GREY WATER RECYCLING

SDS

Water Infrastructure Systems

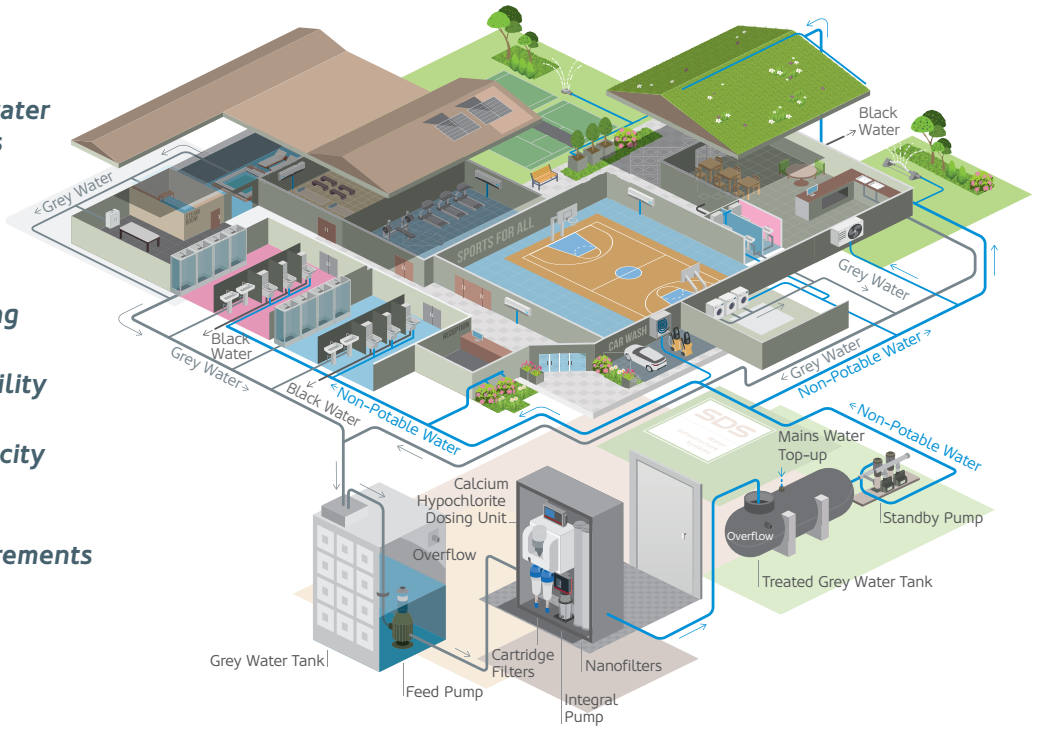
SDS WATERBANK® GWR SYSTEM

Grey Water On Demand System (Small Scale)

SDS WaterBank® GWR (SS) is a fully automated system which is designed to deliver a consistent supply of treated grey water to best meet a smaller site's daily demand.

SDS WaterBank® GWR operates on a fast treatment principle to meet demand quickly and reduce the need for large water storage tanks. It is ideal for smaller installations and where space is at a premium, as well as retrofitting of older schemes or existing developments. It is also suitable for combined grey water and rainwater recycling systems.

- *Max production flow up to 1m³/hour*
- *Automated function*
- *Adaptable to varying grey water supply and demand volumes*
- *Mains water back-up (on treated water tank)*
- *Includes distribution pumping*
- *Volt-free BMS output capability*
- *Smart design including capacity for IoT-ready interface*
- *Complies with BS8525 requirements*



SDS WaterBank® GWR (SS) uses a 2-stage treatment of cartridge filters to 70 microns, followed by a nanofiltration membrane to 0.01 microns.

Both stages incorporate an automatic backwash process to ensure the highest level of water quality, which is further enhanced and maintained by the carefully controlled dosing of low-level chlorine.

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Features	Benefits
Reduced storage needs compared to MBR systems.	Ideal for builds with spatial restrictions in the plant room.
Compatible with above- or below- ground tank installations.	Suitable for use in all building types (subject to max distances).
Recommended for partnering with SDS-supplied water tanks.	A back-up mains water supply in the treated water tank ensures seamless water delivery. SDS supplies and installs the complete system.
Conforms to BS and Water Supplies (Water Fittings) Regulations (when partnered with SDS-supplied tanks).	Provides legislative compliance.
High efficiency cartridge filtration removes all grey water particulates >70 microns.	Extends the life of the nanofiltration membrane whilst allowing high treatment rates.
Integral pressure monitoring and self-clean cycle.	Ensures system operation is maintained at maximum efficiency and is uninterrupted between service visits.
Intelligent chlorine dosing of treatment tank using dry block calcium hypochlorite.	Ensures treated grey water is maintained in a sanitary condition obviating the need for further UV treatment.
Variable speed pump available.	Specified bespoke to each application.
Water meter and remote production monitoring as standard.	Provides client access 24/7 to accurate information on grey water production, mains water usage and savings.
Variable time control for operation and automatic shut-down.	Perfect for variable demand situations and shut-down periods such as over weekends and holidays. System does not require rebooting or commissioning following shut-down.
Standardised start-up and shut-down procedure.	Suitable for periods when usage demand is low e.g. Christmas and holidays.
Includes capacity for IoT / real time control via GSM signal.	Link to a SDS SYMBiotIC™ web-based client portal provides viewing of operating data and reports.

SYMBiotIC™

SPECIFICATIONS	GWR SS1
Maximum flow rate (m^3/hour)	1
Motor output (kW)	3.7
Power	1 x 3 phase 400v, 32A
Width* (mm)	800
Height* (mm)	1800
Length* (mm)	700
Grey water inlet connection	1" (adjustable)
Outlet connection	1/2" (adjustable)
Overflow connection	1/2" (adjustable)
Remote monitoring	GSM production monitoring via SDS SYMBiotIC™ (optional extra)
Chemical additive	Calcium hypochlorite

*Excludes clearances, exact dimensions provided on order.

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