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> ViaAqua VA180 80 GPH Adjustable Submersible Water Pump Instruction Manual

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Instruction Manual

INTRODUCTION

The ViaAqua VA180 submersible water pump is designed for energy-efficient and versatile water circulation. Featuring an enhanced motor design and magnetic rotor technology, this unit operates silently while providing powerful and reliable performance. It is suitable for various applications including undergravel filtration, water circulation in aquariums, and desktop fountains.



Image: The ViaAqua VA180 submersible water pump, a compact gray unit with a power cord and suction cups visible on the bottom.

SAFETY INFORMATION

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

- **Disconnect Power:** Always unplug the pump from the power source before performing any maintenance, installation, or handling.
- **Submersible Use Only:** This pump is designed for fully submersible operation. Do not run the pump dry, as this can cause damage and void the warranty.
- **Electrical Safety:** Ensure the power outlet is properly grounded. Do not use extension cords unless absolutely necessary, and ensure they are rated for outdoor use if applicable and properly grounded.
- **Water Temperature:** Do not use this pump with water temperatures exceeding 95°F (35°C).
- **Children and Pets:** Keep the pump and its electrical connections out of reach of children and pets.
- **Inspection:** Regularly inspect the power cord for any damage. Do not use the pump if the cord is frayed or damaged.

PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation:

- 1x ViaAqua VA180 Submersible Water Pump
- 1x Airline with silencer
- 1x Undergravel filter strainer
- 1x ½ inch discharge adapter
- 1x Discharge venturi
- 1x Output elbow
- 1x Control valve



Image: The ViaAqua VA180 pump displayed alongside its various accessories, including tubing, adapters, and a control valve.

SETUP INSTRUCTIONS

1. **Placement:** Position the pump in the desired location within your water feature, aquarium, or hydroponic system. Ensure it is fully submerged in water. The integrated suction cups on the bottom of the pump can be used to secure it firmly to a smooth surface.
2. **Tubing Connection:** Connect the appropriate tubing to the pump's discharge outlet. The pump is designed to fit either ½ inch ID (Inner Diameter) or 3/8 inch ID tubing. Select the correct adapter if necessary and ensure a snug fit to prevent leaks.
3. **Accessory Installation:** Attach any desired accessories such as the undergravel filter strainer, discharge venturi, or output elbow to the tubing or directly to the pump's outlet as required for your specific application.
4. **Flow Control:** If using the included control valve, install it inline with the tubing to allow for manual adjustment of the water flow rate.



Image: A close-up view of the ViaAqua VA180 pump, highlighting its power cord entry point and the four suction cups on its base for secure placement.

OPERATING INSTRUCTIONS

1. **Submerge Pump:** Ensure the pump is completely submerged in water before connecting it to power. Running the pump dry will cause damage.
2. **Connect Power:** Plug the pump's power cord into a suitable, grounded electrical outlet. The pump should begin operating immediately.
3. **Adjust Flow (if applicable):** If you have installed the control valve, turn the valve to increase or decrease the water flow to your desired level.
4. **Monitor Operation:** Observe the pump for a few minutes to ensure proper operation and check for any leaks or unusual noises.

MAINTENANCE

Regular maintenance will ensure the longevity and efficient operation of your ViaAqua VA180 pump.

- **Disconnect Power:** Always unplug the pump before performing any maintenance.
- **Cleaning:** Periodically remove the pump from the water and disassemble the impeller housing (if removable) to clean any accumulated debris, algae, or mineral deposits. A small brush can be used to clean the impeller and pump interior.
- **Impeller Inspection:** Check the impeller for any signs of wear or damage. A worn impeller can reduce pump performance.
- **Tubing Inspection:** Inspect tubing for kinks, blockages, or algae buildup that might restrict water flow.
- **Reassembly:** After cleaning, reassemble the pump carefully, ensuring all parts are securely in place.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not run	No power to pump Impeller jammed Pump motor failure	Check power outlet and connections Disconnect power, clean impeller area Contact manufacturer support
Low water flow	Clogged intake or impeller Kinked or blocked tubing Water level too low Flow control valve partially closed	Disconnect power, clean pump and impeller Inspect and clear tubing Add water to ensure full submersion Adjust flow control valve
Pump is noisy	Debris in impeller Pump not securely placed Running dry	Disconnect power, clean impeller Ensure suction cups are firmly attached Ensure pump is fully submerged

SPECIFICATIONS

- **Brand:** ViaAqua
- **Model:** VA-180
- **Color:** Grey
- **Dimensions (L x W x H):** 2.25 x 1.25 x 1.7 inches
- **Maximum Head:** 24 inches
- **Wattage:** 5 watts
- **Maximum Flow Rate:** 80 GPH (Gallons Per Hour)
- **Tubing Compatibility:** 1/2 inch ID or 3/8 inch ID
- **Power Source:** AC/DC
- **Material:** Plastic
- **Features:** Energy Efficient, Fully Submersible, Quiet Running, Oil-Free Motor, For Fresh & Saltwater Environments

WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer, ViaAqua, or your

authorized dealer. Keep your purchase receipt as proof of purchase.

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