

Heatseeker

Solar Pool Heating

User Manual



**Supreme
Heating**

Our Innovation. Your Lifestyle.



Solar Pool Heating
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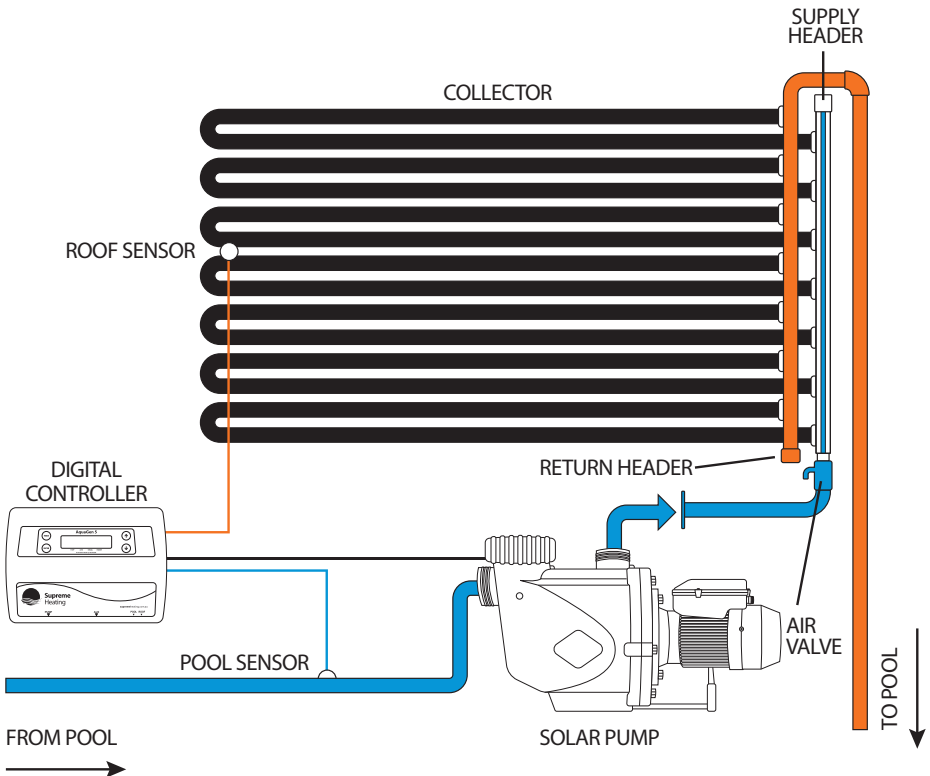
General Information

Introduction to Heatseeker Solar Pool Heating

Solar heating installed on a pool will give you a swimming season of 6 - 9 months depending on where you are situated in Australia. This is approximately double an unheated pool swimming season. The pool is heated by circulating water through the solar collector where it absorbs the sun's energy.

Solar systems normally incorporate a separate pump and automatic controller to maximise heat gain and can be fitted to existing pools. With proper maintenance, your solar pool heating system should provide many years of trouble-free service.

- Higher efficiency to allow optimum heat gain
- Quality products for added strength and durability
- Innovative products to achieve maximum aesthetic appeal and to maintain property value
- Easy operation and low maintenance
- Supports local economy



Installation and Connection

Safety



Falls from heights can result in serious injury or death

Full attention must be paid to safe working practices at all times. Solar heating systems are usually installed on an elevated structure and unless you have the appropriate safety equipment for working at heights, you should employ someone with experience and equipment to complete the installation for you.

Solar Location

When choosing the appropriate roof to position the solar collectors, the following important things need to be considered:

1. Roof Orientation

The ideal roof in the Southern hemisphere varies slightly depending on location but as a rule of thumb a North, West or flat roof is acceptable.

