

**Solar Hot Water -  
Naturally the smarter choice**



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## Conergy solar hot water systems: The smarter choice, whatever the weather.

The benefits of solar heating are well known – energy from the sun costs nothing, meaning you can obtain as much as 90% of your hot water requirements for free! And while you're reducing your power bill, you're helping the environment.

As one of the world's largest renewable energy technology companies, Conergy offers state of the art technology and world class design. Our systems are built to withstand the harshest conditions and represent new levels of efficiency, cost saving and reliable hot water, all year round.

The highest quality materials and compliance with rigorous international standards, including AS/NZS 2712, assure exceptional performance and a longer operating life than a conventional electric hot water system.

By choosing a Conergy solar water heater, you are not only slashing your energy bills, but helping the environment as well.

With all these benefits, Conergy hot water systems really are the smarter choice in heating your water - naturally.

### Conergy TS Series

Simple and innovative design are the key to our TS series product. Our world leading systems offer a breakthrough in thermosiphon water heating via a complete and compact close coupled on-roof unit with no moving parts.

In the open circuit model, water is circulated through the system using the principle of convection, whereby hot water rises up through the collectors into the tank and is replaced by cold water in a continuous cycle. The closed circuit system is designed for frost-prone and poor water quality areas. In this system, a special solar transfer fluid circulates through the system which transfers the heat to the water via a heat exchange system.



### Conergy AS Series

Active Systems (AS) - also known as Split Systems - are usually installed when visual impact is to be kept to a minimum or the roof structure is not able to hold a tank. Our AS system is a high efficiency solar water heater with roof mounted collectors and a ground standing storage tank.

In the open circuit system, water is circulated between tank and collectors by a small pump which is regulated by our world leading Smart Controller. This measures the temperature difference between the water temperature in the collectors and the tank and optimises the solar energy collected. In the closed circuit system, special solar transfer fluid is circulated through the system. The heat is transferred to the water via a heat exchange module.



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## Quality in design and manufacture:

Our durable systems are Australian designed to last and deliver piping hot water, all year round.

### TS Tanks (Roof mounted)

Our vitreous enamel TS tanks are available in 180 and 300 litre models and deliver the highest levels of efficiency. The durable Colorbond® and polypropylene casing is built to withstand the elements and deliver high efficiency. Conergy TS tanks have proven themselves thousands of times over in the most varying climatic conditions, from desert to icy cold weather conditions.

The **TS Plus** stainless steel tank is Conergy's premium TS tank model and is available in a 300 litre size, complete with a thermosiphon arrestor valve and tempering valve as standard.

All tanks come with electric boosting as standard, but an instantaneous gas boosting option is available. Freeze protected closed circuit models are available for frost-prone and poor water quality areas.

### AS Tanks (Split System)

Our vertical tanks are built rugged to the highest specifications to ensure a long service life. AS tank systems are available in 250, 315 and 400 litre models, depending on your hot water requirements.

The tank's industry leading, innovative Smart Controller ensures that temperature levels between the water in the collectors and the tank are constantly optimised, meaning you will always have hot water available when you need it.

