

The best engineered water filtering solution always costs less.

PRODUCT CATALOG

- OUR FILTERS SELF-CLEAN AUTOMATICALLY, SAVING TIME AND MONEY
- FLOW IS NOT INTERRUPTED, MEANS NO WORK STOPPAGE
- EXTERNAL POWER IS NOT REQUIRED
- VIRTUALLY MAINTENANCE FREE
- ENGINEERED TO BE EASY TO INSTALL AND TROUBLE FREE TO RUN
- CONFIGURABLE TO A WIDE RANGE OF INDUSTRIAL AND IRRIGATION APPLICATIONS
- CUSTOM SOLUTIONS ARE OUR SPECIALTY
- INTERNATIONAL ENGINEERING AND SUPPORT NETWORK
- SUCCESSFUL INSTALLATIONS WORLDWIDE
- 20+ YEARS OF SOLVING WATER FILTRATION PROBLEMS



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TEKLEEN FILTER OPERATION

Tekleen® Automatic Filters are the next generation in reliable water filtration.

We've engineered our filters to be fully automatic, self-cleaning and operate on water pressure alone. This eliminates the need to remove the screens for manual cleaning. And the automatic cleaning backwash cycle will not interrupt the main flow.

How Our Filters Work

NORMAL OPERATION

1. INLET

Dirty water enters the inlet of the filter and passes through to the coarse screen.

2. COARSE SCREEN

The Coarse Screen protects the fine screen from being damaged by any large particulates.

3. FINE SCREEN

Water moves through the coarse screen and down the center of the filter body through the fine screen filtering out suspended solids to a predetermined size.

4. OUTLET

Clean water passes through the fine screen and out of the outlet of the filter while the dirt particles are trapped on the inside of the fine screen. This causes a pressure drop at the outlet, which initiates the self-cleaning cycle.

BACKWASH CYCLE

5. FLUSH VALVE

A signal is sent to an electronic controller, which opens the flush valve for the backwash cycle.

6. SUCTION NOZZLE

The dirt is aggressively vacuumed off of the screen by the suction nozzle.

7. DIRT COLLECTOR

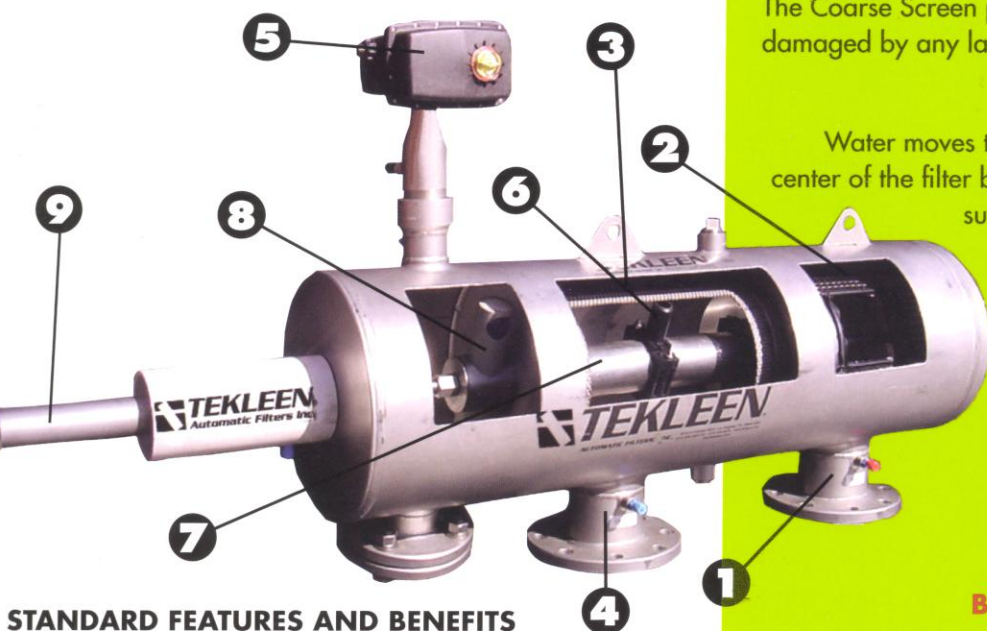
Transfers the debris from the fine screen through the suction nozzles to the Hydraulic Motor.

8. HYDRAULIC MOTOR

Debris is expelled through the Hydraulic Motor causing the dirt collector to rotate axially and move linearly. This allows the dirt collector to scan 100% of the screen. The dirty water exits through the flush valve.

