
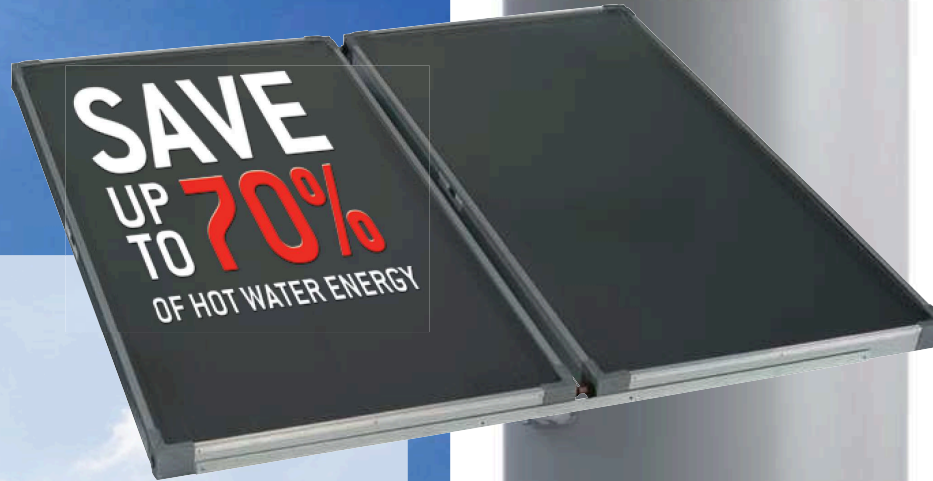


### Rheem Premier Solar

- Cut hot water heating costs by up to 70%
- Drain Back protection
- Option of electric or gas boosting
- Over heat protection built-in
- Storage cylinder can be installed indoors or outside your home

People 1-7	270L	Outdoor Install	 Solar	7 year warranty
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Refer to Page 34 for full specifications



Free  
from energy  
the  
Sun



# Rheem Solar

Rheem Premier Solar water heating takes advantage of the sun's free energy to create hot water. During the summer months solar heating can provide almost all your hot water needs.

There are four types of solar heating:

**Open loop** (or direct) where the water heated in the collectors is the same water stored in the cylinder.

**Closed loop** (or indirect) where heating fluid is passed through a heat exchanger in the cylinder.

**Roof mounted** where the collectors and cylinders are both mounted on the roof.

**Split system** where the collectors are on the roof and the cylinder is at ground level, with a pump circulating liquid up through the solar collectors.

Closed loop, split solar is Rheem NZ's Premier Solar system which is designed for top performance in our environment, even when it is frosty or the water quality is poor. This revolutionary system combines Rheem NZ's high efficiency T200 collector with a heat exchange cylinder to heat and store 270 litres of water.

The closed system has heat transfer fluid - which drains back into the heat exchanger when the water is sufficiently heated, or is likely to freeze. This provides broad protection for the system, preventing calcium formation from poor quality water and also from overheating, freezing and stagnating. Sacrificial anodes in the vitreous enamel lined storage tank offer the longest term protection available.

For totally reliable water heating and protection from cloudy days, solar should be backed up with another heat source. The Rheem Premier solar system can be supplemented by an internal electric heating element or a remote Rheem Continuous Flow gas booster unit - powered by either natural gas or LPG. The electric boost provides 135 litres of hot water with an element rated at 3.6kW. Both activate automatically when the water temperature is less than 58 degrees.

Rheem provide a range of 'Solar Ready' storage tanks available for new homes or for replacing your existing hot water system. This means you'll be ready for a solar system when the time is right for you.

By future proofing your home, a solar ready storage tank means the added peace of mind that your home is ready to take advantage of renewable energy source at any time.

See [www.niwa.co.nz](http://www.niwa.co.nz) for the sunshine hours in your local area.

**Fact:** Solar is wonderful **free energy** from the Sun but be sure your geographic area is suitable



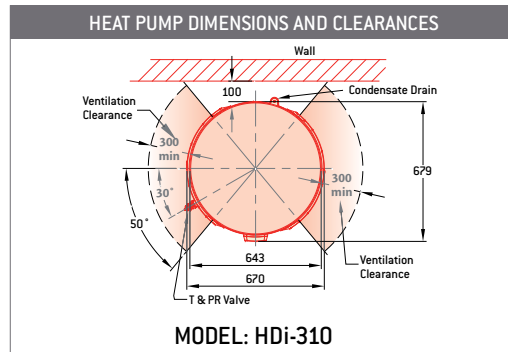
TURN IT ON™



## HEAT PUMP

	HDi-310	MPI-325
Initial Storage Capacity	Litres 310	325
Height	(mm) 1870	1631
Approx Weight Empty	kg 135	136
Relief Valve Setting	kPa 1000	1000
Without Expansion Control Valve	kPa 800	800
Minimum Water Pressure	kPa 200	200
Water Connections	RP <sup>3/4</sup> /20	RP <sup>3/4</sup> /20
Element Rating	kW 3.6	2.4 or 3.6

