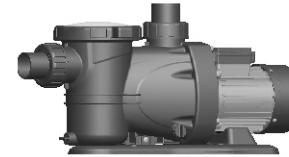


User Manual

Swimming Pool Pump



SPS125-1	SPS125-1T
SPS150-1	SPS150-1T
SPS175-1	SPS175-1T
SPS185-1	SPS185-1T
SPS200-1	SPS200-1T
SPS220-1	SPS220-1T

1. General

This manual provides information relating to the installation, utilization and maintenance of our pumps.

We recommend that you read it attentively and keep it for future consultation.

These swimming pool pumps are for permanently installed pools they must be fixed horizontal, self-priming centrifugal pumps. 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 test and electrical inspections.

Read this manual carefully before installing the pump. The pump must be installed in accordance with the standards in effect.

We decline all responsibility for the consequences of failure to comply with the installation instructions .We recommend that you comply with the electrical connection diagrams to avoid overloading the pump motor.

EVIDENCE OF CONFORMITY

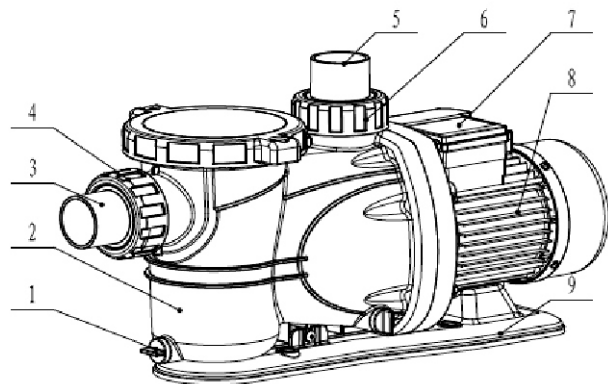
These products are complied with the following directives:

Electromagnetic Compatibility 2004/108/EC, Low Voltage 2014/35/EU and two European Standards

EN 60335-1 and EN 60335-2-41

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

For example



1. Plug screw 2. Pump body 3. Water input connection 4. Nut 5. Water output connection 6. Nut 7. Terminal box 8. Motor 9. Base

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

The pump must not be used when people are in the water

2. Pump Fixing



Caution:

You should make sure that the pump and terminals connections are protected from the monistruue and possible floods.

Installation of the pumps is only authorized in swimming pools and basins that comply with the standards in effect.

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 meters 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 can be bolted to the ground through the attaching holes in the base with the bolte. The pump must be installed with the shaft in the horizontal position and the pre-filter cover on the 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 place, and sheltered from rain.

The pump of XKP 04 series are easily assembled and connected. If in doubt, contact your specialist supplier or a qualified electrician.



Meaning of crossed –out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

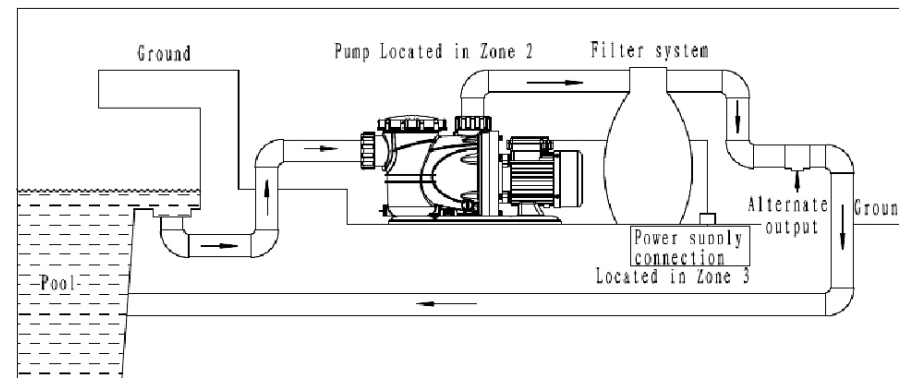
Contact you local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