9. PISTON

Moves the dirt collector back to its original position at the end of the cleaning cycle.



STANDARD FEATURES AND BENEFITS

- Automatically self-cleans using only water pressure
- High performance screens
- No flow interruption during backwash
- Minimum pressure – 40psi
- Maximum pressure – 150psi
- Design minimizes downtime
- Stainless steel filters at carbon steel prices

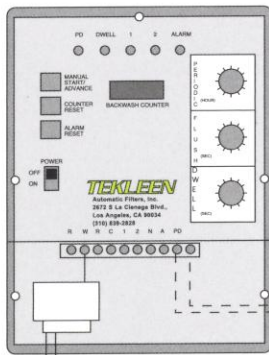
OPTIONAL FEATURES

- Unlimited flow capacities
- ASME Certified
- 10 micron filtration
- High pressure up to 600 psi
- Low pressure – 15 psi
- High temperature up to 250 °F

ELETRONIC CONTROLLER

Tekleen® state-of-the-art electronic backwash controllers are complete with a solenoid, differential pressure sensor, backwash counter, and emergency alarm output. 110/220 volts or battery operated (9V or 12V).

MODEL # GB6/7

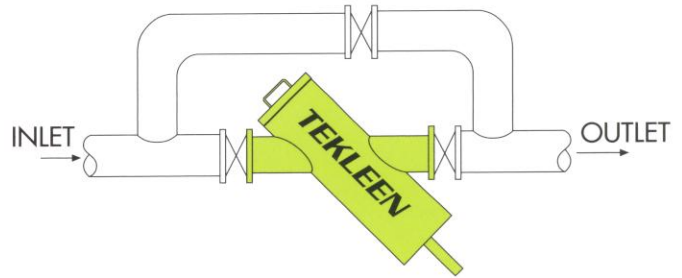


DIFFERENTIAL PRESSURE GAUGE

POWER SUPPLY
AC 110/220V

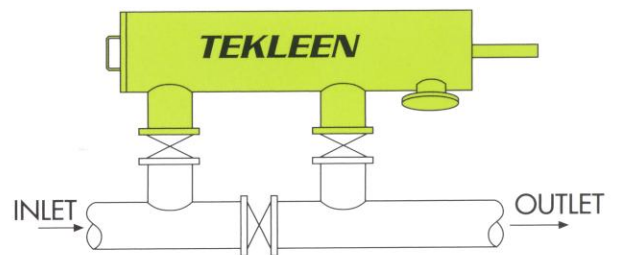
IN-LINE CONFIGURATION

Configuration is ideal for situations where space is limited.



ON-LINE CONFIGURATION

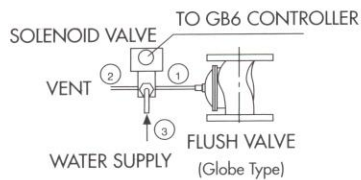
Configuration allows you to access the filter – should it ever become necessary -- with no interruption of the plant's operation.



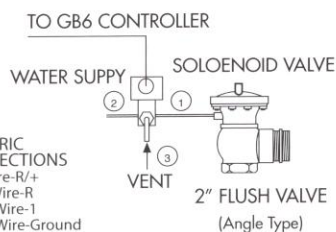
FLUSH VALVE AND SOLENOID

Tekleen® Automatic Filters Inc, carries several different types of flush valves to meet most specifications.

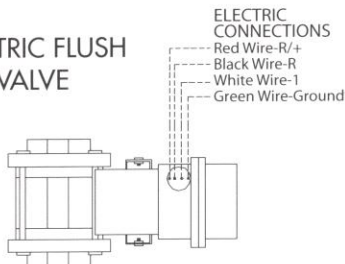
SINGLE CHAMBER VALVE



DUEL CHAMBER VALVE

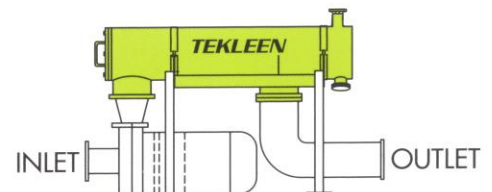


ELECTRIC FLUSH VALVE



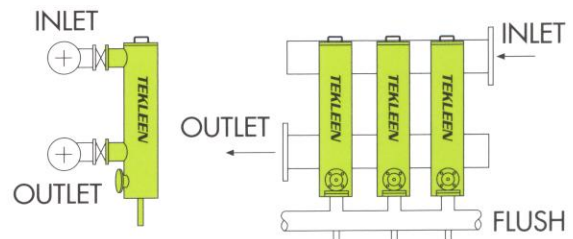
SKID CONFIGURATION

Configuration is a complete unit all in one. It comes with the filter, pump and controller mounted on the skid.



