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> VIVOHOME Electric 310W 5300GPH Submersible Water Pump Instruction Manual

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MODEL: 5300GPH-310W

INTRODUCTION

The VIVOHOME Electric 310W 5300GPH Submersible Water Pump is designed for powerful and efficient water circulation in various aquatic environments. Delivering an impressive 5300 gallons per hour with a maximum lift height of 24 feet, this pump is ideal for koi ponds, water gardens, fountains, aquariums, waterfalls, hydroponic systems, and irrigation setups.

Constructed from high-quality ABS material with a ceramic motor shaft and silicon carbide drive ring, it ensures durability and extended service life. The epoxy-sealed motor provides superior water resistance (IPX8 rating) and insulation. Featuring advanced magnetic drive motor technology, it operates with minimal energy consumption and maintains a low noise level (30-40 dB), ensuring a peaceful environment. Its thoughtful design includes a protective mesh shield to prevent debris intake, a portable handle for easy mobility, and a pre-wired 20.3-foot power cord for flexible placement.



Image: VIVOHOME 5300GPH Submersible Water Pump, showcasing its compact design.

SAFETY INSTRUCTIONS

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

- Always disconnect the pump from the power supply before handling, installing, or performing any maintenance.
- Ensure the pump is connected to a grounded outlet with appropriate voltage (120 Volts).
- Do not operate the pump dry. Ensure it is fully submerged in water during operation to prevent overheating and damage.
- Do not use the pump for flammable or corrosive liquids. It is designed for water only.
- Regularly inspect the power cord for any damage. Do not use the pump if the cord is damaged.
- Keep children and pets away from the pump and water feature during operation.
- Ensure proper ventilation if used in an enclosed space.

PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package:

- VIVOHOME 310W 5300GPH Submersible Water Pump
- Adjustable Water Outlet Adapters (1-1/4" and 1-3/4" inner diameter compatible)
- Protective Mesh Shield
- Rubber Suction Cups (4x)
- Pre-wired Power Cord (20.3 feet)

Engineered for Longevity



Oil-Free



Easy to clean



IPX8 Waterproof

Image: Exploded view showing the pump's internal components and detachable mesh cover.

SETUP

Assembly

1. Attach the four rubber suction cups to the base of the pump for stability and vibration reduction.
2. Select the appropriate water outlet adapter (1-1/4" or 1-3/4") for your tubing and securely screw it onto the pump's water outlet.
3. Connect your desired tubing to the installed water outlet adapter. Secure it with a clamp if necessary (clamp not included).
4. Ensure the protective mesh shield is properly installed around the pump's intake to prevent large debris from entering.

**Adjustable
Nozzle Angle**
5-Angle Outlet

0-20 dB 20-30 dB **(30-40) dB** 51-80 dB 80-100 dB

Low Noise

Image: The pump demonstrating its adjustable nozzle angle for varied water spraying needs.

Placement

Place the pump fully submerged in the water feature. The suction cups will help secure it to a clean, flat surface. Ensure the power cord is routed safely and does not interfere with the pump's operation or pose a tripping hazard.



Image: Multi-scene application of the pump, including irrigation, ponds, fountains, aquariums, and waterfalls.

Video: Setup and Operation Overview

Video: This official VIVOHOME video demonstrates the assembly, connection of tubing, and initial operation of the submersible water pump, including its placement in a water body and showcasing its powerful flow.

OPERATING INSTRUCTIONS

Powering On/Off

To operate the pump, simply plug the power cord into a suitable grounded electrical outlet. The pump will begin operating immediately. To turn off the pump, unplug it from the electrical outlet.

Flow Direction Adjustment

The water outlet direction can be adjusted to 5 positions to meet different water spraying needs. This allows for customization of water flow for various applications.