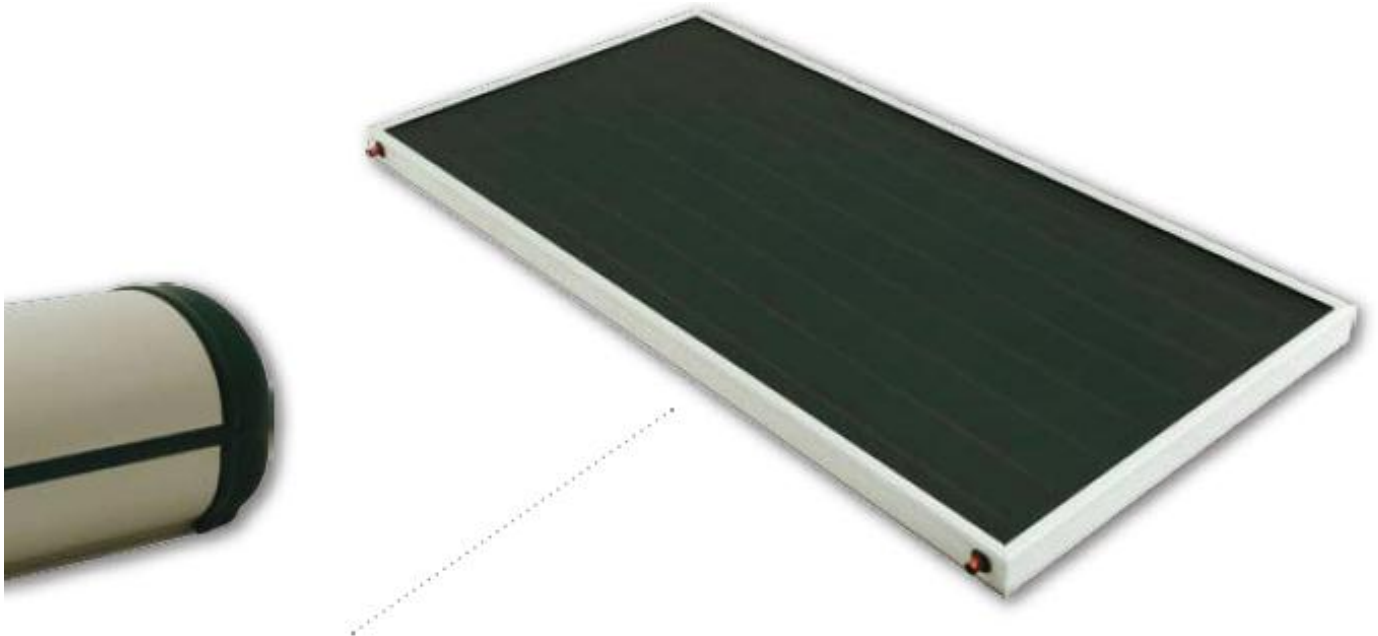
The Conergy AS tank comes with an electric booster element as standard. This is mounted at the centre of the tank, ensuring that even on colder days there will always be sufficient hot water available. A gas boosting option is also available, in which case the electric element is not required.

Freeze protected closed circuit models are also available for frost-prone and poor water quality areas.



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### Flat plate collectors

Conergy systems come with a range of solar flat plate collector options to suit the widest range of applications and climatic conditions. Whether you live in a high or low solar radiation area, or require panels specifically suited to coastal conditions, we have the right panel for the job.

Our range includes the following collector models:

- | **E20BC** - black chrome absorber surface with aluminium tray for extra high efficiency in low and medium solar radiation areas
- | **E25BC** - black chrome absorber surface with aluminium tray for extra high efficiency in low and medium solar radiation areas. 25% additional absorber surface area for even higher performance.
- | **F20LC** - lacquer coated absorber surface with zinc alumne tray for higher solar radiation areas
- | **E20SB** - semi selective absorber surface with aluminium tray for higher solar radiation areas in coastal/ salted regions

Your Conergy partner will be happy to advise you on which panel type best suits your needs and local conditions, ensuring you get the best performance possible out of your Conergy system.



## Rebates and incentives:

Independently rated with superior efficiency - good for your pocket and good for the planet.

Considerable rebates are available for installing a Conergy solar water heater. These come in the form of Government, as well as Renewable Energy Certificate (also known as REC) rebates.

Generous Federal Government rebates are currently available if you upgrade an existing electric water heater to a Conergy solar water heater. Some State Governments also offer additional rebates, bringing the system cost down even further.

If you are not upgrading from an electric water heater, you will still be eligible for the considerable REC rebates scored by your Conergy solar hot water system. The REC value of a solar hot water system is determined by the Office of the Renewable Energy Regulator (ORER) and is an independent efficiency rating system. Conergy systems score some of the highest REC values compared to competitor models, so switching to Conergy is the right choice for you and the environment!

The table below shows some of the typical REC values scored by our systems in the various REC rating zones.



The Conergy Difference - some typical examples of Conergy's high efficiency systems and associated REC values.

| Model   | Household  | REC Zone 1 | REC Zone 2 | REC Zone 3 | REC Zone 4 |
|---|------------|------------|------------|------------|------------|
| TS 180 l gas boost, open, 1 x E25 BC collector        | 1-2 person | 28         | 28         | 28         | 24         |
| TS 180 electric boost, open, 1 x E25 BC collector     | 1-2 person | 20         | 20         | 20         | 16         |
| TS 300 l gas boost, open/closed, 3 x E20 BC collector | 4-6 person | 46         | 46         | 46         | 41         |
| TS 300 l electric boost, open, 3 x E20 BC collector   | 2-4 person | 36         | 24         | 36         | 32         |
| AS 400 l gas boost, open, 3 x F20 LC collector        | 4+ person  | 46         | 46         | 46         | 41         |
| AS 400 l electric boost, open, 3 x E20 BC collector   | 4+ person  | 44         | 44         | 44         | 37         |

