

SDS Intellistorm®

Intelligent Stormwater Management System

SYMBiotIC™

SDS Intellistorm® systems combine stormwater attenuation and rainwater harvesting to maximise the capacity for water reuse whilst minimising the potential for flooding.

SDS Intellistorm® uses GPRS Met Office weather data, in conjunction with SDS SYMBiotIC™ software and engineered devices, to facilitate the autonomous control of water retention and reuse based on expected rainfall and local catchment area.



- SDS SYMBiotIC™ -enabled
- Daily rainfall forecast received
- Variable speed pumping
- Choice of pump capacity
- Tank level display
- Volt free BMS connection
- Submersible or dry-mounted pump
- Meets BSEN16941-12018 requirements

The intelligent control of attenuation tanks means that dual flood mitigation and water recycling purposes can be served by just one tank, with no extra storage capacity required for rainwater harvesting.

Water can be released to the surface water sewers during periods when the network is dry, relieving stress on both the mains water supply and the surface water drainage system.

Features	Benefits
Reuses water that might otherwise have contributed to flooding.	Limits impact of uncontrolled rainwater on natural environment and engineered drainage infrastructure.
System manages stormwater attenuation and rainwater harvesting using one tank only.	The additional space and storage capacity normally demanded by extra rainwater harvesting volume, together with the costs of associated materials and land take, are avoided.
Daily rainfall forecast received in mm/24 hours.	Continuous monitoring of rainfall forecasts ensures any expected changes in weather are accommodated.
Automated attenuation void calculation.	Provides control of tank water levels to optimise water reuse efficiency (via predictive weather forecasting). Constantly creates and maintains required tank void.
Sub-metering and automated meter reading, including remote production volume monitoring, available via SDS SYMBiotIC™.	SDS SYMBiotIC™ provides 24/7 client access to accurate rainwater harvesting data and mains water usage via a secure web portal dashboard.
Compatible with above- or below-ground installations.	Provides flexible design / usage.
Tiered redundancy system allows two mains water backups, operating on separate power supplies.	Ensures supply of water even in the event of system component failure.
Valves can be installed on the tank outlets before the flow controller.	Compatible with gravity drained systems. For systems where the tanks are below the level of the sewers a pump is installed.
Powder-coated steel or HDPE fabrication.	Choice of tank manufacturing material according to site requirements or specification preferences.
Low energy pumping.	Reduces running cost and carbon footprint.
Choice of pump capacity.	The system delivers the amount of water the project calls for. Any SuDS discharge limits set by the Water Company or Local Authority are adhered to.
Flexible pump location.	The pump is usually submerged when using an underground tank, or mounted above ground for example when using a tank located in the basement.
Bespoke pump sizes available on request.	Increases or decreases the amount of water supplied.
Safe-to-fail operation.	System performance is not compromised by power outages.
Compatible with a range of water filtration and treatment systems.	Ensures that when configured as a rainwater harvesting system the delivered water meets the required quality standards of multiple supply purposes.

SYSTEM REQUIREMENTS

- *Aerial*
- *Any network SIM card*
- *Cellular network area coverage*
- *Subscription contract with SDS for Met Office data*
- *240V AC power supply*
- *Additional battery back-up*

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