RAINWATER RECYCLING

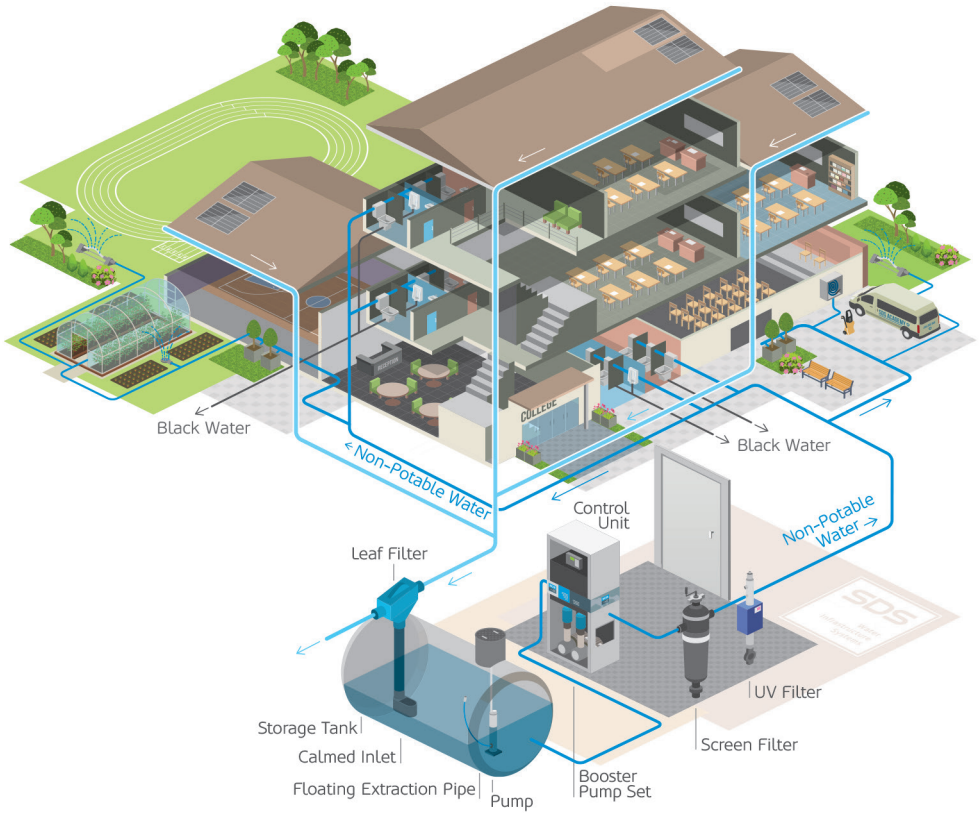
Water Infrastructure Systems

# SDS WATERBANK® RWR SYSTEM

Rainwater Recycling System

**SDS WaterBank® RWR is a fully automated system which provides an integrated rainwater management and delivery platform to enable the distribution of rainwater to an end user application.**

**SDS WaterBank® RWR incorporates a fail-safe mains water back-up in order to provide a seamless supply of water through periods of rainfall and drought.**




- *Supplies up to 25m³/hour*
- *Variable speed pumping available*
- *Tank level gauge and display*
- *Volt-free BMS output capability*
- *Powder-coated steel frame with polypropylene panelling (Control Unit)*
- *Meets BS EN 16941-1:2018 requirements*

SDS WaterBank® RWR's control system uses integral level control software to prioritise the reuse of rainwater as the primary source.

An integral break tank, which features a WRAS-approved mains back-up with an AA air gap, ensures a constant water supply is achieved by automatically switching to mains water when rainwater is unavailable.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| Features | Benefits |
|---|---|
| Provides a source of water other than the mains water supply. | Protects the supply of increasingly scarce treated drinking water. Reduces water supply fees and carbon footprint. |
| Reuses water that might otherwise have contributed to flooding. | Limits the impact of uncontrolled rainwater on the natural environment and the risk of flooding of the engineered drainage infrastructure. |
| Scalable system can be applied to single or multiple properties. | Suitable for use in commercial, industrial, community residential and domestic installations. |
| Can be partnered with above- and below-ground rainwater storage and Cat 5 water tanks. | Suitable for a diverse range of applications. |
| Controller is supplied from a submersible transfer pump located within the rainwater storage tank. | Ensures that the bulk of the stored water is kept in cool conditions, usually underground. |
| Bespoke booster pump sizes available. | Always supplies the correct volume and pressure of water across the building, whatever the demand. |
| Low energy pumping. | Reduces running costs and carbon footprint. |
| Safe-to-fail operation. | System performance is not compromised by power outages. |
| Optional sub-metering and automated meter reading, including remote volume monitoring, available via SDS SYMBiotIC™ telemetry system. | Provides client with 24/7 access to rainwater harvesting and recycling, as well as mains water consumption, data supplied via web-based client portal. |

SYMBiotIC™

| SPECIFICATIONS | WaterBank® RWR | |
|---|---|---|
| Maximum flow rate ($m^3$/hour) | 25$m^3$ | |
| Power | Single phase 240v, 32 A | 1 x 3 phase 400v, 32 A |
| Width* (mm) | 800 | 800 |
| Height* (mm) | 1800 | 1800 |
| Length* (mm) | 700 | 700 |
| Rainwater inlet connection | 1" | 1" |
| Outlet connection | 1/2" | 1/2" |
| Overflow connection | 1/2" | 1/2" |
| Remote monitoring | GSM production monitoring via SDS SYMBiotIC™ (optional extra) | |
| Filtration | Screen and UV | |

*Excludes clearances, exact dimensions provided on order.

RWR DS/0821



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