

GUARDIAN HOT WATER

Maximum safety,
protection and operating
efficiency, in one
centralised system.

The Rheem Guardian system is the perfect warm water management system, being a hotel we must be on top of quality control and never bring any disruptions to our quality service to our guests.

We at Ovolo highly recommend the Rheem Guardian system for any business application, for ease of mind we are confident in saying we provide the highest quality hot water for our guests on their special time away, no complaints and no service interruptions Rheem are always on top of their game.

Tony Pacione, Maintenance Manager
Ovolo 1888 Darling Harbour.

CASE STUDY

JETA GARDENS AGED CARE BETHANIA, QLD

Challenge

Completed in 2015, the \$13 million resort-style building accommodates 72 residents over three levels and required a safe, reliable and effective hot and warm water supply, with capability to disinfect Legionella bacteria.

Hot Water Solution

Rheem devised a three-component solution consisting of a Guardian warm water system, solar pre-heat storage and a Heavy Duty gas-boost plant. Rheem Commercial also provided design guidance on the ideal position of the solar component, ensuring optimisation of the building's available north-facing roof space. Rheem provides six-monthly services including water testing for Legionella, throughout the system.



GUARDIAN WARM WATER

WHERE CONTROLLED
WARM WATER IS NEEDED



LOW
OPERATING
COSTS



FAST
REPLACEMENT

SERVICED
WARM
WATER

Maximum safety, protection and operating efficiency, in one centralised system.

High safety performance

Thermostatic mixing valve technology for accurate temperature control and ultraviolet disinfection with no impact on pipework or water quality. Guardian features a tamper-proof design and UV fault detection for protection ensuring consistent performance and safety.

Lower operating costs

Centralised temperature monitoring and valve maintenance means reduced capital and operating costs in facilities with more than 22 beds, compared with equivalent TMV systems.

Fast replacement

With more Rheem Guardian units in Australia than any other centralised system, they're easy to replace in existing installations. Plus when regulations make tempering mandatory when replacing a water heater, Guardian can be added without individually tempering a whole building.

Multiple installation and design options

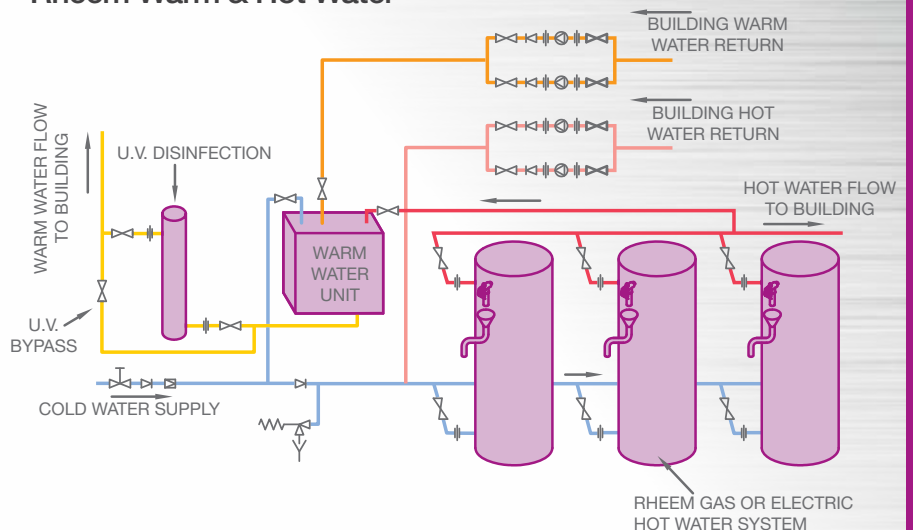
Available in three sizes, easily manifolded for increased capacity and able to be installed both inside and outside. Plus the primary heating plant can also be used to supply both tempered and non-tempered water.

Service

Rheem recommends yearly service maintenance that is carried out by a qualified professional.



