

Type	Used for	Storage Capacity	Approx. Annual Capacity	Available in	How does it work?
Rain Water	Greenhouse plant water and laboratory use. May be used to generate RO water.	72,000 litres x 4 Total 288,000 litres	28,257,000 litres	All greenhouses, laboratories and Smarthouses	Rain water is stored in 4 tanks – two off capture the north roof, two off capture the south roof. All water is treated via filter & UV & pumped throughout the building.
Tap Water (potable)	Drinkable water for human consumption	Unlimited	Unlimited	Kitchens and Bathrooms	Mains pressure supplied from Universal Infrastructure.
Tap Water (non-potable)	Watering and laboratory use.	Unlimited	Unlimited	Plant rooms Irrigation only (external)	Mains pressure from potable water system, water flow through check valve prior to reticulation.
Recycled Water- Mechanical Services	Cooling towers & evaporative unit.	2 x 73,000	7,000 litre maximum on a 38 deg C day when water use is at max	All greenhouses, laboratories and Smarthouses	Mechanical-waste water from the dump cycles off evaporative units and cooling towers is collected and treated to a suitable level for reuse into system. 7000 litres per day is blended back into mechanical storage tanks.
Recycled Water- Greenhouse Services	Irrigation	2 x 2,000 litre above ground tanks	4,000 litres, this will depend on the water use within the greenhouses	External irrigation only	Greenhouse waste water is treated with all solids removed and water is filtered to 5 micron. Water is stored for latter use as irrigation external to building.
Reverse Osmosis Water	Watering (special projects only)	1,000 litres generation per day with 3,000 litres storage	365,000 litres, based on storage capacity and not actual use	All greenhouses, laboratories and Smarthouses	<u>Reverse osmosis</u> is a membrane process that acts as a molecular filter to remove 95 to 99% of dissolved salts and inorganic molecules, as well as organic molecules with a molecular weight greater than 100. RO water in the Plant Accelerator is fed from the potable water or rainwater.
Ultra Pure Water	Watering (special projects only)	50 to 100 litres per day	30,000 litres	Special laboratory use only	Millipore Elix 5 UV Water Purification - Produces analytical-grade water quality with bacterial counts reduced to 1 cfu/mL from tap-feed.