

LSW...Rainwater Harvesting system



This system uses high-quality components to collect rainwater from a roof, filter and clean it, then store it for use in non-potable applications such as WC's, outside taps and vehicle washing, and in washing machines.

Our systems are bespoke to the specific requirements of the project, and are designed with both the installer and end-user in mind, being simple to install, and highly reliable.

Domestic Applications

The smaller Eiretherm systems are ideal for domestic applications, being extremely straight forward to install and needing virtually no routine maintenance..All external components are housed within the reinforced storage tank which in most domestic applications does not require the additional cost of concrete back-filling.

System Management

- Microprocessor controlled system with integrated program.
- Provides automatic management for a continuous water supply.
- Automatically switches to mains water if tank becomes empty.
- Monitors system operation and Indicates fault conditions.
- Provides leak detection and shut down when running on mains water.
- Manages pump dry run protection.
- Enables interactive testing and adjustment of system.

Pump control

- Dry run protection.
- Regulator for domestic water pressure.
- Air bleed screw.
- Submersible pump c/w 15 meter cables

Filter

- Self cleaning cross flow design.
- Integrated into the rainwater tank – for ease of installation.
- High collection rate filter.

Rainwater tank

- Adjustable entry dome to garden level.
- Our design makes assembly a simple, foolproof task.
- Submersible pump delivers vastly improved reliability.
- Usually requires no expensive concrete to be used in the installation.
- The recycled P. E. tanks standard sizes are 3,500 4,700 and 6.500 litres. Tanks can be linked to make larger systems.

Optional Extras

- Extensions to domes.
- Pumped overflow systems.
- Cable extensions up to 200 meters.
- High output pumps/duo pump systems.
- Header tank systems

Eiretherm typical system components

1. In-tank integrated, cross-flow self-cleaning filter.
2. Calmed Inlet filling device to ensure clean oxygen-rich water.
3. PE reinforced tank, with adjustable manhole.
- 4 High-quality, stainless steel, submersible pump.
- 5 Management System, Pump Control & Solenoid with LED water-level display.

Features of the Eiretherm system

Eiretherm Commercial Systems

Our Eiretherm commercial systems use the same principles as our domestic range, with the components sized to the particular application. Our systems are ideal for most applications including, typically:

- School Installations.
- Warehouse – internal & external uses.
- Office Blocks – often high demands for toilet flushing.
- Housing Association properties, with multiuser systems possible.
- Re-utilizing water for industrial processes.

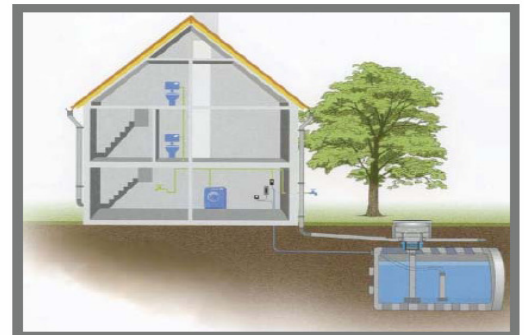
Benefits of the Eiretherm Commercial System

Commercial systems typically have a better pay back than domestic systems due to the higher water gathering capability and demand of commercial premises. The size of tank, filter and control systems are bespoke for each property. Bespoke control systems can be supplied with additional outputs to show system status. Header tanks can be fitted instead of direct pressure systems if required.

Shown to the right is a typical commercial building layout

We have an extensive list of components and options available for our commercial systems. Many of the components are listed overleaf. A typical specification for a building, such as that described in case study 2 overleaf would be:

- 1 Eiretherm 110,000 litre rainwater holding tank, complete with calmed inlet and siphon overflow.
- 1 VF6 Eiretherm Filter installed within a 1.2 M diameter manhole.
- 1 Eiretherm Duo 1,000 Control system. This unit supplies 2 8,000 L/Hr submersible pumps within the tank, and the control unit has duty/standby and duty/assist modes, plus pump alternation.
- 1 UV system @ 24 GPM rating.



The VF1 Filter Unit The VF2 Filter Unit The VF6 Filter Unit Design & Consultancy

Our design team are industry-leaders in the design and installation of rainwater harvesting systems, whether from an environmental, cost-saving or storm-water management perspective. We can provide developers and end-users with all the specialist support needed to ensure that their project is exactly matched to planned usage, local annual rainfall, and the required overall water management requirements of the site.

For more information or a quotation, please contact us.

Component Supplier

Eiretherm is able to supply a list of individual components for various bespoke projects/upgrades. The list is huge, however below shows a small selection of what we are able to offer:

- Tank Pre Filters from 500 to 80,000 square metre roofs.
- GRP tanks for rainwater holding/attenuation. Sizes range from 8,000 litres to 280,000 litres. For larger requirements tanks can be linked together.
- Control systems, from simple single pump units to multiple pump control systems with BMS outputs.
- UV Filtration units, any flow requirement catered for.
- Special bespoke tanks for unusual applications.

High Quality Commercial and Domestic Rainwater Harvesting +Storm Water Management Systems