PARALLEL CONFIGURATION

Configuration is ideal for very fine filtration – down to 10 microns. By using more than one filter the flow capacity will increase significantly.



FILTER MODELS

ABW SERIES

ABW series filters are custom manufactured to meet a wide range of industrial applications including ASME certified, sea water, high temperature, high pressure, etc. The filters are complete with Stainless Steel screens and can be set up in parallel for unlimited flow capacities. The filter bodies are available in stainless steel and carbon steel with baked on epoxy coating. Clean filter pressure drop with 100 μ screen is less than 1psi at the rated flow of the filter.

Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm	Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
ABW2-LP	2	0.5	130	ABW12-P	12	11	2,630
ABW2-L	2	0.5	130	ABW12	12	11	2,630
ABW2-SP	2	1.4	200	ABW12-LP	12	12.5	4,000
ABW2-S	2	1.4	200	ABW14-P	14	12.5	4,000
ABW3	3	0.5	150	ABW14	14	12.5	4,000
ABW3-SP	3	1.4	200	ABW14-LP	14	16	6,000
ABW3-S	3	1.4	200	ABW16-P	16	12.5	5,000
ABW3-LP	3	2.5	300	ABW16-L	16	16	6,000
ABW4-P	4	1.4	300	ABW16-LP	16	16	6,000
ABW4	4	1.4	300	ABW16-SP	16	24	7,000
ABW4-LPE	4	2.5	400	ABW18-SP	18	24	8,000
ABW4-LP	4	5	500	ABW20-SP	20	24	10,000
ABW4-L	4	5	500	ABW24-SP	24	24	10,000
ABW4-XLP	4	8	800	ABW30-TSP	30	48	15,000
ABW4-SP	4	7	1,000	ABW36-TSP	36	48	20,000
ABW6-P	6	2.5	600				
ABW6-XLP	6	8	800				
ABW6-LP	6	5	800				
ABW6-L	6	5	800				
ABW6-TXLP	6	16	1,500				
ABW6-SP	6	7	1,750				
ABW8-P	8	5	1,320				
ABW8	8	5	1,320				
ABW8-LP	8	8	1,500				
ABW8-SP	8	7	1,750				
ABW8-TLP	8	16	2,500				
ABW10-P	10	7	1,750				
ABW10-LP	10	11	2,630				



LPF SERIES

Tekleen® is proud to introduce a new line of fully automatic self-cleaning water filters with working pressure as low as 1.5 psi. up to 150 psi. The Low Pressure Filter (LPF) Series. This series is available in a wide range of industrial configurations and is designed and manufactured in accordance to ANSI and ASME requirements. ASME U stamp is an option. Sizes range from 3" – 36", flow rates from 10 – 20,000 gpm., screen mesh from 25 μ – 3,000 μ .

The filters are available in stainless steel, carbon steel with powder epoxy coating. Clean filter pressure drop with 100 μ screen is less than 1 psi. at the rated flow of the filter.



Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
LPF3-SP	3	1.4	200
LPF3-LP	3	2.5	300
LPF4-P	4	1.4	300
LPF4-LPE	4	2.5	400
LPF4-LP	4	5	500
LPF6-P	6	2.5	600
LPF6-XLP	6	8	800
LPF6-LP	6	5	800
LPF6-SP	6	7	1,750
LPF8-P	8	5	1,320
LPF8-LP	8	8	1,500
LPF8-SP	8	7	1,750
LPF10-P	10	7	1,750
LPF10-LP	10	11	2,630
LPF12-P	12	11	2,630
LPF12-LP	12	12.5	4,000
LPF14-P	14	12.5	4,000
LPF14-LP	14	16	6,000
LPF16-LP	16	16	6,000
LPF16-SP	16	24	7,000
LPF18-SP	18	24	8,000
LPF20-SP	20	24	10,000
LPF36-TSP	36	48	20,000

FILTER MODELS

MTF SERIES

Low-flow, fully automatic, self-cleaning water filtration systems. These filters can handle flow rates from 1-500 gpm with screens as small as 10 μ . The MTF filters use very little water for rinsing so that the main flow is not interrupted. MTF Series are rated to 150 psi and 210°F. The filters are made with a 316L stainless steel body and are designed to satisfy a wide variety of industrial and irrigation application requirements.