2. Shade

Try to avoid positioning the solar collectors on a roof that is going to be shaded heavily throughout the day. The best solar gains are made three hours either side of solar noon, 9am - 3pm or 10am - 4pm during day light savings for a North facing roof. Shading outside these hours will have minimal effect on the overall performance.

If they are going to be shaded at some time during the day, then a larger collector can be fitted to compensate.

3. Position Solar Close to Pool Equipment

Shorter pipe runs require less pumping power and reduce installation costs. Long runs up to 50 metres have minimal effects on solar performance.

4. Size Of Roof

Will the solar system fit on the roof? This has to be established from the ground or a ladder with OH & S Regulations preventing access to the roof without a harness or rail system. A quick measurement in most cases can be taken at ground level.

Controller Operation

Controlling your solar system may no longer be a daily chore.

Supreme Heating has combined the latest technology, together with user friendly concepts in the development of our extensive range of automatic controllers.

AquaGen 5 Operating Instructions

The AquaGen 5 is a premium range of automatic solar controllers with temperature adjustment, heating, manual and standby mode features.



Aqua-Gen 5



Aqua-Gen 5BR



Aqua-Gen 5PV

To determine what model controller you have, please refer to your quotation, invoice or the model number can be found near the display screen of the unit.

For operating instructions on our entire controller range, please refer to our website supremeheating.com.au

LCD Screen

The LCD screen displays the pool and roof temperatures, solar temperature limit, pump on status, on/off/locked-out status and the time of day & date (clock).

LCD Indicators

There are arrow icons on the LCD screen that point to current mode text on the label.

Mode Button

Pressing this button changes to the next mode of operation in the following order; Heating / Manual / Standby.

Once the mode button is no longer being pushed then the selected mode of operation is automatically saved.

Heating mode (Auto) is the normal operating mode for heating the pool.

Manual mode is for testing the pump installation on a cold or cloudy day. Once manual mode is selected the pump will start. After manual mode time-outs, unit will return to the previous mode.

Standby mode of operation is for off-season maintenance or if pool heating is not required. This is a better option than turning off the controller as it will flush treated pool water through the solar system as well as prolong pump bearing and mechanical seal life. The pump will run for 3 minutes each day at 10am.



The factory default for SOLAR MODE is Heating MODE

Temperature Setting (Up and Down Buttons)



Adjusting the temperature limit will allow the controller to heat the pool until the temperature limit $+\frac{1}{2}^{\circ}\text{C}$ is achieved. Heating will then remain off until the sample wait period expires, if no sample wait period is active the heating will remain off until the pool temperature drops $\frac{1}{2}^{\circ}\text{C}$ below the temperature limit setting. Due to rounding the actual heat may vary by up to $\pm\frac{1}{2}^{\circ}\text{C}$.

The ability to solar heat the pool will depend on weather conditions.






The factory default for SOL. LIMIT is 30°C

Enter Button

Pressing the  button will turn on the LCD backlight, pressing the  button while the backlight is lit will enter the SETTINGS MENU;

The following will be displayed; 1) EXIT

The menu system can be navigated using the  or  buttons, all selectable and changeable values will flash on the LCD screen. Press the  button to accept the currently displayed (flashing) item.

All menu items are shown below;

- 1) EXIT
- 2) CLOCK
- 3) SYSTEM

1) EXIT

Press  on this menu to return to automatic operation.


2) CLOCK

When selecting the clock you will have to set the time of day. Set hours then minutes.

3) SYSTEM

System sub-menu;

- EXIT
- COOLING
- LCD TIME
- HOURS

SYSTEM SUB-MENU	
EXIT	Press  on this menu to return to automatic operation.
COOLING	For situations where the pool water overheats beyond the set temperature limit due to direct heating from the sun. NOTE that heating & cooling is only allowed during the allowable time if solar run hours have been selected
LCD TIME	Adjust the number of seconds the backlight remains on after the time a button was pressed. (Select NONE for always on.)
HOURS	For hours of solar operation (24hr Clock) First selecting the start time in hour intervals (6:00 – 12:00) Then the end time (12:00 – 21:00) Factory default for installer setup is run from 12:00-12:00 (24hrs).

