

Funktion 5000 Controllable Multi Function Pump



# Funktion 5000 Controllable Multi Function Pump User Guide

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# Funktion

**Funktion 5000 Controllable Multi Function Pump**



## Specifications

- Product: Controllable multi-function pump
- Controller Features: Constant running setting, three wave modes
- Technology: Sine wave technology with low voltage motor
- Suitability: Saltwater and freshwater aquariums
- Usage: Return pump, media reactors/filters, closed-loop pump for additional wave flow (5000/6500/10000 models)

## Product Usage Instructions

### Unpacking

Check for delivery damage before unpacking. Inspect the product for any visible damage and ensure all parts are included. Contact the retailer if defects are found.

### Installation

Follow the provided guidelines for proper installation of the pump and controller.

### Using the Controller

The multifunction controller allows you to:

- Set power output of the pump
- Select flow mode
- Pause the pump for feeding
- Turn the pump on and off

### Adjusting the Mode

To change the mode, press the Mode button to cycle through available options.

### Changing the Power Output

Press the n button to adjust the power output. Set maximum and minimum power levels using the buttons. The controller saves settings automatically.

### Changing the Wave Frequency

In Pulse and Wave modes, adjust the frequency of power changes by holding the Mode button. Set frequency between 0.5 seconds and 10 seconds.

### **Feed Mode and Turning Pump ON/OFF**

Press the ; button to activate feed mode and pause the pump. Use the On/Off button to turn the pump on and off.

### **FAQ**

**Q:** What should I do if I encounter issues with the pump?

**A:** If you experience any problems with the pump, please refer to the warranty information or contact your retailer for assistance.

### **INTRODUCTION**

The D-D Funktion Pumps are a multi-function DC pump with a unique digital controller which features a constant running setting and three wave modes. The sine wave technology and low voltage motor offers ultra-low running noise, low heat output and energy efficiency.

These pumps are suitable for saltwater and freshwater aquariums. They can be used as a return pump, running media reactors/filters or as a closed loop pump on an aquarium for additional wave flow (5000/6500/10000 models only).

### **UNPACKING**

Please check for delivery damage before unpacking. Once opened, please inspect the product for any visible damage and check all parts are included. If any defects are found when unpacking, please contact your retailer immediately.

#### **Included in the box**

- D-D Funktion DC Pump
- D-D Funktion Digital Controller
- Standard suction cage
- 'Elephant Nose' suction attachment
- 24V Power Supply
- Inlet/outlet fittings pack
- Instruction booklet

### **LIMITED WARRANTY**

Should any defect in material or workmanship be found within 12 months of the date of purchase D-D The Aquarium Solution Ltd undertakes to repair, or at our discretion, replace the defective part free of charge. Our policy is one of continual technical improvement and we reserve the right to modify and adjust the specification of our products without prior notification.

### **PUMP AND CONTROLLER LAYOUT**

1. Pump Motor
2. Impeller Cover
3. Standard Suction Cage
4. Footplate

5. Pump Outlet Attachment
6. 'Elephant Nose' Suction Attachment
7. Impeller



1. Display Screen
2. On/Off and Feed Mode Button
3. Controller Mounting Bracket
4. Adjustment Down Button
5. 24V Power Connection
6. Power setting and Language Button
7. Adjustment Up Button
8. Pump Mode Button
9. Connection Cable to Pump



## INSTALLATION

The controller and its connections are not waterproof so should be installed in a dry location away from high humidity and water splashing.

A secure mounting bracket is included with the unit that can be fixed to a suitable surface with screws or double sided sticky pads, if the latter is used the controller should be positioned in a location where it will not fall into water if the sticky pads fail.

All pumps in the D-D Funktion range are fully submersible to a maximum depth of 1.5m and can be installed within a sump or inside the aquarium itself depending on the purpose the pump is being used for. The larger models (5000, 6500, and 10000) can be mounted externally and come with fittings included for attachment to metric solvent weld aquarium plumbing, the pumps are not self-priming so must be installed below the water level and be primed before switching on.

Allowing the pump to run dry or draw in air may cause damage to the motor and impeller.

When installing the pump, the position of the outlet can be changed to face sideways instead of upwards. To achieve this, slide the footplate towards the back of the pump to remove it and then rotate the impeller cover anticlockwise to release, re-position the faceplate to the desired direction and making sure the locating lugs match then rotate clockwise to lock in place.

Two different inlet attachments are included for use when running the pump submerged. When running submerged, the water depth should be enough to cover the pump body.

Standard Suction Cage – to stop large debris or aquarium inhabitants from being drawn into the pump.

'Elephant Nose' Suction attachment – For use when operating the pump in low water levels to avoid air being drawn from the surface or to reduce excess bubble carry-over.

