



# The catalogue

For extraction technology and occupational health & safety

[www.kemper.eu](http://www.kemper.eu)

**KEMPER®**



 Mobile Filter Units




 Extraction Systems - Central And Stationary




 High-Vacuum Extraction




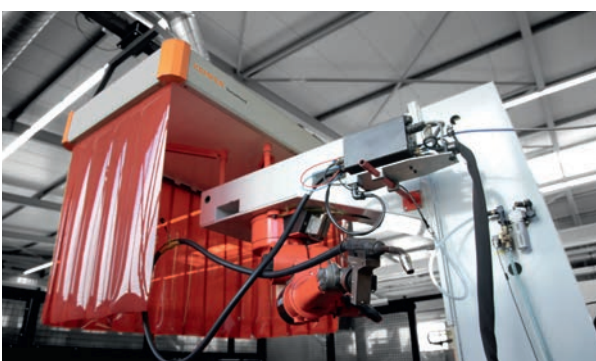
 General Ventilation Systems




 Exhaust Arms and Fans




 Extraction and Cutting Tables



 Extraction Hood - VarioHood



 Protective Welding Equipment and Welding Helmets



5 **Mobile Filter Units**

Disposable Filter  
Cleanable Filter



23 **Extraction Systems - Central And Stationary**

Stationary - Disposable Filter  
Stationary - Cleanable Filter

Central Extraction and Filtration Units



49 **High-vacuum extraction**



61 **General Ventilation Systems**



71 **Exhaust Arms And Fans**

Exhaust Arms  
Fans



93 **Extraction And Cutting Tables**

Tables For Manual Applications  
Extraction Tables For Cutting Systems



108 **Extraction Hood - VarioHood**



113 **Protective Welding Equipment And Welding Helmets**

autodark® - Automatic Welding Helmet  
autoflow® - Respiratory Protection System  
Protection Curtains And Walls

Sound insulating partitioning wall systems  
Welding protective blankets



161 **Worth Knowing**





**KEMPER**  
MaxiFil



## Mobile Filter Units

### Overview

|  |   |
|--|---|
| Areas of application for mobile filter units | 6 |
| Selection criteria for mobile filter units   | 7 |

### Disposable Filter

|  |    |
|--|----|
| SmartMaster  | 8  |
| ProfiMaster, one exhaust arm                                       | 9  |
| ProfiMaster, two exhaust arms                                      | 10 |
| MaxiFil  | 11 |
| Comparative measurement mobile filter units with Single use filter | 12 |
| Product Comparison mobile Filter Units with disposable Filter      | 13 |

### Cleanable Filter

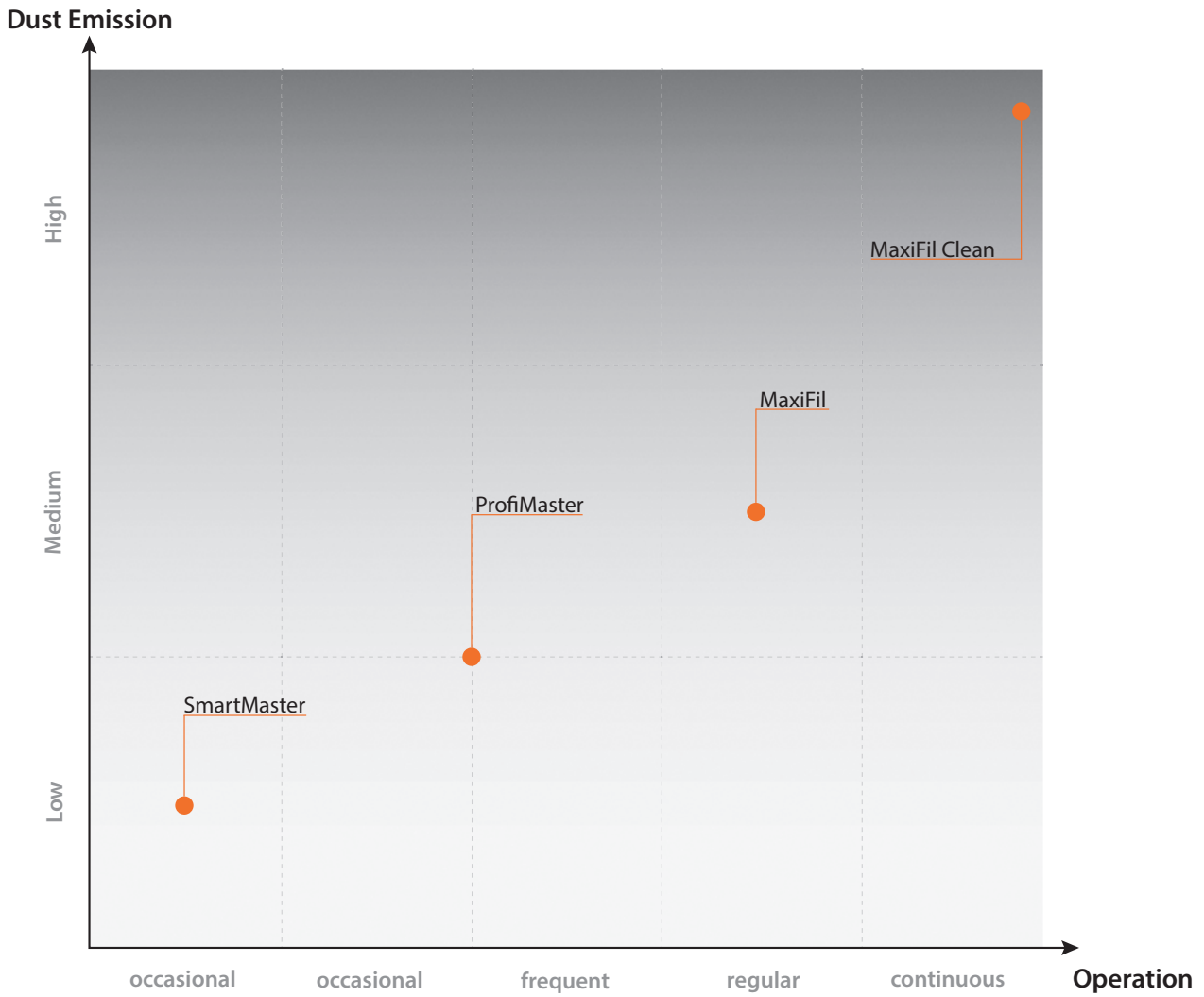
|   |    |
|---|----|
| Filter-Master XL  | 14 |
| MaxiFil Clean   | 15 |
| Product comparison mobile filter units with Cleaning filter | 17 |

### Accessories And Replacement Parts

|  |    |
|--|----|
| Accessories and spare parts for mobile units | 18 |
|--|----|



# Range of application for mobile filter units



|  | SmartMaster | Profimaster | MaxiFil | Filter-Master XL | MaxiFil Clean |
|--|-------------|-------------|---------|------------------|---------------|
| High-alloy steel<br>non-ferrous metal<br>(IFA) | ✓           | ✓           | ✓       | ✓                | ✓             |
| TIG welding<br>Chromium nickel steel           | ✓           | ✓           | ✓       | -                | -             |



## SmartMaster

- » Basic unit
- » Sporadic use



### Applications

- » Also suitable for high-alloy steel
- » Low amounts of smoke/dust
- » Occasional use

### Properties

- » W3/IFA certified
- » Handle with cable holder
- » Rotating exhaust hood

### Benefits

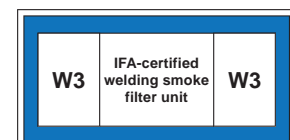
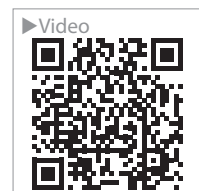
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Increased safety due to filter monitoring
- » Flexible use due to hose connection

### Technical Data

| Filter                 |                       |
|------------------------|-----------------------|
| Filter stages          | 3                     |
| Filter method          | Disposable filter     |
| Filter surface         | ca. 13 m <sup>2</sup> |
| Type of filter         | Filter cassette       |
| Filter material        | Non-woven fibre       |
| Filter efficiency      | > 99.5 %              |
| Filterclass            | E12                   |
| Additional filters     | Two pre-filters       |
| Basic data             |                       |
| Extraction capacity    | 950 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 705 x 655 x 900 mm    |
| Weight                 | 71 kg                 |
| Motor power            | 1.1 kW                |
| Power supply           | 1 x 230 V / 50 Hz     |
| Rated current          | 6.7 A                 |
| Noise level            | 72 dB(A)              |
| Additional information |                       |
| IFA-Certification      | W3-Approved           |
| Fan type               | Radial fan            |
| Exhaust arm type       | flexible exhaust arm  |

### Order Data

| Art. No. | Description                   |
|----------|-------------------------------|
| 64 300   | 2 m Arm, flexible exhaust arm |
| 64 330   | 3 m Arm, flexible exhaust arm |
| 64 310   | 3 m suction hose and nozzle   |
| 109 0452 | Pre-filter mats (10 per set)  |
| 109 0453 | Pre-filter cassette           |
| 109 0454 | Main filter 13 m <sup>2</sup> |



## ProfiMaster, one exhaust arm

### Applications

- » Also suitable for high-alloy steel
- » Low to medium levels of smoke and dust
- » Occasional to frequent use

### Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Rotating exhaust hood

### Benefits

- » Safe operation by rotation field control
- » Maintenance door allows easy filter change
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Increased safety due to filter monitoring

### Accessories

- » Automatic Start/Stop

- » Robust quality
- » High capacity filter

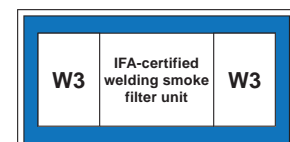


### Order Data

| Art. No.   | Description                   |
|------------|-------------------------------|
| 60 650 100 | 2 m Arm, flexible exhaust arm |
| 60 650 101 | 3 m Arm, flexible exhaust arm |
| 60 650 102 | 4 m Arm, flexible exhaust arm |
| 60 650 103 | 2 m Arm, rigid metal tube arm |
| 60 650 104 | 3 m Arm, rigid metal tube arm |
| 60 650 105 | 4 m Arm, rigid metal tube arm |
| 109 0033   | Pre-filter mats (10 per set)  |
| 109 0457   | Main filter 17 m <sup>2</sup> |

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Disposable filter       |
| Filter surface         | ca. 17 m <sup>2</sup>   |
| Type of filter         | Filter cassette         |
| Filter material        | Non-woven fibre         |
| Filter efficiency      | > 99.5 %                |
| Filterclass            | E12                     |
| Additional filters     | Pre-filter              |
| Basic data             |                         |
| Extraction capacity    | 1,100 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 785 x 730 x 950 mm      |
| Weight                 | 104 kg                  |
| Motor power            | 1.1 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 2.3 A                   |
| Noise level            | 72 dB(A)                |
| Additional information |                         |
| IFA-Certification      | W3-Approved             |
| Fan type               | Radial fan              |



## ProfiMaster, two exhaust arms

- » Two exhaust arms
- » High capacity filter



### Applications

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » For two work places

### Properties

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Rotating exhaust hood

### Benefits

- » Safe operation by rotation field control
- » Maintenance door allows easy filter change
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Increased safety due to filter monitoring
- » Space-saving solution due to two extraction arms
- » Possibility of working in two alternating places due to dampers in the extraction hood

### Accessories

- » Automatic Start/Stop

### Technical Data

| Filter                 |                           |
|------------------------|---------------------------|
| Filter stages          | 2                         |
| Filter method          | Disposable filter         |
| Filter surface         | ca. 17 m <sup>2</sup>     |
| Type of filter         | Filter cassette           |
| Filter material        | Non-woven fibre           |
| Filter efficiency      | > 99.5 %                  |
| Filterclass            | E12                       |
| Additional filters     | Pre-filter                |
| Basic data             |                           |
| Extraction capacity    | 2 x 700 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 785 x 730 x 950 mm        |
| Weight                 | 113.8 kg                  |
| Motor power            | 1.1 kW                    |
| Power supply           | 3 x 400 V / 50 Hz         |
| Rated current          | 2.3 A                     |
| Noise level            | 72 dB(A)                  |
| Additional information |                           |
| Fan type               | Radial fan                |

### Order Data

| Art. No.      | Description                   |
|---------------|-------------------------------|
| 60 650 DA 100 | 2 m Arm, flexible exhaust arm |
| 60 650 DA 101 | 3 m Arm, flexible exhaust arm |
| 60 650 DA 102 | 4 m Arm, flexible exhaust arm |
| 60 650 DA 103 | 2 m Arm, rigid metal tube arm |
| 60 650 DA 104 | 3 m Arm, rigid metal tube arm |
| 60 650 DA 105 | 4 m Arm, rigid metal tube arm |
| 109 0033      | Pre-filter mats (10 per set)  |
| 109 0457      | Main filter 17 m <sup>2</sup> |

**Applications**

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Regular use

**Properties**

- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Rotating exhaust hood

**Benefits**

- » Increased safety due to filter monitoring
- » Increased safety with safe filter change
- » Very economic due to long lasting high capacity filters

**Accessories**

- » Automatic Start/Stop
- » Workplace lighting incl. on/off switch at the hood

**Order Data**

| Art. No.   | Description                          |
|------------|--------------------------------------|
| 65 650 100 | 2 m Arm, flexible exhaust arm        |
| 65 650 101 | 3 m Arm, flexible exhaust arm        |
| 65 650 102 | 4 m Arm, flexible exhaust arm        |
| 65 650 103 | 2 m Arm, rigid metal tube arm        |
| 65 650 104 | 3 m Arm, rigid metal tube arm        |
| 65 650 105 | 4 m Arm, rigid metal tube arm        |
| 109 0472   | Pre-filter mats (10 per set)         |
| 109 0468   | Replacement filter 42 m <sup>2</sup> |

**MaxiFil - Activated charcoal filter**

| Art. No.      | Description   |
|---------------|---|
| 65 650 AK 100 | 2 m Arm, flexible exhaust arm                             |
| 65 650 AK 101 | 3 m Arm, flexible exhaust arm                             |
| 65 650 AK 102 | 4 m Arm, flexible exhaust arm                             |
| 65 650 AK 103 | 2 m Arm, rigid metal tube arm                             |
| 65 650 AK 104 | 3 m Arm, rigid metal tube arm                             |
| 65 650 AK 105 | 4 m Arm, rigid metal tube arm                             |
| 109 0472      | Pre-filter mats (10 per set)                              |
| 109 0504      | Replacement filter 34 m <sup>2</sup>                      |
| 109 0505      | Activated charcoal filter                                 |
| 109 0515      | Set Main filter and activated charcoal filter for MaxiFil |

**MaxiFil**

- » High filter capacity
- » Safe filter change



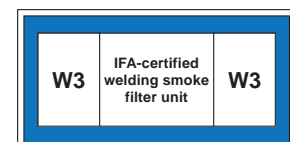
**Technical Data**

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Disposable filter       |
| Filter surface         | ca. 42 m <sup>2</sup>   |
| Type of filter         | SafeChangeFilter        |
| Filter material        | Non-woven polyester     |
| Filter efficiency      | > 99.5 %                |
| Filterclass            | E12                     |
| Additional filters     | Pre-filter              |
| Basic data             |                         |
| Extraction capacity    | 1,100 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 810 x 825 x 1,150 mm    |
| Weight                 | 124 kg                  |
| Motor power            | 1.5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.1 A                   |
| Noise level            | 70 dB(A)                |
| Additional information |                         |
| IFA-Certification      | W3-Approved             |
| Fan type               | Radial fan              |

Technical details only for MaxiFil without activated charcoal



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm



# Comparison Test

Mobile Filter Units with disposable Filter

## Test conditions

Welding current: 312 A  
Welding voltage: 30,3 V  
Wire diameter: 1,2 mm  
Wire feed: 11 m/min

Permanent reading: Welding time und welding wire usage until Filter change

|   | Model       | Recommended application | Filter surface    | Welding time in hours (Arc time) | Usage of welding wire (kg) | Filter life (Factor) |
|---|-------------|-------------------------|-------------------|----------------------------------|----------------------------|----------------------|
|   | SmartMaster | occasional              | 13 m <sup>2</sup> | 6 ¾                              | 40,7                       | 100 %                |
|  | ProfiMaster | frequent                | 17 m <sup>2</sup> | 13                               | 86                         | 210 %                |
|  | MaxiFil     | regular                 | 42 m <sup>2</sup> | 33 ¼                             | 218                        | 540 %                |

## Note

- » The results were established by extensive durability test on an automatic welding system
- » The lower the filter surface, the higher is the airspeed across the filter media. The particles form a solid filter cake and the flow through the filter media is restricted. The dust load capacity is very poor.
- » The higher the filter surface, the lower is the airspeed across the filter media. Particles form an open porous filter cake which acts as an additional filter. The air can flow through the filter cake and the filter media easily for a long time. The dust storage capacity is very high. This is the reason for the much longer filter life of the MaxiFil.

# Product Comparison

Mobile Filter Units with disposable Filter



SmartMaster

ProfiMaster

MaxiFil

## General Information

### Filter

|                    |                       |                       |                       |
|--------------------|-----------------------|-----------------------|-----------------------|
| Filter stages      | 3                     | 2                     | 2                     |
| Filter method      | Disposable filter     | Disposable filter     | Disposable filter     |
| Filter surface     | ca. 13 m <sup>2</sup> | ca. 17 m <sup>2</sup> | ca. 42 m <sup>2</sup> |
| Type of filter     | Filter cassette       | Filter cassette       | SafeChangeFilter      |
| Filter material    | Non-woven fibre       | Non-woven fibre       | Non-woven polyester   |
| Filter efficiency  | > 99.5%               | > 99.5%               | > 99.5%               |
| Filterclass        | E12                   | E12                   | E12                   |
| Additional filters | Two pre-filters       | Pre-filter            | Pre-filter            |

## Technical Data

### Basic data

|                        |                       |                         |                         |
|------------------------|-----------------------|-------------------------|-------------------------|
| Extraction capacity    | 950 m <sup>3</sup> /h | 1,100 m <sup>3</sup> /h | 1,100 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 705 x 655 x 900 mm    | 785 x 730 x 950 mm      | 810 x 825 x 1,150 mm    |
| Weight                 | 71 kg                 | 95 kg                   | 129 kg                  |
| Motor power            | 1.1 kW                | 1.1 kW                  | 1.5 kW                  |
| Power supply           | 1 x 230 V / 50 Hz     | 3 x 400 V / 50 Hz       | 3 x 400 V / 50 Hz       |
| Rated current          | 6.7 A                 | 2.3 A                   | 3.1 A                   |
| Noise level            | 72 dB(A)              | 72 dB(A)                | 70 dB(A)                |

### Additional information

|                                  |             |             |             |
|----------------------------------|-------------|-------------|-------------|
| IFA-Certification                | W3-Approved | W3-Approved | W3-Approved |
| Fan type                         | Radial fan  | Radial fan  | Radial fan  |
| Contamination-free filter change | -           | -           | Yes         |

## Order Data

| Description               | Art. No. | Art. No.   | Art. No.   |
|---------------------------|----------|------------|------------|
| Flexible exhaust arm, 2 m | 64 300   | 60 650 100 | 65 650 100 |
| Flexible exhaust arm, 3 m | 64 330   | 60 650 101 | 65 650 101 |
| Flexible exhaust arm, 4 m | -        | 60 650 102 | 65 650 102 |
| Rigid metal tube arm, 2 m | -        | 60 650 103 | 65 650 103 |
| Rigid metal tube arm, 3 m | -        | 60 650 104 | 65 650 104 |
| Rigid metal tube arm, 4 m | -        | 60 650 105 | 65 650 105 |

## Accessories

### Description

|  |   |     |     |
|--|---|-----|-----|
| Automatic Start/Stop                               | - | Yes | Yes |
| Workplace lighting incl. on/off switch at the hood | - | -   | Yes |



## Filter-Master XL

- » Basic unit
- » Automatic filter cleaning



### Applications

- » Also suitable for high-alloy steel
- » High levels of smoke and dust
- » Non-stop operation

### Benefits

- » High efficiency due to automatic filter cleaning
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Best health protection for employees by use of KemTex® ePTFE filter cartridge with surface filtration
- » Safe operation by rotation field control

### Properties

- » 360 degrees rotating exhaust hood with damper
- » W3/IFA certified
- » Automatic filter cleaning
- » KemTex® ePTFE filter cartridge
- » Rotation field control
- » Exhaust arm up to 4 m

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 1                       |
| Filter method          | Cleanable filter        |
| Filter cleaning method | Rotating nozzle         |
| Filter surface         | ca. 10 m <sup>2</sup>   |
| Type of filter         | Filter cartridge        |
| Filter material        | ePTFE-membrane          |
| Filter efficiency      | > 99.9 %                |
| Dust classification    | M                       |
| Basic data             |                         |
| Extraction capacity    | 1,000 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 655 x 655 x 1,460 mm    |
| Weight                 | 155 kg                  |
| Motor power            | 1,5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.2 A                   |
| Noise level            | 69 dB(A)                |

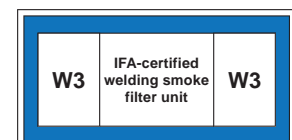
| Additional information |                      |
|------------------------|----------------------|
| IFA-Certification      | W3-Approved          |
| Fan type               | Radial fan           |
| Compressed air supply  | 5 - 6 bar            |
| Exhaust arm type       | flexible exhaust arm |

### Order Data

| Art. No.   | Description   |
|------------|---|
| 62 100 100 | 2 m Arm, flexible exhaust arm                             |
| 62 100 101 | 3 m Arm, flexible exhaust arm                             |
| 62 100 102 | 4 m Arm, flexible exhaust arm                             |
| 109 0438   | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm



**Applications**

- » Also suitable for high-alloy steel
- » High levels of smoke and dust
- » Non-stop operation

**Benefits**

- » Safe operation by rotation field control
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Increased safety due to filter monitoring
- » Increased safety by means of automatic dust removal in cartridges, contamination-free
- » Very economic due to long lasting high capacity filters

**Properties**

- » Automatic filter cleaning
- » Exhaust arm up to 4 m
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Cleanable filter
- » Automatic dust removal - contamination-free
- » Rotating exhaust hood
- » Spark separator

**Variants**

- » Various arm lengths and versions
- » Other voltages

**Accessories**

- » Automatic Start/Stop
- » Workplace lighting incl. on/off switch at the hood

**Order Data**

| Art. No.   | Description   |
|------------|---|
| 67 150 100 | 2 m Arm, flexible exhaust arm                             |
| 67 150 101 | 3 m Arm, flexible exhaust arm                             |
| 67 150 102 | 4 m Arm, flexible exhaust arm                             |
| 67 150 103 | 2 m Arm, rigid metal tube arm                             |
| 67 150 104 | 3 m Arm, rigid metal tube arm                             |
| 67 150 105 | 4 m Arm, rigid metal tube arm                             |
| 119 0688   | Dust collection cartridge (Set of 4)                      |
| 109 0469   | 15 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |

**MaxiFil Clean**

- » Contamination free dust disposal
- » Automatic filter cleaning

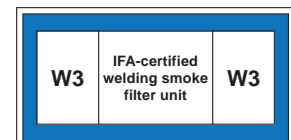
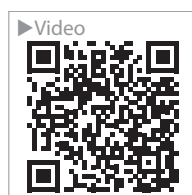


**Technical Data**

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Cleanable filter        |
| Filter cleaning method | Rotating nozzle         |
| Filter surface         | ca. 15 m <sup>2</sup>   |
| Type of filter         | Filter cartridge        |
| Filter material        | ePTFE-membrane          |
| Filter efficiency      | > 99.9 %                |
| Dust classification    | M                       |
| Additional filters     | Cyclone pre-filter      |
| Basic data             |                         |
| Extraction capacity    | 1,100 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 810 x 940 x 1,350 mm    |
| Weight                 | 206 kg                  |
| Motor power            | 1.5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.2 A                   |
| Noise level            | 72 dB(A)                |
| Additional information |                         |
| IFA-Certification      | W3-Approved             |
| Fan type               | Radial fan              |
| Compressed air supply  | 5 - 6 bar               |



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm





# Product Comparison

Mobile Filter Units with cleanable Filter



Filter Master XL



MaxiFil Clean

## General Information

### Filter

|                        |                       |                       |
|------------------------|-----------------------|-----------------------|
| Filter stages          | 1                     | 2                     |
| Filter method          | Cleanable filter      | Cleanable filter      |
| Filter cleaning method | Rotating nozzle       | Rotating nozzle       |
| Filter surface         | ca. 10 m <sup>2</sup> | ca. 15 m <sup>2</sup> |
| Type of filter         | Filter cartridge      | Filter cartridge      |
| Filter material        | ePTFE-membrane        | ePTFE-membrane        |
| Filter efficiency      | > 99,9%               | > 99,9%               |
| Filterclass            | M                     | M                     |
| Additional filters     | -                     | Cyclone pre-filter    |

## Technical Data

### Basic data

|                        |                         |                         |
|------------------------|-------------------------|-------------------------|
| Extraction capacity    | 1,000 m <sup>3</sup> /h | 1,000 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 655 x 655 x 1,460 mm    | 810 x 940 x 1,350 mm    |
| Weight                 | 135 kg                  | 185 kg                  |
| Motor power            | 1.5 kW                  | 1.5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       | 3 x 400 V / 50 Hz       |
| Rated current          | 3.2 A                   | 3.2 A                   |
| Noise level            | 69 dB(A)                | 72 dB(A)                |

### Additional information

|                                  |             |             |
|----------------------------------|-------------|-------------|
| IFA-Certification                | W3-Approved | W3-Approved |
| Fan type                         | Radial fan  | Radial fan  |
| Compressed air supply            | 5 - 6 bar   | 5 - 6 bar   |
| Quantity of extraction arms      | 1           | 1           |
| Contamination-free filter change | -           | Yes         |

## Order Data

| Description               | Art.-Nr.   | Art.-Nr.   |
|---------------------------|------------|------------|
| Flexible exhaust arm, 2 m | 62 100 100 | 67 150 100 |
| Flexible exhaust arm, 3 m | 62 100 101 | 67 150 101 |
| Flexible exhaust arm, 4 m | 62 100 102 | 67 150 102 |
| Rigid metal tube arm, 2 m | -          | 67 150 103 |
| Rigid metal tube arm, 3 m | -          | 67 150 104 |
| Rigid metal tube arm, 4 m | -          | 67 150 105 |

## Accessories

### Description

|  |   |     |
|--|---|-----|
| Automatic Start/Stop                               | - | Yes |
| Workplace lighting incl. on/off switch at the hood | - | Yes |





### Capture hood with lighting

For MaxiFil, MaxiFil Clean

| Art. No.   | Description   |
|------------|---|
| 79 103 040 | Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units) |
| 79 103 045 | Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)  |



### Capture hood with lighting

For Welding smoke filter, Electrostatic filter, Cartridge filter

| Art. No.   | Description  |
|------------|--|
| 79 103 046 | Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units) |
| 79 103 047 | Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)   |
| 79 103 035 | Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)           |
| 79 103 036 | Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)             |



### Automatic start/stop

| Art. No.   | Description   |
|------------|---|
| 94 102 702 | For MaxiFil, MaxiFil Clean: Automatic start/stop sensor, 5 m connection cable for single arm filter units                                 |
| 94 102 781 | For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units                                |
| 94 102 782 | For ProfiMaster: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units                                  |
| 94 102 770 | For Cartridge Filter Unit: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units                      |
| 94 102 771 | For Cartridge Filter Unit: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units                        |
| 94 102 750 | For Welding smoke filter, Electrostatic filter: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units |
| 94 102 751 | For Welding smoke filter, Electrostatic filter: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units   |

**Replacement hood**

Exhaust hood as replacement for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

| Art. No.  | Description  |
|-----------|--------------|
| 79 103 00 | Exhaust hood |



**Protective mesh**

Replacement mesh for the KEMPER exhaust hood

| Art. No. | Description                      |
|----------|----------------------------------|
| 127 0091 | Protection mesh for exhaust hood |



**Replacement hose for flexible exhaust arm**

Replacement hoses for exhaust arms and telescopic exhaust arms. Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No. | Description                    |
|----------|--------------------------------|
| 114 0348 | For exhaust arms 2,0 m, Ø150mm |
| 114 0349 | For exhaust arms 3,0 m, Ø150mm |
| 114 0350 | For exhaust arms 4,0 m, Ø150mm |



**Replacement hoses for rigid metal tube arms**

Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No.  | Description                       |
|-----------|-----------------------------------|
| 79 103 40 | Set of replacement hoses (3 pcs.) |
| 79 103 10 | Set of HT hoses (3 pcs.)          |





### Spare filter for SmartMaster

| Art. No. | Description                   |
|----------|-------------------------------|
| 109 0454 | Main filter 13 m <sup>2</sup> |
| 109 0452 | Pre-filter mats (10 per set)  |
| 109 0453 | Pre-filter cassette           |



### Spare filter for ProfiMaster

| Art. No. | Description                   |
|----------|-------------------------------|
| 109 0457 | Main filter 17 m <sup>2</sup> |
| 109 0033 | Pre-filter mats (10 per set)  |



### Spare filter for MaxiFil

| Art. No. | Description                          |
|----------|--------------------------------------|
| 109 0468 | Replacement filter 42 m <sup>2</sup> |
| 109 0472 | Pre-filter mats (10 per set)         |



### Replacement filter for MaxiFil charcoal

| Art. No. | Description   |
|----------|---|
| 109 0515 | Set Main filter and activated charcoal filter for MaxiFil |
| 109 0504 | Replacement filter 34 m <sup>2</sup>                      |
| 109 0505 | Activated charcoal filter                                 |
| 109 0472 | Pre-filter mats (10 per set)                              |



### Spare filter for Filter-Master XL

| Art. No. | Description   |
|----------|---|
| 109 0438 | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |



### Spare filter for MaxiFil Clean

| Art. No. | Description   |
|----------|---|
| 119 0688 | Dust collection cartridge (Set of 4)                      |
| 109 0469 | 15 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |

## Spare filter for Filter-Master

Type: 64 100 ...

| Art. No. | Description                    |
|----------|--------------------------------|
| 21 400   | Spare filter for Filter-Master |
| 109 0033 | Pre-filter mats (10 per set)   |



## Spare filter for Welding Smoke Filter

Type: 84 100 ..., 84 200 ..., 91 550 ...

| Art. No. | Description                  |
|----------|------------------------------|
| 109 0010 | Main filter                  |
| 109 0033 | Pre-filter mats (10 per set) |



## Replacement filter for welding fumes with charcoal

Type: 84 101 ..., 84 201 ...

| Art. No. | Description               |
|----------|---------------------------|
| 109 0005 | Activated charcoal filter |



## Spare filter for Welding Smoke Filter IFA

Type: 84 150 ...

| Art. No. | Description                  |
|----------|------------------------------|
| 109 0227 | Main filter                  |
| 109 0033 | Pre-filter mats (10 per set) |



## Spare filter for Electrostatic Filter

Type: 86 100 ..., 86 200 ...

| Art. No.      | Description                               |
|---------------|---|
| 109 0400      | Filter cell for Electrostatic Filter unit |
| 109 0314      | Pre and after filter set (10 of each)     |
| 91 450 000 09 | Ionizations wires (set of 5 pieces)       |



## Spare filter for Cartridge Filter

Type: 82 100 ..., 82 200 ..., 82 150 ...

| Art. No. | Description  |
|----------|--|
| 109 0434 | 4 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |





## Extraction Systems - Central And Stationary

### Overview

|  |    |
|--|----|
| Areas of application for stationary filter units | 24 |
| Selection criteria for stationary filter units   | 25 |

### Stationary - Disposable Filter

|                    |    |
|--------------------|----|
| MaxiFil stationary | 26 |
| Filter-Cell        | 27 |
| Filter-Table       | 28 |

### Stationary - Cleanable Filter

|                              |    |
|------------------------------|----|
| Cartridge Filter, Stationary | 29 |
| Filter-Cell XL               | 30 |

### Stationary - Accessories And Spare Parts

|  |    |
|--|----|
| Accessories and spare parts for stationary units | 31 |
|--|----|

### Central Extraction and Filtration Units

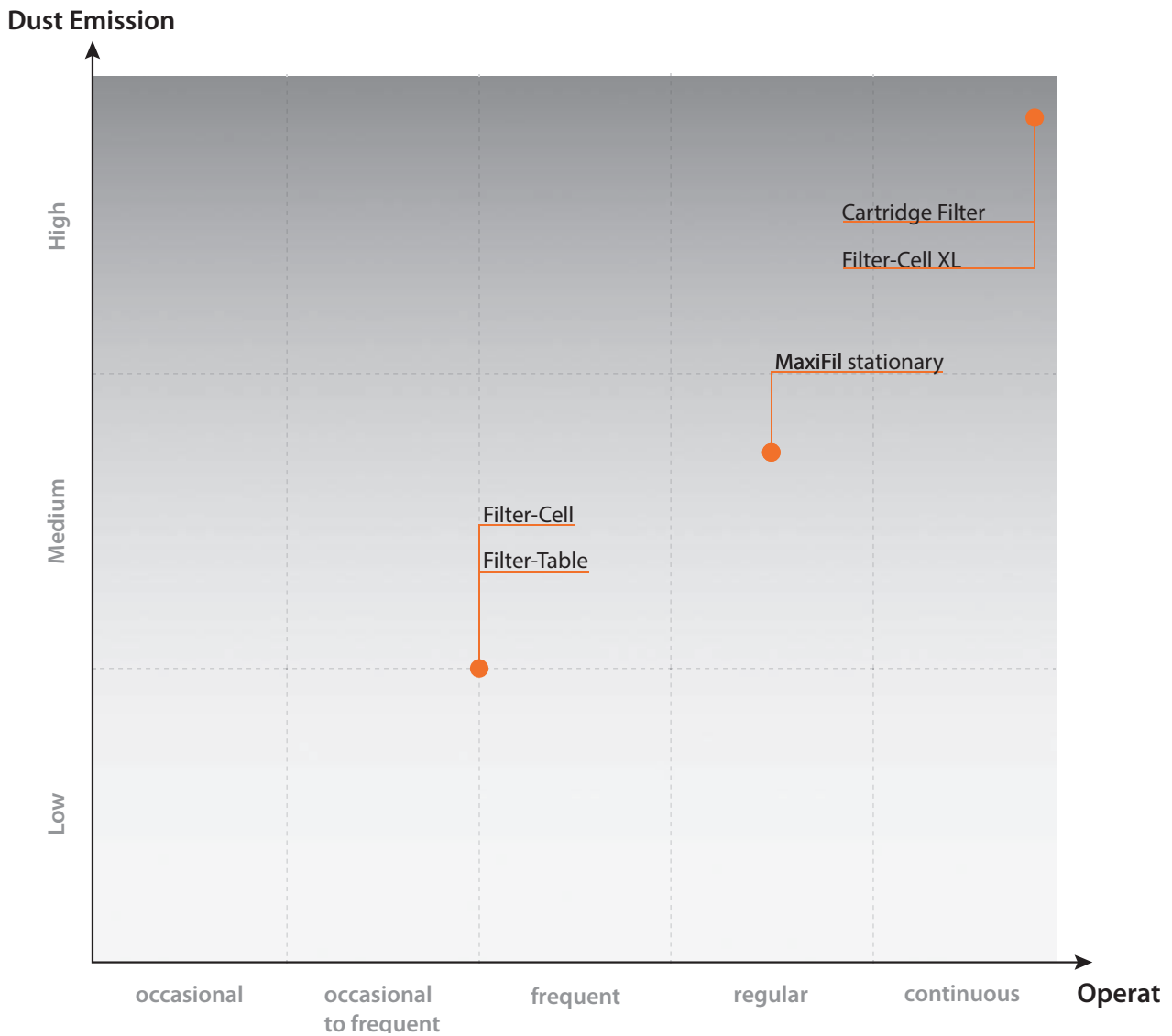
|                                   |    |
|-----------------------------------|----|
| System 8000                       | 40 |
| System 9000                       | 41 |
| PlasmaFil Compact/WeldFil Compact | 42 |

### Accessoires

|                              |    |
|------------------------------|----|
| Sparktrap                    | 44 |
| DustEvac Dust Removal System | 45 |



# Range of application for stationary filter units



|  | Filter-Cell | Filter-Table | Cartridge Filter | Filter-Cell XL | MaxiFil stationary |
|--|-------------|--------------|------------------|----------------|--------------------|
| High-alloy steel<br>non-ferrous metal<br>(IFA) | ✓*          | ✓*           | ✓*               | ✓*             | ✓*                 |
| TIG welding<br>Chromium nickel steel           | ✓*          | ✓*           | -                | -              | ✓*                 |

\* Units can be equipped with exhaust air connector.

# Selection criteria for stationary filter units

## According to application

| Emission rate   | Material                                     | Use                         |  |  |  |
|---|--|-----------------------------|--|--|--|
| Application example   |  | Occasional                  | Occasional to frequent                                   | Regular  | Continuous   |
| Class I & II<br>< 1 - 2 mg/s<br>submerged arc welding<br>TIG welding<br>Laser welding | <b>Non-alloy<br/>Low-alloy</b>               | Filter-Table<br>Filter-Cell | Filter-Table<br>Filter-Cell                              | Filter-Table<br>Filter-Cell<br>MaxiFil stationary        | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary       |
|   | <b>Aluminium</b>                             | Filter-Table<br>Filter-Cell | Filter-Table<br>Filter-Cell                              | Filter-Table<br>Filter-Cell<br>MaxiFil stationary        | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary       |
|   | <b>High-alloy<br/>non-ferrous metal</b> *2   | Filter-Table<br>Filter-Cell | Filter-Table<br>Filter-Cell                              | Filter-Table<br>Filter-Cell<br>MaxiFil stationary        | Cartridge Filter *1<br>Filter-Cell XL *1<br>MaxiFil stationary |
| Class III<br>2-25mg/s<br>Electric arc welding<br>MIG/MAG welding                      | <b>Non-alloy<br/>Low-alloy<br/>Aluminium</b> | Filter-Table<br>Filter-Cell | Filter-Table<br>Filter-Cell                              | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary | Cartridge Filter<br>Filter-Cell XL                             |
|   | <b>High-Alloy<br/>non-ferrous metal</b> *2   | Filter-Table<br>Filter-Cell | Filter-Table<br>Filter-Cell                              | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary | Cartridge Filter<br>Filter-Cell XL                             |
| Class IV<br>> 25mg/s<br>Flux-cored wire welding                                       | <b>non-alloy<br/>Low alloy<br/>Aluminium</b> | Filter-Table<br>Filter-Cell | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary | Cartridge Filter<br>Filter-Cell XL                       | Cartridge Filter<br>Filter-Cell XL                             |
|   | <b>high alloy<br/>non-ferrous metal</b> *2   | Filter-Table<br>Filter-Cell | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary | Cartridge Filter<br>Filter-Cell XL<br>MaxiFil stationary       |

Recommendations based on European norms and expected change or cleaning intervals of the filters.

