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› [VIVOHOME 790GPH 55W Electric Submersible Water Pump User Manual](#)

## VIVOHOME 790GPH-55W

# VIVOHOME 790GPH 55W Electric Submersible Water Pump User Manual

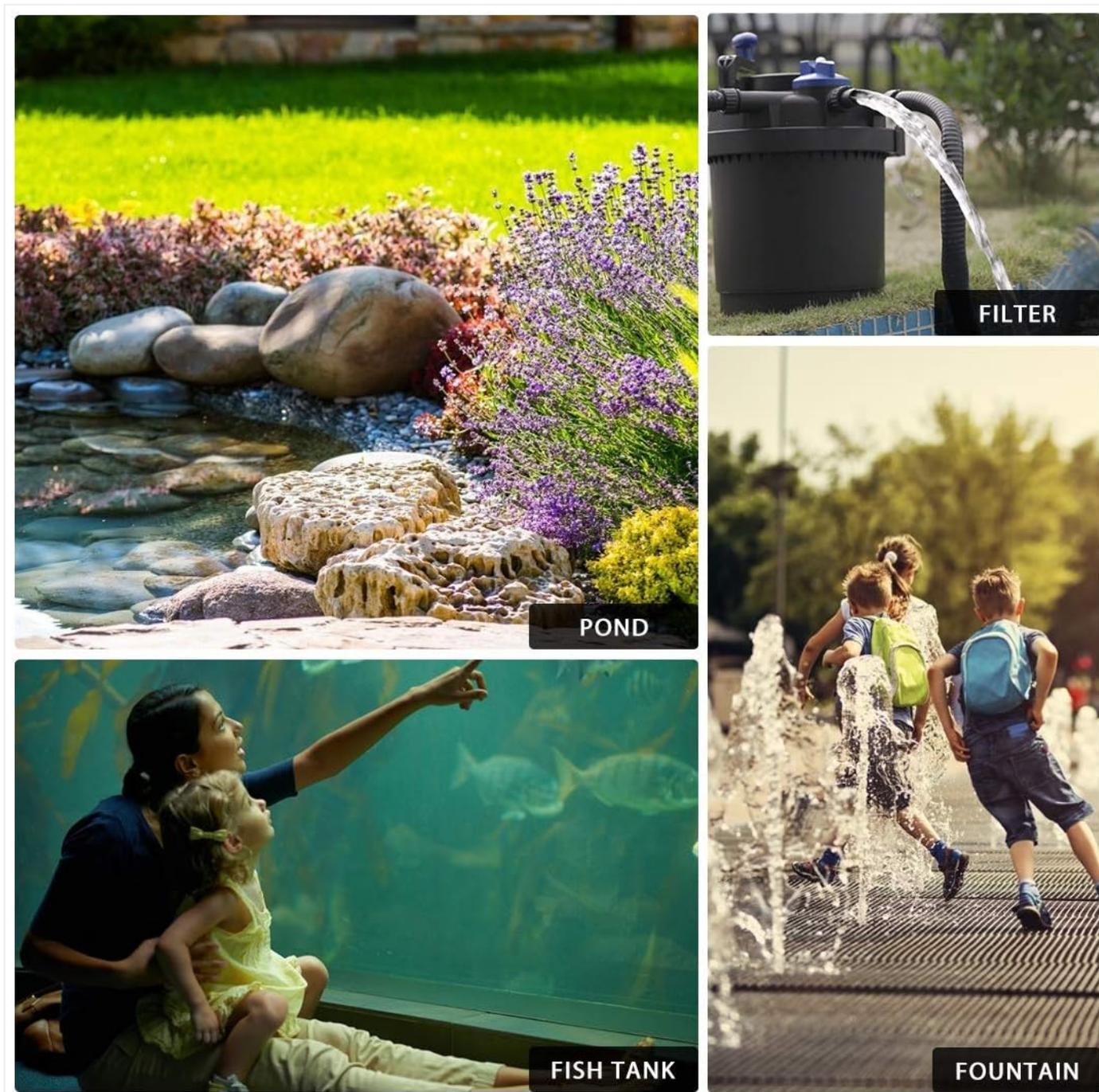
Model: 790GPH-55W

## 1. INTRODUCTION

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Thank you for choosing the VIVOHOME 790GPH 55W Electric Submersible Water Pump. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your pump. Please read these instructions thoroughly before use and retain them for future reference.

This submersible pump is designed for various water circulation applications, including ponds, fountains, rockeries, bourns, garden watering, hydroponics, and both fresh and saltwater aquarium tanks.



**Figure 1.1: Wide Applications.** The VIVOHOME submersible pump is suitable for diverse water features such as ponds, fountains, and aquariums.

