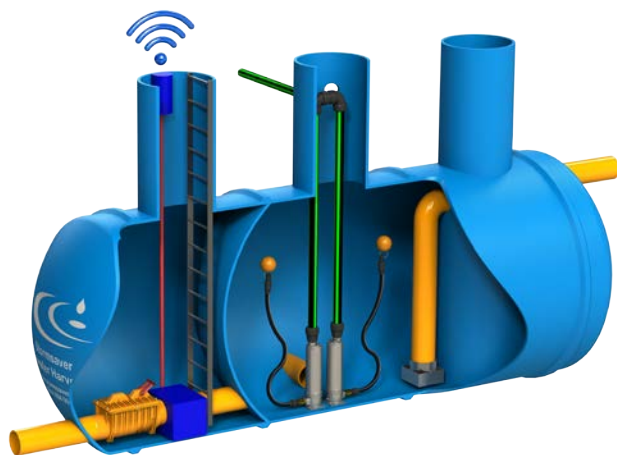




Active Attenuation and Rainwater Harvesting system

Product Data Sheet

Product Description

The Stormsaver Active attenuation system: StormHarvester combines Attenuation and Rainwater Harvesting in one system. The Stormsaver system counts towards 100% of attenuation volumes on site at the same time as Harvesting Rainwater. This is made possible by connecting your Rainwater Harvesting tank and attenuation system via pipework allowing stored rainwater to be drained before a storm event. Your Rainwater Harvesting System becomes part of your attenuation capacity, meaning you can reduce the number of attenuation crates/tanks used.

So how does it work: half of the attenuation tank takes surface water run-off and acts just as a regular attenuation tank, while the other half captures roof run-off and stores it within the Rainwater Harvesting System.

The StormHarvester technology is linked directly to a highly accurate, short to medium term Met Office Rain Prediction system. When rainfall is predicted, Stormsaver's telemetry recognises the anticipated rainfall event. A control system lowers the water in the Rainwater Harvesting tank to a safe level, so when the rain arrives all the necessary attenuation capacity is available within the tank.

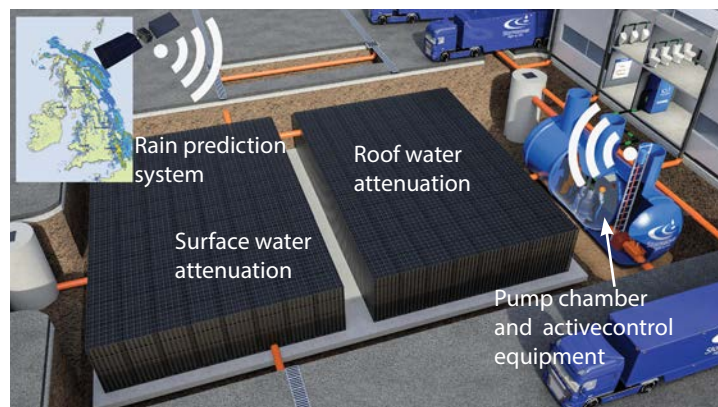
The system has a built-in failsafe so that the total attenuation capacity is available for all events that the system is designed for.

Utilising mandatory flood protection infrastructure in this way the Stormsaver system provides all new commercial buildings with a source of valuable recycled rainwater without the need for additional, expensive infrastructure. The system reduces installation costs and reliance on mainswater supplies at the same time as maintaining necessary attenuation capacity.

Applications

The Stormsaver Active attenuation system can serve one of our standard Rainwater Harvesting Systems for a wide range of applications including:

- Toilet and urinal flushing
- Vehicle washing
- Cleaning and wash down
- Laundry
- Plant watering and irrigation
- Industrial process use



Fail-Safe System

Battery backup:

Both the valve and site controller have a built in rechargeable battery pack to allow the system to continue working in the event of power failure. The system can operate satisfactorily for over 2 weeks without power. Once the power is reconnected the system will automatically recharge the batteries.

Blockage detection:

The system sends automated warning messages in the event that there is a partial or full blockage.

Automated Emails and SMS warnings:

Emails and SMS messages are automatically sent to all registered phones/email addresses in the event of any failure/blockage. The email addresses/phones which require the email/SMS can be programmed at the installation stage.

System Handshake:

The "controller" and "control centre" carry out system handshakes every 2 minutes, ensuring that changes in predicted weather patterns can be updated to the levels of stored water in the system.

Default Storm Attenuation System:

Within all failure scenarios the system defaults back to a Storm Attenuation system (Actuated valve open). The system is designed to first and foremost provide the required storm attenuation in all scenarios.

