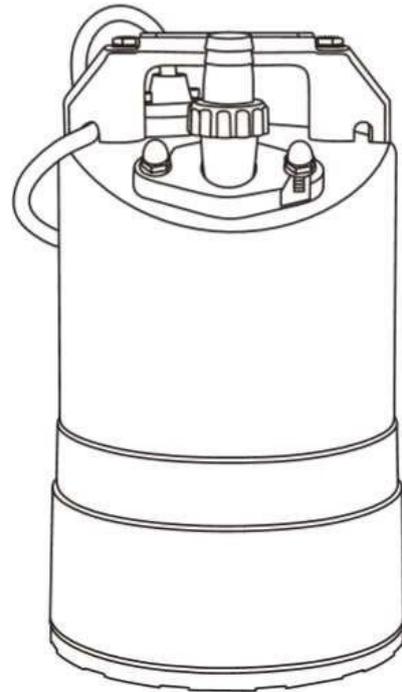
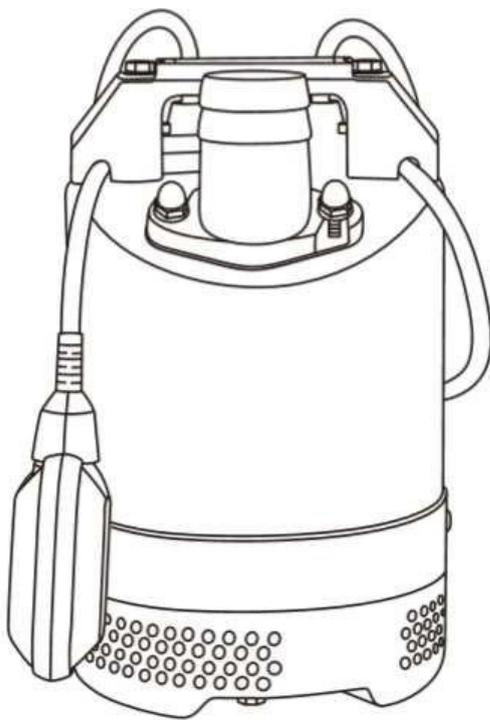


STARING



Pump Operation Manual

STP2-480 DW (EU/UK)

STP2-450 (EU/UK)

**A better
workday!**

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WARNINGS

Please pay careful attention to the following warnings signs and indications.



Only qualified, licensed personnel should install pump. The electrical installation shall be in accordance with the national wiring rules (AS/NZS 3000)



The pump operator must be provided with this manual. This must be read before and during operation.



These instructions are a guide only. Users not familiar with pumping equipment should seek advice from people experienced in pump equipment and installation



These instructions are a guide only. Users not familiar with pumping equipment should seek advice from people experienced in pump equipment and installation.



The pump is designed to be used with clean water in a residential application. Do not use it with alternative fluids, specifically abrasive, corrosive or explosive fluids. Do not install or operate your pump in an explosive environment or near combustible matter. Do not pump hydrocarbons with this pump.



Incorrectly installed or tested equipment may fail, causing severe injury or property damage.



To avoid burns when handling the motor, let it cool for at least 20 minutes before trying to work on it. A thermal overload switch protects the motor from heat damage during operation. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard



Pollution of the liquid could occur due to leakage of lubricants from pump



The pump is electrically connected. Ensure that it is isolated from electrical supply during installation and any subsequent service work



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 do ensure they do not play with the appliance



The pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA

CONSTRUCTION

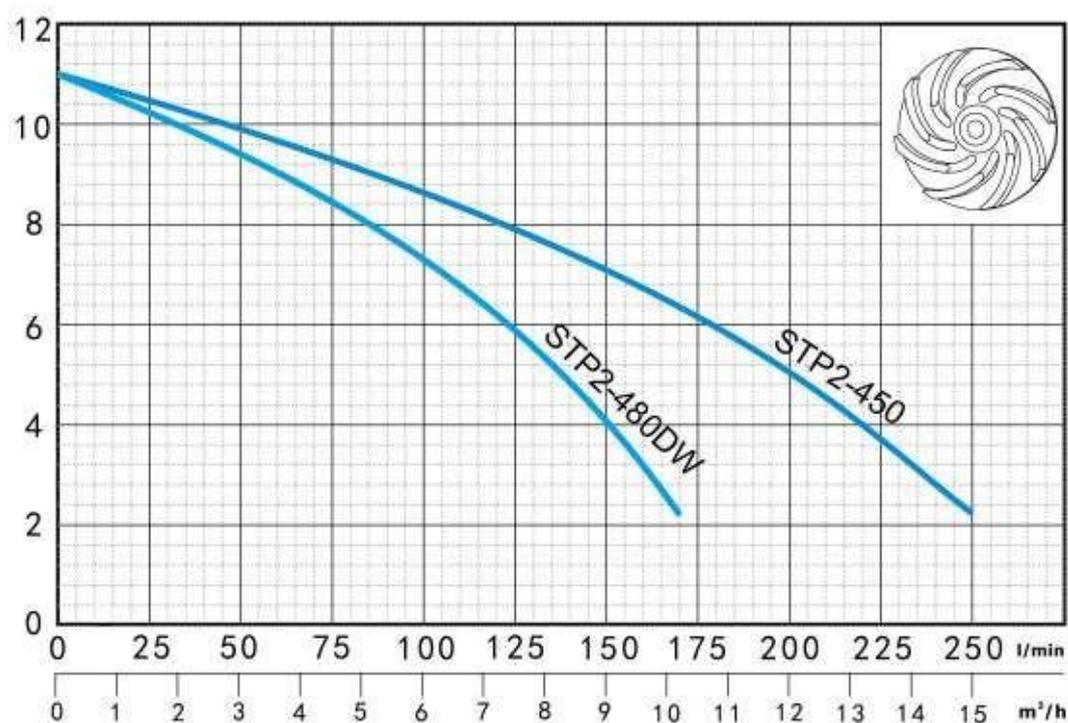
| | |
|------------------------|-----------------------------------|
| Pump Housing | Fe 360A |
| Pump Shaft | S.S 304 welding |
| Mechanical Seal | Graphite/ Ceramic (dual deal) |
| Pump Casing | AISI12 |
| Power Cable | H07RN-F |
| Float Cable | H07RN-F |
| Motor Housing | AISI12 |
| Impeller | NBR with stainless steel inserted |

