


## SILENT Series TYPHOON Series

### Swimming Pool Pumps

#### Instruction manual

## Instruction manual

### Safety precautions

This symbol  together with one of the following words “Danger” or “Warning” indicates the risk level deriving from failure to observe the prescribed safety precautions:



**DANGER**  
risk of  
electric shock

Warns that failure to observe the precautions involves a risk of electric shock.



**DANGER**

Warns that failure to observe the precautions involves a risk of damage to persons and/or things.



**WARNING**

Warns that failure to observe the precautions involves the risk of damaging the pump and/or the plant.

### 1. General

The purpose of these instructions is to ensure the correct installation and best performance of our pumps.

These are single cell centrifugal pumps with built-in filter elements, especially designed for prefiltering and recirculation of water in swimming pools.

They are designed to operate with clean water at a maximum temperature of 40°C. All materials used are of top quality; they are subjected to strict, controls and verified to extremely demanding standards.

Correct compliance with the installation and operation instructions, and with the electrical connection diagrams, will prevent motor overloads and the consequences of all types that could otherwise result, consequences for which we decline all responsibility.



**The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.**

### 2. Installation



The installation of our electric pumps is only permitted in swimming pools or ponds that meet DIN standards VDE 0100 part 702/11.82. In case of doubt, inquire with an expert.

The pump should be installed as near as possible to water level, in horizontal position, in order to obtain a minimum suction path and reduce head losses.

It is not advisable to install the pump at more than 3 m geometrical height from water level.

Independently of the geometrical height and the power of the model chosen, self-priming times may be up to 10 min.

The pump must be fixed on a firm base, with screws of 6 or 8 mm diameter, through the prepared holes in the foot.

The pump should be protected from possible flooding and receive dry ventilation. The pump is to be installed in a manner consistent with the National Wiring Rules.

### 3. Installing the lines

The supports of the suction and discharge lines will be independent of those of the pump.

In the case of plastic lines, ensure tightness of joints and threads with TEFLON tape alone. Glue or similar products should not be used.

The suction line should have a diameter equal to or greater than that of the suction mouth of the pump.

The inside of the suction and discharge holes is threaded to a certain depth. This depth should not be exceeded when screwing on the respective lines. Only new or clean connectors should be used.

The suction lines should be structured with a slight slant to prevent the formation of siphons.

### 4. Electrical connection



The electrical installation should have a multiple separation system with contact opening of a least 3 mm.

The protection of the system will be based on an RCD (I<sub>fn</sub> = 30 mA). If outdoor operation is foreseen, the power supply cord should meet EEC standards (2) or be of type H07 RN-F as per VDE 0250.

Single-phase motors will be equipped with built-in thermal protection. In the case of three-phase motors, the user should provide thermal protection complying with the installation rules in force.

The diagrams in Fig. (1) will allow correct electrical connection.

### 5. Verifications prior to initial start-up



After making the connections defined in the preceding section, unscrew the filter cover and fill the pump prefilter with water to the bottom level of the suction line.

Verify that the pump shaft turns freely.

Verify that the mains voltage and frequency match those specified on the nameplate of the pump.

Set the prefilter cover back in place and screw it to a suitable tightness.

Check that the turning direction of the motor matches that specified on the fan cover. In three-phase motors, if the turning direction is incorrect, reverse two supply phases on the protection panel.

If the motor does not start, try to determine the cause of the irregularity by consulting the list of common faults and their possible solutions, provided in this manual.

**NEVER RUN THE PUMP DRY.**

### 6. Starting

Open all the gate valves and put the motor under voltage. Wait a reasonable time to allow self-priming. Verify the breakaway current and suitable adjust the thermal relay.

### 7. Maintenance



Our pumps do not require any specific maintenance. It is advisable, however, to periodically clean the pump filter and to empty the pump housing in low-temperature periods through the blowoff plug. If the pump is to remain idle, it is advisable to empty and clean it, and then reinstall the filter cover with a ring lubricant on the rubber gasket, taking measures to ensure that the place where the pump is to be stored will remain dry and ventilated.

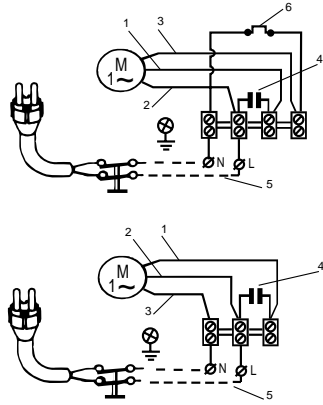
In the event of breakdown, the user must in no event handle the pump, but must contact an authorised technical service.

When the time comes to dispose of the pump, it contains no toxic or contaminating materials. The principal components are duly identified for selective breaking.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