Controller Troubleshooting

No Power To The Display

FAULT	REASONS/SOLUTIONS
NO POWER TO THE DISPLAY	Power point is faulty; test power point with known working appliance. If the power point is operational, check the controller with another power point and if there is still no display, then send the controller for repair.

Pipe/Roof Sensor Faults

The following are error messages caused by pool or roof sensor faults;

FAULT	REASONS/SOLUTIONS
SENSOR DISCONNECTED	Sensor cable unplugged from controller, cable damaged, bad cable join.
SENSOR SHORT CIRCUIT	Sensor cable damaged, bad cable join.
ISOLATING SENSOR FAULTS	<p>Swap the sensor locations; simply put the pipe sensor in the roof socket and the roof sensor in the pipe socket.</p> <p>If the fault moves from pipe to roof or vice versa, then you can be certain that there is a sensor fault. If the fault remains the same then the controller will need repair.</p> <p>For sensor disconnected or short circuit faults, check for damage to the cable and repair if required. If no damage can be found, replace the sensor. If the cable runs underground or inspection is not possible, then cut the sensor from near the end of the cable and strip back the wires and join them. If the controller reports a short circuit, then the cable is fine and you may replace the sensor end if re-routing a new cable is not possible.</p> <p>If the controller reports a short circuit while the cable is unplugged, then the controller requires repair.</p>

Pump Faults

Ensure the controller has working sensors; otherwise the pump will not operate.

FAULT	REASONS/SOLUTIONS
PUMP WILL NOT START	The pump will only ever run for the purpose of automatic heating if the pool is below the temperature limit and solar conditions can provide heating. The pump may also run for a flush in standby mode or for manual mode operation. If the controller reports that the pump is off, then press select to enable manual mode. The relay inside should click and the pump should operate. If the pump does not operate, then plug the pump into a power point and test operation. If the pump is okay, then the controller requires repair.
PUMP WILL NOT STOP	Turn off power to the controller and ensure the pump stops. If the pump continues to operate, then unplug it from the power point and connect it to the 240V socket marked PUMP at the bottom of the controller. Apply power to the controller and if the pump starts instantaneously before temperatures are displayed, then there may be a fault with the controller. Since the controller shouldn't run when there is a sensor fault, disconnect the roof sensor and wait for approximately 30 seconds. If the pump continues to run, then the controller requires repair.
POOL NOT HEATING	If the controller has stopped pumping and is displaying a higher temperature than expected, it may be caused by a pump which is failing to prime. Check the pump and if necessary prime the pump as per the pump manufacturers' instructions then reset the controller by turning it off/on.
RTC-FAIL	This can occur if the unit has been turned off for a prolonged period of time. Leave the unit on for 30 seconds and this will allow charging of the supercapacitor. Next, turn it off for 30 seconds before turning it back on.

Installer Setup

TO ACCESS MENU PRESS ENTER AND SCROLL DOWN TO SYSTEM AND PRESS THE MODE BUTTON

WARNING PROFESSIONAL ONLY SETTINGS!

SYSTEM SUB-MENU	
RESTORE DEFAULTS	Restore back to factory defaults.
RUN	When the roof temperature rises to pool + RUN then the solar will start.
END	When the roof drops below pool + END then the solar will stop.
FRZ?	Anti freeze function, when switched to ON will start the pump when the roof temperature drops to the selected temperature and operates for 3 minutes every 30 minutes until the roof temperature rises above the selected temperature.
BOIL?	Anti boil function, when switched to ON will start the pump when the roof temperature rises to the selected temperature and operates for 5 minutes every 15 minutes until the roof temperature rises above the selected temperature. Switched to OFF and USE PIPE PROTECTION option will be offered.
PIPE PROTECTION	For use when Heatseeker UniPanels® cannot drain down and will require a wetted roof sensor for this mode.
CAL	Calibrate the pool sensor.

