



Siddons Solarstream

always in hot water... with nature's help

HEAT PUMPS WATER HEATERS

- Save 75% on hot water energy costs
- Superior performance day and night
- Long life stainless steel water tank
- Helps reduce greenhouse gas emissions
- Lightweight, easy to transport and install
- No unsightly solar equipment on roof
- No electric heating elements
- Enquire about Government rebates



Siddons Solarstream Hot Water...IT'S PART OF OUR DAY

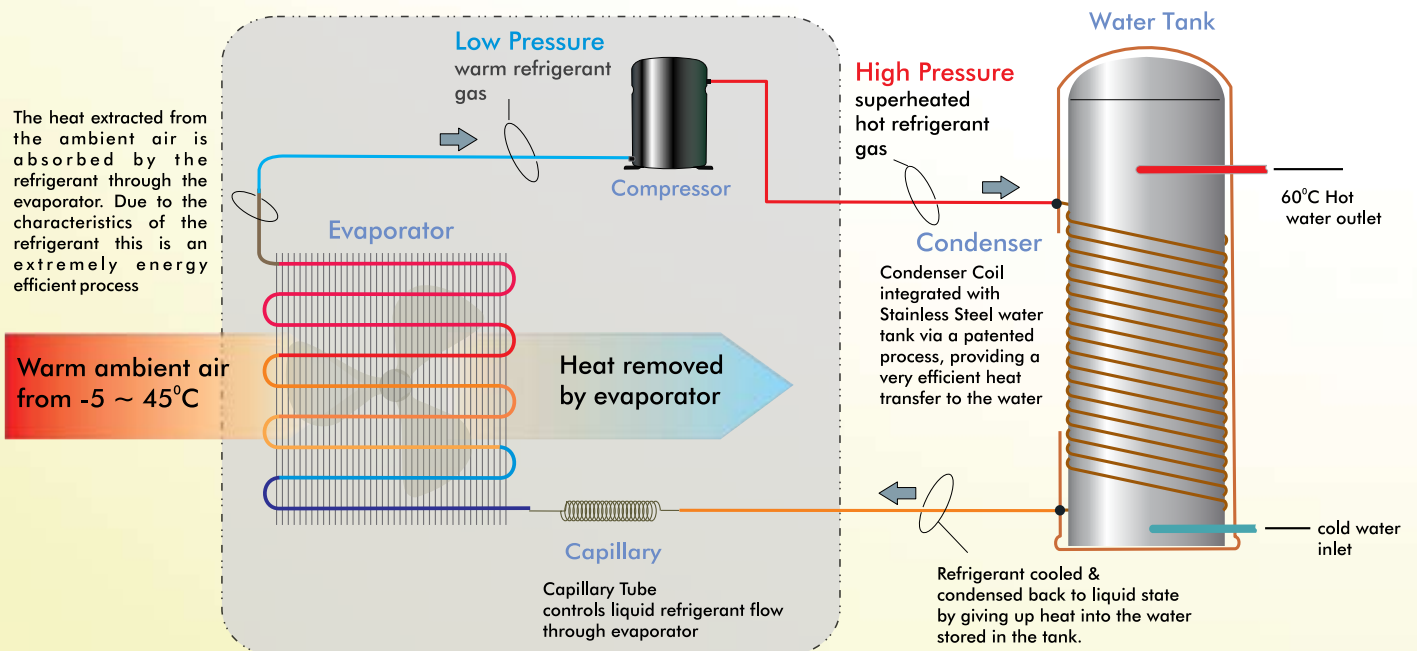
There is something magical about the feeling of water from a hot shower to start the day. In our homes, we use thousands of litres of hot water each year but the cost of electricity or gas to heat this water is often 30~40% of the home energy costs. No other single appliance costs more to run than our electric hot water heater. With the world's resources declining and the move to renewable energy resources increasing, better managing the cost of domestic hot water is something we all need to do now.

During winter and rainy seasons, the family demand for comforting hot water significantly increases, often doubling in demand. This is where the Solarstream is without compromise. No matter what the weather; clouds, rain, snow, wind or gale force blast, the Solarstream maintains solid performance, saving you relatively more than any other system.



HOW IT WORKS

Simple things and technology often work best and so it is here. Using the proven principles of refrigeration and air conditioning, heat from the air (warmed by the sun) is absorbed into the gas within the evaporator outdoor unit, compressed to super heat and then is transferred to the water storage cylinder via the condenser coil.



WHY IS IT SO EFFICIENT?

