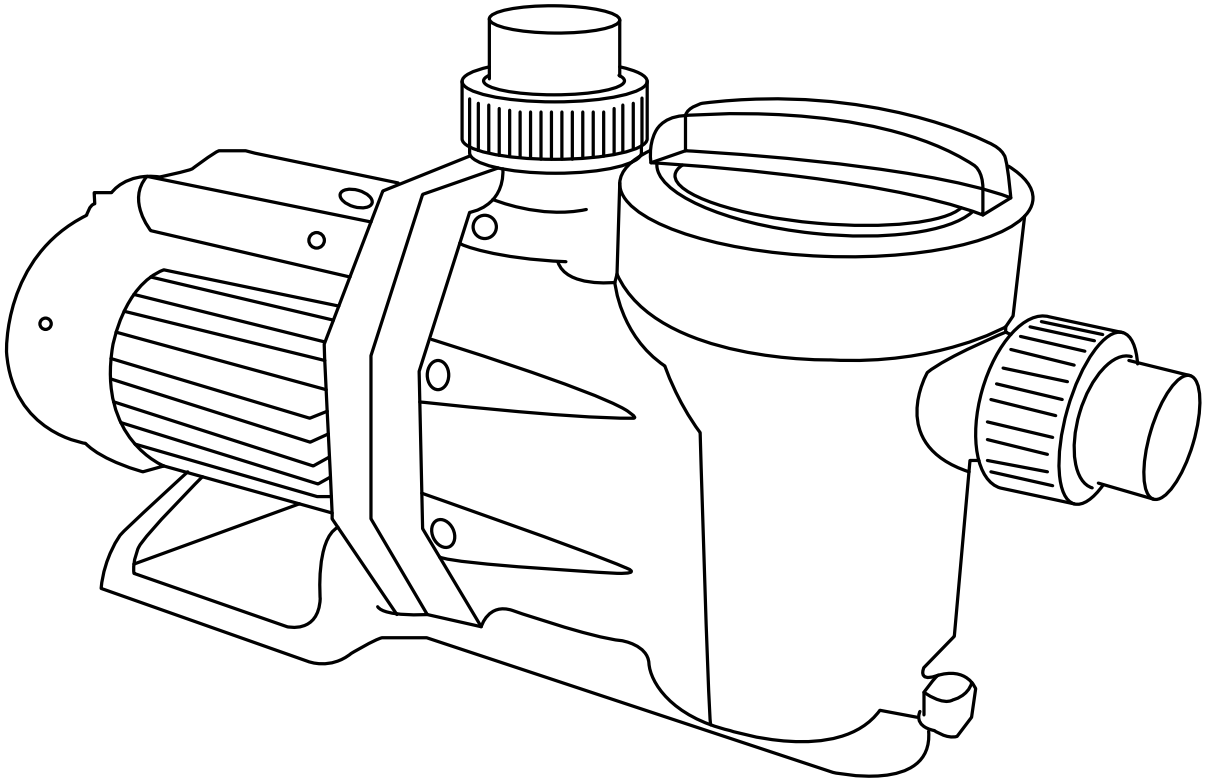
USER MANUAL SELF PRIMING SWIMMING POOL PUMP



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PREFACE

Thanks for buying the Swimming Pool Pump, another high-quality machine from our company.

To get the most out of your purchase, please read the manual before using the pump.

We ask you to please read this manual carefully beforehand in order to familiarise yourself with this product and after reading, please store this instructional manual for future reference. Failure to follow the proper protocols listed in the manual may cause personal injury to the operator or damage to equipment.

Installation Instructions

- The electrical supply should be single phase 220 -240VAC.
- The pump must be installed in a place where there is easy access to the terminal box.
- The pump must only be used for swimming pools and garden ponds.
- The pump has to be mounted on a fixed and firm base using bolts (not supplied).
- Electrical wiring must be carried out by a licensed electrician.
- If the supply cord is damaged, it must be replaced by the manufacturer, a service agent or a licensed electrician
- The pump must be earthed.
- Ensure a cable of suitable capacity is used.
- Ensure installation is completed according to your local standards.
- The pump must be protected by a fuse.
- A suitable residual current circuit breaker conforming to your local electrical standards must be used.
- The ambient temperature must not exceed 40 ° C.
- The pumps are only suitable for counter-clockwise rotation when viewing from the pump end.
- The pump must be disconnected from all power sources before work/ maintenance is carried out.
- For hard wired applications, a licensed electrician must be used for disconnection/reconnection.
- This appliance is not intended for use by children or by people with reduced physical, sensory or mental capabilities.

