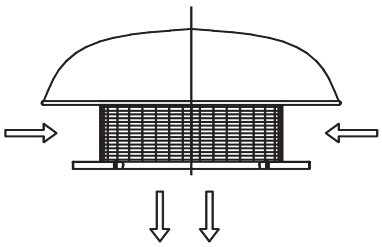


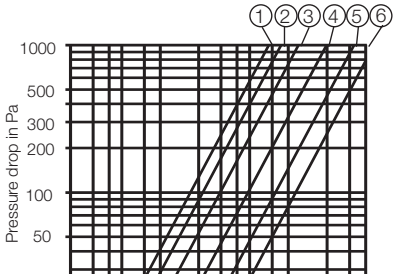


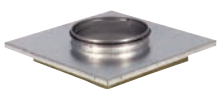
LGH	Art. no.	Pressure drop characteristic curve no.
190/225	8511	1
310/311	8512	2
355/400	8513	3
450/499/500	8514	4
560/630	8515	5
710	8516	6









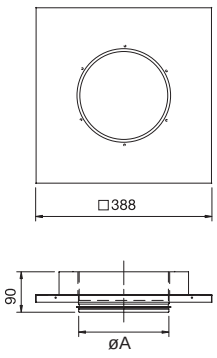


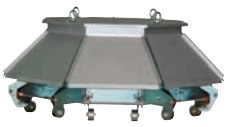
STG

Roof base plate

Accessory for the TG 400-800. Adapter for connection with ø125, 160 and 200 mm.

STG	øA
125	125
160	160
200	200

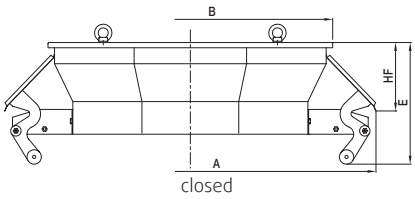




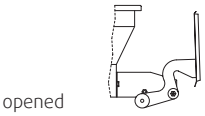
FSL

- Tested according to EN 12101-3 at TU Munich for temperatures up to 600 °C/ 120 min.
- Recommended to order factory mounted on the fan (saving place for transportation, saving time and costs for mounting on site).
- They can also be mounted after installation of the fan

FSL flaps for DVV-XS, XL, XM, XP/F400 can be mounted on the fan fitted with outlet silencer HSDV, too.



closed


opened

* HF corresponds to the additional height of DVV when FSL is mounted

Flaps for snow load, DVV roof unit

Smoke and heat extract unit DVV with FSL flaps as accessories has the same rating as the basic unit, but snow load rating SL 1000. DVV with FSL flaps is suitable for installation on non heated buildings with snow load requirement SL 1000.

- SL 1000 according to EN 12101-3
- F400 (400 °C/120 min.) or F600 (600 °C /120 min.), depends on basic DVV fan
- Up to 120 °C continuous operation
- Flaps made from hot-dip galvanized steel
- Vertical exhaust

FSL	Art. no.	Suitable for DVV/F400, F600
450	33084	DVV 450
560-XL	95415	DVV 560
630-XS/XL	95348	DVV 630
800-XS/XL	95350	DVV 800
1000-XL/XM/XP	95353	DVV 1000

FSL	A	B	HF*	E	kg
450	800	550	210	305	26
560-XL	800	550	235	305	27
630-XS/XL	985	622	270	413	41
800-XS/XL	1277	812	351	544	61
1000-XL/ XM/XP	1390	913	327	535	69

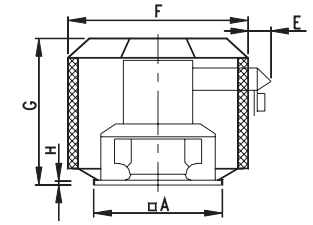


HSDV

Attenuation 7 to 8 dBA.

HSDV	Art. no.	Suitable for DVV/F400, F600; DVV-EX
400	95077	DVV 400
450	95078	DVV 450
560-XL	95355	DVV 560
630-XS/XL	95354	DVV 630
800-XS/XL	95357	DVV 800
1000-XL/XM/XP	95358	DVV 1000

HSDV	A	E	F	G	m kg	m1 kg
400	573	200	732	730	18	14
450	723	220	908	830	25	19
560-XL	939	220	1055	990	43	32
630-XS/XL	1035	175	1247	964	55	41
800-XS/XL	1251	230	1490	1105	72	53
1000-XL/ XM/XP	1251	245	1660	1490	114	87

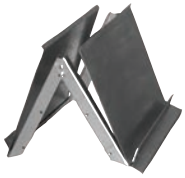


Note 1: m (kg) - weight of HSDV alone, without fan.
Note 2: m1 (kg) - additional weight of fan, when HSDV mounted instead of original casing.
Note 3: E for 1000-P 4 pole only (2 cooling ducts).*
*Note 4: E** for DVV 400 - 630 (cooling duct 45° to axis).*
Note 5: FSL snow load flaps for HSDV resp. DVVI on request.
Note 6: DVVI-Ex without cooling ducts, connection box on casing.

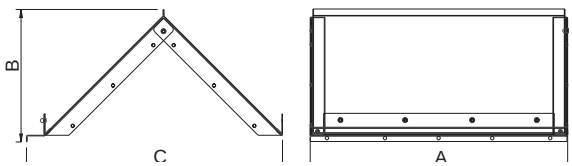
Silencer for DVV roof unit

Octagonal casing from AlMg3, built as silencer to outlet, vertical exhaust.

Suitable for DVV-XS, XM, XL, XP/F400, F600, 120, EX. Certified together with DVV/F400 and F600 according to EN 12101-3. Insulation of 80 mm mineral wool with glass mat, perforated steel sheet for protection of insulation. Recommended to order together with DVV fan. DVV-XS, XL, XM, XP/F400, F600 with HSDV can be equipped with FSL snow load flaps, too. HSDV can be retrofit.



BTG



BTG	Art. Nr.	A	B	C
300	6502	178	178	92
400	5092	281	281	130
540	5093	383	383	200
640	5094	483	483	250
740	5095	582	582	300
940	5096	780	780	400

Back draft damper

Back draft damper designed for the TG 300-800, TG 400-500, TG 400-800 and TG roof curbs, which can be fitted as long as the roof curb is installed vertically. The frame and damper vanes are manufactured from galvanized steel. The frame is screwed or riveted on to the roof curb's perforated inner casing.



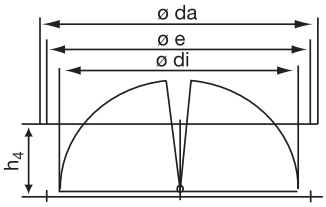
VKS, VKM, VKS-EX, VKSV-EX

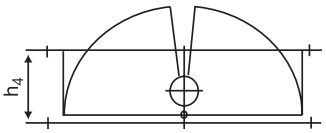
VKS	Art. no.	øda	øe	ødi	h4	zxd
190/225	9539	235	217	183	115	6x8x12
310/311	9543	306	286	255	156	6xø10
355-500	9544	464	438	406	220	6xø10
560/630	9545	639	605	573	255	8xø10
710	9546	708	674	638.5	250	8xø10

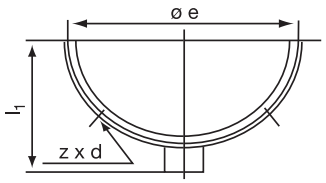
VKM	Art. no.	øda	øe	ødi	h4	l1	zxd
310/311	9555	306	286	255	156	210	6xø10
355-500	9556	464	438	406	220	290	6xø10
560/630	9557	639	605	573	255	375	8xø10
710	9558	708	674	638.5	250	400	8xø10

VKS-EX	Art. no.	øda	øe	ødi	h4	zxd
310/311	8483	306	285	256	156	6xø7
355-500	8484	464	438	402	220	6xø9
560/630	4813	639	605	569	255	8xø9

VKSV-EX	Art. no.	øda	øe	ødi	h4	zxd
630	4803	584	541	504.5	255	12xø12
800	4804	708	674	638	255	16xø12
1000	4805	814	751	711.5	350	16xø12



