



Heat Command 5SV

INSTALLATION AND OPERATION MANUAL

DESCRIPTION

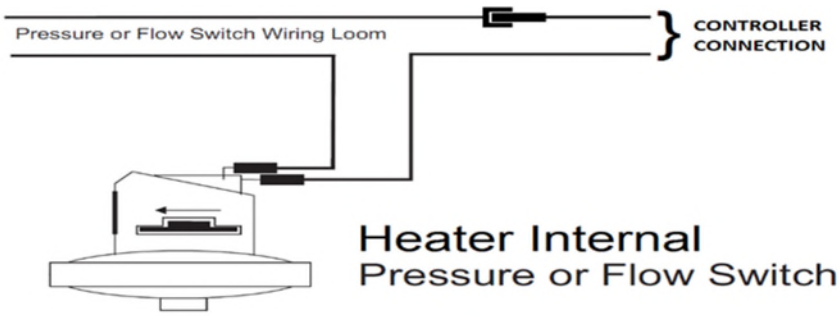
The Sunlover Heat Command 5-SV is a controller which caters for the heating of a swimming pool using a rooftop solar collector system combined with a heat pump or gas heater – both operating on a shared, independent heating circuit. The water pump connects to the designated pump socket, while a three-way automatic valve actuator directs water flow to either the solar collector or the auxiliary heater. If a gas heater is installed, it connects to the controller via an interlock cable to facilitate heater cool-down functionality.

INSTALLATION INSTRUCTIONS



THIS APPLIANCE IS NOT INTENDED FOR USE BY YOUNG CHILDREN OR INFIRM PERSONS WITHOUT SUPERVISION. PLEASE ENSURE THAT YOUNG CHILDREN ARE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.

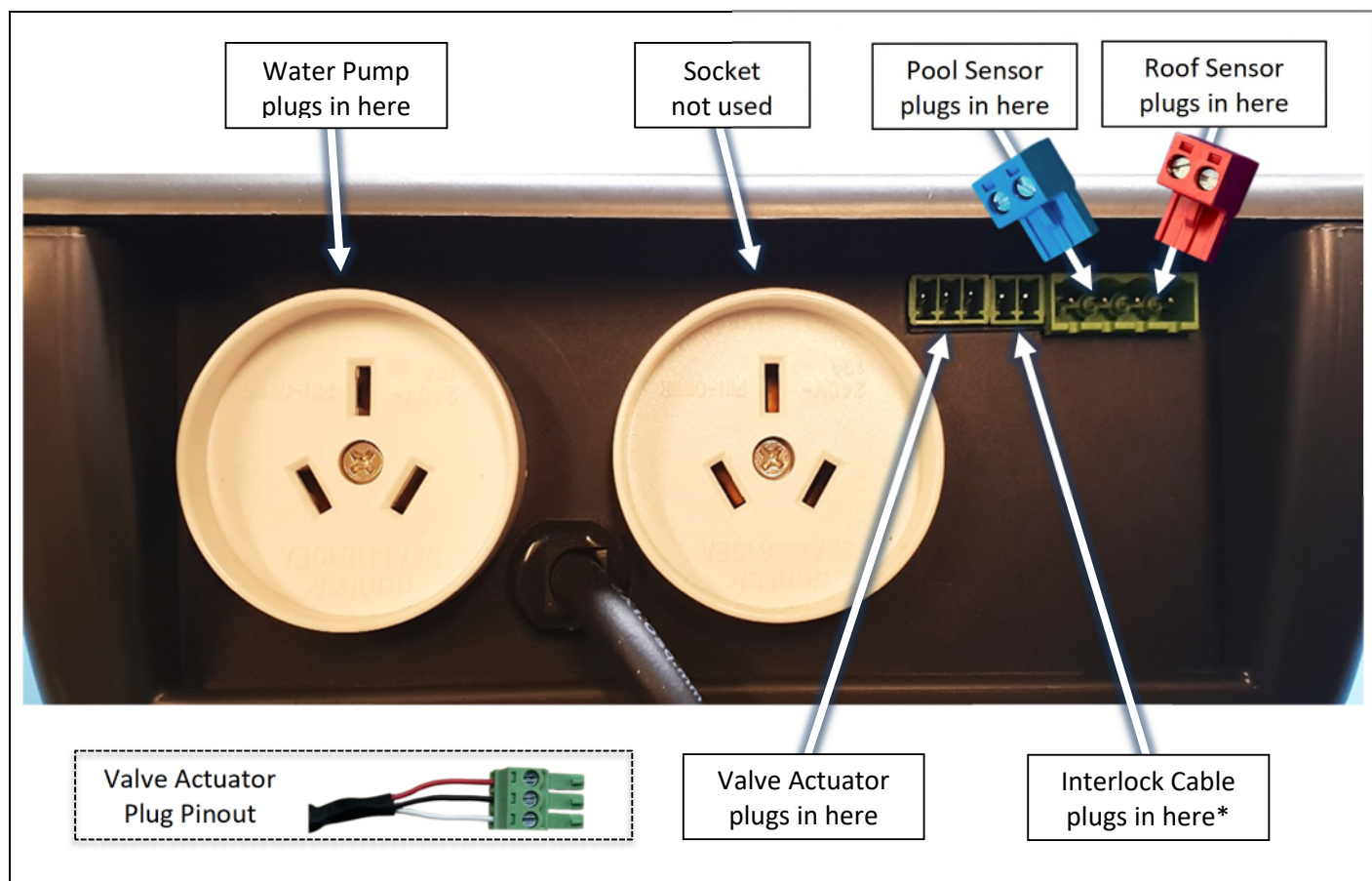
Ideally - as with all pool equipment - the controller should be installed out of direct weather.

