

# **iFlo Series POOL PUMP**



**OWNER'S INSTRUCTION MANUAL**

## 8. Problems and Solutions

### POSSIBLE FAULTS

1. The pump does not prime
2. It has a low flow rate
3. The pump makes a strange noise
4. The pump does not start
5. The motor makes noise but does not start

| 1 | 2 | 3 | 4 | 5 | Causes                              | Solutions                                     |
|---|---|---|---|---|-------------------------------------|---|
| X | X |   |   |   | Air Entry                           | Verify watertightness of connectors and seals |
| X |   |   |   |   | Incorrect Watertightness of Cover   | Clean the cover and verify the seals          |
| X | X |   |   |   | Excessive Suction Height            | Set the pump to a suitable level              |
| X | X |   | X |   | Incorrect Voltage                   | Verify the voltage on nameplate and mains     |
| X |   |   |   |   | No Water in Prefilter               | Fill prefilter with water                     |
|   | X |   |   |   | Clogged Filter                      | Clean the filter                              |
|   | X | X |   |   | Section Line Dia. Smaller than Req. | Correctly re-dimension the centre line        |
|   | X |   |   |   | Clogged Discharge                   | Inspect the filter and discharge line         |
|   |   | X |   |   | Incorrect Pump Attachment           | Attach pump correctly                         |
|   |   | X |   |   | Refuse in Pump                      | Clean the pump and inspect the filter         |
|   |   |   | X |   | No Tension                          | Reset the fuses                               |
|   |   |   |   | X | Motor Blocked                       | Seek professional advice                      |

## 5. Starting the Pump

1. Check that the mains power voltage and frequency correspond to those indicated on the identification plate on the pump.
2. Check that the pump shaft turns freely.
3. Unscrew the pump lid and fill the pump with water up to the lower level of the suction pipe.
4. Screw the lid firmly back in place.
5. If the motor does not start or if no water is extracted, refer to the table of possible failures and remedies on the following pages.
6. Never operate the pump when there is no water present or with the water inlet blocked. The pump should not be run dry.
7. After filling the pump with water, open all the suction and delivery valves and start the motor. Wait for self-priming to take place. The pump is correctly primed when the water level is just below the transparent cover.

## 6. Servicing

Our pumps require no particular servicing. It is nevertheless recommended to clean the pre-filter periodically. This is a simple operation, close the suction and delivery valves, loosen the black nuts and remove the pre-filter cover gasket and replace it if damaged. If the pump is not used over the winter period, it must be emptied (by opening the drain plug) to avoid damage through freezing, cleaned and stored in a dry and well ventilated area. In the event of failure, do not try to repair the pump, seek professional advice. Be sure to disconnect the pump from the electric supply before any servicing is carried out.

## 1. General

This manual provides information relating to the installation, use and maintenance of this pump.

We recommend that you read it and keep for future reference.

These self priming centrifugal pumps are for permanently installed pools and must be fixed horizontally. Installing a non-return device will result in immediate priming. For the pumps to function correctly, the water temperature must not exceed 35°C. The materials used in our pumps have undergone stringent hydraulic tests and electrical inspections.

Read this manual carefully before installing the pump. It must be installed in accordance with current regulations and procedures.

We decline all responsibility for the consequences of failure to comply with the electrical connection diagrams in avoiding overload of the pump motor.

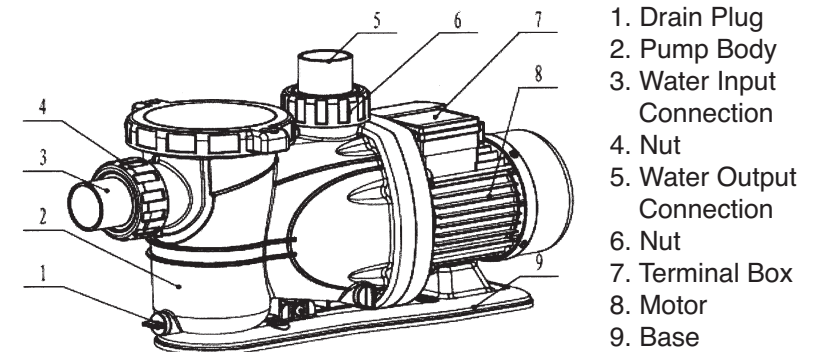
### EVIDENCE OF CONFORMITY

These products are complied with the following directives:

Electromagnetic Compatibility 2004/108/EC, Low voltage 2006/95/EC and two European Standards.

