



HIGH PERFORMANCE SUBMERSIBLE PUMP,
OPERATION MANUAL

PONSTAR

《PXL SERIES》

Thank you for your purchase of our
Submersible pump.

Upon receipt, please check the followings.

- Model is exactly what you ordered.
- There is no damage in transit.
- Accessories are all supplied.

In case of trouble, please contact dealer.

KOSHIN LTD.



KOSHIN LTD.

12, Kami-Hachinotsubo, Kotari Nagaokakyo city, Kyoto, Japan

Tel +81-(075)-954-6111

Fax +81-(075)-954-6119

Be sure to read this manual before operation

USE

Suitable for disposal of residual water from construction site, roof tank of building, swimming pool, fish farm, underground water and narrow access like manhole.

INSTRUCTIONS FOR USE

1. Please check the type, aperture, output, frequency, and voltage indicated on the name plate attached to the upper part of the pump.

Pay close attention, in particular, to frequency and voltage as inadequate frequency and voltage can cause lower pump performance and troubles.

2. Always place pump on flat ground for effective operation

Minimum water level for operation is 30mm. When used at lower level, prime before operation.

Keep away from children. Not suitable for chemical, seawater, acid or alkaline.

3. Cabtire cable

To transfer the pump or to install, hold the pump on the handle or a rope tied to the handle.

If the cabtire cable is pulled instead of the rope, the core wires may sometimes be cut off. To extend the cable, use a cable of the same or larger size than the one attached to the pump. Strictly refrain from placing the joint between the main line and the extension in water.

4. Earth leakage breaker

Be sure to ground the earthing wire before connecting the cabtire cable to the power source. The green wire is for earthing. Be sure to attach the leakage breaker to prevent any possible leakage trouble.

5. After use

If the pump is left as it is after used for water of high sand content or other special substances, the sand is accumulated in the pump and will affect the next operation. Before stopping operation, therefore, be sure to keep pumping supernatant water or clean water for some time to clean out the inside.

6. Thermal protector

The pump incorporates a thermal protector to protect the motor, and the motor is stopped automatically at a over-load operation due to any reason.

When the motor stops automatically, be sure to check after turning off the power source.

WARNING

Ensure that no one is in the water when pump is operating.

MAINTENANCE AND INSPECTION

1. Periodically check the insulated condition with a megger tester. To be acceptable, the resistance between the earthing wire and the power cord should be 100M ohm and higher.
2. The shaft of the water-tight mechanism as the most critical part of the pump is sealed with liquid paraffin. The life changes greatly depending on the operating condition but the quantity should be checked periodically. Use 230cc of Kyoseki No. 2 or equivalent for the sealing. The liquid paraffin can be checked easily by removing the hexagon socket head bolt at a lower side of the pump body.

TROUBLE-SHOOTING

No start at all or stops immediately after start.	Malconnection of power circuit	Correct the connection. Check the power circuit.
	The leakage of circuit breaker is actuated.	Repair the point of leakage.
	The impeller is caught by foreign substance.	Remove the foreign substance.
	Motor is burnt.	Repair or replace.
	Voltage drop.	Raise the voltage to the rating.

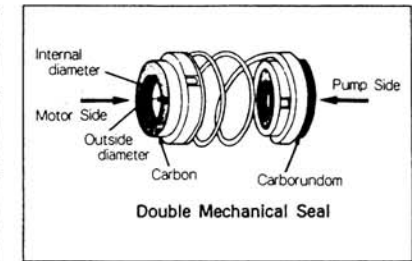
Stops during operation	The protector is actuated.	Remove foreign substance if the impeller is clogged.
		Lower the liquid temperature if it is too high.

No pumping or lowered performance	Voltage drop	Raise the voltage to the rating.
	Inverse rotation	Correct to forward rotation.
	High delivery head	Lower the head.
	Discharge pipe is clogged.	Overhauling
	Impeller wear	Replacement
	Clogging of foreign matter in strainer pump	Overhauling.

CAUTION

The pump is used a double mechanical seal.(See Fig.) Consulting the following table, assemble it.

MECHANICAL SEAL	MOTOR SIDE (Carbon)	PUM SIDE (Carborundom)
Outside diameter	22.5mm	20.5mm
Internal diameter	18.5mm	15.0mm



SPECIFICATION

Model		PXL-52511	PXL-52522	PXL-62511
PUMP	Connection Dia	25 m/m (1")		
	Total Head	32.8 ft (10m)		36.1 ft (11m)
	Delivery Volume	31.68 U.S.G./min (120L/min.)		33.0 U.S.G./min (125L/min.)
MOTOR	Voltage	AC-110V	AC-220V	AC-110V
	Frequency	50 Hz		60 Hz
	Read Current	6.0 A	2.9 A	6.8 A
	Consumption of Electric Power	590 W	540 W	680 W
	Revolution	2900 rpm		3400 rpm
	Power Cord	16.4 ft (5m)		
	Gross Weight	11.8 kg		
Standard Accessory	Rope 5m Hose Band Coupling	Coupling Packing Nipple		

PERFORMANCE CURVE

