RF100 Duplex

The RF100 Duplex self cleaning inlet filter is a twin headed filter with a capacity of up to 60 litres / minute and is designed to protect dry mounted pumps and other equipment.

It has the same efficient self-cleaning action as the RF100 filter designed to keep the filter mesh clear.

In ponds the gentle yet effective action of this filter protects newts and tadpoles and other aquatic life while providing an uninterrupted filtered supply of water. In more industrial settings debris and suspended solids can be filtered out of water– filter sizes are 60, 115 or 250 microns.

Key Features

- Protects pumps, analytical equipment & fountain nozzles from blockage
- Self-cleaning so maintenance is minimal
- Low space requirement
- Compact lightweight and robust construction
- Reliable and economical
- Fine filtration to 60 microns
- Protects to pond life
Description

The RF100 Duplex doubles the capacity of the smallest of Rotorflush's award winning filters. It gives a maximum usable flow (depending on conditions) of 60 litres per minute. The RF100 Duplex inlet filter offers the same effective protection against blockage and blinding as all our self-cleaning filters. Ideal as a pond filter and for protecting water features, for domestic use and for light industrial applications.

Ideal for:
- Small irrigation systems
- Protecting equipment from weed and debris
- Filtration of samples to online analysers
- Protecting newts and tadpoles as a pond pump filter
- Rainwater harvesting systems
- Industrial Process Filtration
- Ponds, fountains and water features
- Anywhere a flow of filtered fluid is required

Specification

<table>
<thead>
<tr>
<th>Water supply to cleaning rotor</th>
<th>Tapped from pump outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum output (m³/hour)</td>
<td>3.6</td>
</tr>
<tr>
<td>Standard screen mesh aperture (mm)</td>
<td>60, 115, 250 micron nylon mesh in polypropylene cage</td>
</tr>
<tr>
<td>Dimensions diameter x width x height (mm) (excl suctions / return couplings)</td>
<td>125 x 234 x 220</td>
</tr>
<tr>
<td>Weight (Kg)</td>
<td>0.4</td>
</tr>
</tbody>
</table>

Construction

<table>
<thead>
<tr>
<th>Filter cage and lid</th>
<th>Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jets</td>
<td>Acetal Copolymer</td>
</tr>
<tr>
<td>Body</td>
<td>ABS (Acrylonitrile-Butadiene-Styrene)</td>
</tr>
<tr>
<td>Standard filter mesh screen</td>
<td>60, 115 or 250 micron nylon mesh</td>
</tr>
</tbody>
</table>
How to set up the RF100 Duplex Self Cleaning Pump Inlet Filter

The filter uses a proportion of the pump’s output to supply a feed to the internal back-washing rotor. The twin jets of the cleaning rotors rotate at about 60 rpm, cleaning the whole screen every \( \frac{1}{2} \) second. Approximately 20 – 25% of the pump output is required to supply the cleaning rotor.

For a larger capacity (up to 90 litres per minute) these filters can be combined to form a triple headed version that uses the same technology and filter cages, giving twice the flow rate.

As the cleaning mechanism is on the filtered side of the screen debris in the water will not obstruct the mechanism.