CONTROLLER MOUNTING	Find a suitable location to mount the control box. The controller should be no closer than 3 metres from the water’s edge and a minimum 600mm above ground. The power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead. Fix the mounting bracket to a solid structure with the screw and wall plug kit provided. Slide the controller on, locking it into place. Adjust the screws on the back of unit to ensure a snug fit. To remove unit, lift and gently pull away from structure.
PUMP CONNECTION	The independent water circulation pump plugs into the 240V socket labelled ‘PUMP’. The solar heating and heat pump must be fed by an independent pump with its own pool suction and return circuit. The maximum load of the controller is 9.98 AMPS at 2395W. <i>Note that the Heat Command 5-SV is not suited to retro-boosted heating systems where the solar pump is drawing water from the filtration system.</i>
HEATER CONTROL	Set the heat pump or gas heater temperature limit to maximum (40°C). For gas heaters, the internal remote-control circuit will be interrupted to facilitate cool-down. The heater interlock cable connects to the green socket marked INT which switches on (closes) the voltage free NO/C relay contacts when the heater is to be turned on. The heater end of the interlock cable connects in series with the heater’s pressure/flow or fireman’s switch. Refer to the heater manufacturer’s instructions to locate the remote circuit connection point. The heater interlock is for extra low-voltage (MAX 24 volts at 1Amp) switching only and is not intended for use with mains voltage circuits. Doing so will cause damage to the controller which is not covered by warranty. Domestic heat pumps can typically be switched on and off remotely by interrupting water flow, as they do not require a cool-down period after shutdown. Therefore, the use of the heater interlock cable may not be required. <i>Check with heater manufacturer for designated remote control connection point.</i> <i>Illustration of a typical installation to the heaters pressure or flow switch:</i>  The diagram illustrates the connection of a heater's internal pressure or flow switch to the controller. A 'Pressure or Flow Switch Wiring Loom' is shown with two wires. One wire connects to a terminal on the 'Heater Internal Pressure or Flow Switch'. The other wire connects to a terminal on the 'CONTROLLER CONNECTION' block. The heater switch is depicted as a mechanical component with a lever and a switch mechanism.

