

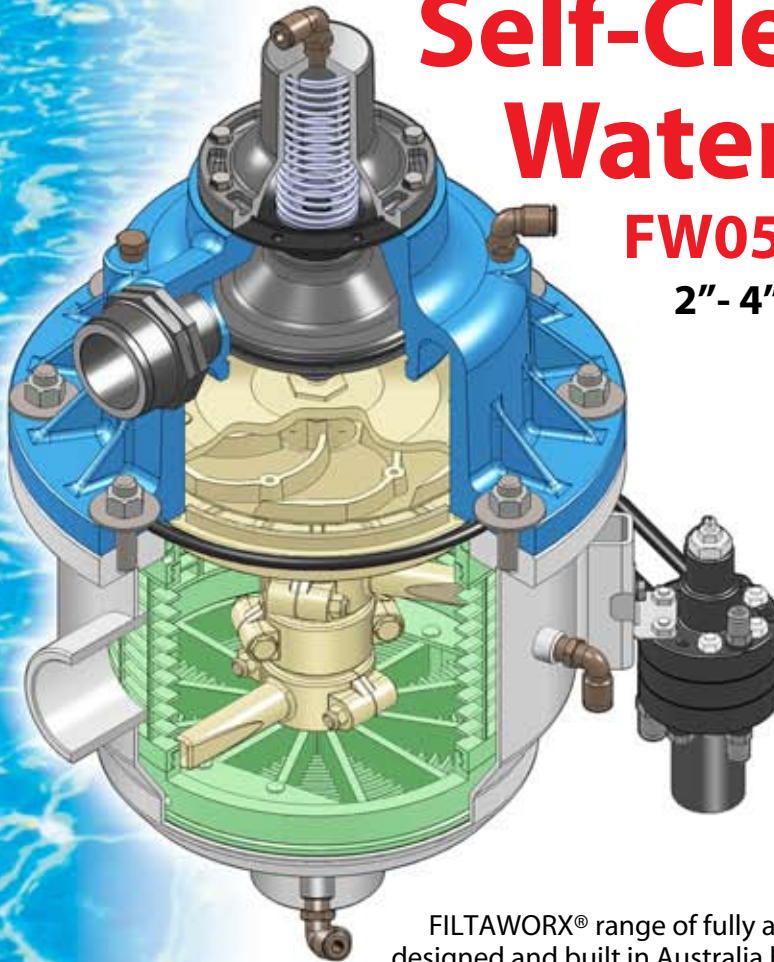


FILTAWORX[®]

Automatic Self-Cleaning Water Filters

FW050 - FW100

2" - 4"



FILTAWORX[®] range of fully automatic self cleaning filters have been designed and built in Australia by an experienced team of engineers using the latest 3D CAD software. FILTAWORX[®] filters are one of the most technically innovative self-cleaning filters available, combining proven high performance, reliability and economy in a compact robust design. Features include:

- ▲ Stainless steel filter body as standard.
- ▲ All parts are made of corrosion resistant materials.
- ▲ Fully automatic back flush operation.
- ▲ Available with hydraulic or electric controls.
- ▲ Large filtration area.
- ▲ Wide range of fine screen sizes, 50 to 800 microns (250 - 20 mesh).
- ▲ Standard sizes from 2" – 14".
- ▲ Pressure rating of 150 psi as standard.
- ▲ Simple and quick installation.
- ▲ Full support and after sales service.
- ▲ Designed, built and tested in Australia.

Advantages of FILTAWORX® Automatic Filters

Stainless Steel body for corrosion resistance in most environments.

Cleaning Mechanism:

The key feature to FILTAWORX® performance and reliability is the use of the escaping backflush water to rotate the internal cleaning mechanism inside the filter vessel. No external motor, mechanism or power is required, reducing the number of moving/wearing parts to a minimum.

Automatic Operation of the self cleaning backflush cycle is achieved when a pre-set pressure drop (5 - 7 psi) across the filter is reached. 100% cleaning as every spot on the fine screen surface is cleaned with a high velocity, aggressive backflush flow.

