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weeflos BP-M-01

weeflos 1.5HP Automatic Booster Pump User Manual

Model: BP-M-01

1. Product Overview

The weeflos 1.5HP Automatic Booster Pump (Model BP-M-01) is designed to increase water pressure for various household and garden applications. It features a durable mechanical pressure switch for automatic operation, self-priming capabilities, and built-in protection mechanisms.

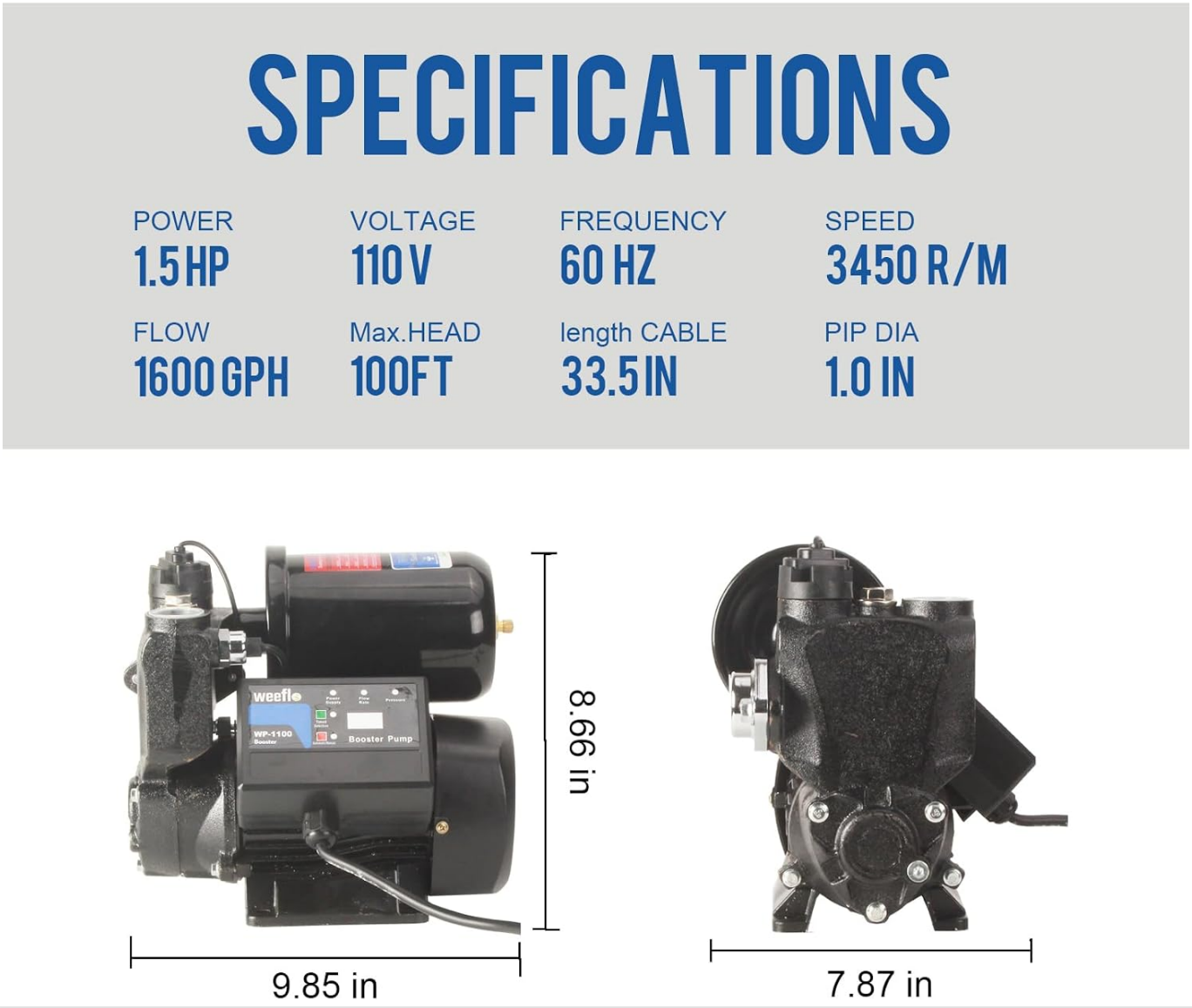


Figure 1: Overview of the weeflos 1.5HP Automatic Booster Pump.