SIZING GUIDE	ZONE	PEOPLE
Moderate Climate	1	3 - 7
Cold Climate	2	2 - 5



## PREMIER SOLAR

MODELS	
Electric / 2 Collectors	A591270/2T
Electric / 3 Collectors	A591270/3T
Gas / 2 Collectors	A591270/2TG
Gas / 3 Collectors	A591270/3TG
Storage Capacity	270 Litres
Roof Space Required	
- 2 Collector	2.4m x 2.0m
- 3 Collector	3.6m x 2.0m
Dimensions - Cylinder	H 1755mm x D 650mm
Weight Empty - Cylinder	147kg
Weight Empty - Collector	48kg
Temperature Pressure Relief Valve Setting	1000kPa
Expansion Control Valve (ECV) Setting	850kPa
Minimum Supply Pressure	150kPa (Gas boosted only)
Water Connections	
- Inlet	<sup>3</sup> / <sub>4</sub> "/20 BSPF
- Outlet Tempered	<sup>3</sup> / <sub>4</sub> "/20 BSPF
- Gas	<sup>3</sup> / <sub>4</sub> "/20 BSPM
- Solar Flow and Return	<sup>1</sup> / <sub>2</sub> "/15 BSPM

SIZING GUIDE	ZONE	PEOPLE
BOOSTING TYPE		GAS ELECTRIC
Moderate Climate	1	2 - 6 1 - 3
Cold Climate	2	2 - 5 1 - 3

**MINIMUM PANEL INCLINATION ANGLE FOR LOCATIONS IN NEW ZEALAND**

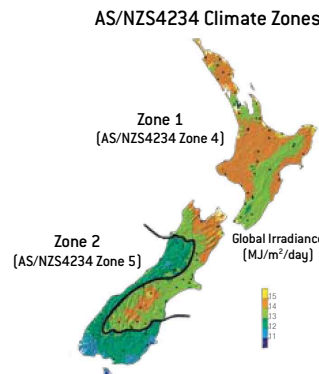
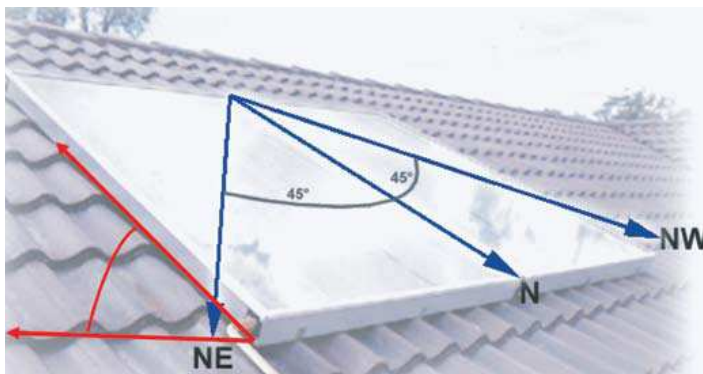
Auckland	20°	Hamilton	22°	Wellington	25°
Christchurch	30°	Dunedin	35°	Invercargill	37°

**BOOST SPECIFICATIONS**

Electric Supply Voltage	Volts 220-250
Available in 3.6kW (15 amp)	
Gas Input	MJ / hr 199
Available in Natural Gas and LPG	

**SOLAR READY STORAGE TANKS – NON-COILED**

Model	A51127007	A51134007	A51143007
Boost Volume (L) 3.6kW Element	160	200	285
Height x Width (mm)	1395 x 678	1640 x 678	1836 x 726
Weight (kg)	70	87	115



## ON-TAP SERIES

Specifications	Model	TB		CHILLER	
		Filtered Boiling & Drinking Water Unit		Filtered Chilled Water Unit	
Specification Code		TB3	TB5	CH3	CH6
Capacity	Litres (L)	3	5	3	6
Cups Initial	Cups <sup>1</sup>	24	31	15	30
Litres Initial	Litres (L)	4	5	3	6
Cups One Hour	Cups <sup>1</sup>	145	170	125	175
Approx Weight Empty	Kg	12	12	13	16
Approx Weight Full	Kg	18	18	16	22
Min. Water Supply Pressure	kPa	100	100	-	-
Max Water Supply Pressure	kPa	1000	1000	-	-
Input	kW	1.5	1.8	0.28	0.38
Electrical Connections	Supplied with 10 Amp 3 Pin Plug and flex				Powered by TB and TBH
Plumbing Connections	Cold Water	1/2" BSPF	1/2" BSPF	1/4" John Guest	
Dimensions					
A Width	mm	175	175	280	300
B Depth	mm	450	450	410	450
C Height	mm	405	405	320	405

<sup>1</sup>Cup size for boiling water 170 ml. Cup size for chilled water 200 ml. Materials and specifications are subject to change without notice due to ongoing product improvements.

