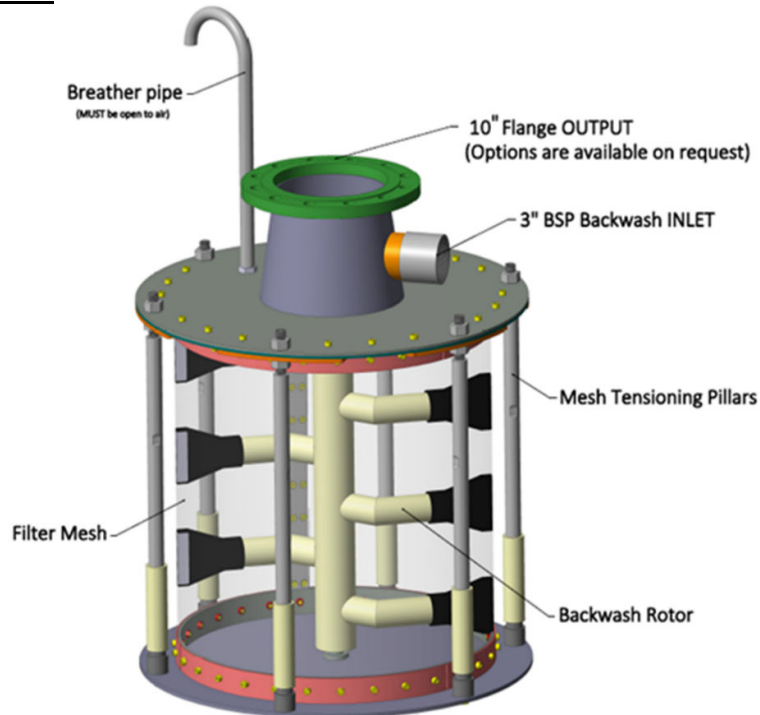


## Rotorflush RF800 LW Self-cleaning Filters

### General Specifications

#### General Arrangements



RF800-600LW shown above

#### Key features

- 316 Stainless steel filter mesh
- Filters from 1 – 6 mm
- Reliable and easy to install and use
- Works with most centrifugal and progressive cavity pumps
- Continuous backwash whenever water is being pumped
- 217 – 977 cubic metres per hour flow rates
- Capital, installation and maintenance costs reduced
- All 316 stainless steel construction
- No need for additional backwash filtration
- Can comply with Regulations for the protection of Eels and Elvers

## **Description – RF800LW Self-cleaning Intake Strainers**

The R800LW Self-cleaning Intake Strainers are stainless steel water strainers for use on the suction side of pumps.

All Rotorflush filters and strainers use the same patented technology, providing an efficient self-cleaning backwash to keep their filter mesh clear. These filters are for use in a water source and can be used in very dirty water, reducing the need for settlement tanks or expensive inline filter systems.

The filters are entirely mechanical and have no power; the cleaning mechanism at the heart of each self-cleaning filter is driven by water usually from the pump to which they are connected. Their filter mesh is continuously backwashed whenever water is being pumped, keeping the filter mesh free from debris and blockage.

There are eight models of RF800LW self-cleaning intake strainer offering a broad range of capacities.

The low intake velocity of these filters ensures that, when fitted with 2mm woven stainless steel mesh, they comply with current regulations for Eel protection.

## **RF800LW Self-cleaning Filter - Model Designation**

The model number designation of the filters has meaning.

The first set of numbers (e.g RF800) indicates the diameter of the filter area in millimetres. The second set of numbers (e.g. -300LW or -700LW) the height of the filter area in millimetres.

As each cleaning jet inside the filters is 100mm high, this number indicates the number of cleaning jets per filter (e.g. -700LW has seven cleaning jets). This means that the filter mesh area can be calculated from the filter model number.