High-Performance Circulation

5300 GPH

Max.Flow Rate

24 FT

Max.Lift Height

310 W

Motor

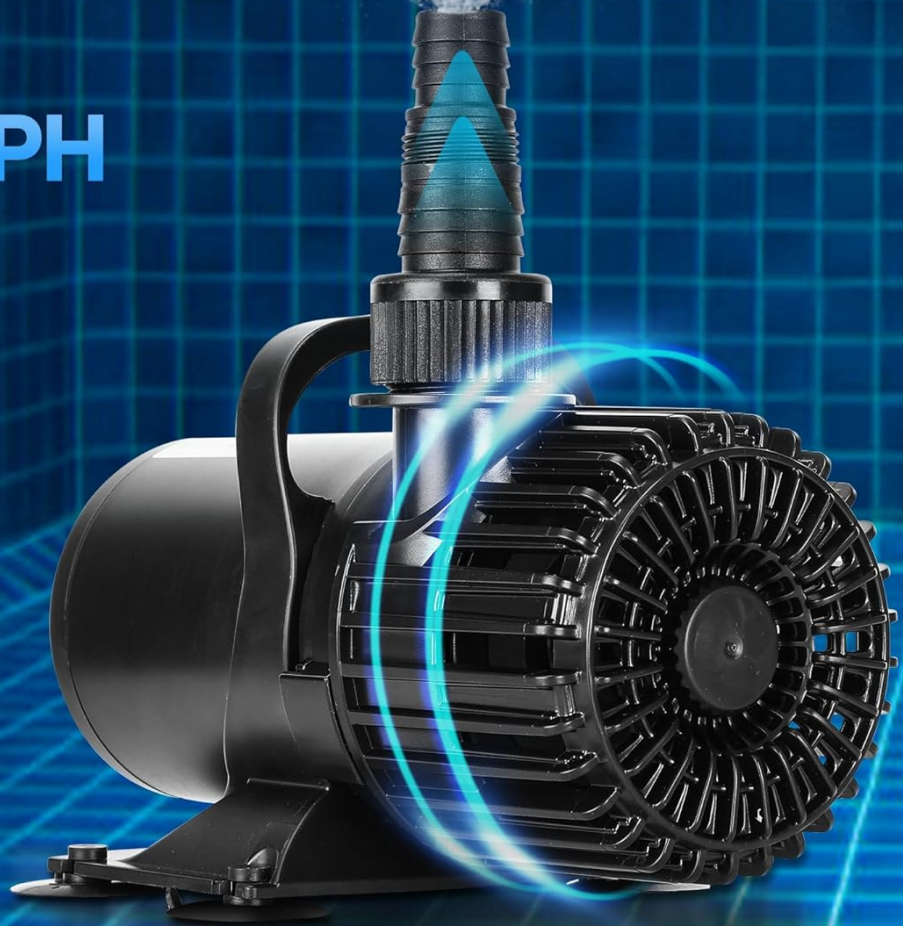


Image: The pump emphasizing its high-performance circulation with 5300 GPH max flow rate, 24 FT max lift height, and 310W motor.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your VIVOHOME water pump.

Cleaning

1. Always unplug the pump from the power source before attempting any cleaning or maintenance.
2. Remove the protective mesh shield. This shield is designed to keep out large debris and reduce maintenance needs.
3. Clean any accumulated debris from the mesh shield and the pump's intake area.

- Inspect the impeller for any blockages or wear. The ceramic motor shaft and silicon carbide drive ring are designed for durability, but regular checks are recommended.
- Rinse all components with clean water. Do not use harsh chemicals or abrasive materials.
- Reassemble the pump, ensuring all parts are securely in place.