\*1 except TIG welding of chromium-nickel-steel

\*2 Units can be operated with outgoing air duct



## MaxiFil stationary

- » High filter capacity
- » Safe filter change



### Order Data

| Art. No.   | Description                          |
|------------|--------------------------------------|
| 65 850 100 | 2 m Arm, flexible exhaust arm        |
| 65 850 101 | 3 m Arm, flexible exhaust arm        |
| 65 850 102 | 4 m Arm, flexible exhaust arm        |
| 65 850 103 | 5 m Arm, flexible exhaust arm        |
| 65 850 104 | 6 m Arm, flexible exhaust arm        |
| 65 850 105 | 7 m Arm, flexible exhaust arm        |
| 65 850 106 | 2 m Arm, rigid metal tube arm        |
| 65 850 107 | 3 m Arm, rigid metal tube arm        |
| 65 850 108 | 4 m Arm, rigid metal tube arm        |
| 65 850 109 | 5 m Arm, rigid metal tube arm        |
| 65 850 110 | 6 m Arm, rigid metal tube arm        |
| 65 850 111 | 7 m Arm, rigid metal tube arm        |
| 109 0472   | Pre-filter mats (10 per set)         |
| 109 0468   | Replacement filter 42 m <sup>2</sup> |

### Applications

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Regular use

### Benefits

- » Safe operation by rotation field control
- » Exhaust arm requires less adjustment due to exhaust hood design
- » Increased safety due to filter monitoring
- » Increased safety with safe filter change
- » Very economic due to long lasting high capacity filters

### Properties

- » 360 degrees rotating exhaust hood with damper
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Arm up to 10 m (with boom)
- » Silencer
- » Control box

### Scope of supply

- » Unit
- » Fan
- » Silencer
- » Control box
- » Exhaust arm with hood

### Accessories

- » Automatic Start/Stop
- » Workplace lighting incl. on/off switch at the hood

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Disposable filter       |
| Filter surface         | ca. 42 m <sup>2</sup>   |
| Type of filter         | SafeChangeFilter        |
| Filter material        | Non-woven polyester     |
| Filter efficiency      | > 99.5 %                |
| Filterclass            | E12                     |
| Additional filters     | Pre-filter              |
| Basic data             |                         |
| Extraction capacity    | 1,000 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 771 x 776 x 1,197 mm    |
| Weight                 | 125 kg                  |
| Motor power            | 1.5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.1 A                   |
| Noise level            | 72 dB(A)                |
| Additional information |                         |
| IFA-Certification      | Certification submitted |
| Fan type               | Radial fan              |



**Applications**

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » For exhaust hoods, extraction tables and robot cells

**Benefits**

- » Space-saving due to compact design
- » Easy installation since unit is delivered ready to plug in ("plug and play")
- » Maintenance door allows easy filter change
- » Increased safety due to filter monitoring
- » Service life extension by selecting the optional bag filter

**Properties**

- » Filter monitoring
- » 250 mm duct connector
- » Height-adjustable feet
- » Activated charcoal filter (optional)

**Filter-Cell**

- » Compact
- » Plug and play installation

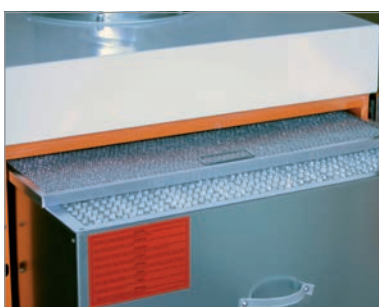


**Technical Data**

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Disposable filter       |
| Filter surface         | ca. 15.8 m <sup>2</sup> |
| Type of filter         | Filter cassette         |
| Filter material        | Non-woven fibre         |
| Filterclass            | F9                      |
| Additional filters     | Pre-filter (aluminum)   |
| Basic data             |                         |
| Extraction capacity    | 1,400 m <sup>3</sup> /h |
| Motor power            | 1,5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.2 A                   |
| Noise level            | 71 dB(A)                |
| Additional information |                         |
| Fan type               | Radial fan              |

**Order Data**

| Art. No.        | Description              |
|-----------------|--------------------------|
| <b>60 100</b>   | with bag filter          |
| <b>60 103</b>   | with aluminum pre-filter |
| <b>109 0013</b> | Aluminum pre-filter      |
| <b>21 102</b>   | Bag filter               |
| <b>109 0010</b> | Main filter              |
| <b>109 0345</b> | Activated carbon filter  |



60 103



## Filter-Table

- » Work bench with filter unit
- » Large working area



### Applications

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » Welding and grinding

### Benefits

- » Maintenance door allows easy filter change
- » Minimized fire risk due to effective spark trap
- » Downdraft extraction throughout the whole working area
- » Wide range of applications due to large working area of 1,200 x 800 mm

### Properties

- » Spark separator
- » Large, robust material support
- » Activated charcoal filter (optional)

### Order Data

| Art. No.    | Description                          |
|-------------|--------------------------------------|
| 950 400 001 | Welding Fume Extraction Filter-Table |
| 109 0013    | Aluminum pre-filter                  |
| 109 0010    | Main filter                          |
| 109 0345    | Activated carbon filter              |

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 2                       |
| Filter method          | Disposable filter       |
| Filter surface         | ca. 15.8 m <sup>2</sup> |
| Type of filter         | Filter cassette         |
| Filter material        | Non-woven fibre         |
| Filterclass            | F9                      |
| Additional filters     | Pre-filter (aluminum)   |
| Basic data             |                         |
| Extraction capacity    | 1,400 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 1,200 x 800 x 1,340 mm  |
| Weight                 | 153 kg                  |
| Motor power            | 1,5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.2 A                   |
| Noise level            | 71 dB(A)                |
| Additional information |                         |
| Fan type               | Radial fan              |

**Applications**

- » High levels of smoke and dust
- » Non-stop operation
- » Two exhaust arms available

**Benefits**

- » High efficiency due to automatic filter cleaning
- » Less need to adjust the exhaust arm due to exhaust hood design
- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » Low air consumption due to differential pressure-controlled cleaning

**Properties**

- » 360 degrees rotating exhaust hood with damper
- » Automatic filter cleaning, pressure-controlled
- » KemTex® ePTFE filter cartridges
- » Automatic Start/Stop (optional)
- » Lighting in the hood (optional)
- » Arm up to 10 m (with boom)
- » Available with two arms
- » Silencer
- » Control box

**Scope of supply**

- » Unit
- » Silencer
- » Control box
- » Exhaust arm with hood

**Accessories**

- » Automatic Start/Stop
- » Workplace lighting incl. on/off switch at the hood

**Technical Data**

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 1                       |
| Filter method          | Cleanable filter        |
| Filter cleaning method | Rotating nozzle         |
| Filter surface         | ca. 8 m <sup>2</sup>    |
| Type of filter         | Filter cartridge        |
| Filter material        | ePTFE-membrane          |
| Filter efficiency      | > 99.9 %                |
| Dust classification    | M                       |
| Basic data             |                         |
| Extraction capacity    | 1,200 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 655 x 655 x 1,355 mm    |
| Weight                 | 146 kg                  |
| Motor power            | 1,5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 3.5 A                   |
| Noise level            | 71 dB(A)                |
| Additional information |                         |
| Fan type               | Radial fan              |
| Compressed air supply  | 5 - 6 bar               |

**Cartridge Filter, Stationary**

- » Automatic filter cleaning
- » Non-stop operation



**Single arm unit**

| Art. No.   | Description                   |
|------------|-------------------------------|
| 83 100 100 | 2 m Arm, flexible exhaust arm |
| 83 100 101 | 3 m Arm, flexible exhaust arm |
| 83 100 102 | 4 m Arm, flexible exhaust arm |
| 83 100 103 | 5 m Arm, flexible exhaust arm |
| 83 100 104 | 6 m Arm, flexible exhaust arm |
| 83 100 105 | 7 m Arm, flexible exhaust arm |
| 83 100 106 | 2 m Arm, rigid metal tube arm |
| 83 100 107 | 3 m Arm, rigid metal tube arm |
| 83 100 108 | 4 m Arm, rigid metal tube arm |
| 83 100 109 | 5m Arm, rigid metal tube arm  |
| 83 100 110 | 6 m Arm, rigid metal tube arm |
| 83 100 111 | 7m Arm, rigid metal tube arm  |

**Twin arm unit**

| Art. No.   | Description                   |
|------------|-------------------------------|
| 83 200 100 | 2 m Arm, flexible exhaust arm |
| 83 200 101 | 3 m Arm, flexible exhaust arm |
| 83 200 102 | 4 m Arm, flexible exhaust arm |
| 83 200 103 | 5 m Arm, flexible exhaust arm |
| 83 200 104 | 6 m Arm, flexible exhaust arm |
| 83 200 105 | 7 m Arm, flexible exhaust arm |

also available in rigid metal tube arm version



## Filter-Cell XL

- » Compact
- » Automatic filter cleaning



### Applications

- » High levels of smoke and dust
- » Non-stop operation
- » For exhaust hoods, extraction tables and robot cells

### Benefits

- » High efficiency due to automatic filter cleaning
- » Space-saving due to compact design
- » Easy installation since unit is delivered ready to plug in ("plug and play")
- » Best health protection for employees by use of KemTex® ePTFE filter cartridge with surface filtration
- » Safe operation by rotation field control

### Properties

- » 160mm duct connection
- » Automatic filter cleaning
- » KemTex® ePTFE filter cartridge
- » Height-adjustable feet
- » Rotation field control

### Order Data

| Art. No. | Description   |
|----------|---|
| 60 200   | Filter-Cell XL Extraction Filter Unit                     |
| 109 0438 | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter method          | Cleanable filter        |
| Filter cleaning method | Rotating nozzle         |
| Filter surface         | ca. 10 m <sup>2</sup>   |
| Type of filter         | Filter cartridge        |
| Filter material        | ePTFE-membrane          |
| Filter efficiency      | > 99.9 %                |
| Dust classification    | M                       |
| Basic data             |                         |
| Extraction capacity    | 1,000 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 655 x 655 x 1,460 mm    |
| Weight                 | 155 kg                  |
| Motor power            | 1,5 kW                  |
| Power supply           | 3 x 400 V / 50 Hz       |
| Noise level            | 69 dB(A)                |
| Additional information |                         |
| Fan type               | Radial fan              |



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm



## Capture hood with lighting

For MaxiFil stationary

| Art. No.   | Description   |
|------------|---|
| 79 103 040 | Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units) |
| 79 103 045 | Lighting kit incl. exhaust hood, 2 x 5 W LED lights (retrofit for existing filter units)  |



## Replacement hood

For exhaust sets

| Art. No.   | Description   |
|------------|---|
| 79 103 048 | Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (original fitted)          |
| 79 103 034 | Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (retrofit for exhaust arm) |



## Replacement hood

Exhaust hood as replacement for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

| Art. No.   | Description   |
|------------|---|
| 79 103 00  | Exhaust hood  |
| 79 103 040 | Lighting kit incl. exhaust hood, 2 x 5 W LED lights (original equipment for filter units) |



## Capture hood with lighting

For Welding smoke filter, Electrostatic filter, Cartridge filter

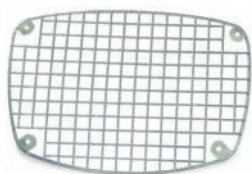
| Art. No.   | Description  |
|------------|--|
| 79 103 046 | Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units) |
| 79 103 047 | Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (original equipment for filter units)   |
| 79 103 035 | Lighting kit for single arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)           |
| 79 103 036 | Lighting kit for twin arm filter units with exhaust hood 2 x 5 W LED lights, Trafo-Box (retrofit for filter units)             |





### Automatic start/stop

| Art. No.   | Description   |
|------------|---|
| 94 102 702 | For MaxiFil, MaxiFil Clean: Automatic start/stop sensor, 5 m connection cable for single arm filter units                                 |
| 94 102 770 | For Cartridge Filter Unit: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units                      |
| 94 102 771 | For Cartridge Filter Unit: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units                        |
| 94 102 750 | For Welding smoke filter, Electrostatic filter: Automatic start/stop sensor, 5 m connection cable and adapter for single arm filter units |
| 94 102 751 | For Welding smoke filter, Electrostatic filter: Automatic start/stop sensor, 5 m connection cable and adapter for twin arm filter units   |



### Protective mesh

Replacement mesh for the KEMPER exhaust hood

| Art. No. | Description                      |
|----------|----------------------------------|
| 127 0091 | Protection mesh for exhaust hood |



### Replacement hose for flexible exhaust arm

Replacement hoses for exhaust arms and telescopic exhaust arms. Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No. | Description                    |
|----------|--------------------------------|
| 114 0348 | For exhaust arms 2,0 m, Ø150mm |
| 114 0349 | For exhaust arms 3,0 m, Ø150mm |
| 114 0350 | For exhaust arms 4,0 m, Ø150mm |



### Replacement hoses for rigid metal tube arms

Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No.  | Description                       |
|-----------|-----------------------------------|
| 79 103 40 | Set of replacement hoses (3 pcs.) |
| 79 103 10 | Set of HT hoses (3 pcs.)          |

**Replacement filter for MaxiFil stationary**

| Art. No. | Description                          |
|----------|--------------------------------------|
| 109 0517 | Replacement filter 42 m <sup>2</sup> |



**Spare filter for Filter-Cell**

| Art. No. | Description         |
|----------|---------------------|
| 21 102   | Bag filter          |
| 109 0010 | Main filter         |
| 109 0013 | Aluminum pre-filter |



**Spare filter for Filter-Table**

| Art. No. | Description         |
|----------|---------------------|
| 109 0010 | Main filter         |
| 109 0013 | Aluminum pre-filter |



**Spare filter for Cartridge Filter**

| Art. No. | Description  |
|----------|--|
| 109 0434 | 4 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |



**Spare filter for Filter-Cell XL**

| Art. No. | Description   |
|----------|---|
| 109 0438 | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |





### Replacement filter for welding fumes filter stationary

Type: 85 100 ..., 85 200 ..., 85 300 ..., 91 560 ...

| Art. No.        | Description                  |
|-----------------|------------------------------|
| <b>109 0010</b> | Main filter                  |
| <b>109 0033</b> | Pre-filter mats (10 per set) |



### Replacement filter for welding fumes stationary charcoal

Type: 85 101 ..., 85 200 ..., 85 300 ...

| Art. No.        | Description               |
|-----------------|---------------------------|
| <b>109 0005</b> | Activated charcoal filter |



### Replacement filter for electric filter stationary

Type: 87 100 ..., 87 200 ...

| Art. No.             | Description                               |
|----------------------|---|
| <b>109 0400</b>      | Filter cell for Electrostatic Filter unit |
| <b>109 0314</b>      | Pre and after filter set (10 of each)     |
| <b>91 450 000 09</b> | Ionizations wires (set of 5 pieces)       |

## » Extraction and Filter Systems for the construction of Central Extraction Systems



### Features

- » The Systems 8000 and 9000 are ideally suited for setting up central extraction systems
- » Ideal for welding shops, grinding shops, training centres, robot production lines, etc.
- » Connection via duct systems with capturing devices from the KEMPER range
  - Exhaust arms and telescopic arms
  - Welding and grinding tables
  - Training welding tables
  - Extraction table for workshops
  - Exhaust hoods, e.g. for robots
  - Extraction booths, e.g. for automated processes
- » Wide range of accessories and lots of special equipment, such as
  - Spark separator, spark detector and spark extinguisher
  - Automated, demand-based suction power control
  - External control and monitoring

### Benefits

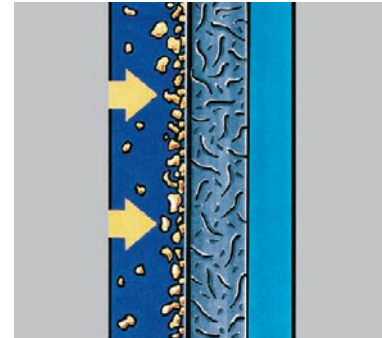
- » Time savings in planning and construction due to modular system structure and complete product range from KEMPER
- » Legal and operational security thanks to careful layout by KEMPER specialists
- » Optimum adaptation to conditions due to the large product range and diversity of types of systems and special equipment
- » Huge savings in energy and follow-up costs thanks to automatic suction power control



# » Outstanding filter technology

## Surface filtration

- » KemTex® ePTFE filter medium with laminated membrane layer
- » Unique microstructure composed of millions of randomly arranged fine fibres
- » Optimal filter cleaning properties as opposed to depth filtration
- » Separation even of ultrafine nanoparticles of up to 100 nanometres



## Ideal for welding and cutting

Study by the AWS (American Welding Society) on particle distribution:

- » 98.9% of the dust particles generated are smaller than 400 nanometres
- » Ultrafine nanoparticles can penetrate into human cells
- » KemTex ePTFE membrane filters already have high separation in the nanoscale range

| Particles Ø in µm | <0,2 | <0,4 | <0,6 | <0,8 | <1,0 | >1,0 |
|-------------------|------|------|------|------|------|------|
| Quantity          | 800  | 251  | 9    | 0    | 1    | 2    |
| % of the quantity | 75,3 | 23,6 | 0,9  | 0    | 0,1  | 0,2  |
| % of the mass     | 15,9 | 38,7 | 7,5  | 0    | 8,2  | 29,7 |

Source: Spiegel-Ciobanu (AWS-study)

## Filter shapes

Filter plates or filter cartridges are used depending on the filter system. The same high-quality filter material is always used.

### Filter plates

- » Filter plates allow optimal use of the down-flow principle
- » Construction and welding of the filter pleats prevents the pleats choking up
- » 100% of the filter surface area is always available
- » Filter cleaning without moving parts using compressed air and inlet nozzles
- » Significantly longer service life of the filter elements and high cost savings



### Filter cartridges

- » Less dust deposition due to being vertically installed
- » Movable filter pleats help the filter cleaning process
- » Uniform and gentle cleaning using rotating nozzle
- » Very long service life of the filter elements and rotating nozzles



# » Filter plates - Filter cartridges



## Filter plates

### Properties

- » Improved air flow due to down-flow principle
- » Robustly welded filter pleats that do not choke up
- » Filter cleaning without moving parts possible
- » Clean-air side inlet nozzles for compressed air
- » Horizontal installation in filter system

### Benefits

- » No restriction over time because 100% of the filter surface is permanently available
- » Drastic reduction in costs resulting from significantly longer filter life
- » Less wear as no moving parts are required
- » Savings due to less compressed air consumption and lower energy costs
- » Time savings by ease of changing the filter plates due to horizontal installation

### Automatic cleaning

- » Pressure-controlled breath-responsive cleaning by compressed air
- » A blast of compressed air from the integrated compressed air tank flows directly into the filter media
- » No need for rotating nozzles due to filter design
- » Significantly less wear since no moving parts are required



## Filter cartridges

### Properties

- » Large pleat distance while having the same filter area per cartridge
- » Flexible filter pleats support filter cleaning
- » Even and gentle cleaning using rotating nozzle
- » Vertical installation in filter systems

### Benefits

- » Less choking up of the filter pleats due to larger distance between pleats
- » Very long service life of the filter elements and rotating nozzles
- » Cost savings through optimal cleaning properties
- » Less dust deposition due to being vertically installed

### Automatic cleaning

- » Pressure-controlled breath-responsive cleaning by compressed air
- » A blast of compressed air from the integrated compressed air tank sets the rotating nozzle in motion
- » The rotational movement of the rotating nozzle creates an even flow
- » This achieves optimal cleaning performance of the KemTex® ePTFE filter cartridges



# » KEMPER Extraction and Filter Systems

## System 8000 and 9000 in detail

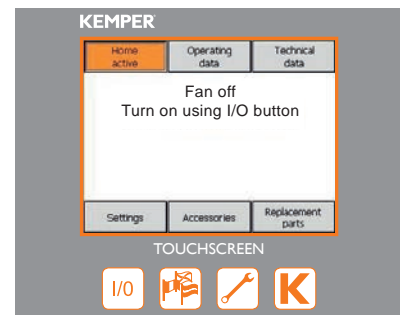
### How they work

- » The contaminated air is sucked in through a pipe
- » Dust separation takes place at the surface of the filter medium
- » The automatic cleaning of the filter is based on need and carried out by compressed air
- » The repelled dust is collected in the dust container for disposal



### Intelligent control

- » Intelligent control is the heart of KEMPER extraction and filter systems
- » All functions can be intuitively controlled via the control panel
- » A diagnostic system with various sensors monitors the proper functioning of the system
- » The analytic function of the control system permanently adjusts the operating to the conditions



### Good connections

- » System 8000 ready to connect with 16 A CEE plug
- » Potential-free contacts for receiving an external on/off signal
- » A second, external control terminal permits remote control
- » Remote via optional modem



### Filter inserts

- » Only high quality, tested and certified filters and filter media
- » Surface filtration with KemTex® ePTFE membrane filter with laminated PTFE layer
- » Best cleaning performance and long service life
- » Other, high-quality filters and filter media available, depending on application



### Filter cleaning

- » Surface filtration enables efficient cleaning of the filter cartridges used
- » Cleaning is performed using compressed air while the system is in use
- » The repelled dust falls into a mobile dust collection container
- » After automatic lowering of the dust container, the dust can easily be disposed of



» System 8000 and 9000 IFA-W3 certified



**Cancer-causing emissions**

- » When extracting **cancer-causing emissions, special rules** apply
- » These emissions are created when processing **high-alloy materials** (e.g. CrNi or non-ferrous metals)
- » **Recirculation of air into the work area**, even after filtering is basically prohibited
- » This is clearly stated in the **Directive on Hazardous Substances** with only few exceptions

**Air recirculation**

**Air recirculation of cleaned air** is only permitted in certain **exceptional cases** if

- » an **individual authorisation** is issued by an **official body** (national OSH),
- » a **recognized and tested method** or
- » a system or a **device with a corresponding test certificate** is used.

**IFA certification**

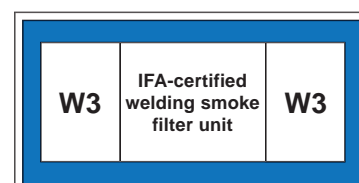
- » Certification of extraction and filter systems according to DIN EN ISO15012-1 Class W3
- » Professional Association Institute for Occupational Safety (IFA) acts as the certification body
- » IFA-tested systems from KEMPER may be used for air recirculation for carcinogenic pollutants as per welding fume class W3
- » The regulations of the Technical Regulations regarding Hazardous Substances are to be observed, such as:
  - the necessary supply of fresh air or
  - their use is limited to the heating season

**State of technology**

- » Nanoparticles of **cancer-causing** emissions are particularly dangerous
- » Residual dust from conventional systems (up to 1 mg/m<sup>3</sup>) can contain billions of particles
- » KemTex® ePTFE membrane filters separate up to 92% of particles up to 100 nanometres
- » A very large proportion of welding fumes consists of these nanoparticles

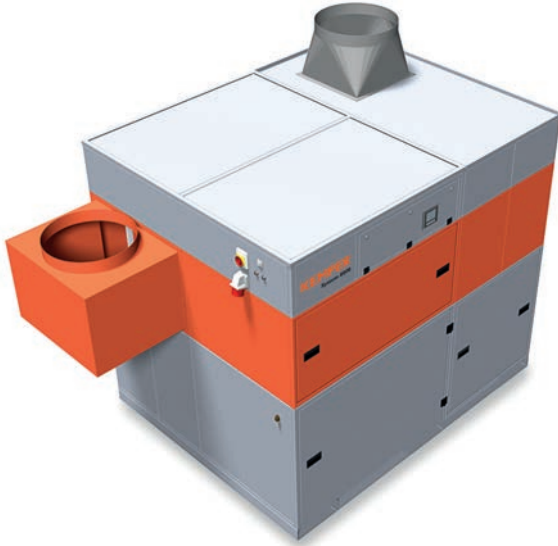
**Benefits**

- » IFA-W3 tested and certified extraction and filter systems from KEMPER can also be used for carcinogenic emissions
- » Legal security by certification from the Professional Association Institute
- » Optimum protection even against cancer-causing nanoparticles
- » Enormous cost savings due to air recirculation during the heating season
- » Contribution to environmental protection due to lower CO2 emissions



## System 8000

- » Extraction capacity up to 10,000 m<sup>3</sup>/h
- » Plug and play installation



### Applications

- » Extraction performance required: up to 10,000 m<sup>3</sup>/h
- » High levels of smoke and dust
- » Welding and grinding shops
- » Training centres and robotic welding lines
- » Laser, plasma and flame cutting systems
- » Can be installed outdoors

### Benefits

- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Quick and simple set up, delivered ready to plug in with forklift pockets and lifting eyes
- » Considerable energy cost savings by using the automatic extraction volume control
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

### Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » W3/IFA certification available for many units
- » Dust collection container with pneumatic lifting device
- » Preassembled and ready to plug in
- » Automatic extraction volume control (optional)
- » Forklift bags

### Accessories

- » Automatic dust disposal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

### Order Data

| Art. No.    | Extraction capacity             | Vacuum           | Filter surface total | Motor power | Dimensions (w x d x h)   |
|-------------|---------------------------------|------------------|----------------------|-------------|--------------------------|
| 81 0200 020 | 1,000 - 1,440 m <sup>3</sup> /h | 350 - 1,350 Pa   | 20 m <sup>2</sup>    | 1.5 kW      | 962 x 962 x 2,110 mm     |
| 81 0300 030 | 1,500 - 2,160 m <sup>3</sup> /h | 700 - 1,400 Pa   | 30 m <sup>2</sup>    | 3 kW        | 962 x 962 x 2,110 mm     |
| 81 0400 040 | 2,000 - 2,880 m <sup>3</sup> /h | 1,750 - 2,400 Pa | 40 m <sup>2</sup>    | 3 kW        | 962 x 1,413 x 2,110 mm   |
| 81 0500 050 | 2,500 - 3,600 m <sup>3</sup> /h | 1,100 - 1,950 Pa | 50 m <sup>2</sup>    | 4 kW        | 1,413 x 1,413 x 2,110 mm |
| 81 0550 060 | 2,750 - 3,960 m <sup>3</sup> /h | 1,250 - 2,200 Pa | 60 m <sup>2</sup>    | 5.5 kW      | 1,413 x 1,413 x 2,110 mm |
| 81 0600 060 | 3,000 - 4,320 m <sup>3</sup> /h | 1,200 - 1,950 Pa | 60 m <sup>2</sup>    | 5,5 kW      | 1,413 x 1,413 x 2,110 mm |
| 81 0700 070 | 3,500 - 5,040 m <sup>3</sup> /h | 1,800 - 2,400 Pa | 70 m <sup>2</sup>    | 5,5 kW      | 1,413 x 1,864 x 2,110 mm |
| 81 0800 080 | 4,000 - 5,760 m <sup>3</sup> /h | 1,250 - 2,000 Pa | 80 m <sup>2</sup>    | 7,5 kW      | 1,413 x 1,864 x 2,110 mm |
| 81 0900 090 | 4,500 - 6,480 m <sup>3</sup> /h | 1,400 - 2,000 Pa | 90 m <sup>2</sup>    | 7,5 kW      | 1,413 x 1,864 x 2,110 mm |
| 81 1000 100 | 5,000 - 7,200 m <sup>3</sup> /h | 1,300 - 2,100 Pa | 100 m <sup>2</sup>   | 7.5 kW      | 2,375 x 1,864 x 2,110 mm |
| 81 1200 120 | 6,000 - 8,640 m <sup>3</sup> /h | 1,300 - 2,000 Pa | 120 m <sup>2</sup>   | 11 kW       | 2,375 x 1,864 x 2,110 mm |
| 81 1300 120 | 6,500 - 9,360 m <sup>3</sup> /h | 1,300 - 2,100 Pa | 120 m <sup>2</sup>   | 11 kW       | 2,375 x 1,864 x 2,110 mm |

▶ Video



**Applications**

- » Extraction performance required: greater than 10,000 m<sup>3</sup>/h
- » High levels of smoke and dust
- » Training centres and robotic welding lines
- » Laser, plasma and flame cutting systems
- » Can be installed outdoors
- » Welding and grinding shops

**Benefits**

- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Expandable due to simple modular construction
- » Considerable energy cost savings by using the automatic extraction volume control
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

**Properties**

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » W3/IFA certification available for many units
- » Dust collection container with pneumatic lifting device
- » Modular design
- » Automatic extraction volume control (optional)
- » Forklift bags

**System 9000**

- » Extraction capacity from 10,000 m<sup>3</sup>/h
- » Scalable, central solution

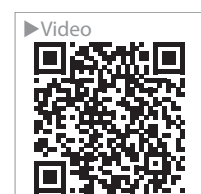


**Accessories**

- » Automatic dust disposal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

**Order Data**

| Art. No.    | Extraction capacity               | Vacuum           | Filter surface total | Motor power | Dimensions (w x d x h)   |
|-------------|-----------------------------------|------------------|----------------------|-------------|--------------------------|
| 91 1400 140 | 7,000 - 10,080 m <sup>3</sup> /h  | 1,100 - 1,700 Pa | 140 m <sup>2</sup>   | 15 kW       | 2,826 x 1,864 x 2,670 mm |
| 91 1600 160 | 8,000 - 11,520 m <sup>3</sup> /h  | 1,200 - 1,900 Pa | 160 m <sup>2</sup>   | 15 kW       | 2,826 x 1,864 x 2,670 mm |
| 91 1800 180 | 9,000 - 12,960 m <sup>3</sup> /h  | 1,050 - 1,650 Pa | 180 m <sup>2</sup>   | 18.5 kW     | 2,826 x 1,864 x 2,670 mm |
| 91 1900 180 | 9,500 - 13,680 m <sup>3</sup> /h  | 1,000 - 1,650 Pa | 180 m <sup>2</sup>   | 18.5 kW     | 2,826 x 1,864 x 2,670 mm |
| 91 2000 200 | 10,000 - 14,400 m <sup>3</sup> /h | 1,300 - 2,100 Pa | 200 m <sup>2</sup>   | 18.5 kW     | 4,239 x 1,864 x 2,670 mm |
| 91 2200 220 | 11,000 - 15,840 m <sup>3</sup> /h | 1,300 - 2,250 Pa | 220 m <sup>2</sup>   | 22 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 2400 240 | 12,000 - 17,280 m <sup>3</sup> /h | 1,250 - 1,700 Pa | 240 m <sup>2</sup>   | 22 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 2600 260 | 13,000 - 18,720 m <sup>3</sup> /h | 1,150 - 1,900 Pa | 260 m <sup>2</sup>   | 22 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 2800 280 | 14,000 - 20,160 m <sup>3</sup> /h | 1,150 - 2,050 Pa | 280 m <sup>2</sup>   | 22 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 3000 300 | 15,000 - 21,600 m <sup>3</sup> /h | 1,550 - 2,250 Pa | 300 m <sup>2</sup>   | 30 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 3200 320 | 16,000 - 23,040 m <sup>3</sup> /h | 1,450 - 1,950 Pa | 320 m <sup>2</sup>   | 30 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 3400 340 | 17,000 - 24,480 m <sup>3</sup> /h | 1,350 - 1,950 Pa | 340 m <sup>2</sup>   | 37 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 3600 360 | 18,000 - 25,920 m <sup>3</sup> /h | 1,400 - 2,200 Pa | 360 m <sup>2</sup>   | 37 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 3700 360 | 18,500 - 26,640 m <sup>3</sup> /h | 1,400 - 2,200 Pa | 360 m <sup>2</sup>   | 37 kW       | 4,239 x 1,864 x 2,670 mm |
| 91 4000 400 | 20,000 - 28,800 m <sup>3</sup> /h | 2,350 - 2,550 Pa | 400 m <sup>2</sup>   | 37 kW       | 5,652 x 1,864 x 2,670 mm |



## PlasmaFil Compact/WeldFil Compact

- » Longlife panel filter technology
- » Limited space



### Applications

- » Medium to high amounts of smoke and dust
- » Can be installed outdoors
- » Plasma and oxy-fuel cutting systems
- » Robotic welding
- » Manual and automatic welding

### Benefits

- » Easy transportation and installation
- » Low service costs due to durable plate filter technology
- » Predictable costs with lifetime filter warranty (service contract)
- » Suitable for spaces with low ceiling - fan unit can be separated
- » Optimal cleaning performance due to down-flow principle
- » Touchscreen allows safe and easy operation
- » Little floor space required due to compact design

### Properties

- » Automatic filter cleaning
- » Control via touch screen
- » Down flow filtration
- » Forklift bags and lifting eyes
- » Plate filter technology

### Accessories

- » Automatic dust removal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » SparkTrap
- » Automatic Start/Stop

### Technical Data

| Filter                 |                  |
|------------------------|------------------|
| Filter stages          | 1                |
| Filter method          | Cleanable filter |
| Filter cleaning method | Jet-pulse        |
| Type of filter         | Filter plate     |
| Filter material        | ePTFE-membrane   |
| Filter efficiency      | > 99.7 %         |
| Dust classification    | M                |

| Basic data             |                            |
|------------------------|----------------------------|
| Power supply           | 3 x 400 V / 50 Hz          |
| Noise level            | 72 dB(A)                   |
| Additional information |                            |
| IFA-Certification      | W3-Certification submitted |
| Fan type               | Radial fan, direct driven  |
| Compressed air supply  | 5 - 6 bar                  |

### Order Data

| Art. No.       | Extraction capacity              | Vacuum           | Filter surface total | Motor power | Dimensions (w x d x h)   |
|----------------|----------------------------------|------------------|----------------------|-------------|--------------------------|
| <b>31 0350</b> | 2,500 - 3,500 m <sup>3</sup> /h  | 2,000 - 2,300 Pa | 60 m <sup>2</sup>    | 5.5 kW      | 1,430 x 1,830 x 3,800 mm |
| <b>31 0500</b> | 3,500 - 5,000 m <sup>3</sup> /h  | 2,000 - 2,500 Pa | 80 m <sup>2</sup>    | 7.5 kW      | 1,430 x 1,830 x 3,800 mm |
| <b>31 0650</b> | 4,500 - 6,500 m <sup>3</sup> /h  | 1,900 - 2,500 Pa | 100 m <sup>2</sup>   | 7.5 kW      | 1,830 x 1,830 x 3,800 mm |
| <b>31 0800</b> | 6,000 - 8,000 m <sup>3</sup> /h  | 2,000 - 2,600 Pa | 120 m <sup>2</sup>   | 11 kW       | 1,830 x 1,830 x 3,800 mm |
| <b>31 0950</b> | 7,000 - 9,500 m <sup>3</sup> /h  | 2,000 - 2,800 Pa | 140 m <sup>2</sup>   | 15 kW       | 2,230 x 1,830 x 4,000 mm |
| <b>31 1100</b> | 8,000 - 11,000 m <sup>3</sup> /h | 1,900 - 3,000 Pa | 160 m <sup>2</sup>   | 15 kW       | 2,230 x 1,830 x 4,000 mm |

# » Additional Equipment

Extraction and filter systems from KEMPER can be equipped with a range of additional products to meet your individual requirements.



- » An automatic extraction power control to adjust the extraction power to the actual demand and to keep operating, electricity and follow-up costs low.
- » The external on/off switches the extraction and filter system on or off according to demand and thus contributes to cost savings and increases operating convenience.
- » An external control panel facilitates the operation and monitoring of your KEMPER extraction and filter system, for example, if installed outdoors.
- » The KEMPER remote diagnostic and maintenance system for a rapid evaluation of error messages, and remote adjustment of possible faults.
- » Alarm by phone, SMS or e-mail to report any malfunctions and for monitoring extraction and filter systems in critical areas.
- » The installations of KEMPER Systems 8000 and 9000 can be equipped with an explosion relief panel to contain possible dust explosions.
- » The KEMPER SparkTrap is an additional spark trap which minimizes the risk of filter fire.
- » By using a spark extinguishing system that detects sparks and actively extinguishes them, the risk of filter fires can be almost entirely eliminated.



## Sparktrap

- » Minimising fire risk
- » Extended filter life



### Applications

- » Applications with an increased fire hazard
- » Presence of sparks
- » During welding, grinding or cutting processes
- » Integrated into duct work before extraction and filter units

### Benefits

- » Drastic reduction of running costs due to longer filter life
- » Easy integration also into existing systems of any type or brand
- » Savings resulting from less compressed air consumption and lower energy costs
- » Minimization of fire hazards by pre-separating sparks and glowing particles

### Properties

- » Separation of sparks, glowing particles and cigarette butts
- » Swirl nozzle with annular gap spark trap
- » Sensors for spark detection (optional)
- » Can be combined with a spark extinguishing system
- » Dust collection container and gate valve in the downpipe

### Accessories

- » Stanchion support
- » Wall-mounting kit

### Order Data

| Art. No.    | Description                           | Connection Ø | Air flow rate (max.)     |
|-------------|---------------------------------------|--------------|--------------------------|
| 196 200 250 | Without spark detection - Stand Alone | 250 mm       | 2,500 m <sup>3</sup> /h  |
| 196 200 355 | Without spark detection - Stand Alone | 355 mm       | 5,000 m <sup>3</sup> /h  |
| 196 200 450 | Without spark detection - Stand Alone | 450 mm       | 8,000 m <sup>3</sup> /h  |
| 196 200 560 | Without spark detection - Stand Alone | 560 mm       | 12,500 m <sup>3</sup> /h |
| 196 400 250 | With spark detection - Stand Alone    | 250 mm       | 2,500 m <sup>3</sup> /h  |
| 196 400 355 | With spark detection - Stand Alone    | 355 mm       | 5,000 m <sup>3</sup> /h  |
| 196 400 450 | With spark detection - Stand Alone    | 450 mm       | 8,000 m <sup>3</sup> /h  |
| 196 400 560 | With spark detection - Stand Alone    | 560 mm       | 12,500 m <sup>3</sup> /h |

## DustEvac Dust Removal System

### Applications

- » Medium to high amounts of dust
- » For dust collected during cutting, welding and grinding processes
- » For all types and brands of extraction and filtration systems

### Benefits

- » Easy integration also into existing systems of any type or brand
- » Highest possible health and safety protection with contamination-free dust disposal
- » Clean dust collection area
- » Productivity increase thanks to uninterrupted operation of the filter system and large capacity
- » Fast and easy dust disposal in BigBags, transportable via forklift

### Properties

- » Connection of multiple filter systems or spark pre-separators to one system is possible
- » Automatic dust removal from filter systems
- » Continuous dust removal by vacuum conveyor
- » Controlled and monitored via the filter system

### Accessories

- » Stackable BigBags

- » Automatic dust removal
- » Contamination free



### Order Data

| Art. No. | Description          |
|----------|----------------------|
| 38 110   | For 1 filter module  |
| 38 120   | For 2 filter modules |
| 38 130   | For 3 filter modules |





» KEMPER System 9000 with weather protection for outdoor installation



» KEMPER System 9000 space saving integration



» PlasmaFil Compact with dust removal system  
DustEvac



» SparkTrap – can be integrated into confined spaces



KEMPER

**KEMPER**

MiniFil

Safe Change Filter - SCF

DEEMAN

## High-vacuum extraction

### Equipment

|             |    |
|-------------|----|
| MiniFil     | 50 |
| Dusty       | 51 |
| SolderFil   | 52 |
| VacuFil 500 | 53 |

### Accessories And Replacement Parts

|   |    |
|---|----|
| Replacement filter for high vacuum equipment      | 55 |
| Accessories and spare parts for high vacuum units | 56 |
| Ducting systems for VacuFil 500                   | 58 |

### Central Suction And Filter Units

|                         |    |
|-------------------------|----|
| System 9000 High Vacuum | 59 |
|-------------------------|----|



## MiniFil

- » High vacuum extraction
- » Safe filter change



### Applications

- » Also suitable for high-alloy steel
- » Medium levels of smoke and dust
- » Occasional to frequent use
- » Torch extraction

### Benefits

- » Energy-saving operation due to integrated start/stop function
- » Increased safety with safe filter change
- » Ideal for changing workplaces due to its low weight and optional trolley
- » Optimal adjustment to the welding process with stepless speed control

### Properties

- » Filter monitoring
- » Stepless speed control
- » Safe Change Filter
- » Start/Stop-Automatic for alternating current
- » Spark separator

### Variants

- » Other voltages

## Technical Data

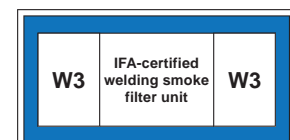
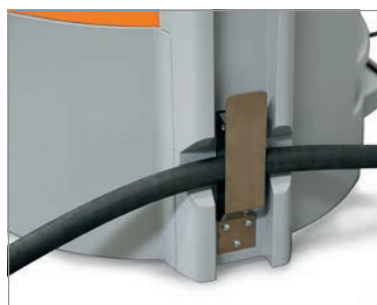
| Filter             |                       |
|--------------------|-----------------------|
| Filter stages      | 3                     |
| Filter method      | Disposable filter     |
| Filter surface     | ca. 12 m <sup>2</sup> |
| Type of filter     | SafeChangeFilter      |
| Filter material    | Non-woven polyester   |
| Filter efficiency  | > 99 %                |
| Filterclass        | H13                   |
| Additional filters | Cyclone pre-filter    |
| Additional filters | Pre-filter (aluminum) |

| Basic data             |                       |
|------------------------|-----------------------|
| Extraction capacity    | 150 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 425 x 365 x 790 mm    |
| Weight                 | 20 kg                 |
| Motor power            | 2 kW                  |
| Power supply           | 1 x 230 V / 50 Hz     |
| Rated current          | 11 A                  |
| Noise level            | 74 dB(A)              |
| Additional information |                       |
| IFA-Certification      | W3-Approved           |
| Fan type               | Suction turbine       |
| Hose connection        | Ø 45 mm               |



## Order Data

| Art. No.        | Description                                      |
|-----------------|--|
| <b>65 150</b>   | MiniFil High Vacuum Smoke Extraction Filter Unit |
| <b>109 0467</b> | Replacement filter 12 m <sup>2</sup>             |



## Dusty

### Applications

- » Low to medium levels of smoke and dust
- » Torch extraction
- » Repair work
- » Alternating work places

### Benefits

- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » For mobile use due to light weight
- » Optimal adjustment to the welding process with stepless speed control

### Properties

- » Manual filter cleaning
- » Cleaning indicator
- » KemTex® ePTFE filter cartridge
- » Portable and mobile
- » Two suction nozzles
- » Stepless speed control

### Variants

- » Other voltages

- » High vacuum extraction
- » Manual filter cleaning



| Basic data             |                       |
|------------------------|-----------------------|
| Extraction capacity    | 260 m <sup>3</sup> /h |
| Dimensions (w x d x h) | 300 x 300 x 690 mm    |
| Weight                 | 24 kg                 |
| Motor power            | 1,6 kW                |
| Power supply           | 1 x 230 V / 50 Hz     |
| Rated current          | 8,7 A                 |
| Noise level            | 74 dB(A)              |
| Additional information |                       |
| Fan type               | Suction turbine       |
| Hose connection        | Ø 2 x 45 mm           |

### Technical Data

| Filter                 |                         |
|------------------------|-------------------------|
| Filter stages          | 1                       |
| Filter method          | Cleanable filter        |
| Filter cleaning method | Manual                  |
| Filter surface         | ca. 1.35 m <sup>2</sup> |
| Type of filter         | Filter cartridge        |
| Filter material        | ePTFE-membrane          |
| Filter efficiency      | > 99,9 %                |
| Dust classification    | M                       |

### Order Data

| Art. No.        | Description  |
|-----------------|--|
| <b>63 100</b>   | Dusty High Vacuum Smoke Extraction Filter Unit               |
| <b>109 0432</b> | 1,35 m <sup>2</sup> spare filter with KemTex® ePTFE-Membrane |



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm



## SolderFil

- » Soldering fume extraction
- » Compact



### Applications

- » Low to medium levels of soldering fumes
- » Occasional to frequent use
- » One or two workplaces

### Benefits

- » Increased safety due to filter monitoring
- » Optimal adjustment to the soldering process with stepless speed control
- » High flexibility due to extensive additional equipment

### Properties

- » Combined gas and particle filter
- » Control system with three-stage filter monitoring
- » Stepless speed control
- » Two 45 mm connectors

### Accessories

- » Mini exhaust arm
- » Mounting bracket
- » Slot extraction nozzle
- » Carriage
- » Suction hose

### Order Data

| Art. No.   | Description   |
|------------|---|
| 91 830 105 | Extraction volume 240 m <sup>3</sup> /h, 1,6kW, 1x230V/50Hz           |
| 91 830 200 | Extraction volume 200m <sup>3</sup> /h, 1,1kW, 3x400V/50Hz            |
| 109 0034   | Pre-filter mats, (10 per set)   |
| 109 0002   | 2-step-combination filter (particulate and activated charcoal filter) |

### Technical Data

| Filter                 |                        |
|------------------------|------------------------|
| Filter stages          | 2                      |
| Filter method          | Disposable filter      |
| Filter surface         | ca. 2.3 m <sup>2</sup> |
| Type of filter         | Filter cassette        |
| Filter material        | Non-woven fibre        |
| Filter efficiency      | > 99.9 %               |
| Dust classification    | H                      |
| Filterclass            | H13                    |
| Additional filters     | Pre-filter             |
| Basic data             |                        |
| Dimensions (w x d x h) | 340 x 450 x 660 mm     |
| Rated current          | 8.5 A                  |
| Noise level            | 71 dB(A)               |
| Additional information |                        |
| Fan type               | Radial fan             |

**Applications**

- » High levels of smoke and dust
- » Non-stop operation
- » Torch extraction, robot extraction
- » Suction nozzles or high vacuum exhaust arms

**Benefits**

- » High efficiency due to automatic filter cleaning
- » Best health protection for employees by use of KemTex® ePTFE filter cartridges with surface filtration
- » Great flexibility in version with four separate connections
- » Uninterrupted continuous operation due to automatically controlled filter cleaning

**Properties**

- » Automatic filter cleaning, pressure-controlled
- » Dust collection container
- » Filter monitoring
- » Side channel compressor
- » KemTex® ePTFE filter cartridges
- » 4 x 45mm or 1 x 100mm hose/duct connector

**Accessories**

- » Automatic Start/Stop
- » Suction hose
- » Slot and funnel nozzle
- » Connector for welding torches

**VacuFil 500**

- » High vacuum extraction
- » High performance



**Order Data**

| Art. No.         | Description   |
|------------------|---|
| <b>82 700</b>    | 4 connection ports, Ø 45mm                                    |
| <b>82 750</b>    | 1 connection port, Ø100mm                                     |
| <b>82 700 FU</b> | 4 intake sockets NW 45 mm and automatic flow rate adjustment  |
| <b>82 750 FU</b> | 1 intake sockets NW 100 mm and automatic flow rate adjustment |
| <b>109 0440</b>  | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter     |

**Technical Data**

| <b>Filter</b>                 |                        |
|-------------------------------|------------------------|
| Filter stages                 | 1                      |
| Filter method                 | Cleanable filter       |
| Filter cleaning method        | Rotating nozzle        |
| Filter surface                | ca. 10 m <sup>2</sup>  |
| Type of filter                | Filter cartridge       |
| Filter material               | ePTFE-membrane         |
| Filter efficiency             | > 99.9 %               |
| Dust classification           | M                      |
| <b>Basic data</b>             |                        |
| Extraction capacity           | 500 m <sup>3</sup> /h  |
| Dimensions (w x d x h)        | 655 x 1,200 x 1,370 mm |
| Weight                        | 264 kg                 |
| Motor power                   | 5,5 kW                 |
| Power supply                  | 3 x 400 V / 50 Hz      |
| Rated current                 | 11 A                   |
| Noise level                   | 74 dB(A)               |
| <b>Additional information</b> |                        |
| Fan type                      | Side channel blower    |
| Compressed air supply         | 5 - 6 bar              |



Suitable for alveole exchangeable dusts  
separation > 99 % of particles < 0,4 µm





**Spare filter for MiniFil**

| Art. No. | Description        |
|----------|--------------------|
| 109 0467 | Replacement filter |



**Spare filter for Dusty**

| Art. No. | Description  |
|----------|--|
| 109 0432 | 1,35 m <sup>2</sup> spare filter with KemTex® ePTFE-Membrane |



**Spare filter SolderFil**

| Art. No. | Description   |
|----------|---|
| 109 0002 | 2-step-combination filter (particulate and activated charcoal filter) |
| 109 0034 | Pre-filter mats, (10 per set)   |



**Spare filter for VacuFil 500**

| Art. No. | Description   |
|----------|---|
| 109 0440 | 10 m <sup>2</sup> KemTex® ePTFE membrane cartridge filter |



**Replacement filter for mini-Weldmaster**

| Art. No. | Description                   |
|----------|-------------------------------|
| 109 0009 | Main filter                   |
| 109 0034 | Pre-filter mats, (10 per set) |
| 109 0008 | Activated charcoal filter     |



### Automatic start/stop

| Art. No.   | Description  |
|------------|--|
| 94 102 704 | For VacuFil 500: Automatic start/stop sensor, 5 m connection cable |



### Accessories for MiniFil

| Art. No. | Description         |
|----------|---------------------|
| 6515001  | Trolley for MiniFil |



### Extraction hose

| Art. No.   | Description                           |
|------------|---------------------------------------|
| 93 070 004 | Extraction hose Ø45mm, length: 2,5 m  |
| 93 070 005 | Extraction hose Ø45mm, length: 5,0 m  |
| 93 070 006 | Extraction hose Ø45mm, length: 10,0 m |



### Slit nozzle

| Art. No. | Description                             |
|----------|---|
| 232 0008 | Slit nozzle, 300 mm, with magnetic foot |
| 232 0009 | Slit nozzle, 600 mm, with magnetic foot |



### Funnel nozzle

| Art. No. | Description                                |
|----------|--|
| 232 0010 | Funnel nozzle flexible, with magnetic foot |



### Adaptor for welding torches

For connection with a hose, Ø 45 mm

| Art. No. | Description   |
|----------|---|
| 106 0071 | Adaptor for welding torches with integrated extraction 42 - 44 mm |
| 106 0104 | Adaptor for welding torches with integrated extraction 39 - 42 mm |
| 106 0084 | Adaptor for welding torches with integrated extraction 30 - 38 mm |



**Mini-Exhaust arm**

| Art. No. | Description  |
|----------|--|
| 91 350   | Exhaust arm, Ø50mm, length: 740 mm (without exhaust nozzle), swivelling in all directions, made out of anodized aluminium, joints out of molded plastic, incl. standard fixing device. Other exhaust arm diameters on request. |



**Mounting brackets**

| Art. No.   | Description                                      |
|------------|--|
| 93 008 001 | Table mounting bracket incl. two screw clamps    |
| 93 008 002 | Wall mounting bracket incl. screws and rawlplugs |



**Slit nozzle**

| Art. No. | Description               |
|----------|---------------------------|
| 232 0002 | Slit nozzle, width 200 mm |



**Tube nozzle**

| Art. No.  | Description           |
|-----------|-----------------------|
| 23 200 04 | Slanted nozzle, Ø50mm |



**Plexiglass nozzle**

| Art. No.  | Description                     |
|-----------|---------------------------------|
| 23 200 05 | Plexiglass nozzle, 245 x 220 mm |



**Funnel nozzle, round**

| Art. No.  | Description                                  |
|-----------|--|
| 23 200 06 | Funnel nozzle, round, extraction hole Ø210mm |



## Ducting systems for VacuFil 500



A ducting system is used to transport the contaminated air from where it is collected to the extraction and filtration system. The system will be designed and assembled according to your wishes. The complete system is galvanized and consists of pipes, clamps, connectors, T-pieces, reducers and all other necessary pipe parts. All components are wear resistant because they are made of steel.



