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VEVOR 4SSM5/8-1

VEVOR Deep Well Submersible Pump User Manual

Model: 4SSM5/8-1

Safety | Overview | Setup | Operation | Maintenance | Troubleshooting | Specifications | Support

1. Safety Instructions

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

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (115V). Always connect the pump to a properly grounded outlet. Disconnect power before any installation, maintenance, or repair.
- **Dry Running:** **DO NOT** operate the pump without water or at low water levels. Dry running can cause severe damage to the motor and void the warranty.
- **Water Quality:** This pump is designed for clean water. Avoid pumping corrosive liquids, flammable liquids, or water containing large abrasive particles.
- **Installation Environment:** Ensure the well casing diameter exceeds the pump diameter by at least 0.39 inches (10 mm) for optimal fit and cooling.
- **Cable Protection:** Protect the power cord from sharp objects, heat, and oil. Do not use the cord to lift the pump.
- **Children and Unauthorized Personnel:** Keep children and unauthorized individuals away from the pump during operation.

2. Product Overview

2.1 Features

- **High Performance:** Delivers a maximum lift of 276 ft (84.12 m) and a flow rate of 31.7 GPM.
- **Integrated Design:** Built-in control box for simplified installation and reduced external wiring.
- **Durable Construction:** Full stainless steel body, connections, and filtration mesh for corrosion resistance and extended service life. IP68 waterproof rating.
- **Powerful Motor:** Equipped with a pure copper wire motor with built-in overheat protection.
- **Efficient Filtration:** Multi-layer stainless steel filtration mesh prevents impeller blockages.
- **Versatile Application:** Suitable for agricultural irrigation, livestock watering, residential water supply, river extraction, and pond maintenance.

2.2 Components

- 1 x VEVOR Deep Well Submersible Pump (Model 4SSM5/8-1)
- 1 x Power Cord (32.81 ft / 10 m)
- 1 x Insulating Tape
- 1 x Standard Tape



Image: VEVOR Deep Well Submersible Pump with its power cord, ready for installation.

3. Setup

3.1 Pre-Installation Checks

- Verify that the well casing diameter is at least 0.39 inches (10 mm) larger than the pump's diameter.
- For new drilled wells, place a layer of gauze at the inlet to prevent fine sediment from entering the pump.
- Ensure the power supply voltage matches the pump's requirements (115V).

3.2 Connecting the Pump

1. Attach the PVC water hose to the stainless steel outlet (NPT1.25") of the pump. Secure it with a hose clamp.
2. If using an external control box (for models with external control), connect the pump's wires to the control box terminals according to the wiring diagram provided inside the control box. Ensure all connections are tight and properly insulated.
3. Securely attach a strong rope or cable to the designated lifting points on the pump to facilitate lowering and retrieval from the well. Do not use the power cord for lifting.

▶ **Watch video online**
VEVOR Deep Well Submersible Pump

Video: This video demonstrates the installation process for the VEVOR Deep Well Submersible Pump, including connecting the hose and wiring the external control box (if applicable). It also shows both vertical and horizontal installation methods.

3.3 Installation Methods

The VEVOR Deep Well Submersible Pump can be installed both vertically and horizontally, offering flexibility for various applications.