INSTALLATION INSTRUCTIONS *(continued)*

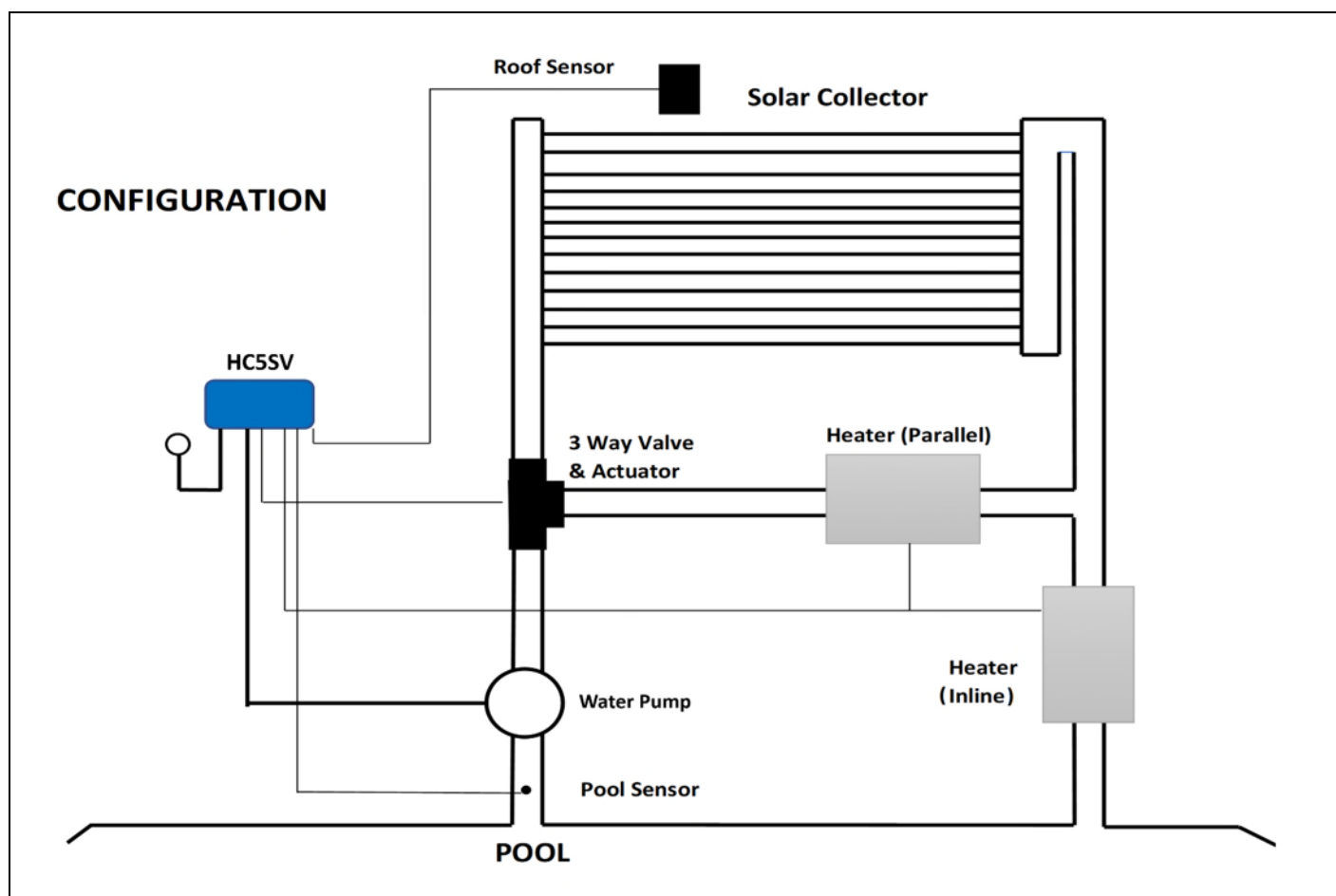
THREE-WAY VALVE	A three-way valve is installed which allows water flow to be diverted to the rooftop solar collector. Typically, a parallel plumbing arrangement is used where the valve will direct water to either the roof or the heater. Alternatively, an inline setup can be used where the heater is located on the return line and receives water flow regardless of whether or not the solar is active. Both configurations are acceptable (<i>see Page 9 – Heater Config</i>).
VALVE ACTUATOR	A valve actuator is used to control the three-way valve. Connect the valve actuator to the green socket marked VALVE. If wiring your own supplied valve, then wire as per the label on the bottom of the controller: red, black then white (<i>see image overleaf</i>). Red and white are for direction control and black is the common. Ensure the switch on the valve actuator is in an ON position. Refer to the valve actuator instructions for mounting requirements and cam adjustments. Maximum power for the VALVE output is 24VAC.
POOL SENSOR	The pool sensor must be fitted into the heating circuit, before the pump and as close to the pool as practical - preferably in a position out of direct sunlight. It is recommended that a 14.5mm hole be drilled in the side of the PVC pipe, not the top of the pipe where water will collect. This can be carried out using a Dontek PD01 grinding drill or a pilot hole drilled, then a 14.0mm drill-bit spinning in a counterclockwise direction to minimise the chance of shattering the pipe. Insert the grommet dry into the pipe. Lubricate the sensor barb with silicone spray and push the sensor into the grommet. Ideally ~30cm of the cable from the sensor should be tied to the shaded side of the pipe to prevent extreme ambient conditions leeching into the sensor via the copper in the cable. The blue sensor plug is to be fitted to the plug socket marked POOL.
ROOF SENSOR	The roof sensor is to be installed on the same roof as the heating collector, preferably no more than 50cm from the roof gutter (for ease of sensor replacement). If required, the roof sensor can be on a different roof to the solar collector as long as the alignment to the sun is similar to the solar collector. The red sensor plug is to be fitted to the plug socket marked ROOF.
SENSOR NOTES	All excess cable must be removed; coils of cable are not permitted under any circumstances and must not be tied to 240V wiring. If the cable is to be extended with non-genuine cable, a size of 14/020 should be used. Any cable joins should be soldered. Heat shrink is to be used over soldered joints to eliminate moisture ingress, and the cable end is to be refitted to the plug sockets. Once all cables have been correctly fitted the unit can then be switched on.

