

# Rainwater Harvesting

Keyline offers the Envireau Rainwater Harvesting system, designed as a low-cost installation for both residential and commercial applications.

BBA certified, it works by taking the rain from your roof gutters, filtering out leaves and debris and storing the water in an underground tank.

This is then pumped into the house to be used for non-potable applications such as toilet flushing and washing machines. If the tank runs empty, the system automatically switches to mains supply.

For use within:

- Homes and gardens
- Schools and public buildings
- Commercial offices
- Warehouses and factories
- Housing Associations
- Farms and agriculture
- Plant nurseries and garden centres



## Key Benefits of using Rainwater Harvesting

### Sustainability

Rainwater Harvesting can be a cost effective way of incorporating sustainability in to the fabric of a new construction project.

### Planning

The specification of sustainable products at the planning stage can assist the process. Many sites now have restrictions on the volume of water run-off, therefore the incorporation of Rainwater Harvesting can assist by greatly reducing the volume of water going to waste from new developments.

### SUDS (Sustainable Urban Drainage Systems)

The major benefit of Rainwater Harvesting in this process is its ability to take most or even all of the roof water out of the surface water system.

### Cost Saving

A reduction in use of mains water will obviously provide the user with a reduction in water charges.

### Benefits

Rain harvesting can reduce domestic mains water consumption by up to 50%\* and up to 85%\* on commercial installations.

The payback period can be as quick as 3 years on buildings with large roofs and a high non-potable water demand.

### The Envireau system\* can supply over 50%\* of domestic needs

Mains Water	% of domestic use	Rain Water	% of domestic use
Personal Washing	32	Garden & Car	13
Drinking Water	2	Laundry	12
Washing Up	8	WC Flush	33

\*Dependent on precipitation levels.



## Gardening

Rainwater is the best water you can give to your garden. Captured before it hits the ground, rainwater is free of many pollutants that plague surface and underground water supplies and almost always exceeds the quality of ground or surface water.

- Lawn and garden watering typically consume 40% of total household water use in the summer.
- Re-use of rainwater is not subject to hosepipe bans

## Business Funding

Businesses investing in the Envireau rainwater products may be able to claim tax relief through the Enhanced Capital Allowance (ECA) scheme, as the products are on the approved Water Technology List.

Businesses may be able to offset 100% of the cost of products on the Water Technology List against their taxable profits. Businesses that pay corporation and income tax in the UK may be eligible for the tax allowance.

## Envireau Direct System

The Direct System is suitable for both domestic and commercial applications.

This system is used where it is impractical to have a header tank and therefore filtered rainwater is pumped direct from the holding tank to the various appliances. When the holding tank is running dry there is a small automatic charge of mains water into the storage tank to ensure the system never runs completely dry.

The main advantage of this system is that rainwater is delivered to the appliances at mains pressure (3.5 bar).



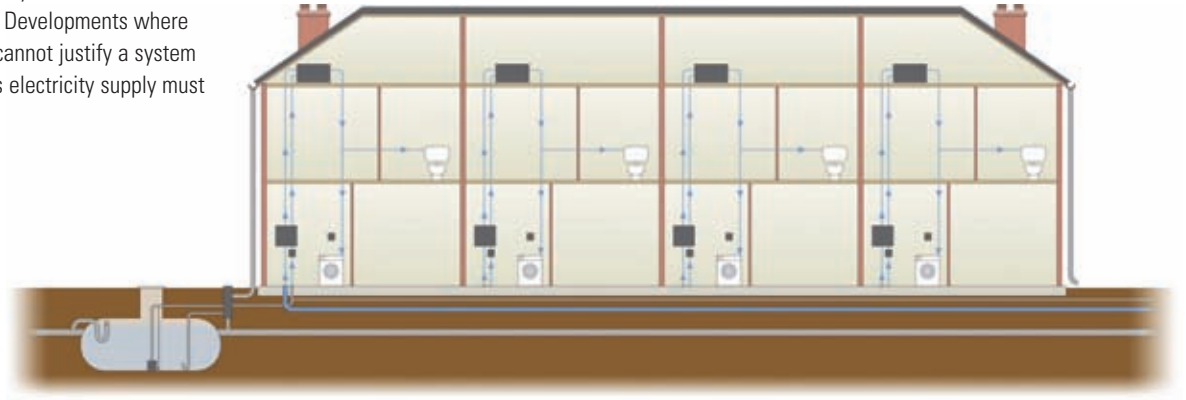
## Envireau Gravity System

The Gravity System is ideal for both domestic and commercial applications. It has a major advantage in that in the event of a power failure on site (or the rain stocks running dry) the system will automatically switch to mains water supply to ensure a continuity of service.

The header tank contains two independent valves operating both the mains and rainwater supply. The system will always draw on rainwater first.

## Envireau “Multi User” System

The “Multi User” System is used where one Envireau Gravity System is used to service up to 5 properties from one tank. This system is used most often on Housing Association Developments where the roof areas are small and cannot justify a system for each property. A landlord’s electricity supply must be available for this system.



## Raintrap Garden Watering System

Raintrap is an easy to install underground rainwater storage and delivery system designed specifically for garden irrigation.

Raintrap collects rainwater from the roof via the existing guttering and downpipe system on the property. The integral leaf filter will remove unwanted debris washed down from the roof thus ensuring good quality stored water.

The system is supplied with a 30m hose, connected to the integral water pump. A simple on/off switch will operate the pump, allowing it to deliver the stored water under pressure to where it is needed.

- Simple on/off operation
- Suitable for existing and new homes
- Automatic rainwater diversion when tank reaches capacity
- 2800, 3800 & 4600ltr capacities
- Internal self-cleaning leaf filter
- Designed and manufactured in the UK
- Automatic pump shut off when empty

### Raintrap

Capacity ltr	Overall Diameter mm	Height to Inlet/Outlet mm	Weight kg
2800	1905	1565	125
3800	2070	1795	180
4600	2080	2035	210

