



**Cloverleaf
Pond Heater
Operating Instructions**

IMPORTANT : Notice Please Read
Before Installing and Power on !



This item must not be disposed of into the domestic waste. Please ensure it is disposed in an authorized place for recycling of with electrical and electronic appliances. Resources, And make sure the product is disposed in an environmental friendly way.

1. General

This heater is especially for use on Ponds. it is very simple to install and use the Heater, But the basic safety Precautions should always be followed.

2. Installation !

The Pond Heater should be connected to the outlet of the pond pump making sure the water is flowing in the direction shown on the Pond Heater. This Heater must be installed horizontally. Dimensions and of the pond heater Refer to (Fig.1)

3. Heater installation (Fig.3)

Separate the connection nut, And join the feed pipe to the heater making sure the Sealing ring is in the correct position and screw up the compression nut (make sure not to over tighten). Loop pipework to preventing Heater unit from draining (Fig.6).

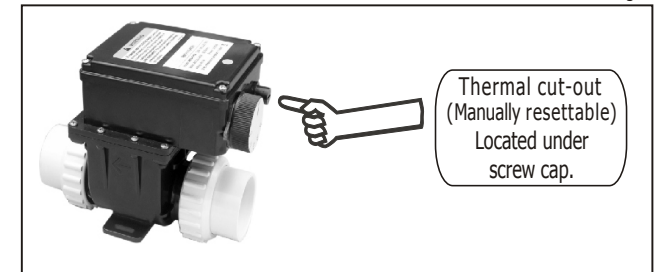
4. Electrical Connection ⚡

- 4.1 The electrical installation should have an all poles disconnection System with contact opening at least 3mm.
- 4.2 For continued protection against possible electric shock this Pond Heater unit is to be mounted in accordance with the instillation instructions.
- 4.3 For the protection of the system this heating unit should be wired on to a Residual Current device (RCD) with a rated tripping current not exceeding 30mA. The supply cable should comply with EMC standards.

- 4.4 The electrical installation Must be carried out by a qualified electrician Following strict standards.
- 4.5 Be sure that the earth cable connection is correctly made.
- 4.6 Wires serving as equipotential bonding conductors shall have a cross section area between 2.5mm and 6mm.
- 4.7 After the unit has been wired up turn on the power and press the reset button of the GFCI, (Ground Fault Circuit Interrupter) the GFCI works and cut the power, Then repress the reset button on the GFCI to reconnect the power. If the above operations do not work check the GFCI connections, turn off the power supply until the problem is solved and "RESET" Appears.

 WARNING	1. ⚠️ DANGER :RISK OF ELECTRIC SHOCK Connect only to a circuit protected by a RCD Unit.
	2. Grounding is required.
	3. This product must be installed by a qualified electrician.
	4. Do not cover the heater when in use.
	5. When using for the first time , Ensure all pipe work is full of water and primed before turning the power on.
	7. Children should be supervised to ensure not to adjust the heater settings.
	8. Do not switch on if there is a possibility that water inside the heater is not frozen
	9. IP45 Rated
	10. Save these instructions.

Fig.4



CAUTION: In order to avoid a hazard due to inadvertent resetting of the thermal cut out, this Pond heater must **NOT** be powered through an external switching device, such as a timer, Or connected to a power supply circuit that is regularly switched ON and OFF.

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Pond Heater Operating Instructions

**IMPORTANT : Notice Please Read
Before Installing and Turning on !**

Models
CL-PH1kW
CL-PH2kW



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5. Controls and Operations

5.1 Due to the safety flow switch that is installed on this unit, the heating elements will not operate unless the correct amount of flow is being pumped passed the flow switch. (A minimum of 4000Lph of water is needed to trigger this switch).

5.2 Reset Button is depressed inside the thermostat during normal operation (Fig4)

Should for any reason the reset button pop out and cut the power supply. The thermostat will have to be manually reset, After firstly trouble shooting any faults if in any doubt always consult with a qualified person.

The minimum continual operating flow rate 4000Lph is needed to operate heater.

6. Controls Prior To Initial Start-Up

6.1 Check the direction of flow of water is set to same direction as is indicated by a directional arrow on the side of heater unit.

6.2 Check that the mains voltage and frequency are in Accordance with what's on the model ID Plate. (Fig.5)

6.3 After you have finished installing your Heater it will be necessary to check there are no leaks at any of the joins or connections do this by turning on your system pump and allow the pump to run for 30-60 minutes without turning on the heater at this point to ensure that there are no leaks this will also allow all trapped air to be expelled from the heater this will to avoid any unwanted hot spots inside the heat exchange chamber.

7. Start Up

Turn the pump and heater on **Only!** when inlet and outlet pipes are connected to the corresponding feed and return pipes.

8. Maintenance, Cleaning and Storage

8.1 The Cloverleaf Pond Heater does not require any special maintenance or programming, If the heater is to be left idle for a period of time. We would be recommend to disconnected and Clean and dry the heater before storage, Store in a dry well ventilated place.

8.2 If any reason the mains power lead gets damaged it must be replaced by a qualified electrician.

9. Technical Data

Model	Power (Wattage)	Pond water Volume	
		Gallon	Litre
CL-PH1kW	1000	1000	4540
CL-PH2kW	2000	2000	9080

10. Heater Dimension

Fig.1

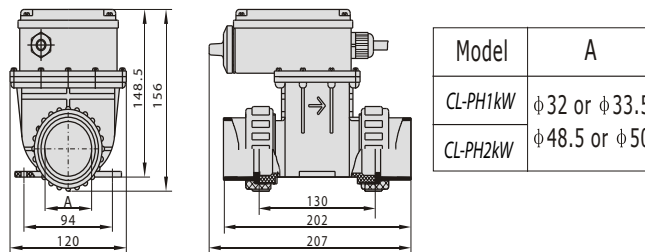


Fig. 2

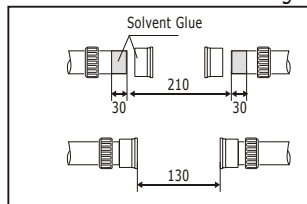


Fig. 3

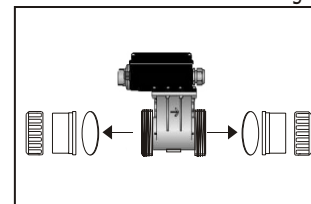


Fig. 5

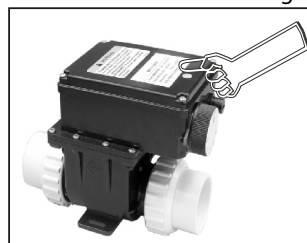


Fig. 6

