

Collecting and using rainwater from a roof can reduce mains water consumption by up to 50%. It will also reduce the amount of water discharged into the drainage system. Our domestic **Direct Rainwater Harvesting system** is simple to install and suitable for most domestic situations. This provides a pressurised clean water supply directly to a WC, washing machine or garden tap.

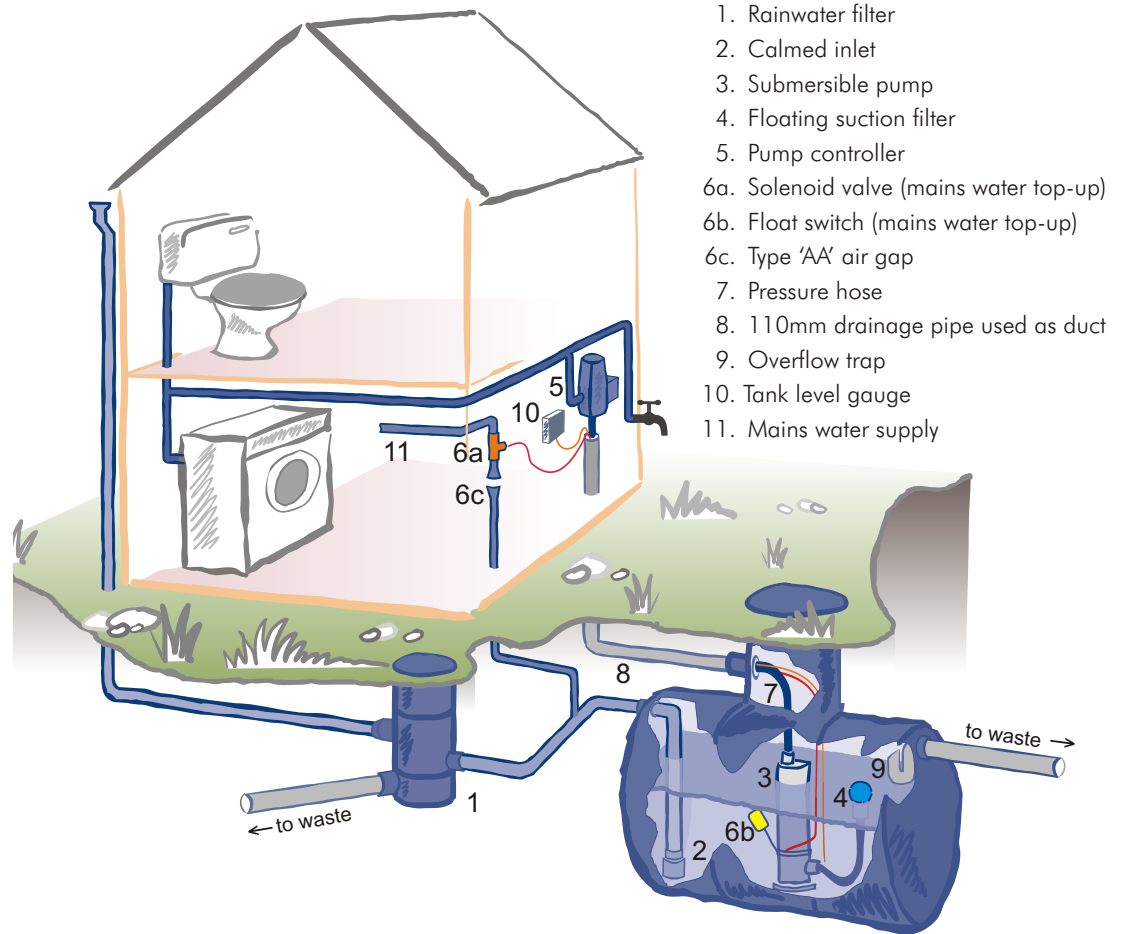
Widely used throughout Europe, it has proven to be one of the highest quality, most reliable and competitively priced systems on the market. Featuring the unique **Wisyr vortex filter**, the system provides clean usable water reliably and efficiently. Numerous tank options are available giving the flexibility to suit almost any property.

Where preferred, we also supply a '**Gravity System**' which has the addition of an internal header tank. This is particularly useful where it is only intended to supply WCs.

If water is only required for outside use we also offer our **Garden System**, in both above or below ground versions. With no mains water connection, the system is exempt from hosepipe bans, a particular benefit in many parts of the country

As well as individual homes we can supply a '**Communal System**' suitable for social housing schemes.

## ● Direct system



1. Rainwater filter
2. Calmed inlet
3. Submersible pump
4. Floating suction filter
5. Pump controller
- 6a. Solenoid valve (mains water top-up)
- 6b. Float switch (mains water top-up)
- 6c. Type 'AA' air gap
7. Pressure hose
8. 110mm drainage pipe used as duct
9. Overflow trap
10. Tank level gauge
11. Mains water supply

## ● Quality of harvested rainwater

Our systems are designed to provide clean rainwater with the minimum of maintenance. They involve a multi-stage cleaning process. Rainwater is very soft, an excellent quality for washing machines, and being chlorine-free it is ideal for watering the garden.

- Rainwater is first cleaned by the filter unit which excludes leaf debris and other large particles.
- Further cleaning takes place by settlement in the tank. The heavy particles sinking to the bottom and the lighter organic material floating to the surface. The heavy particles settle to form a beneficial biological layer at the bottom of the tank.
- The overflow is designed specifically to remove any floating particles when the tank overflows.
- Water is extracted from the cleanest part of the tank via a floating suction filter.
- The special tank inlet is designed to aerate the incoming water and to allow it to enter the tank with minimum disturbance.

The quality of rainwater collected using this process is greatly improved and can be stored for long periods without becoming stale.

## ● The scope of rainwater use

It is important to be aware of the limitations of rainwater use. In its raw state it is not suitable for drinking or bathing and is not recommended for use in hot water systems.

Most properties in the UK will not yield sufficient water to meet all household needs, hence it is customary to limit rainwater use to toilet flushing, laundry, garden watering and car washing.

In exceptional circumstances it may be worthwhile including UV treatment to provide potable water, but this significantly increases costs.

## ● Maintenance

The most important part of the rainwater system is the filter unit. By removing debris from the water before it enters the tank, organic matter is kept to a minimum. This ensures stored water will keep for long periods without deteriorating in quality.

The filter is the only part of the system which requires regular maintenance. This involves the removal and cleaning of the stainless steel element every two-three months. Having the filter separate from the tank enables safe easy access and simplifies cleaning.