# **AQUASMART 5 RTA**

# Instruction Manual





## **DESCRIPTION**

The Aquasmart5 RTA is a controller for heating a swimming pool with a solar collector and a heat pump or gas heater. Two pumps are controlled where the solar pump can be locked to the circulation pump if required for retrofit/integrated plumbing. A valve drive can be optioned in and is used instead of a solar pump (on retrofit/integrated systems) or it can be used to block thermal syphoning by using a 3-way valve. If the heating system is independent of the filtration, a 3-way valve is required to bypass or send water to the solar collector before returning to the heat-pump or gas heater.

See Installer Setup to set the Filtration pump load settings.

### **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 THEY DO NOT PLAY WITH THE APPLIANCE.

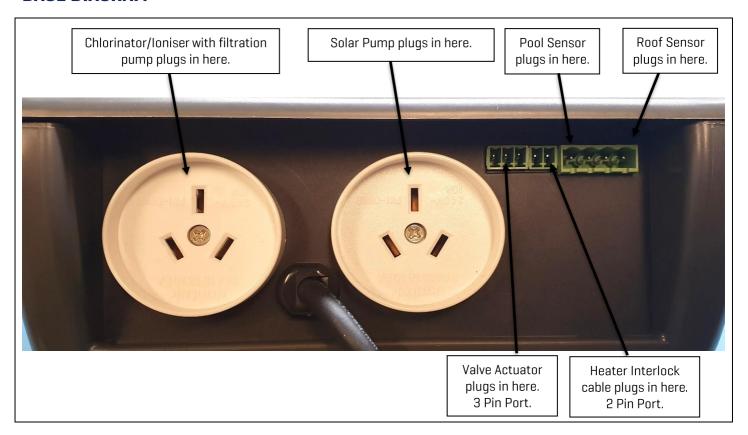


Ideally, as with all pool equipment, the controller should be installed out of direct weather.

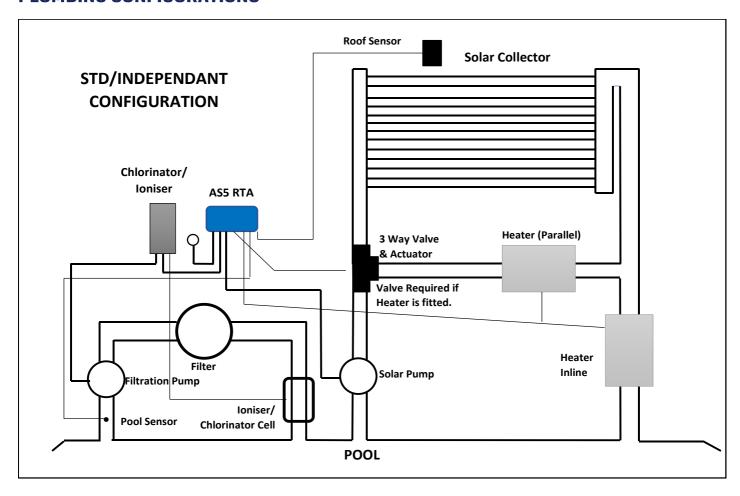
CONTROLLER MOUNTING	Find a suitable location to mount the control box.  The controller should be no closer than 3 metres from the water's edge and a minimum 600mm above ground. The power cable is 1.8m long and should be plugged directly into a general power outlet, not into an extension lead.  Fix mounting bracket to a solid structure with the screw and wall plug kit provided. Slide the controller on, locking it in place. Adjust screws on the back of unit to ensure a snug fit. To remove unit, lift and gently pull away from structure.
SANITISER CONNECTION	The Sanitiser (Ioniser, Chlorinator, Ozoniser, etc) is connected to the 240V socket on the controller labelled as FILTER. The plug of the pool circulation pump is then plugged into the bottom of the Sanitiser.  The Sanitiser is set to operate 24hrs per day as the Aquasmart5 RTA will control the number of hours per day the system will operate. Refer to the Sanitiser instructions for 24hr timer setup and dosing requirements.
PUMP CONNECTION	The Circulation pump plugs into the 240V socket labelled FILTER.  If a solar booster pump is to be used, plug into the 240V socket labelled SOLAR.  The maximum load is 9.98 AMPS at 2395W.
HEATER CONTROL	Set the heaters temperature limit to maximum [40°C]. The heaters internal control will be interrupted, to turn off heating. 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. Contact the heater manufacturer for the best location to connect to.  The heater interlock is for extra low-voltage [MAX 24V at 1Amp] switching only. If the heater's control circuit is 240Vac, an external relay kit can be purchased separately and is to be connected by a licensed electrician.  For Internal connection to pool heater [check with heater manufacturer].  Illustration of a typical installation to a Gas heaters pressure or flow switch.  Pressure or Flow Switch Wiring Loom  CONTROLLER CONNECTION
	Heater Internal Pressure or Flow Switch
VALVE	A valve can be used for selecting or bypassing the solar collector when heating with an auxiliary heater in the independent plumbing configuration. The valve can also be used for selecting or bypassing the solar collector instead of using a solar pump in the retro-fit plumbing configuration or can be used in conjunction with a solar pump to prevent thermal syphoning. Connect the valve 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). 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 instructions for mounting requirements, cam adjustments etc.  Maximum power for the VALVE output is 24VAC.