Additional Information

1. If any of the menu items are left unattended for 3 minutes the menu will time out and automatically save all settings and return to automatic operation.
2. If a sensor fault is detected the controller will display which sensor and what the fault is.
3. Should power be interrupted for any reason, the controller will resume normal operation when power is restored. All information will have been kept for up to 10 days.
4. If the controller has stopped pumping and is displaying a higher temperature than expected it may be caused by a pump which is failing to prime, check the pump and if necessary prime the pump as per the pump manufacturers' instructions then reset the controller by turning it off/on.
5. Maximum combined rated output load for the 240V socket(s) is 9.98 Amps / 2395 Watts.
6. Degree of protection against moisture: IP33.
7. Store pool chemicals at least 3 metres safely away from all pool equipment.
8. If the power cord is damaged, do not use the controller; return the unit to the supplier for repair.

Solar Pump Operation

At Supreme Heating we only use quality pumps for our solar installations. The pool plumbing configuration will determine what type of pump is used.



Warning! Hazardous Suction

Do not block water entry into filtration system with any part of your body as the pressure can trap hair or body parts, causing severe injury or death. Do not block suction. Turn off pump immediately if someone becomes trapped.



Do not use or operate swimming pools, spas or spa baths if a suction cover is broken, missing or loose. Small children using the pool or spa must **always** have close adult supervision.

SS Series Solar Pump Operating Instructions

A high performance, high head pump ideally suited for solar applications. The SS series pump is Supreme Heating's premier pump designed to operate at high pressures when high pressure is desired.

To determine which solar pump model you have, please refer to your quotation, invoice or the model number can be found on the product compliance plate.



For operating instructions on our entire pump range, please refer to our website supremeheating.com.au

Starting the Pump

To operate efficiently and to prevent damage to the pump there must be a free flow of water to and from the pump. Before starting ensure that:

- All pipe work is correctly sealed.
- The pool/spa water level is at the correct height.
- That all appropriate valves are open and there is nothing preventing the flow of water through the system.

STARTING THE SS SERIES SOLAR PUMP	
STEP 1	First prime the pump by removing the strainer basket lid and filling the strainer basket area with water. Replace the lid, ensuring that it seals on the large O-ring.
STEP 2	Connect to the power supply and switch on.
STEP 3	Allow the pump to run, so that any air trapped in the pipe work and pump may be expelled.
STEP 4	If prime is not established within approximately 2 minutes, as evidenced by a strong flow of water from the outlet, switch off the pump and repeat the procedure. Continued evidence of air under the hair and lint pot lid indicates an air leak in the suction pipe work, which should be rectified to avoid pump damage.

Pump Operation

For optimum pump performance, the strainer basket housing should always be full of water and free from air bubbles.

The water level of the pool should always be maintained to at least halfway up the skimmer box ensuring water is in the pump at all times. From time to time it may be necessary to re-prime the pump. This should be carried out as described above.

Water Quality

Maintaining balanced water chemistry is important to the life of your pump. Please consult your local pool shop regularly to have your water tested.

Emptying the Hair and Lint Pot

The hair and lint pot strainer basket should be inspected frequently through the transparent lid and emptied when a build-up of debris is evident. Use the following instructions to empty.

EMPTYING THE HAIR AND LINT POT	
STEP 1	Switch off pump.
STEP 2	Unscrew the hair and lint pot strainer basket lid anti-clockwise and remove.
STEP 3	Remove the hair and lint pot strainer basket by lifting upwards from its housing.
STEP 4	Empty the trapped debris from the basket. Hose out with water if necessary.
STEP 5	Check the hair and lint pot strainer basket for cracks and replace the strainer basket in the pump if okay.
STEP 6	Replace the lid and ensure that it seals on the large rubber O-ring. Firm hand tightness only is required. The O-ring & thread can be lubricated with silicone grease.

