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> Mellif Brushless Water Transfer Pump User Manual

Mellif MFBRWP001

Mellif Brushless Water Transfer Pump User Manual

Model: MFBRWP001 | Brand: Mellif

1. INTRODUCTION AND PRODUCT OVERVIEW

The Mellif Brushless Water Transfer Pump is a cordless, portable, and self-priming utility pump designed for efficient water transfer in various applications such as draining pools, watering gardens, or transferring liquids. It features a powerful brushless motor, adjustable flow settings, and a built-in LED light for enhanced visibility.



Figure 1: Mellif Brushless Water Transfer Pump and its components including batteries, charger, and suction strainer.

2. SAFETY INFORMATION

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

- Ensure the pump is used only with compatible Mellif 20V batteries and charger.
- Do not immerse the pump in water. It is designed for water transfer, not submersion.
- Keep hands, feet, and clothing away from moving parts.
- Always disconnect the battery before performing any maintenance or cleaning.
- Do not pump flammable or corrosive liquids. This pump is intended for water transfer only.
- Operate the pump in a well-ventilated area.
- Store the pump and batteries in a dry, secure location away from extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present upon unboxing:

- 1 x Mellif Brushless Water Pump
- 2 x 20V 2.0Ah Battery
- 1 x 20V 2.0A Charger
- 1 x Suction Strainer
- 1 Pair of Gloves
- 1 x User Manual (this document)



Figure 2: Included components: pump, charger, two 2.0Ah batteries, and intake filter.

4. SPECIFICATIONS

Specification	Value
Brand	Mellif
Model Number	MFBRWP001

Voltage	20 Volts
Power	180W
Maximum Flow Rate	500 GPH (Gallons Per Hour)
Adjustable Flow Settings	300 GPH, 400 GPH, 500 GPH
Maximum Lifting Height (Head Height)	60 Feet
Maximum Suction Height	6 Feet
Discharge Outlet Size	3/4" NH (National Hose)
Product Dimensions (L x W x H)	12.6" x 5.9" x 11"
Item Weight	8.91 pounds

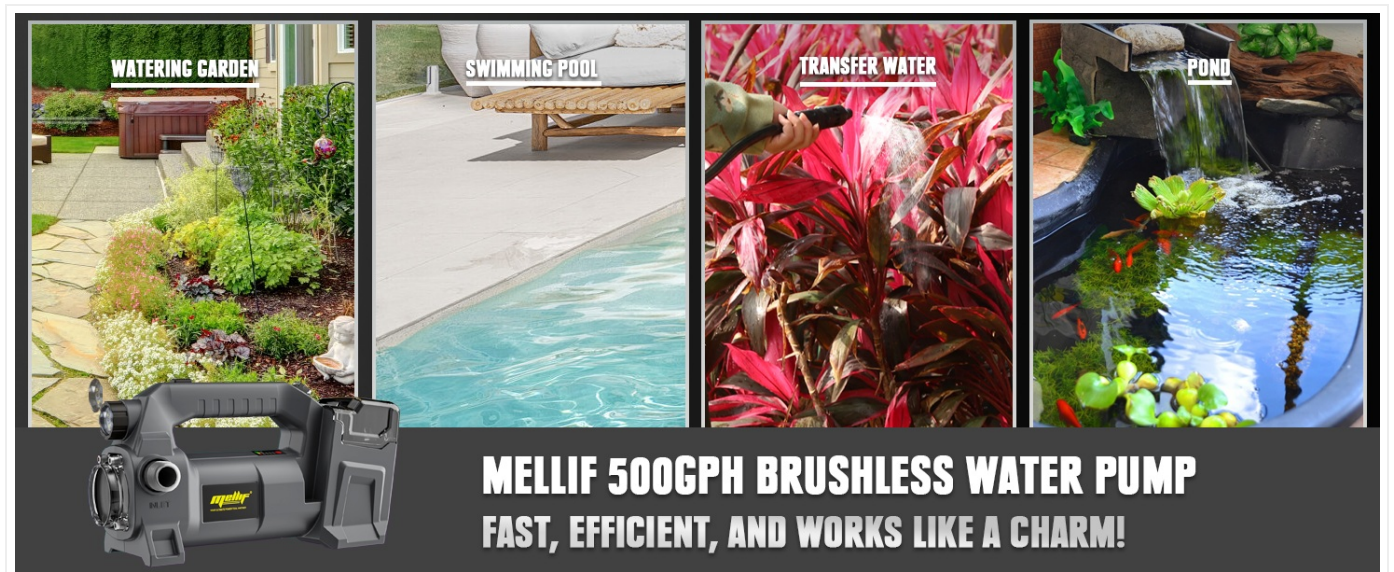


Figure 3: Detailed product specifications.

5. SETUP

5.1 Battery Installation

1. Open the battery compartment cover on the pump.
2. Insert a charged Mellif 20V battery into the compartment, ensuring it clicks securely into place.
3. Close the battery compartment cover.

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Video 1: Demonstrates the installation of the battery into the Mellif water pump and initial power-on sequence.

