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HIGH PERFORMANCE SUBMERSIBLE PUMP,
OPERATION MANUAL

PONSTAR

《 PXL-50 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.

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. 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.

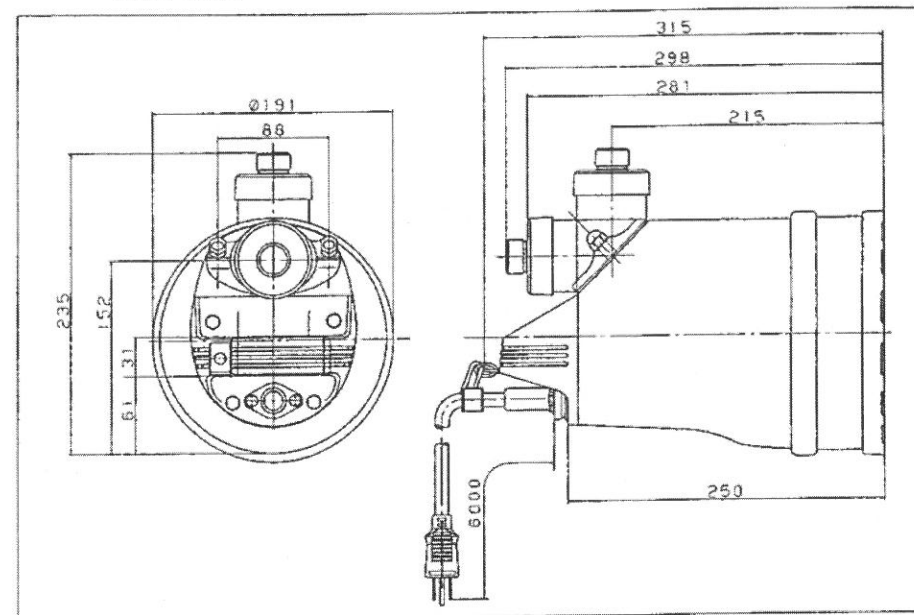
6. Thermal protector

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.

DIMENSION

UNIT : mm



TROUBLE-SHOOTING

No start at all or stops immediately after start

Malconnection of power circuit

Correct the connection.
Check the power circuit.

The leakage 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

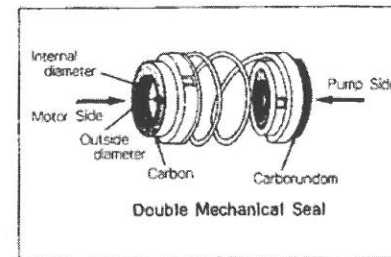
Clogging of foreign matter in strainer pump

Overhauling

CAUTION

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

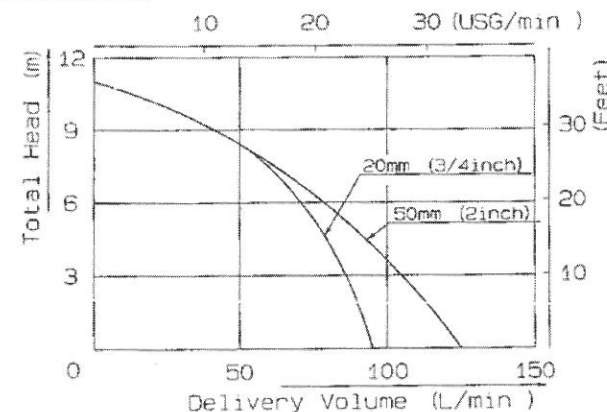
MECHANICAL SEAL	MOTOR SIDE (Carbon)	PUMP SIDE (Carborundum)
Outside diameter	20.5mm	20.0mm
Internal diameter	16.0mm	15.5mm



SPECIFICATION

Model		PXL-65011	
PUMP	Connection Dia	50 mm (2")	20 mm (3/4")
	Total Head	36 ft (11m)	36 ft (11m)
	Delivery Volume	33U.S.G/min (125L/min.)	25U.S.G/min. (95L/min.)
MOTOR	Voltage	AC-110V	
	Frequency	60Hz	
	Read Current	7.0A	6.4A
	Consumption of Electric Power	671W	646W
	Revolution	3400 rpm	
	Power Cord	6m	
Gross Weight		12.1kg	
Standard Accessory		Rope 5m	

PERFORMANCE CURVE



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