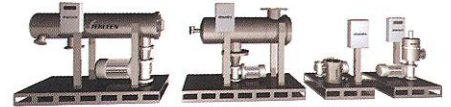
Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
MTF1	1	0.6	100
MTF1.5	1.5	0.6	100
MTF2	2	0.6	100
MTF2-L	2	1.5	200
MTF3	3	1.5	300
MTF3-L	3	3	300
MTF4	4	1.5	300
MTF4-L	4	3	400
MTF6	6	3	500



SKID SERIES

Filter Skids are the compact and immediate solution for many filtration needs. They are filter units with flow rates from 10-1320 gpm. and a filtration range from 3,000 μ -10 μ . They feature SST centrifugal pumps from 3 to 50 h/p, with any voltage. Standard is 100% SST construction at a very competitive price.

Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
MTF2	2	0.6	100
ABW2-LP	2	0.5	130
MTF3	3	1.5	200
OBF3-I	3	1.5	250
OBF4-P	4	1.5	400
ABW8-P	8	5	1,320



BELL SERIES

Tekleen's® Bell series are low-flow, fully automatic, self-cleaning water filtration systems. These filters can handle flow rates from 1-500 gpm with screens as small as 35 μ . The Bell filters use very little water for rinsing without interrupting the main flow and are rated to 150 psi and 150 °F. The filters are made from carbon steel epoxy coated body and are designed to meet a wide variety of industrial and irrigation applications.

Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
BELL1.5	1.5	0.5	110
BELL2	2	0.5	110
BELL2-L	2	0.8	200
BELL3	3	0.5	150
BELL3-L	3	0.8	200
BELL4	4	0.8	350
BELL4-L	4	1.7	400
BELL6	6	1.7	500



CSF SERIES

Tekleen® offers the Coarse Screen Filter series of automatic self-cleaning water filters for applications that don't require fine filtration. Filtration is 1/4" - 1/2".

Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
CSF3	3	2	300
CSF4	4	2	500
CSF6	6	2.5	800
CSF8	8	3.9	1,320
CSF10	10	5.6	1,750
CSF12	12	8.4	2,630
CSF14	14	9.5	4,000
CSF16	16	12.4	6,000



CSB SERIES

Tekleen® offers a Coarse Screen Brush Filter that is ideal for incoming plant water from potentially contaminated open water sources. Filtration from 200 μ - 4,000 μ .

Model #	Flange Size Inches	Screen Area sq. ft.	Max Flow gpm
CSB8	8	5	1,300
CSB10	10	8	2,000
CSB12	12	10	2,500
CSB14	14	12	4,000
CSB16-L	16	16	6,000
CSB14	14	12	4,000
CSB16-L	16	16	6,000

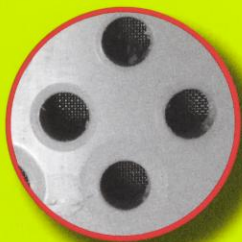


WHY USE TEKLEEN FILTERS?

TEKLEEN OFFERS SCREENS FOR EVERY FILTRATION SITUATION

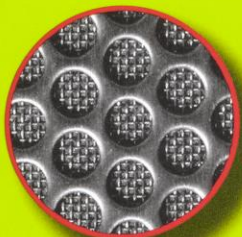
SST MESH ON PLASTIC SUPPORT

- Woven mesh from SST, titanium and Hastelloy
- 35 μ – 3,000 μ heat welded on plastic ribs (PVC, CPVC or Polypropylene)
- Practical & economical solution for a wide range of water filtration applications
- Excellent pressure rating
- High bursting pressure
- Chemical resistance



SST MESH HIGH PERFORMANCE

- Woven mesh from SST, titanium and Hastelloy
- 2 μ -3,000 μ diffusion bonded (sintered) on support mesh (drainage member) and on a perforated SST basket
- Super-durable material means the hole size will not change over time
- The support mesh increases the screen filtration area by 40%
- High open screen area ratio for greater efficiency
- Very good pressure rating and bursting pressure rating
- Chemical resistance
- Very high temperature rating to 250 °F



VEE WIRE, WEDGE WIRE

- Vee shape wires from SST and titanium
- 25 μ – 3,000 μ spirally wound & welded on support rods
- Rigid - very strong construction will not flex or give to backwash force
- Only two point particle contact
- Very high consistency
- Ideal for catching fibrous material
- The slots will not shift or change over time
- Good working pressure and high bursting pressure
- High temperature rating to 300 °F



SAVE TIME.

SAVE ENERGY.

