HOW YOUR HEAT PUMP WORKS IN BRIEF

Your heat pump will not operate unless the filter pump is running. When the filter pump starts the movement of water through the heat pump activates the flow switch. The switch is de-activated when the filter pump stops. The pool temperature is controlled by an electronic controller, which reads the pool temperature while the filter pump is running.

OPERATING INSTRUCTIONS

To economically heat your pool at the start of the season, set your filter pump time clock for the hours you will be filtering your pool. Run the filter and the heat pump continuously until the pool reaches required temperature (3 to 5 days). This will be done automatically if you have installed our time clock bypass controller. The filtration and heating will then automatically run each day as long as necessary to maintain the pool temperature. You will always have pool filtered for the duration of the time clock settings. During summer the heat pump will run less than the filtering time.

If a standard time clock is used on the filter pump then initially this will require bypassing to allow the continuous heating. Once the pool has reached the temperature the time clock requires readjusting to how many hours you think it will take (say 12 hours) to maintain the pool temperature. It will take a few days to get this worked out.

If you have a salt chlorinator fitted; but have not invested in our time clock bypass set up; during the initial heat up time TURN OFF the chlorinator or operate the chlorinator on a day to day basis. The reason is the salt chlorinator always produces chlorine while the filter is running; therefore you can over chlorinate your pool. It is well worth the investment to enhance your installation.

END OF SEASON SHUT DOWN

Simply turn heat pump off at isolating switch. We recommend the pool is filtered and chemicals maintained during the winter months.

AT START OF SEASON

Turn heat pump on, refer to above

TEMPERATURE CONTROL

Read/Modify function of the set point

1. Press SET and hold for 1 second. ST1 will be displayed. On releasing the button Set Point1 value will be displayed.
2. Press arrow UP or DOWN to set the desired value.
3. Press SET to confirm the value.

POWER LIGHT

This red light simply glows as long as power is present at the heat pump.

NOTE: Heat pumps produce large quantities of condensation from air. This will run out of the drain holes provided and can be piped away.

TROUBLESHOOTING	PROBABLE CAUSE	POSSIBLE SOLUTION
No red light	No power supply.	Check fuse / circuit breaker
Red light is on, but the display is not functioning	No water flow through heat pump.	Check filter pump is running, check flow switch inside heat pump
The pool never reaches the desired temperature	Controller is set too low	Adjust the controller set point
	Not enough running time	Extend filtration hours
	The desired temperature is higher than what the heat pump was sized to achieve	Keep the cover on for longer periods of time
The pool is warm but the heat pump fails to turn off	The probe is not properly placed or seated properly	Seat the probe as shown in the swimming pool manual
	Controller set point is above an achievable temperature	Adjust the controller set point down to 28°C
The water is cold	There is no power	Check fuse/circuit breaker or isolating switch
	The set point is set too low	Set controller to 28°C
	The heat pump has stopped on safety	Check water flow through heat pump flow switch
There is ice on the fins at the back of the heat pump	The ambient temperature is very low	This is a natural function in cold weather. The active defrost function should melt the ice within minutes of the de-ice controls automatic activation
	If the weather is warm the heat pump may be low on refrigerant	Contact Hot Water Heat Pumps Ltd or your nearest service agent
There is water around the heat pump	Condensation	This is a natural function of the heat pump in humid conditions. Condensation forms on the coil and drains into the inbuilt drain tray. A tray could be placed below the unit to catch the water to be piped away
	Possible water leak from connections to the heat exchanger in the top of the unit	Check under the lid of the unit for any sign of water in the top part of the heat pump. Prolonged exposure to pool water will cause damage to the heat pump if neglected. Contact your nearest service agent

If you are in doubt as to an issue of the performance of your heat pump, please contact Hot Water Heat Pumps Limited or your nearest service agent.