## 2. IMPORTANT SAFETY INSTRUCTIONS

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To reduce the risk of electric shock, injury, or property damage, always observe basic safety precautions, including the following:

- **Read all instructions:** Before operating the pump, read and understand all safety warnings and operating instructions.
- **Electrical Safety:**
  - Ensure the power supply voltage matches the pump's requirements.
  - Always connect to a grounded outlet.
  - Do not operate the pump if the power cord or plug is damaged.
  - Never pull the pump by its power cord.

- Keep all electrical connections dry.
- **Submersible Use Only:** This pump is designed for fully submersible operation. Do not run the pump dry, as this can cause damage and overheating.
- **Overheating Protection:** The pump features an automatic overheating protection device. If the motor overheats (e.g., due to running without water), it will automatically cut off power. The pump will restart automatically once the temperature cools down.
- **Water Quality:** This pump is suitable for both fresh and saltwater applications.
- **Children and Pets:** Keep children and pets away from the pump and water features while the pump is operating.
- **Maintenance:** Always disconnect the power supply before performing any maintenance, cleaning, or adjustments.

### 3. PRODUCT OVERVIEW AND COMPONENTS

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The VIVOHOME submersible pump is designed for efficient water circulation with a focus on durability and ease of maintenance. Key components are illustrated below.



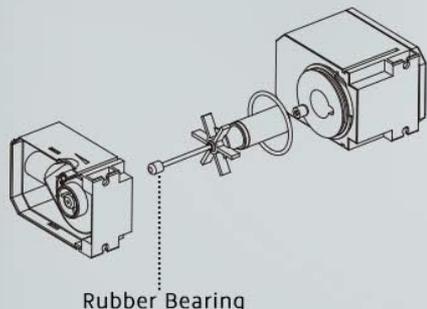
**Figure 3.1: Pump Components.** This diagram shows the main parts of the VIVOHOME submersible pump, including the motor, upper and lower filter baskets, O-ring, nut, and outlet. The design allows for easy disassembly for cleaning and maintenance.



**Figure 3.2: Motor Overheating Protection.** The pump is equipped with an overheating protection device that automatically cuts off power during an overload or if the motor overheats. It will automatically restart once the temperature returns to a safe level.

# MOTOR DESIGN

The friction between the rubber bearing and the shaft is very small, the rubber anti-sound damping effect is obvious.



Rubber Bearing

Rubber bearing can stand wear and tear for long service life



Buckle design can be opened manually, no tools needed



UL WIRE

33ft-long, grounded wise

**Figure 3.3: Motor Design and Power Cord.** The motor features a durable rubber bearing designed to minimize friction and provide anti-sound damping. The pump casing uses a buckle design for easy, tool-free access. It includes a 33-foot UL-certified grounded power cord.

The pump is constructed with a high-quality ceramic shaft, free of copper, ensuring anti-rust and wear-resistant properties for extended lifespan. It also includes a large pre-filter screen to prevent clogging from larger debris and protect aquatic life.

## 4. SETUP AND INSTALLATION

Follow these steps to properly set up your VIVOHOME submersible water pump:

1. **Unpack the Pump:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Choose an Outlet Size:** The pump comes with three different size outlets: 3/4", 1", and 1 1/4". Select the appropriate outlet for your hose diameter. The threaded design helps secure the hose connection.
3. **Connect the Hose:** Attach your desired hose to the selected outlet. Ensure a tight fit to prevent leaks. An additional gasket is provided to help ensure a well-sealed connection.

4. **Position the Pump:** Place the pump fully submerged in the water feature (pond, fountain, aquarium, etc.). Ensure it rests on a stable, level surface and is not obstructed by debris. The pre-filter screen should be clear of large obstructions.
5. **Connect to Power:** Once the pump is correctly positioned and submerged, plug the grounded power cord into a suitable, grounded electrical outlet.



**Figure 4.1: Water Connection and Outlet Options.** The pump offers three interchangeable outlet diameters (3/4", 1", 1 1/4") to accommodate various hose sizes. Its pre-filter design can obstruct particles larger than 7mm, protecting the pump from damage.

## 5. OPERATING INSTRUCTIONS

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Once the pump is installed and connected to power, it will begin operating. Observe the following for optimal performance:

- **Continuous Operation:** This pump is designed for continuous operation in fully submerged conditions.
- **Monitor Water Level:** Ensure the pump remains fully submerged at all times to prevent dry running and activation of the overheating protection.
- **Overheating Protection:** If the pump stops unexpectedly, check if the water level is too low or if there's an obstruction causing the motor to overheat. The pump will automatically resume operation once it cools down and conditions are safe.
- **Flow Adjustment:** While this model does not feature an adjustable flow rate, the flow can be influenced by the diameter of the hose used and the height the water is pumped.

