



Aquaco Multimedia Grey Water Systems

Bespoke grey water systems for large commercial, institutional and multi-residential projects

Application

- Collects, filters, aerates, disinfects and stores grey water collected from showers, baths and hand basins.
- Supplies water for WC's, irrigation and washing machines (with a carbon filter).
- Complete grey water recycling solution supplied for plant room installation (tanks may be situated either within the plant room or underground).

Benefits

- Small footprint – ideal when space is limited.
- Cost effective BREEAM / LEED points.
- Up to 80% savings on water bills.
- Reduced environmental impact.
- System qualifies for the Enhanced Capital Allowance (ECA) Scheme.
- Continuity of water supply via mains water top up system from an accompanying AMCU booster unit / booster set & mains top up valve.
- Packaged filter skid for simple installation.
- Very fast filter rates.
- Tank sizes and filter process rates can be modified to suit specific site conditions.
- Low maintenance and running costs.
- Full installation, operation and maintenance instructions and technical support from Aquaco.
- Average power consumption of **0.99kW/m³** of filtrate compared to 1.75kW/m³ for MBR filtration.

Product description

The Aquaco Multi-Media grey water recycling system consists of three main components:

Pre-Treatment Tank – grey water enters this buffer tank via the pre-filter where it is aerated and stored prior to being processed by the filter skid.

Multi-Media Filter Skid – the grey water is disinfected by an integrated NaClO unit before passing through the multi-media vessel. The filter process is controlled via a number of float switches within the pre and post treatment tanks.

Post-Treatment Tank – treated grey water enters this tank from the multi-media vessel and is stored prior to demand at the point of use.

All systems are sized to specific site requirements. For smaller plant rooms we are able to increase the process rate and decrease the tank sizes as required – please ask for more details.



Technical specification

- Bespoke designed systems to cater for projects of all sizes – Please contact Aquaco who will supply a design & quotation for an appropriately sized system.
- Fully automated anti-stagnation drain-down system, exceeding the current BS8525 requirements.
- All components are compact and modular.
- Integrated, automatic mains water top up system.
- Plant room based filter skid.
- Either underground or plant room based tanks.
- Peak periods are absorbed by buffer storage within the pre-treatment tank.
- Operation via integrated control panel.
- Includes BMS outputs as standard.
- Integrated control for emergency actuated butterfly valves to direct grey water to mains drainage in sub-basement environments.
- All components powered via the main filter skid @ 415V/3ph/50hz.
- Can be combined with Aquaco rainwater harvesting systems.
- Includes 12 month warranty