

The Unique Rotorflush Low head Model Filterpumps

What are they?

A range of high quality submersible pumps with integral self-cleaning intake filters. This allows the high pressure, multi stage pumps to work in water contaminated with suspended solids.

The self-cleaning inlet filter has screens from 60-315 microns, keeping any solids above these sizes from entering the pump. This protects the pump and any upstream nozzles and valves from blockage.

Advantages over traditional pumps and filters

The self-cleaning inlet filter enables the high pressure pump to work in water with significant levels of suspended solids, (e.g sewage, ponds and rivers, rainwater from roofs and yards, and waste water from industrial processes).

Traditional pumps are fitted with a coarse inlet screen. These only keep out the larger particles and if there are many solids in the water they often block, starving the pump of water and need frequent cleaning.

The self-cleaning inlet filter on the Rotorflush Filterpumps is Completely cleaned every ½ sec keeping any solids away from the filter screen, preventing them entering the pump. The very efficient self-cleaning action allows fine filter meshes to be fitted without fear of blocking.

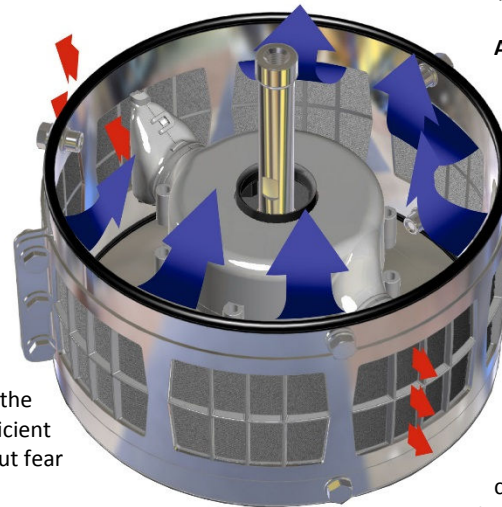


- **Removes suspended solids down to 60 microns**
- **Pressures up to 11 metres head**
- **Flow rates to 220 l/min**
- **Pump and self-cleaning filter in one unit**
- **Ease of installation**
- **Reduced capital, installation and maintenance costs**

How they work.

The self cleaning part of the filter consists of a pump impeller fitted inside a rotating housing that has two angled jets. The blue arrows show the main flow of water. This flows through the filter screen and up into the main pump.

The red arrows show filtered water inside the filter being sucked into the impeller and ejected out through the rotating jets. These angled jets direct water back through the filter removing any detritus that is beginning to block the screen and also making them rotate at 60 rpm.



Applications

Our customers are continually finding new applications for the Filterpumps but here are a **few examples** of how they are being used:

Online analysers are required to continuously monitor wastewater streams. The Filterpump is dropped into the waste water where it extracts, pressurises, filters and delivers it to the analyser.

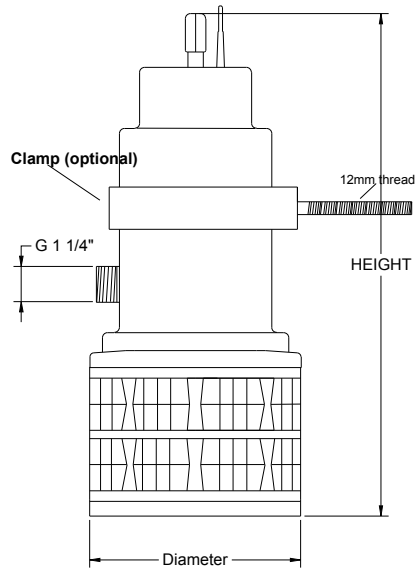
Landscape irrigation systems are increasingly using ponds, rivers and rainwater instead of mains water. This normally has to be filtered to prevent blockage of pumps, valves, nozzles and emitters. The Filterpump provides, pumping, self cleaning filtration in one easily installed unit, at lower cost and lower maintenance than existing systems.

Fountains and water features

Fountain and water feature pumps have intake filters that require frequent maintenance, or there can be problems with fountain heads blocking through lack of filtration. Rotorflush Filterpumps solve blockage and frequent maintenance problems. We can supply the Filterpumps with floats and fountain heads to give an easy to install maintenance free fountain up to 4 metres in height.

In Grey water recycling and rainwater harvesting systems the Filterpump pumps and filters the water from collection tanks for toilet flushing and garden irrigation.

Rotorflush Filterpump models O1608-16, O25010-16, O2008-16 & O35012-16



Performance Curve Rotorflush Filterpump Low Head Models

| Model | Nominal Power | | Absorbed Power | | Voltage | Amp | Capacitor uF | Height mm | Diameter mm | Outlet size ins | Weight Kg |
|-----------|---------------|------|----------------|------|-----------|-----|--------------|-----------|-------------|-----------------|-----------|
| | HP | KW | HP | KW | | | | | | | |
| O1608-16 | 0.55 | 0.4 | 0.75 | 0.55 | 1~220-240 | 2.4 | 8 | 453 | 220 | G 1 1/4" | 9.5 |
| O25010-16 | 0.75 | 0.55 | 1.2 | 0.99 | 1~220-240 | 4.5 | 10 | 491 | 220 | G 1 1/4" | 10 |
| O35012-16 | 1.1 | 0.8 | 1.6 | 1.2 | 1~220-240 | 5.1 | 16 | 491 | 220 | G 1 1/4" | 11.5 |
| O2008-16 | 0.75 | 0.55 | 1.2 | 0.99 | 1~110 | 5.1 | 30 | 491 | 220 | G 1/2" | 10 |

All 220-240V & 110v models are available with a built-in float switch.

Rotorflush strongly advise that dry run protection is installed if the pump is to be used unattended. In the unlikely event of the filter blocking the pump will run dry causing considerable damage. Rotorflush can supply suitable equipment