Typical Installation Rheem Warm & Hot Water



Guardian Warm Water warranty: 2 years on commercial cartridge

TECHNICAL DATA

WARM WATER

Model		940 08001	940 16001	940 24001
Nominated Flow Rate [^]	L/min	80	160	240
Max. Water Supply Pressure – Static/Dynamic	kPa	1000/800	1000/800	1000/800
Min. Water Supply Pressure	kPa	500	500	500
Thermostatic Control Range	°C	25 – 60	25 – 60	25 – 60
Max. Hot Water Supply Temp (Temporary)	°C	70	70	70
Max. Outlet Temperature (Sanitising)*	°C	70	70	70
Min. Temp Differential Between Cold Supply and Outlet (Flow Conditions)	°C	15	15	15
Hot Supply and Outlet (Flow Conditions)	°C	15	15	15
Recommended Minimum Recirculation Flow Rate [^]	L/min	8	16	24
Recommended Minimum Temperature Loss in Recirculation Circuit	°C	2	2	2
Weight – Empty	kg	38	56	73
Indoor/Outdoor		yes	yes	yes

ULTRA VIOLET DISINFECTION

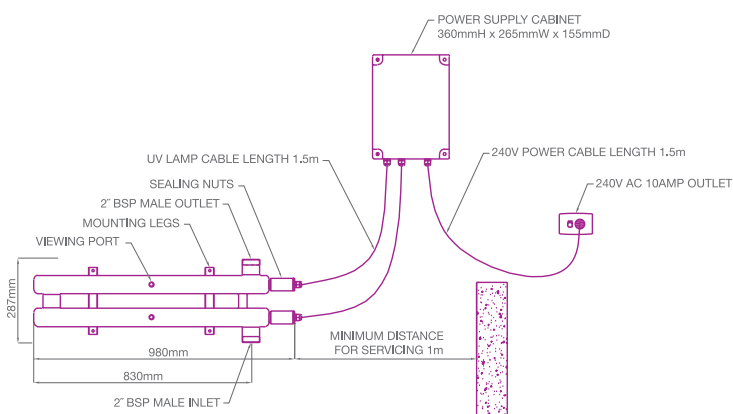
Model		940 00100	940 00200	940 00200
Nominated Maximum Flow Rate	L/min	83	250	250
Weight – Empty	kg	15	15	15
Electrical rating 240v 50Hz	Watts	216	480	480
	Amps	0.9	2.0	2.0
Viewing Window		yes	yes	yes
Audible Lamp Fail Alarm		yes	yes	yes
Volt Free Contacts for Remote Alarm		yes	yes	yes
Hours Run Meter		yes	yes	yes
Indoor/Outdoor**		yes	yes	yes

[^] At mid blend and equal dynamic supply pressures.

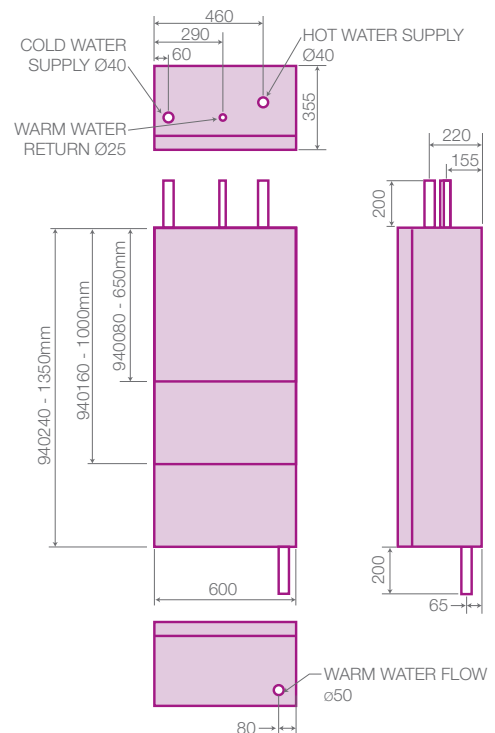
* It is recommended the ultra violet disinfection system lamps be de-energised if the outlet temperature exceeds 50°C.

**UV chamber must be installed under cover when installed outdoor.

Roughing in dimensions of 940 00100 UV Disinfection



Warm Water Roughing in Dimensions



Roughing in dimensions of 940 00200 UV Disinfection

