



## **AS SERIES SUBMERSIBLE PUMPS**

### *OPERATING INSTRUCTION MANUAL*

## Unpacking And Inspection

Handle with care. Check the items received against the packing list to be sure that all equipment has been received. Inspect the pump for shipping damage. If any is found, file a claim with the carrier immediately.

### GENERAL SAFETY INFORMATION

#### READ AND FOLLOW SAFETY INSTRUCTIONS

Please take notice of the safety alert symbols on the pump and in this manual.



This is the safety alert symbol. When you see this symbol on your pump or in this manual provide information required for safe operation of the pump and instructions for preventing danger or injury to you or other people.



Warns about hazards that can cause serious personal injury, death, or major property damage if ignored.

Note: Indicated special instructions that are important but not related to hazards.


The pumps are not suitable for potential explosive environment. Non-explosion proof pumps

Read these instructions prior to taking any action to move or install this pump.

Having read the instruction we recommend that they are stored safely for future use.

#### Identification of the pump

Before proceeding we strongly recommend that you should check carefully with pump nameplate/ model for proper application.

				
MODEL				
P <sub>1</sub>	Kw ( HP )	TENSION	V	
FREQUENCY	Hz	CURRENT	~	A
H. min	m	Q. max	l/min	
H. max	m	Q. min	l/min	
μF	μF	MFD		
IP	68	CL	F	WEIGHT kg

1. To avoid serious injury and/or property damage, read these rules and instructions carefully.
2. Check your local codes/national regulations before installing. You must comply with their rules.
3. Do not run the pump dry. Dry running may deteriorate the pump and void the warranty.

“Warning” Hazardous voltage can shock, burn, or kill. During operation the pump is in water. To avoid fatal shock, proceed as flows if the pump needs servicing:



Electrically ground the pump to a suitable ground such as a grounded water pipe, a properly grounded metallic raceway, or a ground wire system.



Do not lift the pump by the power cable.



Disconnect the power from an outlet box or a circuit breaker before servicing.



To reduce the risk of electric shock, take care when changing fuses or resetting a circuit beaker. Do not stand in water when working on the control box or with the circuit breaker.



Pumping Liquid temperature arrange should be 0~40°C.

## **Installation**

For pumps intended to be used in outdoors fountains, garden ponds and similar places, the pumps are to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.

If the pumps for cleaning and other maintenance of swimming pools:

- the pump must be not used when people are in the water
- be supplied by an isolating transformer
- the pump must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.

## Piping

Piping must not be smaller than the pump discharge.

The pumping must be capable of handling semi-solids

The flow rate in the discharge pipe must keep any solids present in suspension in the fluid. To meet this requirement requires a minimum velocity of 0.6m/sec (2ft/sec).

## ELECTRICAL



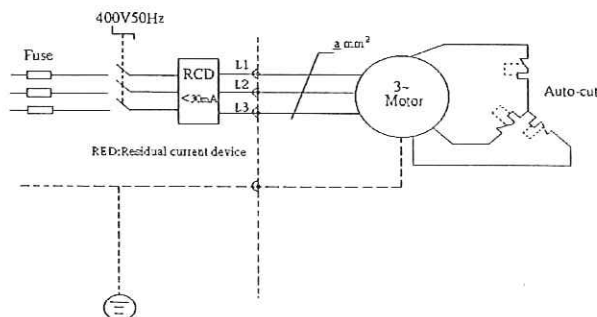
Electricity is dangerous. It can burn, shock, or cause death. When installing, operating or servicing this pump, follow the instructions below. Only trained service personnel should service this pump.



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.

