

Hidden benefits of ecoRain™ tanks

ecoRain® tanks are hidden below ground, are strong and durable, with an almost indefinite life span, and they help to improve water quality.

Out of sight:

Underground tank does not take up valuable land.

Load bearing tank:

The load-bearing capacity of the concrete tank allows it to be located almost anywhere on site.

Continuous filtration:

Self-cleaning filter and skimmer lower contaminant build-up.

Highly efficient:

Collects up to 95% of annual rainwater run-off.

Low maintenance:

Self-cleaning filter requires maintenance only twice a year.

Sustainable:

Extends the capability of existing water supply systems to keep pace with population growth.

Bushfire protection:

Can provide fire fighters with access to valuable water resources.

Improved water quality:

Underground concrete tanks are an ideal method of storing water, providing an almost germ-free environment away from light and warmth.

Range of sizes:

Three standard tank sizes (3000, 5000 and 10,000 litres)

Three standard systems



ecoRain3™

Capacity 3000 litres. Suitable for small dwellings (external taps only).



ecoRain5™

Capacity 5000 litres. Suitable for internal use in small dwellings (toilet, washing machine) or high outdoor usage (garden irrigation).



EcoRain10™

Capacity 10,000 litres. Suitable for combined internal and external water usage, or for small multi-dwellings.



Range of filters available for various capacities and system designs



Special inlet design slows the velocity of rainwater entering the tank and prevents it from stirring up sediments



Skimmer removes floating pollutants and prevents rodents from entering tank

Complete system solution

■ Tank ■ Filter ■ Pump ■ Control

Underground storage

Rainwater is best stored underground, where reduced warmth and light ensure an almost germ-free environment. The best storage tank material is concrete because concrete cisterns are strong, durable, last indefinitely and also neutralise rainwater.

Mains pressure supply

Water is drawn from the tank with a submersible pump. The pump is activated by the control system whenever a tap is turned on.

Tank top-up in dry spells

To cover water demand during dry periods, the Rocla ecoRain® system is fitted with mains water back-up. When the tank runs low, the system automatically switches to mains water, ensuring continuity of supply. When the tank begins to refill with rainwater, the controller then switches back to tank supply. Alternatively, the system can be supplied with a tank top-up device that detects low water level in the tank and automatically tops it up from the mains supply.

Self-cleaning filter

After the rain is collected from the roof, the filter system removes leaves, debris and fine particles and washes them into the stormwater system. There is no need for a "first flush" system to remove debris, which wastes rainwater. Pollutants are filtered out continuously and are swept into the stormwater drain along with small amounts of rainwater. The system is self-cleaning and requires maintenance only twice a year. The filter insert can be easily removed and cleaned in a dishwasher. A major benefit of the filter system is that the screen prevents mosquitoes from gaining access to the tank.

Controlled inlet velocity

To avoid re-suspension of fine sediments that gather on the bottom of the tank, the velocity of the incoming rainwater is reduced by doubling the diameter of the inlet pipe and diverting the flow towards the water surface. Another important function of the inlet is the introduction of oxygen into the cistern to avoid anaerobic conditions.

Removing pollutants

Once a maximum level is reached in the tank, the siphon constantly skims off the water surface and removes floating pollutants like pollen. The two inlets are slit-shaped to increase the skimmer effect and prevent rodents from entering the tank from the stormwater drain.

ecoRainPlus™ rainwater utilisation system

Packaged solution for higher volumes

The Rocla ecoRainPlus™ rainwater utilisation system is designed for high run-off flows. Large roofs such as those on factories and shopping centres have the potential to collect large amounts of valuable rainwater for use in industrial processes as well as for use in toilets and for irrigating gardens.

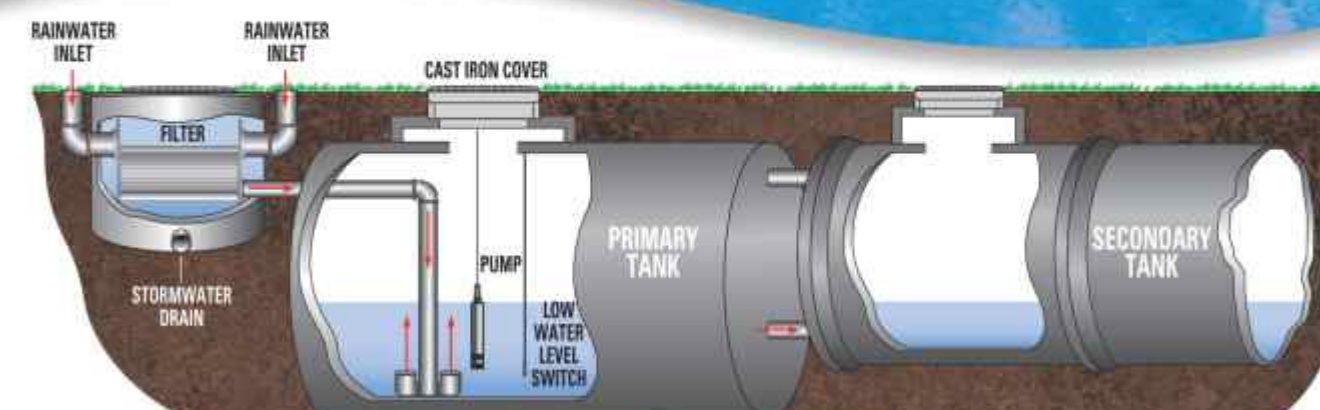
The complete ecoRainPlus™ system can utilise a variety of pumps, controllers and mains supply systems to optimise the package and tailor the system for any application. Storage volume is unlimited.