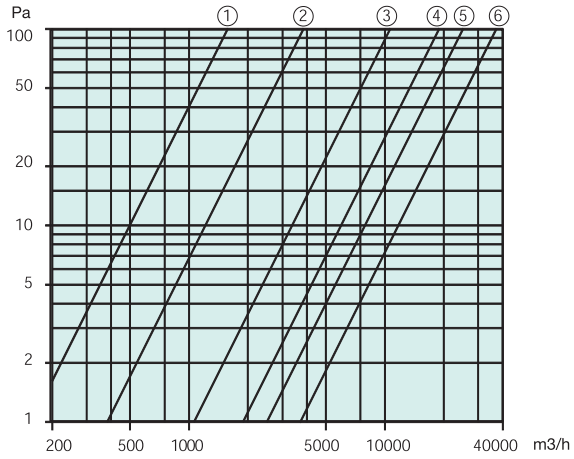




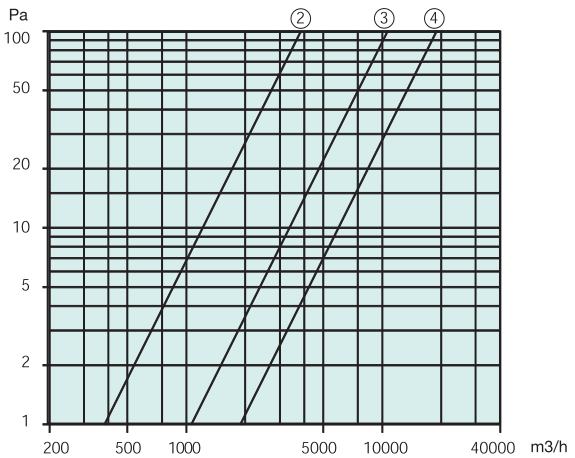
Automatic and motor driven shutter

The shutters **VKS** and **VKM** are manufactured from galvanized steel, shutter blades from seawater resistant aluminium.
VKM is equipped with a servo motor (230 V/50 Hz/25 W), which can be operated manually as well as through the automatic controllers of the air conditioning unit. While the motor is energized the shutter stays open. When separated from the supply the shutter will close automatically. For temperatures up to approx 70 °C. Suitable for DVS/DHS, DVSI, DVN.
The automatic shutter **VKS-EX/VKSV-EX** consists of flanges manufactured from galvanized steel epoxy painted RAL 9005, and of shutter blades manufactured from painted galvanized steel RAL 9005.

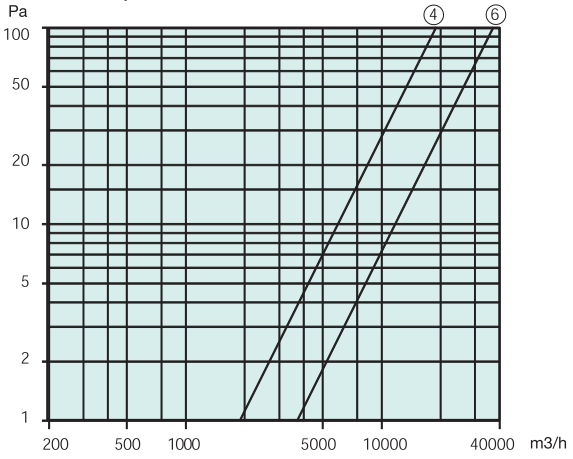
Pressure drop VKS/VKM



Pressure drop VKS-EX



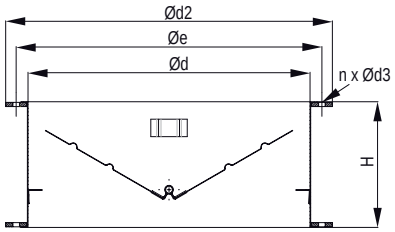
Pressure drop VKSV-EX



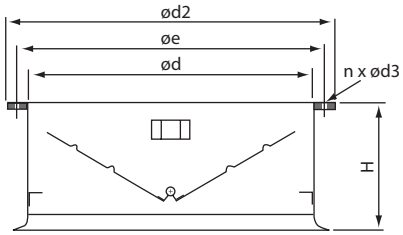


VKV/F, VKVE/F, VKG/F

VKV/F, VKG/F



VKVE/F



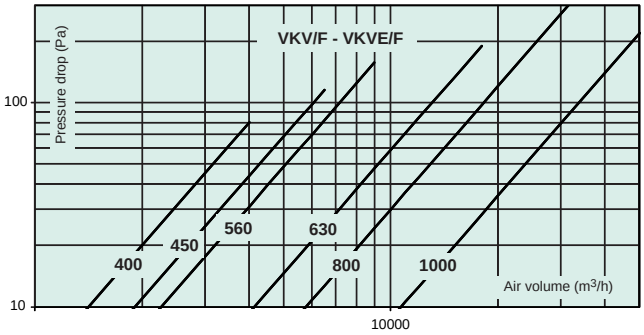
VKV/F, VKVE/F	Art. no.	ød	øe	ød2	H	nxød3	kg
400	3710 / 31112	322	356	386	160	8x9.5	4.3
450	3711 / 31113	360	395	425	175	8x9.5	5
560	3712 / 31114	404	438	468	180	12x9.5	5.7
630	3713 / 31115	507	541	571	250	12x9.5	9
800	3714 / 31116	636	674	712	290	16x11.5	15
1000	3715 / 31117	713	751	789	350	16x11.5	20

VKG/F	Art. no.	ød	øe	ød2	H	nxød3	kg
315-450	309952	404	438	468	180	6x9	6
500-560	309953	569	605	643	240	8x9	11
630	309954	636	674	712	290	8x9	15
800	95133	797	872	903	330	8X10	22

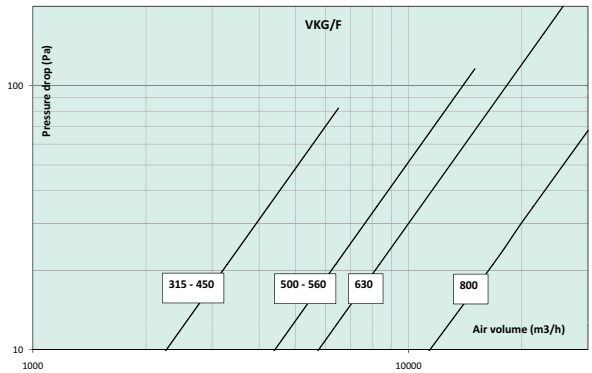
Automatic shutter

VKV/F and VKVE/F for roof fans DVV F400, F600 and 120 °C (not DVV-Ex), VKG/F for roof fans DVG and DVV-XS/XL. VKG/F sizes 630 and 800 have two pitch diameters (DIN for DVG and Eurovent for DVV-XS/XL) The casing and blades are manufactured from aluzinc steel.
VKV/F and VKVE/F are suitable for roof fans of range DVV F400, F600 and 120 °C (not DVV-EX), VKG/F are siutable for DVG roof fans.

Pressure drop VKV/F - VKVE/F



Pressure drop VKG/F

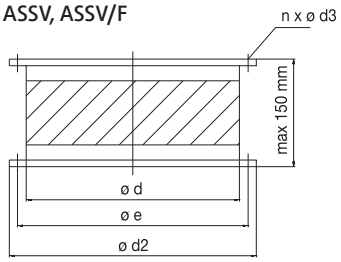




ASSV, ASSV/F, ASSV-EX

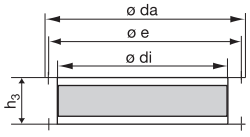
ASSV	Art. no.	ød	øe	ød2	n x ød3	kg
400	3716	322	356	382	8x9.5	2.9
450	3717	361	395	421	8x9.5	3.1
560	3718	404	438	464	12x9.5	3.5
630	3719	507	541	567	12x9.5	4.5
800	3720	638	674	712	16x11.5	10.2
1000	3721	715	751	795	16x11.5	11

ASSV, ASSV/F

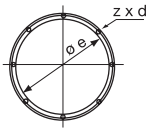


ASSV/F	Art. no.	ød	øe	ød2	n x ød3	kg
400	3722	322	356	382	8x9.5	2.9
450	3723	361	395	421	8x9.5	3.1
560	3724	404	438	464	12x9.5	3.5
630	3725	507	541	567	12x9.5	4.5
800	3726	638	674	712	16x11.5	10.2
1000	3727	715	751	795	16x11.5	11

ASSV-EX

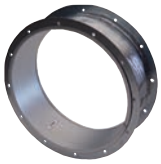


ASSV-EX	Art. no.	øda	øe	ødi	h3	z x d
630	4806	584	541	504	155	12xø12
800	4807	708	674	638	155	16xø12
1000	4808	814	751	711	155	16xø12



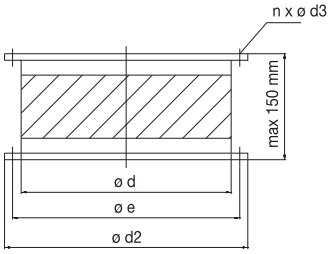
Flexible connection for DVV roof unit

The flexible connections prevent transmission of vibration to the duct system. With flanges in galvanized steel and neoprene fabric, in the high temperature version ASSV/F with high temperature resistant fabric. The smoke extract version was tested together with the DVV range in accordance with EN 12101-3.