Heat pump technology has been used in air conditioning globally for more than 50 years and the technology is well proven. The Solarstream Heat Pump Water Heater, is the result of over 20 years' market development and is now at the leading edge in terms of longevity and efficiency in all weather conditions. The system uses a high performance, ozone friendly refrigerant and a patented "direct transfer" technology to transfer the heat from the air to the water. The Heat Pump also incorporates a number of leading design features including de-icing the evaporator fins in very cold conditions, cooling the compressor in very hot conditions and a safety shut-off switch to protect the compressor in the event of any operational problems.



PERFORMANCE AND SAVINGS

Right from the minute you switch on the Solarstream, your savings begin. Exhaustive tests have shown that savings in hot water energy costs of greater than 75% are consistently achieved. In ambient air of 20°C, the Solarstream can heat 327 litres of water from cold up to 50°C in just over 2 hours, and 60°C in just over 3 hours using less than 4kWh (around 50 cents) and drawing just 4 amps. In comparison with a standard electric water heater, this would use four times as much power. For maximum demand, the Solarstream can continuously produce over a 100 litres of hot water per hour. This makes a Solarstream Heat Pump System a very smart choice for homes fitted with spa baths or large soak tubs.

Siddons Solarstream water heaters will operate on off-peak and day tariff control, so your hot water is never switched off when you need it most, on those cold winter nights. Due to the low running cost and simplicity of installation, cost recovery for an average family is around 3-6 years.

LONGEVITY AND RELIABILITY

The Siddons philosophy of creating the best products to meet the demands of the most discerning home owner is borne out by the unsurpassed quality of the water storage cylinder. This is constructed from marine grade 316 stainless steel, then fully foam insulated and encased in a very tough polymer casing which will withstand the outdoor environment as well as the requirements of transport, installation, and possible knocks and bumps.

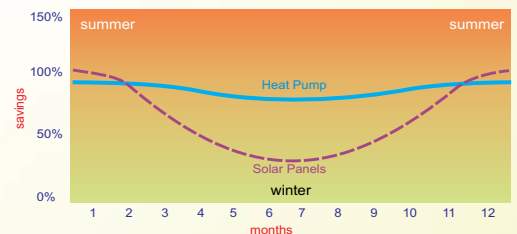
With a typical heat loss of just 2°C in 24hrs, energy wastage is minimal, giving you more hot water for longer. The stainless steel cylinder eliminates the need for a sacrificial anode and the risk of rust or other contaminants, creating cleaner, fresher and longer lasting hot water. Backing up this quality is a ten year water cylinder warranty.



A COMPARISON WITH SOLAR PANELS

The Siddons Solarstream offers considerable advantages over Solar Panels:

- Around 50% cheaper to install
- No excessive weight on the roof and building structure to be considered
- No large intrusive and often unsightly panels to consider or position
- Exposure to the sun is not required (it uses heat from the air)
- The water tank is fully insulated and corrosion resistant
- No electric booster element is required
- The Solarstream works efficiently day and night, winter or summer



The chart depicts the comparative energy savings of the Solarstream compared to a conventional flat plate solar collector. Example of performance during cooler months is subject to environmental conditions, country and regions. Because the Solarstream has excellent performance in the cooler months, energy savings are greatest when you use hot water most.

FEATURES OF SIDDONS SOLARSTREAM

The Solarstream System has been developed using a split heat pump and hot water cylinder. The two separate parts have been designed to optimise every performance aspect together with easy installation and flexibility. For instance, you can install the water cylinder inside if you wish, whilst the Heat Pump can be installed outside and up to nine metres apart.

The Heat Pump Unit - features

- Low power consumption (1400 watts)
- Whisper quiet operation
- Environmentally friendly R417A refrigerant
- Extra large evaporator coil area
- Highest quality, low energy Toshiba compressor
- Outdoor, weather resistant construction
- Safety cutout protection
- Pre-charged hoses and fittings for easy installation
- De-ice system for very cold weather
- Compressor cooling for very hot weather

The Hot Water Cylinder - features

- Mains pressure rated
- 316 marine grade stainless steel water cylinder
- Fully insulated in high density foam core (for minimal heat loss)
- Fully enclosed in super tough moulded polymeric outer casing
- Safety pressure & temperature relief valve
- IP rated, water proof connection covers
- Two size options 327 ltr & 264 ltr
- 10 Year Warranty on water cylinder
- Light weight (just 73Kg empty) for easy handling

INSTALLATION INFORMATION

Installation must be carried out by a qualified Plumber in strict accordance with Australian & NZ Standards along with all relative and specific Codes of Practice.

There is no requirement to have a specialist refrigeration engineer install these units. The refrigeration system and copper connecting lines are pre-charged with refrigerant. Additional refrigerant gas is not required. Installation manuals are supplied and can be downloaded from our website prior to installation.

