

MEDAS EL-SUB 8500 easy

MEDAS Ultra Low Suction Sump Pump User Manual

Model: EL-SUB 8500 easy

1. IMPORTANT SAFETY INFORMATION

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

- Always disconnect the pump from the power source before performing any maintenance or cleaning.
- Do not operate the pump with a damaged cord or plug.
- Ensure the power outlet is properly grounded and protected by a Ground Fault Circuit Interrupter (GFCI).
- Do not use this pump for flammable or corrosive liquids.
- Keep children and pets away from the pump during operation.
- Do not run the pump dry. Ensure it is fully submerged in water during operation to prevent overheating.
- The pump is designed for water only.
- Maximum water temperature for operation is 95°F (35°C).

2. PRODUCT OVERVIEW

The MEDAS Ultra Low Suction Sump Pump is a powerful and versatile submersible utility pump designed for efficient water removal from various areas. Its key features include a high flow rate and an impressive low suction capability, allowing it to drain water down to 0.04 inches (1mm) from the surface.



Figure 2.1: Overview of the MEDAS Ultra Low Suction Sump Pump, showcasing its compact design and key specifications like 1/3 HP and 2450 GPH flow rate.

Key Features:

- **Powerful Water Flow:** This 1/3HP high-flow utility pump moves up to 2450 gallons of water per hour, ideal for large volumes of water in pools or basements.
- **Low Suction Capability:** Capable of drawing water down to just 1/25" (1mm), ensuring near-complete water removal.
- **Versatile and Multi-purpose Design:** Suitable for basements, crawl spaces, window wells, tubs, buckets, stock tanks, boats, and standing water.
- **Durable and Oil-Free Motor:** Constructed from tough thermoplastic for durability, with an environmentally friendly oil-free motor.

