

Pre-plumbed and prewired hot water cylinders

Introduction

The new SolarMate hot water cylinders take the hard work out of installing a solar water heating system. Being pre-plumbed and prewired, they have been designed to simplify the installation and minimise the time spent on site, thus reducing the cost of installing a solar water heating system.

The 330 litre duplex grade stainless steel hot water cylinders are manufactured in New Zealand by Sigma Sheet Metals / Triumph hot water cylinders under licence to SolarMate. So they offer the same high standards of resilience, reliability and life expectancy you have come to expect, but are now so much easier to install. The plumbers and electricians love them!

The first SolarMate cylinder to be released is the 330 litre drainback, future products will include, closed loop glycol, draindown and open loop cylinders. The drainback system utilises a proven design to minimise maintenance, maximise system performance and manage the risks associated with over-heating and frosts. The drainback systems have been proven time and again to out-perform other forms of solar water heating system.



SolarMate drainback system advantages

- Simple and fast plumbing installation – connect drains, hot and cold water and the flow and return to the collectors
- Minimal electrical works – plug in the controller (which is supplied with a 3m lead and wired plug) and connect the prewired element feeds to local isolators
- Less space required for the installation
- Proven as being the most reliable solar system, with lower maintenance costs
- Applicable to any location and climate, no overheating or frost risks
- Fail safe even in the event of a power failure
- Effectively manages over heating even during extended periods of no or limited hot water demand.
- Grundfos pumps
- EcoSolar UVR61 automated solar controller
- Timed and “One Shot” boost electric element controls

How does the system work

Under normal situations the collectors are empty, i.e. they do not contain water and so water cannot freeze or over-heat in the collectors. Only when water needs to be heated and there is heat available in the collectors does the pump turn on and circulate water through the solar collectors. When the pump stops the water drains out of the collectors and into the drainback reservoir.

Control

The SolarMate cylinder includes the EcoSolar UVR61 solar controller which automates the solar water heating system and offers a clear LCD screen to display the current system temperatures. A fault diagnosis screen ensures the system operates as intended and alerts you to a fault. A heat quantity counter is also included to monitor how much energy is being saved by the solar system. The twin element “One Shot” controller allows both the top and bottom electric elements to be controlled by the timer, “One Shot” boost or legionella control functions, this provides the maximum flexibility for the customer and ensures hot water on demand.

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