



## rainwater harvesting systems

Complete kit of components for simple installation

- Low cost complete systems
- Quality manufacture with long warranties
- Low maintenance
- Above or below ground
- Compliant to international standards
- Wide range of tank sizes

The BritishEco range of Rainwater Harvesting systems have been designed using the highest quality components to create a reliable system that will provide many years of trouble free use. There are various systems types in the range to suit all applications from basic garden irrigation right through to fully automatic systems to provide all your home non-potable water needs

Systems are available with a range of tank sizes for use above or below ground and we can help calculate the size to suit your particular situation

The rainwater is triple filtered to ensure the water to be used is perfectly clean, this pure and soft water is much better suited for garden irrigation and laundry.

Each system will contain the three elements of rainwater harvesting; the tank, the filter system, the pump and controls. These will be different for each application so you can purchase exactly what you need.



## Introduction

The BritishEco Rainwater Harvesting systems are specifically designed for domestic and small commercial applications. We can assist clients with calculating the optimum size system based on roof area, roof time, average rainfall and usage.

In domestic applications it is generally accepted that mains water usage can be reduced by around 50% by utilising rainwater harvesting but in many commercial applications this will be far higher and often over 80%.

BritishEco offer these packaged solutions for smaller systems and can also provide specific systems for larger applications which will be sized and designed to suit the clients particular needs

## Features & Benefits

### Tank choice

We have a choice of single piece or two part tanks in various sizes from 1000 litres to 10,000 litres. The tanks are constructed from extremely strong High Density Polyethylene which is suitable for above and below ground applications. All tanks have pre-moulded locations for at least three entries using standard 110 drainage pipes.

The tank will come complete with turret and access cover so avoiding the additional expense of adding access chambers and manhole covers.

Tanks can be provided suitable for vehicle loading if required



### System Choice

There are four systems in the range which can all be selected with any of the available tank sizes. These systems range from a basic irrigation system to a full system that would be integrated into the home plumbing to feed toilets and laundry needs. The systems are designed to provide the best quality components to ensure systems give a lifetime of reliable performance.



### Optional extras

There are a host of additional optional extras that can be added to all systems, these allow for comprehensive systems to be created. We can also supply more bespoke systems to customer requirements

### Triple Filtering

A well designed Rainwater Harvesting System will provide perfectly clear water that is better suited to irrigation and laundry tasks than mains water.

The water from the roof is initially filtered before it enters the tank, it then passes through a calmed inlet which avoids the disturbance of any sediment. The overflow siphon will also cleanse the surface of the water and draw any floating particles off the top of the water. The pump intake also has a fine filter to ensure only clean water is drawn into the pump and transmitted to the home or garden



### Low maintenance design

All the filters are specially designed so self clean and remove particles and debris into the overflow system. With the integral filters it is also possible to incorporate a unique backflush system so that rainwater can be used to clean the filter by flushing water onto the rear side of the filter.

### Compliance to relevant standards

As rainwater is unsuitable for drinking it is important that it is not able to contaminate the mains supply with rainwater. All the BritishEco systems are compliant to the BSEN 13076 standard to ensure that this situation cannot occur.

### Pumps

The pump is the most vulnerable component within the system and potentially the most unreliable. Because of this we only use high quality pumps with integral pressure sensing, run dry protection and thermal trip. Depending on the application this pump can be installed within the water tank or externally in a garage or utility room in the house



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On 0845 257 0041

# Systems Types



## Garden Plus

The most cost effective system for use in the garden to water plants, wash cars and general cleaning duties. The system will include the tank, pump, downpipe filter, and float switch to turn the pump off if the water level is too low.

## Home Direct

This is the simplest system that is suitable for connection to both home and the garden applications. The filter and pumps are all integral to the tank but are controlled by a Pump Controller which is installed inside the house. If there is a situation where the rainwater is running low the system will automatically top up the tank to ensure all appliances can continue to receive water but always using rainwater if possible.

## Home Direct Plus

This system is similar to the above but incorporates a Rain Management unit in the house. This unit includes the pump and a small header tank and expansion vessel. The Rain Management Unit will be connected to both mains water and the rainwater so will automatically change over to mains water supply if the rainwater runs low.

## Home Indirect

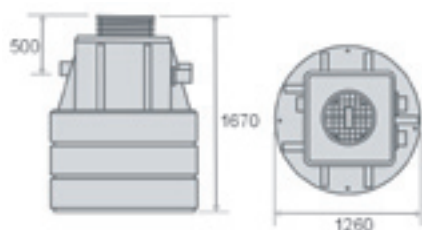
Some clients prefer the rainwater fed from a header tank in the loft so water is still available in the event of power loss. As the pump is only used to fill the header tank when it is empty the pump is used much less frequently hence extending pump life and reducing electricity costs. This system also has the added advantage of reducing noise within the house as the pump would be housed within the external tank.

For more product information visit [www.BritshEco.com](http://www.BritshEco.com)

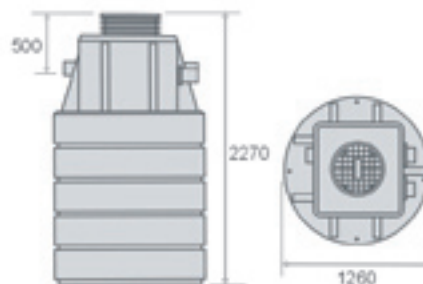
# Dimensional details of single piece tanks

Material: High density Polyethylene

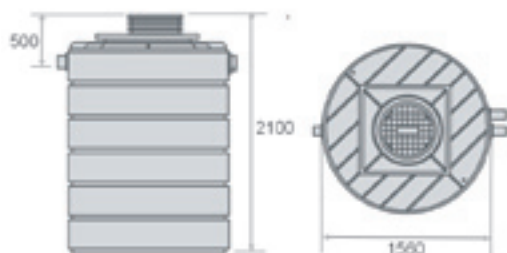
## 1450 litre tank



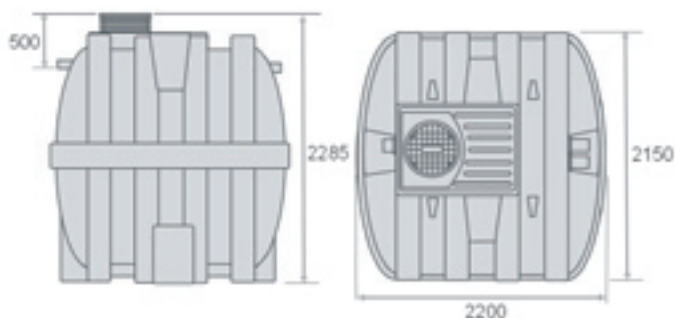
## 2150 litre tank



## 3350 litre tank



## 6000 litre tank



## Optional Extras

Extra Downpipe Filter

Additional DN100 Grommet

Upgrade from downpipe to PF filter

Hose connection box and kit (3P Lawn tap Kit)

Backflow Valve

Rapid Connector

3P-2000700

DN100

3P-1000300

3P-8000790

KARZB100

3P-1000210