ASSG/F

to the duct system. Galvanized steel flanges with high temperature resistant fabric. Suitable for the DVG and DVV-XS/XL fans in accordance with EN 12101-3 (F400 - 400 °C, 120 min.). ASSV/F sizes 630 and 800 have two pitch diameters (DIN for DVG and Eurovent for DVV-XS/XL).



Flexible connection for DVG and DVV-XS/XL fans

The flexible connections prevent transmission of eventual vibrations

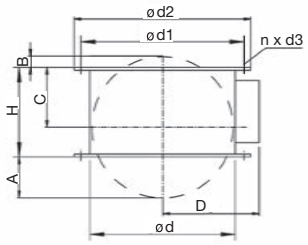
ASSG/F	Art. no.	ød	øe	ød2	nxd3	kg
315-450	309955	402	438	475	6X9	4.7
500/560	309956	569	605	652	8X9	7.3
630	309957	638	674	723	8X9	8.0
800	95214	797	872	910	8X10	21.1



VKGM

With 230 V/ 50 Hz ON-OFF spring return actuator. The blade opens when applying supply voltage. If the power supply is interrupted, the blade closes. Manual operation is possible.

Can not be used for DVV/F fans.



Motorized shutter

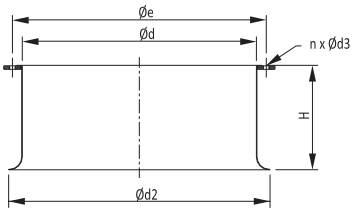
VKGM motor driven shutter. Suitable for roof fans DVV/120 °C.
Temperature up to 70 °C.
The blades are manufactured from galvanized steel.

VKGM	Art. no.	ød	ød1	ød2	n x ød3	A	B	C	D	H	kg
400	31250	322	356	386	8x9.5	100	0	190	260	250	5.8
450	31251	360	395	425	8x9.5	120	0	190	280	250	6.5
560	31252	404	438	468	12x9.5	140	10	190	305	250	7.2
630	31253	507	541	571	12x9.5	105	0	250	365	395	10.3
800	31254	636	674	712	16x11.5	170	65	250	445	395	22
1000	31255	713	751	789	16x11.5	210	105	250	485	395	25



ESDV

Recommended for non-ducted installations.
Can be mounted on VKV/F.



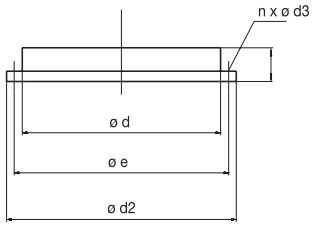
Inlet cone DVV

For use together with the roof fan DVV. For improving free inlet air flow. The inlet cone is manufactured from galvanized steel.

ESDV	Art. no.	ød	øe	ød2	H	nxød3	kg
400	31118	322	356	369	160	8x9.5	4.3
450	31119	360	395	407	175	8x9.5	5
560	31120	404	438	451	180	12x9.5	5.7
630	31121	507	541	586	250	12x9.5	9
800	31122	636	674	716	290	16x11.5	15
1000	31123	713	751	811	350	16x11.5	19



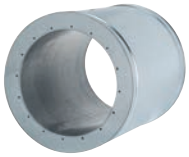
ASFV



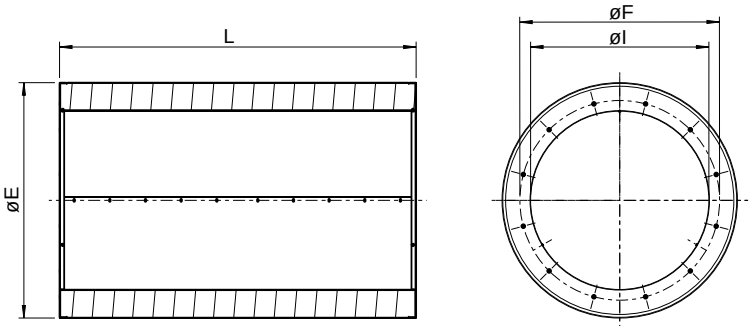
Inlet flange

Counter flange for connection to a duct system or to the accessories. Manufactured from galvanized steel. Suitable for DVV, DVG, DVV-XS/XL fans and accessories.

ASFV	Art. no.	ød	øe	ød2	nxd3	kg	for DVV	for DVG
400	3699	322	356	390	8X9.5	0.8	400	-
450	3698	361	395	428	8X9.5	0.9	450	-
560	3700	402	438	475	12X9.5	1.3	560	315-450
630	3701	505	541	577	12X9.5	1.8	630	-
800	3702	638	674	723	16X12	2.4	800	630
1000	3703	712	751	802	16X12	2.8	1000	-



RSA (F)



Silencer

Silencer RSA(F) for use together with axial fans of AXC-Range. For effective sound reduction the silencer should be mounted directly before or after the fan. The silencers are supplied with a flange according to Eurovent 1/2.

RSA (F)	øI	øE	øF	AxB	L	Art. no.	L	Art. no.	L	Art. no.
315	315	455	355	8xM8	315	311346	472,5	311347	630	311348
355	355	495	395	8xM8	355	311349	532	311350	710	311351
400	400	540	450	8xM10	400	311352	600	311353	800	311354
450	450	610	500	8xM10	450	311355	675	311356	900	311357
500	500	660	560	12xM10	500	311358	750	311359	1000	311360
560	560	720	620	12xM10	560	311361	840	311362	1120	311363
630	630	790	690	12xM10	630	311364	945	311365	1260	311368
710	710	870	770	16xM10	710	311369	1065	311370	1420	311371
800	800	1000	860	16xM10	800	311372	1200	311373	1600	311374
900	900	1100	970	16xM12	900	311375	1350	311376	1800	311377
1000	1000	1200	1070	16xM12	1000	311378	1500	311379	2000	311380
1120	1120	1320	1190	20xM12	1120	311381	1680	311382	2240	311383
1250	1250	1450	1320	20xM12	1250	311384	1875	311385	2500	311386

Attenuation dB frequency band Hz							
ØI/L	125	250	500	1 k	2 k	4 k	8 k
315/315	1	3	8	14	9	8	7
315/472.5	2	5	12	19	13	11	8
315/630	6	6	16	26	17	13	9
355/355	0	3	9	14	10	8	6
355/532	0	5	12	21	13	11	9
355/710	2	6	15	25	16	12	10
400/400	0	4	10	13	8	8	5
400/600	1	5	14	19	12	10	8
400/800	2	7	18	24	15	12	9
450/450	1	4	12	12	9	6	6
450/675	1	6	17	17	13	9	8
450/900	1	7	21	21	15	10	8
500/500	0	4	13	11	9	6	5
500/750	1	6	18	17	12	9	7
500/1000	2	8	23	21	14	11	8
560/560	0	4	14	11	8	5	4
560/840	2	7	20	15	11	8	5
560/1120	1	9	24	19	14	10	7
630/630	1	5	14	10	9	5	5
630/945	2	7	20	14	12	8	6
630/1260	2	9	25	17	14	10	7

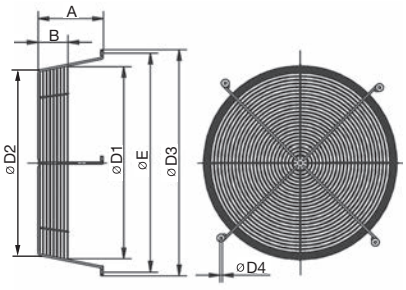
Attenuation dB frequency band Hz							
ØI/L	125	250	500	1 k	2 k	4 k	8 k
710/710	1	5	12	9	7	5	5
710/1065	2	7	18	11	9	6	7
710/1420	4	9	24	14	11	8	8
800/800	3	7	9	8	6	5	4
800/1200	5	10	13	12	9	7	7
800/1600	6	13	22	14	10	9	7
900/900	3	7	13	8	6	5	4
900/1350	5	11	16	11	7	7	5
900/1800	6	14	23	13	9	7	6
1000/1000	3	8	12	8	4	4	4
1000/1500	5	12	17	10	6	6	5
1000/2000	6	16	23	12	7	7	6
1120/1120	3	8	13	7	5	4	3
1120/1680	5	12	18	8	6	5	4
1120/2240	6	15	23	10	7	6	6
1250/1250	3	9	13	7	4	4	3
1250/1875	6	12	17	8	5	5	4
1250/2500	8	17	22	10	6	6	5

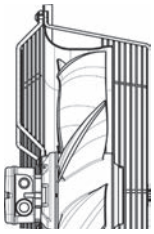


SG AW-D

SG AW-D	Art. no.	A	B	øE	øD1
350	30600	154	95	422	380
400	30601	145	64	500	431
450	30602	187	131	560	487
500	30603	184	83	615	539
560	30604	223	120	658	597
630	30605	231	127	720	682
710	30606	295	152	835	743

SG AW-D	Art. no.	øD2	øD3	øD4	
350	30600	387	444	7	
400	30601	424	522	7	
450	30602	455	582	7	
500	30603	522	637	7	
560	30604	569	680	7	
630	30605	677	742	7	
710	30606	702	857	9.5	





Protection guard

For axial fans, model range AW. Outlet mounting. Steel with black powder coating, RAL 9005.

