

FILTERSAFE AB SERIES

Automatic Brush Filters | Technical Specifications

1 | GENERAL DATA

Strainer Type	AB-100	AB-300	AB-500
* Maximum Flow Rate (m³/h)	1,100	3,150	7,100
Inlet-Outlet Diameter (Inches)	6"-16"	10"-24"	16"-36"
Filtration Degree (microns)	200 up to 6,000	200 up to 6,000	200 up to 6,000
Min/Max Working pressure (bars)	1/10	1/10	1/10
Min/Max Working Temperature (C°)	5/50	5/50	5/50
Electrical Supply	3Ph. 3X380...480VAC 50/60Hz	3Ph. 3X380...480VAC 50/60Hz	3Ph. 3X380...480VAC 50/60Hz
Weight (empty) (Kg.)	900	1,700	3,500
Weight (full) (Kg.)	1,200	2,700	6,000
* Maximum Flow Rate Depends on Filtration Degree and Water Quality ** Special Connections available upon request			

2 | FLUSHING DATA

Minimum Flow for Flushing (m³/h)	70	100	150
Reject Water Volume per flush cycle (liters)	300	420	625
Flushing Cycle Time (sec.)	15-30	15-30	15-30
Flushing Valve (Inches)	2"/3"	3"/4"	4"/6"
Flushing Criteria	Dif. P./ Time	Dif. P./ Time	Dif. P./ Time
* Flush Valve Diameter depends on working pressure and water source			

3 | SCREEN DATA

Filter area (cm²/in²)	11,000 / 1,705	27,000 / 4,185	49,000 / 7,595
Screen Types	Perf./Wedge W.	Perf./Wedge W.	Perf./Wedge W.

4 | CONTROL & ELECTRICITY

Rated Operation Voltage	3Ph. 3X380...480VAC 50/60Hz	3Ph. 3X380...480VAC 50/60Hz	3Ph. 3X380...480VAC 50/60Hz
Electric Motor (HP)	0.75	2	2
Power Consumption (kW)	0.55	1.5	1.5
Control Voltage (VDC)	24	24	24

5 | CONSTRUCTION MATERIALS

Filter Housing & Lid	C. Steel	C. Steel	C. Steel
Cleaning Mechanism	AISI 316/316L	AISI 316/316L	AISI 316/316L
Exhaust Valve	C. Steel	C. Steel	C. Steel
Seals	NBR	NBR	NBR
Control	Coated Sheet Steel	Coated Sheet Steel	Coated Sheet Steel
Coating	2K Epoxy + Polyurethane	2K Epoxy + Polyurethane	2K Epoxy + Polyurethane

*FS can offer additional construction materials, coatings and designs - including ASME - upon request.

REGIONAL OFFICE, MANUFACTURING & ASSEMBLY

ISRAEL

A 4,000 sq/m premises comprising our regional sales offices, R&D facilities and manufacturing/assembly plant. The facility is capable of handling very large volumes of production in line with market growth.

Contact Information:

Address: Ha'ella Street, P.O.B 23, Tefen Ind. Zone 2495900, Israel
Phone: +972 4 987 3620 ext. 105/106, Email: sales@filtersafe.net

BRAZIL, Rio de Janeiro

Branch Office

Contact Information:

Cell: +55 21 98899 6890
Direct: +55 21 3798 2307
Email: fsbrazil@filtersafe.net

CHINA, Beijing

Branch Office

Contact Information:

Address: Room 811, Building 1, Xinyuanguoji Plaza, No 1, Chengshousi Road, Fengtai Dist., 100078 Beijing, PRC China
Email: fschina@filtersafe.net

HONG KONG

Our Hong Kong manufacturing/assembly plant supplies our entire line of products to the region and is supported by a world-class steel fabrication facility.

Contact Information:

Address: DD362 Lot 30 Tsing Chau Tsai Shipyard, Lantau Island N T, Hong Kong
Phone: +852 2454 4300, Email: fshongkong@filtersafe.net

GERMANY, Hamburg

Branch Office

Strategic Sales & Technical Office serving all European markets.

