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› VIVOSUN 4500 GPH Submersible Water Pump Instruction Manual

## VIVOSUN B07FFXXRCT

# VIVOSUN 4500 GPH Submersible Water Pump Instruction Manual

Model: B07FFXXRCT | Brand: VIVOSUN

## INTRODUCTION

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This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your VIVOSUN 4500 GPH Submersible Water Pump. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: VIVOSUN 4500 GPH Submersible Water Pump. This image shows the compact design of the pump with its integrated handle and outlet.

## SAFETY INSTRUCTIONS

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- Always disconnect the pump from the power supply before handling, cleaning, or performing any maintenance.
- Ensure the power cord and plug are in good condition. Do not operate the pump with a damaged cord or plug.
- The pump is designed for water use only. Do not use it for flammable liquids or other corrosive substances.
- Ensure the electrical outlet is a grounded GFCI (Ground Fault Circuit Interrupter) outlet for safety.
- Do not lift the pump by its power cord. Use the integrated handle.
- Operate the pump only when fully submerged if used in submersible mode, or ensure proper water flow if used inline.
- Keep children and pets away from the pump and water feature during operation.

## PRODUCT FEATURES

- **Solid Construction & Overload Protection:** The shaft and drive ring piece are made from silicon carbide material, reducing attrition and increasing service life. It is totally waterproof (IPX8) and provides overload protection.
- **Energy Saving with Low Noise:** Ultra-quiet operation design (30-40db). Less power (220W) consumption with high output (4500GPH/17000LPH) compared to other pumps. Suitable for 720 gallon ponds.
- **High Lift with Detachable Filter:** Lift height can be up to 19FT/5.8M. This pump can accommodate various water features with its portable handle and detachable filter.
- **Easy Installation:** Adjustable outlet direction and 20.3FT power cord to meet different requirements. Flexible Tube Size: 1 1/4" or 1 1/2" internal diameter. It can be worked with filters (filter system) together.
- **Multiple Usage:** VIVOSUN Fixed Flow Rate pump can be used as submersible or inline. Multifunctional design for diving or land use. Ideal for a variety of applications in ponds, fish tanks, fountains, waterfalls, etc.