BASE DIAGRAM



** Gas Heaters Only*

PLUMBING CONFIGURATION



OPERATING INSTRUCTIONS

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 indicate what actions the controller should currently be doing. These arrows point to text on the label.
MODE BUTTON	Pressing this button changes to the next mode of operation. Once the mode button is no longer being pressed then the selected mode of operation is automatically saved. • Heating mode (Auto) is the normal operating mode for heating the pool. • Standby mode of operation is for off-season/holiday maintenance or if pool heating is not required. This is a better option than turning the controller off, as it will flush treated pool water through the solar system, and prolong solar pump bearing and mechanical seal life. Pump will run for 3 minutes a day, before 1pm. **Note - Solar and Auxiliary Heating are disabled in standby mode. • Night Cool mode is for situations where the pool water overheats <i>beyond</i> the set temperature limit due to direct heating from the sun. The controller will start the solar pump when the roof temp drops below the pool temp to cool the pool. **Note - for the cooling function to work properly, it is best if the solar run hours have been left at the factory default (See Installer Setup). This allows the controller to take the best advantage of evening and early morning hours to cool the pool. • Solar Manual is for testing the solar pump installation on a cold or cloudy day. Once manual mode is selected the pump will start. After manual mode times-out, unit will return to the previous mode. • Heat To Limit will ignore the run timer (Heater Cycles) to run the pump until the desired temperature limit is achieved. Once the temperature limit is reached the controller revert to Heating mode and run the heating during the set run times. The factory default mode is Heating mode.
↑ AND ↓ BUTTONS (TEMPERATURE SETTING)	Adjusting the temperature limit will allow the controller to heat the pool until the relevant temperature limit is met or exceeded by 0.5°C. Heating will then remain off for 60 minutes, after which the pump will run for 3 minutes to sample the water temperature again. Heating will recommence if the pool temperature drops 0.5°C below the relevant temperature limit setting. Otherwise, sampling will occur again in another 60 minutes. Due to rounding the actual heating hysteresis is ±0.5°C. **TEMP RANGE: OFF, 20° – 40° <i>The ability to solar heat the pool will depend on weather conditions and other factors.</i> Pressing the ↑ Button will display: SOLAR LIMIT Select this option and the following will display: SET TEMPERATURE; SOL. LIMIT XX.X° ** The factory default for SOL. LIMIT is 30°C. Press the ENTER Button to save the temperature, then the following will be displayed SET TEMPERATURE; AUX. LIMIT XX.X° ** The factory default for AUX. LIMIT is ON and 27°C. Press the ENTER Button to save the temperature settings. Pressing the ↓ button will display: HEATER LIMIT Select this will bypass the setting of the solar limit going straight to AUX. LIMIT.