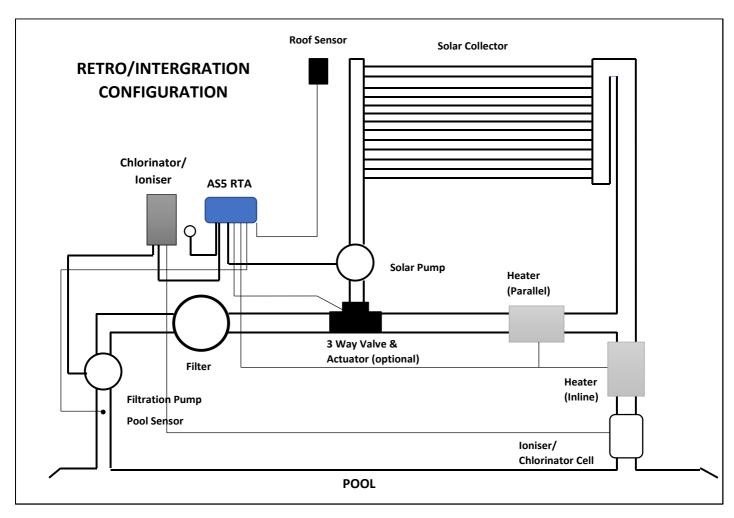
## The pool sensor must be fitted into the heating circuit, as close to the pool as practical, preferably in a position out of direct sunlight. It is recommended that a 14.5mm hole be drilled in the side of the PVC pipe, not the top of the pipe where water will collect. This can be carried out using a Dontek PD01 grinding drill or a pilot hole drilled, then a 14.0mm drill-bit spinning in a counter clockwise **POOL SENSOR** direction to minimize the chance of shattering pipe. Insert the grommet into the pipe and gently push in the sensor barb. 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. The roof sensor must be fitted into a small piece of collector material away from the main collector but on the same aspect, preferably no more than 50cm from the roof gutter (for ease of sensor replacement). **ROOF SENSOR** 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. For encapsulated collector panels, use the manufacturer's instructions for roof sensor placement. The red sensor plug is to be fitted to the plug socket marked ROOF. 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 **SENSOR NOTES** non-genuine cable, a size of 14/020 should be used. Cable joins should be soldered. Heat shrink is used over soldered joints to eliminate moisture ingress, The cable end is to be refitted to the plug. Once cables have been correctly fitted the unit can be turned on.

#### **BASE DIAGRAM**



# **PLUMBING CONFIGURATIONS**





## **FACE PLATE**



## **OPERATING INSTRUCTIONS**

UPERATING 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 point to current mode text on the label.
	Pressing this button changes to the next mode of operation. Once the mode button is no longer being pressed, the selected mode of operation is automatically saved.
	<ul> <li>Heating mode (Auto) is the normal operating mode for heating the pool.</li> <li>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.</li> </ul>
	<b>Note 1</b> – If the controller is put into Standby mode at a time outside of the set filtration time, the controller will perform the 3 minute standby flush at the start of the next filtration cycle, after completing the 3 minute pump priming function.
	Note 2 – If the controller is put into Standby Mode at any time, it turns the AUX heating OFF. When the controller is taken out of Standby Mode you will need to adjust the AUX Limit to ON and set the desired temperature, using the the   ↓ button as described on pg 5.
	Night Cool mode is for situations where the pool water overheats beyond 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.
MODE BUTTON	**NOTE - 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.
	• Filter Manual is for switching the filter pump on or off. This mode can be used for a 3min (Backwash), for running the filter pump for up to 24hrs, or for ensuring that the filter pump doesn't turn on for system maintenance.
	**NOTE: Once Manual is selected the filter pump will start. Once the pump has started you can use the
	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 time-outs, unit will return to the previous mode.  Apart To Limit will impose the run times (Heater Cycles) to run the nump until the
	<ul> <li>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</li> </ul>

\*\*The factory default MODE is HEATING MODE

controller will revert to Heating mode and run the heating to the set run times.

