

Watercare 1200

Domestic Rainwater
Harvesting Control
System



PRODUCT OPERATION

The rainwater is distributed via an intelligent pump control system which pumps stored water from the tank to chosen appliances inside and outside the home.

When a connected appliance is used (e.g. flushing a toilet), a pressure switch operates the pump located at the bottom of the storage tank. The pump then draws water which is dual filtered to ensure the best quality water possible, the pump continues to operate until the water in the system has been restored.

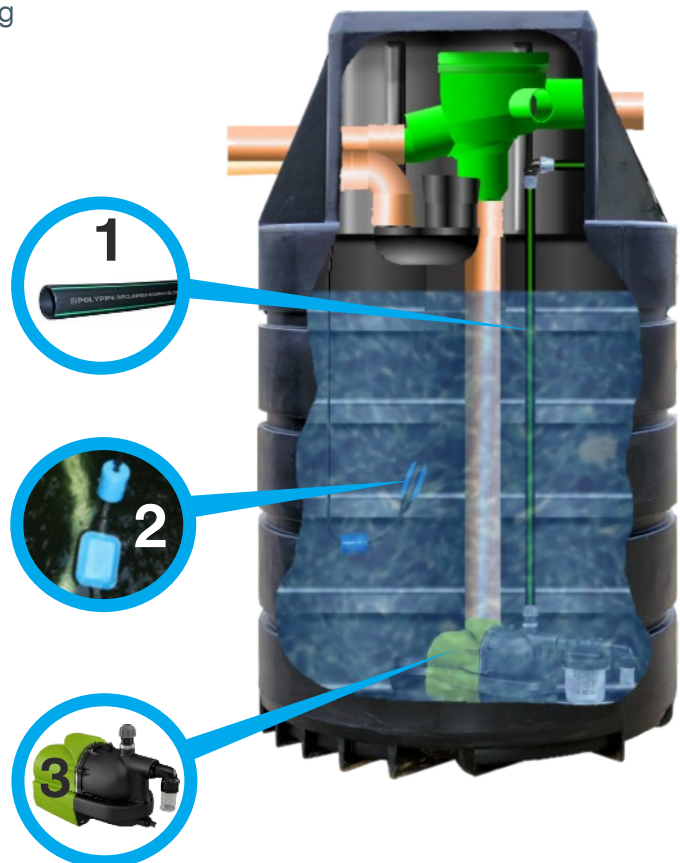
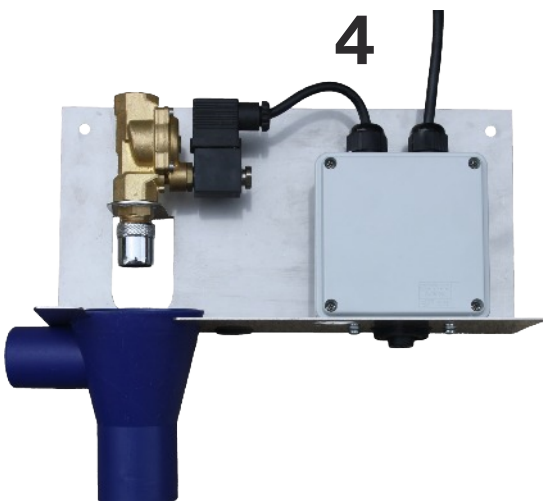
When the storage tank is full, it will overflow to surface water drain via the overflow at the top of the tank, however if the water level is low, the low level float switch in the tank will activate the controller solenoid valve to provide mains water back up and ensure a continuous supply of water in the tank to continue operation, but leaving considerable capacity in the tank to collect rainwater.

In the unlikely event of there being no water present in the tank, the system is equipped with dry run protection which automatically switches off the pump to prevent it from burning out.

ADVANTAGES

- Simple installation with Plug in devices
- Dual filtration pump - ensuring the best quality water is drawn from the tank
- Low power consumption - only 0.8Kw when the pump is running
- Dry run protection - for long pump life
- Pump thermal cut out - prevents overheating
- 2 year guarantee

1. MDPE delivery pipe to appliances
2. Low level float switch
3. Submersible pump
4. Control panel with mains water back up and tundish



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General specification - Control Panel

- Stainless steel bracket
- Mains water back-up solenoid valve
- Plug in socket for the float switch
- Tundish
- Mains power cable

Technical specification - Control Panel

- Power supply: 230Vac, 50Hz
- Material: ABS
- Degree of Protection: IP65

General specification - Float Switch

- Max. Contact Voltage: 250Vac
- Max. Contact Current: 15A
- Casing Material: Polypropylene
- Cable Material: CPE Synthetic Rubber
- Cable Length: 15 Metres
- Max. Operating Temperature: 70°C
- Specific Gravity: 0.9 to 1.3
- Max. Submerged Depth: 20 Metres

General specification - Solenoid Valve

- Coil Voltage: 230Vac, 50Hz
- Min. Operating Temperature: -10°C
- Max. Operating Temperature: +90°C
- Inlet Connection: 1/2" BSP
- Min. Operating Pressure: 0.1 Bar
- Max. Operating Pressure: 15 Bar
- Flow Rate: 3.8 cu.m/hour (3,800 litres/hour)

General specification - Submersible Pump

- Equipped with all electronic safety device that protects the pump from dry running.
- Built-in non-return valve
- Automatically Starts and Stops when appliances are opened and closed.
- Automatic manual reset.
- Constant pressure and flow rate.
- Strainer and Cartridge Filter

Technical specification - Submersible Pump

- Power Supply: 230Vac, 50Hz
- Power Consumption: 0.8KW
- Max. Suction Head: 3 metres
- Max. Delivery Head: 35 metres
- Cable Length: 10 metres (longer lengths available)
- Connections: OUT - 1" BSP Female
- Pump pressure (nominal) at outlet: 3.5 bar



AUTHORISED
USER NO. 01889

This product has been approved as a suitable water saving device and added to the Government's Water Technology List. Purchasers of this product may apply for a grant to help reduce their costs. For further information visit www.eca-water.gov.uk

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