OPERATING INSTRUCTIONS *(continued)*

Tip: If the controller is manually placed into STANDBY MODE, you will need to reset your AUX Heating settings to be ON and adjust the desired temperature when the controller is returned to HEATING MODE.

ENTER BUTTON	Pressing the ENTER button will turn on the LCD backlight. Pressing the ENTER button while the backlight is lit will enter the SETTINGS MENU. The menu system can be navigated using the ↑ or ↓ buttons. All selectable and changeable values will flash on the LCD screen. Press the ENTER button to accept the currently displayed (flashing) item. All menu items are shown below:				
1) EXIT	Will save changes and return to automatic operation.				
2) HEATER TIMERS	When the HEATER TIMERS is selected the following is displayed: No. OF TIMES PER DAY TO RUN: x Select the number of times per day you wish the AUX Heating to operate. If OFF is selected then the pump will only operate for Solar Heating purposes, otherwise the following is displayed: One time per day menu: HEATER CYCLE 1 menu: HEATER CYCLE xx:xx TO xx:xx Twice per day HEATER CYCLE 2 menu: <table border="0"> <tr> <td>HEATER CYCLE 1</td> <td>HEATER CYCLE 2</td> </tr> <tr> <td>xx:xx TO xx:xx</td> <td>xx:xx TO xx:xx</td> </tr> </table> Adjust the start time and end time for the required heater cycle(s). The circulation pump will run between these times for AUX heating purposes. The Factory Default is ON, ONE TIME PER DAY FROM 06:00 to 22:00. **Note 1 - Take care not to overlap heater cycle 2 times with the heater cycle 1 times as the result will be one cycle per day. **Note 2 - For 24hr heating, set the heating to run 1 time per day with the start & end times the same (E.g. 12:00 – 12:00). **Note 3 - If the unit is configured to run the heater parallel to the solar, the controller will not run the heater in conjunction with the solar. It will only run them individually. **Note 4 - When the roof temp probe exceeds the AUX LIMIT + 15°C, there is enough solar energy to heat the pool. The auxiliary heating is switched off to save energy. The auxiliary heater remains switched off until the roof temperature drops below AUX LIMIT + 10°C. It won't matter if the controller has been configured to run the heater parallel or in-line with the solar for this to occur.	HEATER CYCLE 1	HEATER CYCLE 2	xx:xx TO xx:xx	xx:xx TO xx:xx
HEATER CYCLE 1	HEATER CYCLE 2				
xx:xx TO xx:xx	xx:xx TO xx:xx				
3) SYSTEM	EXIT - Press ENTER on this menu to return to automatic operation. SET CLOCK – Allows you to adjust calendar date and time of day. LCD BACKLIGHT – Adjust the number of seconds the backlight remains on after the time a button was pressed. (Select NONE for always on.)				

INSTALLER SETUP



THE INSTALLER MENU IS INTENDED FOR USE BY QUALIFIED POOL PROFESSIONALS ONLY. INCORRECT ADJUSTMENTS TO THESE SETTINGS MAY RESULT IN EQUIPMENT MALFUNCTION OR DAMAGE.

