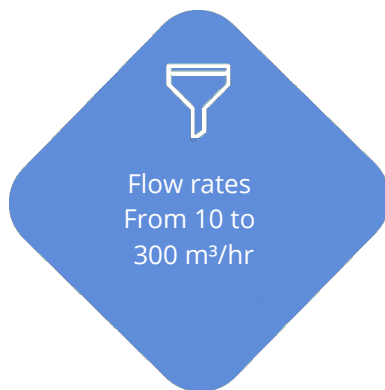


FILTROMAX™ Disc

Disc Filtration

FILTROMAX™ Disc filtration units are stand-alone, all polymeric automatic disc filtration systems. The filters are based on an innovative disc technology capable of removing contaminants such as suspended solids, fibres, grit, sand and algae. Its technology provides micron-precise depth filtration and long-term operation with minimal maintenance .



General Industry 

Municipal WW 

FEATURES & BENEFITS

- Combines surface filtration and depth filtration to ensure high contaminant removal rates;
- Compact, modular & highly scalable design;
- Systems covering high flows (up to 300 m³/h) and choices of filtration grades from 20 to 200 μm;
- Automatic backwashing of individual filters based on pressure differential or time;
- Backwash configurations: with water & air (AAF) or water only (IS);
- Reduced backwash water consumption & constant production flow rates. Air assisted backwashing for 2" AAF only;
- Corrosion resistant polypropylene construction;
- Standard connecting flanges exist in PN and ANSI;
- No consumables; low running costs, minimal

OPTIONS

- Filtromax Controller with associated solenoid valves & pressure switch
 - 3x Alternative material configurations: classic (non corrosive), aggressive water and seawater.
 - Inlet & Outlet isolation valves
- Accessory
- Air Compressor for valves automation and backwash air (AAF only)

APPLICATIONS

- Side & full stream filtration (Cooling tower & Heat exchangers)
- Pre-filtration to softeners, ion exchangers or membrane systems (UF or RO)
- Prevention of corrosion and blockages within pipework, valves, distributors and other equipment
- Re-use & tertiary municipal wastewater
- Feed water for irrigation systems
- Rainwater harvesting post-filtration

ASSOCIATED SERVICES

Local after-sales service and support teams offer preventative and corrective maintenance programs to ensure the long-term, efficient operation of installed plant.





System Operating Parameters

Model	Rate	Unit	3x2"	5x2"	8x2"	5x3"	8x3"	4x4"	7x4"
Max Feed Flowrate ⁽¹⁾	20 µm	m ³ /h	N/A	20	40	50	80	80	150
	40 µm		N/A	20	50	50	90	90	180
	55 µm		20	40	70	70	150	120	260
	100 µm		20	40	70	90	180	180	300
	200 µm		20	50	90	120	180	220	>300
Backwash Flowrate		m ³ /h	11	11	11	22	22	55	55
Maximum Operating Pressure ⁽²⁾		bar	8						
Maximum Operating Temperature ⁽²⁾		°C	40						

(1) Maximum recommended flow rate are worked out for a good quality water. Please ask SOLYS for more information.

(2) These values can be increased to either 10 bars or 60° C. Please ask SOLYS for more information.

Dimensions & Pipe Connections

Model - 2"	Unit	2x2"	3x2"	4x2"	5x2"	6x2"	7x2"	8x2"
Total Installed Length ⁽³⁾	m	1.0 0.8	1.3 1.0	1.5 1.3	1.8 1.6	2.2 1.8	2.3 2.1	2.7 2.3
Total Installed Width ⁽³⁾	m	0.9 0.7	0.9 0.7	0.9 0.7	0.9 0.7	0.9 0.7	0.9 0.7	0.9 0.7
Total Installed Height ⁽³⁾	m	1.2 0.8	1.2 0.8	1.2 0.8	1.2 0.8	1.2 0.8	1.2 0.8	1.2 0.8
Feed	in	4	4	4	4	4	4	4
Treated water	in	4	4	4	4	4	4	4
Drain	in	2	2	2	2	2	2	2

(3) AAF | IS

Model - 3"	Unit	5x3"	6x3"	7x3"	8x3"
Total Installed Length	m	1.50	1.80	2.10	2.80
Total Installed Width	m	0.90	0.90	0.90	0.90
Total Installed Height	m	1.30	1.30	1.30	1.40
Feed	in	6	6	6	8
Treated water	in	6	6	6	8
Drain	in	2	2	2	2

Model - 4"	Unit	4x4"	5x4"	6x4"	7x4"	8x4"	10x4"	12x4"
Total Installed Length	m	2.20	2.70	3.30	3.70	2.30	2.80	3.10
Total Installed Width	m	1.00	1.00	1.00	1.00	1.60	1.70	1.70
Total Installed Height	m	1.50	1.50	1.50	1.50	1.60	1.70	1.70
Feed	in	8	8	10	10	10	12	12
Treated water	in	8	8	10	10	10	12	12
Drain	in	2	2	2	2	2	2	2

Filtration Grade & Treated Water Quality

Nominal Filtration Grade	Minimum Inlet Pressure (bar)		Maximum Inlet TSS mg/l
	IS	AAF	
20 µm	5.0	1.0	30
40 µm	5.0	1.0	30
55 µm	5.0	1.0	50
100 µm	3.5	1.0	50
200 µm	3.0	1.0	50

Air & Power Requirements

Parameter	Unit	Value
Backwash Air ⁽⁴⁾	L/min	0.270 - 0.311
Compressed Air Pressure ⁽⁵⁾	barg	6 to 8
Voltage	V	230 110
Frequency	Hz	50 60

(4) AAF models only

(5) Air pressure must be above water feed pressure