It is important to note, the Heat Pump unit is supplied as standard with two metre pre-charged connecting lines. An extension pre-charged connecting line kit may be required depending on installation and the best positioning of the units. These kits come complete with matching length thermostat connection cables.

EXTENTION LINE KITS

1.5 mtr	code	150SSBX
3.0 mtr	code	300SSBX
5.0 mtr	code	500SSBX
7.0 mtr	code	700SSBX

AUSTRALIA - RENEWABLE ENERGY CERTIFICATES

A Renewable Energy Certificate (REC) is the equivalent of one megawatt hour of renewable energy generation. The amount of the REC rebate depends on the performance of your water heater over a ten year period. The high performing Siddons Solarstream Water Heater attracts a large number of REC's which can be traded for a cash rebate. Please check our website or enquire about the current market price per REC.

Model	Description	Zone 1	Zone 2	Zone 3	Zone 4
264SSBD	264 litre tank domestic	30	26	30	31
327SSAD	327 litre tank domestic	29	25	29	30

The Table depicts the number of RECs registered by the Australian Federal Government (Office of the Renewable Energy Regulator) for Siddons Solarstream product models.

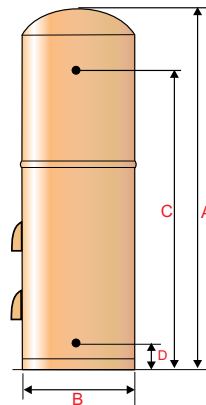
LEGEND: Zone 1 - Northern Australia; Zone 2 - Central Australia; Zone 3 - Southern QLD, NSW, WA, SA; Zone 4 - VIC, TAS.

NEW ZEALAND

For Government assistance and installation subsidies, visit the EECA Energy Efficiency and Conservation Authority web site: www.eeca.govt.nz/solar

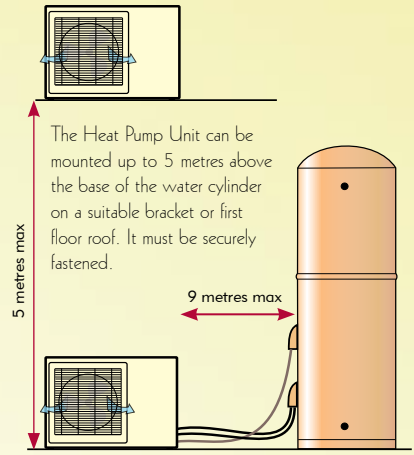
HEAT PUMP SPECIFICATIONS

230~240 V, AC, 50 Hz, 1.38 Kw
 Supplied with 3pin 10 amp Plug
 Weight 39 kg
 Sound level 53dBa
 Operational temp range -5° ~ 45°C
 Diameter of airflow outlet 400mm
 Refrigerant R417A
 Size L,795mm W,255mm H, 540mm

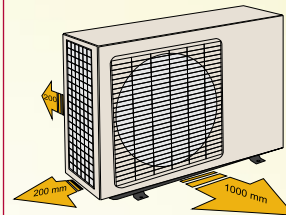


CYLINDER SPECIFICATIONS

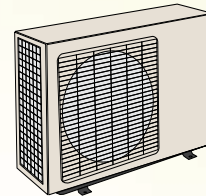
	327SSAD	264SSBD
CAPACITY	327 Litres	264 Litres
A HEIGHT	1980 mm	1620 mm
B DIAMETER	580 mm	580 mm
C HOT WATER OUTLET	1491 mm	1136mm
D COLD WATER INLET	168 mm	168mm
DRY WEIGHT	73 Kg	62 Kg
MAXIMUM INLET WATER PRESSURE	500 kPa	500 kPa
WATER CONNECTIONS	20 mm ~ 3/4" BSP	
PRESURE & TEMPERATURE VALVE		850 kPa



The Heat Pump Unit can be mounted up to 5 metres above the base of the water cylinder on a suitable bracket or first floor roof. It must be securely fastened.
 The Heat Pump Unit is supplied with 2 metres of pre-charged connecting lines. Additional kits of up to 7 metres of pre-charged and insulated tubes are available depending on installation.



The Heat Pump outdoor unit needs clear air space on the front, back and lefthand side as shown.



The installed position of the Heat Pump outdoor unit is not critical, however it should ideally be placed in a dry area with good ambient warmth.

Hot water heating rate @ 20° C ambient = 100 litres / hr



Domestic Installation Warranty	10 Years on Water Tank 4 Years on Heat Pump Compressor 3 Years on Heat Pump parts 1 Years on Thermostat and P&T valve
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Available from: