SSV2 INSTRUCTIONS

INSTALLATION INSTRUCTIONS

CONTROLLER MOUNTING:
Find a suitable location to mount the control box. Ideally, as with all pool equipment it should be installed out of direct weather and no closer than 3m from the waters edge. Lift up the two mounting tabs and use two appropriate screws to mount the control box to the wall, keeping in mind that the power cable is 1.8m long and should be plugged directly into a general power outlet, not into extension leads.

POOL SENSOR:
For stand alone systems with separate suction and return, the pool sensor must be fitted into the suction line of the solar boost pump preferably in a position out of direct sunlight. It is recommended that a 14.5mm hole be drilled in the PVC pipe, this can be carried out using a 14.5mm drill-bit spinning in a counter clockwise direction to minimise the chance of shattering pipe. The sensor plug is to be fitted to the left hand socket.

ROOF SENSOR:
The roof sensor end must be fitted in a small piece of solar collector or equivalent and attached to the roof. The best location is within arms length of the guttering edge of the house or shed as long as the sensor end is not shaded and is on a roof of similar aspect of the main collector run, it must not be fitted on top of the solar collector.

Keep in mind that it is of the utmost importance to keep the roof sensor as short as possible as this will assist in the longevity of the sensor and controller in the event of electrical storm activity and power surges. Sensor cables must not be run parallel to power cables and run lengths should be less than 50m. Cable ties should be used to fasten the sensor cable to the cold water inlet pipe making sure that the ties are away from PVC fittings. Cable ties should be tightened firm but not too tight to damage the cable.

If the cable is to be run under ground a conduit must be used to protect the wire and there is to be no cable joins within, ends of conduit must be sealed to prevent water ingress. **Any excess cable should be removed and re-fitted ensuring that the wire ends are tinned with solder.** The sensor plug is to be fitted to the right hand socket.

NOTES:
All excess cable must be removed, coils of cable are not permitted under any circumstances. If the cable is to be extended with non genuine cable a size of 14/020 should be used. **Any cable joins must be soldered and this includes where the cable enters the terminal block at the case base**. Heat shrink is to be used over soldered joints to eliminate moisture ingress.

Cable polarity must be observed as incorrect polarity will show an error as stated in ‘fault diagnosis’.

Once cables have been correctly fitted the unit can be turned on.

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OPERATING INSTRUCTIONS

SUMMER Mode:
The SSV2 is factory set in Summer Mode which is the normal operating mode for the pool swimming season. To change the desired pool limit, simply press and hold the UP or DOWN buttons until the desired temperature is achieved. When idol the SSV2 will show the pool temperature then flash the limit setting and limit light; the pump light will be on when solar gain is available.

TROPICAL Mode:
To assist in the cooling of an overheated pool the SSV2 has a Tropical Mode. To set this function first turn the power off, then while pressing and holding the down button, turn the power back on. The unit will briefly show 55 on the display to indicate the unit is in tropical mode. If the limit temperature is reached, which will be indicated by the limit light flashing, and the roof temperature falls below the limit temperature (usually some time late at night) the pump will turn on and pump pool water to the roof to cool it down. The pump will turn off when the pool water is cooled to the limit setting. To switch this function off, first turn the unit off, and then while pressing and holding the down button, turn the unit back on, the display will briefly show 44 on the display to indicate the unit is in normal 'Summer Mode'.

WINTER Mode:
The SSV2 has a Winter Mode, which turns the solar pump on for 3 minutes every 24 hours to assist in the systems off-season maintenance. This may be entered by pressing and holding both the up and down buttons together for 3 seconds, the display will go blank and the pump and limit indicators will flash alternately. It will continue in this mode until either one of the buttons is pressed, which will return the unit to its normal 'Summer Mode'. If the power is interrupted during winter mode the SSV2 will continue to count time accurately up to 7 days.

OPERATION:
The SSV2 will turn the pump on when the roof temperature is higher than the pool (pipe) temperature by 8°C and will switch off when the roof temperature drops to 4°C above the pool temperature or the pool reaches its limit setting. When the pool temperature reaches limit the pump will turn off the limit is displayed and the limit light will flash. It will remain in this state for 2 hours then carry out an auto flush to recheck the pool water temperature, the pump and limit light will flash when testing. If the pool has cooled the pump will continue to run but if at limit, the pump will stop and the limit light will flash, this procedure may occur up to 3 times per day. The pool sensor is normally located well away from the actual pool and may sit in direct sunlight or in warm enclosures so an auto flush program is incorporated to ensure accurate pool temperature readings. Auto flush will occur if the pool sensor reaches limit and the pump has not been running, the limit light will be on and the pump light will flash while testing. After the test the pump will continue to run if there is solar gain or stop if the pool is at limit or there is insufficient solar gain, accurate pool temperature will be displayed.

Roof Temperature:
The roof temperature is displayed for 3 seconds when the power is first turned on to the unit.

Manual Over-ride:
By holding the UP button when powering up, the solar pump will run for 30 minutes then return to Auto mode, the pool temperature and pump light will flash.

FAULT DIAGNOSIS:
In the event of a cable or sensor failure, the display will indicate the type of failure as follows;

ROOF SENSOR
A display of 99 indicates a broken or disconnected sensor cable or open circuit sensor.
A display of 88 indicates wrong polarity connection or short-circuited cable or sensor.
A display of 89 indicates a high sensor reading out of normal operating range.
A display of 00/03 indicates an over extended or coiled sensor cable.

POOL SENSOR
A display of 77 indicates a broken or disconnected sensor cable.
A display of 66 indicates wrong polarity or short-circuited sensor cable.
A display of 67 indicates a sensor reading out of normal operating range.

WARRANTY - SSV2

This range of product is covered by a limited 3 year warranty against component failure or faulty workmanship from the date of installation.

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.

Warranty does not cover travel costs to or from installation site.

Return to supplier for repair

Customer Record (to be retained by the customer)

Dealer/Installer Name: _____

Model Number: SSV2_____

Serial Number: _____

Date Installed: _____

For service assistance phone 1300 130 693

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