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## Technical information

### Conergy Flat Plate Collectors

|                                      | E20 BC             | E25 BC             | F20 LC             | E20 SB             |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Collector dimensions (h x w x l /mm) | 2,000 x 1,000 x 80 | 2,000 x 1,235 x 80 | 1,938 x 1,025 x 80 | 2,000 x 1,000 x 80 |
| Collector area (m <sup>2</sup> )     | 2.00               | 2.47               | 1.98               | 2.00               |
| Aperture area (m <sup>2</sup> )      | 1.84               | 2.29               | 1.87               | 1.84               |
| Collector weight, empty / full (kg)  | 29.5 / 31.2        | 36.0 / 38.0        | 42.0 / 44.9        | 29.5 / 31.2        |
| Collector case material              | Aluminium          | Aluminium          | Zinc Alumel        | Aluminium          |

### Conergy TS Tanks

|   | TS 180 litre<br>(open circuit) | TS 180 litre<br>(closed circuit) | TS 300 litre<br>(open circuit) | TS 300 litre<br>(closed circuit) | TS Plus 300 litre<br>(open circuit only) |
|---|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--|
| Storage capacity (L)                    | 175                            | 175                              | 297                            | 297                              | 297                                      |
| Tank weight, empty / full (kg)          | 54 / 229                       | 69 / 244                         | 87 / 384                       | 108 / 405                        | 71 / 368                                 |
| Tank dimensions (w x h x l /mm)         | 650 x 600 x 1,350              | 650 x 600 x 1,350                | 650 x 600 x 2,150              | 650 x 600 x 2,150                | 650 x 600 x 2,150                        |
| Boost capacity, electric / gas (L/min)* | 80 / 24                        | 80 / 24                          | 140 / 24                       | 140 / 24                         | 140 / 24                                 |
| Booster element rating 220/250V (kW)*   | 2.4                            | 2.4                              | 2.4                            | 2.4                              | 2.4                                      |
| Storage tank material                   | Mild steel                     | Mild steel                       | Mild steel                     | Mild steel                       | Stainless steel                          |
| Storage tank insulation                 | EPU**                          | EPU**                            | EPU**                          | EPU**                            | EPU**                                    |
| Solar energy transfer medium            | Water                          | Glycol solution                  | Water                          | Glycol solution                  | Water                                    |

### Conergy AS Tanks

|   | AS 250 litre<br>(open circuit) | AS 250 litre<br>(closed circuit) | AS 315 litre<br>(open circuit) | AS 315 litre<br>(closed circuit) | AS 400 litre<br>(open circuit) | AS 400 litre<br>(closed circuit) |
|---|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|----------------------------------|
| Storage capacity (L)                    | 259                            | 259                              | 334                            | 334                              | 425                            | 425                              |
| Tank weight, empty / full (kg)          | 90 / 349                       | 90 / 349                         | 105 / 439                      | 105 / 439                        | 116 / 541                      | 116 / 541                        |
| Tank dimensions (w x h x l /mm)         | 625 x 1,450 x 625              | 625 x 1,450 x 625                | 625 x 1,760 x 625              | 625 x 1,760 x 625                | 710 x 1,710 x 710              | 710 x 1,710 x 710                |
| Boost capacity, electric / gas (L/min)* | 161 / 24                       | 75 / 24                          | 187.5 / 24                     | 75 / 24                          | 253.5 / 24                     | 90 / 24                          |
| Booster element rating 220/250V (kW)*   | 3.6                            | 3.6                              | 3.6                            | 3.6                              | 3.6                            | 3.6                              |
| Storage tank material                   | Mild steel                     | Mild steel                       | Mild steel                     | Mild steel                       | Mild steel                     | Mild steel                       |
| Storage tank insulation                 | EPU**                          | EPU**                            | EPU**                          | EPU**                            | EPU**                          | EPU**                            |
| Solar energy transfer medium            | Water                          | Glycol solution                  | Water                          | Glycol solution                  | Water                          | Glycol solution                  |

\* Alternative ratings available upon request

\*\* Expanded polyurethane (CFC free)



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