

# Rinnai

## Electric Boosted Solar



### Rinnai Prestige Electric Boosted Solar Systems

Rinnai draws from the expertise of over 70 years experience in designing and manufacturing Hot Water Systems. This allows us to give you a refined range of the most highly efficient quality choices available.

#### Rinnai Prestige offers:

- Highest quality Stainless Steel
- Commercial grade construction
- Environmentally friendly alternative
- No sacrificial anodes required
- Reduced maintenance costs
- Tanks exceed the Minimum Energy Performance Standard (MEPS)
- High STCs awarded for each system
- High efficiency collectors to absorb the maximum available solar energy
- Minimised heat loss and maximised efficiency
- Manufactured in Australia, for our varying conditions with boosters from Japan



Experience Our Innovation

## Rinnai Electric Solar Hot Water Systems

### Close Coupled Systems

A close coupled system is where the Storage Cylinder and the Solar Collectors are coupled together and the installation is on the roof.

Rinnai Close Coupled Solar Systems use the thermo-syphoning principle (I.e. hot water rises because it is less dense) to circulate the water through the Collectors and then to the Storage Cylinder without the need for a pump.

Supplementary heating from the electric element will generally turn on overnight to bring the water up to temperature if insufficient heat is available from the sun (such as during cloudy or rainy weather or during winter months).

#### Features

- Low heat loss due to greater insulation
- Supplied standard in Platinum Grey or Silver Prestige colour
- Wide range of Colorbond® colours. Ask your Rinnai Solar consultant for the full colour selection
- Various electric element sizes available. Most popular are 2.4kW and 3.6kW

#### Benefits

- Technically very efficient, economical to install and low maintenance
- No recirculating pumps and pipe runs – reducing heat losses and improving running efficiencies
- No electricity required to operate pumps to recirculate the water through the collectors
- Space saving in that it eliminates the need for a storage tank at ground level – ideal for courtyard homes or small blocks



### Split Systems

A split system is where the Storage Cylinder and the Solar Collectors are split and installed separately.

A solar control unit ensures the water circulates via a pump between the Solar Collectors and the Storage Cylinder. This transfers heat from the Collectors to the water in the cylinder if enough heat is available from the sun. The electric element will boost the water stored in the Cylinder overnight if necessary.

#### Features

- Rinnai Prestige improved insulation levels
- Streamlined appearance - minimal impact on the aesthetics of your roofline with only the Collectors visible
- 3 Element positions available, bottom, middle and twin element

#### Benefits

- Easy installation on rooves
- Split Systems do not require reinforcement of the roof structure, as the weight associated with water storage is at ground level
- Split System Cylinder can be installed internally or externally
- Collectors and the Cylinder do not need to be installed at the same time
- Ideal system for construction of new homes and major renovations



## Solar Collectors

### Excelsior Solar Collectors

- Highly efficient all copper Collector with a selective surface maximising energy absorption from the sun
- 10 Riser tubes per panel for effective transfer of the solar energy to heat the water
- Full aluminium casing for corrosion resistance
- Also available in a Frost Tolerant (FTC) for temperatures down to -6°C



### E-Frost Solar Collectors

- Exclusive Rinnai patented technology delivering true protection against frost and freezing
- Suitable and warranted for operating temperatures down to -12°C
- Designed for Rinnai Split System solar hot water heaters – not compatible with Close Coupled Systems
- Mandatory installation in areas nominated by Post Code in NSW, VIC & ACT. Ask your Rinnai Solar Specialist or see [rinnai.com.au](http://rinnai.com.au)



## Solar Rebates

### Government Rebates

The Australian Greenhouse Office awards Small Scale Technology Certificates (STCs) formerly known as RECs, according to how much energy each Rinnai Solar system saves compared with a conventional electric water heater. The Federal Government legislation states that STCs are applicable when a solar system is installed in a new home or replaces an existing hot water system.

