

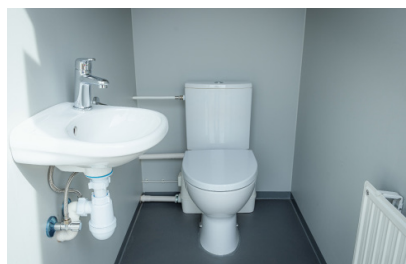


CONTAINERISED WATER REUSE SYSTEMS

When access to traditional freshwater sources are limited or unreliable, having a dependable, efficient, and sustainable water supply is critical. GDS containerised closed-loop water reuse systems are engineered to meet this challenge. Compact and self-sufficient, these units use advanced water treatment technologies to purify and recycle water—minimising waste, conserving resources, and reducing reliance on external supplies.

Choose from modular or integrated options: our modular systems seamlessly connect with existing hygiene facilities, while our all-in-one solutions combine showers, toilets, or laundry facilities with advanced water reuse capability for true operational efficiency.

Smart sensors and real-time software continuously monitor water quality, while optimised systems reduce maintenance and energy costs by up to 70%. The plug-and-play units feature an advanced membrane bioreactor and reverse osmosis technology for robust, high-performance water treatment.



EASY TO DEPLOY

System can be fitted into 10', 20' or 40' containers with lightweight components for quick and easy deployment in under 2 hours.

FULLY AUTOMATED

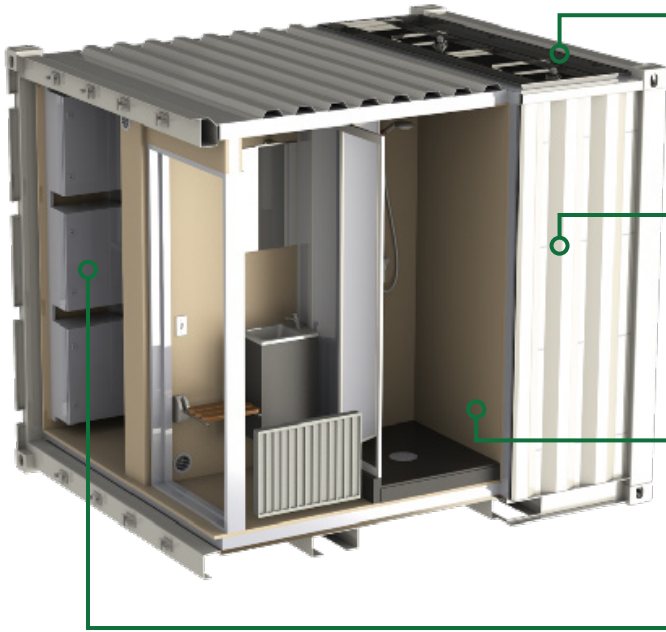
All chemical, biological, and mechanical processes of the Water Filtration System are managed by software and automation, including 5+ sensors.

CLEAN REUSABLE WATER

An automated reverse osmosis module produces potable water. The live monitoring of membrane pressure, flow, and conductivity ensures water quality and optimises energy use and treatment rate.



TECHNOLOGY



Sedimentation Tank

Hard solids like sand, paper, and dust are removed by gravity.

Membrane Bioreactor and Reverse Osmosis

Activated sludge and microfiltration membranes treat the wastewater. Processes are fully automated by sensors & software.

Optional In-built Bathroom or Laundry

Integrated shower, laundry, sink, or toilet.

Utility Room

Equipment, pumps, blowers, water reservoirs, and boiler for hot water.

TECHNICAL DATA

20' Containerised **Grey** Waste Water Filtration System (Supports 12 external shower cubicles and taps)

Potable Water Applications	Shower, tap water
Daily Potable Water Production	20,160 litres
Max Daily Water Usage: Shower	15,360 litres
Max Momentary Water Usage	78 litres/minute
Daily Operating Time	4+4 hours*
Number of People Served	570 people**
Reactor Size	8,500 litres

* 4 hours in the morning and 4 hours in the evening.

** 6 x 5 minute showers per hour for 8 hours each day (1 x shower per person).

20' Containerised **Black** Waste Water Filtration System (Serves 12 external toilet cubicles)

Water Applications	Toilet Flushing
Daily Water Production	9,200 litres
Flushes Per Hour	12
Water Consumption Per Flush	4 litres
Max Momentary Water Usage	48 litres/minute
Daily Operating Time	16 hours
Number of People Served	570 people*
Reactor Size	18,000 litres
Technical Water Reservoir	2,000 litres

* 4 x flushes per person each day.