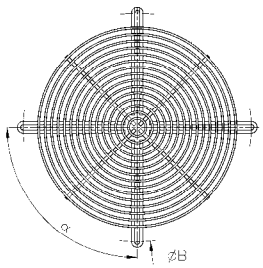


SG AR/AXC, SG AW

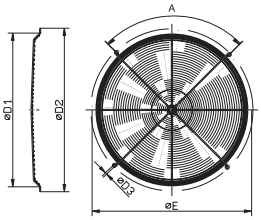
SG AR/AXC	Art. no.	øB	W°	kg
315	310685	355	45	0.9
355	310686	395	45	1.0
400	310687	450	45	1.3
450	310688	500	45	1.5
500	310689	560	30	2.1
560	310690	620	30	2.4
630	310691	690	30	2.9
710	310692	770	22.5	3.6
800	310693	860	22.5	4.3
900	310694	970	22.5	5.2
1000	310695	1070	22.5	6.1
1120	310696	1190	45	6.1
1250	310697	1320	45	9.0

SG AW	Art. no.	A	øD1	øD2	øD3	ØE
710	3395	4x90°	782	856	9	835
800	3397	4x90°	901	979	9	960
900	301300	4x90°	1030	1134	9	1115
1000	3398	4x90°	1110	1161	9	1140

SG AR/AXC



SG AW



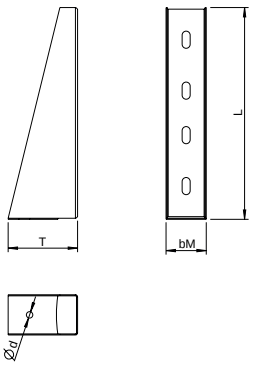
Protection guard

For axial fans of the Range AXC and AR sileo with flange dimensions according Eurovent 1/2. Steel with black powder coating, RAL 9005.
SG-AW: Protection guard for inlet side for axial fans of Range AW.



MP

MP	Art. no.	L	T	bM	ød
315-355	303824	369.5	128	70	17
400-450	303825	444.5	128	75	17
500	306752	535	133	80	17
560-630	303827	743	133	120	17
710-800	306755	693	133	120	17
900-1000	303821	629	140	130	17
1120	309287	695	157	120	17
1250	303822	1038	157	150	17
560-800	306753	493	136	120	17
710	303829	794	133	120	17
900-1250	306758	840	155	120	17
1120	306760	991	157	120	17

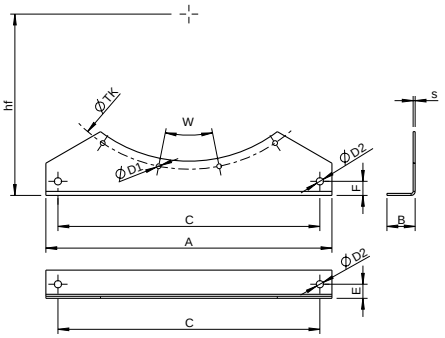


Mounting brackets

Mounting brackets for vertical mounting of medium pressure axial fans. Manufactured from hot dip galvanized steel.
Four pieces per fan needed, not possible to retrofit, has to be ordered with the fan.



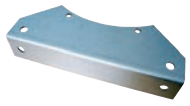
MFA-AR/ AXC



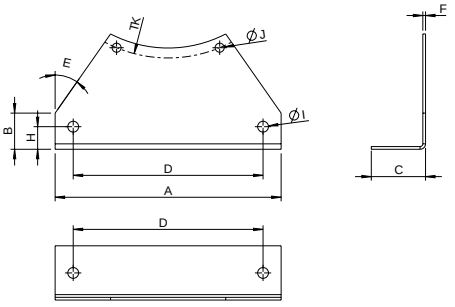
Mounting feet

The mounting feet MFA AXC are manufactured from hot dip galvanized steel, with holes for mounting at flanges according Eurovent 1/2.

MFA AXC	Art. no.	A	B	C	E	F	D2	s	TK	D1	W	hf
315	311283	315	60	265	30	25	14	2.5	355	10	45	235
355	311284	355	60	305	30	25	14	2.5	395	10	45	250
400	311285	400	60	350	30	25	16	2.5	450	12	45	280
450	311286	450	60	400	30	30	16	2.5	500	12	45	315
500	311287	500	70	440	35	45	11	3.0	560	12	30	335
560	311288	560	70	500	35	35	11	3.0	620	12	30	375
630	311289	630	70	570	35	35	11	3.0	690	12	30	425
710	311290	710	70	650	35	35	11	5.0	770	12	22.5	450
800	311291	800	80	730	40	40	11	5.0	860	12	22.5	530
900	311292	900	80	830	40	40	11	5.0	970	15	22.5	560
1000	311293	1000	80	930	40	40	11	5.0	1070	15	22.5	670
1120	311294	1120	80	1030	40	50	11	5.0	1190	15	18	710
1250	311295	1250	100	1180	50	50	11	5.0	1320	15	18	800



MFA-AXCBF



Mounting feet

For use with the AXCBF range. The mounting feet MFA-AXCBF are manufactured from galvanized steel.

For AXCBF 630 and 800 you can use MFA-AR/ AXC.

MFA-AXCBF	Art. no.	A	hf	C	D	E	F	H	I	J	TK
250	313300	250	250	60	210	50°	3	25	4x11	2x10	280
315	308725	315	250	60	265	45°	3	25	4x11	2x10	355
400	308726	400	315	60	350	45°	3	30	4x11	2x10	450
500	308727	500	362	70	440	60°	3	42	4x11	4x12	560



Image source: Hilti Deutschland AG

Safety-anchor for jet fan installation

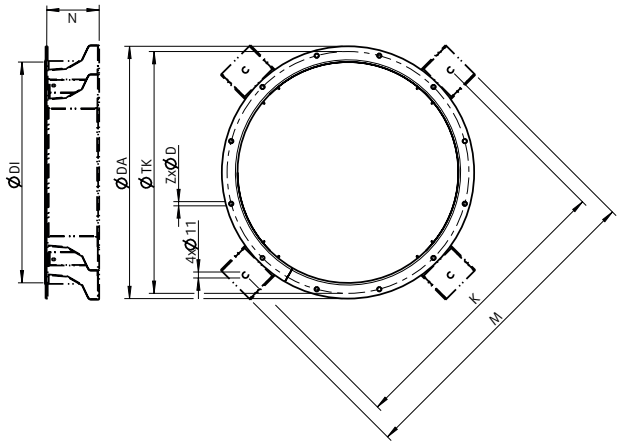
Approved under ETA-02/0027.

AJR-TR	AJ8	IV
M8x40/15	M10x40/20	M12x60/20

4 pieces per Jet fan.



MPR AXC



Mounting ring AXC

MPR mounting ring for vertical mounting of the Axial fans series AXC. Manufactured from hot dip galvanized steel.

MPR	Art. no.	ØDA	ØDI	ØTK	ZxØD	K	M	N
315	309800	395	315	355	8x10	495	575	150
355	309801	435	355	395	8x10	535	615	150
400	309802	480	400	450	8x12	580	660	150
450	309803	530	450	500	8x12	630	710	150
500	309804	590	500	560	12x12	696	776	150
560	309805	650	560	620	12x12	758	838	150
630	309806	720	630	690	12x12	828	908	150
710	309807	800	710	770	16x12	908	988	150
800	309808	890	800	860	16x12	998	1078	150
900	309809	1005	900	970	16x15	1108	1188	150
1000	309810	1105	1000	1070	16x15	1208	1288	150

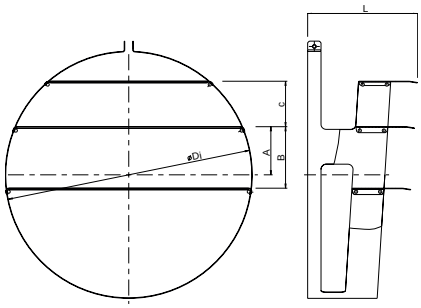


DF-AJ

Guide vane Jet

Guide vanes manufactured from galvanized steel, to direct the air flow are available as assessories for AJ.

