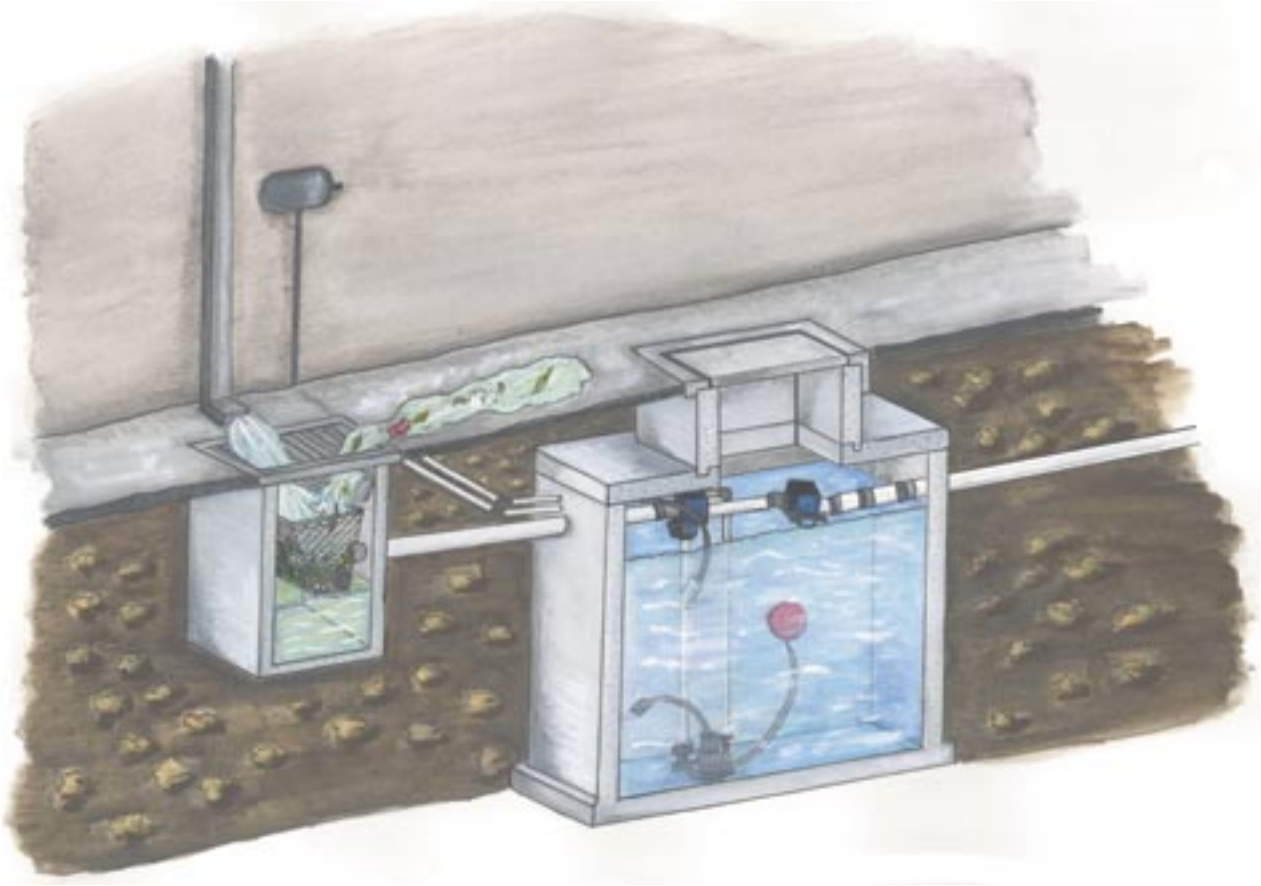
Ecosol™ RST 7000

Rainwater Storage and Re-use System



K E Y F E A T U R E S

Tested and Proven System

- ☑ All components are tried and tested in the field
- ☑ Fail-safe overflow siphon discharges excess rainwater
- ☑ Backflow valve prevents pollutants entering the unit
- ☑ Meets industry guidelines and standards