Solar Pump Troubleshooting

FAULT	REASONS/SOLUTIONS
PUMP WILL NOT START	<ul style="list-style-type: none">• Solar controller is not triggering pump to turn on. Refer to controller instruction manual.• Pump is not plugged into power.• Blockage is preventing rotation.• Electrical failure.• Automatic overload is tripped. The pump has an in built thermal overload which will reset automatically after the motor has cooled following an overheating period. Determine the cause of overload.
NO WATER FLOW	<ul style="list-style-type: none">• Pump is failing to self-prime. Check all water seals, add water to lint pot and manually re-start until pump primes. Caution: Running pump dry will result in damage and void warranty.• Valve closed – check valves on suction and discharge side of pump to ensure full water flow.• Blockage is preventing rotation.
PUMP MAKING LOUD NOISE	<ul style="list-style-type: none">• Physical debris caught in impeller. Clear from pump body and restart, ensuring pump re-primed.• Overheating has caused motor damage, and/or water ingress. Contact manufacturer for repair options.
PUMP LEAKING	<ul style="list-style-type: none">• Water leaking from seals – Check that O-rings on both union connections and pump lid are greased and are not pinched or damaged.• Water leaking from pump body – Contact manufacturer for repair options.

Maintenance

General Maintenance

The solar system has been designed as an absorber of the sun's energy to transfer heat into the pool. Ideal protection of the lifespan of the system will occur if water is flushed through the system regularly. Automation with 'Standby Mode' has been provided to facilitate this during the winter period.



'Flush' the System

Long term non-operation of the system can result in premature failure of the solar system and will void the warranty.

The system should also be checked for any leaks during the inspection of the vacuum relief valve (see below). If a leak occurs, it should be rectified immediately so as to avoid any roof or property damage. Because most pools are salt chlorinated and chemically treated, if a leak is left for long periods it will cause irreversible damage.



Check for leaks

Failure to abide by your maintenance schedule will void your warranty.

Vacuum Relief Valve

The vacuum relief valve is installed at the base of the manifolds. The valve provides 'vacuum relief' when the solar pump turns off by allowing the water to drain back to the pool. Air is drawn into the system through the top of the valve due to gravitational forces opening the internal seal. When the pump turns on water pressure will re-seal the vacuum relief valve. Air should be expelled into the pool within 2-3 minutes depending on the size of the system and during this period the resulting turbulence created will cause some associated noise.

Vacuum relief valves should be inspected regularly (2-4 months) during the months of operation. If it is leaking or blocked (no surges of air returning to pool) it should be cleaned. This can be done by pulling the cap off the top of the valve. Remove visible obstructions and wash the components with water. The solar pump must be turned off before cleaning commences.



Vacuum relief valve maintenance

Failure to correctly install a vacuum relief valve in your system or inspect and maintain its operation will void all warranties related to collectors, pipe work and fittings.

Solar Pump

Our range of solar pumps are designed to operate for extended periods without any attention or maintenance.

Following are the periodic maintenance requirements:

1. Keep lint basket clean - empty it regularly.



Lint basket maintenance

Blocked lint basket or suction pipe and no water flow can cause overheating with consequent pipe and pump components failure and meltdown (if applicable).

2. Apply suitable waterproof grease to the lint pot 'O' ring to ensure positive seal.
3. Ensure electrical passage for cooling airflow to prevent fusing or shock hazards.
4. Maintain a clear passage for cooling airflow to prevent overheating of motor.
5. Maintain water in good chemical balance.
6. Do not allow quantities of sand or grit to continuously pass through pump to prevent "sand blasting" erosions (use filter sock in lint basket if sand, etc. is being picked up by vacuum).
7. Do not over tighten strainer lid. Never use a tool or handle to tighten lid.
8. Do not add pool salt, chlorine, acid or other chemicals directly to your skimmer.



