



Model SL9 Solar Controller

www.sunloverheating.com.au

Sunlover Heating

62 Parkhurst Drive, Knoxfield, VIC 3180

Tel: +61 1800 815 913

Email: sales@sunloverheating.com.au

SL9 INSTRUCTIONS

The SL9 unit is designed to give you year round automatic control of your swimming pool solar heating system.

By following these simple installation and operating instructions, you will enjoy trouble free operation for many years.

CAUTION

- **DO NOT OPEN THE CASE OF YOUR SL9 UNIT - IT IS NOT USER SERVICEABLE. OPENING THE CASE WILL VOID YOUR WARRANTY.**
- **IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED BY THE MANUFACTURER OR AN AUTHORISED AGENT.**
- **ENSURE THAT THE SL9 UNIT AND SURROUNDING AREA ARE FREE FROM VERMIN INFESTATION.**

INSTALLATION

The SL9 unit is weather resistant; however it should be mounted in a sheltered position where it is not exposed to direct weather, splashing or spray from the pool or filtration equipment.

Electrical building regulations specify that the SL9 unit must NOT be mounted within 3.5 metres of the pool.

Fix the unit to a wall or post, within 1.5 metres of a 240 volt outlet and within 2 metres of the solar pump. Mounting points are provided on the back. Two sets of temperature sensor cables are supplied; one short cable (3m) for the pool and one long cable (24m) for the roof. This solar control unit must be installed in the upright position. The hole size required for the pool sensor grommet is 12.5mm (1/2 inch) in diameter.

- **Avoid cutting the sensor leads (excess can be neatly coiled).**
- **If the cable is cut, it must be reconnected with the POSITIVE (stripe) to the POSITIVE, and the NEGATIVE (no stripe) to the NEGATIVE.**
- **Do not place any wire joins underground.**

POWER CONNECTION

Power is supplied through a standard 240 volt lead. A piggyback socket is provided on the lead if you need to run the filter pump and the SL9 unit from the one power outlet. Power for the solar pump comes from the socket on the bottom of the unit.

Maximum Pump rating - 1.5HP

ONLY THE PUMP IS TO BE CONNECTED TO THE CONTROLLER OUTLET. MORE THAN THIS, OR EQUIPMENT OTHER THAN A PUMP MAY DAMAGE THE ELECTRONICS OR THE ITEM CONNECTED TO THE CONTROLLER OUTLET AND WILL VOID YOUR WARRANTY.

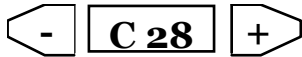
OPERATION

AUTOMATIC (SUMMER) MODE

For full automatic operation, simply plug it in and switch on. When the SL9 unit senses the sun's heat it compares it to the pool's temperature and your preset "comfort" temperature and decides when to heat the pool. Whenever the unit is powered up, there will be a delay of 2 minutes before the solar pump is activated. The unit will then run for at least 6 minutes to reset the pool temperature sensor.

Comfort Temperature Adjustment

Adjustment of the comfort level is achieved by pressing either the "+" or "-" buttons. The first operation will simply display the present comfort temperature (i.e. C25). Any further operation of the buttons will increase or decrease the setting. The setting will automatically change if either button is pressed and held down. This temperature will be stored permanently in memory, even with power off.



DISPLAY MODE

To read roof, pool and comfort temperature settings, press the "DISPLAY" button. The display will cycle through the three settings showing an "r" for roof, a "P" for pool or "L" for last and a "C" for comfort.

DISPLAY MEANING

P28	L28	C30	r48
Pool temp when pump is on. Pool is 28°C.	Last pool temp when pump is off. Pool was 28°C when pump turned off.	Shows comfort setting 30°C.	Shows roof temp 48°C.

PPP

Flashing.
Faulty pool sensor,
or pool outside 1°C-50°C

rrr

Flashing.
Faulty roof sensor,
or roof outside 1°C-100°C

NOTE: When pump is off, controller shows the L temperature as the pool sensor is no longer reading a valid temperature.

WINTER MODE

The SL9 unit is equipped with a unique "Winter mode" facility which allows the user to operate the solar system daily throughout the colder months. By using this facility you will extend the life of your solar heating by preventing pump seizure and drying of chemical build-up in the collector.

To select Winter mode, press the "WINTER" button. The display will show "W" and the unit will turn the pump on for six minutes each day. This sequence repeats every 24 hours. To resume normal operation, press the "WINTER" button again and the unit will begin Automatic (Summer) operation.

TROPICAL MODE

To select Tropical mode, press the "WINTER" and "DISPLAY" buttons together. The "Tropical" LED will come on and the unit will then turn on for a short time every 4 hours to check the pool temperature and heat or cool as required. To resume normal operation, press the "WINTER" and "DISPLAY" buttons together.

NOTE: This mode is used to cool your pool at night if it overheats in VERY hot weather. Most people do not need to use this function.

OVERRIDE MODE

Before selecting these modes, remember that the SL9UD unit is designed to work automatically. Overriding the automatic operation can result in overheating or even cooling if the solar system continues to run when the sun is not shining.

To select "pump override on", press the "+" and "-" buttons together. The display will flash between "On1" and the current pool temperature. The "Override" LED will be flashing and the pump will operate for 1 hour before resuming automatic mode. To select a 4 hour override duration, press and hold the "+" and "-" buttons together for five seconds. The display will show "On4". To cancel override operation, press the "+" and "-" buttons together again.

To select "pump override off", press the "+" and "DISPLAY" buttons together. The display will alternate between "OFF" and the current pool temperature. The "Override" LED will be flashing, and the pump will turn off and stay off for 1 hour before resuming automatic mode or until these buttons are operated again.

ERROR INDICATION

NOTE: In cases of extremes in temperature, the fault displays may show although the unit is not faulty. Remember the pool temperature is sensed from the inlet pipe which can be much colder or hotter than the pool if the system has been off for some time. The SL9 unit will sense a fault in roof or pool sensors, and indicate it by flashing "PPP" or "rrr". In this state the unit will not work properly until serviced.

SUNLOVER HEATING WARRANTY - SL9

- This range of product is covered by a limited 2 year warranty against component failure or faulty workmanship from the date of installation.
- Temperature sensors are covered by a limited 12 month warranty.
- A faulty unit should be returned in the first instance to the dealer from which the unit was purchased.
- Damage to the unit due to misuse, power surges, lightning strikes or installation that is not in accordance with the manufacturer's instruction may void the warranty.
- Valves and actuators are covered by a twelve month warranty at the discretion of their manufacturer.
- Warranty does not cover travel costs to or from installation site.
- Return to supplier for repair.

CUSTOMER RECORD

(to be retained by the customer)

Date Installed: ____ / ____ / ____

Dealer/Installer Name: _____

Model Number: _____

Serial Number: _____

For service assistance phone SUNLOVER HEATING

HEAD OFFICE - VIC

62 Parkhurst Drive
Knoxfield 3180
Victoria
Australia
03 9887 2131

NSW OFFICE

Factory 2
20-22 Foundry Road
Seven Hills 2147
New South Wales
Australia
02 9838 0000

QLD OFFICE

Unit 1
8 Reichert Drive
Molendinar 4214
Queensland
Australia
07 5679 6821

www.sunloverheating.com.au