### Ducting systems for VacuFil 500

| Pos. | Art. No.        | Description  |
|------|-----------------|--|
| 1    | 250 000 100 300 | Duct 3 m, Ø 100 mm, Gauge: 0,6 mm, 4,2 kg                  |
| 1    | 250 000 100 600 | Duct 6 m, Ø 100 mm, Gauge: 0,6 mm, 8,4 kg                  |
| 2    | 250 030 100 015 | 15° Bend, Ø 100 mm, Length: 13 mm, 0,15 kg                 |
| 2    | 250 030 100 030 | 30° Bend, Ø 100 mm, Length: 27 mm, 0,18 kg                 |
| 2    | 250 030 100 045 | 45° Bend, Ø 100 mm, Length: 41 mm, 0,21 kg                 |
| 2    | 250 030 100 060 | 60° Bend, Ø 100 mm, Length: 64 mm, 0,33 kg                 |
| 2    | 250 030 100 090 | 90° Bend, Ø 100 mm, Length: 100 mm, 0,31 kg                |
| 3    | 250 060 100 000 | Male sleeve coupler, Ø 100 mm, Length: 80 mm, 0,12 kg      |
| 4    | 250 070 100 000 | Female sleeve coupler, Ø 100 mm, Length: 97 mm, 0,1 kg     |
| 5    | 250 150 100 063 | Y-piece, Ød1 100 mm, Ød3: 63 mm, Ød4 63 mm, 0,9 kg         |
| 6    | 250 100 100 063 | T-piece, Ød1: 100 mm, Ød3: 63 mm, Length: 125 mm           |
| 6    | 250 100 100 080 | T-piece, Ød1: 100 mm, Ød3: 80 mm, Length: 97 mm            |
| 6    | 250 100 100 100 | T-piece, Ød1: 100 mm, Ød3: 100 mm, Length: 130 mm          |
| 7    | 250 110 100 063 | Branching saddle, Pipe diameter: 100 mm, 0,1 kg            |
| 8    | 250 200 100 063 | Reducer, Ød1: 100 mm, Ød2: 63 mm                           |
| 8    | 250 200 100 080 | Reducer, Ød1: 100 mm, Ød2: 80 mm                           |
| 9    | 250 260 100 000 | End cap for formed pieces, Ø 100 mm, Length: 40 mm, 0,1 kg |
| 10   | 250 250 100 000 | End cap for ducts, Ø 100 mm, Length: 10 mm, 0,1 kg         |

**Applications**

- » High levels of smoke and dust
- » Welding torch extraction, nozzles and high vacuum exhaust arms
- » Can be installed outdoors
- » Large welding shops or training centres

**Benefits**

- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Expandable due to simple modular construction
- » Considerable energy cost savings by using the automatic extraction volume control
- » Convenient operation due to intelligent control via touch screen with diagnostic system
- » Flexible integration of the control system into third-party systems such as cutting equipment due to potential-free contacts
- » Best health protection for employees by use of KemTex® ePTFE cartridges with surface filtration

**Properties**

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Modular design
- » Automatic extraction volume control (optional)
- » Forklift bags

**System 9000 High Vacuum**

- » High vacuum extraction
- » Scalable, central solution



**Accessories**

- » Automatic dust disposal - DustEvac
- » Automatic extraction volume control
- » External On/Off
- » Spark separator – SparkTrap
- » Weatherproof housing for outdoor installation

**Order Data**

| Art. No.    | Extraction capacity | Vacuum             | Filter surface total | Motor power | Dimensions (w x d x h)   |
|-------------|---------------------|--------------------|----------------------|-------------|--------------------------|
| 91 0330 030 | 800 - 1,200 m³/h    | 13,000 - 18,000 Pa | 30 m²                | 22 kW       | 2,375 x 1,413 x 2,015 mm |
| 91 0400 040 | 1,200 - 2,000 m³/h  | 13,000 - 18,000 Pa | 40 m²                | 30 kW       | 2,826 x 1,413 x 2,015 mm |
| 91 0450 060 | 1,800 - 3,000 m³/h  | 10,500 - 20,000 Pa | 60 m²                | 37 kW       | 3,277 x 1,413 x 2,015 mm |





## General Ventilation Systems

|                          |    |
|--------------------------|----|
| Overview                 | 62 |
| KemJet                   | 63 |
| CleanAirTower            | 65 |
| Push-Pull-System         | 66 |
| Displacement Ventilation | 67 |
| AirWatch                 | 69 |



## » Indoor Ventilation Systems



### Fumes, welding fumes or just that the air is thick with dust in your workshop?

Capturing harmful substances at the point where they arise is still the most effective method of extraction and also is mentioned right away in all regulations. This is the only way in which practically all welding fumes and other harmful substances can be captured.

All the same, in some work environments source capture units are insufficient or can only be used with difficulty, for example in the case of:

- » large work pieces
- » changing welding positions or
- » where work places are widely spaced

This is where KEMPER Indoor Ventilation Systems help you to provide optimum health protection for your employees and to keep the air in your workshops clean. If source extraction units cannot be used or are insufficient, welding fumes and other harmful substances can accumulate and form a layer of smoke above the area where metal working is taking place.

By installing a hall ventilation system, you create a safe and above all clean work environment where your employees feel comfortable and machines and the building remain clean. This not only benefits you, but also saves huge cleaning costs. Not to mention the huge savings on the investment and operation of KEMPER indoor ventilation systems.

In workshops and metal-working companies there are many and varied conditions and applications. For this reason, based on its many years of experience, KEMPER provides various different indoor ventilation systems.

Depending on wishes and requirements, these can be used individually or in combination. So for example, it may not be necessary to equip the entire area. Indeed, using KEMPER systems, it may be possible to create individual, new work areas.

**Applications**

- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

**Benefits**

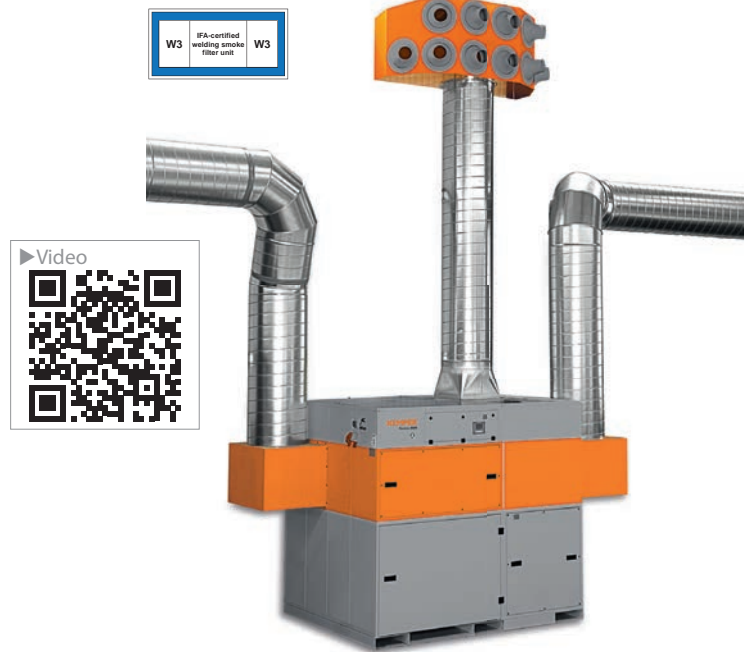
- » Fresh air distribution adaptable to the location of the plant as high-performance nozzles are adjustable by 30 degrees
- » Contamination-free dust collection due to compressed air fixation of dust collection containers
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Various outlet heights possible by using different pipe lengths
- » Little noise emission due to a particularly low noise level
- » Heating costs minimised by air recirculation
- » Quick and simple to set up
- » Convenient operation due to intelligent control via touch screen with diagnostic system

**Properties**

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » W3/IFA certified
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » High-performance nozzles adjustable by 30 degrees

**KemJet**

- » High performance nozzles
- » Air turbulence



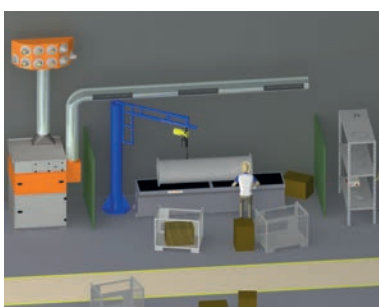
**Accessories**

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch
- » Stanchion support
- » Wall-mounting kit

**Order Data**

| Art. No.    | Extraction capacity      | Filter surface total | Length of extraction duct | Nozzles     | Air nozzles, range |
|-------------|--------------------------|----------------------|---------------------------|-------------|--------------------|
| 99 880 0407 | 6,000 m <sup>3</sup> /h  | 60 m <sup>2</sup>    | 6,000 mm                  | 10 x 200 mm | approx. 30 m       |
| 99 880 0401 | 9,000 m <sup>3</sup> /h  | 90 m <sup>2</sup>    | 2 x 6.000 mm              | 12 x 200 mm | approx. 38 m       |
| 99 880 0414 | 13,000 m <sup>3</sup> /h | 120 m <sup>2</sup>   | 2 x 9.000 mm              | 10 x 250 mm | approx. 45 m       |

**KemJet 6000**



**KemJet 9000**



**KemJet 13000**



### 360° intake

Consistent intake of the contaminated air



### Bumper

The tower is equipped with specific impact protection

### Low-impulse air circulation

No dust distribution into clean areas, as barely any air turbulence is created

## Applications

- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » Workstations, Workshops, Logistic and distribution centres

## Mode of operation

- » Extraction of ambient air via an integrated ventilator
- » The cleaned air is returned to the workspace by low level outlets
- » The warm fresh air is pushing the welding smoke again towards the 360° inlet

## Benefits

- » Minimization of heating costs due to air recirculation and air distribution
- » Increased safety with contamination-free dust disposal
- » No dust distribution into clean areas, as barely any air turbulence is created
- » Cost-effective installation or retrofit, as no ductwork is needed
- » Safe transportation and easy installation by crane eyes
- » Permanent operation by means of automatic dust disposal in dust collection bin

## Technical Data

| Filter                 |                           |
|------------------------|---------------------------|
| Filter stages          | 2                         |
| Filter method          | Cleanable filter          |
| Filter cleaning method | Jet-pulse                 |
| Filter surface         | ca. 58 m <sup>2</sup>     |
| Number filter elements | 1                         |
| Filter material        | PTFE-membrane             |
| Filter efficiency      | > 99.9 %                  |
| Dust classification    | M                         |
| Additional filters     | Cyclone pre-filter        |
| Basic data             |                           |
| Extraction capacity    | 6,000 m <sup>3</sup> /h   |
| Height                 | 3,545 mm                  |
| Diameter               | 1,172 mm                  |
| Weight                 | 653 kg                    |
| Motor power            | 5.5 kW                    |
| Power supply           | 3 x 400 V / 50 Hz         |
| Rated current          | 11 A                      |
| Noise level            | 69 dB(A)                  |
| Additional information |                           |
| IFA-Certification      | W3-Approved               |
| Fan type               | Radial fan, direct driven |
| Compressed air supply  | 6 - 8 bar                 |

## Order Data

| Art. No. | Description                       |
|----------|-----------------------------------|
| 390 600  | CleanAirTower General Ventilation |
| 149 0675 | Dust collection bin (set of 3)    |

## CleanAirTower

- » Stand-Alone Installation
- » Principle of layer ventilation

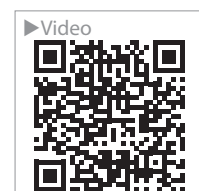


## Properties

- » Automatic filter cleaning
- » Lifting eyes
- » 360° lamella air intake
- » Contamination-free dust disposal in dust collection bin, fully incineratable
- » Slow, low-impulse air circulation
- » Displacement flow principle, recommended by health and safety bodies
- » System barely generates air turbulence

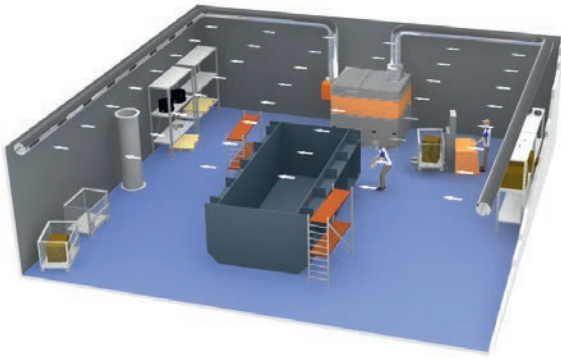
## Accessories

- » AirWatch



## Push-Pull-System

- » Capturing and outlet opposite
- » Air turbulence



### Properties

- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Can be connected to various extraction systems
- » Can be combined with other intake systems to one extraction system
- » Can be extended
- » Economical
- » Low noise level

### Accessories

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch

### Applications

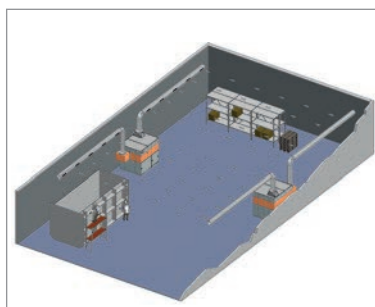
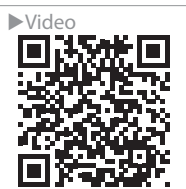
- » Low to medium levels of smoke and dust
- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

### Mode of operation

- » Outlet and inlet pipes (push-pull) are mounted opposite each other at a height of 4-6 m and connected to a central filter system
- » Contaminated, warm air rises and by the air flow from the outlet pipe is moved in a controlled manner towards the inlet
- » Contaminated air is extracted via the inlets and purified in the filter system
- » The clean air returns to the factory building via the outlets so the veil of smoke disappears

### Benefits

- » Flexibly expandable by additional piping
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Little noise emission due to a particularly low noise level
- » Heating costs minimised by air recirculation
- » Convenient operation due to intelligent control via touch screen with diagnostic system
- » Contamination free dust collection due to compressed air lift for duct collection container



## Applications

- » Medium to high levels of smoke and dust
- » Workshops where local exhaust ventilation is not possible
- » To complement local exhaust ventilation systems
- » Environments with changing sources of smoke and dust
- » For large work pieces or where work positions are well separated

## Mode of operation

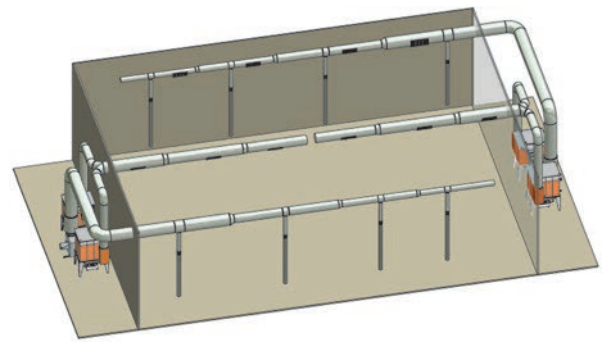
- » Outlet pipes are installed close to the floor, inlet pipes at a height of 4-6 m and connected to a central extraction and filter system
- » Contaminated, warm air rises, is collected through the inlet pipes and cleaned in the filter unit
- » The purified, clean air exits from the outlet pipes at low velocity near the floor
- » The warm, fresh air displaces the welding fumes towards the inlet pipes and at the workplaces a constant, circulating air stream is created

## Benefits

- » Optimised, low velocity air flow by using thermal air currents
- » Uninterrupted continuous operation due to automatic differential pressure-controlled filter cleaning
- » Can be adapted to specific work areas due to a flexible number of outlet pipes
- » Little noise emission due to a particularly low noise level
- » Heating costs minimized by air recirculation
- » Convenient operation due to intelligent control via touch screen with diagnostic system
- » Contamination free dust collection due to compressed air lift for duct collection container

## Displacement Ventilation

- » Capturing and outlet separate
- » Low impulse routing of air flow

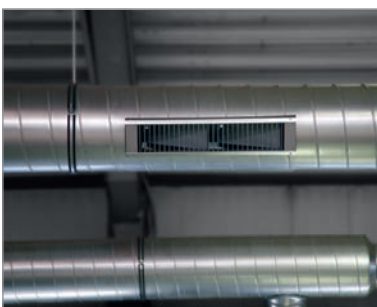
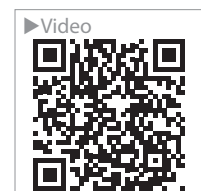


## Properties

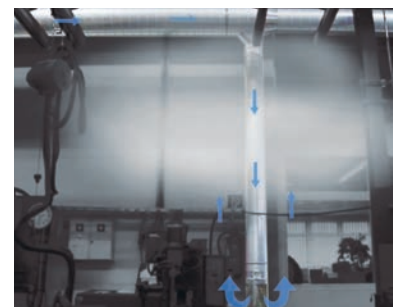
- » Automatic filter cleaning, pressure-controlled
- » Control via touch screen
- » KemTex® ePTFE filter cartridges
- » Dust collection container with pneumatic lifting device
- » Can be connected to various extraction systems
- » Can be combined with other intake systems to one extraction system
- » Adaptable in line with contamination level (outlets)
- » Low velocity air flow
- » Economical
- » Low noise level

## Accessories

- » Automatic dust disposal - DustEvac
- » External On/Off
- » AirWatch



Inlet duct



Displacement outlet



»» Continuous air monitoring  
for reliable work safety  
with AirWatch

## AirWatch

### Applications

- » Monitoring and documentation of air quality/ dust concentration
- » Workstations, production halls, logistic halls and warehouses
- » Monitoring of compliance with the regulations of the employers' liability insurance association
- » Efficient control of room-ventilation and extraction systems

### Mode of operation

- » Extraction of ambient air via an integrated ventilator
- » Monitoring of an area of up to 20 m in width x 30 m in length
- » Airquality displayed as traffic light signal
- » Display of correct measuring values on smartphone, tablet and PC

### Benefits

- » Checks: Are you operating within the legal limits? Are you complying with your self-imposed target values? Clear readability thanks to traffic-light display
- » Safety: With documentation, by means of detailed measurements and data storage
- » Investment protection: Customised adaptation to changing regulations thanks to adjustable limit values
- » Increase trust: Presentation of the effectiveness of occupational safety measures to employees using traffic-light display as well as on smartphone, tablet and PC
- » Energy cost savings: About the connection between AirWatch and KEMPER room-ventilation and extraction systems (needs-based air regulation)

### Properties

- » Visual, laser-operated measurement methods
- » Individually adjustable limit values and alarm thresholds
- » Digital radio system for communication with the room-ventilation and extraction systems
- » Connection to smartphone, tablet and PC
- » Trends display for analysis of hazardous substance concentration
- » Control and monitoring from control station/ foreman's office

### Accessories

- » Ceiling suspension
- » Pedestal
- » Wall bracket

- » Monitors the air quality
- » Controls room-ventilation and extraction systems



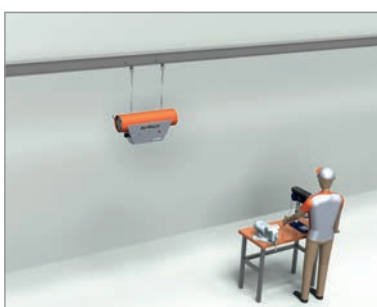
### Technical Data

#### Basic data

|                        |                        |
|------------------------|------------------------|
| Dimensions (w x d x h) | 700 x 200 x 372 mm     |
| Weight                 | 11 kg                  |
| Power supply           | 1x100-240 V, 50/60 Hz  |
| Power                  | 15 W                   |
| Noise level            | 30 dB(A)               |
| Radio standard         | IEEE 802.15.4          |
| Frequency              | 2.4 GHz ISM            |
| Safety                 | 128-bit AES encryption |

### Order Data

| Art. No.       | Description  |
|----------------|--|
| <b>390 100</b> | AirWatch   |
| <b>390 180</b> | Suspension Set AirWatch, assembly kit, max. 9 m suspension |
| <b>390 181</b> | Wall bracket AirWatch, assembly kit, RAL 9005, black       |
| <b>390 182</b> | Column AirWatch, H=2100, RAL 9005, black                   |



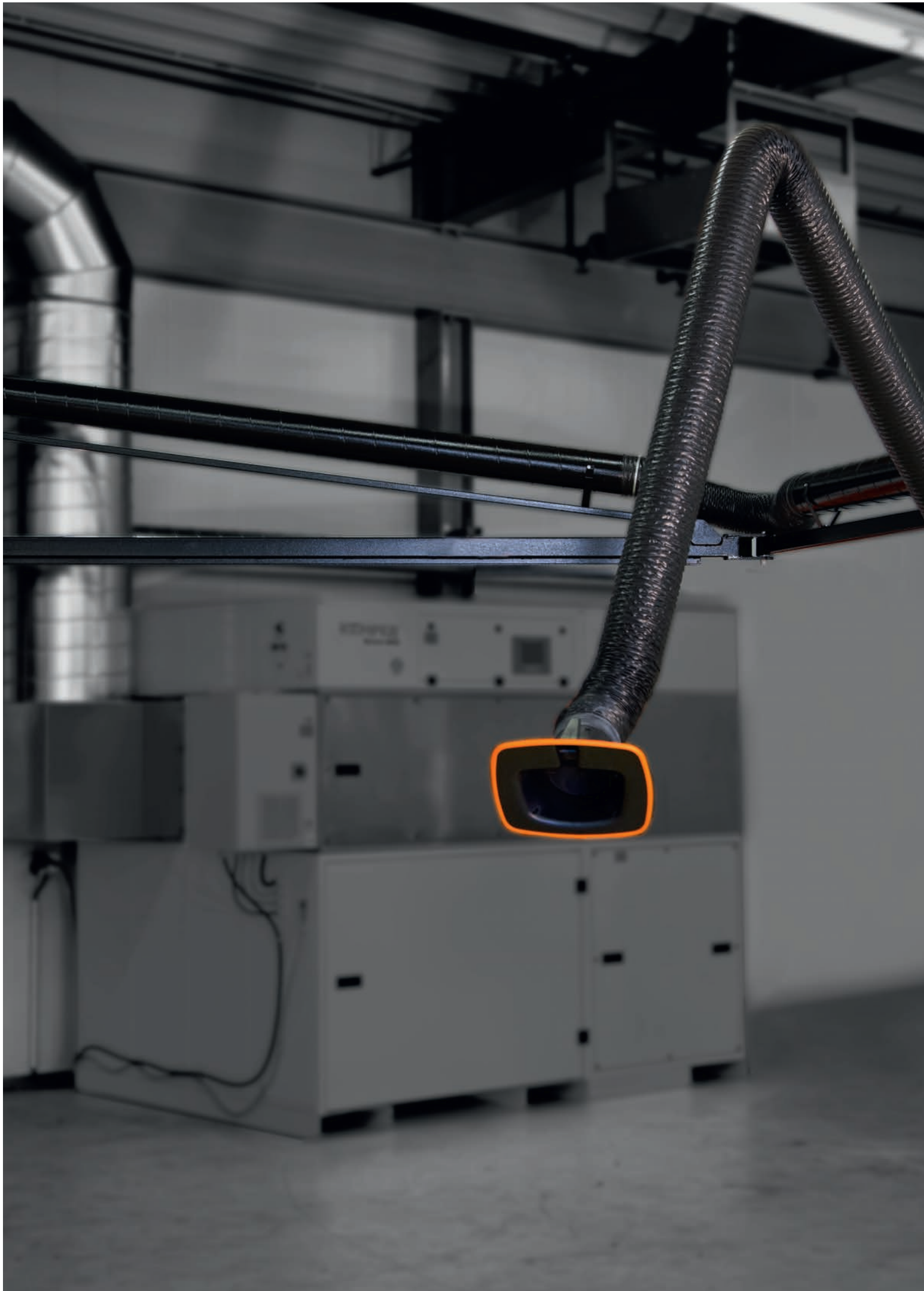
390 180



390 181



390 182



## Exhaust Arms And Fans

### Exhaust Arms

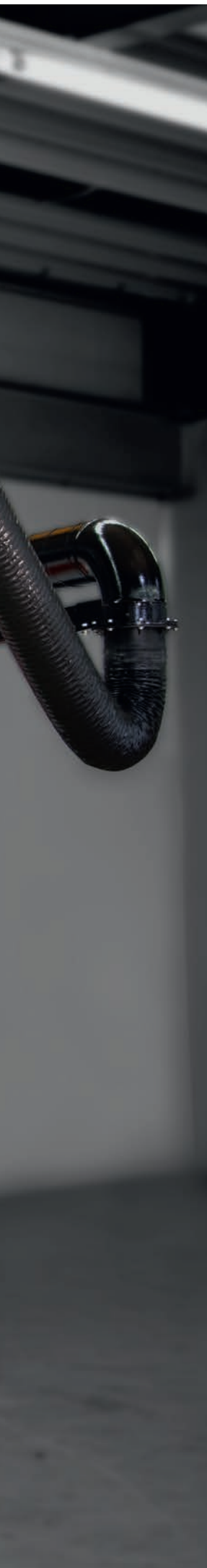
|                                 |    |
|---------------------------------|----|
| Exhaust Arm                     | 73 |
| Extraction arm - one-piece boom | 74 |
| Extraction arm - two-piece boom | 75 |
| Column for exhaust arm          | 76 |
| Telescopic Exhaust Arm          | 77 |
| Exhaust Arm For Suction Rail    | 78 |

### Fans

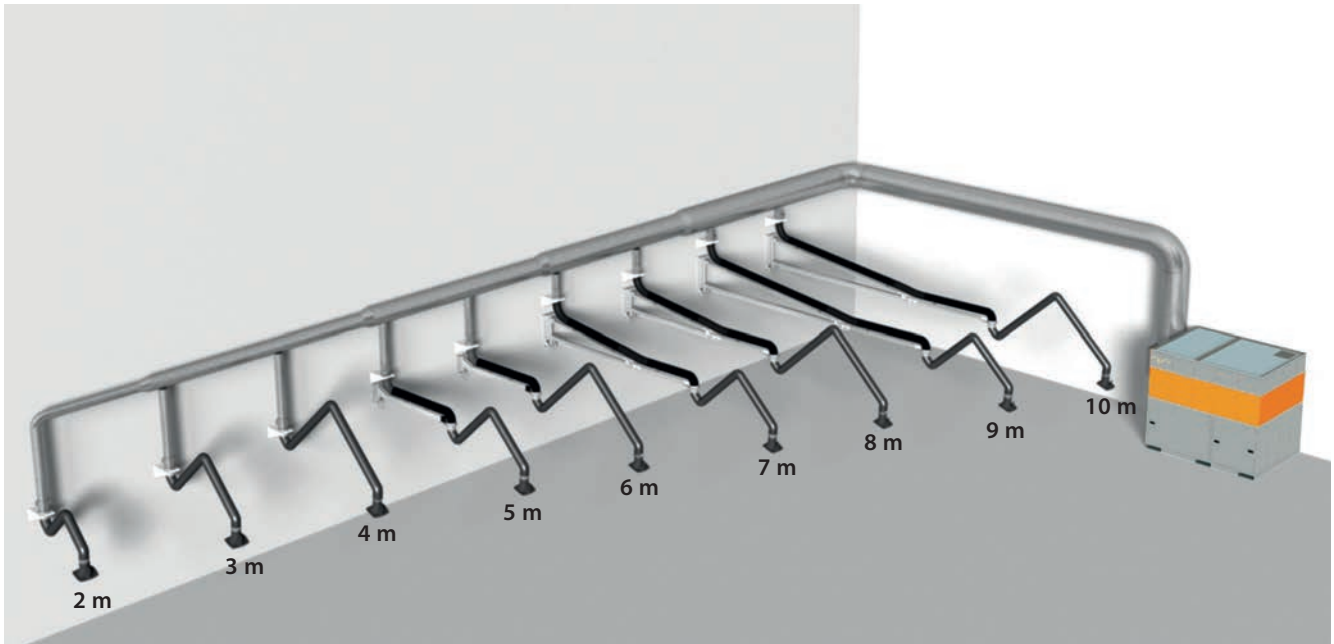
|                                 |    |
|---------------------------------|----|
| Fan                             | 80 |
| Central Fan                     | 81 |
| Exhaust Fan                     | 82 |
| Exhaust Set                     | 83 |
| Extraction set - one-piece boom | 84 |
| Extraction set - two-piece boom | 85 |

### Accessories And Replacement Parts

|   |    |
|---|----|
| Accessories and spare parts for exhaust arms    | 86 |
| Accessories and spare parts for extraction fans | 88 |
| Accessories and spare parts for suction fans    | 90 |
| Tubes general                                   | 91 |



# » Exhaust arms overview



## Booms

These can be one- or two-part depending on length and fastened in place by a wall bracket. They have C-rails with trolleys and can handle loads, for example tools or wire feeders, of up to 50 kg.

## Extraction arms

The arm can be moved to any desired position within its range easily and quickly and remains there.

## Flexible hose version

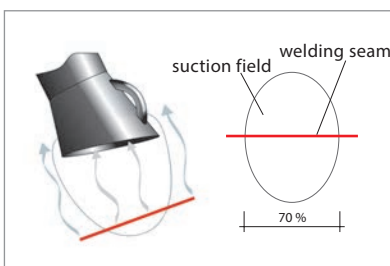
The flexible hose arm consists of internal rods and external hosing.

## Rigid metal tube version

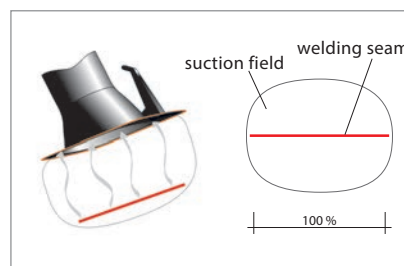
This version consists of two aluminium tubes and three pieces of hosing at the internal joints.

## Extraction hood

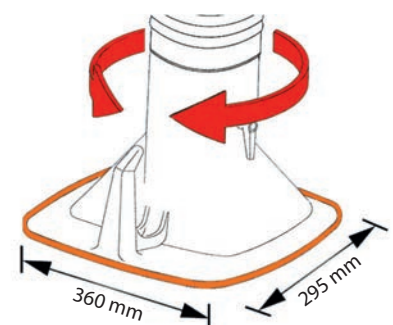
The rectangular shape and 360-degree flexibility of the hood ensure it is always ideally positioned relative to welding. It is very easy to operate and can be positioned with one hand. The flange-shaped cover on the sides prevents the extraction of unwanted air. The hood has a 40% higher efficiency level than standard oval models and needs less positioning.



conventional, oval exhaust hood



exhaust hood with flange-shaped overlap



## Exhaust Arm

- » Flexible operation
- » Up to 4 m reach



### Benefits

- » Fast operation due to particularly flexible adjustment
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Due to its easy movement, the exhaust arm can be brought into any permanent position with one hand
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

### Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes

### Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Exhaust arms up to 4 m

### Scope of supply

- » Exhaust arm with hood
- » Wall bracket

### Technical Data

| Additional information  |        |
|-------------------------|--------|
| Diameter extraction arm | 150 mm |
| Joints                  | 1      |

### Order Data

| Art. No.      | Description                   |
|---------------|-------------------------------|
| <b>79 002</b> | 2 m Arm, flexible exhaust arm |
| <b>79 003</b> | 3 m Arm, flexible exhaust arm |
| <b>79 004</b> | 4 m Arm, flexible exhaust arm |
| <b>79 502</b> | 2 m Arm, rigid metal tube arm |
| <b>79 503</b> | 3 m Arm, rigid metal tube arm |
| <b>79 504</b> | 4 m Arm, rigid metal tube arm |



## Extraction arm - one-piece boom

- » Flexible operation
- » Up to 7 m reach



### Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes
- » Large workpieces

### Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage
- » Exhaust arms up to 7 m (with boom)

### Scope of supply

- » Exhaust arm with hood
- » Boom
- » Wall bracket

### Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Due to its easy movement, the exhaust arm can be brought into any permanent position with one hand
- » Fast operation due to long reach and particularly flexible adjustment
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

### Order Data

| Art. No. | Total length | Length of exhaust arm | Length of boom | Exhaust arm type     | Weight | Diameter extraction arm |
|----------|--------------|-----------------------|----------------|----------------------|--------|-------------------------|
| 79 205   | 5 m          | 3 m                   | 2 m            | flexible exhaust arm | 63 kg  | 150 mm                  |
| 79 206   | 6 m          | 4 m                   | 2 m            | flexible exhaust arm | 66 kg  | 150 mm                  |
| 79 007   | 7 m          | 4 m                   | 3 m            | flexible exhaust arm | 75 kg  | 150 mm                  |
| 79 705   | 5 m          | 3 m                   | 2 m            | rigid metal tube arm | 63 kg  | 150 mm                  |
| 79 706   | 6 m          | 4 m                   | 2 m            | rigid metal tube arm | 66 kg  | 150 mm                  |
| 79 507   | 7 m          | 4 m                   | 3 m            | rigid metal tube arm | 75 kg  | 150 mm                  |

## Extraction arm - two-piece boom

- » Flexible operation
- » Up to 10 m reach



### Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design
- » Due to its easy movement, the exhaust arm can be brought into any permanent position with one hand
- » Fast operation due to long reach and particularly flexible adjustment
- » Various options to connect the exhaust arms to fans, stationary devices or via duct work to central extraction and filtration systems

### Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes
- » Large workpieces

### Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage
- » Exhaust arms up to 10 m (with boom)

### Scope of supply

- » Exhaust arm with hood
- » Boom
- » Wall bracket

### Order Data

| Art. No. | Total length | Length of exhaust arm | Length of boom | Exhaust arm type     | Weight | Diameter extraction arm |
|----------|--------------|-----------------------|----------------|----------------------|--------|-------------------------|
| 79 307   | 7 m          | 3 m                   | 2,5 + 1,5 m    | flexible exhaust arm | 142 kg | 150 mm                  |
| 79 308   | 8 m          | 4 m                   | 2,5 + 1,5 m    | flexible exhaust arm | 145 kg | 150 mm                  |
| 79 409   | 9 m          | 3 m                   | 4 + 2 m        | flexible exhaust arm | 195 kg | 150 mm                  |
| 79 410   | 10 m         | 4 m                   | 4 + 2 m        | flexible exhaust arm | 198 kg | 150 mm                  |
| 79 807   | 7 m          | 3 m                   | 2,5 + 1,5 m    | rigid metal tube arm | 142 kg | 150 mm                  |
| 79 808   | 8 m          | 4 m                   | 2,5 + 1,5 m    | rigid metal tube arm | 145 kg | 150 mm                  |
| 79 909   | 9 m          | 3 m                   | 4 + 2 m        | rigid metal tube arm | 195 kg | 150 mm                  |
| 79 910   | 10 m         | 4 m                   | 4 + 2 m        | rigid metal tube arm | 198 kg | 150 mm                  |



## Column for exhaust arm

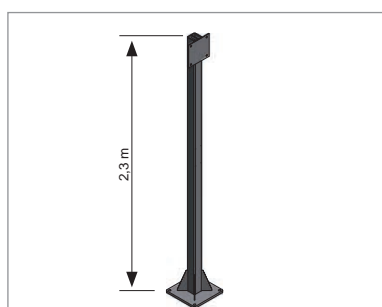


### Column for exhaust arm

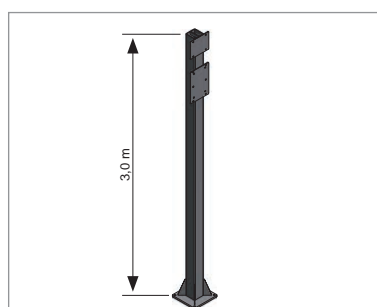
This column is the optimal solution, if there is no possibility to fasten the exhaust arm to the wall or a pillar.