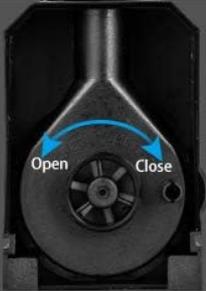
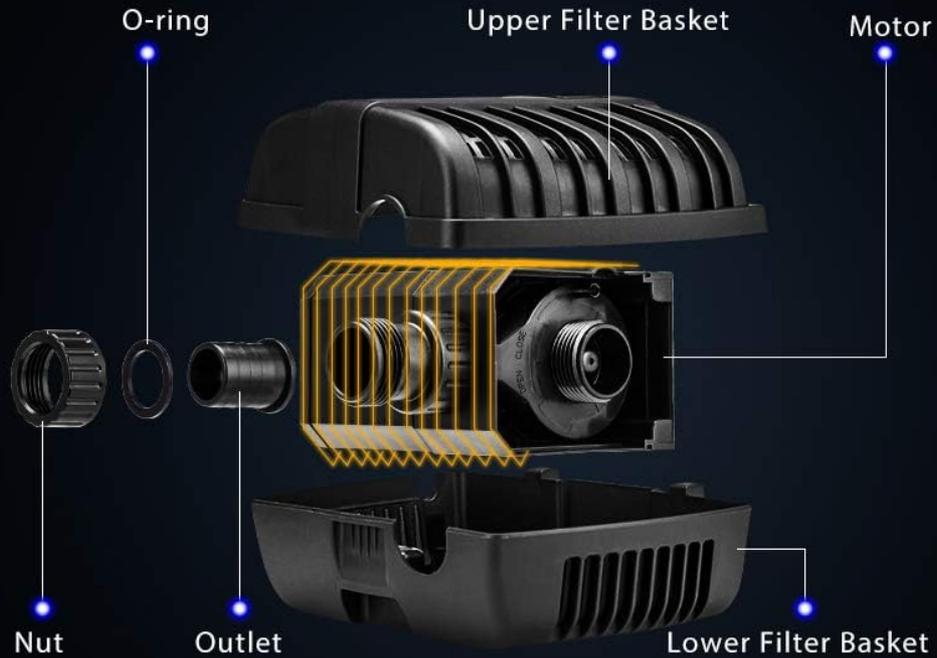
## 6. MAINTENANCE AND CLEANING

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Regular maintenance ensures the longevity and efficient performance of your pump. Always disconnect the power supply before cleaning or performing any maintenance.

1. **Disassembly:** The pump is designed for easy, tool-free disassembly. Unbuckle the casing to access the motor and filter baskets.
2. **Clean Pre-Filter Screen:** Regularly inspect and clean the large pre-filter screen to remove accumulated debris. This prevents clogging and maintains optimal water flow.
3. **Clean Impeller and Motor:** Remove the impeller cover and impeller. Clean any debris or mineral deposits from the impeller and the motor housing using a soft brush and clean water. The ceramic shaft is wear-resistant but should also be kept clean.
4. **Reassembly:** Reassemble the pump components in reverse order, ensuring all parts are securely fitted and the O-ring is properly seated to maintain a watertight seal.
5. **Winter Storage (if applicable):** In freezing climates, remove the pump from the water feature before winter. Clean it thoroughly and store it in a frost-free location.

# WATER PUMP FEATURE



ROTABILITY



## EASY TO USE

Easy disassembly of motor, no tool required



Environmentally  
Friendly



convenient

**Figure 6.1: Easy Disassembly for Maintenance.** The pump's design allows for easy, tool-free disassembly of the motor and filter components, making cleaning and maintenance straightforward and convenient.

## 7. TROUBLESHOOTING

If your pump is not operating correctly, refer to the following troubleshooting guide:

| Problem                                    | Possible Cause  | Solution  |
|--|---|---|
| Pump does not start or stops unexpectedly. | <ul style="list-style-type: none"> <li>No power supply.</li> <li>Overheating protection activated.</li> <li>Impeller jammed by debris.</li> </ul> | <ul style="list-style-type: none"> <li>Check power connection and outlet.</li> <li>Ensure pump is fully submerged and water level is adequate. Allow pump to cool down; it will restart automatically.</li> <li>Disconnect power, disassemble, and clean the impeller and housing.</li> </ul> |

| Problem             | Possible Cause  | Solution   |
|---------------------|---|--|
| Reduced water flow. | <ul style="list-style-type: none"> <li>o Clogged pre-filter screen.</li> <li>o Debris in impeller.</li> <li>o Kinked or obstructed hose.</li> </ul> | <ul style="list-style-type: none"> <li>o Disconnect power, clean the pre-filter screen.</li> <li>o Disconnect power, disassemble, and clean the impeller.</li> <li>o Check hose for kinks or blockages.</li> </ul> |
| Pump is noisy.      | <ul style="list-style-type: none"> <li>o Debris in impeller.</li> <li>o Pump not stable.</li> <li>o Running dry.</li> </ul>                         | <ul style="list-style-type: none"> <li>o Disconnect power, clean the impeller.</li> <li>o Ensure pump is on a stable, level surface.</li> <li>o Ensure pump is fully submerged.</li> </ul>                         |