<i>ACCESSING INSTALLER MENU</i>	To access the installer menu, press enter to access the settings menu and scroll down until "3) SYSTEM" is flashing. Now, press the MODE button which will take you to the installer menu.
<i>FACTORY DEFAULT? NO/YES</i>	Restore back to factory defaults.
<i>USE AUTO STANDBY? YES/NO</i>	When selected, you will be prompted to select the start month of Standby and the start month of Heating. Standby Mode assists in the solar system's off-season maintenance and saves energy as there may be solar gain available, but heating is not desired. A 3min flush of the solar collector occurs between the solar start time and the end time, provided that the roof temperature is equal to or greater than the pool, but if that condition does not occur before 1pm (13:00) a solar system flush will be forced to occur. A start month of 'always' can be selected which permanently sets the unit into Standby mode.
<i>USE SOLAR DRAIN? NO/YES</i>	If NO is selected, the valve will turn when solar heating is no longer required, however the pump will keep running if the auxiliary heater is active at this time. If YES is selected the following menu is presented;
<i>DRAIN IS TO STOP PUMP FOR?</i>	PUMP FOR xx MINS (RANGE = 03-15 MINUTES) The controller will then stop the water pump for the selected number of minutes when solar heating is no longer required. This allows for the water to drain out of the solar collectors before the water pump is restarted (if the auxiliary heater is active).
<i>ALLOW SOLAR FROM?</i>	xx:xx TO xx:xx (RANGES = 06:00-12:00 AND 12:00-21:00) This setting will not allow the solar system to run outside of the times set. (Select 12:00-12:00 to always allow solar).
<i>USE LIVE SENSOR? NO/YES</i>	You can option to select a 'LIVE' sensor. Select YES for a commercial system where the pool sensor is in constant water flow. The default setting is NO, which enables the water sampling feature.
<i>USE A HEATER? YES/NO</i>	Selecting NO will disable the AUX heating function, and Heater Run Times will not be displayed or selectable under 2. TIMERS. When YES is Selected, the following menu is presented:
<i>SAMPLE TIME:</i>	xx:xx (hh:mm) The pump stops for the selected time period once the temperature limit 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 0.5°C below the temperature limit setting. Due to rounding the actual heating hysteresis is ±0.5°C.
<i>HEATER TYPE?</i>	GAS HEATER / ELECTRIC HEATER This setting lets you to select the type of Auxiliary Heater used. Electric heaters / Heat pumps require no cool down. If GAS HEATER is selected, the cool down option will be displayed at the next prompt.

INSTALLER SETUP *(continued)*

HEATER COOL DOWN?	OFF MINUTE(S) (RANGE = OFF-20 MINUTES) Once the heater achieves temperature, or if the heating time period ends, then the heater is switched off. The cool down timer ensures that the circulation pump continues to operate to cool the heater before the pump switches off. ***COOL DOWN IS A CRITICAL REQUIREMENT FOR ALL GAS HEATERS*** If the 'use solar valve' option is selected, a reduced cool-down (1 min) is used before a valve turn (a full cool-down still occurs before the circulation pump is switched off).
HEATER CONFIG?	INLINE WITH SOLAR/PARALLEL WITH SOL Heater configuration tells the controller where the heater is located in the return water path <i>(see Page 3 – Base Diagram)</i>. If the heater is located on the return line and always receives water, regardless of whether the solar valve is turned, select INLINE WITH SOLAR. If the solar valve diverts water to the roof and away from the heater, select PARALLEL WITH SOLAR. Note: The heater will not operate in conjunction with solar when the configuration is set to Parallel.
ROOF TEMPERATURE?	ROOF TEMPERATURE START DIFF x.x° (4.0°-40.0°C) ROOF TEMPERATURE STOP DIFF x.x° (1.0°-(START -2°C)) ROOF TEMPERATURE MIN. ROOF xx.x° (OFF,10.0°-60.0°C) You can modify the differentials to change the solar heating parameters. START - The solar pump will start when the roof temperature is at least X°C higher than the current pool temperature. STOP - The solar pump will stop when the roof temperature drops to X°C or less above the current pool temperature. MIN. ROOF - The minimum roof temperature required for the solar to start heating.
PRIME PROTECT? YES/NO	This feature is not intended for use with Sunlover HC5SV controllers. The default setting is OFF.
FREEZE PROTECT? NO/YES (RANGE 1.0°C-6.0°C)	Anti-freeze function, when switched to ON, will start the pump when the roof temperature drops to the selected temperature. It will operate for 3 minutes every 30 minutes until the roof temperature rises above the selected temperature. The default setting is YES to support warranty requirements for some solar collectors.
BOIL PROTECT? NO/YES (Range 55°C - 99°C) (Range 3 - 59mins)	Anti-boil function. If you select YES, the pump will start when the roof temperature rises to the selected temperature. It will operate for the selected number of minutes, where the controller will then take a roof temperature reading and either start the solar pump again (if roof temp is still above selected temperature) or stop running the pump if the temperature has dropped below the selected temperature. Default is NO. If you select Boil Protect to be YES, the controller will display 99°C for 3mins. Adjust to required temperature and time.

