



ECO Pump OWNER'S MANUAL

TSP-10000 , TSP-15000 , TSP-20000, TSP-30000

Introduction

The pumps are carefully inspected and tested to ensure both safety and operating performance. However, failure to follow the instructions and warnings in this manual may result in pump's damage and/or serious injury. Be sure to read and save this manual for future reference.

Control and Panel Function



1, LED display and controller key Instructions

As indicated in able diagram LED indicates power work stop and fault code, the panel are touched control A, B, C indicates work/stop, slow, faster.

2, Operating instructions

Connected with pump, Plug on the power. LED show “ P****”, P is short for power, up to up until to the Max. watts of the pump. Such us, P0010 means 10 watts. Touch the button “▲/▼” LED shows “ F****” F is short for Speed. There is from F0030-F0100, F0031, F0032, F0033..., total 70 speed to adjust the flow rate.

3, The key Lock Function

Press “ II”button, the pump stop for feed. Press “ II” button again, pump resumes working, LED shows normal locking panel. Press “ II” button for three seconds until the LED flash twice. The controller locked. Lock the pump in the setting data working condition. Press the “ II”button for three seconds again. LED flash twice. The controller unlocked.

4, The LED protected mode

The controller enters the screen saver mode after 25 seconds if no any touch of the screen, the LED screens becomes to micro bright. The LED return to normal brightness when press any button.

5, Date memory function

If no power to cause the pump stops suddenly, when power on, the pump resumes working as previous setting parameter.

6, Fault code and description

The abnormal working code and flashing of the controller. the code explanation as below:

Er01: Current abnormally;

Er02: Controller overheating;

Er03: Pump working without water ;

Er04: Something blocks the pump, the impeller stop running;

Er05: The voltage is abnormal, too high or too low.

7, Controller installation

Something blocks the pump Install the controller on the floor in horizontal, or on the wall in vertical. Fix it with screws then put the plug into the socket, lock the nut.

●Note: for outdoor use, the power socket must be installed with the leakage current protecting device, and the leakage current shall not exceed 30mA (please the consumer to install the leaking current protection device by themselves).

Performance Parameters Table

No:	Model No:	Voltage	Control box (W)	Consumption (W)	Flow rate (L/H)	Head Max (M)
1	TSP-10000	AC220-240V/50/60Hz	100	85	10000	5.0
2	TSP-15000	AC220-240V/50/60Hz	200	135	15000	6.0
3	TSP-20000	AC220-240V/50/60Hz	200	185	20000	7.0
4	TSP-30000	AC220-240V/50/60Hz	385	385	30000	10.0

CAUTION

Always disconnect the pump from the power supply before cleaning, maintenance and handling.

Do not let the pump work dry.

Do not lift the pump by holding the power cord only

Do not use the pump in the heating liquid.

The pump fits for fresh water and sea water only

Please use the pump only when it is completely submerged in water.

The pump can not run in the swimming pool.

Automatic shut off if no water for 2 minutes.

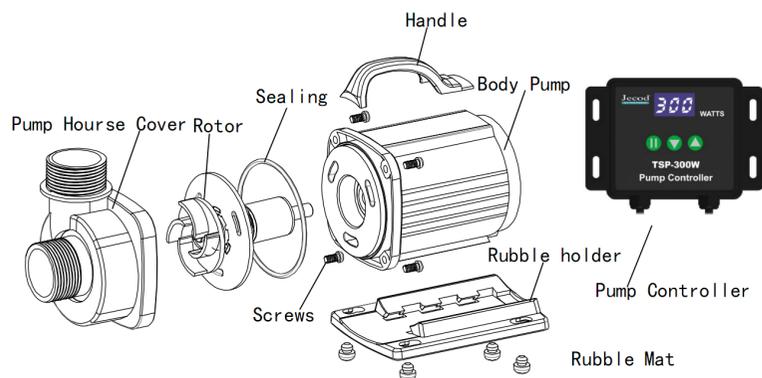
Pull the plug out, and re-insert for resuming work.

Operation

A clogged or dirty intake screen will reduce the performance.

If the pump is used on a dirty surface, raise it slightly to reduce the amount of debris contacting the intake. If the flow is low, please adjust the regulator on the sealing cover. Do not let the pump run in dry. The pump will be broken easily. Normally, put the pump into water, plug on. At the beginning, it probably can't pump water, because there is air in the pump and the connector fitting. Don't worry. Please plug on and off for several times. it will work normally.

Installation diagram:



MAINTENANCE

To clean the pump, remove the back cover, sealing cover and the impeller.

Use a small brush or stream of water to remove any debris.

Note: the pump shaft can not be removed.

If the pump not work, check as following:

- Check the circuit. Please try to plug on another power socket, to ensure the pump switched on with power. Note, please do not. plug on before operation.
- Check the pump outlet and tube, if blocked by dirty. Algae may block them, up i can clean the algae using the pond water with a garden hose.
- Check the inlet to ensure not clogged by debris.
- Remove the pump inlet to access the impeller. Turn around the rotor to check if broken or jammed.
- Monthly maintenance will prolong your pump's life..Clean the rotor, remove the dirt. etc

NOTE: Ensure the electrical cord loops below the power socket like a "Drip Loop". It will prevent the water from running around the cable into the power socket



DISPOSAL:

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly and healthy way.

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