Adjusting the temperature limit will allow the controller to heat the pool until the temperature limit  $+\frac{1}{2}$ °C is achieved. \*\*\*TEMP RANGE: OFF, 20° - 40° \*\*\* The ability to solar heat the pool will depend on weather conditions and other factors. Pressing the † Button will display **SOLAR LIMIT** Select this option and the following will display ↑ AND ↓ SET TEMPERATURE; **BUTTONS** SOL. LIMIT XX.X° **(TEMPERATURE** Press the ENTER Button to save the temperature, then the following will be displayed **SETTING** SET TEMPERATURE; AUX. LIMIT XX.X° 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. \*\* The factory default for SOL. LIMIT is 30°C. \*\* The factory default for AUX. LIMIT is ON and 27°C.

#### **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 following will be displayed:

1) EXIT, the menu system can be navigated using the  $\uparrow$  or  $\downarrow$  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
- 2) TIMERS
- 3) SYSTEM

1) EXIT	Will save changes and return to automatic operation.
2) TIMERS	FILTER RUN TIMES – When the FILTER RUN TIMES is selected the following is displayed:
	No. OF TIMES PER DAY TO RUN: x
	Select the number of times per day you wish the circulation pump to operate for filtration purposes. If OFF is selected then the pump will only operate for heating purposes, otherwise the following is displayed:
	One time per day menu:
	FILTER CYCLE menu:
	FILTER CYCLE
	xx:xx TO xx:xx
	Twice per day FILTER CYCLE 2 menu:
	FILTER CYCLE 1 FILTER CYCLE 2 xx:xx T0 xx:xx
	Adjust the start time and end time for the required filter cycle(s). The circulation pump will run between these times for filtration purposes.

	HEATER RUN TIMES – When the HEATER RUN TIMES 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:
2) TIMERS (CONTINUED)	HEATER CYCLE xx:xx TO xx:xx
	Twice per day HEATER CYCLE 2 menu:
	HEATER CYCLE 1 HEATER CYCLE 2 xx:xx T0 xx:xx
	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.
	**Factory Default is ON, ONE TIME PER DAY FROM 06:00 to 22:00.
	Note 1: Take care not to overlap filter cycle 2 times with the filter cycle 1 times as the result will be one cycle per day.
	Note 2: For 24hr filtration, set 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 as a series retro-fit and solar is not locked to the filter time, solar gain will over-ride the filter timer to operate circulating pump for solar heating.
	<u>Note 4:</u> 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.
	EXIT - Press ENTER on this menu to return to automatic operation.
3] SYSTEM	SET CLOCK — Allows you to adjust calendar date and time of day.
ЭЈЭТЭТЕМ	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**;

TO ACCESS MENU PRESS ENTER AND SCROLL DOWN TO SYSTEM AND PRESS THE MODE BUTTON <u>WARNING PROFESSIONAL ONLY SETTINGS!!</u>

FACTORY DEFAULT? NO/YES	Restore back to factory defaults.
USE AUTO STANDBY? YES/NO	When selected you will be prompted to select the start month of Standby and the start month of Heating. Standby Mode assists in the systems off-season maintenance and saves energy as solar gain may be available but swimming temperature cannot be achieved or solar heating is not desired.
	A 3min flush of the solar collector occurs between the solar start time and the end time, providing 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. Using Auto Standby mode does not turn off auxiliary heating.
	A start month of 'always' can be selected which permanently sets the unit into Standby mode.
	<u>Note</u> : In AUTO STANDBY mode the 2nd filter cycle does not run OR THE SINGLE FILTER CYCLE IS HALVED. AUXILIARY HEATING PARAMETERS ARE KEPT.