## 8. TECHNICAL SPECIFICATIONS

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Below are the technical specifications for the VIVOHOME 790GPH 55W Electric Submersible Water Pump:

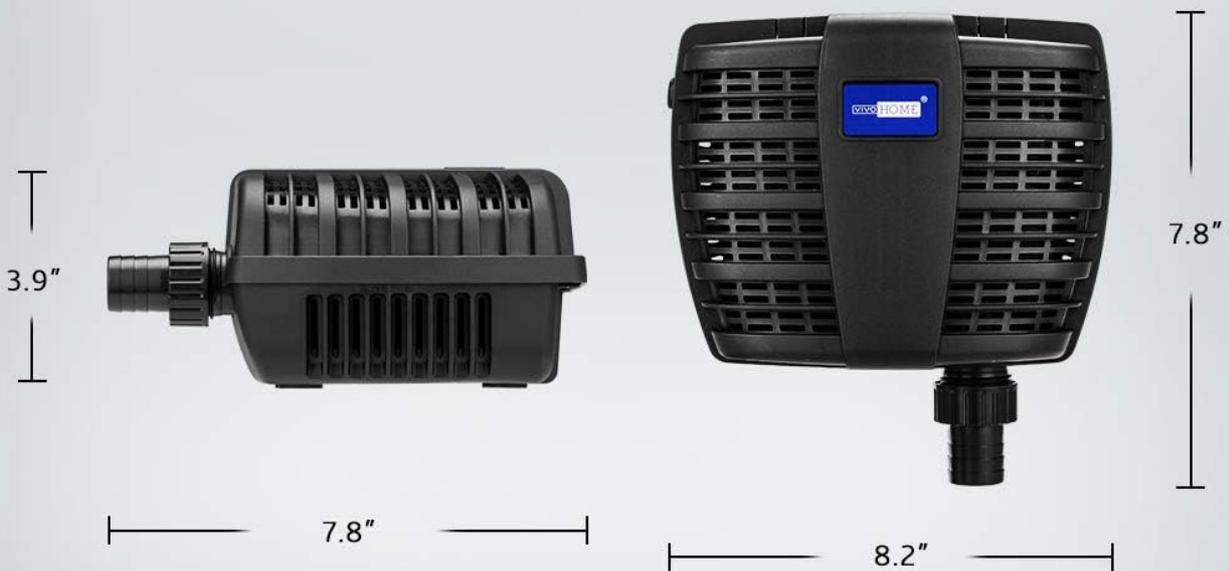
|                           |   |
|---------------------------|---|
| <b>Model</b>              | 790GPH-55W  |
| <b>Output (Flow Rate)</b> | 790 GPH (3000 L/H)                                |
| <b>Power Consumption</b>  | 55W   |
| <b>Max Head (Hmax)</b>    | 9.8 FT  |
| <b>Power Source</b>       | Corded Electric                                   |
| <b>Item Weight</b>        | 6.23 pounds                                       |
| <b>Package Dimensions</b> | 11.6 x 10.1 x 6.5 inches                          |
| <b>Outlet Sizes</b>       | 3/4", 1", 1 1/4"                                  |
| <b>Special Features</b>   | Detachable, Easy to Clean, Overheating Protection |
| <b>Shaft Material</b>     | Ceramic (no copper)                               |

# PRODUCT SPECIFICATIONS:

VIVOHOME

PACKAGE DIMENSION: 11.2\*10.4\*6.1 Inch  
OUTOPUT: 790 GPH  
POWER: 55W

PACKAGE WEIGHT: 6.8 Lbs  
Hmax: 9.8 FT



**Figure 8.1: Product Specifications and Dimensions.** This image provides a summary of the pump's key specifications and a visual representation of its physical dimensions.

## 9. WARRANTY AND CUSTOMER SUPPORT

For warranty information or if you encounter any issues not covered in this manual, please contact VIVOHOME customer support. Keep your purchase receipt as proof of purchase.

You can typically find contact information on the VIVOHOME official website or through the retailer where you purchased the product.

