



DC Pump

OWNER'S MANUAL

DCW-2000,DCW-3000,DCW-4000,DCW-5000,DCW-6500,DCW-8000,
DCW-10000

Introduction

The DC 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.

Pump Features

- SINE wave technology ,ultra quiet operation.
- High performance with innovational motor, and energy saving up to 65%, super quiet operation.
- Suitable for both marine and fresh water, Rust free
- IC electronic detection ,automatic power-off protection upon no water.
- Motor protection if rotor is blocked; No copper element.
- With anti-resistant ceramic shaft, longer operation life.

Controller Features

- With 10 mode, adjustable the flow rate and head max.
- “Feed” Model, pause, timing, delay, restart function
- Memory function, ensure that the pump rework upon keeping the same parameter

Operating instructions

1. The pump must be connected with the controller and the 24V adaptor correctly before work. According to the need to choose different plug and supply cord .
2. Turn on the power, press "-" and "+" button, to adjust the pump flow rate and Head Max. and the LED instruction light will be on the relative mode
3. **Lock / unlock function:** press the "+" or "-" button for three seconds until the LED light flash for two times, the controller locked; Similarly, press the "+" or "-" button for three seconds again, LED indicator light flashes for two times, the controller unlocked
4. "FEED" function: when the pump is working, press "FEED" button, pump stops

working, the "10min" indicator lights up, the pump reworks automatically at previous level after 10 minutes. Or you can press the “FEED” button to make the pump rework.

The LED flashing status instruction

No.	The controller working status	LED flashing status	Elimination of abnormal phenomena
1	Over voltage or under voltage		Check the input supplying voltage
2	Controller overheating		Check whether the controller exposed to the sunshine or in high temperature environment
3	The impeller stops running		Check whether something in the pump or the parts are wrongly connected
4	Pump idling		Check the pump work dry
5	Abnormal current of the controller		Check if the pump short of voltage or the controller broken
6	Lock or unlock	Press the "+" or "-" button for three seconds until LED indicator flashing for two times, then the controller will turn to be locked or unlocked	The key may be broken if the light don't flash

Performance Parameters Table

No:	Model No:	Voltage	Control box (W)	Consumption (W)	Flow rate (L/H)	HeadMax(M)
1	DCW-2000	DC 24V	DCW-2000	20	2000	2.5
2	DCW-3000	DC 24V	DCW-3000	25	3000	3.0
3	DCW-4000	DC 24V	DCW-4000	32	4000	4.0
4	DCW-5000	DC 24V	DCW-5000	40	5500	4.0
5	DCW-6500	DC 24V	DCW-6500	55	6500	4.5
6	DCW-8000	DC 24V	DCW-8000	65	8000	5.5
7	DCW-10000	DC 24V	DCW-10000	80	10000	6.0

WARNING

- Do not connect to any other power supply over the rated voltage
- Do not put the pump in the flammable liquid.
- Do not use the pump in the water temperature above 35°C.
- The pump maximum diving depth is 1.5 meters.
- Maximum head Max please see the parameter table.
- Do not immerse the plug into water or other liquid.
- This appliance is not allowed to use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

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 Suitable for both fresh water and sea water

The pump house must be filled with 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 house fill with 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. If used as submersible pump, Please plug on and off for several times. If used as non-submersible pump, please connected power supply then plug and loose the pipe several times. it will work normally.

Used as submersible pumps (see fig.1)

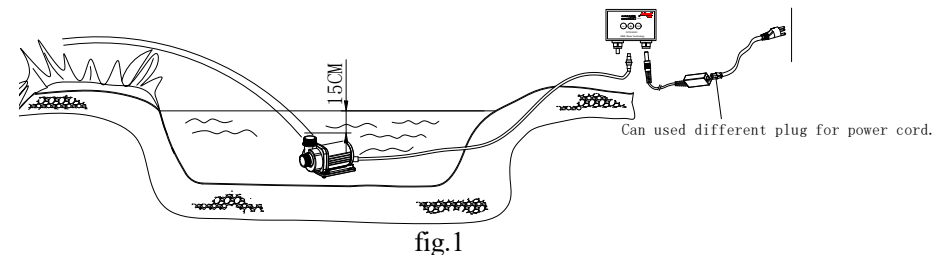
IMPORTANT: Do not let the pump run dry – this could cause damage to the motor.

- Submerge the pumps completely in your pond (or water tank) so as to make the pump body fill with water.
- A water level of approx. 15 cm is required for submersible use in order to prevent the pump from taking in air. (See fig.1)
- To prevent the filter becoming prematurely clogged, place the pump above the mud in the pond (or water tank) !
- Install the enclosed filter sponge to prevent the inlet from becoming clogged.
- The pump is designed to accommodate 3/4" internal threads as well as 1 1/4", or 1 1/2", or 3/4" external threads through the socket (fountain jets, nozzles, water height regulators, standpipes, etc.).
- Running in conjunction with fountain jets, the pump should be stationed firmly and horizontally (on a brick).
- The pump can be switched on by simply plugging it in and switched off by plugging off.
- The water temperature should not exceed 35°C (95°F) and do not let the pump freeze in the wintertime.

Used as non-submersible pumps (see fig.2)

- Position the pump lower than the water surface on the side of the pond (or water tank) so that the water can be drained to the pump because it is not self-priming.
- Remove the filter cover and connect suction hose (A) and pressure hose (B) from the pump. The connection should be waterproof.
- Fill the suction hose and pump with water before turning it on.
- To prevent the pump from becoming clogged, provide the suction hose with an adequate suction filter. Never let the pump run dry.

Product operation diagram:



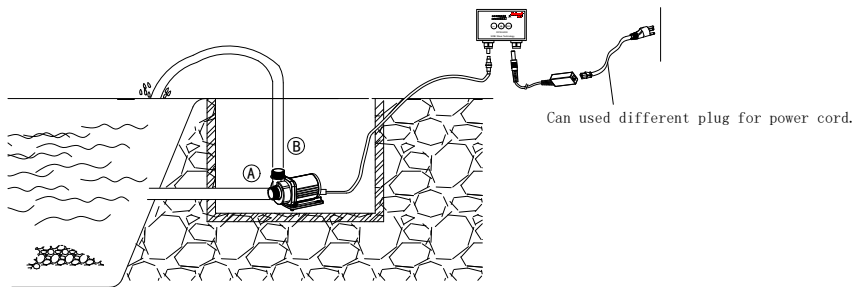
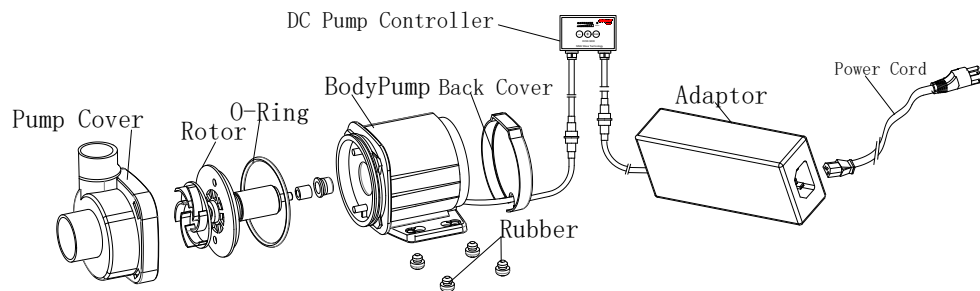


fig.2

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.

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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