No External Power is required (when using the hydraulic controlled filter). All functions are powered by the line pressure only. All controls required come complete with the filter.

Uninterrupted Flow during the backflush cycle.

More Screen Area than any other comparable filter available.

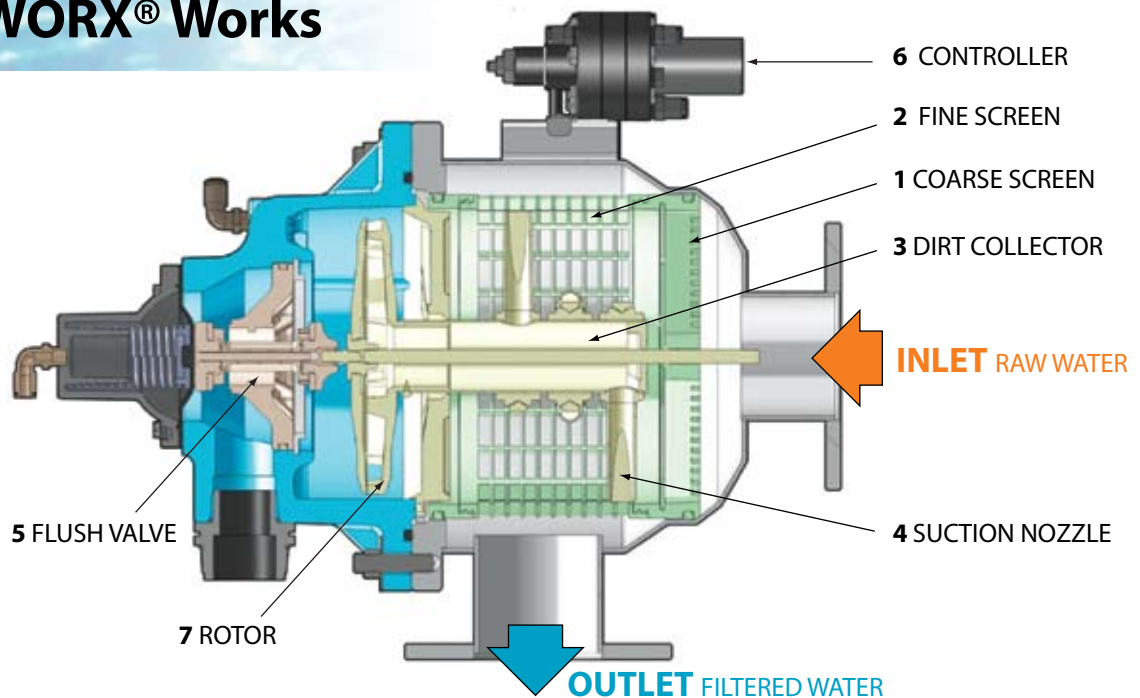
Positive Filtration using a precision 316 stainless steel mesh screen.

Wide Range of Filtration screen sizes available from 50 to 800 micron (250 - 20 mesh) enabling correct selection for each application. Screens can easily be replaced on-site to alter the degree of filtration if required.

Compact and Simple Installation can be mounted in any position or orientation, with minimal space requirements.

High Reliability due to minimal moving parts, simple design and robust construction make FILTAWORX® filters virtually maintenance free.

How FILTAWORX® Works



During normal filtering mode the raw water enters the Inlet of the filter, passes through the Coarse Screen (1), (this removes large debris that may obstruct the lower mechanism). Water then travels to the inside and through the Fine Screen (2) to the Outlet.

The solids in the water are trapped on the Fine Screen (2), eventually causing a pressure drop (DP) across the filter. At a pressure drop of 5 - 7 psi, the Controller (6) activates the cleaning cycle by opening the Flush Valve (5) to drain (atmosphere).