INSTALLER SETUP *(continued)*

PIPE PROTECTION? NO/YES Range 50°C - 95°C	For use when solar collectors are flooded, flat and may require a wetted roof sensor for this mode. The controller will allow the pool to heat to the selected pool temperature, where it will then force the controller to stop any further solar heating of the system by not allowing the solar pump to run once the roof temperature reads above the selected Pipe Protection setting. The solar pump will be allowed to run once the roof temp drops below the selected Pipe Protection temperature. Default is NO. If you select Pipe Protect to be YES, the controller will display 80°C. Adjust to required temperature. <i>Note – Pipe Protection will not be offered if Boil Protection has been turned ON.</i>
CALIBRATE POOL SENSOR BY:	X.X (RANGE -5.0 TO +5.0°C) This is for the plus series sensor only (TS02P) and allows calibration of the sensor.
NOTES:	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 displays which sensor and the fault. 3. Should power be interrupted for any reason, the controller will resume operation when power is restored. All information will have been kept for up to 10 days. 4. If the controller has stopped the pump and is displaying a higher pool 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. The MAX combined rated output load for the 240V socket(s) is 9.98 Amps / 2395W. 6. Degree of protection against moisture: IP33. 7. Store all pool chemicals safely, at least 3 metres away from all pool equipment.

TROUBLESHOOTING

ISSUE	POSSIBLE CAUSE
There is no power to the display	Controller power lead is unplugged, or the power point is faulty. Ensure that the controller is plugged in. Test power point with a known working appliance. If the power point is operational, check the controller in another power point and if there is still no display, then send controller for repair.
Water pump will not switch ON	Ensure that there are no faults displayed on the controller as these will stop the pump from running. Check to make sure that the pump is plugged into the PUMP (left side) socket. Unplug the water pump and test the appliance in a known working power point. If pump still won't start, then the issue is within the pump itself.
Water pump will not switch OFF	Turn off power to the controller and ensure that the pump stops. If the pump continues to operate, the pump is likely plugged into a power point. Connect it back to the PUMP (left) socket at the bottom of the controller. If the pump is plugged into the controller and won't stop, check to see what is displayed on the controller screen as the controller may be running for heating purposes. If the pump is still running and the controller states that nothing should be running, send controller for repair.

TROUBLESHOOTING *(continued)*

ISSUE	POSSIBLE CAUSE
The pool is not heating	Check the controller LCD screen to see if any sensor faults are present and fix as required. Ensure that the controller is in Heating mode and not Standby. 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. Check the controller settings to ensure that the AUX temperature and runtime settings are correct. Check and ensure that the heater interlock cable (where equipped) is connected properly to both the controller and heater. Check and make sure that the heater has power connected and is set to its maximum temperature limit (40°C).
The valve actuator is not turning	Check and ensure that the wires are screwed into the plug properly and in the correct order (<i>see Page 3 – Base Diagram</i>). Check and ensure that the plug is pushed into the VALVE socket properly. Check and ensure that the physical toggle switch on the actuator is in either of the ON positions and not in the middle OFF position. Check the settings of the controller to ensure that the Solar is not turned off, controller is not in 'Auto Standby Mode', and that both sensors are reading. Make sure that the valve can be turned manually to ensure that the valve isn't jammed (debris inside the valve, or valve actuator seized/not working). If the above all checks out, send the actuator and controller for repair.
The controller is displaying a fault message	In the event of a detected fault condition, the controller will display one or more messages which will scroll across the screen. Observe the message and note down the exact text which is being displayed as you may have more than one fault being detected. For sensor faults, these refer to the two temperature sensors: PIPE SENSOR: This is the pool temperature sensor which is pushed into a rubber grommet inside one of the water pipes, usually on the inlet side of the solar pump. It has a blue connector which plugs into the controller socket marked 'POOL'. ROOF SENSOR: This is the roof temperature sensor which is located on the roof, usually in close proximity to the solar heating collector. This measures the physical temperature of the roof surface to indicate whether there is heat gain available. The sensor cable runs back to the controller location and in some installations will travel underground via a conduit tube which was installed when the pool was constructed. It has a red connector which plugs into the controller socket marked 'POOL'.
PIPE SENSOR DISCONNECTED OR OPEN CIRCUIT	Sensor cable unplugged from controller, cable damaged or sensor is faulty. Unplug the roof and pool sensor and plug them into the opposite sockets for testing. If the fault description changes to 'ROOF', this confirms the issue is with the blue pool sensor. Replace the sensor as required and retest.