PLUMBING CONFIGURATION?	PLUMBING CONFIG: PLUMBING CONFIG: INDEPENDENT/STD SERIES RETRO-FIT Select series retro-fit (integrated), if the solar pump requires feed from the circulating pump. Select independent/std if the solar system and heater are plumbed separate from the filtration line. See images below for typical set-ups.
USE SOLAR DRAIN? NO/YES	If NO is selected then the solar pump will stop if solar heating is no longer required.  If YES is selected the following menu is presented:
DRAIN IS TO STOP PUMP FOR XX MINS?	DRAIN IS TO STOP PUMP FOR xx MINS [RANGE = 03-15 MINUTES]  The controller stops all pumps for the selected number of minutes. This allows for the water to drain out of the solar collectors before the pool pump is restarted.  If the pool is not at solar limit during the drain process and solar heating becomes available the system will resume heating. The system may delay the drain process if the pool is below limit and if the roof temperature is above the pool temperature.
LOCK TO FILTER? NO/YES	[Only shown when SERIES RETRO-FIT is selected in Plumbing Configuration] Selecting NO allows the solar to override the filter timer to run the circulation pump for solar heating during the allowed solar times. Selecting YES will only allow the solar to run while the filter timer is active.
ALLOW SOLAR FROM?	xx:xx T0 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].
USE LIVE SENSOR? NO/YES	You can option to select a 'LIVE' sensor.  Select YES for a commercial system where the pool sensor is in constant water flow.  If you select NO (recommended) to enable the sampling feature. The controller assumes the pipe temp is not always pool temp.
USE A HEATER? YES/NO	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:
SAMPLE TIME:	xx:xx (hh:mm) This stops the pump for the selected time period once the temperature limit has been 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 $1/2$ °C below the temp limit setting. Due to rounding the actual heating hysteresis is $\pm 1/2$ °C.
HEATER TYPE?	GAS HEATER / ELECTRIC HEATER  This setting allows you to select the type of Auxiliary Heater used. Electric heaters/ Heat pumps require no cool down.  If GAS HEATER is selected the following is displayed:

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.  If 'use solar valve' option is selected, a reduced cool-down (1 min) is used before a valve turn (a cool-down will still occur before the circulation pump is switched off).
HEATER CONFIGURATION	INLINE WITH SOLAR/PARALLEL WITH SOL  Heater configuration tells the controller where the heater is located in the return water path (see diagram under INSTALLER SETUP). The normal path is for the solar to return through the heater back into the pool (heater is located in the return line after the solar collector 'T' junction). This is called INLINE WITH SOLAR.  If water from the solar collectors returns to the pool without going through the heater, select PARALLEL WITH SOLAR.  Note This will alter how the controller operates. The heater will not operate in conjunction with solar.
ROOF TEMPERATURE	ROOF TEMPERATURE START DIFF x.x° $(4.0^\circ-40.0^\circ\text{C})$ ROOF TEMPERATURE STOP DIFF x.x° $(1.0^\circ-(\text{START}-2^\circ\text{C}))$ ROOF TEMPERATURE MIN. ROOF xx.x° $(\text{DFF},10.0^\circ-60.0^\circ\text{C})$ You can modify the differentials. The Start differential is the temperature the roof needs to rise above the pool to start the pump, The Stop differential stops the pump when the roof drops below the pool temp plus the stop differential. Minimum roof is the roof temperature required for the solar to start heating $(\text{Off} = \text{feature disabled})$ .
PRIME PROTECT? YES/NO	Ensure that the filtration pump is plugged into the Sanitiser and the Sanitiser is plugged into the FILTER power outlet of the controller.  The controller will ask you if you would like the current detection to be ON or OFF. Use the ↑ or ↓ buttons to select the required option and press the Enter button.  If OFF is selected the unit will operate as a standalone solar controller and the PUMP socket will be powered constantly.  Note: The valve actuator may open in this instance (due to there being solar gain) even if no water is flowing through the system (ie out of filtration time).  If ON is selected then the filtration pump will start.  Ensure the filtration pump is operating (and at the required speed for variable speed pumps) via the controller's PUMP socket and is primed, then use the ↑ or ↓ buttons to select either SET AUTO or SET MAN and press the Enter button.  If you select SET AUTO - the unit will display the pump's load value for 5 seconds then automatically sets the threshold levels and returns to automatic operation. If the current draw of the filtration pump drops below the selected threshold levels then the solar pump is forced to switch off.  If you select SET MAN the unit will display the pump's load value for 5 seconds, take note of this value. When the LCD screen displays RUN=>xxx it indicates the minimum load required to allow solar to run, set this value 15% lower than the displayed LOAD value.  Note - SET MAN is usually the best option when setting the pump load settings for a variable speed pump as the load value can fluctuate more.