1. DO NOT splice the power cord.
2. DO NOT handle or service pump while it is connected to the power supply.
3. DO NOT operate unless it is properly grounded.
4. Make sure that the frequency and voltage shown on the nameplate corresponds to the frequency and voltage of the electrical supply. Incorrect voltage can cause a fire or seriously damage the motor and voids the warranty. If in doubt consult a licensed electrician.
5. The pump must rotate in a clockwise direction and never operate in reverse. If pump runs in reverse during pre-installation check change two of the three phases on a three phases motor to achieve correct rotation. **WARNING** Keep hands out of the impeller when checking the direction of rotation.
6. For automatic operation, wire pump into an automatic float switch or pump controls panel. For manual control wire into a suitable motor starter.
7. Connect pump to its own circuit with nothing else on the same circuit.
8. Install pump in accordance with all applicable electrical codes. Install a fused disconnect switch or a circuit breaker.

## Wiring Diagram



## Power Circuit

1. Used a control panel or starter, whose capacities meet the requirements of the pump.
2. Refer to the above wiring diagram for connection details.

## Operation

Put directly the pump in the fluid for removing the fluid.



Do not dismantle the strainer, accidental rotation of the impeller with hands in the impeller area can cause loss of fingers

An automatic overload protector in the motor will protect motor from burning out due to overheating/overloading. When motor cools down overload protector will automatically reset and start motor.

If overload trips frequently, please check for cause, it could be a stuck impeller wrong/low voltage, bad thermal overload protector or an electrical failure in motor. If an electrical failure in the motor is suspected, replace stator and shaft assembly.

**Lubrication:** The motor bearings are of the sealed type.

Do not allow pump to run in a dry sump. It will void the warranty and may damage the pump.

Pump is permanently lubricated. No oiling or greasing required.

## Maintenance

Verify the capacity of the pump, by checking the discharge fluid during a use

Verify that the pump is free from any abnormal vibration and noise during a use.

If any abnormal situation happened, please contact the authorized agent or a qualified person for a service.

The normal user is not allowed to dismantle the pump to do any repair/service works without any knowledge/training about the pump and relevant safety.

Only qualified person with proper tools and knowledge should attempt to service this pump.



**Hazardous voltage and possible unexpected starts. Disconnect the electrical power and keep your hands away from the pump inlet opening when working on or handling the pump for any reason.**



**Lift the pump through the handrail by 2 people, and do not lift it by power cable.**

The noise value\* of sound pressure level of each pump:

1.1 Kw: 57.7 dB(A)

1.5 Kw: 57.3 dB(A)

2.2 Kw: 57.3 dB(A)

3.7 Kw: 65.7dB(A)

※ The pump is tested in the air without fluid involved. No sufficient noise of pump itself if pump under water.

**GB**

## EC declaration of conformity

We declare that articles present in this handbook comply with the following Directives:

- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

Applied harmonized standards:

- EN 60034-1/EN 60335-1/EN 60335-2-41/EN 12100-1/EN 12100-2/EN 61000-6-3/EN 62233

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## Déclaration **CE** de Conformité

Nous déclarons que les articles de ce livret sont déclarés conformes aux Directives suivantes:

- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

Normes harmonisées appliquées:

- EN 60034-1/EN 60335-1/EN 60335-2-41/EN 12100-1/EN 12100-2/EN 61000-6-3/EN 62233

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## Dichiarazione **CE** di conformità

Si dichiara che gli articoli del presente libretto sono conformi alle seguenti Direttive:

- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

Norme armonizzate applicate:

- EN 60034-1/EN 60335-1/EN 60335-2-41/EN 12100-1/EN 12100-2/EN 61000-6-3/EN 62233

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## Declaración **CE** de conformidad

Se declara que los artículos del presente libro son conformes a las siguientes Directivas:

- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

Normas Armonizadas aplicadas:

- EN 60034-1/EN 60335-1/EN 60335-2-41/EN 12100-1/EN 12100-2/EN 61000-6-3/EN 62233

**RUS**

## СЕРТИФИКАТ СООТВЕТСТВИЯ ЕС

Заявляю, что изделия, упомянуты в настоящей инструкции, соответствуют следующим Директивам:

- 2006/42/CE
- 2006/95/CE
- 2004/108/CE

Используемые гармонизированные стандарты:

- EN 60034-1/EN 60335-1/EN 60335-2-41/EN 12100-1/EN 12100-2/EN 61000-6-3/EN 62233