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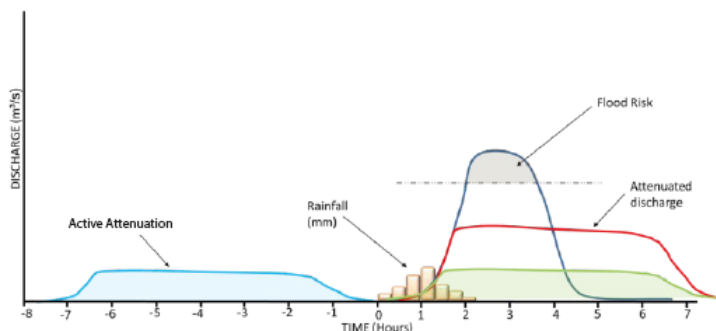
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Benefits

- Reduce Construction costs
- Reduce paybacks for Rainwater Harvesting
- Additional BREEAM points (3 points)
- Reduce foot print for sites with Rainwater Harvesting and Attenuation
- 100% of the cost of the Attenuation can be offset against tax under the ECA scheme
- Reduces discharge rates in storm events
- Reduces demand on public water supply
- Saves money on water bills
- Assisting with storm water and flood control.



By utilising weather forecasting technology the StormHarvester system can drain down attenuation tanks prior to rainfall events. This changes the discharge hydrograph pattern by ensuring partial discharge prior to the beginning of the event. This allows the system to make intelligent decisions and capture runoff during the majority of events therefore reducing the peak and overall runoff from the site.

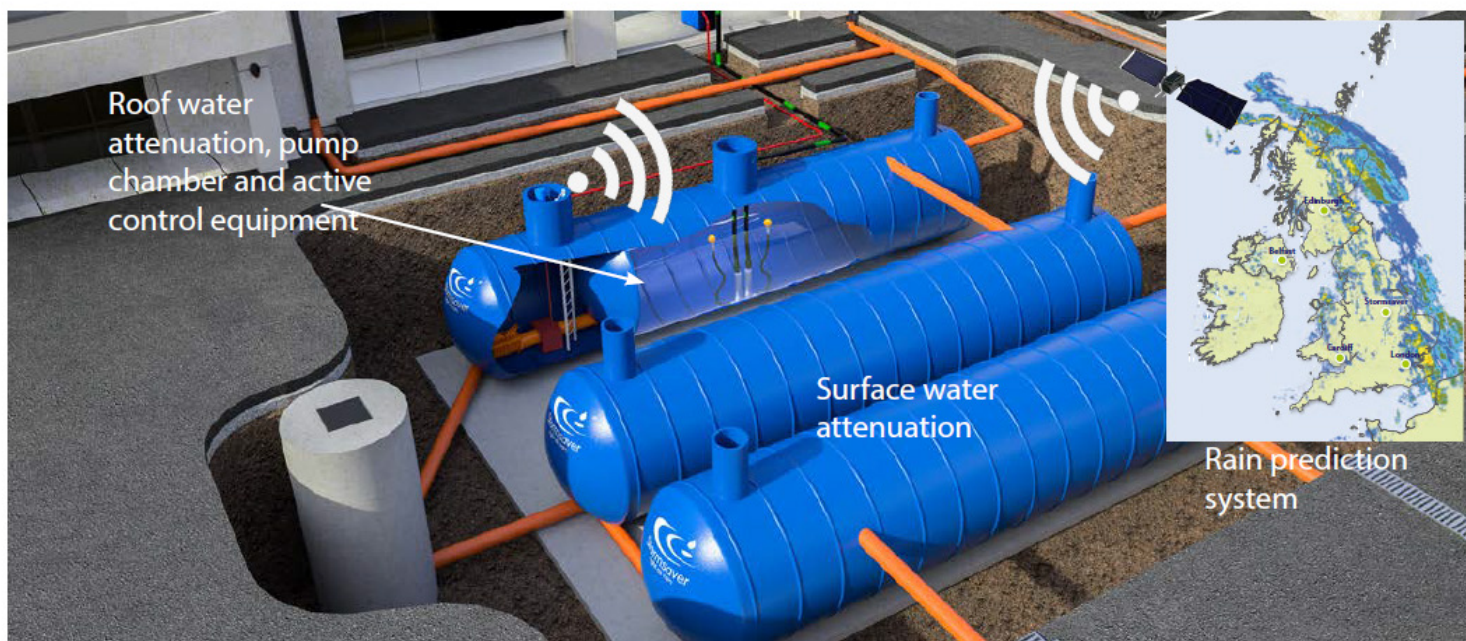
Conformity

Weatherproof (IP67) and anti-corrosive
A WRAS approved control valve that demonstrates full compliance with requirements of the Water Supply (Water Fittings) Regulations 1999
CE marking demonstrates the product complies with product supply law, and ensures conformity with relevant product safety directives.
The system has undergone 3 years independent testing in Queens University, Belfast.



Technical Details

Power supplied by Stormsaver control panel	Details
Power AC or DC	12V - 24V or 85V - 240V
Type A Valve diameter	12.5mm - 100mm
Type B Valve diameter	100mm - 600mm
Internal Thermostatic Heater	Prevents moisture forming within the actuator housing
Flow rates	Sized according to individual site requirement



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