DF-AJ	Art. no.	A	B	C	øDi	L
315	309655	90	115	85	420	207
355	309656	90	115	85	460	207
400	309657	130	130	85	505	207





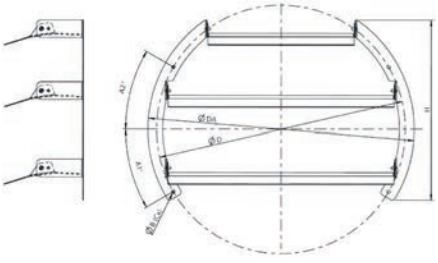
DF-AJ8

Guide vane Jet

Guide vanes galvanized steel, to direct the air flow. Available as accessories for AJ8.

DF-AJ8	Art. no.	A1	A2	B	C
315	300886	30°	30°	5.5	4
355	300887	30°	30°	5.5	4
400	303989	-	60°	5.5	4

DF-AJ8	Art. no.	øD	øDA	H	L
315	300886	400	420	276	107
355	300887	420	450	305	138
400	303989	464	500	500	138





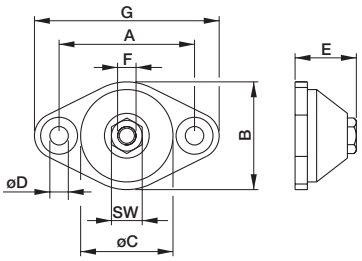
SD-AXC

Vibration damper

Rubber-metal-bearing for active and passive vibration- and impact sound isolation. Suitable for temperatures from -40 °C up to 70 °C.

SD	Art. no.	A	B	øC	øD
315-450	8340	45	35	30	6
500-630	8341	70	50	45	9
710-1000	8342	105	80	70	13

SD	Art. no.	E	F	G	SW
315-450	8340	15	M6	60	11
500-630	8341	27	M10	90	17
710-1000	8342	45	M16	140	24





FSD-AXC

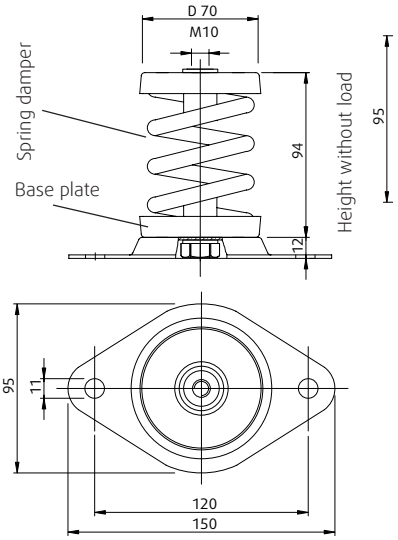
Spring damper AXC/set

Spring damper for active and passive vibration- and impact sound isolation. Steel spring vibration isolators consist of a cylindrical screw spring designed according to DIN EN10270-1:2001 with two end plates with M10 internal thread.

Spring damper set consists of 4 pcs spring dampers including base plate.
For the selection of FSD the weight-force (in N) at the point of support and the oscillation frequency (1/min) is needed.

Numeric data of the spring (FSD)

Description	Nominal range per FSD [N]	Spring rate [N / mm]
FSD1	120 - 225	7.93
FSD2	195 - 370	12.90
FSD3	300 - 620	20.16
FSD4	475 - 1100	31.64
FSD5	720 - 1600	48.07
FSD6	1130 - 2455	75.56
FSD7	1815 - 3680	121.03
FSD8	2800 - 4910	187.10
FSD9	3750 - 6380	234.30





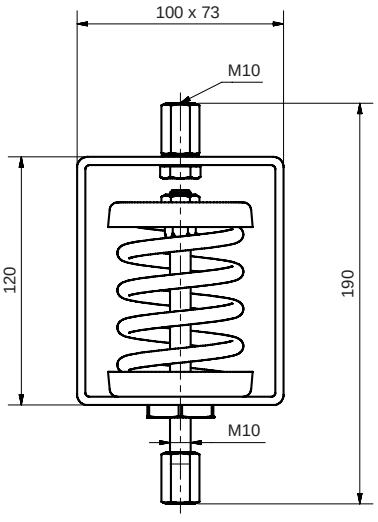
ZSD

Tension load spring damper AXC/set

Spring damper for active and passive tensile vibration loads and sound insulation. Unit consists of a rectangular housing, a spring element and two connection nuts with M10 internal thread for threaded rods.
The cylindrical screw spring is designed according to DIN EN10270-1:2001.
Spring damper set consists of 4 pcs spring dampers.
For the selection the weight-force (in N) at the point of support and the oscillation frequency (1/min) is needed.

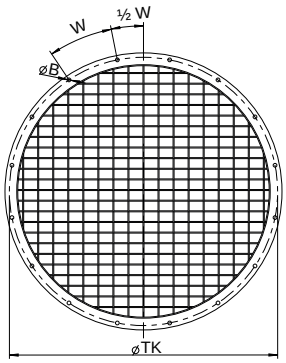
Numeric data of the spring (ZSD)

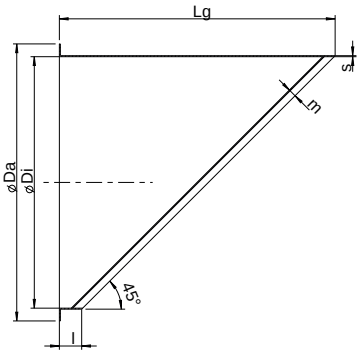
Description	Nominal range per ZSD [N]	Spring rate [N/mm]
ZSD1	120 - 225	7.93
ZSD2	195 - 370	12.90
ZSD3	300 - 620	20.16
ZSD4	475 - 1100	31.64
ZSD5	720 - 1600	48.07
ZSD6	1130 - 2455	75.56
ZSD7	1815 - 3680	121.03





ABS AXC

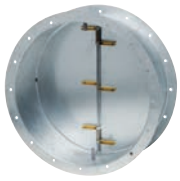




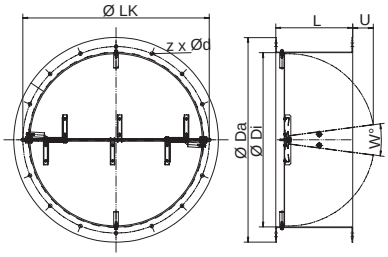
Weather cowl with protective guard

made from galvanized steel, with flange holes in accordance with Eurovent 1/2.

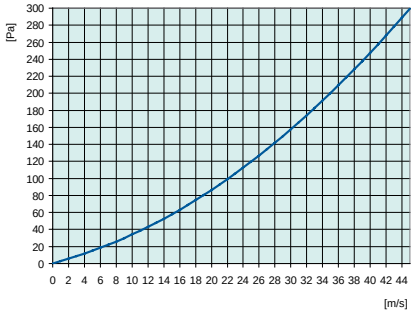
ABS	Art.no.	ØDi	ØDa	ØTK	ØB	W	Lg	l	m	s
315	302950	317.5	395	355	10	45°	340	25	15	1.5
355	302961	357.5	435	395	10	45°	380	25	15	1.5
400	302952	402.5	480	450	12	45°	450	50	20	1.5
450	302953	452.5	530	500	12	45°	500	50	20	1.5
500	302954	502.5	590	560	12	30°	550	50	20	1.5
560	302955	562.5	650	620	12	30°	610	50	20	1.5
630	302956	632.5	720	690	12	30°	680	50	20	2.0
710	302957	712.5	800	770	12	22.5°	760	50	20	2.0
800	302958	802.5	890	860	12	22.5°	850	50	20	2.0
900	302959	902.5	1005	970	15	22.5°	950	50	20	2.0
1000	308737	1003.5	1105	1070	15	22.5°	1100	100	30	3.0
1120	311824	1123.5	1260	1190	15	18°	1220	100	30	3.0
1250	311235	1253.5	1390	1320	15	18°	1350	100	30	3.0
1400	311825	1403.5	1540	1470	15	18°	1500	100	30	3.0
1600	311826	1603.5	1760	1680	19	15°	1700	100	50	3.0



LRK(F)



LRK (F) Pressure drop



Automatic shutter

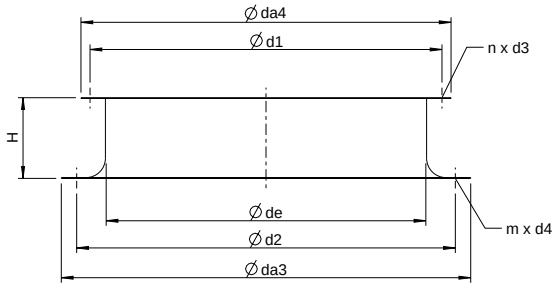
The casing and blades are manufactured from galvanized steel. For use with the AXC axial fan range with temperatures up to 400 °C/120 min. For use in horizontal and vertical installation.

