



Quick Start Guide

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# Jet Pump

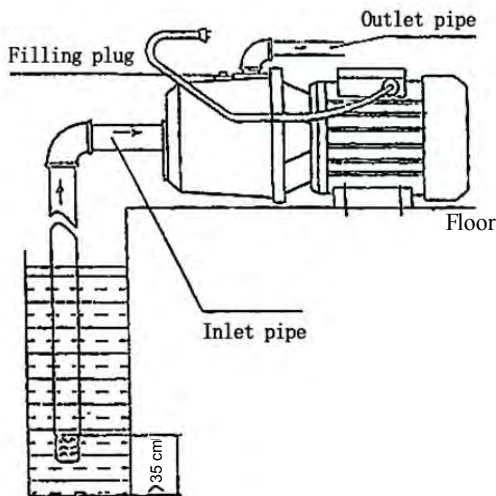
LSW Series

## 1 Introduction

The JET LSW series is a self-priming centrifugal electric pump that are made of cast iron. It pumps the clean water for different purposes. An optional pressure control system can be implemented to the pump to adjust the flow pressure.

## 2 Installation

The maximum operating temperature is 40°C. Fix the pump under a shelter to prevent the direct sunlight.



1. Install the motor on the floor near the water source.
  - The motor needs a flat floor.
2. Connect the inlet pipe and valve to the pump.
  - The pipe connections must be airtight.
3. Insert the inlet pipe to the water source.
4. Keep the inlet pipe end 35 cm from the bottom surface.
  - The distance prevents the entry of priming mud or sand to the pipeline. The entry of the mud or sand causes a reduction in the flow or impeller damages.
5. Connect the outlet pipe to the pump.
6. Fill the clean water through the outlet pipe.
7. Wait for three minutes.
8. Check the water level in the outlet pipe.
  - The water level should not drop.
9. Repair or reinstall the pipeline, if there is a water level drop.
10. Connect the wire to the electric power supply.
  - Make sure that there is a grounding connection on the power switch.
11. Check the connection diagram printed inside the connection box.
12. Verify that the connection is correct.
13. If there is no self-priming, do the following actions:

- a) Check every installation step correctly.
  - b) Check the Troubleshooting, if any problem occurs.
  - c) Take the necessary actions to solve the issue.
14. Do not soak or wet the pump to avoid electric shock.

The pump has a splash-proof protection.

Remove the unwanted materials from the pump surroundings. It damages the impeller during operation.

### 3 Operation

#### 3.1 Preparation for startup



#### **DANGER: Crush Hazard**

Moving parts can entangle or crush. Always disconnect and lock out power before servicing to prevent unexpected startup. Failure to do so could result in death or serious injury.



#### **WARNING: Electrical Hazard**

Risk of electrical shock or burn. A certified electrician must supervise all electrical work. Comply with all local codes and regulations.

#### 3.2 Start the pump

Dirt can enter to the motor during transportation. It prevents the smooth operation of the impeller. The same issue occurs if the pump is not operated for a long period. Do the following actions for the first time operation and operating the pump after a long period:

1. Clean the entered dirt from the motor.
2. Rotate the impeller as follows:
  - a) Insert a screw driver through the fan guard vent.
  - b) Rotate the impeller with the screw driver.

The impeller rotates freely.

3. Remove the screw from the topping-up cover.
4. Fill the pump with the water up to the mark.
5. Install the screw.
6. If fitted, open the suction valve.
7. Connect the plug to the power supply.
8. Turn on the power supply.

Note: Do not operate the pump without a water source for more than 30 seconds. It damages the mechanical seal of the pump.

9. Wait for a few minutes.

The pump starts supply water.

### 4 Troubleshooting

#### 4.1 Troubleshooting precautions

**DANGER: Crush Hazard**

Moving parts can entangle or crush. Always disconnect and lock out power before servicing to prevent unexpected startup. Failure to do so could result in death or serious injury.

**CAUTION: Compressed Gas Hazard**

Air inside may cause parts or liquid to be propelled with force. Be careful when opening.

**CAUTION: Thermal Hazard**

The surfaces or parts of the unit may become hot during operation. Allow surfaces to cool before starting work, or wear heat-protective clothing.

- Read all operation and maintenance manuals supplied with the unit.

**4.2 Troubleshooting**

Symptom	Cause	Remedy
The pump does not operate.	The fuse burnt out	Replace the fuse.
	The capacitor is damaged.	Replace the capacitor.
	The electric motor is damaged.	Repair the electric motor.
	The impeller or fan guard is jammed.	Rotate the impeller by using a screw driver. Disassemble the pump and clean the impurities.
The pump operates but no water through the outlet pipe.	Not sufficient water in the source	Fill the source with water.
	Leak on the inlet pipe	Seal it with the correct sealant.
	Too high suction	Regulate the suction or use the pump with a higher head.
	The impeller is damaged.	Replace the impeller.
	Too slow speed	Check the electric motor for any damage. Check the supply voltage, it could be too low. Check the capacitor for any damage.
The motor is over heated.	Too high voltage	If the voltage cannot lower, then use the pump intermittently.
	Too low voltage	If the voltage cannot increase, then use the pump intermittently.
	Overload	Adjust the head and the flow. Clean the pipe and the impeller.

	Insufficient ventilation	Give correct ventilation.
Leakage	The mechanical seal is worn.	Replace the mechanical seal.
	The O-ring is worn.	Replace the O-ring.
	Presence of the cracks on the pump body and other parts	Replace the damaged parts.

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- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

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