Key Features:

- **Automatic Control:** Mechanical pressure switch automatically starts and stops the pump based on water demand.
- **Powerful Performance:** 1.5HP motor, 1600 GPH flow rate, 100ft maximum head.
- **Self-Priming:** Designed for easy start-up without manual priming after initial setup.
- **Safety Features:** Integrated overheat and dry-run protection.
- **Versatile Applications:** Suitable for boosting shower/faucet pressure, garden irrigation, basement drainage, pool circulation, and water transfer.

2. Safety Information

Read all instructions carefully before installation and operation. Failure to follow safety guidelines may result in injury or damage to the pump.

General Safety Precautions:

- Ensure the power supply matches the pump's voltage (110V, 60Hz).
- Always disconnect power before performing any maintenance or installation.

- Do not operate the pump dry. Ensure the pump is properly primed with water before starting.
- Install the pump in a well-ventilated area, protected from freezing temperatures and direct sunlight.
- Keep children and unauthorized personnel away from the pump during operation.
- Use appropriate plumbing connections and sealants to prevent leaks.

3. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your booster pump.

3.1 Pre-Installation Checklist:

- **Location:** Choose a stable, level surface near your main water supply, protected from weather and freezing.
- **Power:** Verify a 110V, 60Hz power outlet is available.
- **Piping:** Ensure inlet and outlet pipes are 1-inch diameter for best performance.
- **Tools:** Gather necessary plumbing tools, thread sealant, and flexible hoses if desired for vibration reduction.

3.2 Installation Steps:

1. **Position the Pump:** Place the pump on a firm, level surface.
2. **Connect Inlet Pipe:** Connect the 1-inch water inlet pipe to the pump's inlet port. Ensure a tight, leak-free connection using thread sealant.
3. **Connect Outlet Pipe:** Connect the 1-inch water outlet pipe to the pump's outlet port. Secure with thread sealant.
4. **Fill with Water (Priming):** **Before first use and before powering on, the pump MUST be filled with water.** Locate the water filling port (often a hex nut on top of the pump housing). Unscrew the hex nut and slowly pour water into the pump until it is full. Replace the hex nut securely. This step is critical for self-priming functionality.