#### Order Data

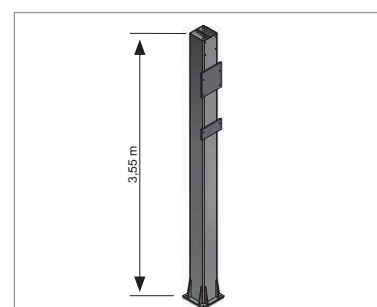
| Art. No.    | Length of exhaust arm | Length   | Weight | Colour          |
|-------------|-----------------------|----------|--------|-----------------|
| 998 800 280 | 2 - 4 m               | 2,300 mm | 40 kg  | black, RAL 9005 |
| 998 801 323 | 5 - 7 m               | 3,000 mm | 71 kg  | black, RAL 9005 |
| 141 1303    | 6 - 10 m              | 3,550 mm | 184 kg | black, RAL 9005 |



998 800 280



998 801 323



141 1303

**Applications**

- » For welding booths and welding training stations
- » High levels of smoke and dust
- » Non-stop operation
- » For small, confined booths and limited workspace
- » Welding fumes, gases, vapours, light dusts

**Properties**

- » Polyester fabric hose, PVC coated with welded steel wire spiral
- » 360 degrees rotating exhaust hood with damper
- » With a length of 1,500 mm : telescoping to 450 mm
- » With a length of 2,000 mm : telescoping to 780 mm

**Scope of supply**

- » Wall bracket
- » Telescopic arm with hood

**Accessories**

- » Lighting in the hood

**Telescopic Exhaust Arm**

- » 360° rotatable exhaust hood
- » For confined spaces



**Basic data**

|                               |                      |
|-------------------------------|----------------------|
| Diameter                      | 150 mm               |
| <b>Additional information</b> |                      |
| Exhaust arm type              | flexible exhaust arm |

**Order Data**

| Art. No. | Description |
|----------|-------------|
| 91 315   | 1,5 m Arm   |
| 91 320   | 2 m Arm     |

**Applications**

- » For existing devices
- » Non-stop operation
- » On work tables
- » On extraction devices
- » Welding fumes, gases, vapours, light dusts

**Scope of supply**

- » Exhaust arm with hood
- » Swivel joint

**Exhaust Arm Upright -Suspended**

- » 360° rotatable exhaust hood
- » Free moving operation



**Order Data**

| Art. No. | Description                     | Diameter | Exhaust arm type     | Weight |
|----------|---------------------------------|----------|----------------------|--------|
| 79 052   | 2 m Arm, suspended installation | 150 mm   | flexible exhaust arm | 17 kg  |
| 79 053   | 3 m Arm, suspended installation | 150 mm   | flexible exhaust arm | 21 kg  |
| 79 054   | 4 m Arm, suspended installation | 150 mm   | flexible exhaust arm | 24 kg  |
| 79 102   | 2 m Arm, upright installation   | 150 mm   | flexible exhaust arm | 17 kg  |
| 79 103   | 3 m Arm, upright installation   | 150 mm   | flexible exhaust arm | 21 kg  |
| 79 104   | 4 m Arm, upright installation   | 150 mm   | flexible exhaust arm | 24 kg  |



## Exhaust Arm For Suction Rail

- » Movable
- » 360° capturing area



### Applications

- » For connection to fans or central extraction systems
- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes
- » Large workpieces

### Benefits

- » Fast operation due to long reach and particularly flexible adjustment of the exhaust arm by 360 degrees below the carriage
- » Easy adjustment of the carriage due to eight ball bearing plastic castors
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design

### Properties

- » Polyester fabric hose, PVC coated with welded steel wire spiral
- » 360 degrees rotating exhaust hood with damper
- » Roller unit with ball bearing plastic castors
- » Exhaust arms up to 4 m

### Scope of supply

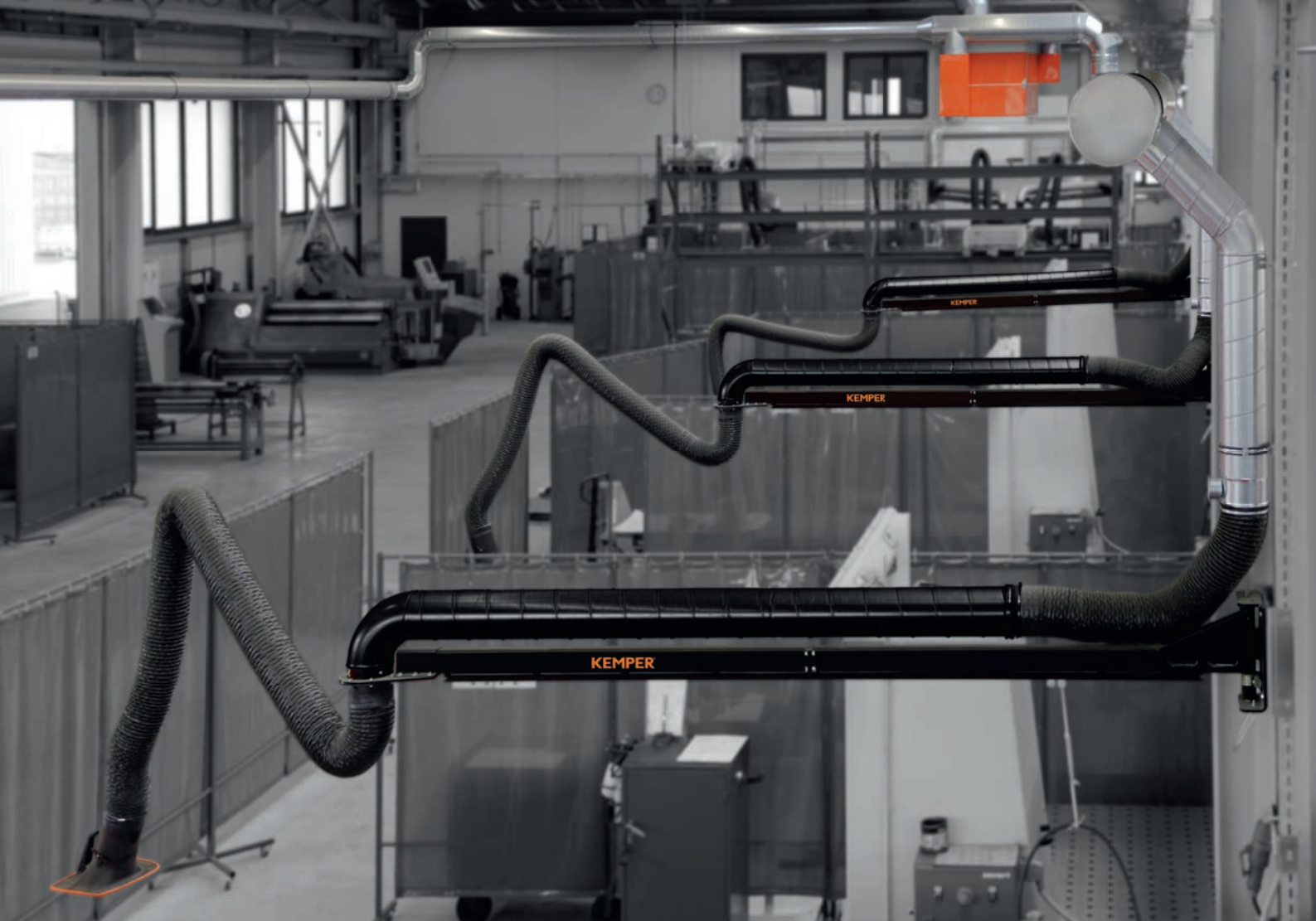
- » Exhaust arm with hood
- » Swivel joint

### Order Data

| Art. No.   | Description |
|------------|-------------|
| 79 002 100 | 2 m Arm     |
| 79 003 100 | 3 m Arm     |
| 79 004 100 | 4 m Arm     |

### Technical Data

| Basic data             |                      |
|------------------------|----------------------|
| Diameter               | 150 mm               |
| Additional information |                      |
| Exhaust arm type       | flexible exhaust arm |



## Fan

- » Low noise, spark proof
- » Venting



### Applications

- » For exhaust arms, telescopic arms and suction hoses
- » High levels of smoke and dust
- » Non-stop operation

### Benefits

- » Very quiet and spark-proof due to cast silumin housing

### Properties

- » Housing and fan of cast silumin
- » Models with 1,000 to 2,200 m<sup>3</sup>/h: connection Ø 160 mm
- » Models with 3,000 m<sup>3</sup>/h: connection Ø 250 mm

### Order Data

| Art. No.   | Description                                    |
|------------|--|
| 92 101     | Capacity 1,000m <sup>3</sup> /h, 0,55kW-3x400V |
| 92 102     | Capacity 1,000m <sup>3</sup> /h, 0,55kW-1x230V |
| 92 103     | Capacity 1,000m <sup>3</sup> /h, 0,55kW-3x500V |
| 92 104     | Capacity 2,000m <sup>3</sup> /h, 0,75kW-3x400V |
| 92 105     | Capacity 2,000m <sup>3</sup> /h, 0,75kW-1x230V |
| 92 106     | Capacity 2,000m <sup>3</sup> /h, 0,75kW-3x500V |
| 92 104 100 | Capacity 2,200m <sup>3</sup> /h, 1,1kW-3x400V  |
| 92 104 116 | Capacity 2,200m <sup>3</sup> /h, 1,1kW-3x500V  |

\*Motor protection switches see accessories

| Art. No.   | Description                                    |
|------------|--|
| 92 215     | Capacity 3,000m <sup>3</sup> /h, 1,50kW-3x400V |
| 92 215 100 | Capacity 3,000m <sup>3</sup> /h, 1,50kW-3x500V |
| 92 215 111 | Capacity 3,000m <sup>3</sup> /h, 1,50kW-1x230V |



**Applications**

- » For extraction tables, extraction hoods and extraction arms
- » High levels of smoke and dust
- » Non-stop operation

**Benefits**

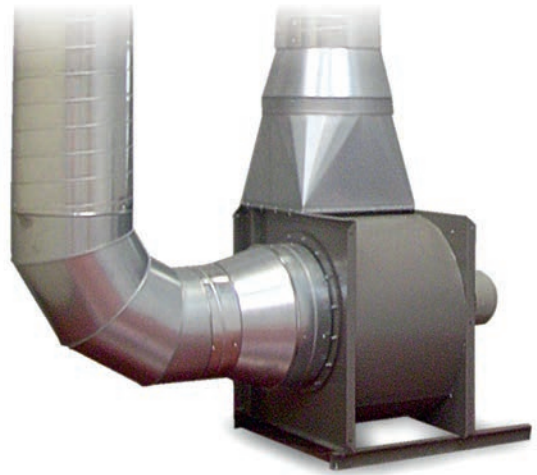
- » Low investment costs because extraction takes place without air filtration

**Properties**

- » Galvanised steel sheet construction
- » Different performance classes

**Central Fan**

- » For large air volumes
- » Different capacities



**Technical Data**

| Basic data   |                   |
|--------------|-------------------|
| Power supply | 3 x 400 V / 50 Hz |

**Order Data**

| Art. No.            | Description  |
|---------------------|--|
| <b>921 0360 130</b> | KDCF 355-2, 2,2 KW / 2,000 - 4,000 m <sup>3</sup> /h   |
| <b>921 0480 140</b> | KDCF 355-2, 3,0 KW / 3,000 - 5,000 m <sup>3</sup> /h   |
| <b>921 0510 170</b> | KDCF 400-2, 4,0 KW / 4,000 - 7,000 m <sup>3</sup> /h   |
| <b>921 0700 170</b> | KDCF 400-2, 5,5 KW / 6,000 - 9,000 m <sup>3</sup> /h   |
| <b>921 0750 230</b> | KDCF 400-2, 11,0 KW / 6,000 - 10,000 m <sup>3</sup> /h |

\*Suitable accessories available upon request



## Exhaust Fan

- » Mobile
- » Ventilation



### Applications

- » High levels of smoke and dust
- » Non-stop operation
- » For ventilation and extraction

### Benefits

- » High flexibility since blower can be used both for ventilation and extraction
- » Very quiet and spark-proof due to cast silumin housing
- » Suitable for use on construction sites due to robust construction

### Properties

- » Housing and fan of cast silumin
- » Portable and mobile
- » 2,000m<sup>3</sup>/h version: suction hose Ø 100 mm, Ø 150 mm, outgoing air hose Ø 160 mm connectable
- » 3,000m<sup>3</sup>/h version: Suction hose Ø250mm connectable

### Technical Data

#### Additional information

|          |            |
|----------|------------|
| Fan type | Radial fan |
|----------|------------|

### Order Data

| Art. No.   | Extraction capacity     | Maximum vacuum | Dimensions (w x d x h) | Power supply      | Motor power |
|------------|-------------------------|----------------|------------------------|-------------------|-------------|
| 91 623     | 2,000 m <sup>3</sup> /h | 1,350 Pa       | 600 x 600 x 750 mm     | 3 x 400 V / 50 Hz | 0,75 kW     |
| 91 623 100 | 2,000 m <sup>3</sup> /h | 1,350 Pa       | 600 x 600 x 750 mm     | 1 x 230 V / 50 Hz | 0.75 kW     |
| 91 618     | 3,000 m <sup>3</sup> /h | 1,950 Pa       | 600 x 790 x 750 mm     | 3 x 400 V / 50 Hz | 1,5 kW      |
| 91 618 100 | 3,000 m <sup>3</sup> /h | 1,950 Pa       | 600 x 790 x 750 mm     | 1 x 230 V / 50 Hz | 1,5 kW      |

### Further products

| Art. No.   | Description   |
|------------|---|
| 93 082     | Exhaust hose Ø 100 mm, length 6,0 m, incl. exhaust hood with magnetic foot      |
| 93 083     | Exhaust hose Ø 150 mm, length 6,0 m, incl. exhaust hood with magnetic foot      |
| 79 103 31  | Exhaust hood with magnetic foot, including exhaust hose, Ø 150 mm, length 6,0 m |
| 93 087     | Exhaust hose, Ø 250 mm, length 6,0 m, incl. exhaust hood with magnetic foot     |
| 93 087 100 | Exhaust hose Ø 250 mm, length 10,0 m, incl. exhaust hood with magnetic foot     |
| 93 084     | Outgoing air hose, Ø 160 mm, length 6,0 m                                       |
| 93 088     | Outgoing air hose Ø 250 mm, length 6,0 m  |



## Exhaust Set

- » Flexible operation
- » Up to 4 m reach



### Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » As a flexible exhaust arm: Polyester fabric hose, PVC coated with welded steel wire spiral
- » As a rigid metal tube arm: Powder-coated aluminum tube, three flexible hose sections
- » Fan made of spark-proof cast silumin

### Scope of supply

- » Fan
- » Exhaust arm with hood
- » Wall bracket
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet

### Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Where filtration is not essential
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes

### Benefits

- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Arm keeps position due to self-supporting design

### Technical Data

| Basic data             |                         |
|------------------------|-------------------------|
| Extraction capacity    | 1,000 m <sup>3</sup> /h |
| Motor power            | 0,75 kW                 |
| Power supply           | 3 x 400 V / 50 Hz       |
| Rated current          | 1.5 A                   |
| Noise level            | 73 dB(A)                |
| Additional information |                         |
| Fan type               | Radial fan              |

### Order Data

| Art. No.          | Description                   |
|-------------------|-------------------------------|
| <b>79 002 201</b> | 2 m Arm, flexible exhaust arm |
| <b>79 003 201</b> | 3 m Arm, flexible exhaust arm |
| <b>79 004 201</b> | 4 m Arm, flexible exhaust arm |
| <b>79 502 201</b> | 2 m Arm, rigid metal tube arm |
| <b>79 503 201</b> | 3 m Arm, rigid metal tube arm |
| <b>79 504 201</b> | 4 m Arm, rigid metal tube arm |



## Extraction set - one-piece boom

- » Flexible operation
- » Up to 7 m reach



### Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Where filtration is not essential
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes

### Benefits

- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage
- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Flexible, fast work due to long reach

### Properties

- » 360 degrees rotating exhaust hood with damper
- » Self-supported by internal springs
- » Fan made of spark-proof cast silumin
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage

### Scope of supply

- » Fan
- » Exhaust arm with hood
- » Wall bracket
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet

#### Additional information

|          |            |
|----------|------------|
| Fan type | Radial fan |
|----------|------------|

#### Basic data

|              |                   |
|--------------|-------------------|
| Power supply | 3 x 400 V / 50 Hz |
| Noise level  | 73 dB(A)          |

### Order Data

| Art. No.   | Description                   | Length of exhaust arm | Length of boom | Extraction capacity     | Motor power | Rated current |
|------------|-------------------------------|-----------------------|----------------|-------------------------|-------------|---------------|
| 79 205 201 | 5 m Arm, flexible exhaust arm | 3 m                   | 2 m            | 950 m <sup>3</sup> /h   | 0.75 kW     | 1.5 A         |
| 79 206 201 | 6 m Arm, flexible exhaust arm | 4 m                   | 2 m            | 950 m <sup>3</sup> /h   | 0.75 kW     | 1.5 A         |
| 79 007 201 | 7 m Arm, flexible exhaust arm | 4 m                   | 3 m            | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 705 201 | 5m Arm, rigid metal tube arm  | 3 m                   | 2 m            | 950 m <sup>3</sup> /h   | 0.75 kW     | 1.5 A         |
| 79 706 201 | 6 m Arm, rigid metal tube arm | 4 m                   | 2 m            | 950 m <sup>3</sup> /h   | 0.75 kW     | 1.5 A         |
| 79 507 201 | 7m Arm, rigid metal tube arm  | 4 m                   | 3 m            | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |

## Extraction set - two-piece boom

- » Flexible operation
- » Up to 10 m reach



### Properties

- » 360 degrees rotating exhaust hood with damper
- » Fan made of spark-proof cast silumin
- » Boom with 50 kg load capacity
- » Boom with integrated C-rail with carriage

### Scope of supply

- » Fan
- » Exhaust arm with hood
- » Boom
- » Motor protection switch
- » Set of connecting material
- » Connecting pipe extendable from 1,25 m to 5 m with outlet

#### Basic data

|              |                   |
|--------------|-------------------|
| Power supply | 3 x 400 V / 50 Hz |
| Noise level  | 73 dB(A)          |

### Applications

- » High levels of smoke and dust
- » Non-stop operation
- » Welding fumes, gases, vapours, light dusts, car exhaust fumes

### Benefits

- » Very quiet due to housing of cast silumin
- » 40% less adjustment of the exhaust arm needed due to exhaust hood design
- » User-friendly due to particularly smooth movement of the hood with one hand
- » Reduced tripping hazard by attaching tools or wire feed unit to the boom with carriage

#### Additional information

|          |            |
|----------|------------|
| Fan type | Radial fan |
|----------|------------|

### Order Data

| Art. No.   | Description                    | Length of exhaust arm | Length of boom | Extraction capacity     | Motor power | Rated current |
|------------|--------------------------------|-----------------------|----------------|-------------------------|-------------|---------------|
| 79 307 201 | 7 m Arm, flexible exhaust arm  | 3 m                   | 2,5 + 1,5 m    | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 308 201 | 8 m Arm, flexible exhaust arm  | 4 m                   | 2,5 + 1,5 m    | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 409 201 | 9 m Arm, flexible exhaust arm  | 3 m                   | 4 + 2 m        | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 410 201 | 10 m Arm, flexible exhaust arm | 4 m                   | 4 + 2 m        | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 807 201 | 7 m Arm, rigid metal tube arm  | 3 m                   | 2,5 + 1,5 m    | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 808 201 | 8 m Arm, rigid metal tube arm  | 4 m                   | 2,5 + 1,5 m    | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 909 201 | 9m Arm, rigid metal tube arm   | 3 m                   | 4 + 2 m        | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |
| 79 910 201 | 10 m Arm, rigid metal tube arm | 4 m                   | 4 + 2 m        | 1,000 m <sup>3</sup> /h | 1.1 kW      | 2.3 A         |





### Replacement hood

For exhaust sets

| Art. No.   | Description   |
|------------|---|
| 79 103 048 | Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (original fitted)          |
| 79 103 034 | Lighting kit incl. Exhaust hood, 2 x 5 W LED lights, Trafo-Box (retrofit for exhaust arm) |



### Replacement hood

Exhaust hood as replacement for the exhaust arms and telescopic exhaust arms, incl. swivel joint and fastening.

| Art. No.  | Description  |
|-----------|--------------|
| 79 103 00 | Exhaust hood |



### Wall bracket for fan

For the connection of hoses, for fans up to 2,200 m<sup>3</sup>/h

| Art. No. | Description        |
|----------|--------------------|
| 93 002   | For 1 hose Ø100mm  |
| 93 001   | For 1 hose Ø150mm  |
| 93 005   | For 1 hose Ø160mm  |
| 93 003   | For 2 hoses Ø100mm |
| 93 004   | For 2 hoses Ø150mm |
| 93 006   | For 2 hoses Ø160mm |



### Connecting material

Complete set to fasten an outgoing air hose, diam. 160 mm, to the air escape side of the ventilator or to the wall bracket of an exhaust arm.

| Art. No. | Description                        |
|----------|------------------------------------|
| 93 018   | Set of connecting material Ø160 mm |



### Connecting pipe

Ø 160 mm out of multilayer aluminium foil, extendable from 1,25 m to 5 m max.

| Art. No. | Description            |
|----------|------------------------|
| 93 200   | Connecting pipe Ø160mm |



### Rubber rings

| Art. No. | Description            |
|----------|------------------------|
| 106 0290 | Rubber rings set of 10 |

**Replacement hose for flexible exhaust arm**

Replacement hoses for exhaust arms and telescopic exhaust arms. Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No. | Description                    |
|----------|--------------------------------|
| 114 0348 | For exhaust arms 2,0 m, Ø150mm |
| 114 0349 | For exhaust arms 3,0 m, Ø150mm |
| 114 0350 | For exhaust arms 4,0 m, Ø150mm |



**Replacement hoses for rigid metal tube arms**

Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No.  | Description                       |
|-----------|-----------------------------------|
| 79 103 40 | Set of replacement hoses (3 pcs.) |



**High temperature replacement hose for rigid metal tube exhaust arm**

Polyester hose with PVC coating and an internal steel wire spiral.

| Art. No.  | Description              |
|-----------|--------------------------|
| 79 103 10 | Set of HT hoses (3 pcs.) |



**Replacement hose for telescopic exhaust arm**

Polyester hose with PVC coating and an internal steel wire spiral

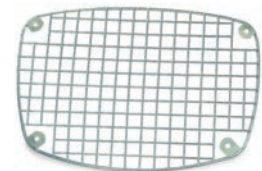
| Art. No.   | Description                                      |
|------------|--|
| 93 081 107 | Length 1,5 m for telescopic exhaust arms, Ø150mm |
| 93 081 106 | Length 2,0 m for telescopic exhaust arms, Ø150mm |



**Protective mesh**

Replacement mesh for the KEMPER exhaust hood

| Art. No. | Description                      |
|----------|----------------------------------|
| 127 0091 | Protection mesh for exhaust hood |





### Automatic start-stop

The KEMPER automatic start-stop automatically switches the fan on or off, as soon as the welding process has been started or finished. Fans and automatic start-stop sensor will be connected to the provided control-box, which will be mounted to a wall or a column.

| Art. No. | Description          |
|----------|----------------------|
| 94 102   | Automatic start-stop |



### Connecting material

Complete set to fasten an outgoing air hose, diam. 160 mm, to the air escape side of the ventilator or to the wall bracket of an exhaust arm.

| Art. No. | Description                        |
|----------|------------------------------------|
| 93 018   | Set of connecting material Ø160 mm |



### Connecting pipe

Ø 160 mm out of multilayer aluminium foil, extendable from 1,25 m to 5 m max.

| Art. No. | Description            |
|----------|------------------------|
| 93 200   | Connecting pipe Ø160mm |



### Blow out piece

Blow out piece with bird protective mesh, galvanised, Ø 160 mm

| Art. No. | Description   |
|----------|---|
| 93 045   | Blow out piece with bird protective mesh Ø160mm, galvanised |



### Silencer

For fans.

| Art. No. | Description  |
|----------|--|
| 93 051   | Silencer Ø160mm for fans   |
| 93 053   | Silencer for the escape side of the ventilator, diam. 250 mm including fixture material for the fan with a capacity of 3.000 m <sup>3</sup> /h |

**Motor protection switches**

The following motor protection switches can be used for the electrical connection of KEMPER fans. In the following table you can find the corresponding switch easily.

| Art. No.   | Description   |
|------------|---|
| 94 170 124 | Motor protection switch for fan 92 101, 92 103, 92 106, 0,55 kW · 3 x 400 V · 50 Hz |
| 94 170 119 | Motor protection switch for fan 92 102, 0,55 kW · 1 x 230 V · 50 Hz                 |
| 94 170 123 | Motor protection switch for fan 92 104, 0,75 kW · 3 x 400 V · 50 Hz                 |
| 94 170 118 | Motor protection switch for fan 92 105, 0,75 kW · 1 x 230 V · 50 Hz                 |
| 94 170 121 | Motor protection switch for fan 92 104 100, 1,10 kW · 3 x 400 V · 50 Hz             |
| 94 170 122 | Motor protection switch for fan 92 104 116, 1,10 kW · 3 x 500 V · 50 Hz             |
| 94 170 120 | Motor protection switch for fan 92 215, 1,50 kW · 3 x 400 V · 50 Hz                 |
| 94 170 116 | Motor protection switch for fan 92 215 111, 1,50 kW · 1 x 230 V · 50 Hz             |



**Wall bracket for fan**

For the connection of hoses, for fans up to 2,200 m<sup>3</sup>/h

| Art. No. | Description        |
|----------|--------------------|
| 93 002   | For 1 hose Ø100mm  |
| 93 001   | For 1 hose Ø150mm  |
| 93 005   | For 1 hose Ø160mm  |
| 93 003   | For 2 hoses Ø100mm |
| 93 004   | For 2 hoses Ø150mm |
| 93 006   | For 2 hoses Ø160mm |



**Exhaust hose with nozzle**

| Art. No. | Description  |
|----------|--|
| 93 082   | Exhaust hose Ø100mm, length 6,0 m, incl. exhaust hood with magnetic foot |
| 93 083   | Exhaust hose Ø150mm, length 6,0 m, incl. exhaust hood with magnetic foot |



**Exhaust hood with magnetic foot**

| Art. No.  | Description   |
|-----------|---|
| 79 103 31 | Exhaust hood with magnetic foot, including exhaust hose, Ø150mm, length 6,0 m |





### Exhaust hood with magnetic foot

| Art. No.  | Description   |
|-----------|---|
| 79 103 31 | Exhaust hood with magnetic foot, including exhaust hose, Ø150mm, length 6,0 m |



### Exhaust hose with nozzle

| Art. No.   | Description   |
|------------|---|
| 93 082     | Exhaust hose Ø100mm, length 6,0 m, incl. exhaust hood with magnetic foot  |
| 93 083     | Exhaust hose Ø150mm, length 6,0 m, incl. exhaust hood with magnetic foot  |
| 93 087     | Exhaust hose, Ø250mm, length 6,0 m, incl. exhaust hood with magnetic foot |
| 93 087 100 | Exhaust hose Ø250mm, length 10,0 m, incl. exhaust hood with magnetic foot |



### Outgoing air hose

| Art. No. | Description                             |
|----------|---|
| 93 084   | Outgoing air hose, Ø160mm, length 6,0 m |
| 93 088   | Outgoing air hose Ø250mm, length 6,0 m  |

## Suction And Pressure Hose



### Order Data

| Art. No. | Description           |
|----------|-----------------------|
| 114 0478 | Length 3 m, Ø 100 mm  |
| 114 0477 | Length 6 m, Ø 100 mm  |
| 114 0343 | Length 10 m, Ø 100 mm |
| 114 0479 | Length 3 m, Ø 150 mm  |
| 114 0480 | Length 6 m, Ø 150 mm  |
| 114 0328 | Length 10 m, Ø 150 mm |
| 114 0481 | Length 3 m, Ø 160 mm  |
| 114 0482 | Length 6 m, Ø 160 mm  |
| 114 0146 | Length 10 m, Ø 160 mm |
| 114 0483 | Length 3 m, Ø 250 mm  |
| 114 0484 | Length 6 m, Ø 250 mm  |
| 114 0485 | Length 10 m, Ø 250 mm |

### Applications

- » Air conditioning and ventilation
- » Welding gas and smoke extraction

### Properties

- » PVC coated polyester fabric
- » Very light and flexible
- » Fire retardant and compressible
- » Temperature range : up to + 100 °C

## PU-Extraction And Conveying Hose

### Order Data

| Art. No. | Description           |
|----------|-----------------------|
| 114 0435 | Length 2 m, Ø 200 mm  |
| 114 0490 | Length 10 m, Ø 200 mm |
| 114 0370 | Length 2 m, Ø 250 mm  |
| 114 0572 | Length 10 m, Ø 250 mm |

### Properties

- » Polyester polyurethane with moulded spring coiled wire reinforcement
- » Very light and flexible
- » Very resistant against abrasion
- » Temperature range : -40 °C to +90 °C, short term + 125 °C



### Applications

- » Extraction of gases
- » Protection hose against mechanical strain
- » Transport of fine particles, dusts and powder

### Order Data

| Art. No. | Description            |
|----------|------------------------|
| 114 0491 | Length 2,5 m, Ø 150 mm |
| 114 0492 | Length 5 m, Ø 150 mm   |
| 114 0493 | Length 7,5 m, Ø 150 mm |
| 114 0494 | Length 2,5 m, Ø 200 mm |
| 114 0495 | Length 5 m, Ø 200 mm   |
| 114 0496 | Length 7,5 m, Ø 200 mm |
| 114 0497 | Length 2,5 m, Ø 250 mm |
| 114 0498 | Length 5 m, Ø 250 mm   |
| 114 0499 | Length 7,5 m, Ø 250 mm |

### Properties

- » Silicon coated glass fibre fabric, single layered
- » Heat resistant
- » Good flexibility when cold
- » Temperature range : -85 °C to +300 °C

## Silicone Hose



### Applications

- » Extraction of hot vapours and gases

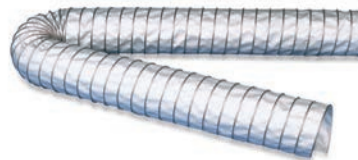
### Order Data

| Art. No. | Description           |
|----------|-----------------------|
| 114 0203 | Length 3 m, Ø 80 mm   |
| 114 0204 | Length 6 m, Ø 80 mm   |
| 114 0199 | Length 8 m, Ø 150 mm  |
| 114 0200 | Length 10 m, Ø 150 mm |
| 114 0182 | Length 3 m, Ø 165 mm  |
| 114 0486 | Length 6 m, Ø 165 mm  |
| 114 0487 | Length 3 m, Ø 200 mm  |
| 114 0488 | Length 6 m, Ø 200 mm  |

### Properties

- » Special coated high temperature resistant fabric, reinforced with stainless steel wire
- » Highly flexible and compressible
- » Temperature range : -20 °C to +400 °C, short term +450 °C

## High Temperature Hose + 400°C



### Applications

- » Extraction of hot air or gases at exhaust systems





# Extraction And Cutting Tables

## Tables For Manual Applications

|                                 |    |
|---------------------------------|----|
| Grinding Table                  | 94 |
| Welding Table                   | 95 |
| Hand Cutting Table With Fixture | 96 |
| Welding Training Table          | 97 |
| Training table                  | 98 |
| Filter-Table                    | 99 |

## Overview - Extraction Tables For Cutting Systems

|                         |     |
|-------------------------|-----|
| Worth Knowing           | 100 |
| Overview cutting tables | 101 |
| KEMPER EasyFrame        | 102 |

## Extraction Tables For Cutting Systems

|                |     |
|----------------|-----|
| KemTab Basic   | 103 |
| KemTab Advance | 104 |
| KemTab HiEnd   | 105 |
| KemTab Vibro   | 106 |



## Grinding Table

- » Robust
- » Rear wall extraction



### Applications

- » Industrial grinding of machined workpieces

### Benefits

- » Safe working due to robust material support
- » Side walls can be folded away so also suitable for larger workpieces
- » Reduced noise levels due to soundproofed side walls
- » Higher degree of grinding dust capture due to the rear wall extraction
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to the ergonomically adapted sheet steel construction

### Properties

- » Robust grid-type material support
- » Side walls can be folded down
- » Side walls with sound insulation material
- » Rear wall extraction
- » Integrated slag tray
- » Connection and integration into an existing extraction system

### Order Data

| Art. No.           | Description                           |
|--------------------|---------------------------------------|
| <b>99 820 0004</b> | (W x D x H): 1,010 x 1,060 x 1,700 mm |
| <b>99 820 0023</b> | (W x D x H): 1,360 x 1,060 x 1,700 mm |
| <b>99 820 0029</b> | (W x D x H): 1,510 x 1,060 x 1,700 mm |
| <b>99 820 0016</b> | (W x D x H): 2,000 x 1,060 x 1,700 mm |

### Suitable filter unit

| Table              | Suitable filter unit |
|--------------------|----------------------|
| <b>99 820 0004</b> | 81 0250 030          |
| <b>99 820 0023</b> | 81 0300 030          |
| <b>99 820 0029</b> | 81 0400 040          |
| <b>99 820 0016</b> | 81 0450 050          |



## Welding tables

### Properties

- » Robust grid-type material support
- » Integrated slag tray
- » Welded, ergonomically adapted sheet steel construction
- » Can be connected to filtration system or fan

### Applications

- » Manual working on small metal parts

### Benefits

- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to ergonomically adapted sheet steel construction

### Welding Table

| Art. No.    | Description   |
|-------------|---|
| 950 490 047 | table dimensions: w = 1,000 mm, d = 800 mm, h = 850 mm, connection spigot: diam. 160 mm |
| 950 490 048 | table dimensions: w = 1,500 mm, d = 800 mm, h = 850 mm, connection spigot: diam. 250 mm |
| 950 490 049 | table dimensions: w = 2,000 mm, d = 800 mm, h = 850 mm, connection spigot: diam. 250 mm |

### Suitable filter unit

| Table       | Suitable filter unit |
|-------------|----------------------|
| 950 490 047 | 81 0200 020          |
| 950 490 048 | 81 0250 030          |
| 950 490 049 | 81 0300 030          |



### Welding Table With Fan

| Art. No.   | Description  |
|------------|--|
| 95 021 111 | extraction capacity: 2,200 m <sup>3</sup> /h · 1,1 kW · 3 x 400 V · 50 Hz table dimensions: w = 1,000 mm, d = 800 mm, h = 850 mm |
| 95 021 112 | extraction capacity: 3,000 m <sup>3</sup> /h · 1,5 kW · 3 x 400 V · 50 Hz table dimensions: w = 1,500 mm, d = 800 mm, h = 850 mm |
| 95 021 113 | extraction capacity: 3,000 m <sup>3</sup> /h · 1,5 kW · 3 x 400 V · 50 Hz table dimensions: w = 2,000 mm, d = 800 mm, h = 850 mm |



## Hand Cutting Table With Fixture

### Applications

- » Gas cutting by hand
- » Apprenticeship, research and training centres
- » Educational departments in companies

### Benefits

- » Both hands are free to work thanks to the foot-operated mechanism for clamping the workpiece
- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray
- » Comfortable to work with thanks to ergonomically adapted sheet steel construction

### Properties

- » Workpiece clamping device with foot-operated mechanism for holding gas cutting equipment
- » Integrated slag tray
- » Suitable for connection to central extraction and filtering systems
- » Robust steel plate construction



### Hand Cutting Table With Fixture

| Art. No. | Description   |
|----------|---|
| 99 841   | dimensions: w = 1,000 mm, d = 650 mm, h = 800 mm, extraction spigot: Ø160mm |



### Hand Cutting Table With Fixture

| Art. No.    | Description   |
|-------------|---|
| 99 840 0260 | dimensions: w = 1,500 mm, d = 850 mm, h = 800 mm, extraction spigot: Ø160mm |
| 99 840 0259 | dimensions: w = 1,050 mm, d = 850 mm, h = 800 mm, extraction spigot: Ø160mm |

### Suitable filter unit

| Table       | Suitable filter unit |
|-------------|----------------------|
| 99 841      | 81 0200 020          |
| 99 840 0259 | 81 0250 030          |
| 99 840 0260 | 81 0250 030          |

**Applications**

- » Flat and deep welding
- » Apprenticeship and training centres
- » Educational departments in companies

**Benefits**

- » Due to the division of the work surface, two welding processes can be practiced at one workplace
- » Durable due to robust steel construction

**Properties**

- » Robust steel profile construction
- » Two-section work surface: iron bar grating and sheet steel support surface with refractory material
- » Can be integrated into KEMPER extraction booths

**Scope of supply**

- » Iron bar grating
- » Robust, welded, steel profile construction
- » Sheet steel support surface with refractory material

**Accessories**

- » Forced position welding fixture

**Welding Training Table**

- » Different sizes
- » Can be integrated into welding cabins



**Order Data**

| Art. No.    | Description  |
|-------------|--|
| 95 020      | table dimensions: w = 600 mm, d = 600 mm, h = 800 mm, without drawer   |
| 95 021      | table dimensions: w = 600 mm, d = 900 mm, h = 800 mm, without drawer   |
| 95 026      | table dimensions: w = 600 mm, d = 1,200 mm, h = 800 mm, without drawer |
| 95 020 300  | table dimensions: w = 600 mm, d = 600 mm, h = 800 mm, with drawer      |
| 95 021 300  | table dimensions: w = 600 mm, d = 900 mm, h = 800 mm, with drawer      |
| 95 026 300  | table dimensions: w = 600 mm, d = 1,200 mm, h = 800 mm, with drawer    |
| 998 800 011 | Forced position welding fixture  |



## Training table

- » Compact and solid
- » Wide range of accessories



### Applications

- » Apprenticeship and training centres
- » Educational departments in companies

### Benefits

- » Durable due to robust steel construction
- » Easy cleaning thanks to the integrated slag tray

### Properties

- » Connection spigot 160 mm
- » Robust steel construction
- » Can be integrated into KEMPER extraction booths
- » Integrated slag tray
- » For connection to central extraction and filtering systems

### Scope of supply

- » Robust welded steel construction
- » Water container
- » Electrode quiver
- » Tool tray
- » Forced position welding fixture

### Order Data

| Art. No.   | Description                     |
|------------|---------------------------------|
| 950 49 109 | (W x D x H): 600 x 580 x 850 mm |

## Hand Cutting Table

- » Robust
- » Easy cleaning



### Applications

- » Manual working on small metal parts

### Benefits

- » Safe working due to robust material support
- » Easy cleaning thanks to the integrated slag tray

### Properties

- » Connection spigot 160 mm
- » Robust material support fabricated of flat steel
- » Integrated slag tray
- » For connection to central extraction and filtering systems

### Order Data

| Art. No. | Description                      |
|----------|----------------------------------|
| 197 0033 | (W x D x H): 800 x 600 x 800mm   |
| 197 0002 | (W x D x H): 1,108 x 800 x 800mm |

### Suitable filter unit

| Table    | Suitable filter unit |
|----------|----------------------|
| 197 0033 | 81 0200 020          |
| 197 0002 | 81 0250 030          |

\* further sizes available on enquiry/request

**Applications**

- » Low to medium levels of smoke and dust
- » Occasional to frequent use
- » Welding and grinding

**Benefits**

- » Maintenance door allows easy filter change
- » Minimized fire risk due to effective spark trap
- » Downdraft extraction throughout the whole working area
- » Wide range of applications due to large working area of 1,200 x 800 mm

**Properties**

- » Spark separator
- » Large, robust material support
- » Activated charcoal filter (optional)

**Filter-Table**

- » Working table with filter unit
- » Large work surface



**Technical Data**

| <b>Filter</b>                 |                         |
|-------------------------------|-------------------------|
| Filter stages                 | 2                       |
| Filter method                 | Disposable filter       |
| Filter surface                | ca. 15.8 m <sup>2</sup> |
| Type of filter                | Filter cassette         |
| Filter material               | Non-woven fibre         |
| Additional filters            | Pre-filter              |
| <b>Basic data</b>             |                         |
| Extraction capacity           | 1,400 m <sup>3</sup> /h |
| Dimensions (w x d x h)        | 1,200 x 800 x 1,340 mm  |
| Weight                        | 155 kg                  |
| Motor power                   | 1.5 kW                  |
| Power supply                  | 3 x 400 V / 50 Hz       |
| Rated current                 | 3.2 A                   |
| Noise level                   | 71 dB(A)                |
| <b>Additional information</b> |                         |
| Fan type                      | Radial fan              |

**Order Data**

| <b>Art. No.</b>    | <b>Description</b>                   |
|--------------------|--------------------------------------|
| <b>950 400 001</b> | Welding Fume Extraction Filter-Table |
| <b>109 0345</b>    | Activated carbon filter              |
| <b>109 0013</b>    | Aluminum pre-filter                  |
| <b>109 0010</b>    | Main filter                          |



# » KEMPER Extraction tables



## KEMPER Extraction tables

### Extraction segments

To keep extraction needs as low as possible our tables are split into individual segments which can be separately extracted from.

### Fire safety

To prevent fire due to sparks being sucked up, the tables are designed to pre-clean the extracted air.

### Cleaning

Table maintenance is important to ensure smooth functioning of the system. Crane hooks are installed on every element of our extraction tables. This makes them easy to remove the material supports, gratings and dust/slag containers. Containers are designed to make emptying easy.

### Modular design

KEMPER extraction tables consist of individual standard modules that can be connected together. This makes it possible to implement any size of table desired. This standardisation makes combining modules quick and easy.

### Surface extraction

The design of the extraction tables ensures that the dust generated is extracted evenly over the entire table surface area. This yields efficient and safe extraction of dust generated without sparks getting into the filter.

## Important things to know

Cutting systems, of whatever kind, must primarily do one thing – cut in a qualitative and effective optimal manner.

This predicates not only optimal plasma, laser or oxy-fuel systems but a cutting table perfectly tailored to the needs.

That's not all. The smoke that is generated in thermal cutting of metal must be extracted away to prevent any risk arising to the health of anyone in the vicinity. Dust, sparks and smoke represent a risk to machinery as well in the long term and may hamper its functioning.