USAGE LIMITATIONS

| | |
|--------------------------------|---|
| Type of liquid | clean water with no suspended abrasive material, PH value:6.5-8.5 |
| Max liquid temperature | 40°C |
| Max Submersion Depth | 6m |
| Max. Diameter of solids | Not bigger than 7mm |
| Protection Class | IP68 |
| Insulation Class | B |

TECHNICAL DATA

| Pump Model | Power (W) | Outlet Diameter (mm) | Voltage V/HZ | Max. Flow (l/min) | Max. Head (m) | G.W (kg) |
|-----------------|-----------|----------------------|--------------|-------------------|---------------|----------|
| STP2-480DW (EU) | 450 | 25 | 230/50 | 175 | 11 | 13.2 |
| STP2-450 (EU) | 450 | 50 | 230/50 | 250 | 11 | 12.2 |
| STP2-480DW (UK) | 450 | 25 | 110/50 | 175 | 11 | 13.2 |
| STP2-450 (UK) | 450 | 50 | 110/50 | 250 | 11 | 12.2 |



PREPARING FOR INSTALLATION

Inspect your pump, ensuring that it is well packaged and has not been damaged in transport. If the pump is damaged, report it to our branch where the pump was purchased. Warranty of these pumps is void unless they are operated in accordance with these instructions.

For electrical and model details see the pump name plate.

Do not use the electrical cable to lift or transport the pump. You must use the handle on top of the pump to lift the pump.

INSTALLATION

1. Locating the Pump

Using the handle at the top of the pump, connect a nylon rope or a stainless steel cable suitable to sustain its weight. Anchor the other end of the rope or cable so that it balances the weight of the pump as it rests in its final position at the base of the tank/pit/well.

2. Power Source

If the pump is being installed in a permanent position arrange for an electrician to install a 10A weather proof outdoor power point near the pump if there is not one there already.

3. Suction

Ensure that the float switch can move freely within the tank/well/pit and cannot become trapped. The PUMP should be positioned on a hard surface that is elevated from the base of the tank/pit/well. This is to keep the pump inlet clear of sediments which may be present in the bottom of the pit.

4. Discharge

It is advisable to fit a check valve on the discharge piping to prevent fluid from re-circulating when the pump has stopped.

If you are using a hard discharge pipe, screw this into the outlet of the pump housing. If you are using a flexible discharge hose, use hose clamps to secure this to the fitting provided.

The length and diameter of the discharge hoses/pipes will affect the pressure and flow rate at which your pump operates. A larger diameter hose or pipe will give less resistance to flow and allow for best performance. Pressure ratings of all components must exceed the maximum pressure of the pump by an appropriate safety factor. All pipe work should be supported independently of the pump.

Connect power plug to a suitable outlet. The pump will operate when the float is higher than level and stop operating when pump float is in the low position.

If the pump must be removed from the pit, use the nylon rope or stainless cable used to install it to lift it. Do not use the power cable or float switch to lift the pump.

TROUBLE SHOOTING GUIDE

| Symptom | Cause | Remedy |
|--|---|--|
| Pump does not start | Float switch isn't in the on position | Wait until there is enough water in the pit to start the pump |
| | Float is caught on something and can't rise above level | Ensure that the float can move freely |
| | No power supply | Ensure that the pump is connected to live outlet |
| | Pump is blocked | Check fuses and circuit breakers Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter |
| No water from pump | Blockages in the pump or discharge | Disconnect the pump from the power outlet, and check the pump housing and discharge for foreign matter |
| | Air trapped in pump not venting through anti-airlock hole in pump casing | Unplug pump and ensure air lock hole is clear. Restart pump. |
| | Excessive lift | Ensure that the height that you are trying to lift water is within the pump's capacity. A larger pump may be required. |
| | Not enough water in the pit to pump | Wait until there is enough water in the pit. Ensure the float switch is operating freely. |
| Pump will not stop, even though there is little water in the pit | Float switch is trapped in the 'up' position | Ensure that the float can move freely |
| | Float switch is faulty | Replace the pump |
| Pump runs intermittently; Thermal protection inside the pump is tripping and resetting | The pump is not completely submerged | Ensure pump is covered with water |
| | Water temperature is too high | Ensure that the water temperature limits are observed |
| Pump runs intermittently | When the pump shuts off, water in the discharge line is running back into the pit, lifting the float switch | Fit a non-return valve at the pump discharge so that water cannot return to the pit |

SERVICE



- Pump should only be serviced by qualified personnel. For best results, use only genuine service parts.
- To avoid dangerous or fatal electrical shock hazard, turn OFF power to motor and remove plug from power outlet before working on pump or motor.

WARRANTY

warranty. This warranty covers faults in the product construction, material and assembly. Faulty products will be repaired or exchanged free of charge. Faulty items become our property.

This warranty **DOES NOT** include faults caused by

- Unsuitable or improper use
- Incorrect installation
- Inadequate or complete lack of maintenance
- Chemical, electrochemical or electrical influences

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