Operating Instructions

- Locate the pump as close as possible to the pool. Provide the necessary space around and below the pump for inspections and servicing of the unit.
- The pump suction line should not be smaller than the pressure line. All piping must be airtight.
- When the pump unions are screwed on, the threads on the pump must be sealed with teflon tape or silicone. Tighten the pump union only as much as is required to ensure a tight connection. Excessive torque is unnecessary and may cause damage to the pump.
- The weight of the piping should be supported independently and not carried by the pump.
- The pump motor must be wired for the proper voltage and rotation, in accordance with the wiring diagram and local regulations. Voltage, phases, ampere draw and cycles are given on the pump nameplate.

Priming

- Fill the pump tank with water before starting. This may be done through the tank lid. Should the pump be empty or drained, it is necessary to refill it before starting.
- High suction lifts or long suction lines require additional time and reduce performance of the pump. Should you have difficulty with either of these, refer to the troubleshooting guide.
- The pumped water cools and lubricates the seal. Running the pump dry will damage the seal. Always keep liquid in the pump tank. No further lubrication of the pump end is necessary.
- After the pump tank has been filled with water and the motor has started, allow a few moments for the pump to start delivering water. Be sure that all suctions and discharge valves are open when the pump is running. Operating the pump with a closed valve in the system can cause pump damage. If flow does not start within ten minutes, stop the motor and determine cause.

MAINTENANCE

MAINTENANCE CHECK

1. Remove the tank lid to expose the strainer basket.
2. Remove the basket and clean.
3. Inspect the O-Ring on the lid.
4. If it is damaged, replace it
5. Replace the strainer basket and reinstall the lid
6. Tighten by hand only.

- If your pool is unused during the winter months, care must be taken to protect the pump from damage. Drain completely by removing the drain plug at the bottom of the pump tank. Do not replace the plug but store it in the strainer for the winter. An alternative is to take the pump indoors and store it somewhere warm and dry.

- If the pump has been in contact with seawater, it is necessary to flush it with clean water.

- It is also possible to leave the wet end and piping intact and only remove and store the motor and impeller assembly. To do this, remove the motor from the tank screws. Store the remaining parts in a dry place away from liquid.

- When activating the pump again, reverse the above procedure. Replace the body O-Ring between the tank and the back plate if damaged. Put the drain plug back in. Check the pump shaft for free movement. Prime the pump as above and check the rotation of the pump shaft.

- A licensed electrician is required to carry out all electrical disconnection/ reconnection work.

