thecodestore.co.uk

thecodestore.co.uk ltd

Rainwater Harvesting Systems

Â

Rainwater Harvesting System Information

Rainwater Harvesting Systems are becoming more frequent considerations for new build developments and refurbishments. A rainwater Harvesting system is a relatively simple system that can have multiple human and environmental benefits including reduction of water shortages, reduced mains water consumption (and subsequent reduced bills) and control of surface water run off (which helps reduce flooding).

How does Rainwater Harvesting work?

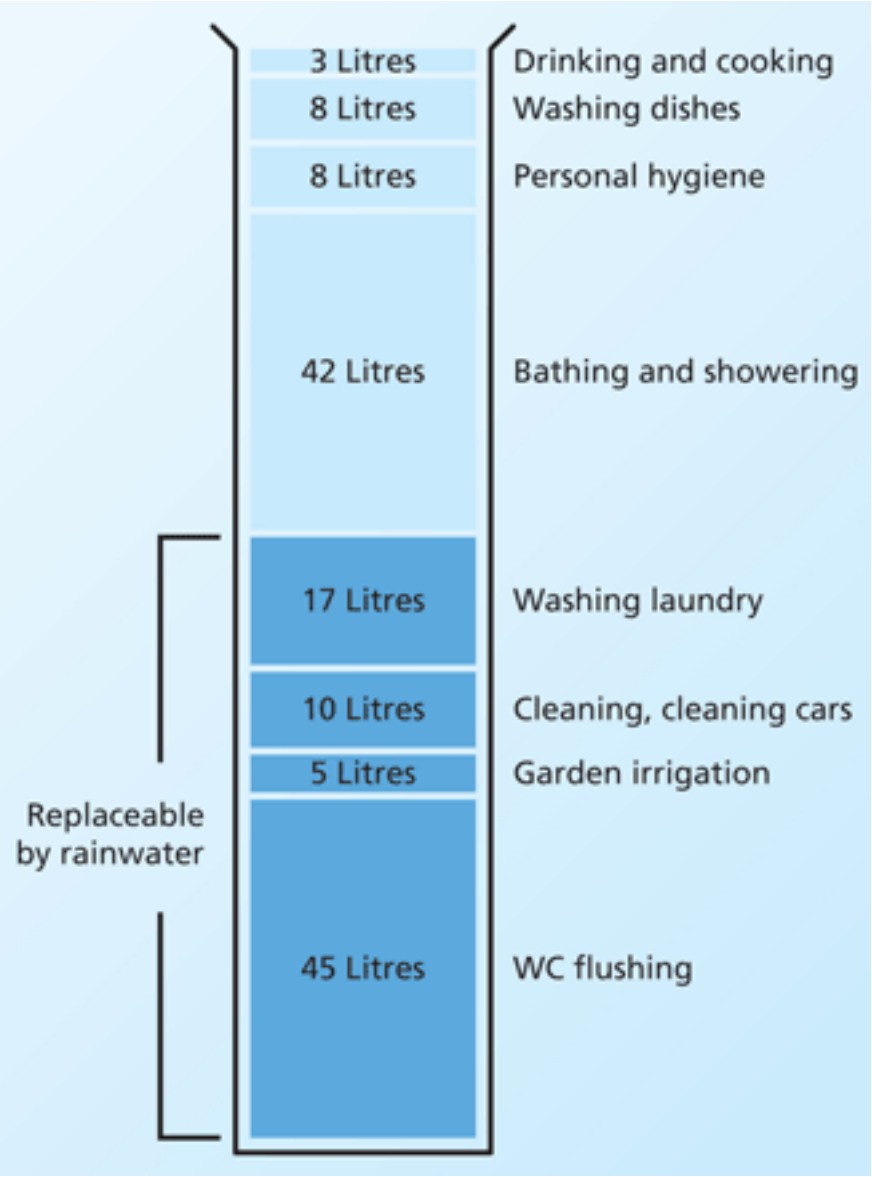
Requirements for a rainwater harvesting system:

- Rainwater must be collected from a roof (except green roofs), ground water is too dirty
- Rainwater must be filtered for debris before entering the tank
- Rainwater must be stored at a low, stable temperature to avoid bacterial growth or freezing (underground)
- Rainwater must be kept away from light to avoid algae growth (underground)
- Rainwater must be controlled upon entry to avoid disturbance of sediment within the tank
- The rainwater tank must be smooth internally to avoid the chance of bacterial growth
- The rainwater must be filtered again before being pumped, typically by a 0.5mm filter
- The rainwater is best not being stored in a warmer tank in a loft which can reduce the water quality

What can harvested rainwater be used for?

- Flushing toilets
- Washing clothes
- Watering the garden
- Washing the car

How much water can I save?