TROUBLESHOOTING *(continued)*

ISSUE	POSSIBLE CAUSE
PIPE SENSOR SHORT CIRCUIT OR REVERSED	Sensor cable is damaged or sensor is faulty. Unplug the roof and pool sensor and plug them into the opposite sockets for testing. If the fault description changes to 'ROOF', this confirms the issue is with the blue pool sensor. Replace the sensor as required and retest.
ROOF SENSOR DISCONNECTED OR OPEN CIRCUIT	Sensor cable unplugged from controller, cable damaged, bad cable join, or sensor is faulty. Unplug the roof and pool sensor and plug them into the opposite sockets for testing. If the fault description changes to 'PIPE', this confirms the issue is with the sensor or cable. Repair or replace the sensor or cable as required and retest.
ROOF SENSOR SHORT CIRCUIT OR REVERSED	Sensor cable or cable join polarity is incorrect, or sensor is damaged. The positive side of the cable (grey coloured wire) should be wired to the righthand side of the plug, with the screws facing towards you and the sensor cable entry at the bottom of the plug. If the cable has been joined, ensure no polarity reversal occurs. Unplug the roof and pool sensor and plug them into the opposite sockets for testing. If the fault description changes to 'PIPE', this confirms the issue is with the sensor or cable. Repair or replace the sensor or cable as required and retest.
RTC-FAIL	This can occur if the unit has been turned off for a prolonged period of time. Switch off the power point and leave the unit powered down for 30 seconds, then turn it on for 30 seconds before turning it back off again. Wait 30 seconds and restart the controller. If the fault continues to appear, send controller for repair.

Tip: For sensor faults, start by checking the red and blue sensor connectors which plug into the base of the controller. If one of these connector plugs is damaged or corroded, generic replacement plugs can be purchased from some electronics stores. If a connector is missing, check the pool equipment area for any cables which may have fallen out and reconnect them as required.

FACTORY RESET

To perform a factory reset, switch off the controller. Hold down the ENTER button and switch power on. Continue holding button for 5 seconds after powering up.

WARRANTY

AUSTRALIAN CONSUMER LAW

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This range of product is covered by a limited three-year back to base warranty against component failure or faulty workmanship from the date of installation. Temperature sensors and valve actuators are covered by a 12-month warranty at the discretion of their manufacturer.

Defective equipment must be returned to the manufacturer or dealer as soon as the purchaser becomes aware of the defect and all transport must be prepaid.

Damage to the unit due to misuse, power surges, corrosion from pool chemical fumes, lightning strikes, insect infestation and or installation that is not in accordance with the manufacturer's instruction may void the warranty.

The warranty does not include on-site labour or travel costs to or from the installation site.

Valves and actuators are covered by their own separate warranties – refer to the relevant manufacturer.



IF THE POWER CORD IS DAMAGED, IMMEDIATELY SWITCH OFF AND DISCONNECT THE CONTROLLER. RETURN THE UNIT TO THE MANUFACTURER FOR ASSESSMENT AND REPAIR.

For all technical assistance and warranty enquiries, please contact your local distributor or contact Sunlover Heating directly:

SUNLOVER HEATING

Phone: 1800 815 913

Website: sunloverheating.com.au

Email: sales@sunloverheating.com.au

More troubleshooting resources are available online at Sunlover Heating



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