

LX[®] Pro Series

LP200/250/300 Spa Pool Pump

Installation and Operating Instructions



WARNING: Failure to follow these instructions in conjunction with all applicable codes may cause serious bodily injury and/or property damage.

The installation of this product must be carried out by a person knowledgeable in spa pool plumbing requirements in accordance with the installation instructions provided.

Prior to using this pump, you must ensure that:

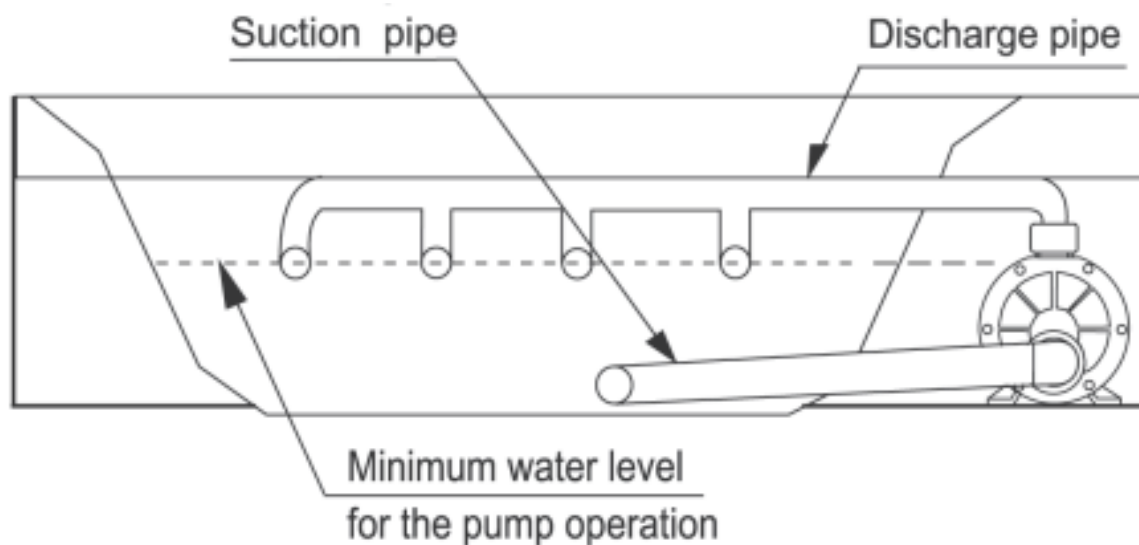
- The pump is installed in a safe and dry environment
- The pump enclosure has adequate drainage in the event of leakage or flooding
- Any transport plugs are removed
- Pipework is correctly sealed and supported
- The pump is primed correctly
- The power supply is correctly connected

Read these instructions in their entirety before switching on this pump.

Location

The pump should be located as close to the water as practicable and mounted on a firm base in a well-drained position, high enough to prevent any flooding. It is the installers/owner's responsibility to locate the pump such that the nameplate can be easily read and accessed for service.

Installation Diagram



Weather Protection

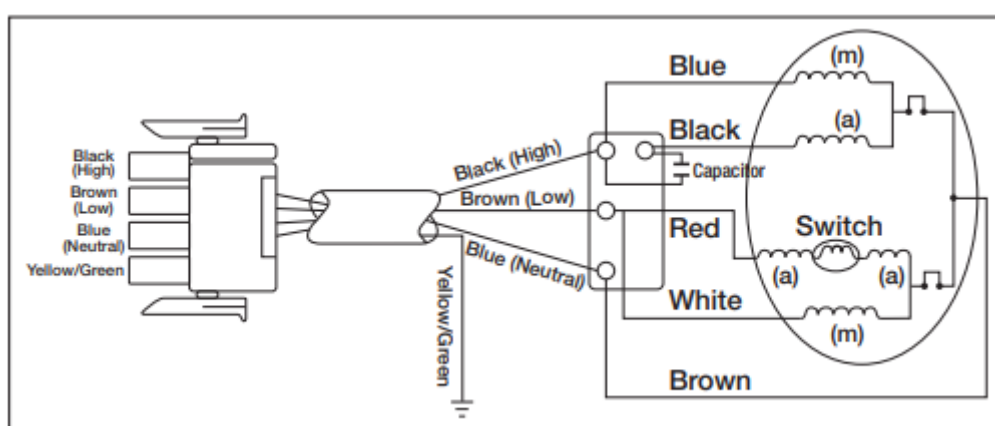
It is recommended that the pump is protected from the weather.