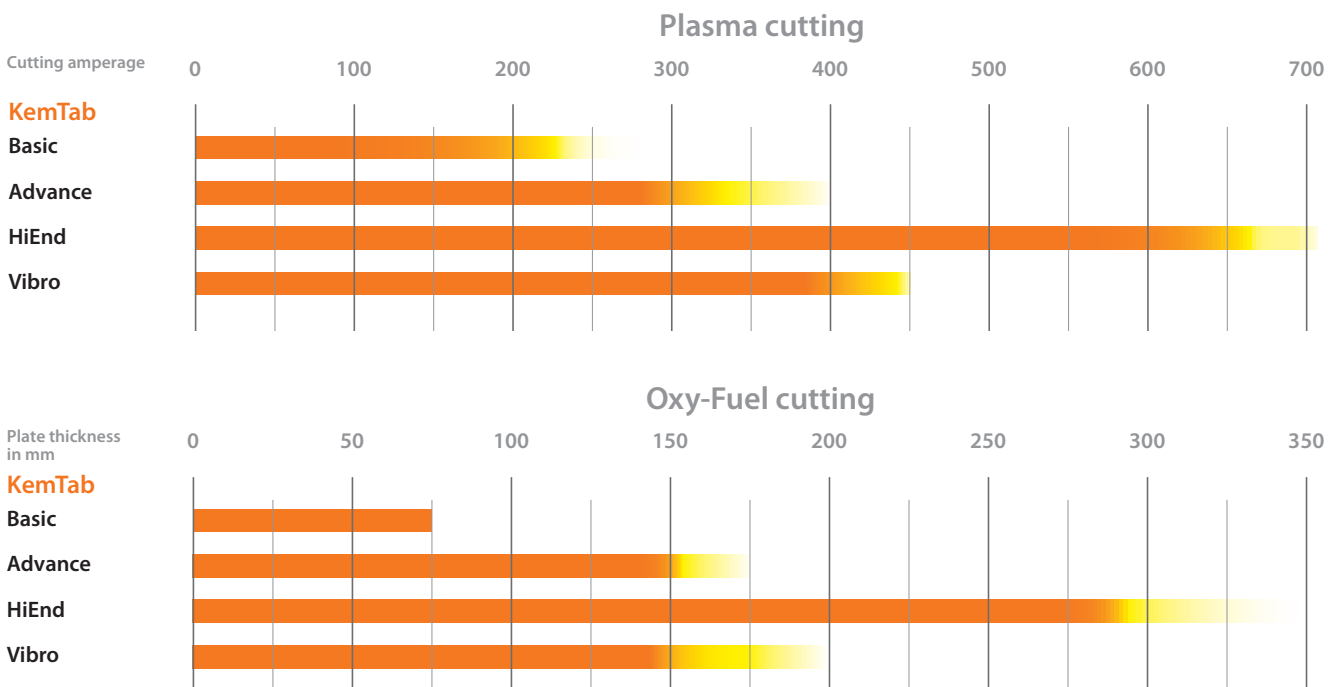
An Extraction system is therefore absolutely essential.

# Summary extraction tables

| Technical Data                           | KemTab Basic | KemTab Advance | KemTab HiEnd | KemTab Vibro |
|--|--------------|----------------|--------------|--------------|
| Capacity steel plates in mm              | 75           | 200            | 300          | 200          |
| Max. width in mm                         | 5,200        | any            | 4,400        | 4,200        |
| Max. length in mm                        | 20,600       | any            | any          | 12,360       |
| Table height in mm                       | 700          | 700            | 850          | 820          |
| Table weight / m <sup>2</sup>            | ca. 180 kg   | ca. 250 kg     | ca. 400 kg   | ca. 300 kg   |
| Segment size in mm                       | 515          | 515            | 515          | 515          |
| Slag boxes                               | ✓            | ✓              | ✓            | -            |
| Material support frame EasyFrame Basic   | ✓            | -              | -            | -            |
| Material support frame EasyFrame Advance | -            | ✓              | -            | ✓            |
| Mechanical control                       | ✓            | ✓              | -            | -            |
| Pneumatic Control                        | ✓            | ✓              | ✓            | ✓            |
| Inductive pneumatic control              | -            | ✓              | ✓            | ✓            |
| Electric pneumatic control               | -            | ✓              | ✓            | ✓            |
| Manual discharge/cleaning                | ✓            | ✓              | ✓            | -            |
| Vibration conveyer                       | -            | -              | -            | ✓            |
| Front duct connection                    | ✓            | ✓              | ✓            | ✓            |
| Under table duct connection              | -            | ✓              | -            | -            |

## Selection criteria extraction tables

This overview illustrates which table is best suitable for the different applications:



# » KEMPER EasyFrame

Plasma cutting at high amperage leads to enormous cutting speeds and clean cuts. But it also leads to a higher strain on the material supports as well as a larger amount of slag. Conventional material supports cannot keep up with the rapid changes in the plasma cutting technology. A short lifespan caused by high erosion and stuck support frames are the result.

With EasyFrame KEMPER has developed a material support that is beyond its time. The material support is up to date and will keep up with the expected increasing demand of the plasma cutting technology in the next years.

## The KEMPER material support

The KEMPER EasyFrame material support is made up of interlocking support bars and deflector plates. The result is a self supporting construction without any support frames and requires no welding work. The support is quickly and easily put together. Due to the construction there is a smaller contact surface for the cutting beam. This leads to less reflection and therefore less erosion and better cutting quality. There is no requirement to clean or service the support, because after the support is worn out it will be completely disposed. The customer can then either

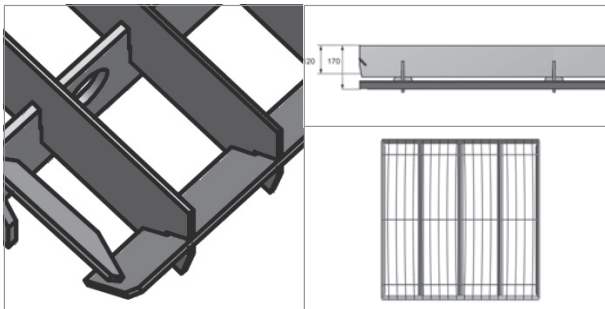
purchase a new support or make one on his own cutting units. Necessary drawings or programs are available from KEMPER.

## Overview of the KEMPER EasyFrame material support:

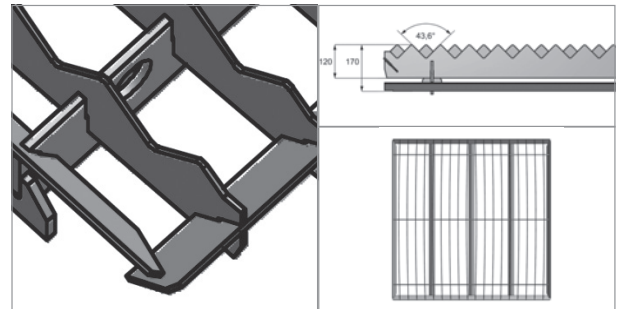
- » Self-supporting material supports, no welded frames
- » Material supports can be completely disposed
- » No possibility of accumulation of slag in the corners and pockets
- » Less reflection of the cutting beam
- » The material support can be made by the customer
- » Cleaner and simpler installation of new frame without any welding work
- » Time-saving disposal of the old frame and installation of the new frame
- » Cleaning of the material support is no longer necessary
- » Optimal solution for use with magnet crane

**We provide a wide range of other cutting grids for a variety of applications.**

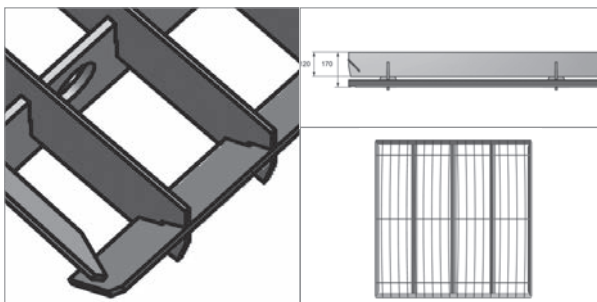
**Upon request we will gladly send you comprehensive information.**



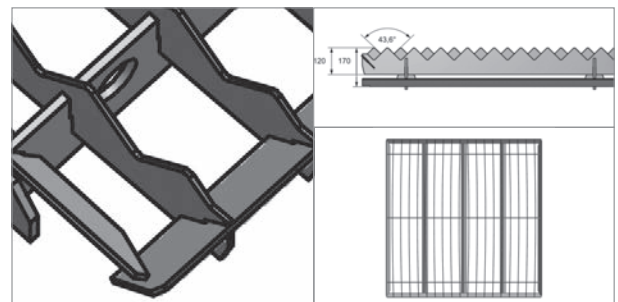
KEMPER EasyFrame Basic, straight support bars



KEMPER EasyFrame Basic, serrated support bars



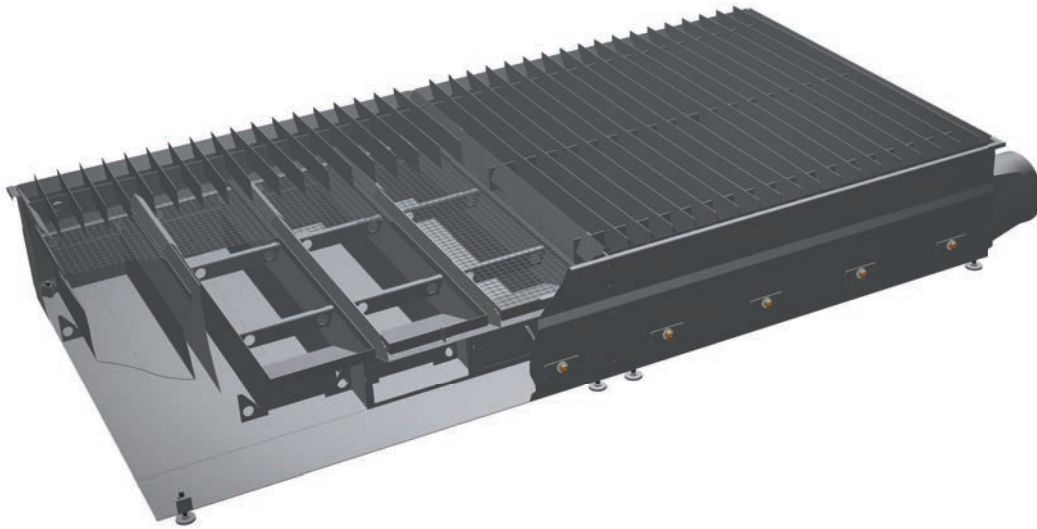
KEMPER EasyFrame Advance, straight support bars



KEMPER EasyFrame Advance, serrated support bars

## KemTab Basic

- » Basic type
- » Mechanical control



### Benefits

- » Better cut quality and less wear due to innovative design of the material support easyFRAME
- » No external follow-up costs caused by in-house production of wear parts due to easyFRAME
- » No cleaning or maintenance required on the material support as it can be easily replaced (easyFRAME)
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » Time and cost savings when cleaning the table due to large slag trays and thus longer cleaning intervals
- » Flexible table size design due to modular system (length, width)

### Applications

- » For plasma cutting up to 150 amps (short peaks 250 A)
- » For gas cutting with sheet metal up to 75 mm thick

### Properties

- » Low extraction volume
- » easyFRAME material support
- » Large slag trays
- » Mechanical control of the extraction damper in the individual table segments
- » Modular design

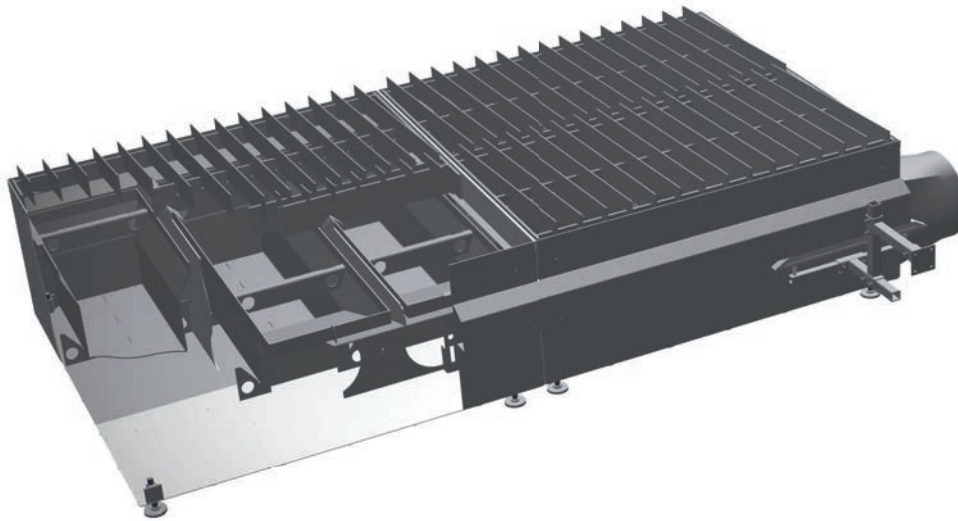
### Technical Data

| Basic data             |  |
|------------------------|--|
| Module widths          | 1.100 mm, 1.600 mm, 2.100 mm, 2.600 mm, 3.100 mm |
| Working height         | 800 mm   |
| Table height           | 700 mm   |
| Segment distance       | 515 mm   |
| Material support frame | EasyFrame Basic                                  |



## KemTab Advance

- » For high requirements
- » Different control possibilities



### Applications

- » For plasma cutting up to 300 amps (short peaks 400 A)
- » For gas cutting with sheet metal up to 150 mm thick

### Properties

- » Low extraction volume
- » Standard material support or easyFRAME
- » Large slag trays
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Modular design

### Technical Data

#### Basic data

|                        |   |
|------------------------|---|
| Module widths          | 1.100 mm, 1.600 mm, 2.100 mm,<br>2.600 mm, 3.100 mm ... |
| Table height           | 700 mm  |
| Segment distance       | 515 mm  |
| Material support frame | EasyFrame Advance                                       |

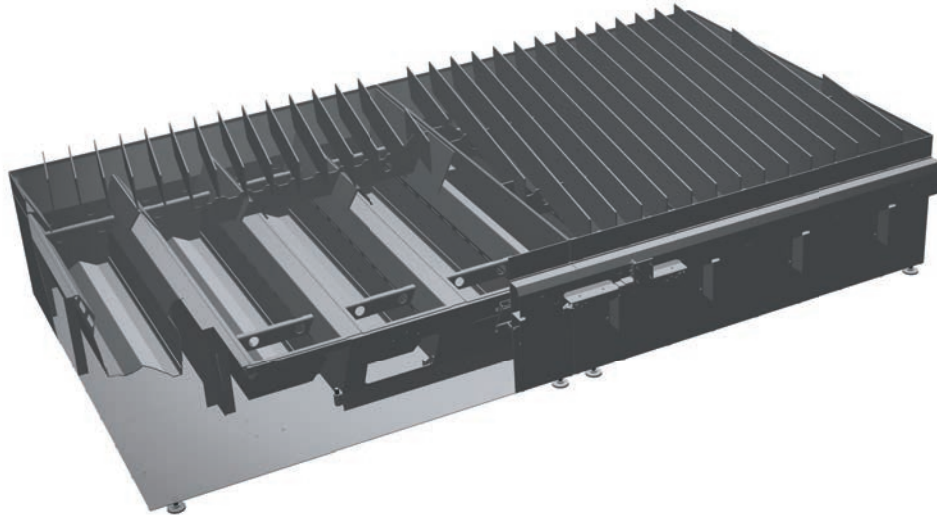
Additional table widths on request.

### Benefits

- » Better cut quality and less wear due to innovative design of the material support easyFRAME
- » No external follow-up costs caused by in-house production of wear parts due to easyFRAME
- » No cleaning or maintenance required on the material support as it can be easily replaced (easyFRAME)
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Time and cost savings when cleaning the table due to large slag trays and thus longer cleaning intervals
- » Flexible table size design due to modular system (length, width)

## KemTab HiEnd

- » For highest requirements
- » Different pneumatic control possibilities



### Benefits

- » Use with particularly high cutting currents and material thicknesses possible due to the material support surface and table construction being separate and due to the external pneumatic system
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Time and cost savings when cleaning the table due to large slag trays and thus longer cleaning intervals
- » Low wear on the pneumatic system since it is separated from the air stream

### Applications

- » For plasma cutting of up to 600 Ampere (short term 800 A and higher)
- » For gas cutting with sheet metal up to 300 mm thick

### Properties

- » Low extraction volume
- » Robust, self-supporting material support
- » Material support and lower part of the table are separate from each other
- » Large, reinforced slag trays
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Air flow and mechanical system are separated from each other
- » Modular design

### Technical Data

| Basic data       |  |
|------------------|--|
| Table width      | 2.200 mm, 2.700 mm, 3.100 mm, 4.400 mm |
| Table height     | 850 mm                                 |
| Table lengths    | Any                                    |
| Segment distance | 515 mm                                 |



## KemTab Vibro

- » For high requirements
- » Vibration conveyor



### Applications

- » For plasma cutting up to 400 amps (short peaks 450 A)
- » For gas cutting with sheet metal up to 150 mm thick

### Properties

- » Automatic discharge of slag by vibration conveyor
- » Low extraction volume
- » Standard material support or easyFRAME
- » Various pneumatic control options of the extraction damper in the individual table segments
- » Exterior pneumatic system
- » Air flow and mechanical system are separated from each other
- » Modular design

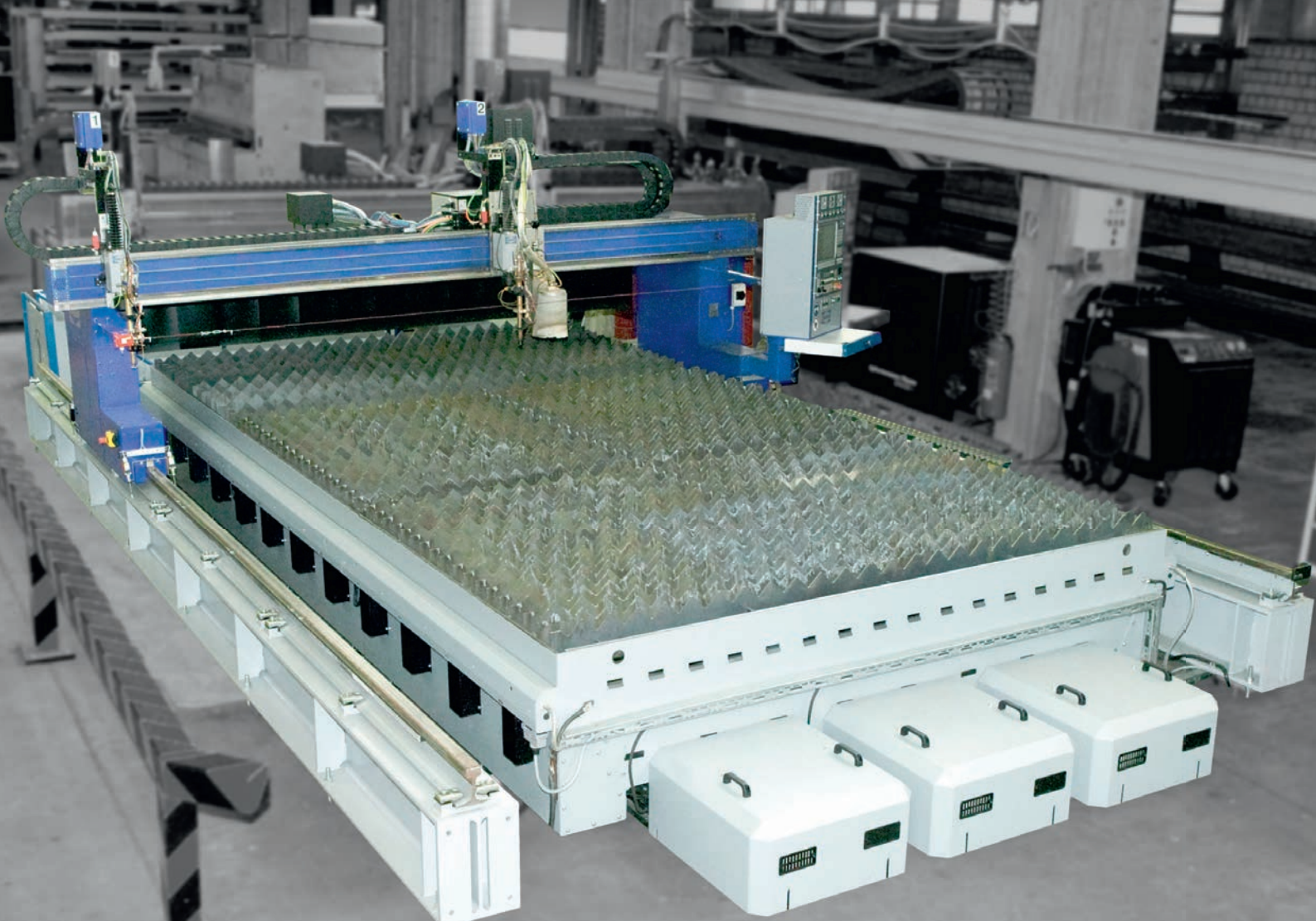
### Technical Data

#### Basic data

|                        |  |
|------------------------|--|
| Module widths          | 2.100 mm, 2.600 mm, 3.100 mm, 4.200 mm |
| Table height           | 820 mm                                 |
| Material support frame | EasyFrame Advance                      |

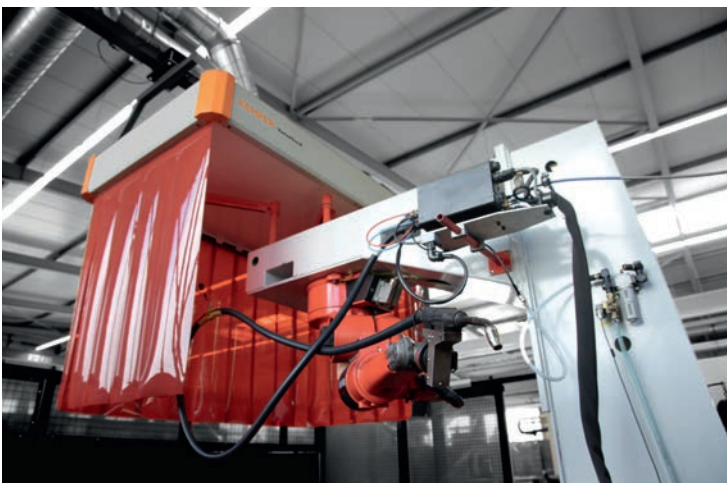
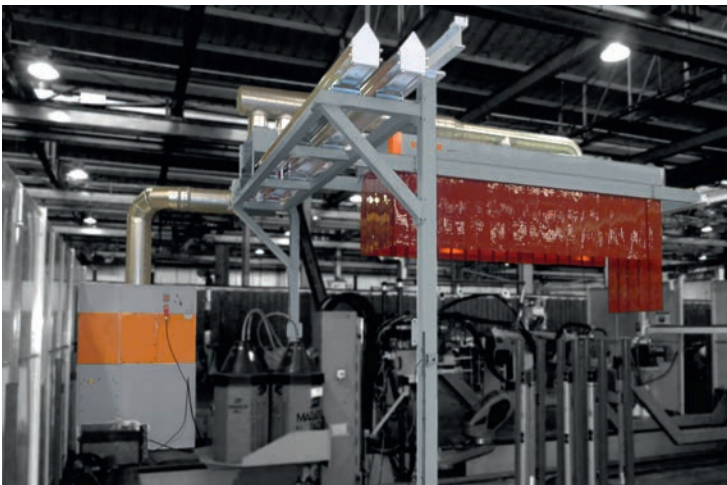
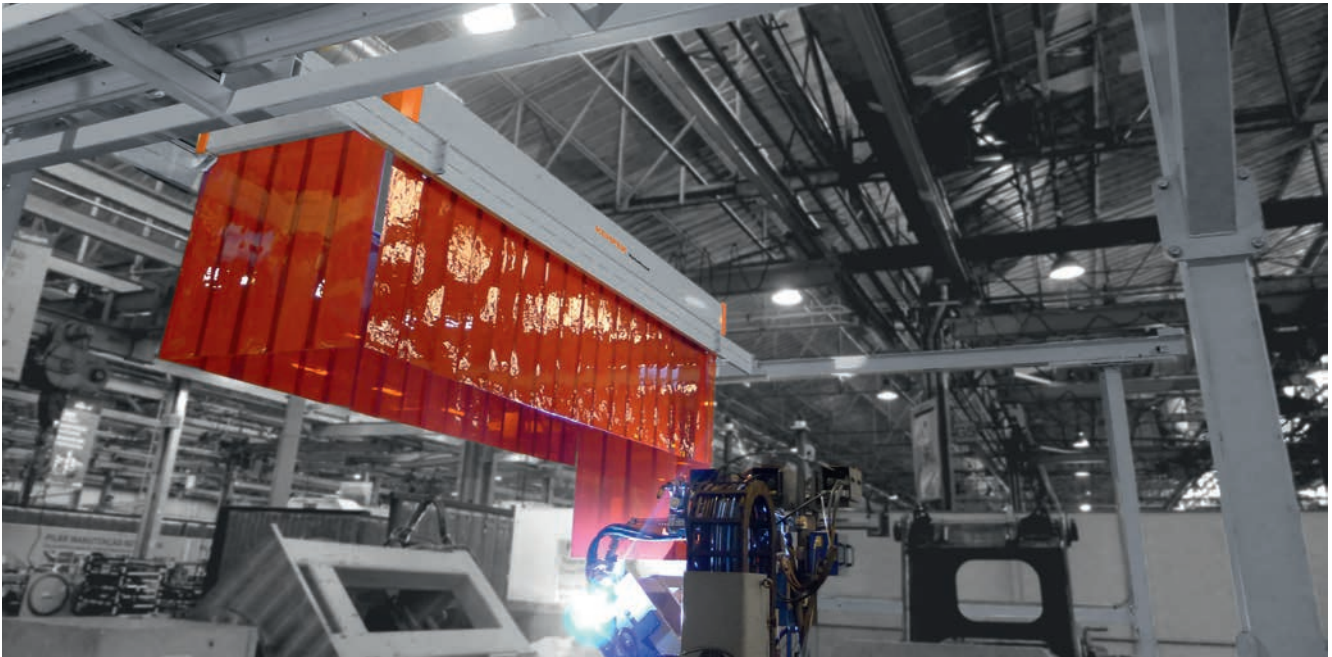
### Benefits

- » Better utilization and efficiency of the cutting system due to automatic waste discharge and therefore minimal downtime for cleaning
- » Better cut quality and less wear due to innovative design of the material support easyFRAME
- » No external follow-up costs caused by in-house production of wear parts due to easyFRAME
- » No cleaning or maintenance required on the material support as it can be easily replaced (easyFRAME)
- » Energy cost savings due to low extraction volume thanks to individual control of the extraction dampers of the segment in use
- » No mechanical influence of the cutting system in non-contact electronic-pneumatic control of the extraction dampers
- » Low wear on the pneumatic system since it is separated from the air stream



# » VarioHood

Modular exhaust hood



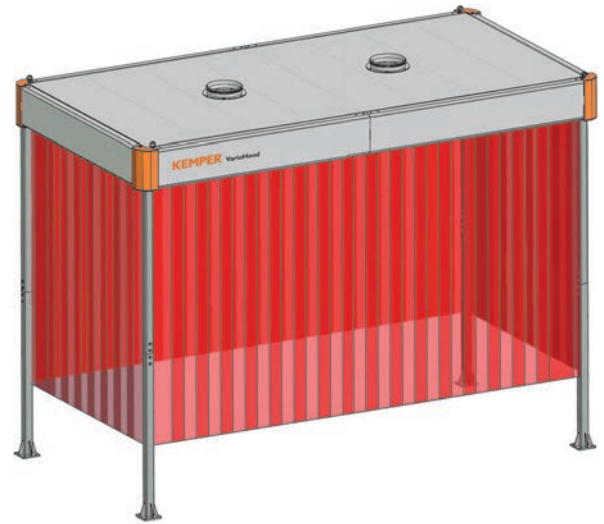
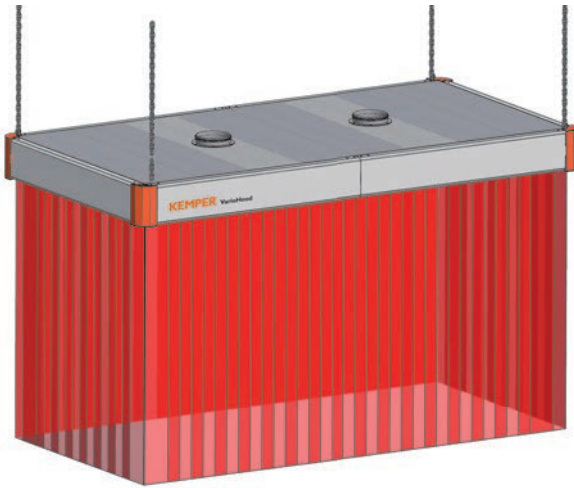
## Mode of operation

Thanks to unique flow principle it is possible to achieve a high extraction efficiency at a very low air volume.

The dust produced is drawn through small, elongated openings on the inner edges of the extraction hood.

The extraction hood can be fitted with welding strips to reduce the occurrence of sparks, thus protecting not only the staff but the entire equipment.

Furthermore, the dust incurred during welding and cutting cannot escape through the hanging strips. The length of the strips can be individually altered to suit your requirements.



The modular extraction hood KEMPER Vario Hood can be individually configured from 450mm x 450mm up to a maximum width of 3,150 mm in increments of 450 mm. Any length is not a problem as KEMPER has already manufactured hoods with a length of 20,000 mm.

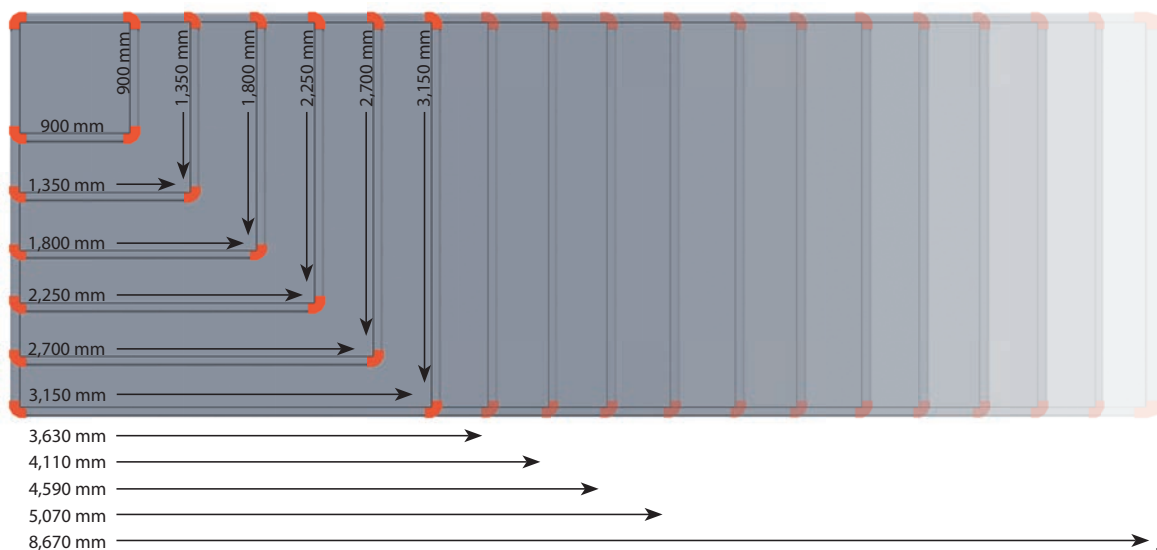
protection strips from the KEMPER program with an overlap of 33%, 66% or 100%.

In addition to assisting with the effective capture of welding fumes the strips also protect equipment and people against welding spatter.

Various mounting options gives a lot of leeway when planning the system.

KEMPER Vario Hood can be equipped with welding

### Modular configuration up to 3,150mm width and 20,000mm length



## VarioHood - Modular Exhaust Hood

- » Modular construction
- » Low airflow required



### Applications

- » Robot extraction

### Benefits

- » Low flow rate required due to innovative flow principle
- » Plenty of scope for plant design due to variety of mounting options
- » Low transport costs and easy installation thanks to assembly set
- » Many different sizes available due to the modular design
- » Increased health protection because dust can be sucked up directly at source
- » Protection against welding spatter for staff and equipment thanks to welding strips

### Properties

- » Modular design
- » Suspended from the ceiling, mounted on stands or integrated into a movable robot gantry
- » Innovative air flow principle
- » Insertable
- » Equipped with KEMPER welding protection strips
- » Unlimited choice of strip lengths

### Order Data

| Art. No. | Dimensions (w x d) | Required extraction capacity    | Weight | Pressure drop | Number of extraction spigots. |
|----------|--------------------|---------------------------------|--------|---------------|-------------------------------|
| 232 0302 | 900 x 1,350 mm     | 600 - 950 m <sup>3</sup> /h     | 56 kg  | 200 Pa        | 1                             |
| 232 0402 | 900 x 1,800 mm     | 800 - 1.300 m <sup>3</sup> /h   | 66 kg  | 200 Pa        | 1                             |
| 232 0502 | 900 x 2,250 mm     | 1.000 - 1.600 m <sup>3</sup> /h | 91 kg  | 200 Pa        | 2                             |
| 232 0602 | 900 x 2,700 mm     | 1.200 - 2.000 m <sup>3</sup> /h | 101 kg | 200 Pa        | 2                             |
| 232 0303 | 1,350 x 1,350 mm   | 900 - 1.500 m <sup>3</sup> /h   | 69 kg  | 200 Pa        | 1                             |
| 232 0403 | 1,350 x 1,800 mm   | 1.200 - 2.000 m <sup>3</sup> /h | 83 kg  | 200 Pa        | 1                             |
| 232 0503 | 1,350 x 2,250 mm   | 1.500 - 2.400 m <sup>3</sup> /h | 114 kg | 200 Pa        | 2                             |
| 232 0603 | 1,350 x 2,700 mm   | 1.800 - 2.900 m <sup>3</sup> /h | 128 kg | 200 Pa        | 2                             |
| 232 0404 | 1,800 x 1,800 mm   | 1.600 - 2.600 m <sup>3</sup> /h | 100 kg | 200 Pa        | 2                             |
| 232 0504 | 1,800 x 2,250 mm   | 2.000 - 3.200 m <sup>3</sup> /h | 138 kg | 200 Pa        | 3                             |
| 232 0604 | 1,800 x 2,700 mm   | 2.400 - 3.900 m <sup>3</sup> /h | 156 kg | 200 Pa        | 3                             |

### Further products

| Art. No.   | Description                                    |
|------------|--|
| 70 400 302 | Support stand set 2 m for KEMPER variohood     |
| 70 400 301 | Support stand set 2,5 m for KEMPER variohood   |
| 70 400 300 | Support stand set 3 m for KEMPER variohood     |
| 119 0441   | Chain suspension set 5 m for KEMPER variohood  |
| 119 0442   | Chain suspension set 10 m for KEMPER variohood |

\* Suitable strips, see chapter protective welding equipment





## Protective Welding Equipment And Welding Helmets

### autodark® - Automatic Welding Helmet

|                                      |     |
|--------------------------------------|-----|
| autodark® 560i                       | 116 |
| autodark® 560x                       | 117 |
| autodark® 660i                       | 119 |
| autodark® 660x                       | 120 |
| autodark® 760                        | 121 |
| Overview of KEMPER Autodark® helmets | 122 |
| Spare parts                          | 123 |

### autoflow® - Respiratory Protection System

|  |     |
|--|-----|
| KEMPER autoflow® with KEMPER autodark® 660i and 660x Air | 126 |
| KEMPER autoflow® with KEMPER autodark® 760 Air           | 127 |
| Accessories and replacement parts autoflow®              | 128 |

### Protection Curtains And Walls

|   |     |
|---|-----|
| Welding Protection Curtain                            | 130 |
| Welding protection strips                             | 135 |
| Protection strips                                     | 138 |
| Mounting systems                                      | 140 |
| Pivoting Arm For Welding Curtains                     | 148 |
| Swivel Arm Wall Mounted, Lockable And Telescopic      | 149 |
| Mobile protection screens with curtains               | 150 |
| Mobile protection screens with welding strip curtains | 152 |
| Welding protection screen with strips                 | 153 |

### Sound insulating partitioning wall systems

|                        |     |
|------------------------|-----|
| Grinding booth         | 157 |
| Mobile soundproof wall | 158 |

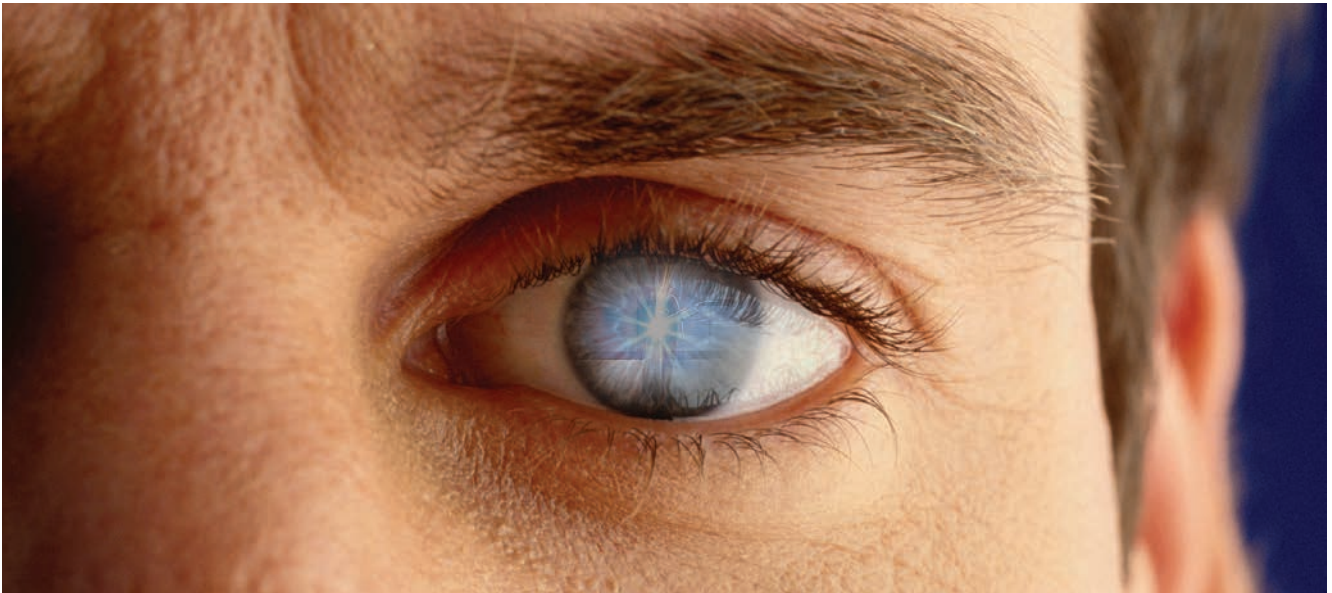
### Welding protective blankets

|                             |     |
|-----------------------------|-----|
| Welding protective blankets | 159 |
|-----------------------------|-----|



# » KEMPER autodark®

the welding protection helmets



The eye covers the most important part of human perception. Therefore it needs special protection during the welding process. During welding, a wide spectrum of hazardous rays is released, which can damage the human eye permanently.



The autodark® welding helmet offers a very high comfort. It is individually adjustable for every head form and offers also optimal comfort and protection to spectacle wearers. With some models controls are located at the outside of the helmet, to facilitate the with welding gloves.

autodark® welding helmets not only assist the safety during the welding process but also increase the productivity. Both hands can be kept free and the view on the welding joint is clear. The increase in productivity will pay for the investment quickly.

For your safety all autodark® products are constantly quality tested.

autodark® welding helmets from KEMPER offer the highest level of protection for this sensitive organ. Due to the auto darkening filter, damaging ultra-violet and infrared rays will be kept away from the welders eye. The actual helmet shell is designed to offer an extra protection against heat, sparks and welding spatters.

Contrary to conventional welding helmets with a fixed shade, the automatic filter will only darken during the actual welding process, otherwise it will stay transparent. The filter will recognise the dangerous rays within milliseconds and switches from light to dark.