# Water Pump Features



Convenient to Use



Low Noise Design



Quality & Security



Premium Material

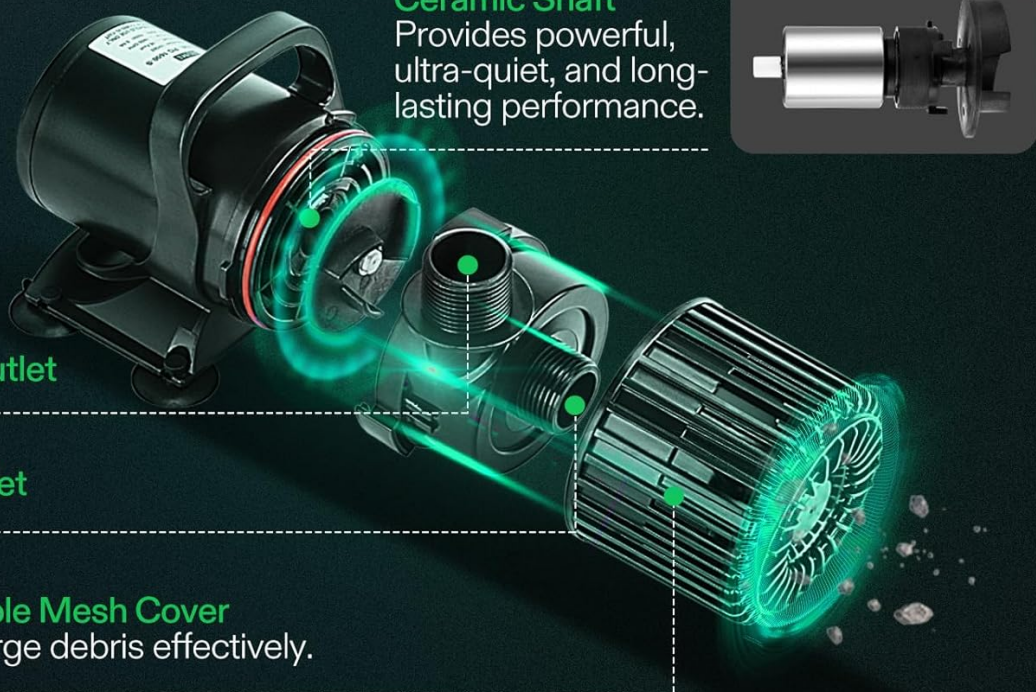


Figure 2: Internal components and features. This diagram illustrates the ceramic shaft, water inlet, water outlet, and removable mesh cover, highlighting the pump's robust design.

## 1. Unpacking

Carefully remove all components from the packaging. Inspect the pump and accessories for any signs of damage. Retain packaging for future storage or transport.

## 2. Hose Connection

Attach the appropriate hose adapter to the pump's outlet. The pump supports 1 1/4" or 1 1/2" internal diameter flexible tubes. Trim the nozzle to the perfect size to fit your specific hose. Ensure a secure, leak-free connection.



Figure 3: Hose Adapter Sizes. This image demonstrates how to trim the multi-size hose adapter to fit 1 1/4" or 1 1/2" hoses for optimal connection.

## 3. Pump Placement

The VIVOSUN pump can be used either fully submerged or as an inline (land) pump. For submersible use, place the pump on a stable, flat surface at the bottom of your pond or tank. For inline use, ensure the pump is placed in a dry, protected area and that water can flow freely into and out of the pump.

# Amphibious Pond Pump

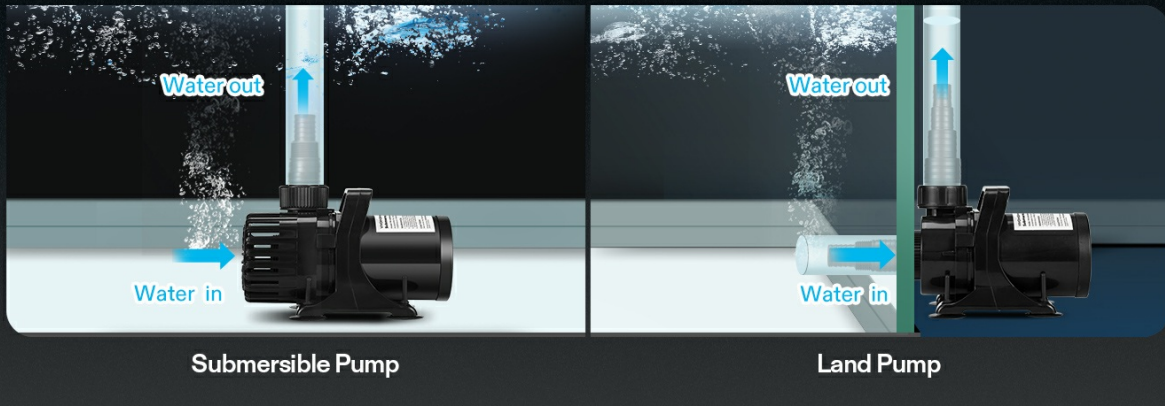
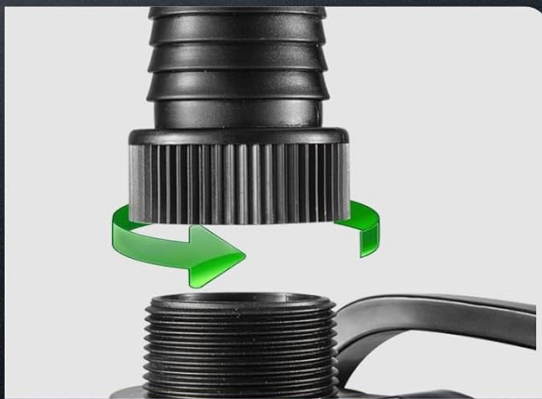