SAVE MONEY.

Cool, clear water is the life force in manufacturing operations. It must be counted on to run pure and steady – cooling and cleaning equipment, materials and assemblies. But it can be destructive if it becomes contaminated with dirt and other pollutants.

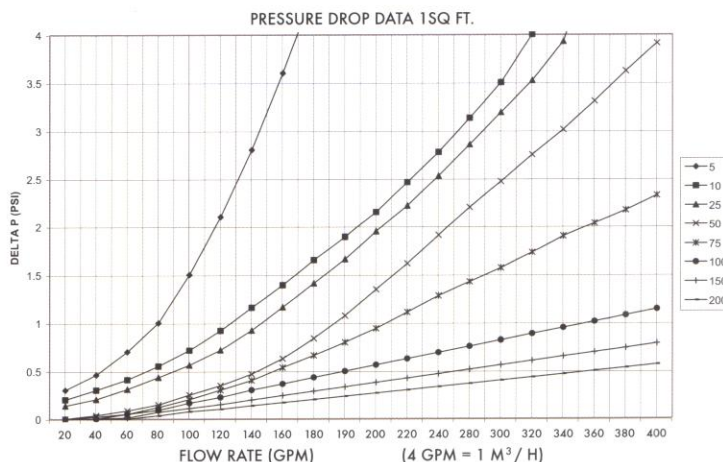
Efficient water filtration is the most effective and least expensive way to prevent equipment fouling and scaling problems caused by dirty water.



**Cooling water pipes
after less than
one year's operation
with Tekleen filtration.**



**Cooling water pipes
after less than
one year's operation
without filtration.**



WHAT FILTER CAN WE BUILD FOR YOU?

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Application Data Sheet

CUSTOMER

Name _____
Company _____ Title _____
Phone _____ Fax _____ Email _____
Address _____
City _____ State/Province _____ Zip _____ Country _____

TECHNICAL DATA

Application _____ Pressure (psi / bar) _____
Line Size (inch / mm) _____ Water Temp. (°F/C) _____
Flow (gpm / m3/h) _____ Water Source _____
Pump Data (h/p, rpm) _____ Water Sample Sent / Date _____

QUESTIONS/COMMENTS

FLOW DIAGRAM

The best engineered water filtering solution always costs less.



The **Tekleen®** line of automatic self-cleaning water filters was created by Automatic Filters, Inc., located in West Los Angeles. Our management team has built a worldwide reputation for problem-solving in the water filtration industry. We have developed unparalleled depth and breadth of skill and experience.

Engineering, sales, marketing, and customer service departments work closely and share the same commitment: to provide the best solution for any application. Over the past 20+ years, we have built a network of distributors and area representatives to give you localized service.

Tekleen's filters successfully solve a wide range of problems. Below is a small sampling of the types of industries and companies which have chosen and installed Tekleen's filters:

MUNICIPALITIES

- Bergen County Utilities, NJ
- Watsonville, CA
- Ronherth Park, CA
- Orlando Airport, FL
- Sasachawan, Canada

CHEMICAL

- Du Pont
- Colgate
- Procter & Gamble
- Dow, Argentina

FOOD

- Smuckers
- Hines
- Turner Foods
- Dean Foods
- M & M/ Mars

POWER PLANTS

- American Electric Power
- Southern California Edison
- Potomac River Gen. Station
- LCRA
- Dept. of Water & Power, CA

STEEL

- SDI
- Nucor
- Jinan, China
- US Steel
- Sicartsa, Mexico

PLASTICS

- Rehrig Pacific
- Plastek, PA
- Dart Container
- N.A. Pipe, GA
- Husky, Canada

PAPER

- Georgia Pacific
- Blandin
- Boise
- International Paper
- Ainswort, MN

MANUFACTURING

- Wellman Fiber
- McMillan Electric
- Wilson Tools
- Caterpillar
- Stanley

AUTOMOTIVE

- Ford Motor
- Honda
- Renault, Brazil
- Volkswagen, Brazil
- Fiat, Argentina

OIL REFINING

- Conoco, NJ
- Chevron, CA
- Occidental, TX
- Shell, CA
- Mobile, TX

HVAC

- Univ. of Chicago, IL
- Rosewood Hospital, TX
- John Wayne Airport, CA
- ATT, NJ
- Chase Bank, NY

BEVERAGE

- Coca Cola
- Pepsi Cola
- Ocean Spray
- Rivera Bottling, Peru

For further information and to contact a local Tekleen® distributor in your area, please contact us today.

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