# KEMPER WELDING HELMETS

## features and advantages

### KEMPER autodark® 560i / 560x

- » Standard viewing area – 96 x 42 mm
- » Basic protection solution
- » General optical quality – 1/2/1/3
- » Powered by solar cells – no need to replace batteries
- » 1 year warranty



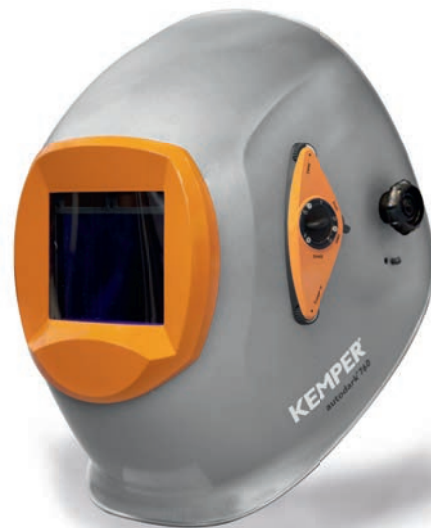
### KEMPER autodark® 660i / 660x

- » Large viewing area – 96 x 46,5 mm
- » Superb sensitivity – including TIG with low Amps
- » Excellent optical quality – 1/1/1/2
- » ADC technology
- » Powered by solar cells – no need to replace batteries
- » Possibility of adjustment: shade 9-13 (Kemper autodark® 660i), 6-8/9-13 (Kemper autodark® 660x), sensitivity, opening time delay, welding / grinding mode (Kemper autodark® 660x)
- » High reliability
- » Humidity protection
- » Long life time
- » 3 years warranty



### KEMPER autodark® 760

- » Brighter filter / better colour recognition
- » Extra-large viewing area – 96 x 68,5 mm
- » Superb sensitivity – TIG below 5 Amps
- » Superb optical quality – 1/1/1/1
- » ADC Plus technology
- » Possibility of adjustment: shade 6-8/9-13, sensitivity, opening time delay, welding / grinding mode
- » High reliability
- » Humidity protection
- » Long life time
- » 4 years warranty



## autodark® 560i

- » Viewing area 96 x 42 mm
- » Internal control



### Applications

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding >50A
- » Micro-plasma-welding

### Benefits

- » Better eye protection due to variable protection shades
- » Safety and comfort due to opening time delay
- » Wearing comfort due to low weight and adjustable headband
- » Low running cost as no battery change is necessary
- » Reliable protection due to adjustable sensitivity

### Properties

- » Variable sensitivity
- » Large viewing area 96 x 42 mm
- » Variable shade DIN 9-13 (internal)
- » Optical class (1/2/1/3)
- » Adjustable delay
- » 1 year warranty
- » Solar cell powered

### Order Data

| Art. No.    | Description    |
|-------------|----------------|
| 74 800 560i | autodark® 560i |



### Technical Data

| Basic data              |                                |
|-------------------------|--------------------------------|
| Dimensions viewing area | 96 x 42 mm                     |
| Dark shade              | Shade 9-13                     |
| Light shade             | Shade 4                        |
| UV/IR Shade             | Shade 15/16                    |
| Classification          | 1/2/1/3                        |
| Auto-ON                 | Yes                            |
| Switching time          | 0,0004 s (21°C)                |
| Delay                   | 0,2 - 0,8 s                    |
| Sensitivity             | Adjustable                     |
| Grinding mode           | No                             |
| Sensors                 | 2                              |
| Weight                  | 500 g                          |
| Power supply            | Solar cells, no battery change |
| Approval                | CE                             |
| Certificate             | EN 379, EN 175                 |
| Operation               | internal                       |
| Filter technology       | standard                       |
| Preparation for hardhat | no                             |

**Applications**

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding >50A
- » Micro-plasma-welding

**Benefits**

- » Better eye protection due to variable protection shades
- » Safety and comfort due to opening time delay
- » Wearing comfort due to low weight and adjustable headband
- » Low running cost as no battery change is necessary
- » Reliable protection due to adjustable sensitivity
- » Easy operation by external adjustment of shade

**Properties**

- » Variable sensitivity
- » Large viewing area 96 x 42 mm
- » Variable shade DIN 9-13 (external)
- » Optical class (1/2/1/3)
- » Adjustable delay
- » 1 year warranty
- » Solar cell powered

**autodark® 560x**

- » Viewing area 96 x 42 mm
- » External control

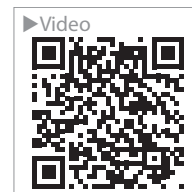


**Technical Data**

| Basic data              |                                |
|-------------------------|--------------------------------|
| Dimensions viewing area | 96 x 42 mm                     |
| Dark shade              | Shade 9-13                     |
| Light shade             | Shade 4                        |
| UV/IR Shade             | Shade 15/16                    |
| Classification          | 1/2/1/3                        |
| Auto-ON                 | Yes                            |
| Switching time          | 0,0004 s (21°C)                |
| Delay                   | 0,2 - 0,8 s                    |
| Sensitivity             | Adjustable                     |
| Grinding mode           | No                             |
| Sensors                 | 2                              |
| Weight                  | 500 g                          |
| Power supply            | Solar cells, no battery change |
| Approval                | CE                             |
| Certificate             | EN 379, EN 175                 |
| Operation               | external                       |
| Filter technology       | standard                       |
| Preparation for hardhat | no                             |

**Order Data**

| Art. No.           | Description    |
|--------------------|----------------|
| <b>74 800 560x</b> | autodark® 560x |





**Applications**

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding <5 A
- » Micro-plasma-welding
- » Plasma cutting

**Benefits**

- » See everything due to improved slanted view
- » Better eye protection due to higher optical class and variable shade
- » Higher safety due to larger viewing area and higher mechanical protection
- » Higher safety and comfort due to adjustable delay
- » Less tiring operation due to lower weight of the welding filter
- » Higher comfort due to ergonomically designed headband
- » Low on going cost as no battery change required
- » Reliable protection due to adjustable sensitivity

**Properties**

- » Variable sensitivity
- » Adjustable opening time delay
- » Large viewing area 96 x 46.5mm
- » Variable shade DIN 9-13 (internal)
- » Optical class (1/1/1/2)
- » Switching time light to dark < 0,15ms
- » High mechanical protection - DIN plus
- » Optical welding protective Filter with low weight
- » Better wearing comfort due to optimized head band
- » 3 year warranty
- » Solar cell powered

**autodark® 660i**

- » Viewing area 96 x 46.5 mm
- » Internal control

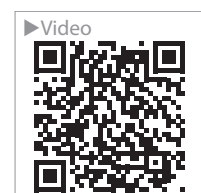


**Technical Data**

| Basic data              |                                |
|-------------------------|--------------------------------|
| Dimensions viewing area | 96 x 46,5 mm                   |
| Dark shade              | Shade 9-13                     |
| Light shade             | Shade 4                        |
| UV/IR Shade             | Shade 16                       |
| Classification          | 1/1/1/2                        |
| Auto-ON                 | Yes                            |
| Switching time          | 0,00015 s (21°C)               |
| Delay                   | 0,2 - 0,8 s                    |
| Sensitivity             | Adjustable                     |
| Grinding mode           | No                             |
| Sensors                 | 2                              |
| Weight                  | 580 g                          |
| Power supply            | Solar cells, no battery change |
| Approval                | CE, DIN, DIN plus              |
| Certificate             | EN 379, EN 175                 |
| Operation               | internal                       |
| Filter technology       | ADC                            |
| Preparation for hardhat | yes                            |

**Order Data**

| Art. No.           | Description   |
|--------------------|---|
| <b>74 800 660i</b> | autodark® 660i  |
| <b>70 801 660i</b> | autodark® 660i welding protection helmet incl. hard hat |



## autodark® 660x

- » Viewing area 96 x 46.5 mm
- » External control



### Applications

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding <5 A
- » Micro-plasma-welding
- » Plasma cutting
- » Grinding

### Benefits

- » Easy operation by external adjustment of shade
- » See everything due to improved slanted view
- » Better eye protection due to higher optical class and variable shade
- » Higher safety due to larger viewing area and higher mechanical protection
- » Higher safety and comfort due to adjustable delay
- » Less tiring operation due to lower weight of the welding filter
- » Higher comfort due to ergonomically designed headband
- » Low on going cost as no battery change required
- » Reliable protection due to adjustable sensitivity

### Properties

- » Variable sensitivity
- » Adjustable opening time delay
- » Large viewing area 96 x 46.5mm
- » Shade DIN 6-8 / 9-13 (extern)
- » Optical class (1/1/1/2)
- » Switching time light to dark < 0,15ms
- » High mechanical protection - DIN plus
- » Optical welding protective Filter with low weight
- » Better wearing comfort due to optimized head band
- » 3 year warranty
- » Solar cell powered

### Technical Data

| Basic data              |                                |
|-------------------------|--------------------------------|
| Dimensions viewing area | 96 x 46,5 mm                   |
| Dark shade              | Shade level 6-8/9-13           |
| Light shade             | Shade 4                        |
| UV/IR Shade             | Shade 16                       |
| Classification          | 1/1/1/2                        |
| Auto-ON                 | Yes                            |
| Switching time          | 0,00015 s (21°C)               |
| Delay                   | 0,2 - 0,8 s                    |
| Sensitivity             | Adjustable                     |
| Grinding mode           | Yes                            |
| Sensors                 | 2                              |
| Weight                  | 620 g                          |
| Power supply            | Solar cells, no battery change |
| Approval                | CE, DIN, DIN plus              |
| Certificate             | EN 379, EN 175                 |
| Operation               | external                       |
| Filter technology       | ADC                            |
| Preparation for hardhat | yes                            |

### Order Data

| Art. No.           | Description   |
|--------------------|---|
| <b>74 800 660x</b> | autodark® 660x  |
| <b>70 801 660x</b> | autodark® 660x welding protection helmet incl. hard hat |



## autodark® 760

### Applications

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding <5 A
- » Micro-plasma-welding
- » Plasma cutting
- » Grinding

### Benefits

- » Wide shade range allows use with many welding applications
- » Maximum safety thanks to very large viewing area and superb switching time
- » Increased safety and comfort due to adjustable opening time delay
- » Time saving grinding mode - no need to take off welding helmet
- » Reliable protection due to adjustable sensitivity

### Properties

- » Variable sensitivity
- » Adjustable opening time delay
- » Optical welding protective Filter with low weight
- » Better wearing comfort due to optimized head band
- » Viewing area 96 x 68.5 mm
- » Variable shade DIN 6-8 / 9-13
- » Optical class 1/1/1/1
- » Switching time light to dark < 0.15 ms
- » Three sensors
- » 4 year warranty

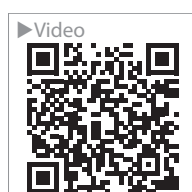
### Order Data

| Art. No.          | Description  |
|-------------------|--|
| <b>74 800 760</b> | autodark® 760  |
| <b>70 801 760</b> | autodark® 760 welding protection helmet incl. hard hat |



### Technical Data

| Basic data              |                                   |
|-------------------------|-----------------------------------|
| Dimensions viewing area | 96 x 68,5 mm                      |
| Dark shade              | Shade level 6-8/9-13              |
| Light shade             | Shade 4                           |
| UV/IR Shade             | Shade 16                          |
| Classification          | 1/1/1/1                           |
| Auto-ON                 | Yes                               |
| Switching time          | 0,00015 s (21°C)                  |
| Delay                   | 0,1 - 1,0 s                       |
| Sensitivity             | Adjustable                        |
| Grinding mode           | Yes                               |
| Sensors                 | 3                                 |
| Weight                  | 640 g                             |
| Power supply            | Solar cells, 2 batteries (CR2032) |
| Approval                | CE, DIN, DIN plus                 |
| Certificate             | EN 379, EN 175                    |
| Operation               | external                          |
| Filter technology       | ADC plus                          |
| Preparation for hardhat | yes                               |



# Overview KEMPER autodark® helmets



## Technical Data

### Basic data

|                         |                                |                                |                                |                                |                                   |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|
| Dimensions viewing area | 96 x 42 mm                     | 96 x 42 mm                     | 96 x 46.5 mm                   | 96 x 46.5 mm                   | 96 x 68.5 mm                      |
| Dark shade              | DIN 9-13                       | DIN 9-13                       | DIN 9-13                       | DIN 6-8/9-13                   | DIN 6-8/9-13                      |
| Light shade             | Shade 4                        | Shade 4                        | Shade 4                        | Shade 4                        | Shade 4                           |
| UV/IR Shade             | Shade 15/16                    | Shade 15/16                    | Shade 16                       | Shade 16                       | Shade 16                          |
| Classification          | 1/2/1/3                        | 1/2/1/3                        | 1/1/1/2                        | 1/1/1/2                        | 1/1/1/1                           |
| Auto-ON                 | Yes                            | Yes                            | Yes                            | Yes                            | Yes                               |
| Switching time          | 0.0004 s (21°C)                | 0.0004 s (21°C)                | 0.00015 s (21°C)               | 0.00015 s (21°C)               | 0.00015 s (21°C)                  |
| Delay                   | 0.2 - 0.8 s                    | 0.2 - 0.8 s                    | 0.2 - 0.8 s                    | 0.2 - 0.8 s                    | 0.1 - 1.0 s                       |
| Sensitivity             | Adjustable                     | Adjustable                     | Adjustable                     | Adjustable                     | Adjustable                        |
| Grinding mode           | No                             | No                             | No                             | Yes                            | Yes                               |
| Sensors                 | 2                              | 2                              | 2                              | 2                              | 3                                 |
| Weight                  | 500 g                          | 500 g                          | 580 g                          | 620 g                          | 640 g                             |
| Operation               | internal                       | external                       | internal                       | external                       | external                          |
| Power supply            | Solar cells, no battery change | Solar cells, no battery change | Solar cells, no battery change | Solar cells, no battery change | Solar cells, 2 batteries (CR2032) |
| Filter technology       | standard                       | standard                       | ADC                            | ADC                            | ADC plus                          |
| Preparation for hardhat | Nein                           | Nein                           | Yes                            | Yes                            | Yes                               |
| Approval                | CE                             | CE                             | CE, DIN, DIN plus              | CE, DIN, DIN plus              | CE, DIN, DIN plus                 |
| Certificate             | EN 379, EN 175                 | EN 379, EN 175                 | EN 379, EN 175                 | EN 379, EN 175                 | EN 379, EN 175                    |

### order details

|  |                    |                    |                    |                    |                   |
|--|--------------------|--------------------|--------------------|--------------------|-------------------|
| Art. No. Welding helmet                    | <b>74 800 560i</b> | <b>74 800 560x</b> | <b>74 800 660i</b> | <b>74 800 660x</b> | <b>74 800 760</b> |
| Art. No. Welding helmet including hard hat | -                  | -                  | <b>70 801 660i</b> | <b>70 801 660x</b> | <b>70 801 760</b> |

## application area

|                      |        |        |       |       |       |
|----------------------|--------|--------|-------|-------|-------|
| Manual arc welding   | x      | x      | x     | x     | x     |
| MIG/MAG welding      | x      | x      | x     | x     | x     |
| TIG welding          | x >50A | x >50A | x <5A | x <5A | x <5A |
| Micro-plasma-welding | x      | x      | x     | x     | x     |
| Plasma cutting       |        |        | x     | x     | x     |
| Grinding             |        |        |       | x     | x     |

▶ Video



**Autodarkening welding filters**

| Art. No.    | Description                             |
|-------------|---|
| 70 800 560i | Welding protective filter cassette 560i |
| 70 800 560x | Welding protective filter cassette 560x |
| 70 800 660i | Welding protective filter cassette 660i |
| 70 800 660x | Welding protective filter cassette 660x |
| 70 800 760  | Welding protective filter cassette 760  |



**Sweatband for adjustable headband**

| Art. No.   | Description              |
|------------|--------------------------|
| 70 800 591 | Headband 560i, 560x      |
| 70 800 594 | Headband 660i, 660x, 760 |



**Inner protection lens**

| Art. No.   | Description  |
|------------|--|
| 70 800 560 | Inner protection lens size 107 x 51 x 1 mm, DIN 0, 10 per set, for 560i, 560x, 660i, 660x, 750 |
| 70 800 597 | Inner protection lens 107.5 x 71.5 x 1mm (10 per set), for 760                                 |



**Outer protection lens**

| Art. No.   | Description  |
|------------|--|
| 70 874 005 | Outer protection lens, size 90 x 110 x 1 mm, DIN 0, 10 per set, for 560i, 560x, 660i, 660x, 750, 760 |



**Dioptre lens**

| Art. No.   | Description                        |
|------------|------------------------------------|
| 70 800 806 | Dioptre lens 1.0 - 107 x 51 x 3 mm |
| 70 800 807 | Dioptre lens 1.5 - 107 x 51 x 3 mm |
| 70 800 808 | Dioptre lens 2.0 - 107 x 51 x 3 mm |
| 70 800 809 | Dioptre lens 2.5 - 107 x 51 x 3 mm |
| 70 800 805 | Dioptre lens holder                |



## » KEMPER autoflow®

The KEMPER autoflow® combines an optimal respiratory protection with a maximum convenience for your welding, cutting or grinding tasks, all in a perfect design. This respiratory protection system excels due to its complete independence and freedom of movement. By means of a fan, the battery-powered device creates a constant excess pressure in the protective shield so that arising contaminants cannot enter. Simultaneously, the unit filters the sucked-in air in a particulate filter with a dust reduction efficiency of 99.8 %.

KEMPER autoflow® impresses with its performance whilst at the same time being low in weight and compact in its design. The fan unit is attached to a comfortable carrying strap which has such a tight fit that even in a restricted space, no problems will arise. The welding hose can be clamped easily in the helmet holder designed for this purpose to prevent it from hanging loose. Thus fatigue-proof working all day long is guaranteed.

KEMPER autoflow® can be operated in two fan settings: 170 and 220 l/min. The fan includes a brushless DC motor. The motor has a life cycle which is three times longer than that of a conventional fan motor.

The preliminary filter is responsible for a longer service cycle of the main particle filter and thus reduces the operating - costs substantially. The system maintains its consistently high suction performance.

In front of the pre-filter, there is an additional spark protector made from stainless steel mesh in order to significantly reduce the hazard of filter fires.

The integrated main filter provides clean, uncontaminated air within the breathing space of the user.



**NEW** available as of  
spring 2017

Convenient and  
high-performance

## The fan respiratory protective system

### Control:

The control panel always shows the filter saturation, the battery performance and the air volume flow to the user of the KEMPER autoflow® at all times. The fan unit can be operated at a clear control panel using two keys:

### Storage:

The KEMPER autoflow® is delivered in a robust, high-quality and secure transport packaging, which has been designed for mobile use and as a constant companion. Additional investment in a transport case for the optimum protection of the high-quality technology during transport and storage are thus canceled. The case provides sufficient space for the convenient transport of all components as well as possibly existing accessories.

### Different designs:

The KEMPER autoflow® may be used for welding as well as grinding work. It can be individually adjusted to the shape of the head of the user and can thus be worn very comfortably. Moreover, it provides an optimal protection for persons wearing glasses.

### Advantages at a glance:

- » Low weight
- » Compact design
- » A comfortable carrying strap
- » Easy operation
- » Allows work in narrow spaces
- » Brushless DC motor
- » Lithium-Ion-battery
- » Dust reduction efficiency of the filter of 99.8 %
- » Automatic volume flow control
- » Acoustic warning signals
- » Headgear can be adjusted to the head shape of the user
- » Can be combined with autodark 660i, 660x as well as 760 Air

Scope of delivery:



Optional with KEMPER autodark® Air-model

Abdominal belt + shoulder harness

Air Tube

KEMPER autoflow® & Charger

Transport case



## KEMPER autoflow® with KEMPER autodark® 660i and 660x Air

**NEW** available as of  
 spring 2017



### Applications

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding <5 A
- » Micro-plasma-welding
- » Plasma cutting

### Benefits

- » See everything due to improved slanted view
- » Better eye protection due to higher optical class and variable shade
- » Higher safety due to larger viewing area and higher mechanical protection
- » Higher safety and comfort due to adjustable delay
- » Less tiring operation due to lower weight of the welding filter
- » Higher comfort due to ergonomically designed headband
- » Low on going cost as no battery change required
- » Reliable protection due to adjustable sensitivity

### Technical data fan respiratory protection system

| Basic data for respiratory protection system |                            |
|--|----------------------------|
| Battery                                      | Lithium Ion - rechargeable |
| Capacity                                     | 2,200 mAh                  |
| Operating time of battery                    | 9-10 h                     |
| Airflow                                      | 170 and 220 l/min          |
| Weight                                       | 1,097 g                    |
| Noise level                                  | 60 dB(A)                   |
| Dimensions (w x d x h)                       | 224 x 70 x 190 mm          |

### Order Data

| Art. No.              | Description   |
|-----------------------|---|
| <b>74 800 660i AF</b> | autoflow® with autodark® 660i Air Welding Helmet operation internal |
| <b>74 800 660x AF</b> | autoflow® with autodark® 660x Air Welding Helmet operation external |

### Properties

- » Variable sensitivity
- » Adjustable opening time delay
- » Large viewing area 96 x 46.5mm
- » Optical class (1/1/1/2)
- » Switching time light to dark < 0,15ms
- » High mechanical protection - DIN plus
- » Optical welding protective Filter with low weight
- » Better wearing comfort due to optimized head band
- » 3 year warranty
- » Protection level 660i Air: DIN 9-13, 660x Air: 6-8/9-13
- » Weight 660i Air: 580 g, 660x Air: 620 g
- » Grinding mode 660i Air: No, 660x Air: Yes
- » Operation 660i Air: Internal, 660x Air: External
- » Solar cell powered

### Scope of supply

- » KEMPER autodark® Air helmet
- » KEMPER autoflow® fan respiratory protection system
- » Abdominal belt and shoulder harness
- » Fixing material
- » Connection hose
- » Fixing material

### Technical data helmet

| Basic data              |                  |
|-------------------------|------------------|
| Dimensions viewing area | 96 x 46,5 mm     |
| Light shade             | Shade 4          |
| UV/IR Shade             | Shade 16         |
| Classification          | 1/1/1/2          |
| Auto-ON                 | Yes              |
| Switching time          | 0,00015 s (21°C) |
| Delay                   | 0,2 - 0,8 s      |
| Sensitivity             | Adjustable       |
| Sensors                 | 2                |
| Filter technology       | ADC              |
| Preparation for hardhat | yes              |

## KEMPER autoflow® with KEMPER autodark® 760 Air

### Applications

- » Manual arc welding
- » MIG/MAG welding
- » TIG welding <5 A
- » Micro-plasma-welding
- » Plasma cutting
- » Grinding

### Benefits

- » Wide shade range allows use with many welding applications
- » Maximum safety thanks to very large viewing area and superb switching time
- » Increased safety and comfort due to adjustable opening time delay
- » Time saving grinding mode - no need to take off welding helmet
- » Reliable protection due to adjustable sensitivity

### Properties

- » Variable sensitivity
- » Adjustable opening time delay
- » Optical welding protective Filter with low weight
- » Better wearing comfort due to optimized head band
- » Viewing area 96 x 68.5 mm
- » Variable shade DIN 6-8 / 9-13
- » Optical class 1/1/1/1
- » Switching time light to dark < 0.15 ms
- » Three sensors
- » 4 year warranty

### Scope of supply

- » KEMPER autodark® Air helmet
- » KEMPER autoflow® fan respiratory protection system
- » Abdominal belt and shoulder harness
- » Fixing material
- » Connection hose
- » Fixing material



### Technical data helmet

| Basic data              |                      |
|-------------------------|----------------------|
| Dimensions viewing area | 96 x 68,5 mm         |
| Dark shade              | Shade level 6-8/9-13 |
| Light shade             | Shade 4              |
| UV/IR Shade             | Shade 16             |
| Classification          | 1/1/1/1              |
| Auto-ON                 | Yes                  |
| Switching time          | 0,00015 s (21°C)     |
| Delay                   | 0,1 - 1,0 s          |
| Sensitivity             | Adjustable           |
| Grinding mode           | Yes                  |
| Sensors                 | 3                    |
| Operation               | external             |
| Filter technology       | ADC plus             |
| Preparation for hardhat | yes                  |

### Technical data fan respiratory protection system

| Basic data for respiratory protection system |                            |
|--|----------------------------|
| Battery                                      | Lithium Ion - rechargeable |
| Capacity                                     | 2,200 mAh                  |
| Operating time of battery                    | 9-10 h                     |
| Airflow                                      | 170 and 220 l/min          |
| Weight                                       | 1,097 g                    |
| Noise level                                  | 60 dB(A)                   |
| Dimensions (w x d x h)                       | 224 x 70 x 190 mm          |

### Order Data

| Art. No.             | Description                                    |
|----------------------|--|
| <b>74 800 760 AF</b> | KEMPER autoflow® with KEMPER autodark® 760 Air |





### Fan unit

| Art. No.   | Description   |
|------------|---|
| 70 845 000 | Blower unit with connection hose, belt and shoulder harness |
| 70 845 100 | Blower unit individual                                      |



### KEMPER autodark® welding helmet with connection socket

| Art. No.    | Description  |
|-------------|--|
| 74 801 660i | autodark® 660i Air welding helmet with connection socket |
| 74 801 660x | autodark® 660x Air welding helmet with connection socket |
| 74 801 760  | autodark® 760 Air welding helmet with connection socket  |



### Spare filter

| Art. No.   | Description  |
|------------|--------------|
| 70 845 500 | Spare filter |



### Activated charcoal filter

| Art. No.   | Description                            |
|------------|--|
| 70 845 501 | Activated charcoal filter, (3 per set) |



### Spark protection mesh

| Art. No.   | Description           |
|------------|-----------------------|
| 70 845 502 | Spark protection mesh |



### Battery

| Art. No.   | Description  |
|------------|--|
| 70 845 503 | Battery, for use as additional one or as spare battery |

## Charger

| Art. No.   | Description    |
|------------|----------------|
| 70 845 504 | Charger, 230 V |



## Abdominal belt + shoulder harness

| Art. No.   | Description   |
|------------|---|
| 70 845 505 | Abdominal belt + shoulder harness to fasten the blower unit |



## Connection hose

| Art. No.   | Description                           |
|------------|---------------------------------------|
| 70 845 506 | Connection hose with connection piece |



## Protective cover connection hose

| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 845 507 | Protective cover connection hose |



## Transport box

For convenient transport and safe storage

| Art. No.  | Description  |
|-----------|--|
| 70 830 08 | System case out of plastic, colour: grey Measures inside (w x h x d): 281 x 360 x 272 mm |



## Protection lens

| Art. No.   | Description  |
|------------|--|
| 70 800 560 | Inner protection lens size 107 x 51 x 1 mm, DIN 0, 10 per set, for 560i, 560x, 660i, 660x, 750       |
| 70 800 597 | Inner protection lens 107.5 x 71.5 x 1mm (10 per set), for 760                                       |
| 70 874 005 | Outer protection lens, size 90 x 110 x 1 mm, DIN 0, 10 per set, for 560i, 560x, 660i, 660x, 750, 760 |



# » Welding curtains

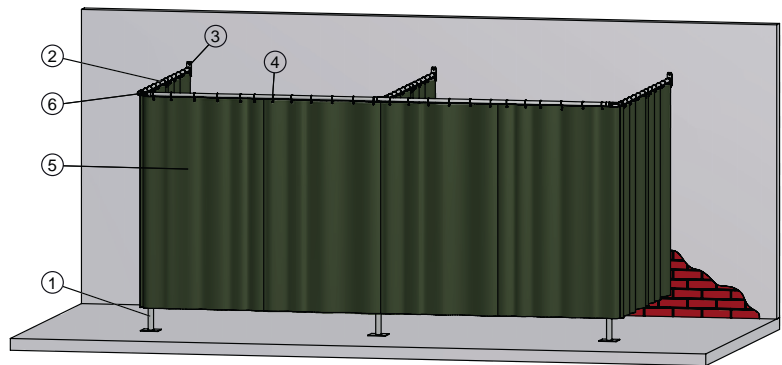


### Example

of a welding curtain system  
W 4.000 x D 2.000 x H 2.000 mm  
with welding curtain S9, dark green, matt,  
ground clearance 200 mm:

- ① 3 x column for 1" pipe Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 7 x sets of metal hooks for 1" pipe, (70 pieces), Part No. 70 120 109
- ⑤ 10 x welding curtains S9, dark green, matt, H 1.800 x W 1.300 mm, Part No. 70 100 101
- ⑥ 5 x end caps for 1" pipe, Part No. 70 190 133

### Metal hook suspended welding curtains for 1" pipe

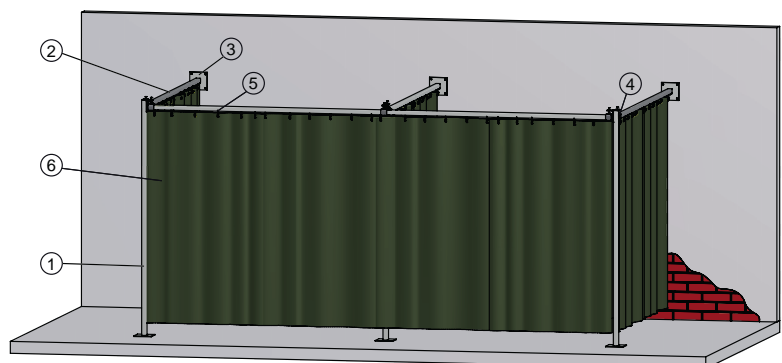


### Example

of a welding curtain system  
W 4.000 x D 2.000 x H 2.000 mm  
with welding curtain S9, dark green, matt,  
ground clearance 200 mm:

- ① 3 x column for C-profile, Part No. 70 180 109
- ② 2 x 6 m C-Profil, Part No. 70 124 106
- ③ 3 x wall mounting plate for C-profile, Part No. 70 190 113
- ④ 5 x end caps for C-profile, Part No. 70 120 107
- ⑤ 7 x sets of metal hooks (70 pieces), Part No. 70 120 112
- ⑥ 10 x welding curtains S9, dark green, matt, H 1.800 x W 1.300 mm, Part No. 70 100 101

### Sliding hook suspended welding curtains for C-profile



**Properties**

- » For fixing on a tube or a C-profile
- » Reinforced hems on all sides to prevent tearing
- » Safety curtain in colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Welding curtain is tested as per DIN EN ISO 25980
- » Reinforced eyelets for fixing
- » Sealed-in plastic snap fasteners

**Welding Protection Curtain**

**Applications**

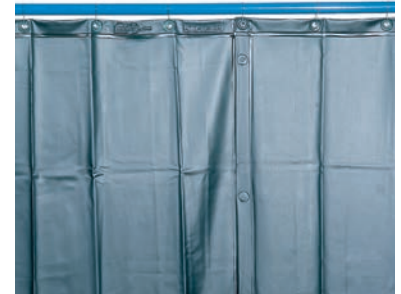
- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

**Benefits**

- » Rugged suspension system due to reinforced eyelets and tear-proof hem
- » Curtain can be moved aside due to fastening using eyelets or sliding hooks
- » Curtain size can be varied by use of snap fasteners

**Welding Curtain S9, Dark Green, Matt, DIN EN ISO 25980**

| Art. No.   | Description                    |
|------------|--------------------------------|
| 70 100 100 | H 1,600 x W 1,300 mm, 1.30 kg  |
| 70 100 101 | H 1,800 x W 1,300 mm, 1.50 kg  |
| 70 100 102 | H 2,000 x W 1,300 mm, 1.60 kg  |
| 70 100 103 | H 2,200 x W 1,300 mm, 1.70 kg  |
| 70 100 104 | H 2,400 x W 1,300 mm, 1.90 kg  |
| 70 100 105 | H 2,600 x W 1,300 mm, 2.00 kg  |
| 70 100 106 | H 2,800 x W 1,300 mm, 2.20 kg  |
| 70 100 107 | H 3,000 x W 1,300 mm, 2.30 kg  |
| 70 100 121 | custom size per m <sup>2</sup> |



**Welding Curtain S7, Green, DIN EN ISO 25980**

| Art. No.   | Description                    |
|------------|--------------------------------|
| 70 100 300 | H 1,600 x W 1,300 mm, 1.30 kg  |
| 70 100 301 | H 1,800 x W 1,300 mm, 1.50 kg  |
| 70 100 302 | H 2,000 x W 1,300 mm, 1.60 kg  |
| 70 100 303 | H 2,200 x W 1,300 mm, 1.70 kg  |
| 70 100 304 | H 2,400 x W 1,300 mm, 1.90 kg  |
| 70 100 305 | H 2,600 x W 1,300 mm, 2.00 kg  |
| 70 100 306 | H 2,800 x W 1,300 mm, 2.20 kg  |
| 70 100 307 | H 3,000 x W 1,300 mm, 2.30 kg  |
| 70 100 321 | custom size per m <sup>2</sup> |



**Welding Curtain, Red, DIN EN ISO 25980**

| Art. No.   | Description                    |
|------------|--------------------------------|
| 70 100 400 | H 1,600 x W 1,300 mm, 1.30 kg  |
| 70 100 401 | H 1,800 x W 1,300 mm, 1.50 kg  |
| 70 100 402 | H 2,000 x W 1,300 mm, 1.60 kg  |
| 70 100 403 | H 2,200 x W 1,300 mm, 1.70 kg  |
| 70 100 404 | H 2,400 x W 1,300 mm, 1.90 kg  |
| 70 100 405 | H 2,600 x W 1,300 mm, 2.00 kg  |
| 70 100 406 | H 2,800 x W 1,300 mm, 2.20 kg  |
| 70 100 407 | H 3,000 x W 1,300 mm, 2.30 kg  |
| 70 100 421 | custom size per m <sup>2</sup> |





### Protection Curtain S0, Transparent

Transparent protection curtain protects against dust, draft, moisture and grinding sparks.

| Art. No.   | Description                    |
|------------|--------------------------------|
| 70 100 500 | H 1,600 x W 1,300 mm, 1.30 kg  |
| 70 100 501 | H 1,800 x W 1,300 mm, 1.50 kg  |
| 70 100 502 | H 2,000 x W 1,300 mm, 1.60 kg  |
| 70 100 503 | H 2,200 x W 1,300 mm, 1.70 kg  |
| 70 100 504 | H 2,400 x W 1,300 mm, 1.90 kg  |
| 70 100 505 | H 2,600 x W 1,300 mm, 2.00 kg  |
| 70 100 506 | H 2,800 x W 1,300 mm, 2.20 kg  |
| 70 100 507 | H 3,000 x W 1,300 mm, 2.30 kg  |
| 70 100 521 | custom size per m <sup>2</sup> |

## Pivoting Self Retracting Cable Reel

- » For curtains
- » Up to 8.0 m

### Benefits

- » Space-saving because curtain and wire rope reel can be easily folded aside
- » Quickly ready for use since only the wire rope is tensed to position the curtain
- » Totally adaptable to your needs, since the preferred hanging height and the height of the curtains can be chosen as desired

### Applications

- » For setting up a welding protection curtain up to a width of 8.0 m
- » visual protection
- » Separating individual work and factory areas

### Properties

- » Pivoting if no curtain is stretched in place
- » Consisting of a wire rope, a reel and bracket



| Art. No.   | Description  |
|------------|--|
| 70 110 101 | Pivoting self retracting cable reel for curtains, 13.00 kg |

# » Welding strip curtains

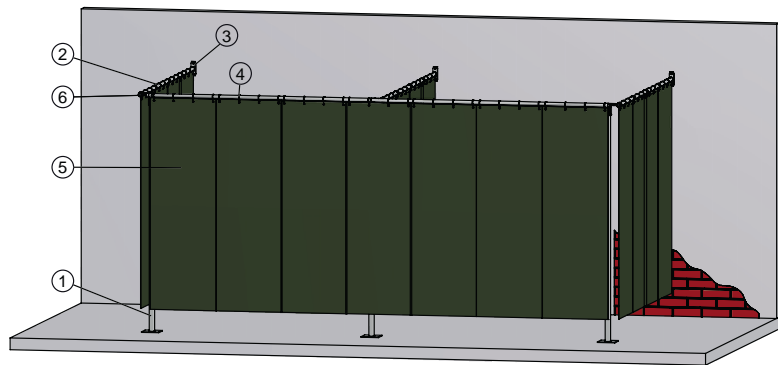


**Example**

of a welding curtain system  
W 4,000 x D 2,000 x H 2,000 mm  
with welding strip curtain S9, dark green, matt,  
ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x all mounting plate for 1" pipe, Part No. 70 190 135
- ④ 7 x sets of metal hooks for 1" pipe, (70 pieces), Part No. 70 120 109
- ⑤ 20 x welding curtains S9, dark green, matt, H 1,800 x W 570 mm, Part No. 70 250 101
- ⑥ 5 x end cap for 1" pipe Part No 70 190 133

**Metal hook suspended welding curtains for 1" pipe**

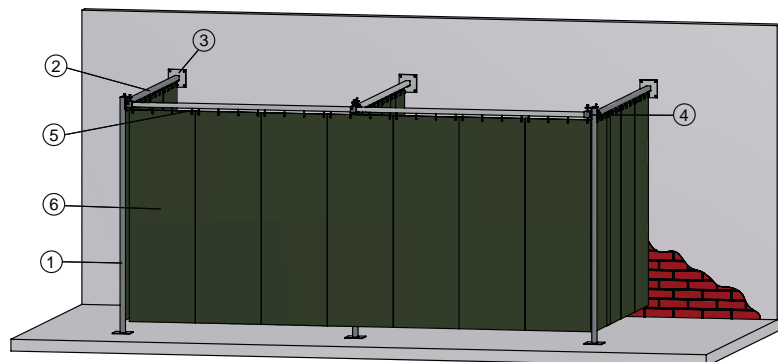


**Example**

of a welding curtain system  
W 4,000 x D 2,000 x H 2,000 mm  
with welding strip curtain S9, dark green, matt,  
ground clearance 200 mm:

- ① 3 x column for C-profile, Part No. 70 180 109
- ② 2 x 6 m C-profile, Part No. 70 124 106
- ③ 3 x wall mounting plate for C-profile, Part No. 70 190 113
- ④ 5 x end caps for C-profile, Part No. 70 120 107
- ⑤ 7 x sets of metal hooks (70 pieces), Part No. 70 120 112
- ⑥ 20 x welding curtains S9, dark green, matt H 1,800 x W 570 mm, Part No. 70 250 101

**Sliding hook suspended welding curtains for C-profile**



## Welding strip curtains

### Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

### Benefits

- » Curtain can be moved aside due to fastening using eyelets or sliding hooks
- » Rugged suspension system due to reinforced eyelets

### Properties

- » For fixing on a tube or a C-profile
- » Reinforced eyelets for fixing
- » Safety panel curtain in colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Welding panel curtain is tested as per DIN EN ISO 25980



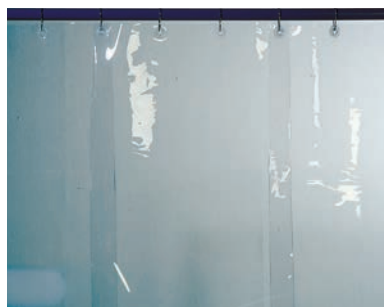
### Welding Strip Curtain S9, Dark Green, Matt, DIN EN ISO 25980

| Art. No.   | Description        |
|------------|--------------------|
| 70 250 100 | H 1,600 x W 570 mm |
| 70 250 101 | H 1,800 x W 570 mm |
| 70 250 102 | H 2,000 x W 570 mm |
| 70 250 103 | H 2,200 x W 570 mm |
| 70 250 104 | H 2,400 x W 570 mm |
| 70 250 105 | H 2,600 x W 570 mm |
| 70 250 106 | H 2,800 x W 570 mm |



### Welding Strip Curtain red, DIN EN ISO 25980

| Art. No.   | Description        |
|------------|--------------------|
| 70 250 400 | H 1,600 x W 570 mm |
| 70 250 401 | H 1,800 x W 570 mm |
| 70 250 402 | H 2,000 x W 570 mm |
| 70 250 403 | H 2,200 x W 570 mm |
| 70 250 404 | H 2,400 x W 570 mm |
| 70 250 405 | H 2,600 x W 570 mm |
| 70 250 406 | H 2,800 x W 570 mm |



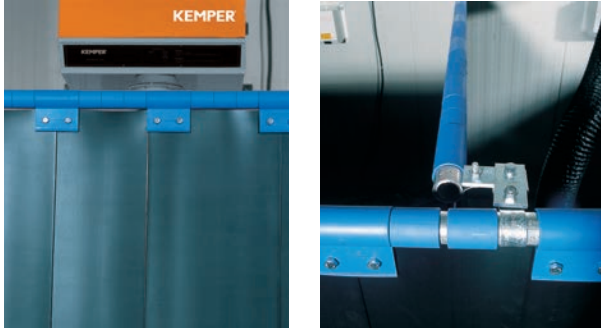
### Welding Strip Curtain S0, Transparent

Transparent protection curtain protects against dust, draft, moisture and grinding sparks.

| Art. No.   | Description        |
|------------|--------------------|
| 70 250 500 | H 1,600 x W 570 mm |
| 70 250 501 | H 1,800 x W 570 mm |
| 70 250 502 | H 2,000 x W 570 mm |
| 70 250 503 | H 2,200 x W 570 mm |
| 70 250 504 | H 2,400 x W 570 mm |
| 70 250 505 | H 2,600 x W 570 mm |
| 70 250 506 | H 2,800 x W 570 mm |

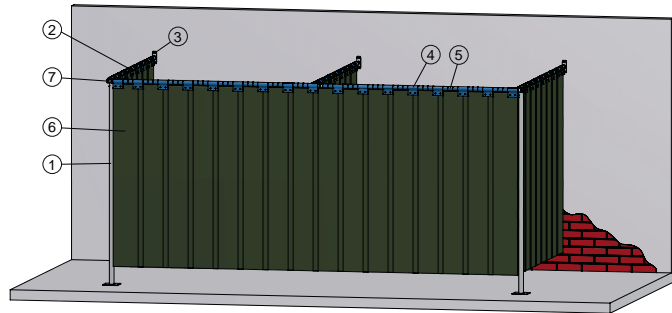
# » Welding protection strips

## Welding protection strips



**Example**  
of a welding protection strip system  
W 4.000 x D 2.000 x H 2.000 mm with welding strips S9,  
dark green, matt, ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 2 x 6 m 1" pipe, Part No.: 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 45 x pendular strip suspension clip, Part No. 70 190 127
- ⑤ 110 x spacer for 1" pipe, Part No. 70 190 129
- ⑥ 80 m welding protection strip S9, dark green, matt,  
Part No. 70 209 032
- ⑦ 5 x end cap for 1" pipe Part No. 70 190 133  
40 x cutting and punching

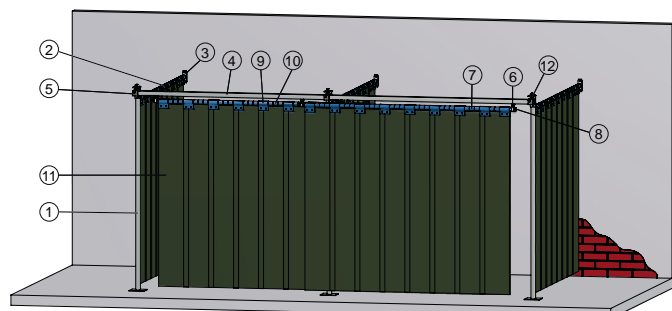


## Lateral sliding welding protection strips



**Example**  
of a lateral sliding welding protection strip system  
W 4.000 x D 2.000 x H 2.000 mm with welding protection strips S9,  
dark green, matt, ground clearance 200 mm:

- ① 3 x column for 1" pipe, Part No. 70 180 110
- ② 1 x 6 m 1" pipe, Part No. 70 190 144
- ③ 3 x wall mounting plate for 1" pipe, Part No. 70 190 135
- ④ 2 x 6 m C-profile, Part No. 70 124 106
- ⑤ 4 x end cap for C-profile, Part No. 70 120 107
- ⑥ 4 x travelling device for 1" pipe, Part No. 70 190 148
- ⑦ 1 x 6 m 1" pipe, Part No. 70 190 144
- ⑧ 4 x end cap for 1" pipe, Part No. 70 190 133
- ⑨ 45 x pendular strip suspension clip, Part No. 70 190 127
- ⑩ 110 x spacer for 1" pipe, Part No. 70 190 129
- ⑪ 80 m welding protection strip S9, dark green, matt, Part No. 70 209 032
- ⑫ 6 x universal rail fixing device for C-profile Part No. 70 190 112  
40 x cutting and punching



## Welding protection strips

### Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter
- » visual protection
- » Light dimming

### Properties

- » Safety panels in colour S0, clear are self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Welder protection panel is tested as per DIN EN ISO 25980
- » Suspension by means of suspension brackets or pipe clamps on a tube or C-profile
- » Strip overlap of 33%, 66% or 100%
- » Can be installed in fixed position or laterally movable