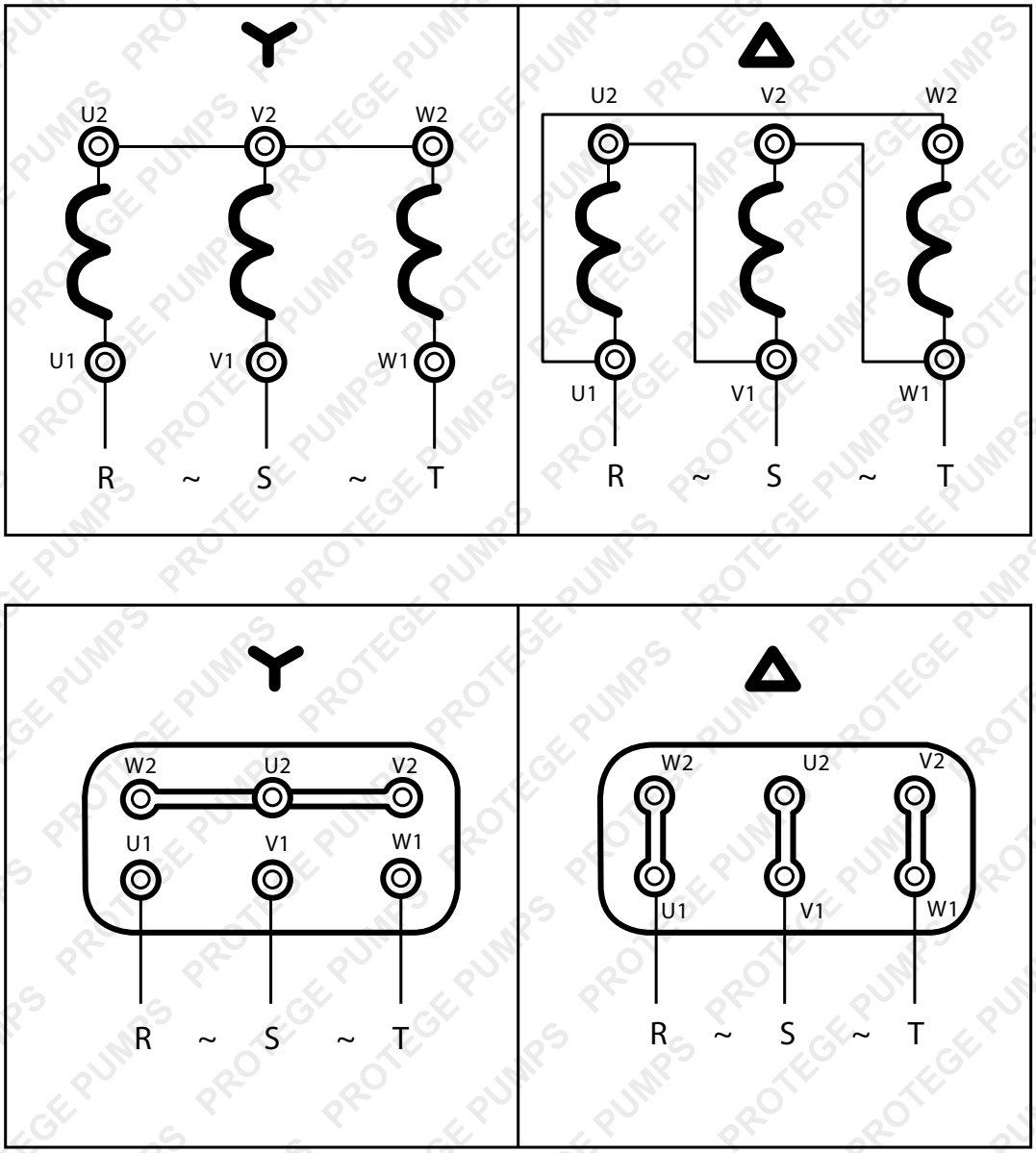
TROUBLESHOOTING

Symptoms	Probable Causes	Recommended Action
Pump will not prime	Suction air leak	• Be sure the water in the pool is high enough to flow through the skimmer • Make sure the lid O-Ring is clean and properly positioned • Hand tighten tank lid down snugly • Tighten all pipes and unions on suction of pumps • Remove and replace pump seal
	No water in pump	• Make sure pump tank is full of water
	Closed valves or blocked lines	• Open all valves in system • Clean skimmer and pump strainer basket • Open pump and check for clogging
Motor does not turn	No power to motor	• Check that all power switches are on. • Be sure fuses and circuit breakers are properly set • Make sure the timer is properly set • Check the timer for proper operation
	Pump jammed	With the power off, turn the shaft- it should spin freely. If not, consult a licensed electrician.
Low flow	Dirty filter	Back wash the filter when the filter pressure is high
	Dirty skimmer basket	Clean skimmer and pump strainer baskets
	Suction air leak	See problem 1
	Closed valves of blocked lines	See problem 1

Motor runs hot	These motors will run 'hot' to the touch, however, this is normal. The thermal overload protector will turn on if there is an overload or high temperature issue. Excessive heat can be caused by:	
	Low or incorrect voltage	• Wiring to be corrected by licensed electrician
	Installed in direct sun	• Shield the motor from the sun's rays.
	Poor ventilation	• Do not cover or enclose the motor
Noisy operation of motor	Bad bearings	• Have a licensed electrician replace bearings in the motor
Noisy operation of pump	Air leak in suction line	• Repair leak
	Bubbles in water returning to the pool at the inlet	• Check suction pipe • Check the O-Ring is clean
	Restricted suction line due to blockage or an undersize pipe, indicated by a high vacuum reading at the pump suction	• Have a service person remove blockage or increase the suction pipe size • Make sure the strainer basket is clean
	Foreign matter (gravel, metal etc) in pump impeller	• Have a licensed electrician disassemble the pump and remove the foreign matter from the impeller.
	Cavitation	• Improve suction conditions (reduce suction lift, reduce the number of fittings, increase pipe size) • Increase discharge pressure and reduce flow by throttling discharge
Motor overload protection 'kicks out'	Motor is improperly connected	• Have a licensed electrician check the wiring diagram on the motor
	Low voltage due to undersized wire or low incoming voltage	• Have a licensed electrician check using the volt meter • Increase size of supply wire • Report low supply voltage to the power company • Voltage of motor must be within 6% of motor nameplate voltage
Pump is leaking	Seals are worn out	• Change the seal

CONNECTION DIAGRAM

*For use by a licensed electrician



SPECIFICATIONS

Model	SPPE 200
Power	1200 Watts/ 1.6 HP
Volts	240 - Hz 50
Max Flow	450 L/m
IP55 INS CL.F	Max 50 ° c
Amps	5.0
Head Max	18m
Capacitor	17 µ F

Model	SPPE 100
Power	550 Watts/ 0.75HP
Volts	240 - Hz 50
Max Flow	240 L/m
IP55 INS CL.F	Max 50 ° c
Amps	2.2
Head Max	14m
Capacitor	10 µ F

Model	SPPE 250E
Power	1850 Watts/ 2.5HP
Volts	240 - Hz 50
Max Flow	560 L/m
IP55 INS CL.F	Max 50 ° c
Amps	6.8
Head Max	19m
Capacitor	25 µ F

Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

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