The interconnection of the Suction Nozzles (4) via the Dirt Collector (3) to the Drain causes a back flushing or 'vacuum clean' effect on the Fine Screen (2) with a high

velocity suction jet of water from the clean outlet side of the screen, removing the dirt on the screen as it passes through.

The water escaping via the Rotor (7) causes the Dirt Collector and Suction Nozzle assembly (3 & 4) to rotate. The Flushing Valve (5) allows this assembly down the length of the Fine Screen (2) in a spiralling motion, cleaning the entire screen surface area in approximately 5 seconds. The Flushing Valve (5) closes, and returns the mechanism back to its original position, ready for the next cycle. Cleaning also occurs on the return stroke.

Typical Application Areas

Irrigation

For the protection of all types of irrigation systems including: drip, micro jet, sprinkler and golf course irrigation systems, from all types of sources including treated effluent.

Cooling Towers and Process Water

Removal of algae, sludge, pipe scale, process impurities and atmospheric contamination, thereby maximising heat transfer efficiency, reducing maintenance, energy and chemical treatment costs of up to 30-50%. Significant reductions in sludge build-up in basins that sustains and shields legionella bacteria, ensuring a healthier & safer environment.

Surface and Ground Water

For protection of plant and equipment from contamination found in sea, rivers, dams, bores, and other water sources.

Equipment Protection

For pump gland seals, bearings, compressors, valves, etc.

Nozzle Protection

Eliminates blocked nozzles, keeping them clean and open thereby reducing maintenance.

Membrane & UV Protection

Removing problem sized solids that reduce the effectiveness of membranes and UV.

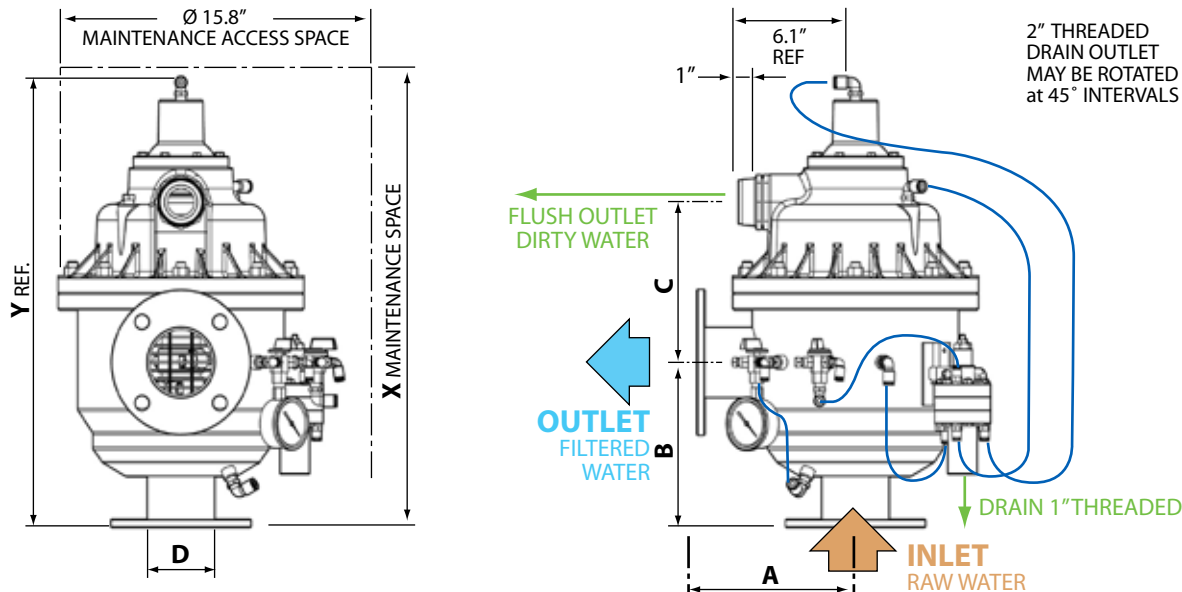
Effluent and Water Re-Use

Allows the re-use/recycling of effluent and other poor quality water within water treatment plants, industrial process systems, pulp and paper mills, mines, irrigation etc.

