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VONROC SP508AC

VONROC 400W Submersible Pump User Manual

Model: SP508AC

1. Introduction

This manual provides essential information for the safe and efficient operation of your VONROC 400W Submersible Pump, Model SP508AC. Please read these instructions carefully before using the product and keep them for future reference. This pump is designed for pumping clean water from various locations such as basements, swimming pools, and tanks.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

2.1 General Safety

- Ensure the power supply matches the pump's specifications (230 VAC/50Hz).
- Never operate the pump with a damaged power cord or plug.
- Do not use the pump for flammable, explosive, or corrosive liquids.
- Keep children and unauthorized persons away from the operating area.
- Always disconnect the pump from the power supply before performing any maintenance or cleaning.
- The pump is designed for clean water only, with dirt particles up to 1 mm.

2.2 Electrical Safety

- The pump is rated IPX8 for water immersion.
- Ensure the electrical outlet is protected by a Residual Current Device (RCD) with a tripping current not exceeding 30 mA.
- Do not pull the pump by its power cable.

3. Product Features

The VONROC 400W Submersible Pump offers powerful and efficient water removal with intelligent control.

- **Powerful and Reliable:** Ideal for various pumping tasks, featuring flat suction capability that removes water down to 1 mm, leaving surfaces almost dry. Suitable for basements, underground areas, swimming pools, garages, and tanks.
- **Smart Sensor Switch:** Equipped with a sensor switch with two contact points, allowing the pump to automatically turn on and off at desired water levels. Offers 5 switch positions, enabling 4 different on/off levels and a continuous mode.
- **Efficiency and Precision:** The sensor switch provides a small 30 mm difference between activation and deactivation heights, which is significantly less than traditional float switches, making it ideal for confined spaces.
- **High Pumping Capacity:** This pump can handle up to 6000 liters of clean water per hour and dirt particles up to 1 mm. It can operate in water depths up to 7 meters, with a maximum discharge height of 7 meters.
- **Practical and Safe Design:** Includes a built-in non-return valve to prevent water backflow when the pump is off, avoiding continuous on/off cycling. Also features integrated thermal motor protection.



Figure 1: Technical overview of the VONROC 400W Submersible Pump, highlighting its components and operational specifications.

4. Setup

Follow these steps to prepare your submersible pump for operation.

4.1 Connecting the Discharge Hose

1. Attach a suitable discharge hose to the pump's outlet. The pump is equipped with a multi-diameter connector for various hose sizes.
2. Secure the hose connection with a hose clamp to prevent leaks during operation.



Figure 2: Illustration of the pump's easy installation and versatile multi-diameter hose connection.

4.2 Adjusting the Sensor Switch

The sensor switch controls the automatic on/off function based on water levels. The cable length of the sensor switch can be adjusted to set the desired water levels for activation and deactivation.

- The pump features 5 switch positions for the sensor, allowing for 4 different on/off levels and a continuous operation mode.
- For automatic operation, ensure the sensor switch is free to move and not obstructed.

4.3 Power Connection

Plug the pump's power cable (10m length) into a grounded electrical outlet protected by an RCD.

5. Operating Instructions

The VONROC submersible pump is designed for ease of use in various clean water applications.

5.1 Automatic Operation

1. Place the pump in the water, ensuring it is fully submerged. The pump requires a minimum water level of 5 cm to prime.
2. Adjust the sensor switch cable to the desired on/off levels. The pump will automatically start when the water reaches the set 'on' level and stop when it drops to the 'off' level (minimum residual water 1 mm).
3. The small 30 mm difference between activation and deactivation heights ensures efficient operation, especially in tight spaces.

5.2 Continuous Operation

For continuous pumping, set the sensor switch to the continuous mode. In this mode, the pump will operate as long as it

is powered and submerged, regardless of water level fluctuations (as long as the water level is above the minimum priming level).

5.3 After Use

If the pump is used for drainage or emptying activities, disconnect it from the power supply once the water level reaches the minimum residual level of 1 mm.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your pump.

6.1 Cleaning

- Always disconnect the pump from the power supply before cleaning.
- Rinse the pump with clean water after each use, especially if pumping water with fine particles.
- Check the suction inlet for any debris or blockages and remove them carefully.

6.2 Storage

When not in use for extended periods, especially during winter:

- Clean the pump thoroughly.
- Store the pump in a dry, frost-free location.
- Ensure all water is drained from the pump to prevent freezing damage.

7. Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Pump does not start	No power supply; Sensor switch not activated; Motor thermal protection activated.	Check power connection and RCD; Adjust sensor switch position; Allow motor to cool down.
Low pumping capacity	Hose kinked or blocked; Suction inlet blocked; Insufficient water level.	Check and clear hose/inlet; Ensure adequate water level for priming.
Pump runs continuously in automatic mode	Sensor switch stuck or incorrectly positioned.	Check sensor switch for free movement and correct adjustment.

8. Specifications

Detailed technical specifications for the VONROC 400W Submersible Pump (Model SP508AC).

Specification	Value
Brand	VONROC

Specification	Value
Model Number	SP508AC
Power	400W
Voltage	230 VAC/50Hz
Maximum Pressure	0.7 bar
Maximum Residual Water Height	1 mm
Protection Class	IPX8
Cable Length	10 m
Weight	3.7 kg
Maximum Flow Rate	6000 L/h (100 Liters/minute)
Maximum Lifting Height	7 Meters
Material	Stainless steel, Plastic
Product Dimensions (L x W x H)	60L x 60l x 85H cm



Figure 3: The VONROC 400W Submersible Pump, showcasing its compact design and essential components.

9. Warranty and Support

VONROC products are manufactured to high-quality standards. In the unlikely event of a defect, please refer to your purchase documentation for warranty information. For technical support or service inquiries, please contact your retailer or visit the official VONROC website. Keep your proof of purchase for any warranty claims.

For more information, visit the VONROC Store on Amazon.

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