



waterwise

UK Water Efficiency Product Awards

Runner Up

Category: Water Storage

Flushrain

Key Features: Roof rainwater harvesting system, can be used for toilet flushing or outdoor use

FlushRain is a patented roof located rainwater harvesting system. It collects rainwater in reservoirs as it goes down the downpipes from the gutter and then pumps the water into storage in the roof. This rainwater can then be used to flush toilets. Any rainwater



which passes through the reservoirs goes into a water butt which has a solar powered pump so the rainwater can also be used for car washing and garden watering. The roof storage tanks and the water butts are capable of being emptied remotely in anticipation of a significant rainfall event. This will be part

of a SUDS system as that the first 2,000 litres of rainfall on each house roof do not enter the public drainage systems, but are stored in the house.

About 30% of the drinking water consumed in each house is flushed down the toilet, so using rainwater via the FlushRain system will save a substantial amount of unnecessary water treatment. Using the water butt pump to wash cars and water gardens could save another 7% of drinking water consumption.

The FlushRain Rainwater Harvesting system utilises a small roofspace mounted suction pump and storage tank. The suction pump is attached to a series of collection cartridges which are mounted near the top of each rainwater downpipe. During rainfall, these fill with water and trigger a float switch. Once all of the cartridges have been filled, the single pump activates and draws water via small hoses from each cartridge into the loft tank. This simple design makes it easy to retrofit and cost effective.

FlushRain recognise that the wholesale replacement of our water infrastructure to meet the demands of a changing climate is unlikely to occur any time soon. Every litre of rain flushed is another litre of water that can be left in our reservoirs. The uptake of rainwater use is increasing and will play an important role in delaying the impact of droughts.

A simple but effective rainwater storage system, the Flushrain helps to reduce pressure on existing water systems



The Waterwise UK Water Efficiency Product Awards celebrate products and technology that contribute to water efficiency, which benefits the economy, society and environment.