



AQUA-WORLD

Wood Pools

Air Source Heat Pumps

GENERAL

The air source heat pump does not have a heater in it.
The water is circulated through the heater by the pump from your sand filter set.



The heater will only operate if it has flow of water NOTE it can take upto 30 seconds for it to recognise the water flow before the in-take fan kicks in.

The heater uses the ambient air temperature to increase the temperature of a refrigerant liquid sealed inside the unit.

The pool water is circulated around the unit to remove the heat and add it into the pool.

The warmer the air in-take air temperature the more efficient the heat exchange into the pool.
Even at -10 DegC air temperature the heater will add heat to the pool.

REMEMBER! To maximise the operation of the heat pump its important that you look to reduce heat loss from your pool. Use covers, add insulation to the outer and reduce wind chill over and around the pool wherever possible.

INSTALLATION

CHECK ELECTRICS

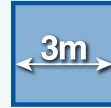


Always use a qualified electrician to undertake the electrical installation

Heaters upto 12.5kw only use 2.5kw electricity from a 16A supply

We recommend hard wiring to a separate waterproof RCD fused spur. DO NOT run from an extension lead under any circumstances.

CHECK LOCATION



There needs to be at least 3m free space on the outlet from the heater for the cold air to escape.



In addition, there needs to be a minimum of 0.5m clear space around the intake side and end of the heater.

HOW DO I KNOW IF THE HEATER IS ON?

If the TIME is displayed on the control panel the heater is OFF

If a TEMPERATURE is displayed on the panel the heat unit is ON

HEATER APPEARS TO BE FROZEN UP

Check your free space around the heater, especially in the outlet. If the cold outlet air is 'hitting' an obstruction like a fence panel or vegetation it will bounce round back to the inlet. This will significantly reduce the efficiency of the heater and cause it to freeze up.

During cooler times of the year cold temperatures overnight can cause the heater to freeze. This is normal with low over night ambient air temperatures. Your heater (if fitted) will have an auto defrost function that will defrost the unit.

I HAVE AN EE3 CODE ON THE DISPLAY? (Flow Fail, caused by insufficient water flow to the heater)

CHECK CONNECTIONS



IN should be into the bottom of the heater and OUT from the top back to the pool.



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CHECK WATER LEVEL

Water in the pool should be minimum ½ way up the skimmer box when the pump is running.

Less than this you will get a flow fail reading.

CHECK SKIMMER BOX

Ensure skimmer box is free from obstructions.

NOTE: the round vacuum plate with hose tail should **NOT** be in the skimmer box.

THERE APPEARS TO BE A POOL OF WATER UNDER MY HEATER!

This is perfectly normal it does not mean that your heater is leaking.



During hot humid days the heater can discharge several litres of condensate water during normal operation

You may wish to consider fitting the drain valve and pipe to drain away.

IS THERE A TIMER ON THE HEATER TO CONTROL ON/OFF?

There is but we would recommend not using it. Because the heater only works with a water flow it is much simpler to set a timer on the water pump on your sand filter.

THE HEATER SEEMS TO BE RUNNING OK BUT MY POOL WATER IS NOT ANY WARMER!

CHECK TIMER

It is possibly that you may have inadvertently set the timer (see instructions below).

CHECK AMBIENT AIR TEMPERATURES

It is possible at certain times of the year, particularly over night that ambient air temperatures maybe very low. If this is the case the heater will be working to maintain heat rather than increasing it.

CHECK RETURN FLOW INTO POOL

With the pump running place your hand inside the pool next to the return jet of water flow, you should be able to feel warmer water especially if you try to restrict the flow for a few seconds with your hand.

HOW DO I KNOW IF THE TIMER IS INADVERTENTLY OPERATING?

Firstly, timer lights on the heater display panel should **NOT** be on or illuminated.

To switch them **OFF**:-

With heater switched OFF (should be displaying just the time)

If TIMER **ON** light is ON (illuminated), Select TIMER ON, then select CLOCK Button and the TIMER ON illuminated light should go OFF.

If TIMER **OFF** light is ON (illuminated), Select TIMER OFF, then select CLOCK Button and the TIMER OFF illuminated light should go OFF

Now switch heater ON, temperature should display and with the pump running the fan should cut in after approximately 30 seconds.