Town Water Supply

Removes algae, organisms, sand and silt from surface water streams, dams, reservoirs and bores, reducing chemical treatment and maintenance costs.

Technical Specifications



Dimensional Details

Model No	Nom Size D	Inlet & Outlet Connectors	Nominal Flow Rate GPM	Filter Area Ins ²	Dimensions Inches					Weight Lbs	
					A	B	C	X	Y	Empty	Full
FW050	2"	2" Sockets	110	189	7.2	7.8	8.0	28.3	22.0	48.5	92.6
FW050 - F	2"	2" Flanged	110	189	8.3	8.3	8.0	28.3	22.6	50.7	94.8
FW080	3"	3" Sockets	220	189	7.6	8.4	8.0	28.3	22.6	48.5	92.6
FW080 - F	3"	3" Flanged	220	189	8.3	8.3	8.0	28.3	22.6	55.1	99.2
FW080 EX	3"	3" Flanged	220	307	8.3	12.4	8.5	35.4	27.2	63.9	123.4
FW100	4"	4" Flanged	350	307	9.25	12.4	8.5	35.4	27.2	66.1	125.7

Max Working Pressure: 150 psi
 Min. Line Pressure : 30 psi
 Approx Flush Time: 5 - 7 sec, Vol 8 Gal
 Max. Working Temp: 150° F

Standard Materials of Construction:

304 Grade St/St Body & other parts,
 316 St/St Mesh Fine Screens, Brass,
 Glass reinforced Nylon,
 NBR & EPDM Seals
 316 St/St Body available on request

Screen sizes available

Micron	50	80	100	120	150	200	400	800
Mesh	250	200	150	120	100	80	40	20

Selecting the Right Filter

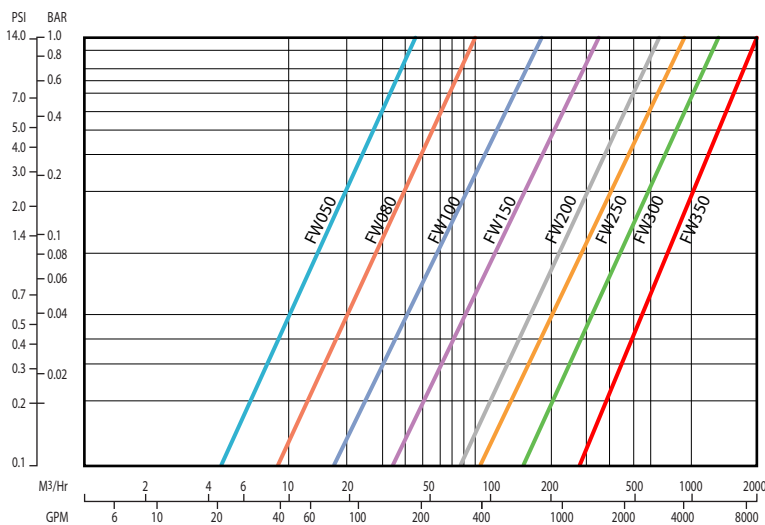
Selecting the right FILTAWORX® filter for your particular application is crucial in achieving the best result. We recommend it be done in consultation with your FILTAWORX® dealer or Triangle Waterquip, who have extensive experience and know-how to assist you.

The following information will help you and us make the correct selection.

1. The application and equipment you are protecting.
2. Maximum and minimum flow rate that the filter will need to handle.
3. System operating pressure, and pump details/curve if available.
4. Level of filtration/screen size required.
5. Dirt loading (Total Suspended Solids - TSS) of the water, if known.
6. Type of solids that are present, i.e. sand, algae, paper fibre, etc.
7. Filter control logic other than standard that may be required.
8. Water temperature and any chemical/corrosiveness content if known.



PRESSURE LOSSES FOR VARIOUS FLOW CAPACITIES



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