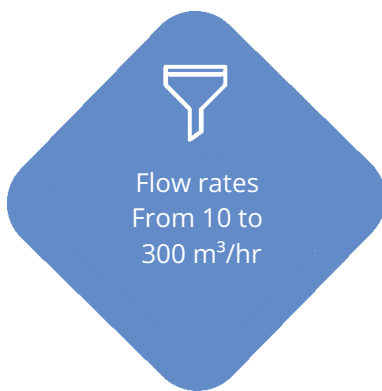


FILTROMAX™ Disc

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 .



✓ 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 maintenance (no wear);

💧 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

+ 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)

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 | Unit | 3x2" | 5x2" | 8x2" | 5x3" | 8x3" | 4x4" | 7x4" |
|--|-------------------|-----------|-------|-------|-------|-------|-------|-------|
| Max Feed Flowrate ⁽¹⁾ | 20 µm | 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 | 11.00 | 11.00 | 11.00 | 22.00 | 22.00 | 55.00 | 55.00 |
| Maximum Operating Pressure ⁽²⁾ | bar | 8 | | | | | | |
| Maximum Operating Temperature ⁽²⁾ | °C | 40 | | | | | | |
| Backwash Air | L/min | 270 - 311 | | | | | | |

⁽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.

System Dimensions

| Model - 2" ⁽³⁾ | Unit | 2x2" | 3x2" | 4x2" | 5x2" | 6x2" | 7x2" | 8x2" |
|---------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Total Installed Length | 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 | 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 | 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 |
| Empty Weight | kg | 70 75 | 75 110 | 110 175 | 135 195 | 195 250 | 250 285 | 285 310 |

⁽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 |
| Empty Weight | kg | 205 | 235 | 260 | 290 |

| 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 |
| Empty Weight | kg | 350 | 525 | 600 | 797 | 850 | 950 | 1052 |





Pipes Connections

| Model - 2" | Unit | 2x2" | 3x2" | 4x2" | 5x2" | 6x2" | 7x2" | 8x2" |
|---------------|------|------|------|------|------|------|------|------|
| Feed | DN | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Treated water | DN | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Drain | DN | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

| Model - 3" | Unit | 5x3" | 6x3" | 7x3" | 8x3" |
|---------------|------|------|------|------|------|
| Feed | DN | 150 | 150 | 150 | 200 |
| Treated water | DN | 150 | 150 | 150 | 200 |
| Drain | DN | 50 | 50 | 50 | 50 |

| Model - 4" | Unit | 4x4" | 5x4" | 6x4" | 7x4" | 8x4" | 10x4" | 12x4" |
|---------------|------|------|------|------|------|------|-------|-------|
| Feed | DN | 200 | 200 | 250 | 250 | 250 | 300 | 300 |
| Treated water | DN | 200 | 200 | 250 | 250 | 250 | 300 | 300 |
| Drain | DN | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

Feed water Requirements

| Parameter | Unit | Value |
|-----------------------|-------------------|--------------------------------------|
| Nominal Feed Flowrate | m ³ /h | 10 - 15 |
| Maximum Inlet TSS | mg/l | 20 for < 55µm 100 for 100 & 200µm |

Environmental Conditions

| Parameter | Unit | Value |
|-----------------------------|------|-------|
| Minimum ambient temperature | °C | 5 |
| Maximum ambient temperature | °C | 55 |
| Maximum humidity | % | 75 |

Materials of Construction

| | |
|------------------|--------------------------------------|
| Pressure Vessels | Reinforced Polypropylene & Polyamide |
| Pipework | Polypropylene |

Air & Power Requirements

| Parameter | Unit | Value |
|--|------|--------|
| Compressed Air Pressure ⁽⁴⁾ | barg | 6 to 8 |
| Voltage | V | 230 |
| Frequency | Hz | 50 |

⁽⁴⁾ Air pressure must be above water feed pressure