NOTE: Not usable for downwards air direction and also not usable on inlet side of the fan!

LRK(F)	Art. no.	øDa	øDi	øLK	zxød	L	U	W°
315	8316	398	320.5	355	8xø10	250	-	0°
355	8317	438	359.5	395	8xø10	250	-	5°
400	8318	484	401.5	450	8xø12	250	-	5°
450	8319	534	450.5	500	8xø12	250	13.6	5°
500	8320	584	504.5	560	12xø12	250	35	15°
560	8321	664	565.5	620	12xø12	250	64.8	15°
630	8322	734	634.5	690	12xø12	250	101.2	15°
710	8323	812	711	770	16xø12	350	39.3	15°
800	8324	904	797.5	860	16xø12	350	83	15°
900	8325	1004	894	970	16xø15	350	134	15°
1000	8326	1105	1003.5	1070	16xø15	350	180	15°
1120	30459	1242	1122	1190	20xø15	350	245	15°
1250	8327	1350	1250.5	1320	20xø15	400	249	15°



ESD-F AXC



Inlet cone

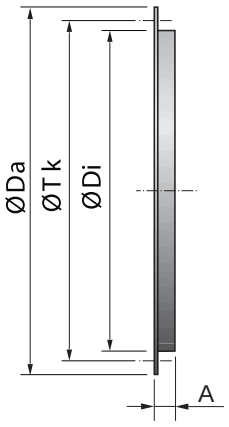
The inlet cone is manufactured from galvanized steel. Suitable for axial fans AXC range.

ESD-F	Art.no.	ød1	øde	ød2	øda3	øda4	H	nxd3	mxd4
315	305256	355	320	395	438	398	160	8xø10	8xø10
355	305257	395	359	450	484	438	160	8xø10	8xø10
400	305258	450	401	500	534	484	160	8xø12	8xø12
450	305259	500	450	560	584	534	160	8xø12	12xø12
500	305260	560	504	620	664	584	160	12xø12	12xø12
560	305261	620	565	690	734	664	160	12xø12	12xø12
630	305262	690	634	770	812	734	160	12xø12	16xø12
710	305263	770	711	860	904	812	160	16xø12	16xø12
800	305264	860	797	970	1004	904	160	16xø12	16xø15
900	305265	970	894	1070	1105	1004	160	16xø15	16xø15
1000	305266	1070	1003	1190	1242	1105	160	16xø15	20xø15
1120	303848	1190	1122	1320	1370	1242	160	20xø15	20xø15
1250	305267	1320	1250	1470	1533	1370	160	20xø15	20xø15



GFL-AR/ AXC/ AXCBF

GFL-AR/AXC	Art. no.	øDa	øDi	øTk	A	nxd3
315	8376	395	322	355	30	8xø10
355	8377	435	361	395	30	8xø10
400	8378	480	402	450	30	8xø12
450	8379	530	455	500	35	8xø12
500	8380	590	505	560	35	12xø12
560	8381	650	569	620	35	12xø12
630	8382	720	638	690	35	12xø12
710	8383	800	712	770	35	16xø12
800	8384	890	802	860	35	16xø12
900	8385	1005	902	970	52	16xø15
1000	8386	1105	1003	1070	55	16xø15
1120	300848	1260	1122	1190	55	20xø15
1250	8387	1390	1250	1320	55	20xø15



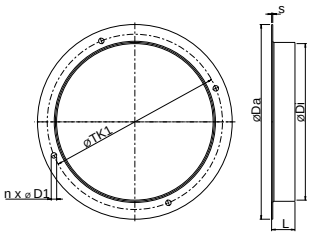
Counter flange

For axial fans type AR and AXC. The counterflange GFL-AXC is manufactured from galvanized steel.

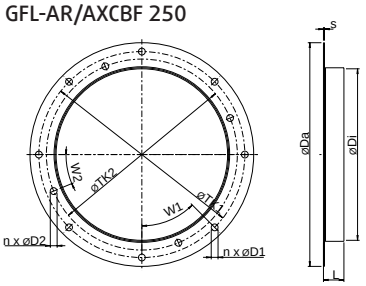


GFL-AR/ AXCBF

GFL-AR 200



GFL-AR/AXCBF 250



Counter flange

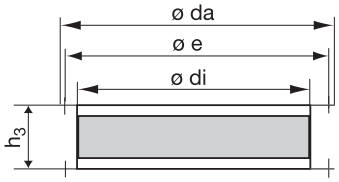
The counterflange is suitable for the AR sileo and AXCBF range of axial fans. Manufactured from galvanized steel.

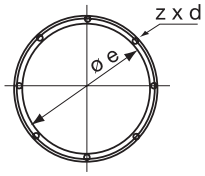
GFL-AR	Art. no.	øDa	øDi	øTk1	nxøD1	L	s
200	308868	250	201	225	4xø7	30	1.5

GFL-AR/AXCBF	Art. no.	øDa	øDi	øTk1	nxøD1	W1°	øK	nxøD2	W2°	L	s
250	311162	328	251.5	302	8xø10	45	280	4x10	22.5	30	1.5



EV-AR/AXC





Flexible connection

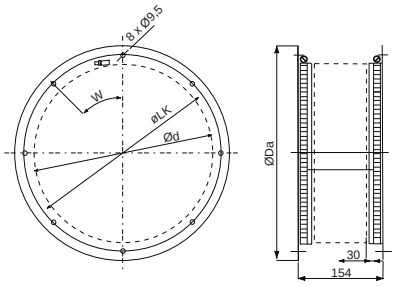
Flexible connections for the AR/AXC range of axial fans. The flexible connections consist of 2 counter flanges manufactured from galvanized steel with flexible neoprene coated fabric in between.

EV-AR/AXC	Art. no.	øda	ødi	h3	zxød
200	308869	250	201	153	4xø7
250	311174	328	251	153	4xø10
315	8352	390	322	153	8xø10
355	8353	435	361	153	8xø10
400	8354	480	402	154	8xø12
450	8355	534	455	154	8xø12
500	8356	585	505	154	12xø12
560	8357	652	569	154	12xø12
630	8358	723	638	154	12xø12
710	8359	802	712	154	16xø12
800	8360	890	797	155	16xø12
900	8361	1005	903	162	16xø15
1000	8362	1105	1003	165	16xø15
1120	300849	1225	1122	166	20xø15
1250	8363	1370	1250	165	20xø15

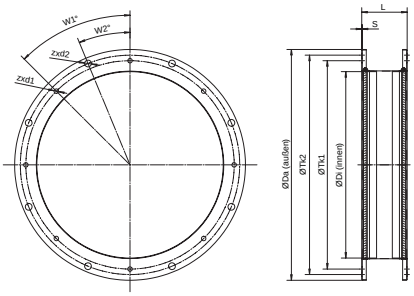


EVH AXC

EVH 315-355



EVH 250, 400-1250



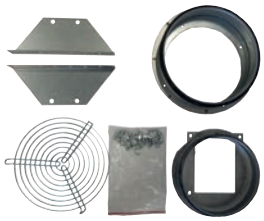
Flexible connection

(max. 400 °C/120 min.)

The flexible connections prevent transmission of vibrations to the duct system. With galvanized steel flanges and high temperature resistant fabric.

EVH	Art. no.	øDa	ød	øLK	W°
315	8364	395	322	355	45°
355	8365	435	361	395	45°

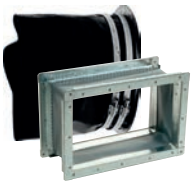
EVH	Art. no.	øDa	øDi	øTK1	zxd1	W1°	TK2	zxd2	W2°	L	s
250	311163	328	251	280	8xø10	45	302	8xø10	90	154	1.5
400	8366	480	402	438	12xø9.5	30	450	8xø12	22.5	154	2
450	8367	534	455	487	12xø9.5	30	500	8xø12	22.5	154	2
500	8368	585	505	541	12xø9.5	30	560	12xø12	15	154	2
560	8369	652	569	605	16xø12	22.5	620	12xø12	15	154	2
630	8370	723	638	674	16xø12	22.5	690	12xø12	15	154	2
710	8371	802	712	751	16xø12	22.5	770	16xø12	11.25	154	2
800	8372	890	797	837	24xø12	15	860	16xø12	11.25	154	2
900	8373	1005	903	934	24xø12	15	970	16xø12	11.25	154	2.5
1000	8374	1105	1003	1043	24xø12	15	1070	16xø12	11.25	154	2.5
1120	300850	1225	1122	1174	24xø12	15	1190	20xø15	9	154	2.5
1250	8375	1370	1250	1311	24xø12	15	1320	20xø15	9	154	2.5



Connection accessories kit

The kit includes:
- 2pcs mounting feet
- Outlet and inlet sleeve connection. Makes it possible to connect the fans to spiral duct.
- Outlet and inlet protection guard.
- All necessary fasteners included

Kit	Art. no.
EX 140-125	33795
EX 140-160	33796
EX 180-160	33797
EX 180-200	33798



ISE/USE

Flexible connections

Flexible connections for the DKEX centrifugal radial fans. ISE supply connection is fixed with a strap to the spiral ducting.
ISE: flex. length 100-158 mm.
USE: flex. length 65-120 mm.

