

GUARDIAN WARM WATER

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



CASE STUDY

**MODBURY HOSPITAL
ADELAIDE, SA**

Challenge

The upgrade of the existing hospital infrastructure was to provide specific plantroom solutions for requirements of 4 x operating theatres, general ward with 180 beds, commercial kitchen and laundry, central sterile services department (CSSD), emergency department and general amenities and café.

Hot Water Solution

Rheem Guardian is specifically used to deliver a temperature suitable for ablution areas, whilst the rest of the hot water system provides the Hospital for all other demands.

Total hot water plant installed across the precinct included:

- 2 x Rheem Tankpak systems model TPI05NFD
- 4 x Rheem RT1000 stainless steel storage tanks

- 4 x Rheem Guardian 240L warm water with UV disinfectant



GUARDIAN WARM WATER

**WHERE CONTROLLED
WARM WATER IS NEEDED**



**SUPERIOR
SAFETY**



**LOW OPERATING
COSTS**



**FAST
REPLACEMENT**



**SERVICED
WARM WATER**

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 outside¹. Plus the primary heating plant can also be used to supply both tempered and non-tempered water.

SERVICED BY RHEEM

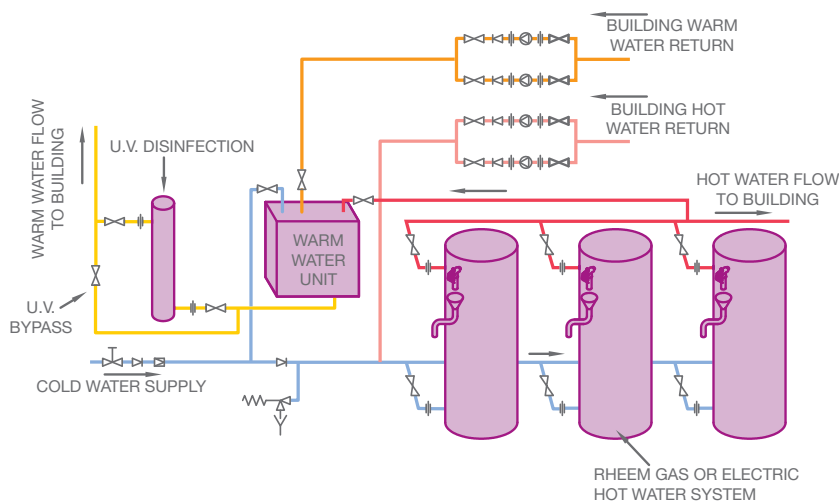
Rheem offers a national Guardian commissioning, service and maintenance program for peace of mind.



*2 year commercial cartridge warranty.
*Conditions apply: For full terms and conditions please contact Rheem or see Owner's Guide and Installation Instructions, available at www.rheem.com.au



Typical Installation Rheem Warm and Hot Water

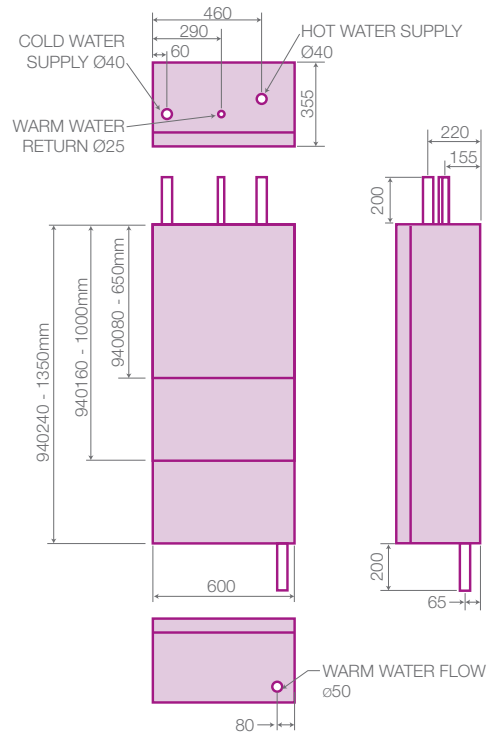


TECHNICAL DATA

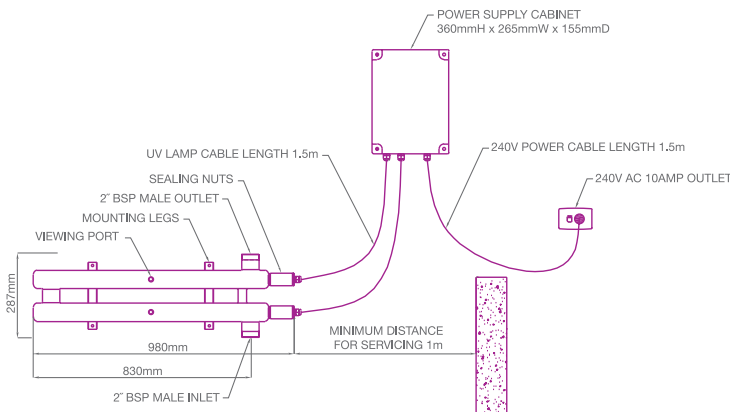
WARM WATER				
Model		940 080	940 160	940 240
Nominated Flow Rate ²	L/min	80	160	240
Max. Water Supply Pressure – Static/Dynamic	kPa	1000/800	1000/800	1000/800
Min. Water Supply Pressure	kPa	500	500	500
Thermostatic Control Range	°C	25 – 60	25 – 60	25 – 60
Max. Outlet Temperature (Sanitising) ³	°C	70	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 ²	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		940 001	940 002	940 002
Nominated Maximum Flow Rate	L/min	83	250	250
Weight – Empty	kg	15	15	15
Electrical rating 240v 50Hz	Watts Amps	216 0.9	480 2.0	480 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 ¹		yes	yes	yes

¹ UV chamber must be installed under cover when installed outdoor.
² At mid blend and equal dynamic supply pressures.
³ It is recommended the ultra violet disinfection system lamps be de-energised if the outlet temperature exceeds 50°C.

Warm Water Roughing in dimensions



940 001 UV Disinfection Roughing in dimensions



940 002 UV Disinfection Roughing in dimensions