5.2 Hose Connection

1. Connect a standard 3/4" garden hose (not included) to the pump's inlet.
2. Connect another standard 3/4" garden hose (not included) to the pump's outlet.
3. Ensure all connections are tight to prevent leaks.



Figure 4: The pump features a 3/4" NH fitting for standard garden hoses.

5.3 Suction Strainer Attachment

Attach the included suction strainer to the end of the inlet hose. This strainer helps prevent debris from entering the pump and allows for water removal down to 1/8 inch from the surface.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off and Self-Priming

1. Once the battery is installed and hoses are connected, place the suction end of the inlet hose into the water source.
2. Press the power button to turn on the pump. The pump is self-priming, meaning it will automatically draw water without manual intervention.
3. To turn off the pump, press the power button again.

SELF-PRIMING WATER PUMP



A plug and play sort of experience

Figure 5: The self-priming feature simplifies operation, making it a plug-and-play experience.

6.2 Adjustable Flow Settings

The pump offers three flow settings to adapt to different tasks:

- **Mode I:** 300 GPH (Gallons Per Hour)
- **Mode II:** 400 GPH
- **Mode III:** 500 GPH

Use the mode selection button on the pump to cycle through these settings. The LED indicators will show the current flow mode.

3-SPEED FLOW RATE SETTINGS



Figure 6: Select from three flow rate settings based on your needs.

6.3 Built-in LED Light Operation

The pump is equipped with an integrated LED light for improved visibility in low-light conditions. It has two brightness levels:

- **LED I:** 150 lm
- **LED II:** 250 lm

Activate and cycle through the LED brightness levels using the dedicated light button.

LED I: 150lm



TWO BRIGHTNESS LED LIGHT
Designed for both day and night

LED II: 250lm



Figure 7: The built-in LED light provides illumination for day or night use.

6.4 Typical Applications

The Mellif Brushless Water Transfer Pump is versatile and suitable for various tasks:

- Draining swimming pools or hot tubs.
- Watering gardens or lawns from alternative water sources.
- Transferring water from ponds or rain barrels.
- Removing standing water from flooded areas.



Figure 8: Versatile applications of the Mellif water pump.

6.5 Operating Time

The approximate operating time varies based on the battery capacity and selected flow mode:

20V Battery Capacity	2.0 Ah Battery	4.0 Ah Battery	5.0 Ah Battery
MODE-I: 300 GPH / 120 W	18 min / 90 gal	36 min / 180 gal	45 min / 225 gal
MODE-II: 400 GPH / 140 W	15 min / 100 gal	30 min / 205 gal	38 min / 257 gal
MODE-III: 500 GPH / 180 W	12 min / 100 gal	24 min / 200 gal	30 min / 250 gal

Table 1: Approximate operating times and gallons transferred based on battery capacity and flow mode.

OPERATING TIME			
20V Battery Capacity	2.0 Ah Battery	4.0 Ah Battery	5.0 Ah Battery
MODE-I 300 GPH/ 120 W	18 min/ 90 gal	36 min/ 180 gal	45 min/ 225 gal
MODE-II 400 GPH/ 140 W	15 min/ 100 gal	30 min/ 205 gal	38 min/ 257 gal
MODE-III 500 GPH/ 180 W	12 min/ 100 gal	24 min/ 200 gal	30 min/ 250 gal

Figure 9: Visual representation of the operating time table.

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Video 2: Demonstrates the Mellif Brushless Water Pump in operation, showcasing its water transfer capabilities.

7. MAINTENANCE

7.1 Cleaning

- After each use, especially when pumping dirty water, flush the pump with clean water to remove any residue.
- Wipe down the exterior of the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Regularly inspect the suction strainer for clogs and clean as necessary.

7.2 Storage

- Ensure the pump is completely dry before storing.
- Store the pump and batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, remove the battery from the pump.

8. TROUBLESHOOTING

If you encounter issues with your Mellif Brushless Water Transfer Pump, consider the following common solutions:

Problem	Possible Cause	Solution
Pump does not turn on.	Battery not installed correctly or discharged.	Ensure battery is fully charged and properly seated.
Low or no water flow.	Clogged suction strainer or kinked hose. Air in the system.	Check and clean the suction strainer. Straighten any kinks in the hose. Ensure the inlet hose is fully submerged.
Pump runs but no water is discharged.	Inlet hose not submerged or air leak in the system.	Ensure the inlet hose is fully submerged in water. Check all hose connections for tightness. Allow time for self-priming.
Reduced operating time.	Battery degradation or operating at highest flow setting.	Ensure battery is fully charged. Consider using a higher capacity battery (e.g., 4.0Ah or 5.0Ah) for longer runtimes.

If the problem persists after attempting these solutions, please contact Mellif customer support.

9. WARRANTY AND CUSTOMER SUPPORT

All Mellif products are guaranteed with a **5-year warranty**. For any issues or inquiries regarding your Mellif Brushless Water Transfer Pump, our customer support team is available **7 days a week, 24 hours a day**.

Please refer to your purchase documentation or the Mellif official website for contact information.