For DKEX				
Size	Inlet	Art. no.	Outlet	Art. no.
200	ISE 200	5107	USE 200	1595
225	ISE 225/250	5108	USE 225	1596
250	ISE 225/250	5108	USE 250	1597
280	ISE 280/315	5109	USE 280	1598
315	ISE 280/315	5109	USE 315	1599
355	ISE 355/400	5110	USE 355	1600
400	ISE 355/400	5110	USE 400	1601
450	ISE 450	5111	USE 450	1602

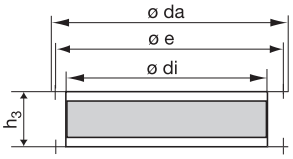


ASS-EX, ASSV-EX

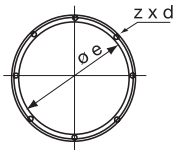
Flexible connection

Manufactured from galvanized steel, with neoprene coated antistatic fabric.
For temperature up to 70 °C.
Suitable for DVEX, DVV-EX.

ASS-EX	Art. no.	øda	øe	ødi	h3	zxd
310/311	4830	306	285	256	130	6xø7
355-500	4831	464	438	402	130	6xø9
560/630	30597	639	605	569	130	8xø9



ASSV-EX	Art. no.	øda	ø e	ø di	h3	zxd
630	4806	584	541	504	155	12xø12
800	4807	708	674	638	155	16xø12
1000	4808	814	751	711	155	16xø12



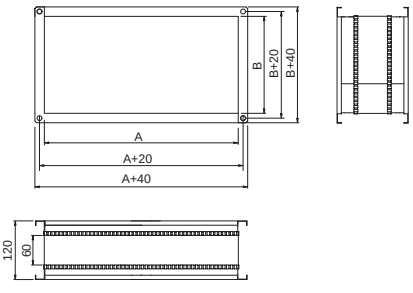


DS-EX

Rectangular flexible connections

Flexible connections for the KTEX. Fitted with flanges to match the fan. Flexible lengths from 100 to 158 mm. Flange width 20 mm.

DS-EX	Art. no.	A	B
50-25	4116	500	250
50-30	4117	500	300
60-30	4118	600	300
60-35	4119	600	350
70-40	4120	700	400





BS

Protection guard EX

Manufactured from galvanized steel, for EX 140 and 180.

BS 140 = *Art. no. 4029*
BS 180 = *Art. no. 4032*



Cable gland set

A2F, cable glands Ex d and Ex e

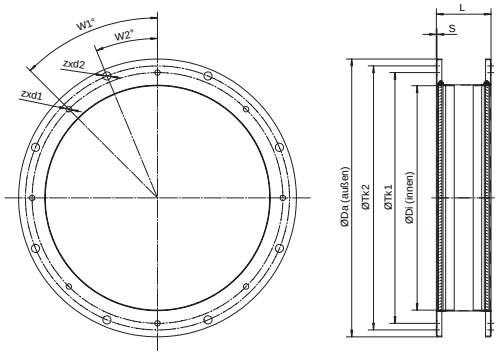
Manufactured from brass. Suitable for use with normal unarmoured cables. Including gasket and counter nut.



EV-EX/AXC

Flexible connection

Flexible connections for the AXC-EX range.The flexible connections consist of 2 counter flanges manufactured from galvanized steel with flexible PVC-EX coated fabric in between. When flexible connectors are fitted, those have to be earthed.



EV/EX	Art. no.	øDa	øDi	øTK1	zxd1	W1°	øTK2	zxd2	W2°	L	s
315	308411	390	322	355	8xø10	45	-	-	-	154	1.5
355	308412	428	361	395	8xø10	45	-	-	-	154	1.5
400	308413	475	402	438	12xø9.5	30	450	8xø12	22.5	154	2.0
450	308414	524	455	487	12xø9.5	30	500	8xø12	22.5	154	2.0
500	308415	577	505	541	12xø9.5	30	560	12xø12	15	154	2.0
560	308416	652	569	605	16xø12	22.5	620	12xø12	30	154	2.0
630	308417	723	638	674	16xø12	22.5	690	12xø12	30	154	2.0
710	308418	802	712	751	16xø12	22.5	770	16xø12	11.25	154	2.0
800	308419	890	797	837	24xø12	15	860	16xø12	11.25	154	2.0
900	308420	1000	894	934	24xø12	15	970	16xø14	11.25	154	2.5

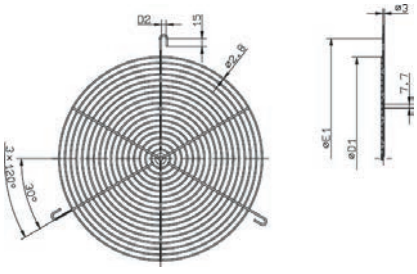


SG-EX

Protection guard

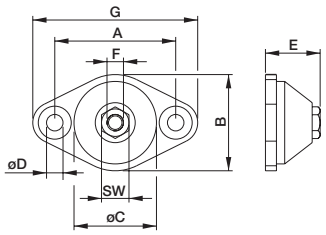
For centrifugal fans, model range DKEX. Inlet mounting. Black plastic cover, RAL 9005.

SG-EX	Art. no.	D1	D2	E1
SG-EX 225	31381	181	6,5	235
SG-EX 250	31382	202	6,5	259
SG-EX 280	31383	223	6,5	286
SG-EX 315	31384	265	6,5	322
SG-EX 355	31385	286	8,5	356





SD-PRF



Vibration damper PRF (4 pcs.)

Rubber-metal-bearing for active and passive vibration- and impact sound isolation.

SD-PRF	Art. no.	A	B	⌀ C	⌀ D	E	F	G	SW
125	32567	45	35	30	6	20	M6	60	11
160	32568	70	50	45	9	32	M10	90	17

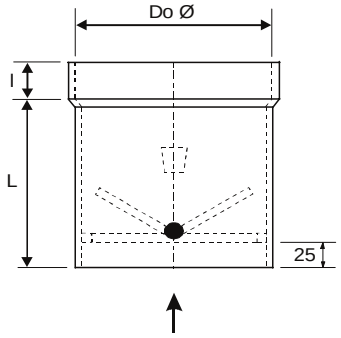


VKS-DVP

Automatic shutter for DVP

The automatic shutter is manufactured from PP.

VKS-DVP	Art. no.	L	I	Do⌀
200	311515	200	40	200
250	311516	225	40	250
315	311517	260	50	315
400	311518	300	50	400



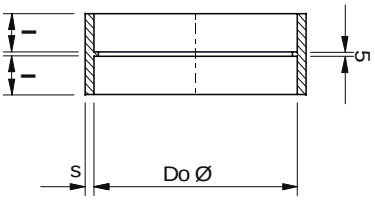


ASF-DVP

Inlet flange for DVP

Manufactured from PP.

ASF-DVP	Art. no.	I	S	Do⌀
200	311519	40	3.0	200
250	311520	40	3.5	250
315	311521	50	4.0	315
400	311522	50	4.5	400





VP

Splinter protection PRF

The splinter protection is manufactured from PVC and the fixing ring consists of stainless steel.

VP	Art. no.	suitable for
125	305461	PRF 125
160	305462	PRF 160
180	305463	PRF 180
200	305464	PRF 200
250	305465	PRF 250

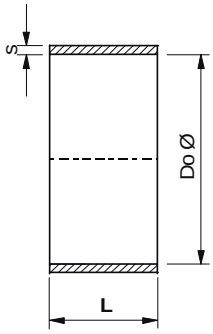


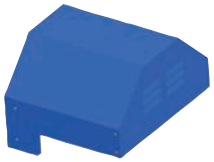
ASS-DVP

Flexible connection for DVP

The flange is manufactured from PVC.

