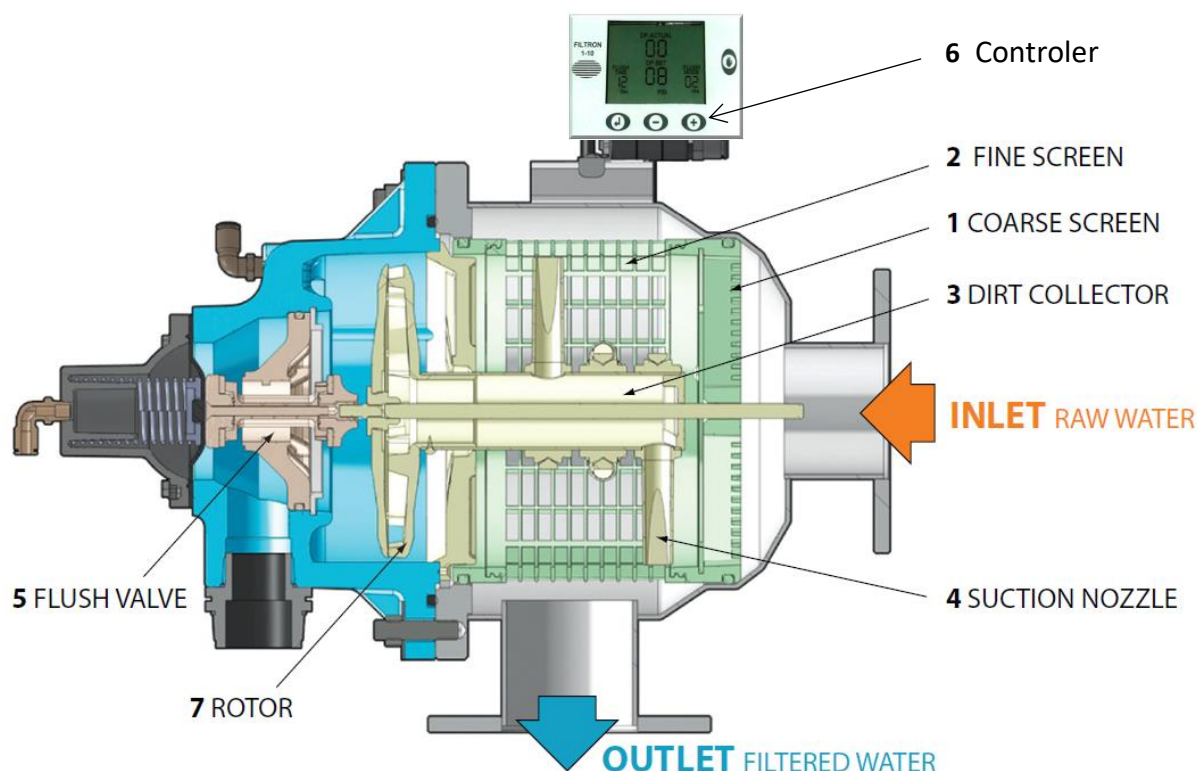


Technical Data RX Filter

(Low Flow Filter)



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 40 - 50 kPa, 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 to travel along the length of the Fine Screen (2) in a spiraling motion, cleaning the entire screen surface area in approximately 5 seconds.

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.

Technical Data RX Filter

(Low Flow Filter)

Cleaning Mechanism: The key feature to RX® 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 (40 – 50 kPa) across the filter is reached. 100% cleaning as every spot on the fine screen surface is cleaned with a high velocity, aggressive backflush flow.