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.  Default setting is NO.
BOIL PROTECT? NO/YES (Range 55°C - 99°C) (Range 3 - 59mins)	Anti-boil function.  If you select NO, the next option will be offered.  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.
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.  Note – Pipe Protection will not be offered if Boil Protection has been turned ON.
CALIBRATE POOL SENSOR BY:	X.X (RANGE -5.0 TO +5.0°C) This is for the + series sensor only (TS02P).
NOTES:	<ol> <li>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.</li> <li>If a sensor fault is detected, the controller displays which sensor and what the fault is.</li> <li>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.</li> <li>If the controller has stopped the pump 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.</li> <li>MAX combined rated output load for the 240V socket(s) is 9.98 Amps / 2395 Watts.</li> <li>Degree of protection against moisture: IP33.</li> <li>Store pool chemicals safely, at least 3 metres away from all pool equipment.</li> </ol>

#### **TROUBLE SHOOTING**

#### NO POWER TO THE DISPLAY:

Power point is faulty. 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 the controller for repair.

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, then turn it off for ~30 seconds before turning it back on.

#### **PIPE/ROOF SENSOR FAULTS:**

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

#### SENSOR DISCONNECTED OR OPEN CIRCUIT

Sensor cable unplugged from controller, cable damaged, bad cable join or sensor is damaged.

#### 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.

#### **ISOLATING SENSOR FAULTS:**

Swap the sensor locations. Put the pipe sensor in the roof socket and the roof sensor in the pipe socket.

If the fault moves from pipe to roof or vice versa then it is likely that there is a sensor fault.

If the fault remains the same then the controller may need to be repaired.

#### **PUMP FAULTS:**

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

#### SOLAR 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 winter-mode or for manual mode operation. If the pump does not operate then plug the pump into a power point and test operation, if the pump is OK then the controller requires repair.

If the controller is showing a "No Flow" error message, check to ensure chlorinator and filtration pump are plugged into the Filter socket and that the filtration pump is running. If a "No flow" error message is displayed and the filtration pump is running, reset the Pump Load Settings as described in INSTALLER SETUP.

#### 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 240Vac socket marked SOLAR 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. The controller may be running for heating purposes.

If the pump is still running, and the controller states that nothing should be running, your controller requires repair.

#### FILTRATION PUMP WILL NOT START:

Ensure that the filtration pump is plugged into the Chlorinator properly and the Chlorinator is plugged into the Aquasmart5 RTA FILTER power socket properly. Check the filtration times set in the Aquasmart5 RTA controller, adjust if required.

Check the power to the FILTER socket by pressing the Mode button until Filter Manual appears. The controller should turn the Chlorinator and Filter pump on for a 3min backwash.

If it still won't start plug the filtration pump straight into a power point and turn on. IF the pump doesn't start then you have an issue with your pump. If the pump is ok, your controller requires repair.

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#### **TROUBLE SHOOTING CONTINUED**

#### **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.

Check the controller LCD screen to see if any sensor faults are present and fix as required.

If the controller is in Standby Mode, the controller won't heat the pool using solar heating, no matter what the roof temperature is. If it is consistently warm enough, switch the controller back into Heating Mode to start heating your pool.

Check the controller settings to ensure that the AUX temperature and runtime settings are correct.

Check and ensure that the Heater Interlock cable is connected to the plug properly and that the plug is pushed in.

Check and ensure that the Heater Interlock cable is connected to the appropriate position inside the heater, according to the heater manufacturer's instructions.

Check and make sure that the heater has power connected.

#### **VALVE ACTUATOR NOT TURNING:**

Check and ensure that the wires are screwed into the plug properly and in the correct order (Red, Black, White, from left to right with the screws of the plug facing upwards towards you).

Check and ensure that the plug is pushed into the Valve socket properly.

Check and ensure that the toggle switch of 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 ready.

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, then you controller needs repair.

#### **FACTORY RESET:**

Hold down ENTER when power is off, hold down after powering up, releasing after 5 seconds.

#### **WARRANTY**

- This range of product is covered by a limited 3 year warranty against component failure or faulty workmanship from the date of installation.
- Faulty units should be returned in the first instance to the dealer from which the unit was purchased. (Return to Base)
- Damage to the unit due to misuse, power surges, corrosion from pool chemical fumes, lightning strikes and or installation that is not in accordance with the manufacturer's instruction may void the warranty.
- Warranty does not include on-site labour or travel costs to or from installation site.
- Valves and actuators are covered by a 12 month warranty at the discretion of their manufacturer.

If the power cord is damaged, do not use the controller. Return the unit to the supplier for repair.

**CUSTOMER RECORD (To be retained by the customer)** 

DEALER/INSTALLER NAME

SERIAL NUMBER

DATE INSTALLED

For service assistance visit www.dontek.com.au

## **Dontek Electronics Pty Ltd**

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