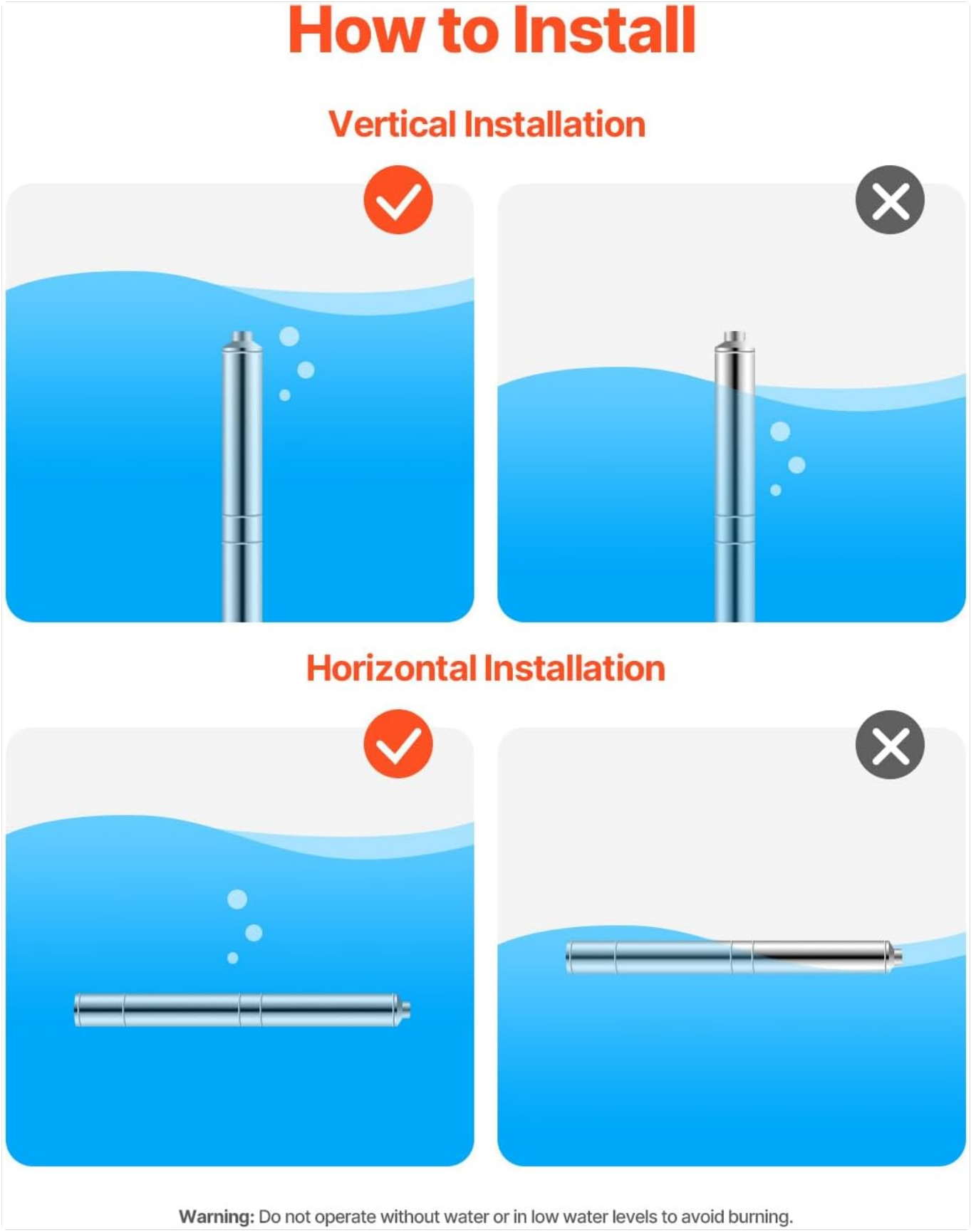


Image: Visual guide showing correct vertical installation (pump fully submerged) and horizontal installation (pump fully submerged), alongside incorrect methods (pump partially submerged).

- **Vertical Installation:** Lower the pump into the well, ensuring it is fully submerged in water. The pump should not touch the bottom of the well to avoid drawing in sediment.
- **Horizontal Installation:** For applications like ponds or tanks, the pump can be laid horizontally, provided it remains fully submerged.
- **Critical Warning:** **Never operate the pump without water or if the water level is too low.**This will cause overheating and permanent damage to the pump.

4. Operating Instructions

1. Ensure the pump is correctly installed and fully submerged in water.
2. Connect the power cord to a grounded electrical outlet.
3. If your model includes an external control box, switch it to the 'ON' position.
4. The pump will begin to draw water. Monitor the water flow to ensure it is consistent and free of excessive air.
5. During operation, the multi-layer filtration mesh will effectively filter out impurities, preventing blockages and ensuring continuous water flow.
6. To stop the pump, switch off the power at the control box or disconnect it from the power source.



Image: The pump demonstrates its high lift capability (276 ft / 84.12 m) and large flow rate (31.7 GPM) for effective water distribution.

5. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your VEVOR Deep Well Submersible Pump.

- **Filtration Mesh Cleaning:** Periodically inspect and clean the stainless steel filtration mesh to remove any accumulated debris. This prevents blockages and maintains efficient water flow.
- **Winterization:** In freezing climates, remove the pump from the water source and drain all water from it to prevent

damage from freezing. Store the pump in a dry, frost-free location.

- **Cable Inspection:** Regularly check the power cord for any signs of damage, cuts, or fraying. Replace damaged cords immediately by a qualified technician.
- **General Cleaning:** Clean the exterior of the pump as needed to remove any buildup.



Image: Close-up of the multi-layer filtration mesh, designed to ensure clear water and prevent impeller blockages.

6. Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power supply; Overload protection tripped; Motor fault	Check power connection and circuit breaker; Reset overload protection; Contact customer support.
Low water flow or pressure	Clogged filtration mesh; Low water level in well; Leak in piping; Impeller damage	Clean filtration mesh; Ensure pump is fully submerged; Check for leaks and repair; Contact customer support.
Pump runs but no water is delivered	Air in the system; Water level too low; Suction pipe blockage	Bleed air from the system; Ensure pump is fully submerged; Check and clear suction pipe.
Pump stops unexpectedly	Overheat protection activated; Power interruption; Low water level	Allow pump to cool down; Check power supply; Ensure adequate water level.

7. Specifications



Item Model Number: 4SSM5/8-1
Voltage Frequency: AC 115V 60Hz
Output Power: 1.5HP
Input Power: 2.5HP
Max. Flow: 31.7GPM
Power Cord Length: 32.81Ft / 10 m
Max. Head: 276 ft / 84.12 m
Discharge Size: NPT1.25"
Control Mode: Built-in
Net Weight: 34.28 lbs / 15.55 kg
Accessories: 1 x Tape、1 x Insulating Tape

Image: Detailed diagram showing the pump's dimensions and a table of its technical specifications.

Attribute	Value
Item Model Number	4SSM5/8-1
Voltage Frequency	AC 115V 60Hz
Output Power	1.5HP

Attribute	Value
Input Power	2.5HP
Max. Flow Rate	31.7 GPM
Max. Head	276 ft / 84.12 m
Power Cord Length	32.81 ft / 10 m
Discharge Size	NPT1.25"
Control Mode	Built-in
Net Weight	34.28 lbs / 15.55 kg
Material	Stainless Steel
Waterproof Grade	IP68

8. Warranty and Support

VEVOR is committed to providing high-quality products and customer satisfaction. For any questions, technical assistance, or warranty claims regarding your Deep Well Submersible Pump, please contact VEVOR customer support.

Please have your model number (4SSM5/8-1) and purchase information ready when contacting support to ensure efficient service.

For more information and support, visit the official VEVOR website or refer to your purchase documentation.

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