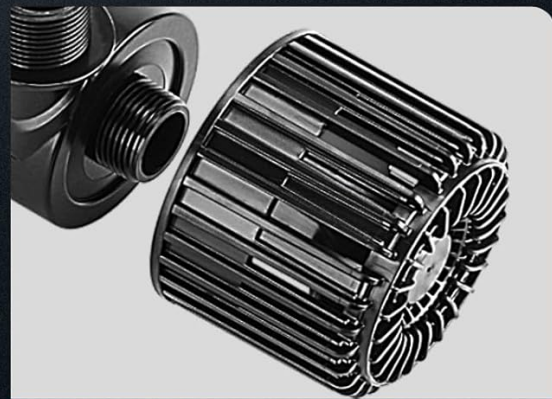
Figure 4: Amphibious Pond Pump Setup. This illustration shows the pump operating both as a submersible unit within water and as an inline unit outside the water, demonstrating its versatility.

The pump features four suction cups on its base for secure attachment to smooth surfaces, preventing movement during operation.

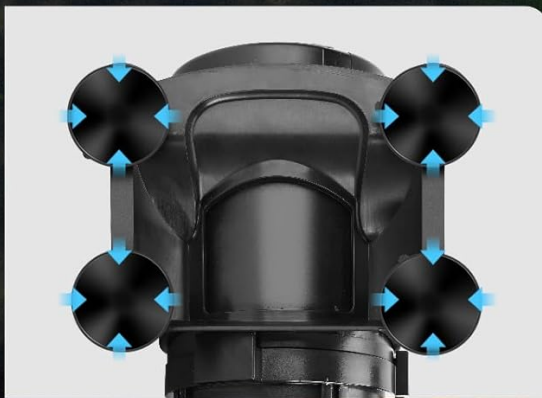
## Crafted Details



Adjustable Nozzles



Detachable Mesh Cover



Secure Suction Cups



Easy-Grip Handle

Figure 5: Crafted Details. This image highlights the secure suction cups for stable placement, the 20.3 ft power cord for flexible positioning, and the easy-grip handle for portability.

#### 4. Power Connection

Connect the 20.3 ft power cord to a grounded GFCI outlet. Ensure the power cord is routed safely to avoid tripping hazards and is not pinched or damaged.

### OPERATION

#### 1. Initial Startup

Once the pump is properly installed and connected, plug it into the power outlet. The pump will begin to operate immediately. Monitor the water flow to ensure it is functioning as expected.

#### 2. Adjusting Outlet Direction

The pump features an adjustable outlet direction, allowing you to direct the water flow as needed for your specific application (e.g., waterfall, fountain). Gently rotate the outlet nozzle to achieve the desired angle.

# Five Adjustable Outlet Direction

**UL LISTED**

90°

45°

135°

180°

0°

10 dB

30-40 dB

**30-40 dB**

50-70 dB

80-100 dB

**4500GPH / 17000LPH**  
High Flow

**Low Noise**

Figure 6: Five Adjustable Outlet Directions. This graphic illustrates how the pump's outlet can be rotated to 0°, 45°, 90°, 135°, and 180° for versatile water direction.

## MAINTENANCE

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

### 1. Cleaning the Pump

The pump features a detachable mesh cover and impeller for easy cleaning. Disconnect the pump from power before cleaning. Remove the mesh cover and impeller assembly. Clean any debris, algae, or mineral buildup from the impeller, housing, and mesh cover using a soft brush and clean water. Reassemble all parts securely after cleaning.



Figure 7: Inlet Mesh Cover and Detachable Cover. This image highlights the removable inlet mesh cover, designed to keep large debris out, and the detachable main cover for easy access and cleaning to prevent clogging.