### Benefits

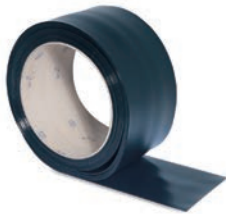
- » Individual protection configuration by selecting degree of overlap
- » Can be moved aside due to being attached to C-profile
- » Passages can be created at several points in the partition since the individual elements in combination with a C-profile can be pushed aside in both directions
- » Installation made easier and time is saved when mounted on folding KEMPER suspension brackets



### Welding Protection Strip S9, Dark Green, DIN EN ISO 25980

Part number = Price per m<sup>2</sup>

| Art. No.   | Description   |
|------------|---|
| 70 200 100 | 300 x 2 mm, overlap: 33 % = 50 mm, 3.00 kg/m <sup>2</sup>   |
| 70 200 101 | 300 x 2 mm, overlap: 66 % = 100 mm, 3.80 kg/m <sup>2</sup>  |
| 70 200 110 | 300 x 3 mm, overlap: 33 % = 50 mm, 4.80 kg/m <sup>2</sup>   |
| 70 200 111 | 300 x 3 mm, overlap: 66 % = 100 mm, 6.00 kg/m <sup>2</sup>  |
| 70 200 112 | 300 x 3 mm, overlap: 100 % = 150 mm, 7.20 kg/m <sup>2</sup> |



### Welding Protection Strip S9, Dark Green, DIN EN ISO 25980

Per metre - maximum length 50m per roll

| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 209 032 | 300 x 2 mm, per metre, 0.80 kg/m |
| 70 209 033 | 300 x 3 mm, per metre, 1.20 kg/m |



### Welding Protection Strip S7, Green, DIN EN ISO 25980

Part number = Price per m<sup>2</sup>

| Art. No.   | Description   |
|------------|---|
| 70 200 200 | 300 x 2 mm, overlap: 33 % = 50 mm, 3.00 kg/m <sup>2</sup>   |
| 70 200 201 | 300 x 2 mm, overlap: 66 % = 100 mm, 3.80 kg/m <sup>2</sup>  |
| 70 200 210 | 300 x 3 mm, overlap: 33 % = 50 mm, 4.80 kg/m <sup>2</sup>   |
| 70 200 211 | 300 x 3 mm, overlap: 66 % = 100 mm, 6.00 kg/m <sup>2</sup>  |
| 70 200 212 | 300 x 3 mm, overlap: 100 % = 150 mm, 7.20 kg/m <sup>2</sup> |



### Welding Protection Strip S7, Green, DIN EN ISO 25980

Per metre - maximum length 50m per roll

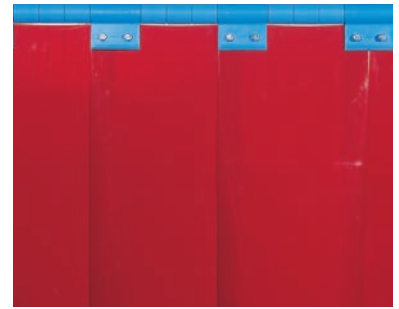
| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 204 032 | 300 x 2 mm, per metre, 0.80 kg/m |
| 70 204 033 | 300 x 3 mm, per metre, 1.20 kg/m |

## Welding protection strips

### Welding Protection Strip Red, DIN EN ISO 25980

Part number = Price per m<sup>2</sup>

| Art. No.   | Description   |
|------------|---|
| 70 200 400 | 300 x 2 mm, overlap: 33 % = 50 mm, 3.00 kg/m <sup>2</sup>   |
| 70 200 401 | 300 x 2 mm, overlap: 66 % = 100 mm, 3.80 kg/m <sup>2</sup>  |
| 70 200 410 | 300 x 3 mm, overlap: 33 % = 50 mm, 4.80 kg/m <sup>2</sup>   |
| 70 200 411 | 300 x 3 mm, overlap: 66 % = 100 mm, 6.00 kg/m <sup>2</sup>  |
| 70 200 412 | 300 x 3 mm, overlap: 100 % = 150 mm, 7.20 kg/m <sup>2</sup> |



### Welding Protection Strip Red, DIN EN ISO 25980

Per metre - maximum length 50m per roll

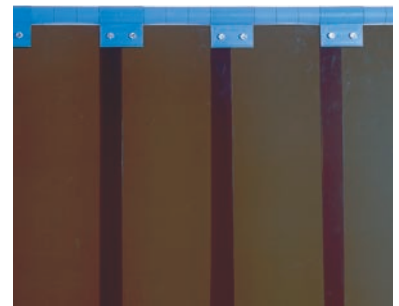
| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 202 032 | 300 x 2 mm, per metre, 0.80 kg/m |
| 70 202 033 | 300 x 3 mm, per metre, 1.20 kg/m |



### Welding Protection Strip Bronze, DIN EN ISO 25980

Part number = Price per m<sup>2</sup>

| Art. No.   | Description   |
|------------|---|
| 70 200 500 | 300 x 2 mm, overlap: 33 % = 50 mm, 3.00 kg/m <sup>2</sup>   |
| 70 200 501 | 300 x 2 mm, overlap: 66 % = 100 mm, 3.80 kg/m <sup>2</sup>  |
| 70 200 510 | 300 x 3 mm, overlap: 33 % = 50 mm, 4.80 kg/m <sup>2</sup>   |
| 70 200 511 | 300 x 3 mm, overlap: 66 % = 100 mm, 6.00 kg/m <sup>2</sup>  |
| 70 200 512 | 300 x 3 mm, overlap: 100 % = 150 mm, 7.20 kg/m <sup>2</sup> |



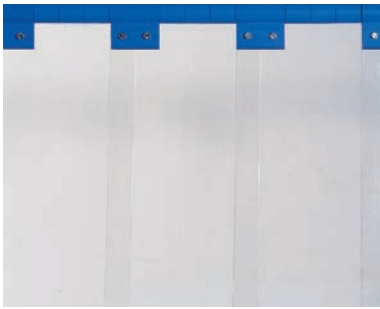
### Welding Protection Strip Bronze, DIN EN ISO 25980

Per metre - maximum length 50m per roll

| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 203 032 | 300 x 2 mm, per metre, 0.80 kg/m |
| 70 203 033 | 300 x 3 mm, per metre, 1.20 kg/m |



## Protection strips



### Protection Strip S0, Transparent

Part number = Price per m<sup>2</sup>

| Art. No.   | Description  |
|------------|--|
| 70 200 300 | 300 x 2 mm, overlap: 33 % = 50 mm, 3.00 kg/m <sup>2</sup>    |
| 70 200 301 | 300 x 2 mm, overlap: 66 % = 100 mm, 3.80 kg/m <sup>2</sup>   |
| 70 200 310 | 300 x 3 mm, overlap: 33 % = 50 mm, 4.80 kg/m <sup>2</sup>    |
| 70 200 311 | 300 x 3 mm, overlap: 66 % = 100 mm, 6.00 kg/m <sup>2</sup>   |
| 70 200 312 | 300 x 3 mm, overlap: 100 % = 150 mm, 7.20 kg/m <sup>2</sup>  |
| 70 200 321 | 300 x 5 mm, overlap: 66 % = 100 mm, 9.50 kg/m <sup>2</sup>   |
| 70 200 322 | 300 x 5 mm, overlap: 100 % = 150 mm, 12.50 kg/m <sup>2</sup> |



### Protection Strip S0, Transparent

Per metre - maximum length 50m per roll

| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 201 032 | 300 x 2 mm, per metre, 0.80 kg/m |
| 70 201 033 | 300 x 3 mm, per metre, 1.20 kg/m |
| 70 201 035 | 300 x 5 mm, per metre, 1.90 kg/m |
| 70 201 044 | 400 x 4 mm, per metre, 2.00 kg/m |



### Cutting and punching of welding protection strips

| Art. No.   | Description  |
|------------|--|
| 70 210 033 | Cutting and punching for clips and an overlap of 33 %        |
| 70 210 066 | Cutting and punching for clips and an overlap of 66 %        |
| 70 210 100 | Cutting and punching for clips and an overlap of 100 %       |
| 70 211 033 | Cutting and punching for pipe clamps and an overlap of 33 %  |
| 70 211 066 | Cutting and punching for pipe clamps and an overlap of 66 %  |
| 70 211 100 | Cutting and punching for pipe clamps and an overlap of 100 % |

## The KEMPER-pendular suspension clip

The big disadvantage of common strip suspensions and spacers is that they can only be mounted to the rail before erection.

After this, every single strip needs to be mounted to the strip suspensions with nuts and bolts, which is a complicated and time consuming procedure.

The folding KEMPER suspension clip offers a much easier and time saving installation.

The clips are delivered open and after finishing the installation of the rail system the suspension clip can simply be folded around the rail.

Subsequent to this, every single strip can easily be inserted into the suspension clip and held in place by special retaining rivets. The spacers work on the same principle.







### 1" pipe

Material thickness 3,25 mm, galvanized

| Art. No.   | Description                   |
|------------|-------------------------------|
| 70 190 145 | 1" pipe, length 3 m, 7,50 kg  |
| 70 190 144 | 1" pipe, length 6 m, 15,00 kg |



### End cap for 1" pipe

Made out of plastic

| Art. No.   | Description                           |
|------------|---------------------------------------|
| 70 190 133 | End cap for 1" pipe, plastic, 0,01 kg |



### Pipe clamp

Incl. nut and bolt

| Art. No.   | Description                     |
|------------|---------------------------------|
| 70 190 132 | Pipe clamp, galvanized, 0,10 kg |



### Metal hook for 1" pipe

To suspend welding curtains and welding strip curtains on a 1" pipe  
- galvanized, 7 metal hooks needed per curtain

| Art. No.   | Description  |
|------------|--|
| 70 120 109 | Metal hook for 1" pipe, 10 pieces / per set, 0,10 kg |
| 70 120 110 | Metal hook for 1" pipe, 13 pieces / per set, 0,13 kg |
| 70 120 111 | Metal hook for 1" pipe, 50 pieces / per set, 0,50 kg |



### Straight coupler for 1" pipe

Made of plastic, supplied with steel inlay

| Art. No.   | Description                                    |
|------------|--|
| 70 190 147 | Straight coupler for 1" pipe, plastic, 0,10 kg |

**Wall and ceiling fixture for 1" pipe**

| Art. No.   | Description   |
|------------|---|
| 70 190 123 | Wall and ceiling fixture for 1" pipe, galvanised, 0.40 kg |



**Wall mounting fixture for 1" pipe**

| Art. No.   | Description  |
|------------|--|
| 70 190 135 | Wall mounting fixture for 1" pipe, galvanised, 0.60 kg |



**Column for 1" pipe**

Galvanised, incl. foot and pipe fixture

| Art. No.   | Description  |
|------------|--|
| 70 180 110 | Column for 1" pipe, adjustable height 2,000 up to 3,000 mm, 60 x 60 x 2.5 mm, with foot plate 200 x 200 mm, 14.00 kg |



**Ceiling fixture with lowering device for 1" pipe**

Galvanised, lowering from 1,000 mm to 6,000 mm

| Art. No.   | Description   |
|------------|---|
| 70 190 121 | Ceiling fixture with lowering device for 1" pipe, galvanised, 3.00 kg |





### C-profile, 40 x 40 x 2.5 mm

Material thickness 2.5 mm, galvanised

| Art. No.   | Description                                       |
|------------|---|
| 70 124 107 | C-profile, 40 x 40 x 2.5 mm, length 3 m, 7.50 kg  |
| 70 124 106 | C-profile, 40 x 40 x 2.5 mm, length 6 m, 15.00 kg |



### 90°-elbow for C-profile

Galvanised, 40 x 40 x 2,5 mm

| Art. No.   | Description                                       |
|------------|---|
| 70 124 102 | 90°-elbow for C-profile, radius 400 mm, 2.60 kg   |
| 70 124 103 | 90°-elbow for C-profile, radius 1,000 mm, 3.90 kg |



### Straight coupler for C-profile

| Art. No.   | Description   |
|------------|---|
| 70 190 105 | Straight coupler for C-profile, galvanised, 0.65 kg |



### T-coupler for C-profile

| Art. No.   | Description                                  |
|------------|--|
| 70 190 107 | T-coupler for C-profile, galvanised, 1.30 kg |



### Sliding hooks for C-profile

To suspend welding curtains and welding strip curtains on a C-profile  
- made of plastic, 7 sliding hooks needed per curtain

| Art. No.   | Description   |
|------------|---|
| 70 120 112 | Sliding hooks for C-profile, 10 pieces / per set, 0,10 kg |
| 70 120 117 | Sliding hooks for C-profile, 13 pieces / per set, 0,13 kg |
| 70 120 113 | Sliding hooks for C-profile, 50 pieces / per set, 0,50 kg |



### End cap for C-profile

| Art. No.   | Description                             |
|------------|---|
| 70 120 107 | End cap for C-profile, Plastic, 0.01 kg |

**Ceiling fixture for C-profile**

| Art. No.   | Description  |
|------------|--|
| 70 190 108 | Ceiling fixture for C-profile, galvanised, 0.40 kg |



**Ceiling fixture for double-C-profile**

| Art. No.   | Description   |
|------------|---|
| 70 190 110 | Ceiling fixture for double-C-profile, galvanised, 0,80 kg |



**Wall fixture for C-profile**

| Art. No.   | Description                                     |
|------------|---|
| 70 190 113 | Wall fixture for C-profile, galvanised, 1.30 kg |



**Wall fixture for double-C-profile**

| Art. No.   | Description  |
|------------|--|
| 70 190 138 | Wall fixture for double-C-profile, galvanised, 1.90 kg |



**Side wall fixture for C-profile**

| Art. No.   | Description  |
|------------|--|
| 70 190 115 | Side wall fixture for C-profile, galvanised, 0.68 kg |



**Side wall fixture for double-C-profile**

| Art. No.   | Description   |
|------------|---|
| 70 190 117 | Side wall fixture for double-C-profile, galvanised, 1.30 kg |





### Limit stop for C-profile

With rubber bumper

| Art. No.   | Description                                   |
|------------|---|
| 70 120 100 | Limit stop for C-profile, galvanised, 0.10 kg |



### Ceiling fixture with lowering device for C-profile

Galvanised, lowering from 1.000 mm to 6.000 mm

| Art. No.   | Description   |
|------------|---|
| 70 190 120 | Ceiling fixture with lowering device for C-profile, galvanised, 3.00 kg |



### Universal rail fixing device for C-profile

| Art. No.   | Description   |
|------------|---|
| 70 190 112 | Universal rail fixing device for C-profile, galvanised, 0.36 kg |



### Carriage with 8 plastic rollers

Made of plastic

| Art. No.   | Description   |
|------------|---|
| 70 120 118 | Carriage with 8 plastic rollers and hooks to suspend welding strip curtains, plastic, 0.03 kg |



### Carriage with two ball bearing rollers

Made of metal

| Art. No.   | Description  |
|------------|--|
| 70 190 148 | Carriage with two ball bearing rollers and a pipe clamp suitable for a 1" pipe, metal, 0.22 kg |



**Carriage for C-Profile**

| Art. No.   | Description   |
|------------|---|
| 70 190 159 | Carriage for C-Profile, with 2 ball bearing steel rollers and plastic hook to hang welding protection curtains from |



**Column for C-profile**

Galvanised, incl. foot and C-profile fixture

| Art. No.   | Description  |
|------------|--|
| 70 180 109 | Column for C-profile, adjustable height 2,000 up to 3,000 mm, 60 x 60 x 2.5 mm, with foot plate 200 x 200 mm, 14.00 kg |



**Pendular clip for a 1" pipe including fixture nuts and bolts**

Made of plastic (5 pieces per set)  
- foldaway

| Art. No.   | Description  |
|------------|--|
| 70 190 127 | Pendular clip for a 1" pipe including fixture nuts and bolts, 5 pieces per set, plastic, 0.08 kg |



**Spacer for 1" pipe**

Made of plastic (10 pieces per set)

| Art. No.   | Description   |
|------------|---|
| 70 190 129 | Spacer for 1" pipe, plastic, 10 pieces per set, 0.02 kg |



**Pipe clamp for 1" pipe**

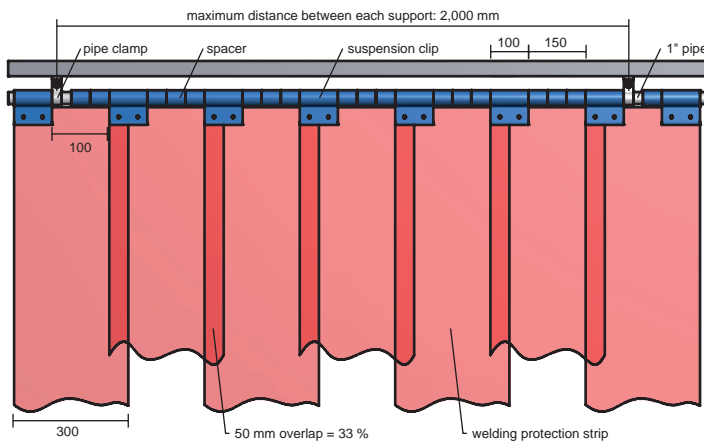
Galvanised

| Art. No.   | Description                                 |
|------------|---|
| 70 190 128 | Pipe clamp for 1" pipe, galvanised, 0,20 kg |



## Mounting system for welding protection strips

### Overlap 33 %



The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

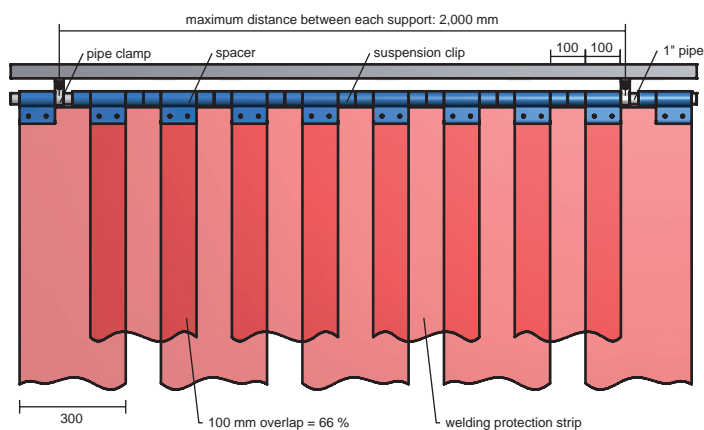
Attention: Fixed installation: only wall and ceiling fixtures (no travelling devices)

Lateral sliding installation: C-profile = double curtain width

Wall and ceiling fixtures for C-profile = 2 x travelling devices

| Curtain width and pipe length          | mm     | 550 | 800 | 1,050 | 1,300 | 1,550 | 1,800 | 2,050 | 2,300 | 2,550 | 2,800 | 3,050 | 3,300 | 3,550 | 3,800 | 4,050 | 4,300 | 4,550 | 4,800 | 5,050 | 5,300 | 5,550 | 5,800 | 6,050 | 6,300 | 6,550 | 6,800 | 7,050 | 7,300 | 7,550 | 7,800 |
|--|--------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding strips                         | pieces | 2   | 3   | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    |
| Suspension clips                       | pieces | 3   | 4   | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    |
| Spacers pieces                         | pieces | 3   | 6   | 9     | 12    | 15    | 18    | 21    | 23    | 26    | 29    | 32    | 35    | 38    | 41    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 66    | 69    | 72    | 75    | 78    | 81    | 84    | 87    |
| Ceiling fixtures or travelling devices | pieces | 2   | 2   | 2     | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     |

### Overlap 66 %



The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

Attention: Fixed installation: only wall and ceiling fixtures (no travelling devices)

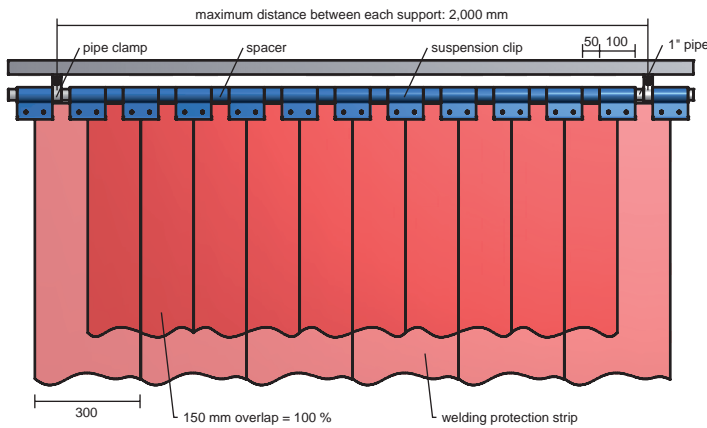
Lateral sliding installation: C-profile = double curtain width

Wall and ceiling fixtures for C-profile = 2 x travelling devices

| Curtain width and pipe length          | mm     | 500 | 700 | 900 | 1,100 | 1,300 | 1,500 | 1,700 | 1,900 | 2,100 | 2,300 | 2,500 | 2,700 | 2,900 | 3,100 | 3,300 | 3,500 | 3,700 | 3,900 | 4,100 | 4,300 | 4,500 | 4,700 | 4,900 | 5,100 | 5,300 | 5,500 | 5,700 | 5,900 | 6,100 | 6,300 |
|--|--------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Welding strips                         | pieces | 2   | 3   | 4   | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    |
| Suspension clips                       | pieces | 3   | 4   | 5   | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    |
| Spacers pieces                         | pieces | 2   | 4   | 6   | 8     | 10    | 12    | 14    | 16    | 17    | 19    | 21    | 23    | 25    | 27    | 29    | 31    | 33    | 35    | 36    | 38    | 40    | 42    | 44    | 46    | 48    | 50    | 52    | 54    | 55    | 57    |
| Ceiling fixtures or travelling devices | pieces | 2   | 2   | 2   | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 5     | 5     |       |

## Mounting system for welding protection strips

Overlap 100 %



The drawing and table below show the exact quantity of parts required, based on the total width of welding protection strips.

Attention: Fixed installation: only wall and ceiling fixtures (no travelling devices))

Lateral sliding installation: C-profile = double curtain width

Wall and ceiling fixtures for C-profile = 2 x travelling devices

| Curtain width and pipe length          | mm     | 450 | 600 | 750 | 900 | 1,050 | 1,200 | 1,350 | 1,500 | 1,650 | 1,800 | 1,950 | 2,100 | 2,250 | 2,400 | 2,550 | 2,700 | 2,850 | 3,000 | 3,150 | 3,300 | 3,450 | 3,600 | 3,750 | 3,900 | 4,040 | 4,200 | 4,350 | 4,500 | 4,650 | 4,800 |   |
|--|--------|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| Welding strips                         | pieces | 2   | 3   | 4   | 5   | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    |   |
| Suspension clips                       | pieces | 4   | 5   | 6   | 7   | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    |   |
| Spacers pieces                         | pieces | 1   | 2   | 3   | 4   | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 23    | 24    | 25    | 26    | 27    | 28    |   |
| Ceiling fixtures or travelling devices | pieces | 2   | 2   | 2   | 2   | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     | 4     | 4 |

### Cutting and punching of welding protection strips

| Art. No.   | Description  |
|------------|--|
| 70 210 033 | Cutting and punching for clips and an overlap of 33 %        |
| 70 210 066 | Cutting and punching for clips and an overlap of 66 %        |
| 70 210 100 | Cutting and punching for clips and an overlap of 100 %       |
| 70 211 033 | Cutting and punching for pipe clamps and an overlap of 33 %  |
| 70 211 066 | Cutting and punching for pipe clamps and an overlap of 66 %  |
| 70 211 100 | Cutting and punching for pipe clamps and an overlap of 100 % |



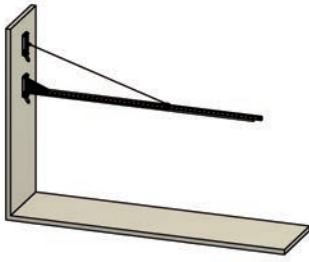
### Rigid screens

Rigid screens for use in protection cabins

| Art. No.   | Description   |
|------------|---|
| 70 300 166 | Rigid screen, red shade 3, UV protection, 1,250 x 2,500 mm, thickness: 3 mm           |
| 70 300 167 | Rigid screen S9, dark green shade 6, UV protection, 1,250 x 2,500 mm, thickness: 3 mm |
| 70 212 100 | Cut to measured sizes (+ 10 % to cover wastages)                                      |



## Pivoting Arm



### Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter

### Properties

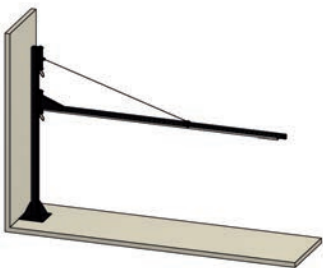
- » For curtain version: C-Profile for fitting
- » For curtain and panel version: Pipe (1") for fitting
- » Length from 2 m to 6 m
- » For wall mounting

### Order Data

| Art. No.   | Description  |
|------------|--|
| 70 700 250 | For welding curtains: Length 2,000 mm                    |
| 70 700 251 | For welding curtains: Length 3,000 mm                    |
| 70 700 252 | For welding curtains: Length 4,000 mm                    |
| 70 700 253 | For welding curtains: Length 5,000 mm                    |
| 70 700 254 | For welding curtains: Length 6,000 mm                    |
| 70 700 255 | For welding curtains and welding strip, Length: 2,000 mm |
| 70 700 256 | For welding curtains and welding strip, Length: 3,000 mm |
| 70 700 257 | For welding curtains and welding strip, Length: 4,000 mm |
| 70 700 258 | For welding curtains and welding strip, Length: 5,000 mm |
| 70 700 259 | For welding curtains and welding strip, Length: 6,000 mm |

\*Note: Additional guy wire is provided only for pivoting arms with length of 5 m and 6 m.

## Pivoting Arm Including Column



### Applications

- » For separating individual work and factory areas
- » Protection against harmful radiation, welding arcs and spatter

### Properties

- » Pillar with pivoting arm
- » For curtain version: C-Profile for fitting
- » For curtain and panel version: Pipe (1") for fitting
- » Length from 2 m to 6 m

| Art. No.   | Description  |
|------------|--|
| 70 700 650 | For welding curtains: Length 2,000 mm                    |
| 70 700 651 | For welding curtains: Length 3,000 mm                    |
| 70 700 652 | For welding curtains: Length 4,000 mm                    |
| 70 700 653 | For welding curtains: Length 5,000 mm                    |
| 70 700 654 | For welding curtains: Length 6,000 mm                    |
| 70 700 655 | For welding curtains and welding strip, Length: 2,000 mm |
| 70 700 656 | For welding curtains and welding strip, Length: 3,000 mm |
| 70 700 657 | For welding curtains and welding strip, Length: 4,000 mm |
| 70 700 659 | For welding curtains and welding strip, Length: 5,000 mm |
| 70 700 660 | For welding curtains and welding strip, Length: 6,000 mm |

\*Note: Additional guy wire is provided only for pivoting arms with length of 5 m and 6 m.

## Swivel Arm Wall Mounted, Lockable And Telescopic

### Applications

- » For flexibly separating individual work and factory areas
- » For protective welding curtains and strips
- » Protection against harmful radiation, welding arcs and spatter

- » For curtains and protection strips
- » Lockable and telescopic

### Properties

- » Can be locked into position
- » Length 1.5 m and 2 m
- » Telescopically extendable to 2 m and 3 m
- » Tube (1") for attaching welding curtains
- » Mounting on a pillar or on a wall using a wall bracket

### Benefits

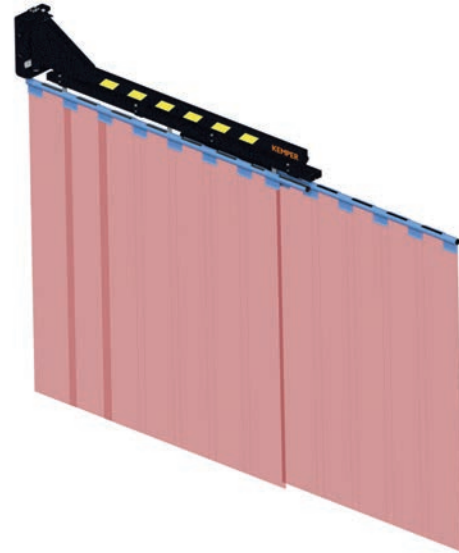
- » Partition can be extended or pushed together flexibly due to telescoping facility
- » Easy operation of the telescoping facility by means of a chain
- » Increased safety for persons and equipment due to locking.
- » Space-saving because the pivoting arm can easily be folded aside
- » Fast set-up of partition by simply unfolding the pivoting wall arm

### Variants

- » Various arm lengths and telescopic lengths

### Order Data

| Art. No. | Description                        |
|----------|------------------------------------|
| 131 5570 | Latching and telescop, 1,5 m - 2 m |
| 131 4874 | Latching and telescop, 2 m - 3 m   |



## 1-Panel Protective Screen With Curtain



### Applications

- » Protection against harmful radiation, welding arcs and spatter

### Properties

- » Foil welding curtain fabric
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- » Low weight
- » Ground clearance 100 mm

### Scope of supply

- » Support frame
- » Welding curtain
- » Fixing material

### Technical Data

| Basic data |          |
|------------|----------|
| Width      | 1,450 mm |
| Height     | 1,900 mm |
| Thickness  | 0.4 mm   |

### Order Data

| Art. No.   | Description                          |
|------------|--------------------------------------|
| 70 600 301 | S9, dark green, matt                 |
| 70 600 302 | S7, green                            |
| 70 600 304 | red                                  |
| 70 600 303 | Transparent, S0, against dust, draft |

## 1-Panel Protective Screen With Curtain



### Applications

- » Protection against harmful radiation, welding arcs and spatter

### Properties

- » Sturdy frame made of rectangular tubing
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- » Wheel kit (optional)
- » Ground clearance 165 mm

### Scope of supply

- » Support frame
- » Welding curtain
- » Metal hooks

### Technical Data

| Basic data |          |
|------------|----------|
| Width      | 2,100 mm |
| Height     | 1,830 mm |
| Thickness  | 0.4 mm   |

### Order Data

| Art. No.   | Description                          |
|------------|--------------------------------------|
| 70 600 500 | S9, dark green, matt                 |
| 70 600 503 | S7, green                            |
| 70 600 501 | red                                  |
| 70 600 502 | Transparent, S0, against dust, draft |
| 70 600 699 | Wheel set                            |

## 3-Panel Protective Screen With Curtain

### Applications

- › Protection against harmful radiation, welding arcs and spatter

### Benefits

- › Extremely flexible due to the pivoting arms and optional wheel kit

### Properties

- › Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- › Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- › Colour S7, S9 Dark Green and Red are DIN EN ISO 25980 certified
- › Wheel kit (optional)
- › Ground clearance 165 mm

### Scope of supply

- › Support frame
- › Welding curtain
- › Metal hooks

### Order Data

| Art. No.   | Description                          |
|------------|--------------------------------------|
| 70 600 550 | S9, dark green, matt                 |
| 70 600 560 | S7, green                            |
| 70 600 551 | red                                  |
| 70 600 552 | Transparent, S0, against dust, draft |
| 70 600 699 | Wheel set                            |



### Technical Data

| Basic data |          |
|------------|----------|
| Width      | 3,800 mm |
| Height     | 1,830 mm |
| Thickness  | 0.4 mm   |



## 1-Panel Protective Screen With Protection Strips



### Applications

- » Protection against harmful radiation, welding arcs and spatter

### Properties

- » Sturdy frame made of rectangular tubing
- » Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- » S9 dark green and red are DIN EN ISO 25980 tested
- » Wheel kit (optional)
- » Ground clearance 165 mm

### Scope of supply

- » Support frame
- » Strips
- » Metal hooks

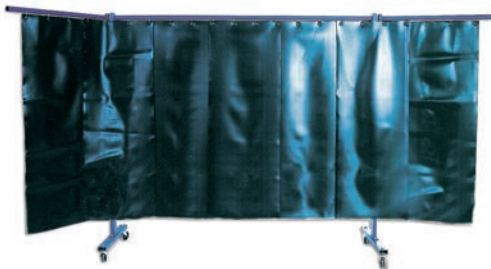
### Order Data

| Art. No.          | Description                             |
|-------------------|---|
| <b>70 600 701</b> | S9, dark green, matt                    |
| <b>70 600 702</b> | Red                                     |
| <b>70 600 703</b> | S0, Transparent, against dust and draft |
| <b>70 600 699</b> | Wheel set                               |

### Technical Data

| Basic data |          |
|------------|----------|
| Width      | 2,100 mm |
| Height     | 1,830 mm |
| Thickness  | 1 mm     |

## 3-Panel Protective Screen With Protection Strips



### Applications

- » Protection against harmful radiation, welding arcs and spatter

### Properties

- » Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- » Welding strip curtain complies with DIN EN ISO 25980
- » Wheel kit (optional)
- » Ground clearance 165 mm

### Scope of supply

- » Support frame
- » Strips
- » Metal hooks

### Order Data

| Art. No.          | Description          |
|-------------------|----------------------|
| <b>70 600 664</b> | S9, dark green, matt |
| <b>70 600 665</b> | Red                  |
| <b>70 600 699</b> | Wheel set            |

### Technical Data

| Basic data |          |
|------------|----------|
| Width      | 3,800 mm |
| Height     | 1,830 mm |
| Thickness  | 1 mm     |

## 1-Panel Protective Screen With Protection Strips

### Properties

- › Sturdy frame made of rectangular tubing
- › Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- › S9 dark green and red are DIN EN ISO 25980 tested
- › Wheel kit (optional)
- › Width: 2.10 m, height: 1.83 m, ground clearance: 470 mm

### Scope of supply

- › Support frame
- › Strips
- › Suspension brackets
- › Spacers



### Order Data

| Art. No.   | Description   |
|------------|---|
| 70 600 600 | S9, dark green, matt, Thickness: 2mm                    |
| 70 600 601 | S9, dark green, matt, Thickness: 3mm                    |
| 70 600 602 | Red, Thickness: 2 mm                                    |
| 70 600 603 | Red, Thickness: 3 mm                                    |
| 70 600 604 | S0, Transparent, Thickness: 2mm, against dust and draft |
| 70 600 605 | S0, Transparent, Thickness: 3mm, against dust and draft |
| 70 600 699 | Wheel set   |

## 3-Panel Protective Screen With Protection Strips

### Properties

- › Stable, 3-section support frame (base frame with 2 unfolding pivoting arms)
- › Colour S0, clear is self-extinguishing, class K 1, as per DIN 53 438, part 2
- › S9 dark green and red are DIN EN ISO 25980 tested
- › Wheel kit (optional)
- › Width: 3.80 m (central panel 2.10 m + 2 swivelling arms, 0,85 m each), height: 1.83 m, ground clearance: 470 mm

### Scope of supply

- › Support frame
- › Strips
- › Suspension brackets
- › Spacers



### Order Data

| Art. No.   | Description   |
|------------|---|
| 70 600 650 | S9, dark green, matt, Thickness: 2mm                    |
| 70 600 651 | S9, dark green, matt, Thickness: 3mm                    |
| 70 600 652 | Red, Thickness: 2 mm                                    |
| 70 600 653 | Red, Thickness: 3 mm                                    |
| 70 600 654 | S0, Transparent, Thickness: 2mm, against dust and draft |
| 70 600 655 | S0, Transparent, Thickness: 3mm, against dust and draft |
| 70 600 699 | Wheel set   |



## » Sound insulating partitioning wall systems



The KEMPER sound insulating partitioning wall system can be built into any design combination due to different modular elements.

The modular elements consist of perforated plates, which are finished with UV-ray absorbent powder coating. Each element consists of perforated plates and a filling of compressed mineral wool according to DIN 4102, which is also finished with UV-ray absorbent powder coating.

Out of these components it is easy to construct complete welding bays, in which exhaust arms could be mounted.

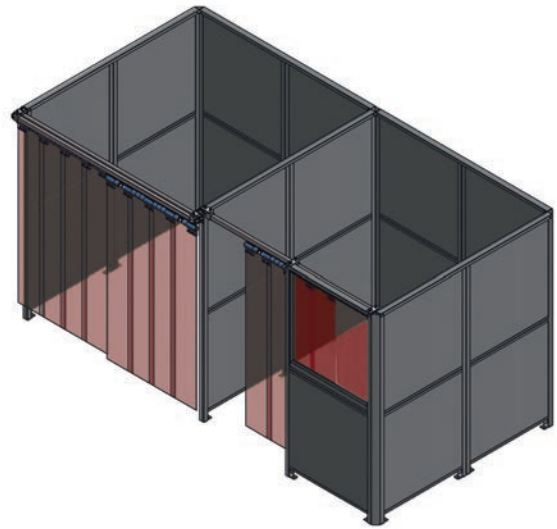
The outside facing columns can be fitted with different mounting devices for curtains, welding strips, etc.



### Equipment for schools

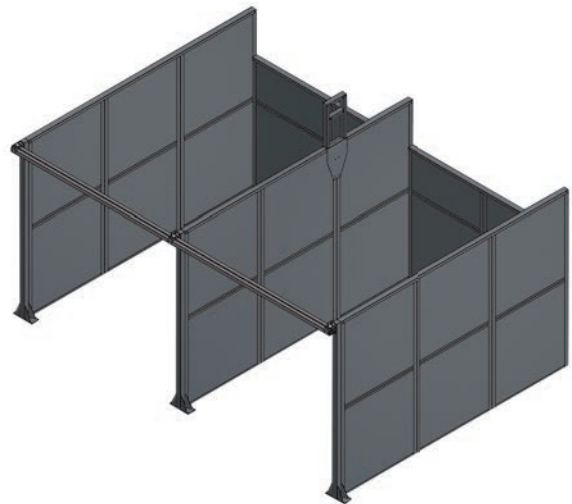
KEMPER sound insulating and partitioning wall systems are also available for schools and training workshops.

Different versions of the booths allow students to be observed either through a window or through the entrance of the booth. The openings can be separated either through a fixed curtain system or one that can be pushed to one side.



### Wall partitioning system

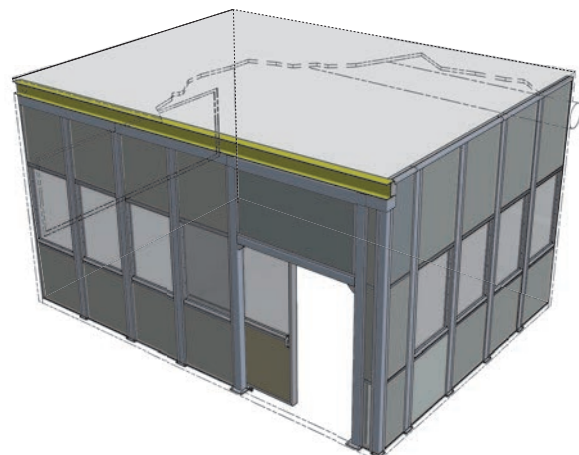
This example shows different possibilities of construction with modular elements.



### Workshop partitioning

If you want a work area to be partitioned as far up as the ceiling, our workshop partitioning is the answer.

The pictures show how two walls with protective windows and sliding doors form a new room in a workshop.



## Booths

Using KEMPER soundproof partitioning systems, it is possible to erect fully enclosed booths within a manufacturing facility.

The individual plates can be supplied either in a perforated sheet version, or, for improved sound insulation, from perforated sheet on the inside and solid sheet on the outside.

**Naturally we can assist you in planning the booths to meet your requirements.**

The grinding booths are available in the following versions:

### 1. Enclosed booth with a double-hinged door

The roof of the booth consists of two segments. The double-hinged doors can be secured with a bolt and the door can be locked.

### 2. Enclosed booth with hinged door

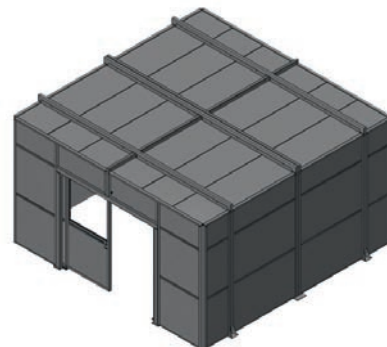
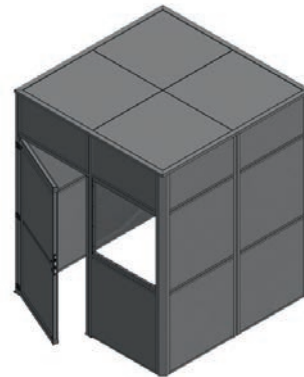
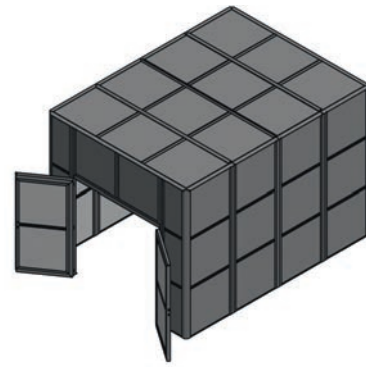
The basis of the roof is a solid framework and next to the hinged door is a window with a pane of clear Perspex. The hinged door can be locked.

### 3. Enclosed booth with double sliding door

The roof of the booth consists of box elements and the entire cabin is mainly constructed from standard partitioning elements. The double sliding window is made of clear Perspex.

### 4. Enclosed booth with sliding door

The construction of this booth is based on standard components and a roof of frame segments. The sliding door features a red protective pane at the top.



Contact us directly for detailed information on our sound insulating partitioning wall systems and wall partitioning systems!