Power Connection

LX Pro Series pumps are suitable for connection to a nominal 240-volt 50Hz power supply and are equipped with a flex lead and AMP plug to allow connection to a spa controller. If the supply cord is damaged it must be replaced by the dealer or manufacturer.

CAUTION: All types of spa pool pumps must be installed in accordance with AS3000 wiring rules or your local wiring standards.

Wiring Diagram



WARNING: Ensure that an electrical isolation switch is located within easy access so that the pump can be switched off in an emergency.

Pipe Connection

A set of barrel unions are provided for connecting to the piping from the spa or pool.

The pump is designed to accommodate 50mm PVC pipes by fitting the pipe to the inside of the union tail.

Suction piping should be free from all air leaks and restrictions which can cause suction difficulties.

The suction and discharge pipes should have a constant gentle slope to facilitate purging of air.

Starting the Pump

To operate efficiently and prevent pump damage there must be a free flow of water to and from the pump. Before starting the pump ensure that:

- All pipework is correctly sealed
 - The spa/pool water level is at the correct height
 - That all appropriate valves are open and there is nothing preventing the flow of water through the system.
1. First prime the pump by ensuring that the pump is below the water level of the spa/pool.
 2. Connect to the applicable spa controller and switch on.
 3. Allow the pump to run, so that any trapped air can be expelled.
 4. If prime is not established within a minute, as evidenced by a strong flow of water, switch of the pump and repeat the procedure.

Pump Operation

The water level of the spa/pool should always be maintained to at least the spa jets, ensuring that water is always in the pump.

NEVER RUN PUMP DRY. Running the pump with no water may damage the mechanical seals, causing leakage and flooding. Dry running and associated damage are not covered under warranty.

Removal of the Pump from Pipework

Should it be necessary to remove the pump follow these instructions:

1. Switch off the power and remove the plug from the power source.
2. Close the appropriate valves on the suction and discharge pipes.
3. Remove the suction and discharge barrel unions taking care not to lose the O-rings.
4. Move the pipework with the barrel unions attached until the pump can be pulled free.

Water Quality

Maintaining balanced water chemistry is important to the life of your spa pool pump. This pump is designed to be used with Spa and Pool water, balanced in accordance with the Langelier Saturation Index, with a pH level of between 7.2 and 7.8 and is regularly treated with a chlorine sanitising agent with the level not exceeding 3ppm. Please consult your local pool shop regularly to have your water tested.

Troubleshooting

If the pump runs but there is no water flow or water flow is reduced, the following may apply:

- The pump is not primed. Re-prime as per instructions in 'Starting the pump'.
- There are air leaks in the suction piping. Check all piping and eliminate leaks. Air bubbles in the discharge piping would indicate a leak in the suction piping to the pump allowing air to enter.
- A leaking shaft seal may also prevent operation. This is evidenced by water underneath the pump.
- The pump is not able to get water from the spa/pool. Check appropriate valves are open and the water level is up to the spa jets.
- Blockage in the pump or piping.

If the pump does not operate, the following may apply:

- The power is not connected. Where a spa controller is used, check to see if the controller touchpad is illuminated and the pump is connected to the correct AMP socket. Also check fuses and main supply switch.
- Automatic overload is tripped following an overheating period. The pump has an in-built thermal overload which will reset after the motor has cooled. Determine the cause of the overload and rectify.
- Blockage is preventing the pump from rotating.
- Motor is burnt out. Replacement will be required.

