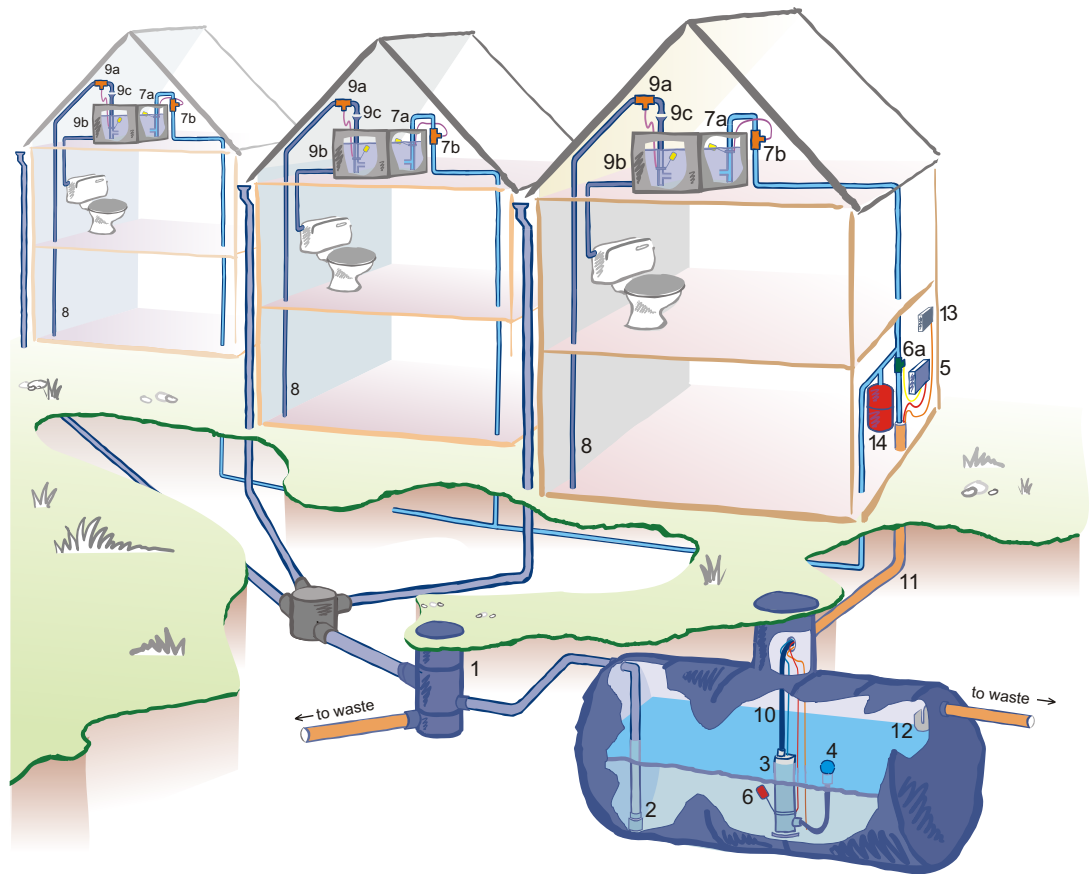




## ● Communal system for social housing schemes

This is a variation on our indirect system, but with a large storage reservoir shared between two or more properties, thus reducing initial outlay. Rainwater is pumped on demand into individual header tanks in each property for use in WCs. Each header tank also has a separate feed from the mains water supply, which automatically operates when there is no rainwater, or if the pump should fail. As with all of our commercial systems, an alarm signal is provided in the event of pump failure.



### How it works

- ▶ Rainwater is collected from the roof drainage system by the underground Wisy WFF vortex filter or filters (1). This removes the debris from the water and diverts about 95% of it 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 smooths 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 the header tanks and so to WCs etc.
- ▶ The pump is operated through a control panel (5) which has connections from the dry-run float switch (6) and pressure switch (6a). Water is pumped into each header tank when valve (7a) opens in response to float switch (7b), assuming of course that rainwater is available.
- ▶ A back-up from the mains water supply (8) is provided by a solenoid valve (9a) activated by float a switch (9b). The water is discharged via a type AA air gap (9c) in accordance with current water regulations. The break tank then supplies the WCs under gravity.
- ▶ Pressure hose (10) from the pump and the cables are led to the building through a 110mm drainage pipe which acts as a duct (11).
- ▶ An overflow trap (12) provides a water seal against any foul odours from drains. N.B. – anti-backflow and anti-vermin versions are available if required.
- ▶ A level gauge (13) gives a visual indication of tank water level.
- ▶ An expansion vessel (14) provides a buffer to prevent pump hunting.

N.B - where insufficient space is available internally, the system's controls can be housed outside within an appropriate enclosure.

**Rainharvesting Systems Ltd**  
Unit S2, Inchbrook Trading Estate  
Bath Road, Woodchester  
Stroud, Gloucestershire GL5 5EY

Tel: 0845 223 5430  
Fax: 01453 839260  
sales@rainharvesting.co.uk  
www.rainharvesting.co.uk

Company No 04248388  
VAT No 779277367