



Water Level DCA DC Pump User's Manual

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.

Attention:

Sensor is a replacement Kits, Not Include Warranty. Suggestion for 8 to 12 months to Change. Please Keep the sensor Clean and keep water level consistency.

I. Performance Parameters Table

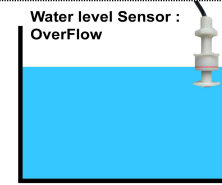
Model	Voltage	Consumption(W)	Flow rate (L/H)	Head Max(M)
DCA1200	DC24V	12	1200	1.4
DCA2000	DC24V	20	2200	2.2
DCA3000	DC24V	25	3200	2.7
DCA4000	DC24V	30	4200	3.2
DCA6000	DC24V	43	6200	3.6
DCA9000	DC24V	65	9200	5.2
DCA12000	DC24V	80	12200	6.0

II. Pump Features

1. High performance with innovational motor, and energy saving up to 50%, super quiet.
2. Suitable for both marine and fresh water, Rust free.
3. With anti-resistant ceramic shaft, last longer.
4. Auto Overflow Protection.
5. 10 / 30 / 50mins for feeding or change of water in aquarium use.
6. Water Lever Sensor - Overflow/water shortage.
7. Wave mode, 0~10Voutput (**only DCA4000/6000/9000/12000**)

Sensor Function Default is Overflow Function. If you want to set for the Below Water Alarm (No water) Function, please check this photo:

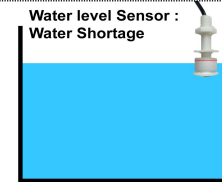
Water Level Function 1: Overflow Function(Default)



Overflow Function

When the waterline is on below, it is an overflow alarm.

Water Level Function 2: Out of Water Function



Out of Water Function

When the waterline is on top, it is an Water shortage alarm.

Function 2 out of water installation method :



Step1.

Take out the sensor in the middle and Invert the sensor to install.



Step2.

Please note the position of the sensors waterline. And install the parts

Notice: It's either Function 1 Or Function 2 active only, cannot doing Alarm on the same time for overflow or lack of water.

III. Buttons and Functions of LED Display Controller



Feed / Alarm

1. short press:

- Press the button for the first time, The RED light is on, the pump will pause for 10mins
- Press the button for the second time, The Green light is on, the pump will pause for 30mins
- Press the button for the third time, The Blue light is on, the pump will pause for 50mins
- Press the button for the fourth time to exit the feed mode.

*When system Press Feed mode and back to Normal, it will auto drop 2 speed down on it, and after 1 hours will become the first flow.(Example, if Default is 8 Speed, when press the feed mode it will drop to 6 Speed, after 1 hours will resume to 8 speed to protection overflow / not stable of the aquarium).

2.long press

■ The first long press, sensor pauses, the first lamp on the left side of the LED will flashes, and the pump resumes operation. If you press the feed button at this time, the pump will not drop 2 speed and it will directly return to the first flow.

■ The second long press will exit the first setting

▽ Arrow Key (down)

1.Short press: to adjust the flow rate.

2.Long press: 0~12Vinput for DIY, long press again to exit this mode.

△ Arrow Key (UP)

1.Short press: to adjust the flow rate.

2.Long press:enter lock mode,long press again to exit

△▽ Wave mode: Press the up and down keys at the same time to enter the wave mode.

IV.The LED flashing status instruction

Status	Led Flashing Status
OverFlow	■ ■ □ □ □ □ □ □ ■ ■
Switch Off sensor	▣ ■ ■ ■ ■ ■ ■ ■ ■
0~12V input DIY	□ □ □ ■ ■ ■ ■ □ □ □
Wave mode	□ □ □ □ □ □ □ □ ■
Abnormal controller current (possibly affected by other high-power appliances in the home)	□ □ □ □ ■ ■ □ □ □ □
Abnormal input voltage	■ ■ ■ □ □ □ □ ■ ■ ■
When the controller temperature is too high	■ □ □ □ □ □ □ □ □ ■

Lack of water	■ □ □ □ □ □ □ ■ ■ ■
Pump stuck, unable to turn	■ ■ ■ □ □ □ □ □ □ ■

V.CAUTION

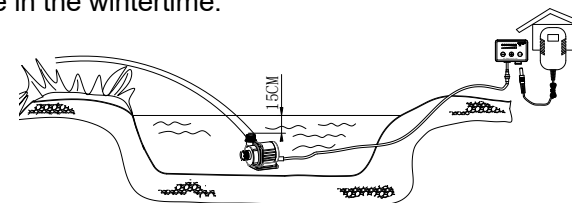
Always disconnect the pump from the power supply before cleaning, maintenance and handling.

- 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
- 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

1.Used as submersible pumps (see fig.1)

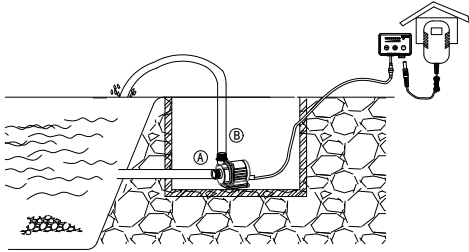
IMPORTANT:

- Do not let the pump run dry – this could cause damage to the motor.
- Submerge the pumps completely in your pond 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!
- 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 5/8" 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.



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

- Position the pump lower than the water surface on the side of the pond 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.



VI.Operation

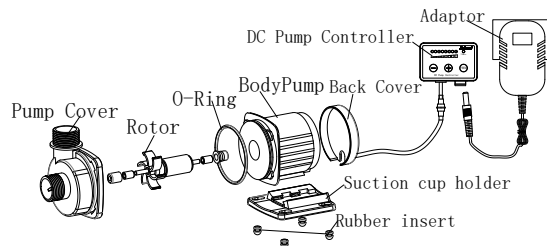
A clogged or dirty intake screen will reduce the performance.

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.

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.

VII.Installation diagram



VIII.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.

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.

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.