ASS-DVP	Art. no.	L	S	Do ⌀
200	311523	150	3.0	200
250	311524	150	3.0	250
315	311525	150	3.0	315
400	311526	200	3.0	400



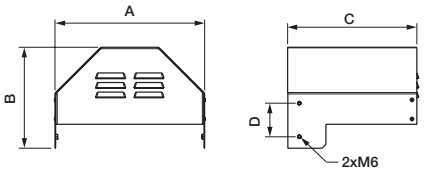


WSD PRF

Weather roof for motor

Additional weather protection for the motor of PRF fans, if the fan is outdoor mounted. Manufactured from seawater resistant aluminium. The WSD PRF is painted in RAL 5015.

WSD PRF	Art. no.	A	B	C	D
125	309456	228	173.5	210	60
160	309457	283	201	270	60
180	309458	313	211	270	70
200	309459	348	218.5	320	70
250	309460	287	228.5	400	70



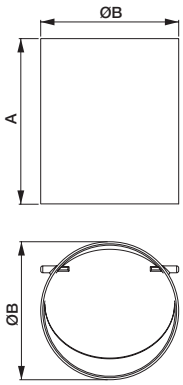


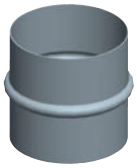
VKS-P

Automatic shutter for PRF

The automatic shutter is manufactured from PP.

VKS-P	Art. no.	A	Ø B
125	32374	155	125
160	32375	155	160
180	32381	155	180
200	32376	155	200
250	32378	155	250



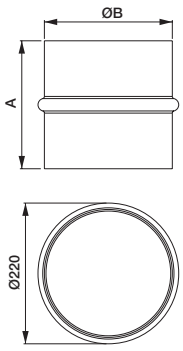


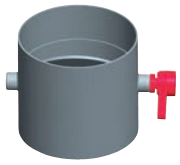
ASS-P

Flexible connections for PRF

The flexible connection is manufactured from PVC.

ASS-P	Art. no.	A	Ø B
125	32364	205	125
160	32365	240	160
180	32379	260	180
200	32366	280	200
250	32368	330	250





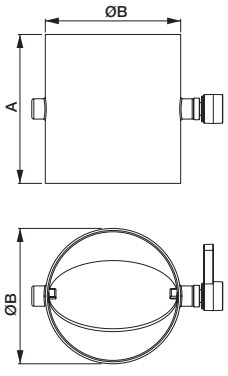
VKA-P

Adjustable shutter for PRF

The adjustable shutter is manufactured from PP.

NOTE: not usable for vertical or downward air direction.

VKA-P	Art. no.	A	Ø B
125	32369	120	125
160	32370	120	160
180	32380	120	180
200	32371	120	200
250	32373	120	250





ZTV/ZTVB

Water valve, 2-way

- For water and cooling media (max. 30% glycol)
- Media temperature 1...110°C
- Pressure class PN16
- Rangeability better than 50:1
- Differential pressure up to 350 kPa (ZTV)
- Differential pressure up to 250 kPa (ZTVB)

The control valves ZTV and ZTVB are 2-way valves. The body and plug are manufactured from brass, the spindle in stainless steel and O-ring in EPDM.
ZTV valves have equal percentage flow characteristics. ZTVB valves have linear flow characteristics.

Valve actuators

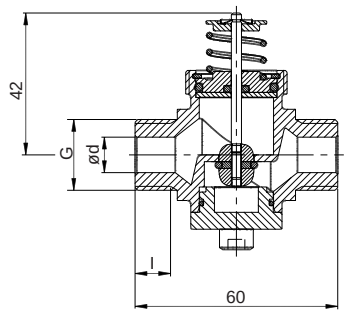
The valves are intended to be used together with RVAZ4-24 or RVAZ4-24A actuators.

Technical data		
Flow charac.		Equal percentage
Media temp.	°C	1...+110
Connection		External thread
Max. stroke	mm	5
Max. leakage	%	0
Pressure rating		PN16 (1.6MPa)
Regulating ratio		50:1
Material body		Brass
Material cone		Brass
Material spring		Stainless steel
O-ring		EPDM

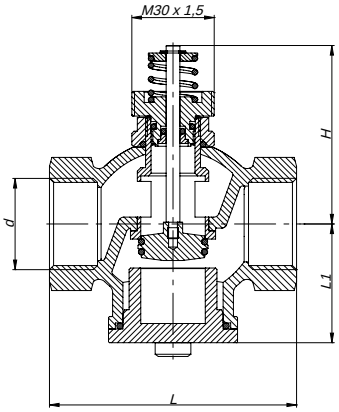
ZTV	Art. no.	Connection	G	l	h
15-0.4	9829	DN15	1/2"	9	40
15-1.0	9823	DN15	1/2"	9	40
15-1.6	9824	DN15	1/2"	9	40
20-2.0	9830	DN20	3/4"	12.5	40
20-2.5	9825	DN20	3/4"	12.5	40
20-4.0	9826	DN20	3/4"	11.5	50
20-6.0	9827	DN20	3/4"	11.5	50

ZTVB	Art. no.	Connection	d	L	L1	H
25-8.0	4738	DN25	1"	90	44	65
32-15	2588	DN32	1 1/4"	105	43	66
40-20	2589	DN40	1 1/2"	120	48	68

ZTV



ZTVB





ZTR/ZTRB

Water valve, 3-way

- For water and cooling media (max 30% glycol)
- Media temperature 1...110°C
- Pressure class PN16
- Rangeability better than 50:1
- Differential pressure up to 350 kPa (ZTR)
- Differential pressure upt to 250 kPA (ZTRB)

The control valves ZTR and ZTRB are 3-way valves. The body is manufactured from brass and spindle in stainless steel, the plug in brass and O-ring in EPDM.
The valves have equal percentage flow characteristics.

Valve actuators

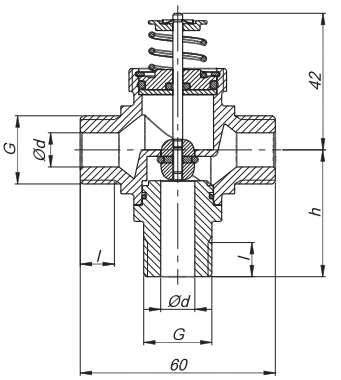
The valves are intended to be used together with actuator RVAZ4-24A or RVAZ4-24.

Technical data		
Flow charac.		Equal percentage
Media temp.	°C	1...+110
Connection		External thread
Max. stroke	mm	5
Max. leakage	%	0
Pressure rating		PN16 (1.6MPa)
Regulating ratio		50:1
Material body		Brass
Material cone		Brass
Material spring		Stainless steel
O-ring		EPDM

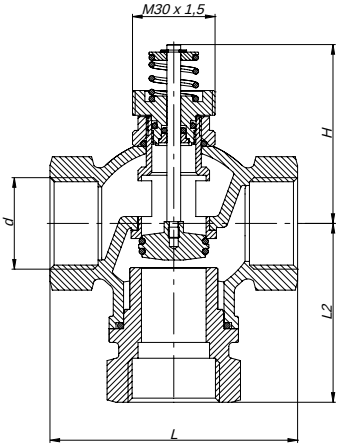
ZTR	Art. no.	Connection	G	l	h
15-0.4	9670	DN15	1/2"	9	40
15-1.0	9672	DN15	1/2"	9	40
15-1.6	9673	DN15	1/2"	9	40
20-2.0	9674	DN20	3/4"	12.5	40
20-2.5	9677	DN20	3/4"	12.5	40
20-4.0	9678	DN20	3/4"	11.5	50
20-6.0	9827	DN20	3/4"	11.5	50

ZTRB	Art. no.	Connection	d	L	L2	H
25-8.0	4735	DN25	1"	90	67	65
32-15	2596	DN32	1 1/4"	105	75	66
40-20	2597	DN40	1 1/2"	120	85	68

ZTR



ZTRB





BDS

Back draught shutter

Back draught shutter for bathroom fans.

BDS	Art. no.	Length
100	5927	55 mm
120	5928	62 mm
150	5929	77 mm

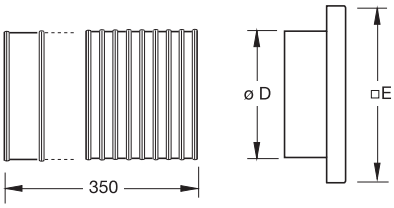


BVK

Wall vent kit

Wall lead-through BVK.
Wall grid and flexible aluminium duct.

BVK	Art. no.	□E	øD
100	5965	140	100
120	5966	160	125
150	5967	180	150



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