### STCs and Rinnai Solar Systems

Rinnai offer the following popular combinations, however, if your particular system is not shown, please ask your Rinnai Solar Specialist who can further advise.

Rinnai Prestige				STC Zones Excelsior and Excelsior FTC <sup>(2)</sup>				STC Zones E-Frost collectors <sup>(2)</sup>				
Description	Size	Booster	Collectors	1	2	3	4	1	2	3	4	
Split System Electric	System F	250	3.6 kW	2	26	27	25	21	16	17	16	14
	System FM <sup>(1)</sup>	250	3.6 kW	2	36	41	35	32	29	31	28	26
	System G	315	3.6 kW	2	26	27	24	22	24	25	22	19
	System GM <sup>(1)</sup>	315	3.6 kW	2	30	32	31	28	28	30	27	25
	System H	315	3.6 kW	3	28	29	28	25	27	28	26	23
	System HM <sup>(1)</sup>	315	3.6 kW	3	42	45	42	38	39	42	38	33
Close Coupled Electric	System I	180	3.6 kW	1	19	20	19	17	Not available for use with close coupled systems			
	System J	330	2.4 kW	2	40	43	39	34				
	System K	330	3.6 kW	2	40	43	39	34				

(1) Systems have mid element position. All other systems have bottom element position. (2) STCs are subject to change. See [www.cleanenergyregulator.gov.au](http://www.cleanenergyregulator.gov.au) for conditions and qualifications.

#### HANDY HINT

You may also be eligible for State Government rebates. To assist with the eligibility and calculation of rebates, we have produced an online calculator. Simply go to [rinnai.com.au](http://rinnai.com.au) and click on the Solar Rebate Estimator icon.

## The Environment

Electric Boosted Solar Hot Water has substantial benefits and assists with the reduction of our carbon footprint. Solar systems are awarded Renewable Energy Certificates (STCs) based on measured environmental savings. Electric boosted systems show considerable savings and are awarded high STCs. Rinnai systems have amongst the highest STCs in the industry.

BY THE WAY

**Rinnai also offer Gas boosting as an alternative to Electric Systems. LPG boosters are available in area's where Natural Gas is not available. Ask your Rinnai Solar Specialist about the benefits of a Gas boosted system.**

Solar hot water warranty		Solar compatible Continuous Flow water heaters Models S20 and S26 and other models converted by Rinnai for Solar applications <sup>(1)(3)</sup>		Storage cylinder Prestige Stainless Steel range	Solar collectors Excelsior & E-Frost	Components <sup>(2)(5)</sup>
		Heat exchanger	All other components			
Domestic use	Parts	10 Years	3 Years <sup>(4)</sup>	10 Years	7 Years	1 Year <sup>(4)(5)</sup>
	Labour	3 Years	3 Years	3 Years	1 Year	1 Year
Commercial use	Parts	5 Years	1 Year	5 Years	5 years	1 Year
	Labour	1 Year	1 Year	1 Year	1 Year	1 Year

(1) The continuous flow models in this column are suitable only for solar hot water applications. Any failure or service issue when installed in a non solar hot water application is not covered by warranty. (2) Components include pumps, system controllers, sensors, thermostats, valves, electric heating elements and anodes where applicable. (3) Some other models can be converted for solar applications by Rinnai by order request. (4) For Victorian installations only - 5 year warranty on the solar circulating pump, solar controller and components within the continuous flow water heater in order to comply with State legislation where applicable. (5) For Queensland installations only - 2 Year warranty on the solar circulating pump in order to comply with State legislation where applicable.

### Please note:

For full definitions of Domestic and Commercial use, along with the full warranty conditions and exclusions, please refer to [rinnai.com.au](http://rinnai.com.au)  
Rinnai Australia Pty Ltd reserves the right to make modifications and change specifications without notice.



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For further information visit

[www.rinnai.com.au](http://www.rinnai.com.au) or call 1300 555 545

### Dealer Details