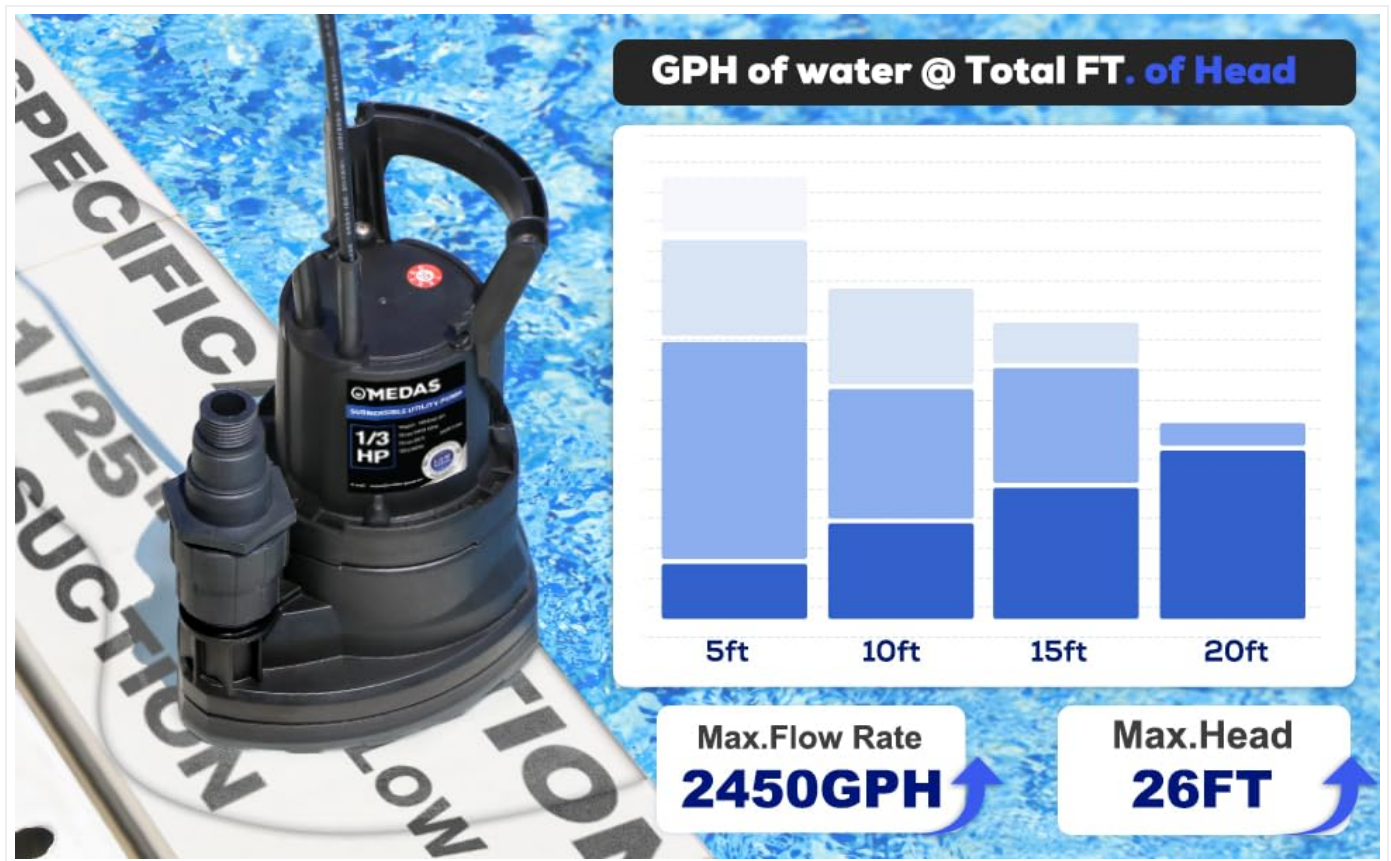


Figure 2.2: Illustration of the pump's patented 1mm low-suction feature, showing how it effectively drains water to a minimal level.

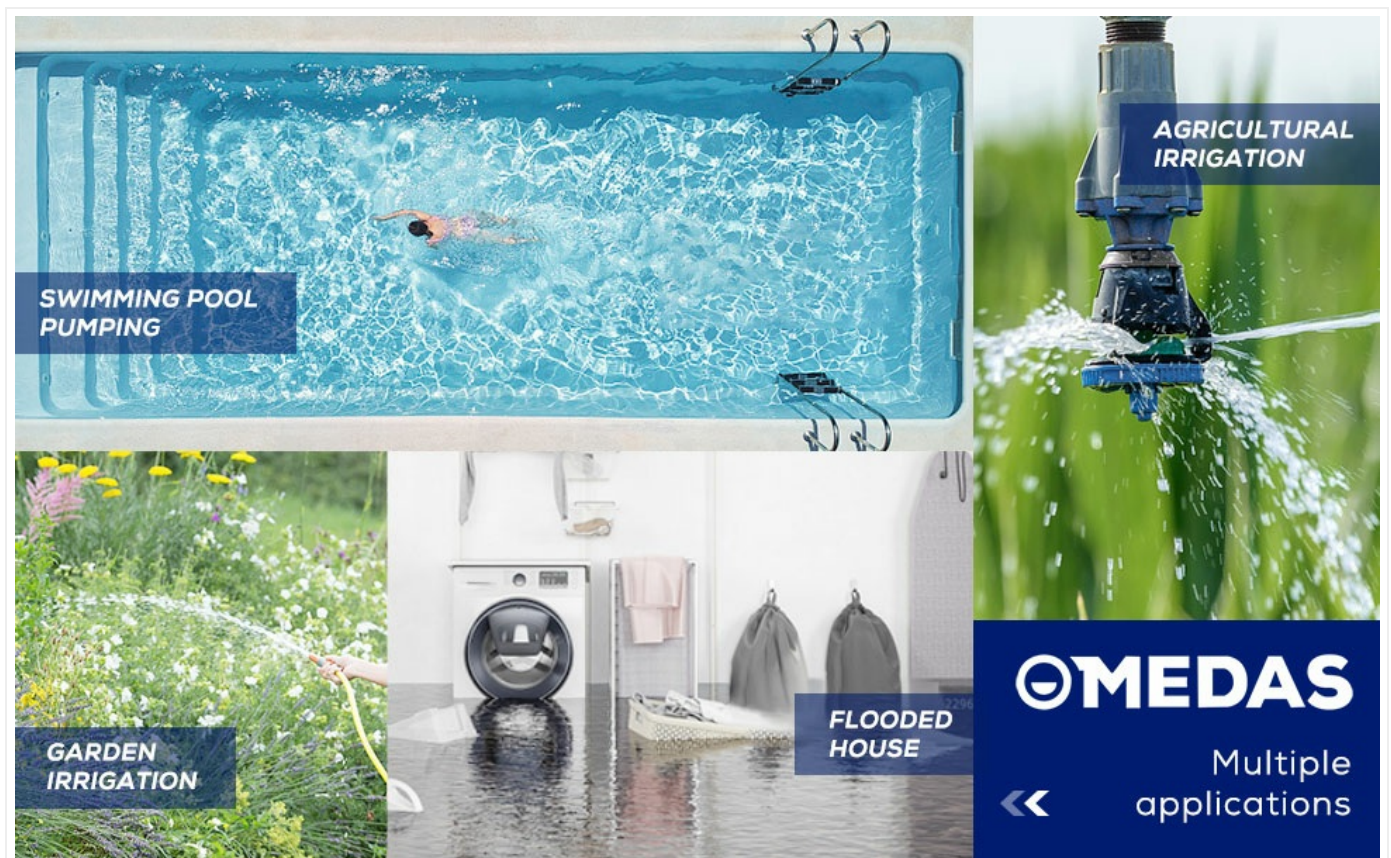


Figure 2.3: Examples of the pump's versatile applications, from draining pools to managing flooded areas and irrigation.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- MEDAS Utility Pump (1/3HP)
- 3/4-inch NPT threaded adapter
- Nylon mesh filter bag
- Check valve (to prevent backflow)
- Multi-hose adapter (compatible with 1-1/2-inch, 1-inch NPT, and 1-inch hoses)