## USING THE CONTROLLER







The multifunction controller can be used to set the power output of the pump, select the flow mode, pause the pump for feeding, or to turn the pump on and off.

Adjusting the Mode



To change the mode of the pump press the Mode button, with each press of the button the controller will move through the available options.

- **Pump** – Constant flow at a single adjustable set speed.
- **Pulse** – The flow will alternate between low and high speed settings.
- **Wave** – The flow will ramp up and down between low and high speed settings.
- **Storm** – The pump will perform a random flow pattern.


## Changing the Power Output

The power of the pump can be set by pressing the  button. Press once and 'Maximum Power' will appear on the screen, use the   buttons to set the maximum power of the pump between 30 and 100, press the  again and 'Minimum Power' will be shown, use   to set the minimum power (This can only be used for the Pulse and Wave modes). The controller will save the setting and return to the normal screen after 5 seconds of no buttons being pressed.


## Changing the Wave Frequency

In Pulse and Wave modes the frequency that the pump changes between the low and high power setting can be changed. Press and hold the Mode button until 'Frequency' appears on the screen, then use the   buttons to set the frequency between 0.5 seconds and 10 seconds. The controller will save the setting and return to the normal screen after 5 seconds of no buttons being pressed.


## Feed Mode and Turning the Pump ON/OFF

Press the  button to put the pump into feed mode, this will pause the pump for 10 minutes after which time the pump will return back to its last setting. During this period a countdown timer will be displayed on the screen, to





cancel feed mode before the timer ends, press the button again.

Holding the  button for 2-3 seconds will switch the pump on or off.

Changing the controller Language The controller screen can be changed to display in either English or German.

To change the language, press and hold the  button for 2-3 seconds.

### **Setting the screen brightness**

The display screen will light up brighter when changes are being made to any settings and then dim to a screensaver mode. To alter the brightness of the screen in both states press and hold the   buttons together for 2-3 seconds, until the brightness settings are displayed on the screen, then release. Using the  button will scroll through the screen brightness settings and pressing the  button will adjust the screensaver brightness. The controller will save the setting and return to the normal screen after 5 seconds of no buttons being pressed.

## **MAINTENANCE**

### **Cleaning the Impeller**

For the pump to run correctly, the impeller must be able to rotate freely on the ceramic shaft or bearings. It is recommended that the impeller is removed from the pump every 6-8 weeks and soaked in a suitable acid cleaning solution such as D-D EzeClean. This solution should also be used to descale the impeller opening in the pump body. Any algae or debris build up can be removed with a suitable soft bristled brush.

### **General cleaning**

Large debris should be removed from the inlet suction attachments using a soft brush under running water, any build-up of algae or other debris on the pump should be cleaned off in the same manner. Allowing the build-up of algae or debris on the inlet of the pump will restrict flow and prevent the pump from operating properly, continued running may damage the pump or impeller. The use of sharp objects or abrasive materials for cleaning may damage the pump and invalidate its warranty.

## **TROUBLESHOOTING**

Pump not working, no display on the controller.	Power issue.	<p>Check that the socket the power supply is plugged in to is operating properly and switched on.</p> <p>Check that the power supply is working and connected to the controller.</p> <p>Check that the power connection to the controller is clean, dry and free of salt creep.</p> <p>Check that none of the cables or connections are damaged.</p>
Pump not running ER03 or ER04 displayed on the controller.	<p>Impeller Jammed.</p> <p>Connection issue between pump and controller.</p> <p>Pump running dry.</p>	<p>Remove the impellor from the pump and clean as per the instruction manual.</p> <p>Check that the connection between the pump and controller is correct, clean, dry and free of salt creep.</p> <p>Check that the pump is submerged under water and any pipework is primed.</p> <p>Check pump cable and connections are not damaged.</p>
Pump not running ER01 or ER05 displayed on the controller.	Issue with power supply.	<p>Check that the correct power supply is being used and all connections are correct, clean, dry and free of salt creep.</p> <p>Check that the mains socket that the power supply is plugged into is working properly.</p> <p>Check that none of the cables or connections are damaged.</p>
Pump not running ER02 displayed on the controller.	Controller overheating	<p>Check that the controller is positioned in a suitable location away from heat sources.</p>

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**Documents / Resources**

Funktion

Controllable multi-function pump



PRODUCT USER MANUAL

## [Funktion 5000 Controllable Multi Function Pump](#) [pdf] User Guide

5000 Controllable Multi-Function Pump, 5000, Controllable Multi-Function Pump, Multi-Function Pump, Function Pump

## References

- [f D-D The Aquarium Solution](#)
- [D&D Aquarium Solution | D-D The Aquarium Solution](#)
- [User Manual](#)

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