## Self-cleaning Filter Construction

Filter Component	Construction
2mm aperture filter mesh	316 stainless steel or phosphor bronze
Filter uprights	304 or 316 stainless steel
Filter top and bottom plate	304 or 316 stainless steel
Top and bottom plate bolts & fastenings	304 or 316 (A2 or A4) stainless steel
Tensioning nuts, M20 x 8, 15mm thick	Phosphor bronze PB 102
Cleaning Rotor	304 or 316 Stainless steel
Cleaning Jet Restrictors	ABS
Rotor bearings	Acetal
Top and Bottom Rotor bearings	304 or 316 Stainless steel
Rubber jets	Natural Rubber
Rubber jet clips	304 or 316 Stainless steel
Lifting Eyes	304 or 316 Stainless steel
Top flange	304 or 316 stainless steel, standard is DN 200 PN 16, other sizes may be fitted
Backwash connection	316 stainless steel, 3" BSP
Tensioning assemblies	Hi-tensile steel, Delta Tone 9000® inorganic, non - electrolytically applied micro layer zinc - Lamella flake coating

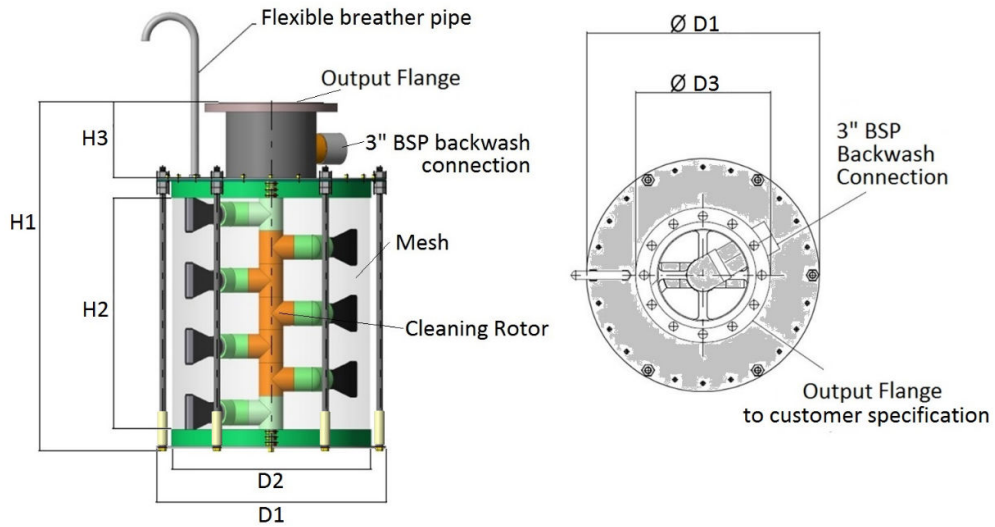
## Mesh Area, Capacity and Weight\*

Model	Filter screen Area cm <sup>2</sup>	Maximum Flow Rate m <sup>3</sup> /hr (net of backwash)	<u>Eel Regulations</u> Flow rate (net of backwash) m <sup>3</sup> /hr @ 0.1 m sec**	Backwash Flow Rate m <sup>3</sup> /hr	Backwash Pressure	Approx Weight Kgs
RF800-200LW	5,027	217	108	9	0.4 bar	190
RF800-300LW	7,540	325	162	13.5	0.4 bar	200
RF800-400LW	10,053	434	217	18	0.4 bar	210
RF800-500LW	12,566	542	271	22.5	0.4 bar	220
RF800-600LW	15,080	651	325	27	0.4 bar	230
RF800-700LW	17,592	760	380	31.5	0.4 bar	240
RF800-800LW	20,106	868	434	36	0.4 bar	250
RF800-900LW	22,619	977	488	40.5	0.4 bar	260

\*Dimensions and weights based on filters fitted with a 10" DN250 outlet flange

\*\*Approach velocity for EPA 316(b) and Regulations for the protection of European Eels

### Dimensions and Characteristics



Model	H1 Total Height mm	H2 Mesh Height mm	D1 Total Diameter mm	D2 Mesh Diameter mm	D3 Flange Diameter mm
RF800-200LW	575	200	950	800	405
RF800-300LW	675	300	950	800	405
RF800-400LW	775	400	950	800	405
RF800-500LW	875	500	950	800	405
RF800-600LW	975	600	950	800	405
RF800-700LW	1075	700	950	800	405
RF800-800LW	1175	800	950	800	405
RF800-900LW	1275	900	950	800	405

### Rotorflush Self-Cleaning Filter Set up