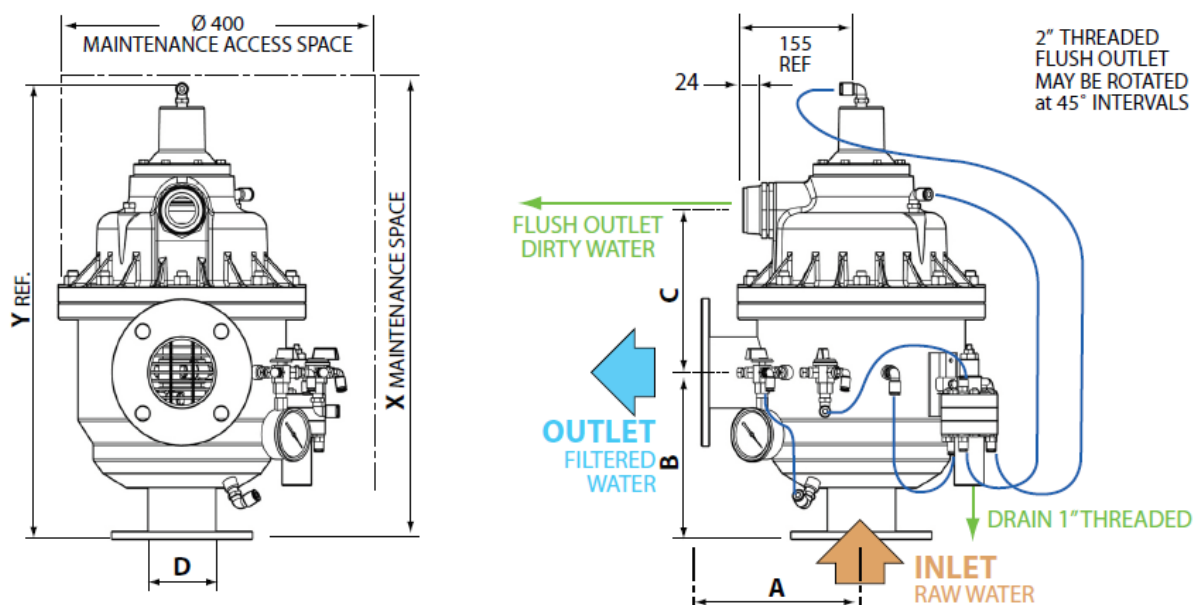
Delivered with electronic control 220V AC for DP * or time flush, Alarm and 24V AC output.

All functions are powered by the line pressure only.

Uninterrupted Flow during the backflush cycle.

More Screen Area than any other comparable filter available.

* DP = Difference Pressure



Dimensional Details

Model No	Nominal Size D		Inlet & Outlet Connectors	Nominal Flow at 2m Head Loss		Filter Area cm ²	Dimensions mm					Weight Kg	
	inch	mm		l/sec	m ³ /hr		A	B	C	X	Y	Empty	Full
50	2	50	2" Sockets	7	25	1220	184	198	204	720	560	22	42
50-F	2	50	2" Flanged	7	25	1220	210	210	204	720	575	23	43
80	3	80	3" Sockets	14	50	1220	194	213	204	720	575	22	42
80-F	3	80	3" Flanged	14	50	1220	210	210	204	720	575	25	45
80-EX	3	80	3" Flanged	14	50	1980	210	315	215	900	680	29	55
100-F	4	100	4" Flanged	22	80	1980	235	315	215	900	690	30	57

Screen sizes available

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

Technical Data RX Filter

(Low Flow Filter)

Simple design and robust construction:

- **Stainless Steel body** for corrosion resistance in most environments.
- A **duplex or SS904** version for seawater applications is **optional**.
- Positive Filtration using a precision 316 stainless steel mesh screen.
- Wide Range of Filtration screen sizes available **from 50 to 800 micron**.
- Screens can easily be replaced on-site to alter the degree of filtration if required.
- **Minimum Line pressure 2 Bar** during flush cycle 5-7 sec, Volume 30 Litres.
- Options to handle low pressure/flow can be installed in line with some extra equipment.
- Compact and Simple Installation can be mounted in any position or orientation.
- High Reliability due to minimal moving parts.
- All controls required come complete with the filter.
- The filter is virtually maintenance free.
- Minimal space requirements.



Max Working Pressure: **10 bar**.
 Min. Line Pressure required during
 Flush Cycle: **2 bar**.
 Approx Flush Time: **5 - 7 sec, Vol 30 L**.
 Max. Working Temp: **65°C**.

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