### 2. Winterization (for outdoor use)

If using the pump outdoors in freezing conditions, remove the pump from the water before temperatures drop below freezing. Clean the pump thoroughly and store it in a dry, frost-free location until spring.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power; Impeller jammed; Overload protection activated.	Check power connection and GFCI. Disconnect power, clean impeller and housing. Allow pump to cool down if overload protection tripped.
Low water flow	Clogged intake/impeller; Kinked hose; Insufficient water level (submersible).	Clean intake screen and impeller. Straighten hose. Ensure adequate water level.
Pump is noisy	Debris in impeller; Pump not stable; Air in pump (inline use).	Disconnect power and clean impeller. Secure pump with suction cups. Prime pump if used inline to remove air.

## SPECIFICATIONS

Attribute	Value
Brand	VIVOSUN
Model Number	B07FFXXRCT
Power (W)	220W
Maximum Flow Rate	4500 GPH / 17000 LPH
Maximum Lift Height	19 FT / 5.8 M
Voltage	120 Volts
Amperage	2.3 A
Power Cord Length	20.3 FT / 6.2 M
Product Dimensions (L x W x H)	9.3"L x 5.8"W x 11.5"H
Item Weight	8.8 Pounds
Material	Plastic
Waterproof Rating	IPX8

# Specifications

AC: 120V / 60 Hz

Amp: 2.3 A

Power: 220 W

Max Height: 19 ft / 5.8 m

Power Cord: 20.3 ft / 6.2 m

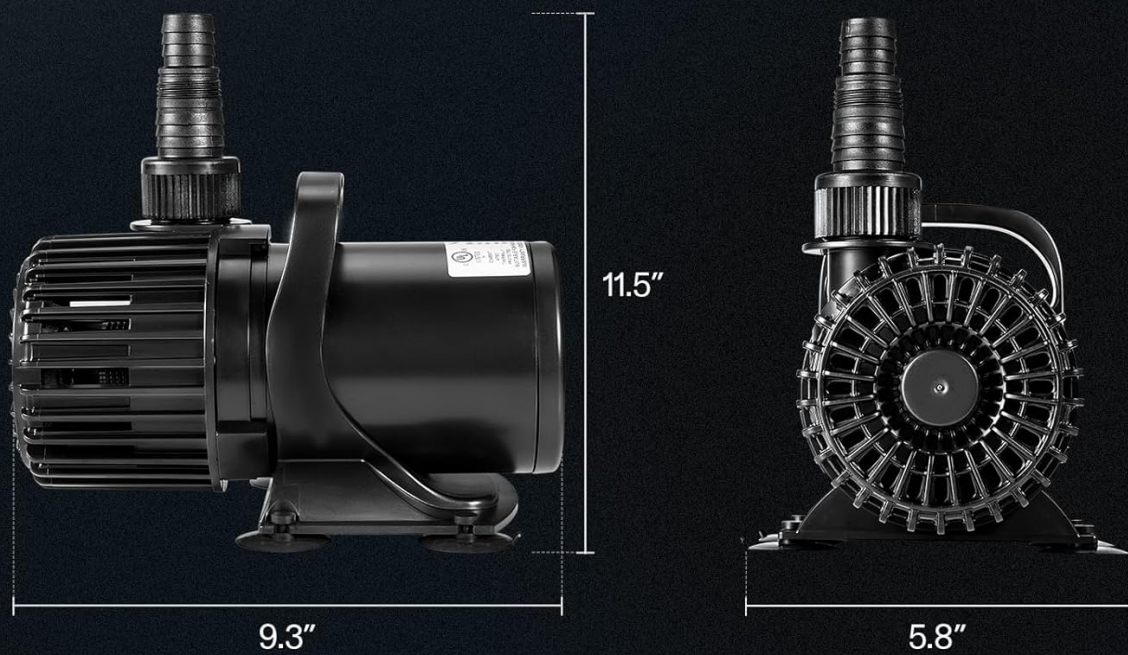


Figure 8: Product Specifications. This diagram visually summarizes key specifications such as power, amperage, max height, and physical dimensions of the pump.

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the manufacturer's official website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

**Manufacturer:** VIVOSUN

**Website:** [www.vivosun.com](http://www.vivosun.com) (Please verify the official website for the most accurate information.)