Using rainwater harvesting for the above activities can reduce your household water consumption by 50%

Direct Pressure Systems

We use direct pressure systems as they avoid the need for a secondary tank which reduces cost and can

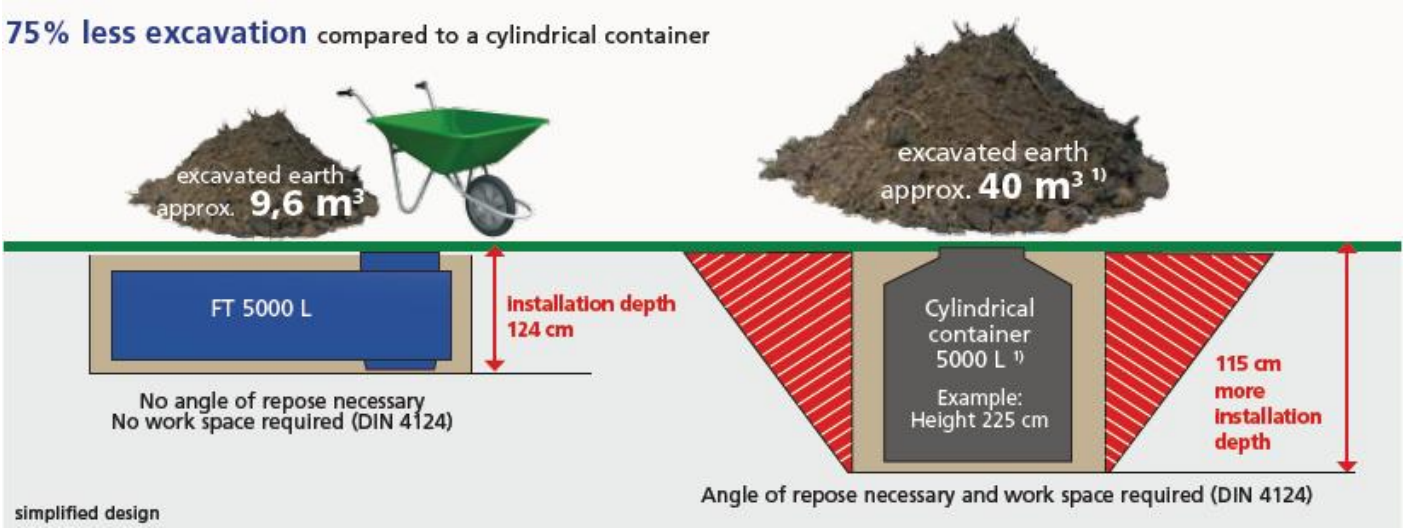
also reduce water quality.

A direct pressure system is where water is collected from the roof of a building (or surface water run off in certain circumstances) and then pumped from the main holding tank (above or below ground) directly to a non portable appliance; i.e. when a toilet is flushed or valve has been opened.

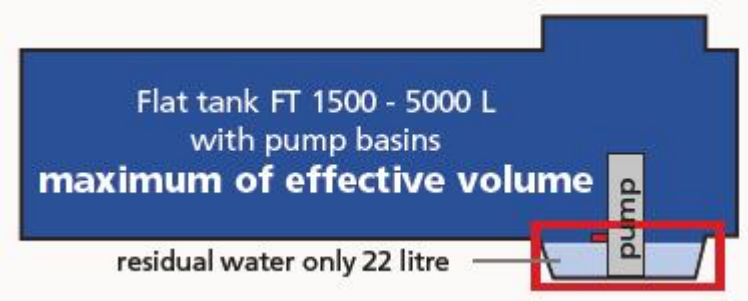
Advantages of a Flat Tank vs. Cylindrical Tank

For Excavation The installation depth of our garden systems is only about 98cm with the 1500 & 3000 litre flat tanks and only about 124cm with the 5000 litre flat tank. The advantages in the amount of excavated earth are obvious. For the 5000 litre flat tank only approximately 9.6m3 of excavated earth is removed compared with 40m3 for a 5000 litre cylindrical container.

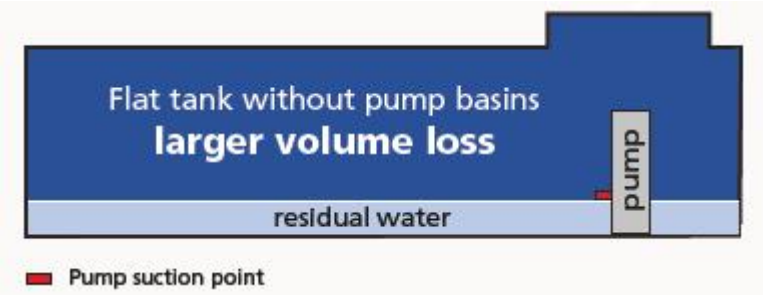
75% less excavation compared to a cylindrical container.



For Water Optimisation In the flat tank FT 1500 - 5000 litre, the residual water (water volume) is only 22 litres! The residual water is the water that remains in the tank and cannot be removed by the pump. For all flat tanks without pump basin the residual water (water volume) is much higher, resulting in a much larger volume loss. The remaining water (water volume) also depends on the type of pump and possible setting of potable water. The lower the residual water, the greater the effective volume!



