

## Blau Aquaristic 7795004

# Blau Aquaristic Reef Motion 4KDC Instruction Manual

Model: 7795004

## 1. INTRODUCTION

The Blau Aquaristic Reef Motion 4KDC is a high-performance DC pump designed for aquarium applications. Featuring an elegant and creative design, this pump offers optimal quality for demanding customer requirements. Constructed from durable materials, it ensures prolonged and reliable use, making it a practical and useful addition to your aquatic system.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before operating the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect the power supply before performing any maintenance or cleaning.
- Do not operate the pump if the power cord or plug is damaged.
- Ensure the pump is fully submerged when operating in-water applications. Do not run dry.
- This pump is designed for aquarium use only. Do not use for other purposes.
- Keep out of reach of children.
- Ensure all electrical connections are dry and secure.

## 3. PRODUCT OVERVIEW

The Reef Motion 4KDC pump system includes the main pump unit, a DC controller, and various accessories for installation.



Figure 3.1: The main Blau Aquaristic Reef Motion 4KDC pump unit. This image shows the compact design of the pump with its inlet and outlet connections.



Figure 3.2: The Reef Motion 4KDC pump along with its included accessories, such as various hose connectors and a protective strainer for the inlet.



*Figure 3.3: The Reef Motion DC Controller, featuring a digital display for power adjustment and buttons for control. It also includes ports for power, pump connection, and optional level sensors.*



*Figure 3.4: The impeller component of the Reef Motion 4KDC pump, responsible for water movement. Regular inspection and cleaning of this part are crucial for optimal performance.*

# Reef Motion DC series



Figure 3.5: An overview of the Blau Aquaristic Reef Motion DC pump series, showcasing different models including the 4KDC.

## Key Features:

- **Energy Efficient:** Designed for low power consumption.
- **Quiet Operation:** Advanced design minimizes noise during operation.
- **Adjustable Flow Rate:** Precise control from 0-99% via the DC controller.
- **Safe Low Voltage:** Operates on 24V for enhanced safety.
- **Durable Construction:** Made with robust materials for long-term reliability.

## 4. SETUP

Follow these steps for proper installation of your Reef Motion 4KDC pump:

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts are present according to the packing list.
2. **Placement:**
  - For *submerged (internal)* use: Place the pump securely at the desired location within your sump or aquarium. Ensure it is stable and will not shift during operation.
  - For *external (in-line)* use: Position the pump on a flat, stable surface outside the water. Ensure it is below the water level of the source to allow for gravity feeding, or that it is properly primed before starting.
3. **Connect Hoses:** Attach the appropriate hose connectors to the pump's inlet and outlet. Secure hoses with clamps (not included) to prevent leaks. Ensure the inlet is clear of obstructions and, if used internally, attach the strainer.
4. **Connect Controller:** Connect the pump's cable to the "pump" port on the DC controller.
5. **Connect Power:** Plug the power adapter into the "power" port on the DC controller, then plug the power adapter into a suitable electrical outlet.

6. **Optional Level Sensors:** If using optional level sensors (e.g., for automatic top-off or low-water protection), connect them to the "level sensor 1" and "level sensor 2" ports on the controller as per their specific instructions.

## 5. OPERATING

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The Reef Motion 4KDC pump is controlled via its dedicated DC controller.

1. **Power On:** Once connected, the controller's display will illuminate.
2. **Adjust Flow Rate:**
  - Use the + button to increase the pump's power and flow rate.
  - Use the - button to decrease the pump's power and flow rate.
  - The digital display shows the current power setting, typically from 0 to 99 or 100.
3. **Pause Function:** Press the || (pause) button to temporarily stop the pump. Press it again to resume operation at the previous setting. This is useful for feeding or maintenance.
4. **Computer Port:** The "computer port" allows for advanced control and integration with aquarium controllers (e.g., GHL Profilux) using a 1-10V interface. Refer to your aquarium controller's manual for specific connection and configuration details.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your pump.

- **Cleaning the Impeller:**
  - a. Disconnect the pump from the power supply.
  - b. Disassemble the pump housing to access the impeller chamber.
  - c. Remove the impeller (refer to Figure 3.4).
  - d. Clean the impeller and its chamber thoroughly using a soft brush and warm water. For stubborn deposits, a mild vinegar solution can be used, followed by a thorough rinse.
  - e. Inspect the impeller for any damage or wear. Replace if necessary.
  - f. Reassemble the pump, ensuring all seals and O-rings are correctly seated.
- **Hose and Connection Check:** Periodically inspect hoses and connections for kinks, blockages, or leaks.
- **Controller Care:** Keep the controller dry and clean. Avoid exposing it to water or extreme temperatures.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Pump not starting	No power; loose connection; impeller jammed; dry run protection activated.	Check power supply and connections. Clean impeller. Ensure pump is submerged if used internally.

Problem	Possible Cause	Solution
Reduced flow rate	Clogged impeller or inlet; kinked hose; incorrect power setting.	Clean impeller and inlet strainer. Check hoses for obstructions. Increase power setting on controller.
Unusual noise/vibration	Air in pump; impeller damaged or misaligned; foreign object in pump.	Ensure pump is fully primed and free of air. Inspect and clean impeller. Remove any foreign objects.
Controller display off	No power to controller; faulty power adapter.	Check power outlet and connections. Test power adapter if possible.

## 8. SPECIFICATIONS

Attribute	Value
Brand	Blau Aquaristic
Model Number	7795004
Product Dimensions (L x W x H)	13 x 22 x 18 cm
Item Weight	2.03 Kilograms
Color	Grey, Black
Material	Metal
Power Source	Corded Electric
Voltage	24 Volt
Maximum Flow Rate	4000 Liters per hour
Maximum Head Height	3.2 meters (approx. 126 inches)
Country of Origin	Italy

## 9. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Blau Aquaristic website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

General return policies may vary by retailer. For purchases made on Amazon, please refer to Amazon's return policy for details regarding product returns within 30 days of receipt.

For further assistance, you may visit the [product page on Amazon.it](#).