Mayoki SMP-DCB20

Mayoki Cordless Submersible Sump Pump User Manual

Model: SMP-DCB20

1. Introduction

Thank you for purchasing the Mayoki Cordless Submersible Sump Pump, Model SMP-DCB20. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your pump. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This pump is designed for water transfer only. Do not use with flammable liquids or in explosive atmospheres.

- **Battery Compatibility:** This pump is compatible with Dewalt 20V batteries (battery not included). Ensure you use genuine or compatible batteries and chargers.
- **Electrical Safety:** Keep the battery and connections dry. Do not operate the pump if the battery enclosure or power cord is damaged.
- **Water Safety:** Ensure the pump is fully submerged in water during operation to prevent overheating. Do not run dry.
- **Personal Safety:** Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling the pump or connecting hoses.
- **Children and Pets:** Keep children and pets away from the operating area.

3. Package Contents

Verify that all items are present upon unpacking:

- Mayoki Cordless Submersible Sump Pump (SMP-DCB20)
- Water-Resistant Battery Enclosure with 15.4ft Power Cord
- 3/4" NH Outlet Adapter
- User Manual

Note: Dewalt 20V battery and charger are not included.

4. Product Overview

The Mayoki SMP-DCB20 is a portable, cordless submersible pump designed for efficient water transfer in various applications such as draining pools, basements, garden ponds, and flooded areas. It features a brushless motor, three flow settings, and automatic water detection.

Figure 4.1: Main components of the Mayoki Cordless Submersible Sump Pump, including the pump unit and the separate battery enclosure connected by a power cord.

Figure 4.2: Detailed diagram highlighting key features: integrated strainer, 3/4" NH outlet, water-resistant battery enclosure, power switch, and 3-mode flow setting switch with indicator.

5. Setup

1. **Install Battery:** Open the water-resistant battery enclosure. Insert a charged Dewalt 20V battery into the designated slot. Close the enclosure securely to maintain its IPX4 rating.
2. **Connect Discharge Hose:** Attach a standard 3/4" garden hose to the pump's 3/4" NH outlet. Ensure the connection is tight to prevent leaks. Do not overtighten the elbow fitting if used, as it may break.
3. **Position Pump:** Place the pump in the area to be drained, ensuring it is fully submerged in water. The integrated strainer at the base will filter debris.
4. **Route Power Cord:** Position the battery enclosure in a dry, accessible location, away from the water source, using the 15.4ft extension cord.

Figure 5.1: The sump pump positioned in water with a discharge hose attached, ready for operation.

6. Operation

1. **Power On:** Press the power button on the battery enclosure to turn on the pump. The indicator lights will illuminate.
2. **Select Flow Mode:** Use the mode selection button to choose one of the three flow settings:
    - **L (Low):** Approximately 792 GPH
    - **M (Medium):** Approximately 1056 GPH
    - **H (High):** Approximately 1320 GPH
3. **Automatic Water Detection & Shutdown:** The pump features a built-in water source detection. If no water is detected for approximately 10 seconds, the pump will automatically stop to prevent dry running and extend its lifespan.
4. **Restarting the Pump:** If the pump shuts down due to lack of water, it will not automatically restart when water levels rise again. You must manually press the power button to restart the pump.

5. **Power Off:** Press the power button again to turn off the pump when draining is complete or if you need to pause operation.

Figure 6.1: The control panel on the battery enclosure, illustrating the power button and the 3-mode flow setting switch.

Figure 6.2: The pump in operation, demonstrating its ability to discharge water and its auto-stop function when water is no longer detected.

7. Maintenance

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

- **Clean Strainer:** Periodically inspect and clean the integrated strainer at the bottom of the pump to remove any accumulated debris. This prevents clogging and protects the pump motor.
- **Rinse Pump:** After use, especially in dirty water, rinse the pump with clean water to remove residues.
- **Battery Care:** Remove the battery from the enclosure when not in use for extended periods. Store batteries in a cool, dry place.
- **Storage:** Store the pump in a dry, frost-free location. Ensure all water is drained from the pump and hose before storage.

8. Troubleshooting

If you encounter issues, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump does not start	Battery not charged or improperly installed; Power button not pressed; Pump is dry.	Ensure battery is charged and correctly inserted. Press the power button. Ensure pump is submerged in water.
Low flow rate	Clogged strainer; Kinked or obstructed hose; Low battery charge; Incorrect flow setting.	Clean the integrated strainer. Check hose for obstructions. Recharge battery. Select a higher flow mode (M or H).
Pump stops unexpectedly	Automatic water detection shutdown (no water); Overload protection activated; Low battery.	Verify water level. If water is present, check for obstructions. Recharge battery. Manually restart the pump if it stopped due to low water.
Water leakage from connections	Loose hose connection; Damaged hose or adapter.	Tighten hose connections. Inspect hose and adapter for damage and replace if necessary.

9. Specifications

Technical specifications for the Mayoki Cordless Submersible Sump Pump SMP-DCB20:

Feature	Specification
Brand	Mayoki
Model Number	SMP-DCB20
Power Source	Battery Powered (Compatible with Dewalt 20V)
Voltage	20 Volts (DC)
Wattage	130 watts
Maximum Flow Rate	1320 GPH (22 Gallons Per Minute)
Maximum Lifting Height	26 Feet
Product Dimensions	9"L x 9"W x 7.9"H
Item Weight	3.74 pounds (1.7 Kilograms)
Material	Plastic
Outlet Size	3/4" NH
Cord Length (Pump to Battery Enclosure)	15.4 Feet

Figure 9.1: Visual representation of the pump and battery enclosure dimensions and key specifications.

10. Warranty and Support

The Mayoki Cordless Submersible Sump Pump SMP-DCB20 comes with a 5-year warranty, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical support, warranty service, or questions regarding your product, please contact Mayoki customer service through the retailer's platform or the official Mayoki website. Provide your model number (SMP-DCB20) and purchase date when contacting support.