RF100

The RF100 is the smallest of our award winning self-cleaning inlet filters. It filters up to 30 litres / minute and is designed to protect dry mounted pumps and other equipment.

This robust and reliable filter is easily installed. With compact, lightweight design and simple connections it can be used for many garden and light industrial applications where there is a need to filter water. Ideal as a pond pump filter and for protecting small water features.

RF100

The filter uses 20 - 25% of the pump's output to drive the internal backwashing rotor, cleaning the whole screen every ½ second. Debris, wildlife and suspended solids are kept clear of the filter mesh, protecting your pump and other downstream equipment.

Key Features

- Protects pumps, analyser cells, jets, solenoid valves etc from blockage
- Self-cleaning, so maintenance is minimal
- Low space requirement
- Robust construction
- Reliable and economical
- Fine filtration to 60 microns
- Protects newts and tadpoles from becoming trapped or injured
The RF100 Self Cleaning Pump Inlet is designed to be sited directly in a water source and connects to the suction side of your pump.

The filter screens out any debris or weed and the patented cleaning rotors keep the filter mesh clear. The RF100 requires no external power source and operates whenever the pump is working.

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

Description

Filter cage and lid Polypropylene
Jets Acetal Copolymer
Body Acetal Copolymer
Standard filter mesh screen 60, 115 or 250 Micron Nylon Mesh

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>1.8</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 / width x height) mm (excl suction / return couplings)</td>
<td>125 x 67</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>
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<tbody>
<tr>
<td>Jets</td>
<td>Acetal Copolymer</td>
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<tr>
<td>Body</td>
<td>Acetal Copolymer</td>
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<tr>
<td>Standard filter mesh screen</td>
<td>60, 115 or 250 Micron Nylon Mesh</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter Diameter (mm)</td>
<td>100</td>
</tr>
</tbody>
</table>

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How to set up the RF100 single 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 rotor rotate at about 60 rpm, cleaning the whole screen every ½ second. Approximately 20 – 25% of the pump output is required to supply the cleaning rotor.

For a larger capacity (up to 60 litres per minute) these filters can be combined to form a double headed duplex 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.