Video: Product Features and Maintenance

Video: This official VIVOHOME video highlights key features of the pump, including its durable construction, adjustable flow, quiet operation, and user-friendly design, with visual cues for maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not operate	No power supply; Impeller jammed; Motor failure	Check power connection and outlet; Unplug and clean impeller/shaft; Contact support if motor failure is suspected.
Low flow rate or no water output	Clogged intake/mesh shield; Kinked or blocked tubing; Impeller worn or damaged	Clean mesh shield and intake; Clear tubing obstruction; Inspect and replace impeller if necessary.
Pump is noisy	Debris in impeller; Pump not stable; Air in system	Clean impeller; Ensure pump is securely placed on suction cups; Submerge pump fully to remove air.
Fish dying in pond/aquarium	Insufficient oxygenation; Water quality issues	Ensure pump is providing adequate circulation and aeration; Check water parameters and perform necessary water changes.

SPECIFICATIONS

Feature	Specification
Brand	VIVOHOME
Model Number	VH446
Size	5300GPH-310W
Power	310 Watts
Voltage	120 Volts
Maximum Flow Rate	5300 GPH (19000 Liters Per Hour)
Maximum Lifting Height	24 Feet (7.3 Meters)

Feature	Specification
Product Dimensions	9.1"L x 6.3"W x 10.4"H
Item Weight	9.9 Pounds
Material	PC+ABS
Sound Level	30-40 dB
Power Cord Length	20.3 Feet (6.2 Meters)

Specifications

Power: **310 W** Power Cord Length: **20 ft / 6.2 M** Voltage: **AC 120V / 60 HZ**

H-max: **24 ft / 7.3 M** Max Flow: **5300 GPH** Package Size: **13.2" x 8.7" x 9.3"**

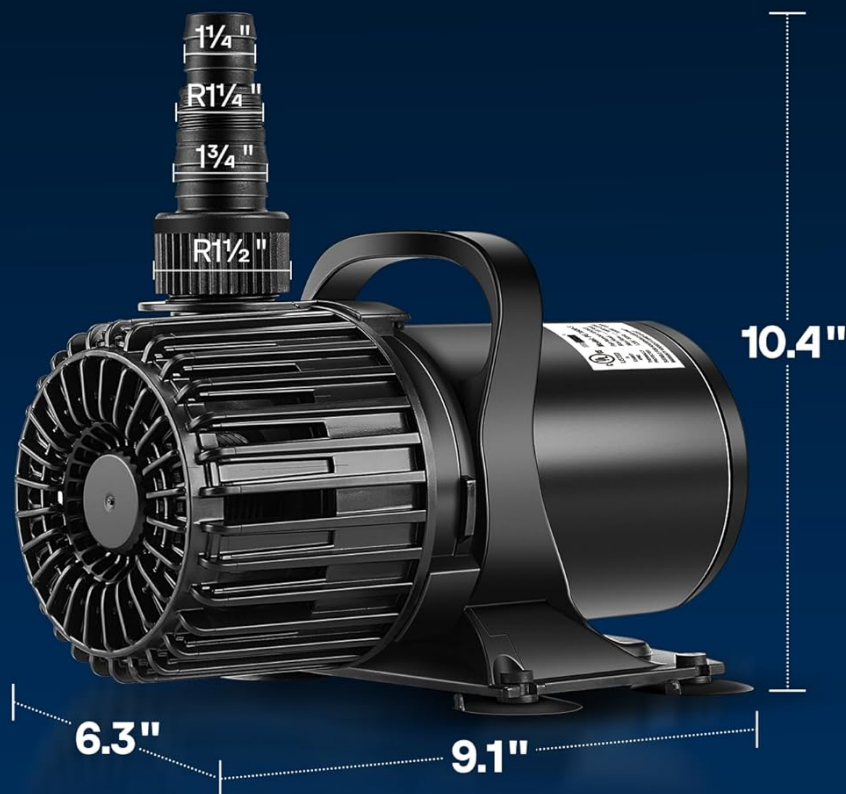


Image: Detailed specifications chart for the VIVOHOME pump, including power, flow rate, and dimensions.

WARRANTY AND SUPPORT

VIVOHOME products are backed by a manufacturer's warranty. For specific warranty details, claims, or technical support, please refer to the warranty card included in your package or visit the official VIVOHOME website. Keep your purchase receipt as proof of purchase.