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› **AQQA DC Aquarium Water Pump (Model AQ169) Instruction Manual**

**AQQA AQ169**

# AQQA DC Aquarium Water Pump (Model AQ169)

Instruction Manual

## 1. INTRODUCTION

Thank you for choosing the AQQA DC Aquarium Water Pump. This manual provides essential information for the safe and efficient operation of your pump. Designed for versatility, this pump is suitable for various aquatic environments, including freshwater and saltwater aquariums, ponds, fountains, and hydroponic systems. Its smart control features, quiet operation, and durable design ensure reliable performance.



Image 1: AQQA DC Aquarium Water Pump, showing the pump unit, external controller, and two interchangeable nozzles.

## 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, installation, or cleaning.
- Ensure the pump is fully submerged in water during operation to prevent dry burning and damage.
- Do not operate the pump if the power cord or plug is damaged.
- This pump is designed for indoor use in aquatic environments only. Do not use it for purposes other than those specified.
- Keep out of reach of children.
- The pump operates on a 12V DC low-voltage output, reducing shock risks. However, always handle electrical components with care.

### 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x AQQA DC Aquarium Water Pump
- 1 x External Controller
- 2 x Interchangeable Nozzles (6/8mm and 10/12mm)
- 1 x Power Cord (approximately 10.83 ft)
- 1 x Instruction Manual

### 4. PRODUCT OVERVIEW

The AQQA DC Aquarium Water Pump is a compact and efficient submersible pump featuring an external controller for easy operation.

#### Pump Unit Features:

- **Submersible Design:** IP68 waterproof rating for continuous underwater operation.
- **Quiet Operation:** Pure copper motor ensures low noise levels (<30dB).
- **Suction Cups:** Four strong suction cups on the base for secure placement.
- **Low Water Level Design:** Capable of operating effectively at water levels as low as 1.5cm (0.59 inches), allowing for thorough drainage.
- **Anti-Dry Burning Protection:** Automatically shuts off if water levels are too low to prevent damage.



Image 2: The AQQA pump unit highlighting its anti-dry burning protection feature, which prevents damage when water levels are too low.

#### External Controller Features:

- **ON/OFF Button:** Powers the pump on or off.
- **Flow Adjustment Buttons (+/-):** Adjusts water flow rate across 4 levels.
- **FEED Button:** Activates feeding mode, pausing the pump for 10 minutes.

- **Indicator Lights:** Display current flow rate/lift level and feeding mode status.



Image 3: Close-up of the external controller, showing the ON/OFF, flow adjustment (+/-), and FEED buttons, along with indicator lights for flow rate and feeding mode.

## 5. SETUP

Follow these steps to install your AQQA DC Aquarium Water Pump:

1. **Choose Nozzle:** Select the appropriate nozzle (6/8mm or 10/12mm) for your tubing system and securely attach it to the pump's outlet.
2. **Position Pump:** Place the pump unit at the desired location within your aquarium, pond, or water feature. Ensure it is fully submerged. The four suction cups on the base will help secure it to a clean, smooth surface.
3. **Connect Controller:** Connect the pump's cable to the external controller.
4. **Connect Power:** Plug the power cord from the controller into a suitable electrical outlet (110V-240V).
5. **Verify Water Level:** Ensure the water level is sufficient to cover the pump completely. The pump can operate at low water levels (down to 1.5cm) but full submersion is recommended for

optimal performance and longevity.

## LOW WATER LEVEL DESIGN

All-Round Suction & Cleanable



Image 4: The AQQA pump demonstrating its ability to operate effectively at low water levels, with all-around suction at the bottom to remove dirt.

## 6. OPERATING INSTRUCTIONS

The external controller provides easy access to all pump functions.

### Power On/Off:

- Press the **ON/OFF** button once to turn the pump on or off.

### Adjusting Flow Rate:

- Use the **+** button to increase the flow rate.
- Use the **-** button to decrease the flow rate.
- There are 4 adjustable flow levels, indicated by the lights on the controller.

### Feeding Mode:

- To activate feeding mode, press and hold the **FEED** button for 5 seconds.
- The pump will pause for 10 minutes, allowing fish to feed without strong currents.

- After 10 minutes, the pump will automatically restart at its previous flow setting.

Your browser does not support the video tag.

Video 1: Demonstrates the AQQA DC Water Pump's internal circulation, ultra-quiet operation, oxygen generation, wave-making capability, and the feeding mode function with the external controller.

## 7. MAINTENANCE

Regular cleaning and maintenance will ensure the longevity and optimal performance of your pump.

1. **Disconnect Power:** Always unplug the pump from the power outlet before any maintenance.
2. **Disassemble Pump:** The pump is designed for tool-free disassembly. Gently remove the filter cover and then the impeller assembly.
3. **Clean Components:** Rinse all parts (impeller, filter cover, pump housing interior) under clean water. Use a soft brush to remove any accumulated debris, algae, or mineral deposits. Ensure the impeller spins freely.
4. **Reassemble:** Carefully reassemble the pump, ensuring all parts fit correctly.
5. **Regular Checks:** Periodically check the pump and tubing for any blockages or wear.

## NO TOOLS REQUIRED EASY TO CLEAN



Image 5: Exploded view of the AQQA pump, illustrating how to easily disassemble the outlet nozzle, filter cover, and motor for cleaning without tools.

## 8. TROUBLESHOOTING

If you encounter issues with your pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start	No power; Impeller jammed; Dry burning protection activated.	Check power connection; Disconnect and clean impeller; Ensure pump is fully submerged.
Low flow rate	Blockage in pump or tubing; Flow rate set too low; Impeller worn.	Clean pump and tubing; Increase flow rate using controller; Inspect/replace impeller if necessary.
Excessive noise	Debris in impeller; Pump not securely placed; Air trapped in pump.	Clean impeller; Re-secure pump with suction cups; Gently shake pump to release air.
Pump stops intermittently	Dry burning protection; Overheating; Loose connection.	Check water level; Ensure adequate ventilation (if applicable); Check all electrical connections.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	AQ169
Power	25 Watts
Maximum Flow Rate	2200 Liters Per Hour (480 GPH)
Maximum Lifting Height	7.2 Feet
Voltage Input	110-240V / 50-60Hz
Voltage Output	12V DC
Product Dimensions	2.6" L x 2" W x 3" H
Item Weight	12.8 ounces
Material	Acrylonitrile Butadiene Styrene (ABS)
IP Rating	IP68
Nozzle Sizes	6/8mm, 10/12mm
Power Cord Length	10.83 ft

## 10. WARRANTY AND SUPPORT

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AQQA stands behind the quality of its products. For specific warranty details and terms, please refer to the warranty information provided at the time of purchase or visit the official AQQA website.

If you require technical assistance, have questions about your product, or need to report an issue, please contact AQQA customer support through the retailer where you purchased the product or via the contact information available on the official AQQA website.

Please have your model number (AQ169) and purchase date ready when contacting support.

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