Tel. +44 (0) 1327 872 909 or +49 (0) 2564 68 0 or [mail@kemper.eu](mailto:mail@kemper.eu)

**Properties**

- » Enclosed grinding booth with folding door, window and roof
- » Soundproof elements from laminated mineral wool, 1 x 50 mm thick, exterior full metal, interior perforated metal
- » Solid bolted construction made of sheet metal with powder coating
- » Window, glass pane clear, 860 x 860 mm
- » Folding door, 2,025 x 920 mm

**Grinding booth with roof**

- » Enclosed with roof
- » With folding door and window

**Order Data**

| Art. No.          | Dimensions (w x d x h)   | Colour         |
|-------------------|--------------------------|----------------|
| <b>95 001 112</b> | 2,200 x 2,200 x 2,668 mm | grey, RAL 7040 |
| <b>95 001 114</b> | 2,200 x 3,270 x 2,668 mm | grey, RAL 7040 |
| <b>95 001 113</b> | 3,270 x 3,270 x 2,668 mm | grey, RAL 7040 |

\* further sizes available on enquiry/request



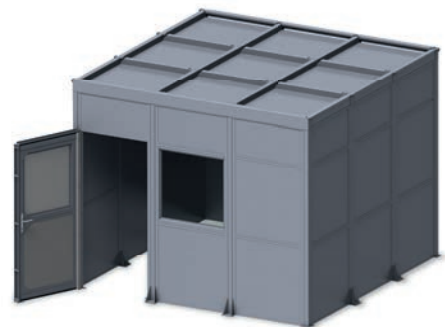
95 001 112



95 001 114



95 001 113



**Rigid screens**

Rigid screens for use in protection cabins

| Art. No.          | Description   |
|-------------------|---|
| <b>70 300 166</b> | Rigid screen, red shade 3, UV protection, 1,250 x 2,500 mm, thickness: 3 mm           |
| <b>70 300 167</b> | Rigid screen S9, dark green shade 6, UV protection, 1,250 x 2,500 mm, thickness: 3 mm |
| <b>70 212 100</b> | Cut to measured sizes (+ 10 % to cover wastages)                                      |



## Mobile soundproof wall



### Applications

- » Protection against noise pollution from neighbouring workstations
- » Protection against radiation, arcs and spatter

### Properties

- » Soundproof elements from laminated mineral wool, 2 x 50 mm thick with perforated metal cover and inserted solid metal sheet
- » Solid bolted construction made of sheet metal with powder coating
- » 4 lockable castors, diameter 125 mm for easy movement
- » Low ground clearance for ideal insulation

### Order Data

| Art. No.    | Description                         | Wall thickness | Ground Clearance | Weight   |
|-------------|-------------------------------------|----------------|------------------|----------|
| 99 880 2874 | (W x D x H): 1,520 x 800 x 2,110 mm | 100 mm         | 90 mm            | 154.5 kg |
| 99 880 2756 | (W x D x H): 2,020 x 800 x 2,110 mm | 100 mm         | 90 mm            | 174 kg   |

## Attachment soundproof wall



### Benefits

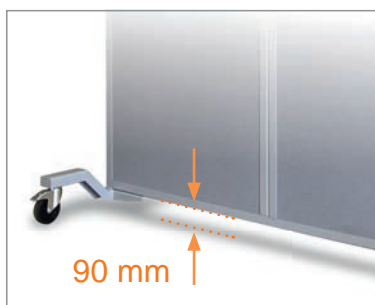
- » Further noise reduction from neighboring workstations.
- » Better protection from UV Rays, welding arc and spatter.

### Properties

- » Soundproof elements from laminated mineral wool, 1 x 50 mm thick with perforated metal cover
- » Solid bolted construction made of sheet metal with powder coating

### Order Data

| Art. No.    | Description             | Depth of wall with attachment | Height of wall with attachment | Wall thickness | Weight |
|-------------|-------------------------|-------------------------------|--------------------------------|----------------|--------|
| 99 880 2883 | (W x D): 1,520 x 500 mm | 970 mm                        | 2,470 mm                       | 50 mm          | 41 kg  |
| 99 880 2746 | (W x D): 2,020 x 500 mm | 970 mm                        | 2,470 mm                       | 50 mm          | 53 kg  |



**Applications**

- » For light loads in vertical use
- » Protection against welding spatter, flying sparks and grinding sparks

**Properties**

- » lined on all sides
- » Made from uncoated glass fibre material
- » Resistant up to 400° C, briefly up to 650° C

**Order Data**

| Art. No.   | Description                         |
|------------|-------------------------------------|
| 70 150 100 | 1,000 x 1,000 mm, 0.75 mm thickness |
| 70 150 110 | 2,000 x 1,000 mm, 0.75 mm thickness |
| 70 150 120 | 2,000 x 2,000 mm, 0.75 mm thickness |
| 70 150 130 | 3,000 x 2,000 mm, 0.75 mm thickness |

**Applications**

- » For moderate load in vertical use
- » Protection against weld spatter, flying sparks and grinding sparks

**Properties**

- » lined on all sides
- » Made from vermiculite coated fiberglass
- » Resistant up to 550° C, briefly up to 750° C

**Order Data**

| Art. No.   | Description                      |
|------------|----------------------------------|
| 70 155 100 | 1000 x 1000 mm, 1 mm thickness   |
| 70 155 110 | 2.000 x 1.000 mm, 1 mm thickness |
| 70 155 120 | 2.000 x 2.000 mm, 1 mm thickness |
| 70 155 130 | 3.000 x 2.000 mm, 1 mm thickness |

**Applications**

- » For moderate to high load with vertikal and horizontal use
- » Protection against weld spatter, flying sparks, grinding sparks and slag

**Properties**

- » lined on all sides
- » Made from uncoated silicon dioxide
- » Resistant up to 900° C, briefly up to 1,350° C

**Order Data**

| Art. No.   | Description                        |
|------------|------------------------------------|
| 70 160 100 | 910 x 1,000 mm, 0,6 mm thickness   |
| 70 160 110 | 1,760 x 1,000 mm, 0,6 mm thickness |
| 70 160 120 | 1760 x 2.000 mm, 0,6 mm thickness  |
| 70 160 130 | 1760 x 3.000 mm, 0,6 mm thickness  |

**Welding Blankets 650°C**

- » Up to 650°C
- » Different sizes



**Welding Blanket 750°C**

- » Up to 750°C
- » Different sizes



**Welding Blanket 1,350°C**

- » Up to 1,350°C
- » Different sizes



**KEMPER<sup>®</sup>**

**KEMPER**



## Worth Knowing

|                                 |     |
|---------------------------------|-----|
| About us                        | 162 |
| Overview Duct Systems           | 164 |
| Overview exhaust range          | 166 |
| Regulations and legislation     | 168 |
| Presales and aftersales service | 172 |
| Contact                         | 173 |
| Order form                      | 174 |
| Terms and conditions            | 175 |
| Index                           | 176 |



# »» About us

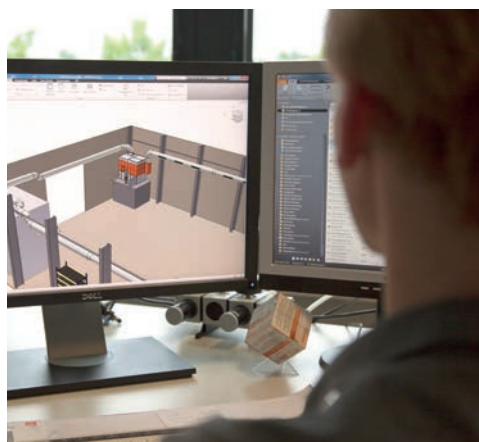
KEMPER was founded in Vreden, Germany, in 1977 and is a pioneer and a leader in technology in the field of welding smoke extraction. That means over 35 years of experience in plant construction for these products, a deep knowledge of the processes in metalworking plants and a high degree of reliability and continuity.

Today, KEMPER is a successful family business. Neither its growth nor its international focus have changed this important aspect of its identity: dealing with KEMPER is personal, as in a family. The satisfaction of its customers and employees is more important than anything else. This is guaranteed by its vast experience coupled with the desire for a reliable, trustworthy cooperation.

KEMPER doesn't fall behind. The innovations in filter devices and extraction equipment are geared to the needs of customers and regularly exceed the specified legal requirements. This results in absolute legal certainty for occupational health & safety and environmental requirements for users.



The KEMPER headquarters in Vreden, Germany.



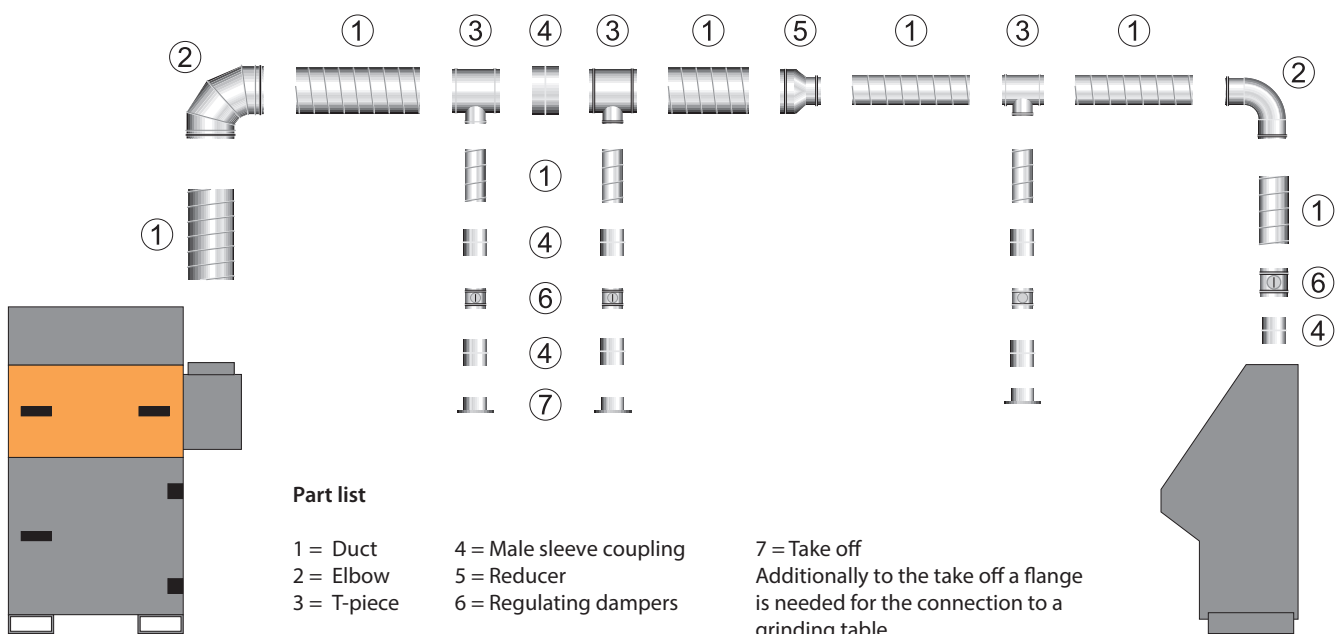
# » Ducting systems



## The KLS ducting system

A complete range for the construction of individual ducting systems. All formed parts have a double lip sealing system of a non-ageing EPDM-elastics. Thereby the system becomes pressure-firm corresponding to the tightness class B according to Eurovent regulations. No rework of the joints with tape or silicon is necessary.

Certainly we would like to provide with a computer calculated ducting layout. Therefore please send us a sketch with your specifications. As an example you see a ducting construction for a filter unit with three exhaust arms and one grinding table. For the required parts please refer to the list below.



The KLS-ducting system convinces by:

- » Fast and easy installation
- » No sealing work
- » Pre-installed gaskets
- » Ecological no silicon, tape or mastic
- » Withstands positive pressure up to + 3.000 Pa
- » Withstands negative pressure up to - 5.000 Pa
- » Temperature resistant from - 30 °C to + 100 °
- » Appealing design



**Installation**

**Preparation**

The materials have to be clean.  
The lengthening of the ducts has to be completed right-angled, and the shortened duct end has to be fettled.

**Installation of shaped pieces**

- » Plug the end of the formed piece completely in up to the seam.  
For an easier installation rotate the piece slightly.
- » Now the formed piece can be fixed onto the duct by means of self-tapping screws or rivets.

Please refer to the table below for screws or rivets needed for installation:

| Ø mm      | Min. screws Ø mm | Quantity |
|-----------|------------------|----------|
| 63 - 125  | 3,2              | 2        |
| 140 - 250 | 3,2              | 3        |
| 280 - 710 | 3,2              | 4        |

- » Screws and rivets have to be inserted 10 - 15 mm away from the edge of the formed piece. Otherwise the gaskets get damaged.



Contact us directly for detailed information on our ducting system!

Tel. +44 (0) 1327 872 909 or +49 (0) 2564 68 0 or [mail@kemper.eu](mailto:mail@kemper.eu)





## » Exhaust gas extraction in the automotive sector

KEMPER is international market leader in extraction and filter systems. This technology leadership and the experience of more than 35 years in plant construction also provides benefits to related applications such as the safe extraction of vehicle emissions.

If combustion engines are operated in closed rooms, then vehicle emissions have to be extracted. Otherwise, there is a risk of severe health damage due to carcinogens. Besides, toxic gases threaten the sensitive electronic parts of maintenance stations. KEMPER offers reliable technologies that make the work in garages safer, cleaner and more efficient.

KEMPER knows what matters in practice. The objective is to create occupational safety and legal security for users and companies that will result in sustainable performance assurance of a company.

Find out more about exhaust extractions and our products, by looking at our [separate vehicle exhaust catalogue](#) or on our website [www.exhaust-gas.com](http://www.exhaust-gas.com).

## » Extract from the vehicle exhaust range

### Mobile



### With hose and fan



### With hose reel



# » Regulations and Legislation



## The most important things first:

- » During welding, cutting and allied processes such as thermal spraying or soldering, fumes, gases and particles are released. These emissions are classified as hazardous substances.
- » These particles can be inhaled, in most cases they may even reach the alveoli and, depending on the chemical composition, can cause severe respiratory diseases and even cancer.
- » The emissions also contain a very high number of nanoparticles that can penetrate into human cells and there they may have an as yet unresearched toxicological effect.
- » Primarily for reasons of occupational safety, but also for those of environmental protection, measures for air pollution control are required. In this case, the extraction of the emissions at the source represents the best possible protection.

## The most important regulations:

Determining working conditions

- » **End-user's obligation** to take protective measures, to check them regularly and document them.  
**No work to be started without protection measures.**

Particulate hazardous substances

- » Complete **capture at source, air recirculation** only after adequate cleaning.
- » Extraction and filter systems must include **state of the art technology** and are to be **checked at least annually** for correct functioning and effectiveness.

Sequence of protection measures to reduce exposure to hazardous substances for employees:

1. Selection of processes and filler metals low in hazardous substances- **substitution**
2. Ventilation measures - **capturing emissions**
3. Organizational and hygiene measures - **avoiding contact, inhalation**
4. Personal protection - **wearing breathing protection**

## Hazard Assessment

Due to the classification of welding fumes as a hazardous substance, a risk assessment must be carried out. This is done in 5 easy steps:

1. Composition of welding fumes affected by:

- » **Base material**
- » **Coatings**
- » **Filler metal** and
- » **Process gases.**

2. Determining the health hazards of welding smoke constituents:

- » **Substances that place strain on respiratory tract and lungs** (eg: iron oxides, aluminium oxide)
- » **Toxic or toxic-irritating substances** (eg: manganese oxide, copper oxide, zinc oxide)
- » **carcinogenic substances** (eg: chromium (VI) compounds, nickel oxide)

3. Determining the hazard class depending on the procedure.

Hazard class of procedures

| Procedure   | Emission rate (mg/s) | Substances that place strain on respiratory tract and lungs | Toxic or toxicirritating substances | Carcinogenic substances |
|---|----------------------|---|-------------------------------------|-------------------------|
| Submerged arc   | < 1                  | low   | low                                 | low                     |
| Gas welding (autogenous procedure)  | < 1                  | low   | low                                 | -                       |
| TIG   | < 1                  | low   | medium                              | medium                  |
| Laser welding without filler metal  | 1 to 2               | medium  | high                                | high                    |
| MIG/MAG (low-energy gas-shielded welding) Soldering   | 1 to 4               | low   | medium                              | medium to high          |
| Electric arc, MIG (general) MAG (solid wire), fluxcored wire welding with shield gas, laser welding with filler metal | 2 to 25              | high  | high                                | high                    |
| MAG (flux-cored wire); flux-cored wire welding without shield gas Autogenous flame cutting Electric arc spraying      | >25                  | very high   | very high                           | very high               |

4. Determining working conditions

- » **Spatial conditions**
- » **Head and body position in overhead position**
- » **Welding time**

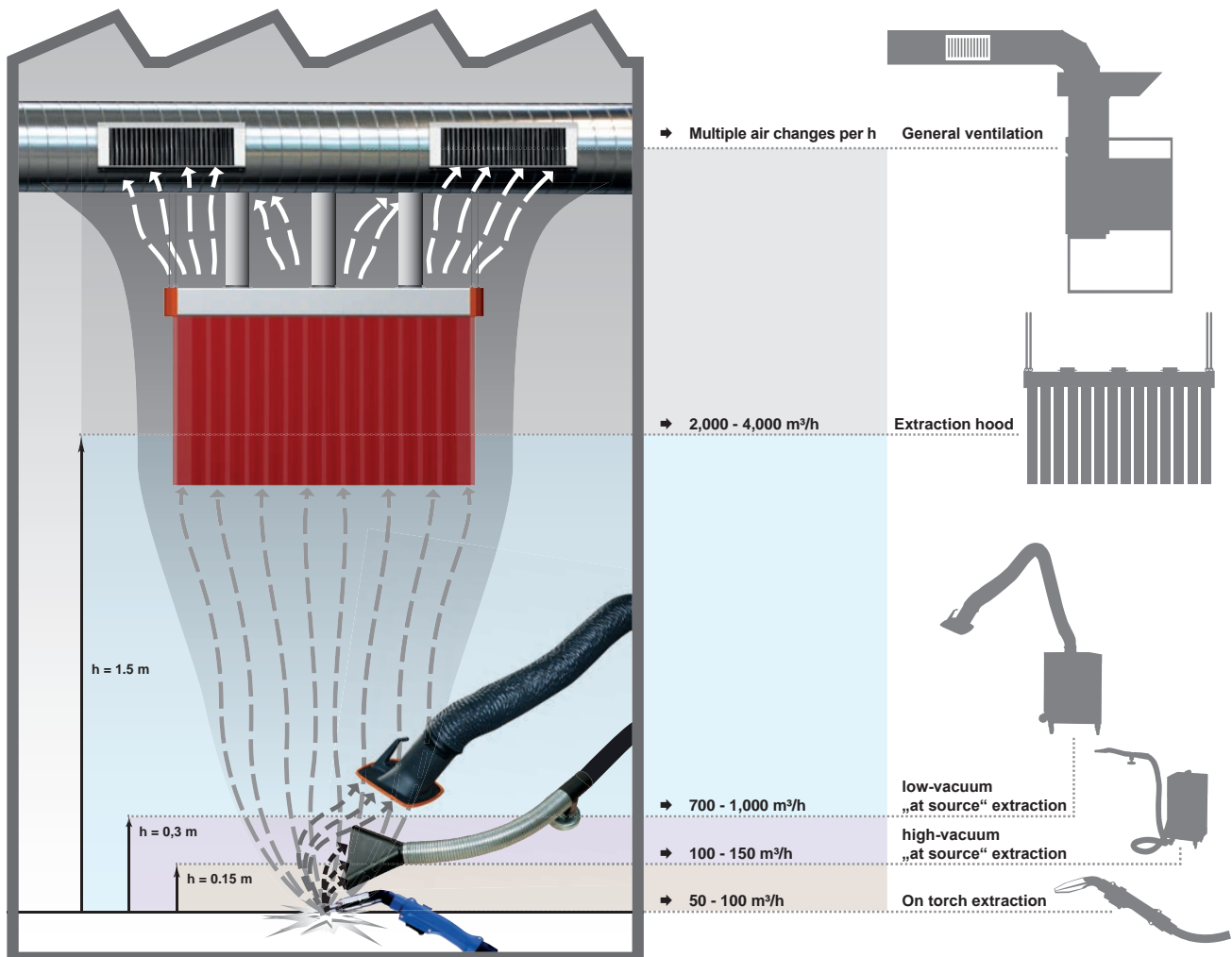
5. The overall risk assessment is based on the hazard class (step 3) and working conditions (step 4):

- » The hazard may be increased, for example, if welding time is long and/or welding is carried out in an overhead position
- » On the other hand, with short welding times, or welding work outdoors, the hazard may be reduced.



## Measures

There are different possible ways of capturing harmful emissions



### 1. Source extraction integrated into the welding torch

- » Integration into the system
- » Low air flow
- » Good to very good capture rate

### 2. High vacuum - source extraction system

- » Efficient source extraction through suction nozzles
- » Good capture rate up to a distance of 150 mm
- » Simple connection to the extraction system by hoses

### 3. Low vacuum - Source extraction system

- » Easy to use with flexible extraction arms with ease of movement
- » Freely positionable hoods
- » High capture rate at up to 400 mm away

### 4. Exhaust hood

- » Adjustment of the exhaust hood to the respective work area
- » Capture of the entire thermal flow from the weld area
- » Very low negative pressure required

### 5. General ventilation systems

- » Two methods: Displacement ventilation (layered ventilation) or mixed air ventilation
- » Extraction is carried out at a height of 4-6 m
- » To complement the methods already mentioned or if other methods cannot be used

## Effectiveness check

The effectiveness of the protective measures taken is to be checked, if necessary to be rectified and the result to be documented.

1. Measurement of the concentration of hazardous substances in air at the workplace
  - » Welding work stations: Alveolar dust fraction relevant
  - » Mixed work stations: Respirable dust fraction relevant
  - » Cancer-causing compounds require separate calculation
2. Exposure data to be compared with occupational exposure limit values (local regulations)
  - » If exceeded: take further or appropriate protective measures and carry out hazard assessment again
3. Document the results

## General dust limit value (ASGW), Germany

- » New occupational exposure limit for dust since 2014
  - 1.25 mg/m<sup>3</sup> Alveolar dust fraction relevant
  - 10 mg/m<sup>3</sup> Respirable dust fraction relevant

## Occupational exposure limit values

The occupational exposure limit values that apply depend on the materials used

- » Iron, aluminum, magnesium, titanium oxide
  - General dust limit value as per local regulations
- » Substances with particularly toxic properties
  - Substance-specific limit values as per local regulations
- » Carcinogenic substances such as chromium-IV compounds or nickel oxides
  - Excluded or minimum use

This means:

**When the occupational exposure limits are exceeded, at least one protective measure is ALWAYS required!**



# » Presales and Aftersales Service



## Planning and assembly

- » Optimal planning to meet high customer demands and legal requirements
- » Analysis of the task by KEMPER Project and Planning Department
- » Development of a tailor-made solution based on the extraction and filter systems
- » Assembly of extraction and filter system by KEMPER engineers
- » Commissioning of the system by qualified and experienced staff



## The KEMPER offer for servicing

- » Extraction and filter systems are safety-relevant devices
- » Regular maintenance and inspection of equipment is obligatory
- » KEMPER control systems help to comply with the maintenance schedule
- » Maintenance of extraction and filter systems, as well as all components, by the trained and experienced Kemper service team
- » Regular inspection of the system provides legal and operational safety



## Servicing contracts

- » KEMPER servicing contracts for the long-term safe, optimum operation of extraction and filter systems and related components
- » Inspection and maintenance of the system according to legal requirements
- » Functional and visual inspection including any adjustments required
- » Various servicing packages depending on clients' requests - from the reminder service right through to a full range of services including all wear and tear parts and filters

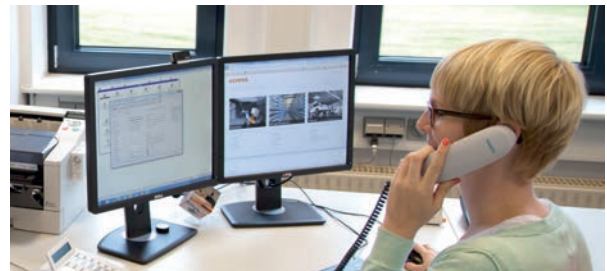
# » Contact

These are the ways you can order with us!

## Telephone

Our customer service is daily at your disposal.  
From Monday to Thursday from 7.00 to 18.00 and  
on Friday from 7.00 to 16.00.

+44 (0) 13 27 87 29 09    +49 (0) 25 64 68 0



## Fax

For purchase orders by fax you can use the order  
form, which you will find on the last page.

+44 (0) 13 27 87 21 81    +49 (0) 25 64 68 120



## E-Mail

Orders by email can be sent to the following  
address at any time:

[mail@kemper.co.uk](mailto:mail@kemper.co.uk)    [mail@kemper.eu](mailto:mail@kemper.eu)



## Internet

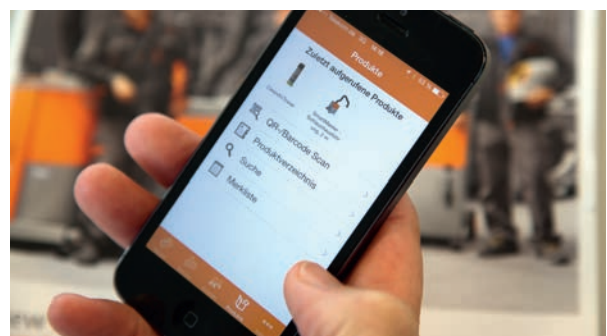
Our website, product information and current  
announcements from KEMPER are available 24/7

[www.kemper.eu](http://www.kemper.eu)



## KEMPER-App

Whether smartphone or tablet : all information about  
KEMPER is available „to go“ in App and play store as  
download.



Please use this fax form as master copy.

## Order Form

**KEMPER fax number: +44(0) 1327 872 181 or  
+49 (0) 2564 / 68 120**

### Customer

Customer no.: ..... Company: .....

Address: ..... Post code, Place: .....

Name: ..... Tel.: .....

Fax: ..... e-mail: .....

We order under acceptance of your conditions of sale, terms of delivery and terms of payment:

| Part no. | Quantity | Description | Price / Unit | Total |
|----------|----------|-------------|--------------|-------|
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |
|          |          |             |              |       |

### Additional enquiries:

- I have further questions and would appreciate if you could ring me back.
- I would like to make an appointment with one of your representatives.

\_\_\_\_\_  
Place, Date

\_\_\_\_\_  
Signature

# Conditions of Sale

## Interpretation

In these terms and conditions the following expressions will have the following meanings and cognate expressions will be construed accordingly:

|              |   |
|--------------|---|
| "Seller"     | <i>KEMPER (U.K.) Limited</i>  |
| "Buyer"      | the person(s) or entity who place an Order.   |
| "Goods"      | the items or articles the subject of the Order.   |
| "Conditions" | the terms and conditions set out here which govern the sale and purchase of the Goods.                                  |
| "Order"      | the order placed by the Buyer with the Seller for the supply of the Goods.  |
| "Contract"   | the contract of sale concluded by the placing of an Order which is accepted by the Seller in its confirmation of Order. |

## Scope of Contract

Neither the Buyer nor the Seller will be bound by any variation, waiver of or addition to the Conditions except as agreed by both parties in writing.

Any terms and conditions used by the Buyer in the course of its business do not apply to the Contract.

No statement or representation made at any time prior to the Contract will be a term of the Contract or deemed to be an inducement or collateral contract pursuant to which the Buyer entered into the Contract.

## Delivery

Delivery of the Goods will be made at the Seller's earliest convenience. Any time or date for delivery is an estimate only and may be cancelled or revised at the Seller's option. Time for delivery by the Seller is not of the essence of the Contract

Each delivery operates as a separate contract.

The Buyer will accept delivery of the Goods provided such delivery is made at the Buyer's place of business within usual business hours or at any place agreed between the Seller and Buyer.

The Seller will not be liable to the Buyer for any loss or damage suffered directly or indirectly by the Buyer from any delays in delivery however arising.

The Seller will have no liability to the Buyer in the event of non-delivery of the whole or any portion of the Goods caused directly or indirectly by Act of God, elements, war, act of Government, strikes or lockouts, fire, flood, breakdown of machinery, non-delivery or delay in delivery by the Seller's suppliers of the Goods or materials required for the Goods, failure of the Seller's contractors to execute or their delay in executing any work on the Goods or any other cause (whether or not the same as the foregoing) beyond the Seller's control.

If delivery is delayed due to any of the causes referred to in clause 3.5 by a period in excess of three months the Seller may cancel the undelivered portion of the Contract by written notice.

Delivery of the Goods will be ex-works; if requested by the Buyer, the Seller will arrange delivery and insurance of the Goods in transit at the Buyer's expense.

## Payment and Price

The price stated in the Seller's quotation does not include delivery to the Buyer's premises. Such price excludes any tax, licence fee, custom, import or export duty or charge.

The Seller's prices are valid for three months from the date of the Seller confirming the Order. After such period, the Seller may alter its prices and quotations for the Goods whenever it in its absolute discretion considers necessary so that the Contract price is that in force at delivery. The Seller will give the Buyer seven days written notice or such alteration. If the Buyer objects to the alteration, the Buyer will be treated as discharged from the Contract.

Payment of the price of the Goods will be made net in Pounds Sterling within 30 days of the date the Buyer receives the Seller's invoice; such invoice being deemed to have been received on the third day after posting. Payment must be made by cheque to the Seller at its offices at Venture Court, Debdale Road, Wellingborough or directly to its bank account number 15357228 at National Westminster Bank plc at 44 High Street, Daventry, Northants, NN11 4FZ, sort code 52-30-21. Payment must be made in full, without set-off or deductions. Time for payment is of the essence of the Contract.

The Seller will not be deemed to have received payment until the Buyer's cheque has been honoured on presentation for payment.

The Seller is entitled to interest on any unpaid invoices from the invoice due date until payment at the rate of 4 percentage points per annum above National Westminster Bank plc base rate prevailing from time to time.

In the event of late payment:

- 4.6.1 the Seller may treat the Contract as wrongfully repudiated by the Buyer without prejudice to the Seller's right to payment for any Goods delivered and to damages for the Buyer's breach of contract;
- 4.6.2 all the Seller's invoices will become due for immediate payment.

The Seller may treat the oldest invoices as paid first, unless the Seller indicates otherwise.

## Inspection

The Buyer will inspect the Goods immediately they are delivered and the signature of the Buyer or of any person acting on its behalf on the delivery note will be deemed to be an acknowledgement by the Buyer that the Goods are of satisfactory quality, undamaged and in accordance with the Contract and the Seller will not replace the Goods nor be under any liability to deliver any missing part, unless the Buyer:

- 5.1.1 states on the delivery note that the Goods or part of them are either damaged or missing; and
- 5.1.2 notifies the Seller in writing within five days of the delivery of the Goods of the extent to which the Goods are damaged and/or missing or in the case of latent or hidden defects which could not reasonably be revealed by the delivery inspection, such notification must be made within 6 months of the date risk in the Goods passed to the Buyer.

## Risk

The risk in the Goods passes to the Buyer upon despatch of the Goods by the Seller for delivery to the Buyer in accordance with these Conditions.

## Title

The Seller will retain title to and ownership to the Goods until the Buyer has paid in full the price of the Goods.

Furthermore, the title in the Goods will not pass to the Buyer unless and until the full price of any other delivered Goods the subject of any other business transaction between the Buyer and the Seller has been paid. Such price and the price of the Goods will in clause 7 together be called "the value" and will where the context so permits include in addition any costs of repossession incurred under clause 7.4.1.

Until the value has been received by the Seller the Buyer will hold the Goods as bailee on behalf of the Seller and the Buyer acknowledges that there is a fiduciary relationship in respect of the Goods between the Buyer and Seller. Accordingly:

- 7.3.1 the Buyer will store the Goods on its premises separately from its own goods or those of any other person in such a way that they can be readily identified as the Goods of the Seller;
- 7.3.2 until full payment is made the Buyer will take all necessary measures for the protection of the Goods including their insurance against all usual risks with an insurance company approved by the Seller for the full replacement value of the Goods. The Buyer will procure that the interest of the Seller is noted upon any such insurance policy and that a copy of the policy is supplied to the Seller on its creation;
- 7.3.3 the Buyer is authorised by the Seller to agree to sell on the Goods at a price which is no less than the purchase price of the Goods under the Contract subject to the express condition that the entire proceeds of sale are held in trust for the Seller and are not mingled with other monies or paid into any overdrawn bank account and are at all times identifiable as the Seller's money. The Buyer will keep records (to be produced to the Seller whenever required) of the name and address of any such sub-buyer and the date and contract price of each delivery and will if the Seller so requires in writing assign such claims as the Buyer has against such subbuyers as arise from this transaction.

If the Buyer (a) fails to make any payment to the Seller when due, or (b) being an individual, proposes to compound with its creditors, applies for an interim order under section 252 Insolvency Act 1986 or has a bankruptcy petition presented against it or being a company, enters into voluntary or compulsory liquidation, has a receiver, an administrator or administrative receiver appointed over all or any of its assets or takes or suffers similar action, or if the Seller has reasonable cause to believe that any of these events is likely to occur then the Seller will have the right, without prejudice to any other remedies:

- 7.4.1 to enter, without prior notice, any premises of the Buyer where Goods owned by the Seller may be and to repossess and dispose of any Goods owned by it so as to discharge any sums owed to it by the Buyer under this or any other contract;
- 7.4.2 to require the Buyer not to resell or part with possession of any Goods owned by the Seller until the Buyer has paid in full all sums due to the Seller under this or any other contract;
- 7.4.3 to withhold delivery of any undelivered Goods and stop any Goods in transit;
- 7.4.4 to vary by notice in writing with immediate effect the terms, if any, as to credit specified in the Contract between the Seller and Buyer in such manner as the Seller may, in its absolute discretion, determine

Each of the preceding clauses will be construed and take effect separately and in the event of one or more such clauses being held ineffective this will not affect the validity of the remaining clauses.

## Warranties

The Seller warrants that it has title to the Goods or will have such title at the time when property in the Goods is to pass to the Buyer under the Contract and warrants that in all other respects it is able to satisfy its obligations to the Buyer under Section 12 of the Sale of Goods Act 1979.

Except as expressly stated in these Conditions all warranties and conditions whether express or implied by statute usage trade custom or otherwise relating to the quality or nature of the Goods or their life or wear or fitness for any particular purpose or use under any specific conditions are expressly excluded.

Measurements, dimensions, weights, colours and other details contained in the Seller's catalogues, sale manuals, photographs, drawings, illustrations and price lists and the Seller's samples constitute only an approximate guide and do not form part of the Contract. No warranty is given that the Goods will correspond exactly with those specified.

## Liability

Any Goods alleged by the Buyer to be damaged or not of satisfactory quality will not form the subject of any claim for work done by the Buyer or for any loss damage or expense whatsoever arising directly or indirectly from such alleged defects. If the Goods are returned to the Seller in accordance with the Conditions and are accepted by the Seller as damaged or not of satisfactory quality they will either be replaced as originally ordered or at the sole discretion of the Seller an appropriate credit note will be issued to the Buyer provided that the Buyer has otherwise complied with the Conditions.

9.2.1 No claim under clause 9.1 will be considered by the Seller unless, in addition to the Buyer's compliance with clause 5 (Inspection), the Buyer makes the Goods available for collection by the Seller.

9.2.2 No Goods will be accepted for return without the prior agreement of the Seller and returned Goods must be properly and securely packed by the Buyer and accompanied by a detailed list giving the reasons for their return and the date and number of the Seller's invoice for the Goods.

Except in respect of personal injury or death, the limit of the Seller's liability under the Conditions will not exceed the price of undelivered Goods or Goods accepted back by the Seller under the terms of the Conditions and the Seller will under no circumstances be liable in contract or tort or otherwise for any indirect or consequential damage, loss or expense however caused whether to the Buyer or any other person or thing, whether arising directly or indirectly from the negligence of the Seller or anyone for whom the Seller is vicariously liable.











## General

The Seller will not be affected by any delay or failure in exercising or any partial exercising of its rights under the Contract unless it has signed an express written waiver or release.

The Buyer will not assign its rights under the Contract without the prior written consent of the Seller

Any notice given under the Conditions will be duly served on the Buyer if it is left at or sent by first class post to its address last known to the Seller or on the Seller if it is left at or sent by first class post to its address last known to the Buyer. It will be assumed that any notice sent by post will be delivered on the fifth working day after posting.

This Contract will be construed in accordance with the laws of England and the Seller and Buyer submit to the non-exclusive jurisdiction of the English courts.

|   |  |     |  |
|---|--|-----|--|
|    | <b>A</b>   |     |  |
|   | AirWatch .....   | 69  |  |
|   | autodark® 560i .....                                   | 116 |  |
|   | autodark® 560x .....                                   | 117 |  |
|   | autodark® 660i .....                                   | 119 |  |
|   | autodark® 660x .....                                   | 120 |  |
|   | autodark® 760 .....                                    | 121 |  |
|    | <b>C</b>   |     |  |
|   | Cartridge Filter, Stationary .....                     | 29  |  |
|   | Central Fan .....                                      | 81  |  |
|   | CleanAirTower .....                                    | 65  |  |
|   | Column for exhaust arm .....                           | 76  |  |
|    | <b>D</b>   |     |  |
|   | Displacement Ventilation .....                         | 67  |  |
|   | DustEvac Dust Removal System .....                     | 45  |  |
|   | Dusty .....  | 51  |  |
|   | <b>E</b>   |     |  |
|   | Exhaust Arm For Suction Rail .....                     | 78  |  |
|   | Exhaust Arms .....                                     | 73  |  |
|   | Exhaust Fan .....                                      | 82  |  |
|   | Exhaust Set .....                                      | 83  |  |
|  | <b>F</b>   |     |  |
|   | Fan .....  | 80  |  |
|   | Filter-Cell .....                                      | 27  |  |
|   | Filter-Cell XL .....                                   | 30  |  |
|   | Filter-Master XL .....                                 | 14  |  |
|   | Filter-Table .....                                     | 28  |  |
|  | <b>G</b>   |     |  |
|   | Grinding Table .....                                   | 94  |  |
|  | <b>H</b>   |     |  |
|   | Hand Cutting Table .....                               | 98  |  |
|   | Hand Cutting Table With Fixture .....                  | 96  |  |
|  | <b>K</b>   |     |  |
|   | KemJet .....   | 63  |  |
|   | KEMPER autoflow® with KEMPER autodark® 760 Air .....   | 127 |  |
|   | KemTab Advance .....                                   | 104 |  |
|   | KemTab Basic .....                                     | 103 |  |
|   | KemTab HiEnd .....                                     | 105 |  |
|   | KemTab Vibro .....                                     | 106 |  |
|  | <b>M</b>   |     |  |
|   | MaxiFil .....  | 11  |  |
|   | MaxiFil Clean .....                                    | 15  |  |
|   | MaxiFil stationary .....                               | 26  |  |
|   | MiniFil .....  | 50  |  |
|  | <b>P</b>   |     |  |
|   | Pivoting Arm For Welding Curtains .....                | 148 |  |
|   | Pivoting Arm Including Column .....                    | 148 |  |
|   | Pivoting Self Retracting Cable Reel For Curtains ..... | 132 |  |
|   | PlasmaFil Compact/WeldFil Compact .....                | 42  |  |
|   | ProfiMaster, one exhaust arm .....                     | 9   |  |
|   | ProfiMaster, two exhaust arms .....                    | 10  |  |
|   | Push-Pull-System .....                                 | 66  |  |
|   | <b>S</b>   |     |  |
|   | SmartMaster .....                                      | 8   |  |
|   | SolderFil .....  | 52  |  |
|   | Sparktrap .....  | 44  |  |
|   | Swivel Arm Wall Mounted, Lockable And Telescopic ...   | 149 |  |
|   | System 8000 .....                                      | 40  |  |
|   | System 9000 .....                                      | 41  |  |
|   | System 9000 High Vacuum .....                          | 59  |  |
|   | <b>T</b>   |     |  |
|   | Telescopic Exhaust Arm .....                           | 77  |  |
|   | Training table .....                                   | 98  |  |
|   | <b>V</b>   |     |  |
|   | VacuFil 500 .....                                      | 53  |  |
|   | VarioHood .....  | 108 |  |
|   | <b>W</b>   |     |  |
|   | Welding Protection Curtain .....                       | 131 |  |
|   | Welding protection strips .....                        | 136 |  |
|   | Welding protective blankets .....                      | 159 |  |
|   | Welding protectors .....                               | 150 |  |
|   | Welding strip curtains .....                           | 134 |  |
|   | Welding Table .....                                    | 95  |  |
|   | Welding Table With Fan .....                           | 95  |  |
|   | Welding Training Table .....                           | 97  |  |

# » internationally represented optimal consulting worldwide

## **Deutschland (HQ)**

### **KEMPER GmbH**

Von-Siemens-Str. 20  
D-48691 Vreden  
Tel. +49(0)25 64 68-0  
Fax +49(0)25 64 68-120  
mail@kemper.eu  
www.kemper.eu

## **United Kingdom**

### **KEMPER (U.K.) Ltd.**

Venture Court  
2 Debdale Road  
Wellingborough Northamptonshire  
NN8 5AA  
Tel. +44(0)8081 7827 40  
Fax +44(0)8081 7827 42  
mail@kemper.co.uk  
www.kemper.co.uk

## **France**

### **KEMPER sàrl**

7 Avenue de l'Europe  
F-67300 Schiltigheim  
Si vous appelez de France  
Tél. +33(0)800 91 18 32  
Fax +33(0)800 91 90 89  
De Belgique ou de l'étranger  
Tél. +49(0)25 64 68-135  
Fax +49(0)25 64 68-40 135  
mail@kemper.fr  
www.kemper.fr

## **Česká Republika**

### **KEMPER spol. s r.o.**

Pyšelská 393  
CZ-257 21 Poříčí nad Sázavou  
Tel. +420 317 798-000  
Fax +420 317 798-888  
mail@kemper.cz  
www.kemper.cz

## **United States**

### **KEMPER America, Inc.**

1110 Ridgeland Pkwy  
Suite 110  
Alpharetta, GA 30004  
Tel. +1 770 416 7070  
Tel. US 800 756 5367  
Fax +1 770 828 0643  
info@kemperamerica.com  
www.kemperamerica.com

## **Nederland**

### **KEMPER B.V.**

Grevelingenweg 10  
NL-3249 AE Herkingen  
Verkoopkantoor  
Tel. +49(0)25 64 68-137  
Fax +49(0)25 64 68-120  
mail@kemper.eu  
www.kemper.eu

## **España**

### **KEMPER IBÉRICA, S.L.**

Av. Riera Principal, 8  
E-08328 Alella/Barcelona  
Tel. +34 902 109-454  
Fax +34 902 109-456  
mail@kemper.es  
www.kemper.es

## **India**

### **KEMPER India**

55, Ground Floor, MP Mall  
MP Block, Pitam Pura  
New Delhi -110034  
Tel. +91.11.42651472  
mail@kemper-india.com  
www.kemper-india.com