Environment-Friendly Rainwater Harvesting

- ☑ Reduces dependence on, and costs of, mains water
- ☑ Internal secondary filtration improves water quality significantly
- ☑ Controlled inlet device reduces remobilisation of settled solids
- ☑ Underground storage reduces bacterial and algae growth

Easy Cleaning and Maintenance

- ☑ Lightweight access covers are easily removed
- ☑ Easy access for inspection, cleaning, and maintenance
- ☑ Self-cleaning system that is largely maintenance-free
- ☑ Requires only infrequent inspections
- ☑ No risk to public safety and health
- ☑ Safe maintenance procedures within OH&S guidelines

Cost-Effective Design and Installation

- ☑ Unobtrusive design requiring minimal space
- ☑ Simple modular design with corrosive-resistant materials
- ☑ Delivered complete in a fully-contained pre-cast concrete unit
- ☑ Designed for maximum water-holding capacity
- ☑ Load-bearing tanks designed for trafficable areas
- ☑ Range of sizes available to suit site-specific conditions

Ecosol™
WASTEWATER FILTRATION SYSTEMS

Ecosol™ RST 7000

Rainwater Storage and Re-use System

The Ecosol **RST 7000** Rainwater Storage and Re-use System is designed to filter and store, ready for re-use, rainwater run-off from building roofs and impervious surfaces.

The unit comes complete and fully-contained ready to be used to reticulate the rainwater to gardens, parks, and even for use in flushing toilets, filling washing machines, and vehicle washdowns. It enables our dependence on mains water to be reduced, potentially by more than 50% and even up to 90%.

The **RST 7000** is designed for use on high-density residential and commercial sites where rainwater re-use is viable and desirable.

The unit is installed underground providing environmentally-friendly and safe rainwater storage, which helps reduce the risk of contamination from bacteria and algae growth.

The **RST 7000** consists of a pre-cast concrete pit containing a secondary filter that removes fine sediment from flows. Primary filtration usually takes place upstream of the unit using one of Ecosol's solid pollutant filters. This helps prevent the pollutants conveyed in the rainwater run-off from entering the unit.

The **RST 7000** also has a controlled inlet device to reduce remobilisation of settled solids and manage flow velocities and, as with all Ecosol units, it has an overflow mechanism that enables the unit to discharge excess flows. A backflow valve prevents the rainwater from travelling back into the unit.

The unit comes with a pump that has a floating intake valve and a controller that are used to reticulate the stored water to its destination at pre-determined volumes. Trafficable, solid-top sealed access covers provide easy access to the unit for cleaning and maintenance.

One of the key benefits of the **RST 7000** is that it is self-cleaning and, therefore, largely maintenance-free. Periodic inspections are usually all that is needed.

The unit comes in a range of sizes with all pipes and fittings included to suit the site-specifics.

Together with an upstream primary filtration system the **RST 7000** provides an environmentally-friendly cost-effective, and efficient rainwater re-use solution.

PERFORMANCE SPECIFICATIONS

Ecosol Unit Code	Volume	External Tank Dimensions[1]	Riser Dimensions	Pump Outlet Size	Access Cover	Unit Loading Capacity	Unit Weight
	L	L x W x H	L x W	mm	mm	mm	Tonnes
RST 7300	3,000	2700 x 1350 x 2250	1200 x 900	25	600 x 900	D	7.6
RST 7700	7,000	3600 x 1650 x 2600	1200 x 900	25	600 x 900	D	12.6
RST 71500	15,000	4500 x 1950 x 3200	1200 x 900	25	600 x 900	D	19.7
RST 72500	25,000	5550 x 2250 x 3525	1200 x 900	25	600 x 900	D	28.4

[1] The height excludes riser and access cover heights

Notes

The quoted storage capacities exclude air space tolerances of 350 mm from the underside of the cover slab
The above figures assume that the inlet, and overflow, pipe diameter is 100mm
The maximum inlet pipe diameter is 225mm PVC
Please contact your local Ecosol office for site-specific sizing and additional product performance specifications and design information

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