**SINGLE PHASE SUPPLY**

- 1 - RED
- 2 - WHITE
- 3 - BLACK
- 4 - CAPACITOR
- 5 - LINE
- 6 - MOTOR RELAY



**THREE PHASE SUPPLY**

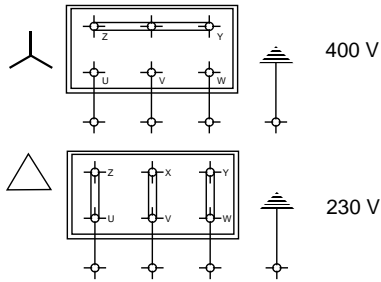
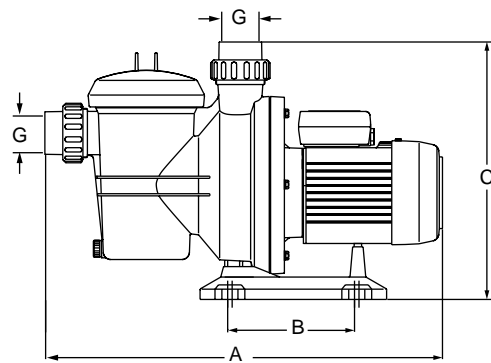
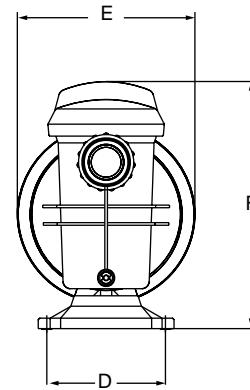
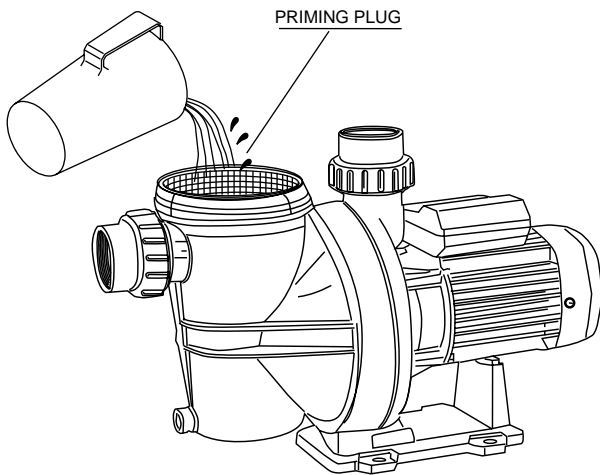
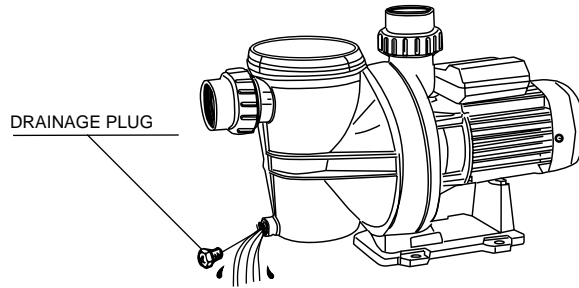
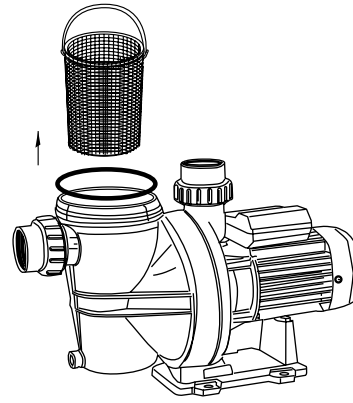


Fig. 1



230V 50Hz	230/400V 50Hz	Q max. (l/min.)	H max. (m)	A 1~ 230V	A 3~ 400 V	C - μF	P1 (kW)	IP	η (%)	dBA ±1	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Kg
SILENT 30M	SILENT 30	260	11.5	3	1.4	16	0.7	55	42	<70	532	170	345	159	238	330	Ø 48	9.4
SILENT 50M	SILENT 50	280	13.5	3.7	1.5	16	0.8	55	45	<70	532	170	345	159	238	330	Ø 48	9.4
SILENT 75M	SILENT 75	340	15	5.5	2.2	16	1.2	55	47	<70	532	170	345	159	238	330	Ø 48	10.7
SILENT 100M	SILENT 100	380	16.5	6.2	2.5	16	1.5	55	48	<70	532	170	345	159	238	330	Ø 48	11.4
TYPHOON1 100M	TYPHOON1 100	435	17	7	2.8	25	1.6	55	55	70	613	200	397	231	429	270	Ø 60	16.5
TYPHOON1 150M	TYPHOON1 150	500	19	8.5	3.1	25	1.9	55	61	71	613	200	397	231	429	270	Ø 60	18
TYPHOON1 200M	TYPHOON1 200	550	19.5	9.7	3.8	30	2.2	55	64	72	613	200	397	231	429	270	Ø 60	20.7
TYPHOON1 300M	TYPHOON1 300	650	22.5	12.5	5	60	2.6	55	63	73	613	200	397	231	429	270	Ø 60	20.6

V/Hz esp.: See pump nameplate. Liquid Temperature: 4°C a 40°C. Storage temperature: -10°C a +50°C. Relative Air Humidity: 95% Max. Motor classe: I  
 H max refers to the maximum total head in metres.

## POSSIBLE FAULTS, THEIR CAUSES AND SOLUTIONS

	1	2	3	4	5	POSSIBLE PROBLEM	SOLUTIONS
1) Pump does not prime.	X	X				Air entry through suction line.	Verify condition of connectors and gaskets of suction line.
2) Pump supplies scant flow.	X					Inadequate airtightness of filter cover.	Clean the filter cover and verify condition of rubber gasket.
3) Pump noisy.	X	X				Motor turning direction reversed.	Reverse 2 phases of the supply.
4) Pump does not start.	X					Defective mechanical seal.	Change mechanical seal.
	X	X				Excessive suction height.	Set pump at a suitable level.
5) Motor makes sound but does not start.	X	X		X		Incorrect voltage.	Verify the voltage specified on the nameplate and that of the mains.
	X					No water in prefilter.	Fill prefilter with water.
	X					Suctioning out of water.	Set suction in correct position.
		X				Filter clogged.	Clean filter.
		X	X			Diameter of suction line smaller than required.	Correctly dimension suction line.
		X				Discharge clogged.	Inspect filter and discharge line.
			X			Incorrect pump attachment.	Attach pump correctly.
			X			Foreign body in pump.	Clean pump and inspect its filter .
				X		Thermal relay tripped.	Reset thermal relay.
				X		Lack of power.	Reset the fuses.
					X	Motor blocked.	Remove the motor and call the Technical Service.