High-volume filters continuously filter all of the roof water. The filter is mounted in a separate filter pit that distributes the filtered water to the storage tanks and continuously removes filtered material through the overflow outlet, also located in the filter pit.

The ecoRainPlus™ system is ideal for residential and industrial developments that already require stormwater detention, allowing the stored water to be pumped back for applications such as toilet flushing and irrigation of landscaped areas.



The ecoRainPlus™ system utilises a variety of pumps, controllers and mains supply systems to tailor the package to the application.



Self-contained water supply for homes, business and industry

The Rocla ecoRain® rainwater utilisation system is more than a rainwater tank. It's a complete, self-contained water supply system that harvests rainwater for daily use.

Rainwater is collected from the roof, stored out of sight in an underground concrete tank, then pumped back to garden taps, toilets and laundry. When the tap is turned on, an automatic electric pump provides instant, mains-pressure rainwater.

During long dry spells, the ecoRain® Control System draws directly from mains water.

The ecoRain® system is suitable for:

Domestic use	Golf courses
Multi-residential developments	Schools
Shopping centres	Council parks
Large factories	Landscape irrigation
Public amenities	Combined detention and retention
Sports ovals	

Rainwater can be used to maintain gardens and landscaping, for flushing toilets, washing clothes, vehicles, etc. This helps to save valuable drinking water and reduce stormwater run-off, while reducing water bills.

ecoRain® underground tanks don't take up valuable land, spoil the view or hinder access

Bunnings goes green with ecoRain® systems

The Rocla ecoRain® rainwater utilisation system is helping Bunnings Australia to "go green" at its latest Queensland stores by capturing stormwater runoff for reuse. The new Bunnings Warehouse and Garden Centre at Stafford in Brisbane, for example, includes two separate ecoRain® systems - one for recycling roof runoff for toilet flushing, plus a larger system to recycle runoff from the outdoor nursery.

Wilbow breaks new ground in water saving

Melbourne-based international developer Wilbow Corporation raised the benchmark for water conservation by offering housing lots ready-fitted with ecoRain® systems. Allotments in the first stage of its Vaucluse Estate development were provided with a 10,000-litre ecoRain® tank. The public response was so positive that Wilbow committed to including the tanks in subsequent stages of the 25ha development.



Rocla nationwide

Positioned to serve your needs, Rocla's 14 factories and depots are strategically located throughout South Africa's nine provinces and in Namibia and Botswana.

South Africa and offshore markets are cost effectively supplied by road, rail and sea.

Made by modern processes, supervised in accordance with SABS Quality Management System, Rocla's factories make products that proudly carry the SABS Mark of Approval. All Rocla factories are ISO9001:2008 accredited

Head Office, Roodepoort: Tel (011) 670-7600, Fax: (011) 672-2141
Blackheath: Tel: (021) 905-1270, Fax: (021) 905-2913
Bloemfontein: Tel: (051) 434-2281, Fax: (051) 435-3568
De Aar: Tel (053) 631-3601/2, Fax: (053) 631-3351
George: Tel: (044) 874-3108, Fax: (044) 874-1822
Newcastle: Tel: (034) 375-7848/9, Fax: (034) 375-6941
Nelspruit: Tel: (013) 752-2403/77, Fax: (013) 752-3200
New Germany: Tel: (031) 705-1525, Fax: (031) 705-1773
Klerksdorp: Tel: (018) 468-6541, Fax: (018) 468-8098
Polokwane: Tel: (015) 293-1857/8, Fax: (015) 293-2821
Port Elizabeth: Tel: (041) 486-1462, Fax: (041) 486-2835
Roodepoort: Tel (011) 670-7600, Fax: (011) 672-2464
Virginia: Tel: (057) 212-3177/8, Fax: (057) 212-3179
Windhoek, Rocla Pipes: Tel: (0026461) 26-3128, Fax: (0026461) 21-5149
Gaborone, Kwena Rocla: Tel: (00267) 390-4032, Fax: (00267) 390-7160

Visit www.rocla.co.za, www.roclaproducts.co.za or email: enquiries@rocla.co.za



ROCLA

www.rocla.co.za

When every drop counts...

the largest, most versatile and hygienic rainwater harvesting solutions for Southern Africa



ecoRain™
Rainwater Utilisation
Systems

ROCLA
www.rocla.co.za