For all flat tanks without pump basin the residual water (water volume) is much higher, resulting in a much larger volume loss.



Example of volume loss in flat tanks without pump basin

Flat tank without pump basins	Tank type 1500 L	Tank type 3000 L	Tank type 5000 L
volume loss per cm: total Volume ÷ tank height	1500 ÷ 65 = 23 l per cm	3000 ÷ 65 = 46 l per cm	5000 ÷ 104 = 48 l per cm
residual water = **volume loss** (For a pump suction point **10 cm** from the bottom)	**230 litre**	**460 litre**	**480 litre**
residual water = **volume loss** (For a pump suction point **15 cm** from the bottom)	**345 litre**	**690 litre**	**720 litre**

Accessories

Graf Platin Flat Tank - Garden System

Graf Platin Flat Tank, available in sizes from 1500L to 7500L. Rainwater Harvesting for reuse of water for garden irrigation. [Product Details...]

Code Rainwater Harvesting Carat S Systems

There are 5 systems available with this tank to suit your needs. Each system also ranges in capacity from 2,700/3,750 Litres up to 13,000 Litres. [Product Details...]

Code Rainwater Harvesting Rondus Tank

There are 2 systems available with this tank to suit your needs. Available in 2000 or 3000 Litre capacity, this flat tank offers reduced costs due to less excavation work needing to be carried out for installation. [Product Details...]

Code Rainwater Harvesting Flat Tank Only
£894.17

Flat Tank (Only) Rainwater Harvesting System. Purchase accessories with tank. Allows for reduced excavation depth and reduced excavation volume by up to 75% compared with a cylindrical container! This applies for tanks with a capacity between 1500 and 750 [Product Details...]

Code Rainwater Harvesting Flat Filter Tank
£1 144.17

Code Rainwater Harvesting Flat Tank + Filter. The filter helps to avoid blockages using a 0.8mm mesh to catch debris such as leaves and is also self-cleaning. The tank will only require to be cleaned every 10-15 years. [Product Details...]

Code Rainwater Harvesting BlueLine II Tank Only
£1 185.83

BlueLine II Tank Rainwater Harvesting System. This style of tank offers a larger capacity overall than the flat tank but also requires greater excavation volumes and depth. [Product Details...]

Code Rainwater Harvesting Garden System Flat Tank
£1 376.67

Rainwater is much better for your plants than mains water and is not subject to a hosepipe ban. Advantages of this system include: Underground storage eliminates growth of algae and the water can easily be filtered before entry making it cleaner [Product Details...]

Code Rainwater Harvesting BlueLine II Retention Tank

£1 435.83

The Retention tank addresses the issue of flooding into the sewer system during periods of heavy rainfall. This not only offers rainwater storage for reuse, but also a buffer volume which can be set at any level to control the release of water into the [Product Details...]

Code Rainwater Harvesting BlueLine II Filter Tank

£1 435.83

Code Rainwater Harvesting BlueLine II Tank + Filter. The filter helps to avoid blockages using a 0.8mm mesh to catch debris such as leaves and is also self-cleaning. The tank will only require to be cleaned every 10-15 years. [Product Details...]

Code Rainwater Harvesting Garden System Hybrid Flat Tank

£1 644.17

Rainwater is much better for your plants than mains water and is not subject to a hosepipe ban. Advantages of this system include: Underground storage eliminates growth of algae and the water can easily be filtered before entry making it cleaner [Product Details...]

Code Rainwater Harvesting Garden System BlueLine II Tank

£1 769.17

Rainwater is much better for your plants than mains water and is not subject to a hosepipe ban. Advantages of this system include: Underground storage eliminates growth of algae and the water can easily be filtered before entry making it cleaner [Product Details...]

Code Rainwater Harvesting Flat Retention Tank

£1 817.50

The Retention tank addresses the issue of flooding into the sewer system during periods of heavy rainfall. This not only offers rainwater storage for reuse, but also a buffer volume which can be set at any level to control the release of water into the [Product Details...]

Code Rainwater Harvesting Garden System Hybrid BlueLine II Tank

£1 935.83

Rainwater is much better for your plants than mains water and is not subject to a hosepipe ban. Advantages of this system include: Underground storage eliminates growth of algae and the water can easily be filtered before entry making it cleaner [Product Details...]

Code Rainwater Harvesting House System Flat Tank

£1 977.50

This system is for use within the house for functions such as flushing toilets, washing clothes, watering plants and washing cars. This tank comes with built-in features and 4 different capacities. [Product Details...]

Code Rainwater Harvesting House System BlueLine II Tank

£2 269.17

This system is for use within the house for functions such as flushing toilets, washing clothes, watering plants and washing cars. This tank comes with built-in features and 4 different capacities. [Product Details...]

- «« Start
- « Prev
- 1
- Next »
- End »»

Results 1 - 15 of 15