Do not add chemicals directly to skimmer

This may result in damage to your pump and may void your warranty.

Warranty Agreement

Definitions

- 1 All capitalised expressions used in this warranty are defined in paragraph 17.

Warranty

- 2 Supreme Solar Pty Ltd warrants that its services in installing the Product will be carried out with due care and skill and subject to clauses 3, 4, 5 and 6, that the installed Product will be free from defects in workmanship for a period of twenty four (24) months after installation (warranty includes in field labour costs.) The warranty is given subject to the terms of this warranty agreement.

- 3 The Solar Collector included in the Product carries:

- (a) in the case of a Strip Collector, a ten (10) year limited warranty from Procom Plastics Extrusions Pty Ltd, 38 McGregors Drive, Keilor Park, Victoria, 3042 (Phone: (03) 9331 7589, Email: sales@procomplastics.com.au); or
- (b) in the case of an Evacuated Tube Collector, a ten (10) year limited warranty from Supreme Solar Pty Ltd, 2/19 Enterprise Drive, Bundoora, Victoria, 3083 (Phone: (03) 9460 4200, Email: info@supremeheating.com.au); or
- (c) in the case of an UniPanel® Collector, a ten (10) year limited warranty from Supreme Solar Pty Ltd, 2/19 Enterprise Drive, Bundoora, Victoria, 3083 (Phone: (03) 9460 4200, Email: info@supremeheating.com.au);

For the purpose of this warranty, impact of hail is defined as penetration of hail stones completely through the panel or cracks or splits of the panel around the point of impact. This warranty applies in the case of hail measuring up to 25cm diameter in size, as per AS2712.

Any labour, travel and freight costs incurred are excluded from this warranty. Such costs are to be paid by the original purchaser.

and is the only warranty given in respect of that part of the Product.

- 4 The Automatic Controller included in the Product carries:

- (a) in the case of an Aqua-Gen 3D Automatic Controller, a one (1) year limited warranty from Space Age Electronics Pty Ltd, PO Box 4382, Homebush South, New South Wales, 2140 (Phone: (03) 5629 5833, Email: spaceage@bigpond.net.au); or
- (b) in the case of an Aqua-Gen 3/+ Series, AquaGen 5 Series or SSV Series of Automatic Controllers, a three (3) year limited warranty from Dontek Electronics Pty Ltd, 19 Melrich Road, Bayswater, Victoria, 3153 (Phone: (03) 9762 8800, Email: service@dontekelectronics.com.au); or

- (c) in the case of an Aqua-Gen 2 Automatic Controller, a two (2) year limited warranty (temperature sensors not covered) from Dontek Electronics Pty Ltd, 19 Melrich Road, Bayswater, Victoria, 3153 (Phone: (03) 9762 8800, Email: service@dontekelectronics.com.au);

and is the only warranty given in respect of that part of the Product.

- 5 The Solar Pump included in the Product carries:

- (a) in the case of an SSSL Series Solar Pump, a two (2) year limited warranty (six (6) months for commercial installations) from Supreme Solar Pty Ltd, 2/19 Enterprise Drive, Bundoora, Victoria, 3083 (Phone: (03) 9460 4200, Email: info@supremeheating.com.au); or
- (b) in the case of an SunSol SS Series or Booster AB Series Solar Pump, a two (2) year limited warranty. Two (2) year warranty on the motor, pump body and seal plate, and a one (1) year warranty on the mechanical seal from Reltech Australia Pty Ltd, 43-45 Kylta Road, West Heidelberg, Victoria, 3081 (Phone: (03) 9459 3838, Email: office@reltech.com.au);

A twelve (12) month in field labour warranty is applicable in Capital City Metropolitan areas or within a 20km radius of an Authorised Supreme Solar P/L or Reltech Australia P/L Service Agent.

and is the only warranty given in respect of that part of the Product.