Contact Information:

Phone: +49 151 5111 9622
Email: fsgermany@filtersafe.net

SINGAPORE

Branch Office

Strategic Sales & Technical Office

Contact Information:

Phone: +65 9848 9856
Email: fssingapore@filtersafe.net



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- Filtersafe Manufacturing Facilities
- Filtersafe Distributor's



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FILTERSAFE AB SERIES

AUTOMATIC BRUSH FILTERS



AB-100

AB-300

AB-500

200 - 7,100 m³/h
Max. Flow Rate

200 - 6,000 micron
Filtration Degree

100%
Screen Cleaning

1 bar (14.7psi)
Min. Operating Pressure

Up to 49,000 cm²
screen in a single strainer

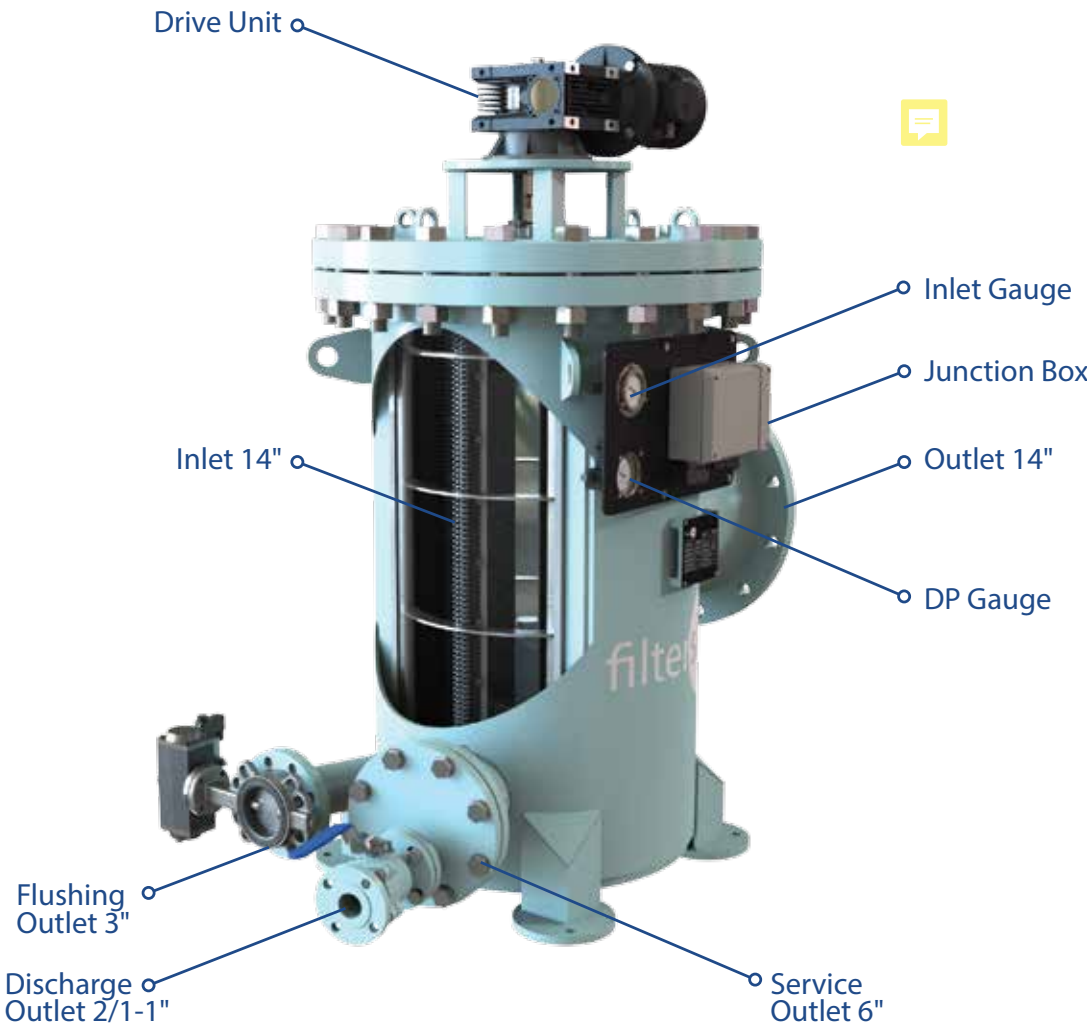
AB SERIES AUTOMATIC BRUSH FILTERS

Typical Installations:

- Sea Water Applications
- Heavy Industrial Applications
- Cooling Water
- Water & Wastewater Treatment
- Agriculture
- Aquaculture

Features & Benefits:

- Screens ranging from 200 - 6,000 micron Filtration Degree
- 200 - 7,100 m3/h Max. Flow Rate
- 1 bar (14.7psi) Min. Operating Pressure
- Up to 49,000 cm2 screen in a single strainer
- Available skid mounted (see image)

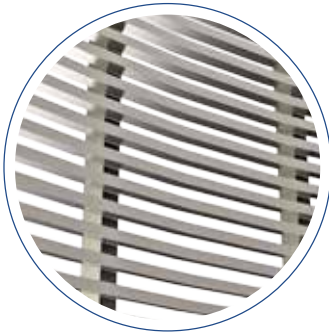


OUR TECHNOLOGY

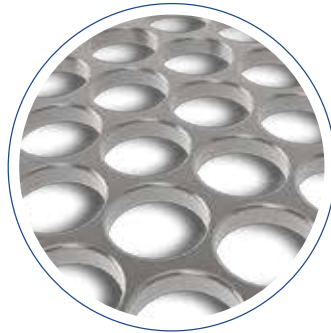
The Filtersafe Automatic Brush filters are available with wedge-wire or perforated screens. Both options use a highly durable & heavy-duty stainless steel brush for cleaning high loads of suspended solids in heavy duty industrial applications.



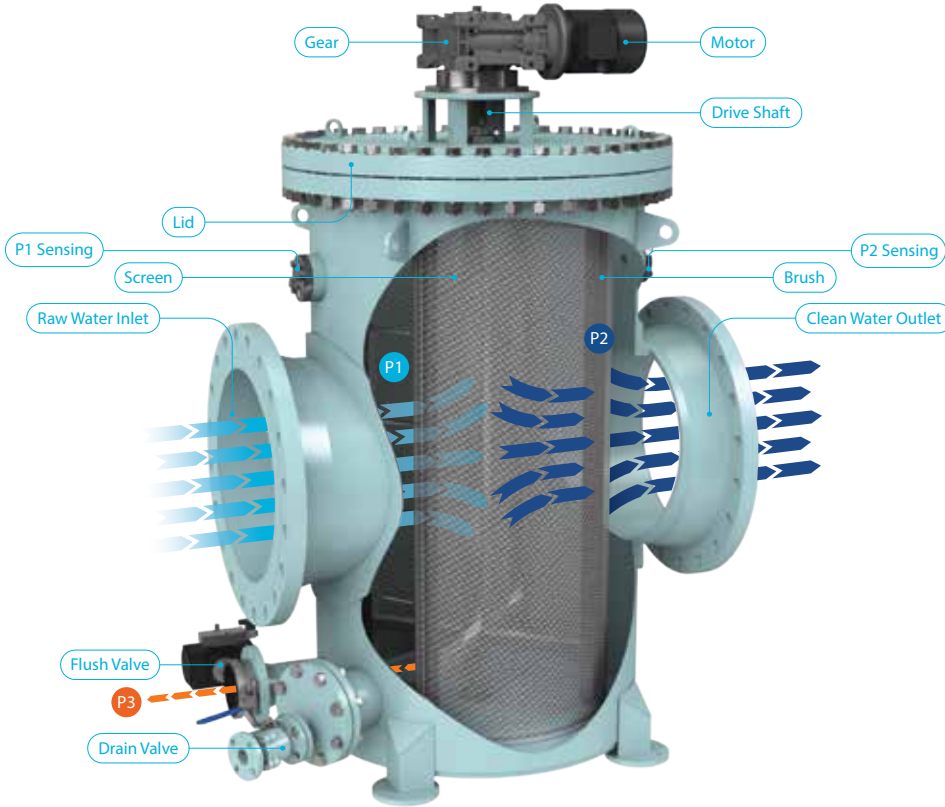
Brush Filter Cleaning



Wedgewire Screen



Perforated Screen



Water Flow

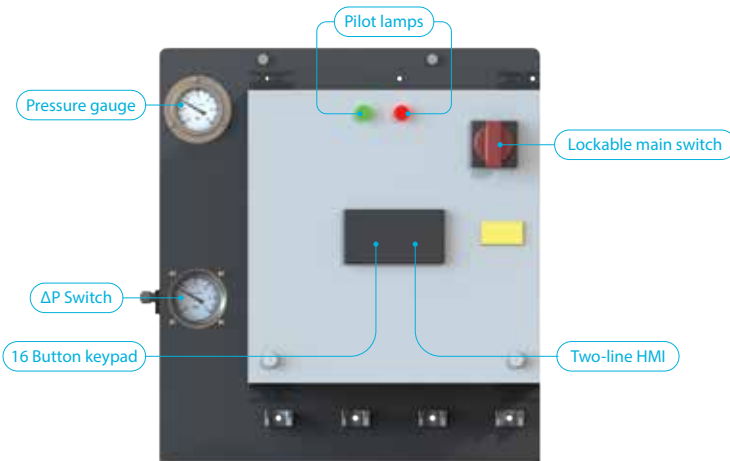
1. The wedge-wire or perforated screen traps solids and dirt.
2. As sediments and particles are trapped, pressure differential between the inlet and the outlet initiates the cleaning process.
3. Our brushes assembly rotates and removes all unwanted particles to the flushing valve.
4. The filter returns to its original state

P1	Inlet pressure
P2	Outlet pressure
P3	Discharge pressure

P1 - P2 =	ΔP across the screen
P1 - P3 =	Pressure difference at the discharge point shall be at least 1 (bar)

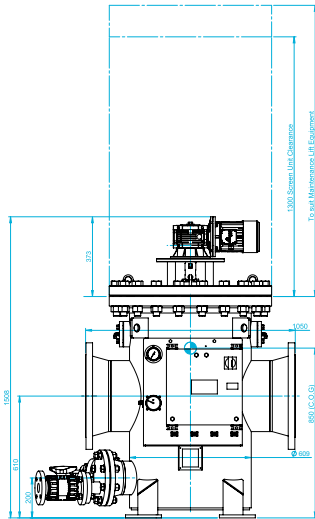
Main features for basic control board

1. The power and control board, made with a high quality of design and materials.
 2. PLC based controller, with easy operation method.
 3. Useful hard-wire interface for customer monitoring and operation.
 4. Optional, Modbus TCP (Ethernet) communication interface for detailed system monitoring.
 5. Optional, Two analog input for system pressure operation and monitoring.
 6. Optional, Flushing pump operation, (powering or command)
- Advanced control boards are available upon request.



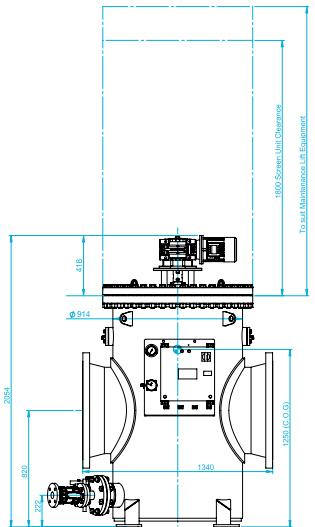
AB SERIES AUTOMATIC BRUSH FILTERS

AB-100



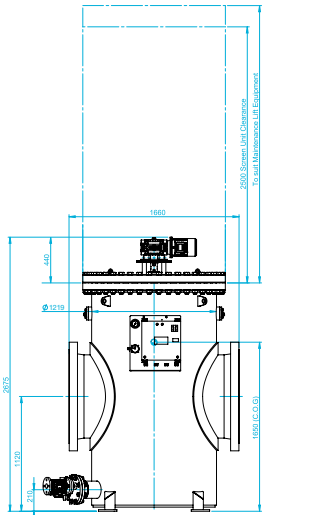
Dimensions Drawings, including Service Space (mm)

AB-300



Dimensions Drawings, including Service Space (mm)

AB-500



Dimensions Drawings, including Service Space (mm)