

# THE WISY DIRECT DOMESTIC RAINWATER HARVESTING SYSTEM

## HOW DOES IT WORK?

- Rainwater is collected from the roof drainage system by the underground Wisy WFF vortex filter (1). This filters out the debris and diverts about 90% of the water into the storage tank. The remaining water goes to soakaway or storm drain in the usual manner; as does the excess water from the tank.
- As water enters the tank it passes through a calmed inlet (2) which calms the flow of water and prevents disturbance of the float switch and any sediments.
- Water is then supplied on demand by the submersible pump (3) through a floating suction filter (4) to specific outlets, usually WCs, washing machine and garden tap.
- The pump is connected to a special controller (5), which turns the pump on and off when required and also gives dry-running protection to the pump if it should become necessary.
- Mains water (11) top-up is provided directly to the tank by a solenoid valve (6a) controlled by a float switch (6b). Water is discharged to the tank via a type AA air gap tundish (6c) compliant with current water regulations. This gravity-feeds to the tank through 50mm pipe that then connects to the outlet pipe from the filter.
- Water is pumped through 32mm MDPE pipe (7) up to the flow controller: Delivery pipe and cables are ducted to the house through a 110mm drainage pipe (8).
- An overflow trap (9) provides a water seal against any foul odours from drains. N.B. – an anti-backflow version is available when connecting to sewer.
- A level gauge (10) gives a visual indication of tank water level.