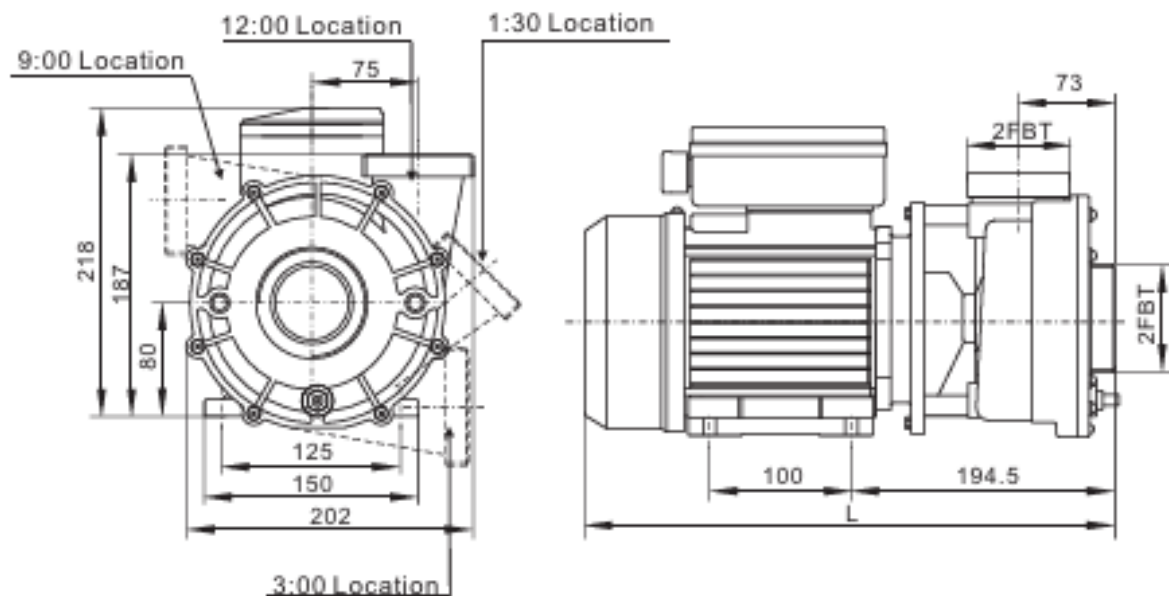
Routine Maintenance

To maximise the life of your equipment and personal safety, regularly confirm the following. Ensure the pump is turned off first before proceeding.

- Make sure each suction inlet and main drain has a cover that is securely attached and in safe working condition.
- Make sure all skimmer covers are securely attached and in safe working condition. These should be replaced every 3 to 4 years.
- Remove any obstructions or debris from the main drain cover.
- Ensure the skimmer baskets are free of leaves and debris.
- Remove obstructions and combustibles from around the pump motor.
- Make sure electrical connections and wiring are in good condition. Damaged wiring must be repaired or replaced by a qualified electrician as soon as damage is discovered.
- Check water balance at your local pool shop.

WARNING: Pump suction is hazardous and can trap and disembowel bathers. DO NOT block suction. DO NOT use or operate swimming pools, spas or spa baths if a suction cover is broken, missing or loose. Two suction covers and inlets must be provided for every pump to avoid suction entrapment.

Pump Dimensions



Model	Qmax (L/min)	Hmax (m)	Power (P)		L (mm)	Weight (kg)
			kW	HP		
LP200	535	13	1.50	2.0	382	12.7
LP250	600	15	1.85	2.5	382	14.6
LP300	635	17	2.20	3.0	397	16.3

Operating Parameters

Liquid Temperature: 4°C ~ 50°C

Storage Temperature: -10°C ~ +50°C

Relative Air Humidity: 95% Max

Warranty

In the unlikely event that this LX Pro Series product develops a malfunction within two years of the date of purchase due to faulty materials or manufacture, Spacraft will at our option repair or replace it free of charge, subject to the conditions below.

This warranty does not cover normal wear or tear, replacement of product consumables (i.e. mechanical seals, bearings or capacitors), loss or damage resulting from misuse or negligent handling, improper use for which the product was not designed or advertised, failure to properly follow the provided installation and operating instructions, failure to carry out maintenance, corrosive or abrasive water or other liquid, lighting or high voltage spikes, or unauthorised persons attempting repairs. Where applicable, your LX Pro Series product must only be connected to the voltage shown on the nameplate.

This warranty does not cover freight, or any other costs incurred in making a claim. Please retain your receipt as proof of purchase; you **MUST** provide evidence of the date of original purchase when claiming warranty.

Spacraft shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from LX Pro Series products. This limitation does not apply to any liability of Spacraft for failure to comply with a consumer guarantee applicable to your LX Pro Series product under the Australian or New Zealand legislation and does not affect any rights or remedies that may be available to you under the Australian or New Zealand Consumer Legislation.

In Australia, you are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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