EN 60335-1 and EN 60335-2-41

Directive WEEE directive 2002/96/EC, ROHS directive 2002/95/EC.



**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

## 2. Pump Installation

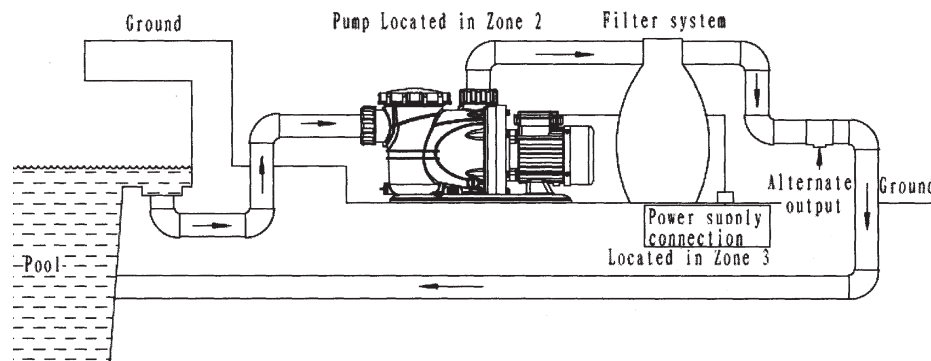
### Caution

**You should make sure that the pump and terminal connections are protected from moisture and possible flood damage.**

Installation of the pumps is only authorized in swimming pools that comply with current regulations. The pumps are usually installed between the skimmer and the pool filter. They must be positioned as close as possible to the water level to minimize the suction distance and reduce head losses.

It is recommended not to install the pump more than 3 metres above the water level. Independently of the height of the pump above the water and the capacity of the chosen model, priming can take several minutes.

The pump must be mounted on a firm base and be installed with the shaft in the horizontal position with the pre-filter cover on top. Make sure that the transparent cover is accessible so that it can be removed with the filtering basket for cleaning. Pumps must be installed in a dry, well-ventilated area and sheltered from the rain.



## 3. Pipe Installation

If plastic pipes are used, they must be sealed using PTFE tape.

The diameter of the delivery and suction pipes must be greater than or equal to that of the pump inlet and outlet ports. Try to limit head losses by minimizing the length of the suction pipe and avoiding having bends and twisty pipe routings where possible. Unions must be new and perfectly clean to guarantee absolute tightness. The delivery and suction pipes must not under any circumstances induce mechanical loads on the pump. It is recommended to install suction and delivery valves in order to isolate the pump.

## 4. Electrical Installation

The user should make sure the effectiveness of protective earthing of the building installation is carried out. In such a case, a qualified electrician should inspect the building installation.

It is obligatory for the pump electrical power supply to have a residual current device (RCD) having a rated residual operating current not exceeding 30mA. The power cable must comply with type H07 RN-F, 3 x 1mm<sup>2</sup>.

Single-phase pump motors have a built-in thermal protection device.

Never work on a pump without first checking that the electrical power is switched off.

### Caution

**The pump must be located usually 2 metres away from the pool and the power supply connection for the pump must be located usually 3.5m away from the pool according to the requirement stated in International Standard: Electrical installations of buildings - Part 7: Requirement for special installations or locations - Swimming pools and other basins (IEC60364-7-702)**

In spite of the earthing terminal, the swimming pool pump must have its equipotentiality terminal connected to the electric wiring before it is put in to use. This terminal is marked with the symbol below. If you have any doubt please contact your electrician.



The pump is to be supplied by an isolating transformer or supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA. The electrical installation should comply with the national wiring regulations. If the supply lead is damaged, it must be replaced by the manufacturer, its service agent or fully qualified electrician in order to avoid a hazard.

There must be an all-pole disconnection switch directly connected to the supply terminals and should have a contact separation in all poles.

If you have any doubt please contact your electrician.

Please seek professional advice for installing the swimming pool pump.