- 6 All other components supplied by Supreme Solar Pty Ltd carry a twelve (12) month limited warranty and is the only warranty given in respect of these components of the Product.

Exclusions

- 7 Supreme Solar Pty Ltd will not be liable under this warranty where Supreme Solar Pty Ltd's reasonable opinion a defect is caused by:
 - (a) fair wear and tear;
 - (b) negligent, careless or improper use or handling;
 - (c) non-adherence to operating, cleaning or maintenance instructions;
 - (d) harsh or adverse Pool/Spa water conditions;
 - (e) repair to or alteration of any parts of the system by any person who has not been authorised by Supreme Solar Pty Ltd to perform such a repair or alteration;
 - (f) act of God, riot, fire or other occurrence outside normal working conditions; or
 - (g) by other abuse or misuse caused by the Purchaser or a third party.

- 8 Subject to clause 9, any condition or warranty which would otherwise be implied in this agreement or in relation to the Product is hereby excluded.
- 9 Where legislation implies in this agreement or in relation to the Product any condition or warranty, and that legislation avoids or prohibits provisions in a contract excluding or modifying the application of or exercise of or liability under such condition or warranty, the condition or warranty shall be deemed to be included in this agreement. However, the liability of Supreme Solar Pty Ltd for any breach of such condition or warranty shall be subject to clause 14 and any other applicable exclusions set out in this agreement, be limited, at the option of Supreme Solar Pty Ltd, to one or more of the following:
- (a) if the breach relates to goods:
 - (i) the replacement of the goods or the supply of equivalent goods;
 - (ii) the repair of such goods;
 - (iii) the payment of the cost of having the goods repaired; and
 - (b) if the breach relates to services:
 - (i) the supplying of the services again; or
 - (ii) the payment of the cost of having the services supplied again.

What Supreme Solar Pty Ltd will do

- 10 For defects relating to installation of the Product, Supreme Solar Pty Ltd will, in its absolute discretion:
- (a) repair the Product or pay for the cost of having the Product repaired; or
 - (b) replace the Product or supply an equivalent Product; or
 - (c) pay for the cost of replacing the Product or acquiring an equivalent Product;
- if the terms and conditions of this warranty are satisfied, Supreme Solar Pty Ltd will not be liable for any other loss or damage (including consequential or indirect damages).
- 11 Supreme Solar Pty Ltd reserves the right to charge the Purchaser, at Supreme Solar Pty Ltd's current hourly rate, for the cost of examining the Product if such examination by Supreme Solar Pty Ltd reveals that the Product:
- (a) is not defective; or
 - (b) is defective as a result of any of the events specified in paragraph 7.

What the Purchaser must do

- 12 Any claim under this warranty must be made at the earliest stage that the defect becomes obvious to enable prompt action and to avoid further damage and must be made no later than one (1) month of the defect becoming obvious.
- 13 Any claim for warranty must be accompanied by appropriate documentation which stipulates the date of installation, the invoice number, the details of the alleged defect and any other information reasonably required by Supreme Solar Pty Ltd.
- 14 Purchaser agrees to pursue any claims in relation to defective parts against the manufacturers or suppliers referred to in clause 3, 4, 5 and 6.

Whole agreement

- 15 This warranty and any warranties implied by law which are not capable of being excluded or modified from the whole warranty agreement between Supreme Solar Pty Ltd and the Purchaser and all other warranties, express or implied, whether arising by statute or otherwise, are excluded and cancelled.

Governing law

- 16 This warranty is governed by the laws of the State specified in paragraph 17(c).

Defined terms

- 17 (a) **Purchaser** The person who has purchased the Product and is able to produce proof of such purchase
- (b) **Product** Supreme Solar Pty Ltd solar pool heating system
- (c) **Governing law** (paragraph 16): Victoria, Australia

Consumer guarantee

- 18 This warranty is provided in addition to consumer guarantees and does not alter, limit or replace them.



**Supreme
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