Figure 3.1: Detailed view of the included adapters and check valve, illustrating their components and proper usage.

4. SETUP INSTRUCTIONS

Follow these steps to set up your MEDAS Sump Pump:

1. Choose the Right Adapter:

Select the appropriate hose adapter based on your hose size (3/4-inch NPT, 1-inch, 1-1/2-inch). The multi-hose adapter can be cut

to fit different sizes. For standard garden hoses, use the 3/4-inch NPT threaded adapter.



Figure 4.1: Pump dimensions and connection point for the 3/4" NPT garden hose.

2. Install Check Valve (Optional but Recommended):

If using the multi-size adapter, install the check valve to prevent water from flowing back into the pump. Ensure the arrow mark on the check valve points in the direction of water flow (away from the pump). *Note: Do not put the check valve into the single adapter.*

3. Attach Hose:

Securely attach your discharge hose to the chosen adapter. Ensure all connections are tight to prevent leaks.

4. Position the Pump:

Place the pump in the area to be drained. Ensure the pump is stable and fully submerged in water before connecting to power.

The pump activates when the water level reaches approximately 4/5 inches (20mm).



Figure 4.2: The pump's activation level, demonstrating its ability to start pumping at a low water height of 4/5 inches.

5. Connect to Power:

Plug the 10ft power cord into a grounded 110V/60Hz GFCI-protected outlet. The pump will begin operating automatically once the water level reaches the activation point.

5. OPERATING INSTRUCTIONS

The MEDAS Sump Pump is designed for automatic operation once connected to power and submerged in water.

- Ensure the discharge hose is directed to a suitable drainage area, away from the area being drained.
- The pump will automatically start when the water level reaches approximately 4/5 inches (20mm) and continue to pump until the water level is reduced to 0.04 inches (1mm).
- Monitor the pump during operation to ensure proper function and to prevent it from running dry for extended periods.
- For continuous operation, ensure the pump remains submerged.



Figure 5.1: The pump in action, demonstrating its high flow rate and lift capabilities for effective water removal.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the pump's intake screen and impeller area to remove any debris that may obstruct water flow. Disconnect power before cleaning.
- **Storage:** If storing the pump for an extended period, clean it thoroughly, drain all water, and store it in a dry, frost-free location.
- **Inspection:** Regularly inspect the power cord for any signs of damage. Do not use the pump if the cord is damaged.
- The oil-free motor design requires no lubrication.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not start or operate.	No power; clogged intake; water level too low.	Check power connection and GFCI. Clean intake screen. Ensure water level is above 4/5 inches (20mm).
Pump runs but no water is discharged.	Hose kinked or blocked; airlock; impeller clogged.	Check hose for kinks/blockages. Briefly lift and lower pump to release airlock. Clean impeller area.
Reduced flow rate.	Partial clog; hose too small or too long; excessive lift height.	Clean pump. Use appropriate hose size. Ensure lift height is within specifications.
Pump cycles on and off frequently.	Water level fluctuating; check valve issue.	Ensure stable water level. Check check valve for proper installation and function.

8. SPECIFICATIONS

Attribute	Value
Brand	MEDAS
Model Number	EL-SUB 8500 easy
Power Source	Corded Electric
Horsepower	1/3 HP
Max Flow Rate	2450 GPH (Gallons Per Hour)
Max Lift Height	26 FT
Low Suction Capability	Drains down to 0.04 inches (1mm)
Activation Water Level	Approx. 4/5 inches (20mm)
Voltage	110V
Wattage	250W
Power Cord Length	10 FT
Material	Thermoplastic
Product Dimensions (L x W x H)	7.6" x 5.5" x 10"
Item Weight	8.8 pounds (4 Kilograms)
Max Water Temperature	95°F (35°C)
UPC	779602611081



Figure 8.1: Performance chart detailing the pump's flow rate (GPH) at various lift heights (Total FT. of Head).

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact MEDAS customer service. Refer to your purchase documentation for specific warranty terms and contact details.

You can also visit the official MEDAS store for more information and product updates: [MEDAS Store on Amazon](#).

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question