10. Technical data of pumps

Ref.	Hmax (m)	Qmax (m ³ /h)	IP	P ₁ (W)	U (V)
SPS125-1	10	17	IPX5	600	220-240
SPS150-1	11	19	IPX5	800	220-240
SPS175-1	14	20	IPX5	900	220-240
SPS185-1	15	22	IPX5	1100	220-240
SPS200-1	17	27	IPX5	1600	220-240
SPS220-1	18	31	IPX5	2200	220-240
SPS125-1T	10	17	IPX5	600	220-240
SPS150-1T	11	19	IPX5	800	220-240
SPS175-1T	14	20	IPX5	900	220-240
SPS185-1T	15	22	IPX5	1100	220-240
SPS200-1T	17	27	IPX5	1600	220-240
SPS220-1T	18	31	IPX5	2200	220-240



3. Installation of the pipes

If plastic pipes are used, they must be sealed using TEFLON 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 as 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 shall inspect and make sure about the effectiveness of protective earthing of the building installation. In such case, an authorized qualified person shall inspect the building installation.

It is obligatory for the pump electrical power supply to have residual current device (RCD) having a rated residual operating current not exceeding 30 mA.

.The power cable must comply with type H07 RN-F 3X 1mm²

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 in Zone 2(usually at least 2 meters away from the pool) and the power supply connection for the pump must be located in Zone 3(usually at least 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 pumps must have its equipotentiality terminal connected to the equipotentiality terminal in electric wiring

before it is put into use, the equipotentiality terminal is marked with the symbol below.
If you have any doubt please contact with your electric specialist.



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 30 mA.
The electrical installation should comply with the national wiring rules
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.
The pumps can be operated continuously.
There's must be an all-pole disconnection switch directly connected to the supply terminals and shall have a contact separation in all poles.
If you have any doubt please contact with your electric specialist.
Please ask professional people to install the swimming pool pump.

5. Check before first starting the pump

1. Check that the mains power voltage and frequency correspond to those indicated on the identification plate affixed to the pump.
2. Check that the pump shaft turns freely.
3. Unscrew the pre-filter cover and fill the pump with water up to the lower level of the suction pipe.
4. Screw firmly the pre-filter cover 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 NOT FILLED WITH WATER or with water inlet sucked.

6. Starting the pump

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.

7. 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, withdraw the filtering basket and clean it .Examine 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 removing the drain plug) to avoid damage through

freezing, cleaned and stored in a dry and well aired place. In the event of failure, do not try to repair the pump, contact our technical service.

Do be sure to disconnect the pump from electric supply before any servicing is carried out.

8. Problems and Solutions

POSSIBLE FAULTS

1. Pump does not prime
2. Low flow rate
3. Pump makes noise
4. Pump does not start
5. Motor makes noise but does not start

BLE FAULTS					CAUSES	SOLUTIONS
1	2	3	4	5		
×	×				Air entry	Verify watertightness of connectors and seals
×					Bad watertightness of cover	Clean the cover and verify the seals
×	×				Excessive suction height	Set pump at a suitable level
×	×		×		Incorrect voltage	Verify the vlogate specified on the nameplate and that of the mains
×					No water in prefilter	Fill prefilter with water
	×				Filter clogged	Clean filter
	×	×			Diameter of section line smaller than required	Correctly dimension section line
	×				Discharge clogged	Inspect filter and discharge line
		×			Incorrect pump attachment	Attach pump correctly
		×			Refuses in pump	Clean pump and inspect the filter
			×		No tension	Reset the fuses
				×	Motor blocked	Call the technical service

9. Guarantee

Our pumps are guaranteed against any material or manufacturing defects for a period of 2 years from the date of delivery .Wear parts, gaskets, cover and filtering basket are not covered by this guarantee. The guarantee is dependent upon compliance with the assembly and/or maintenance manual. Presentation of the purchase invoice will be demanded if application of the guarantee is involved. The sole obligation of the vendor under this guarantee will be to replace or repair free of charge the product or item acknowledged defective by the vendor's services. All other expenses shall be borne by the buyer. For a product to benefit from this guarantee, it must first be submitted to the vendor's after sales service, whose agreement is required prior to any replacement or repair operation .The guarantee does not cover visible defects, or defects and damage resulting from normal wear, incorrect assembly and /or use ,or modifications to the product made without the agreement of the vendor.