

Watercare 2000

Domestic Rainwater Harvesting
Control System

PRODUCT OPERATION

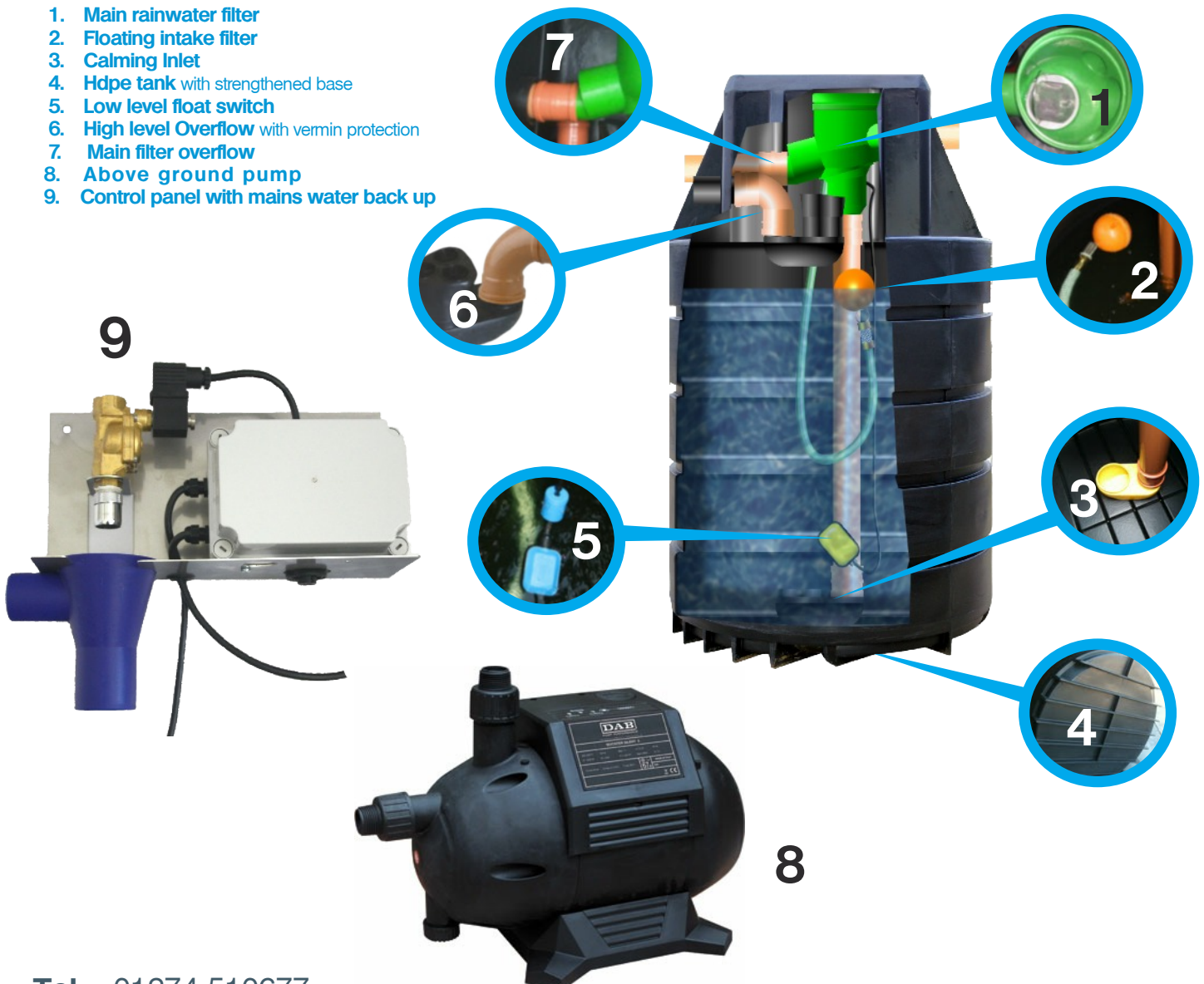
The rainwater is distributed via an intelligent pump control system which pumps stored water from the tank to chosen appliances inside and outside the home.

When a connected appliance is used (e.g. flushing a toilet), a pressure switch in the controller is activated which in turn operates the pump located above ground. The pump then draws water from the cleanest part of the tank, via a floating filter intake, 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 from the top of the unit, however if the water level is low, the low level float 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.

1. Main rainwater filter
2. Floating intake filter
3. Calming Inlet
4. Hdpe tank with strengthened base
5. Low level float switch
6. High level Overflow with vermin protection
7. Main filter overflow
8. Above ground pump
9. Control panel with mains water back up



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We **care** for your water

General specification - 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.
- Quiet pump - 67dB

Technical specification - Pump

- Power Supply: 230Vac, 50Hz
- Power Consumption: 1.0KW
- Max. Suction Head: 8 metres
- Max. Delivery Head: 35 metres
- Cable Length: 15 metres
- Connections: IN and OUT = 1" BSP Male

General specification - Float Switch

- Max. Contact Voltage: 250Vac
- Max. Contact Current: 15A
- Casing Material: Polypropylene
- Dimensions: 103mm x 81mm
- 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: ½" BSP
- Min. Operating Pressure: 0.1 Bar
- Max. Operating Pressure: 15 Bar
- Flow Rate: 3.8 cu.m/hour (3,800 litres/hour)

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for Domestic, Garden and Commercial applications
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for Domestic, Garden and Commercial applications
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