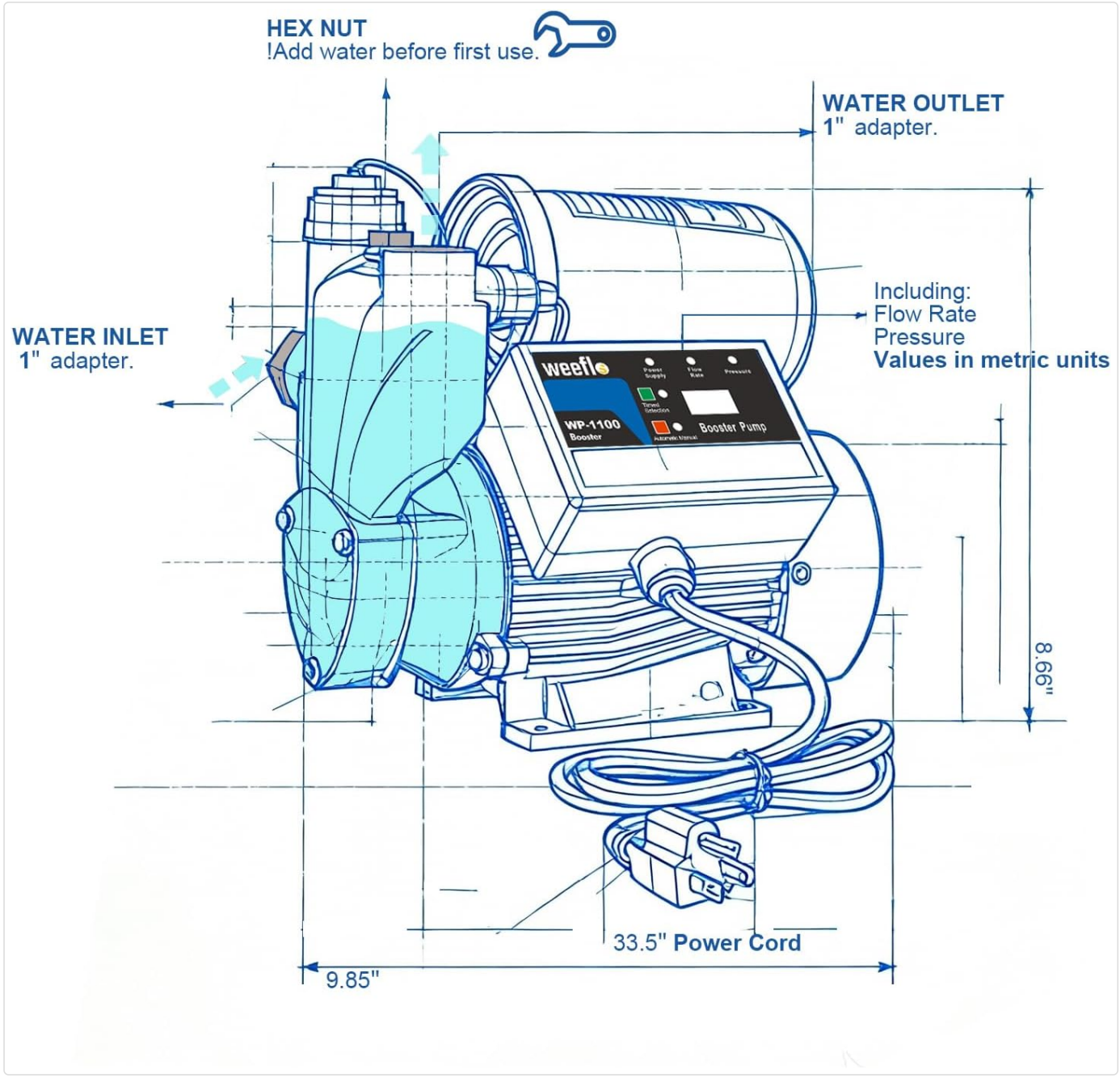


Figure 2: Installation diagram illustrating water inlet, outlet, and the water filling port for priming.



Figure 3: Detailed view of pump connections, highlighting the water inlet, outlet, flow switch, and water filling port.

5. **Check for Leaks:** Open the main water supply valve slowly and check all connections for leaks. Tighten any leaking connections.
6. **Connect Power:** Plug the pump's power cord into a grounded 110V, 60Hz electrical outlet.

4. Operating Instructions

The weeflos booster pump is designed for automatic operation.

4.1 Automatic Operation:

- Once powered on and properly primed, the pump will automatically detect water flow.
- When a faucet or water outlet is opened, the pump will start to boost water pressure.

- When all water outlets are closed, the pump will automatically shut off after a short delay.
- The pump's mechanical pressure switch maintains consistent water pressure within its operating range.
- *Note: This model does not support custom pressure adjustment.*



Figure 4: Illustration of the automatic start-stop function based on water flow.

4.2 Typical Applications:

- **Whole-House Pressure Boosting:** Improves water pressure for showers, faucets, and appliances throughout the home.
- **Garden Irrigation:** Provides sufficient pressure for sprinklers and irrigation systems.
- **Water Transfer:** Can be used for draining basements, filling pools, or transferring water between containers.

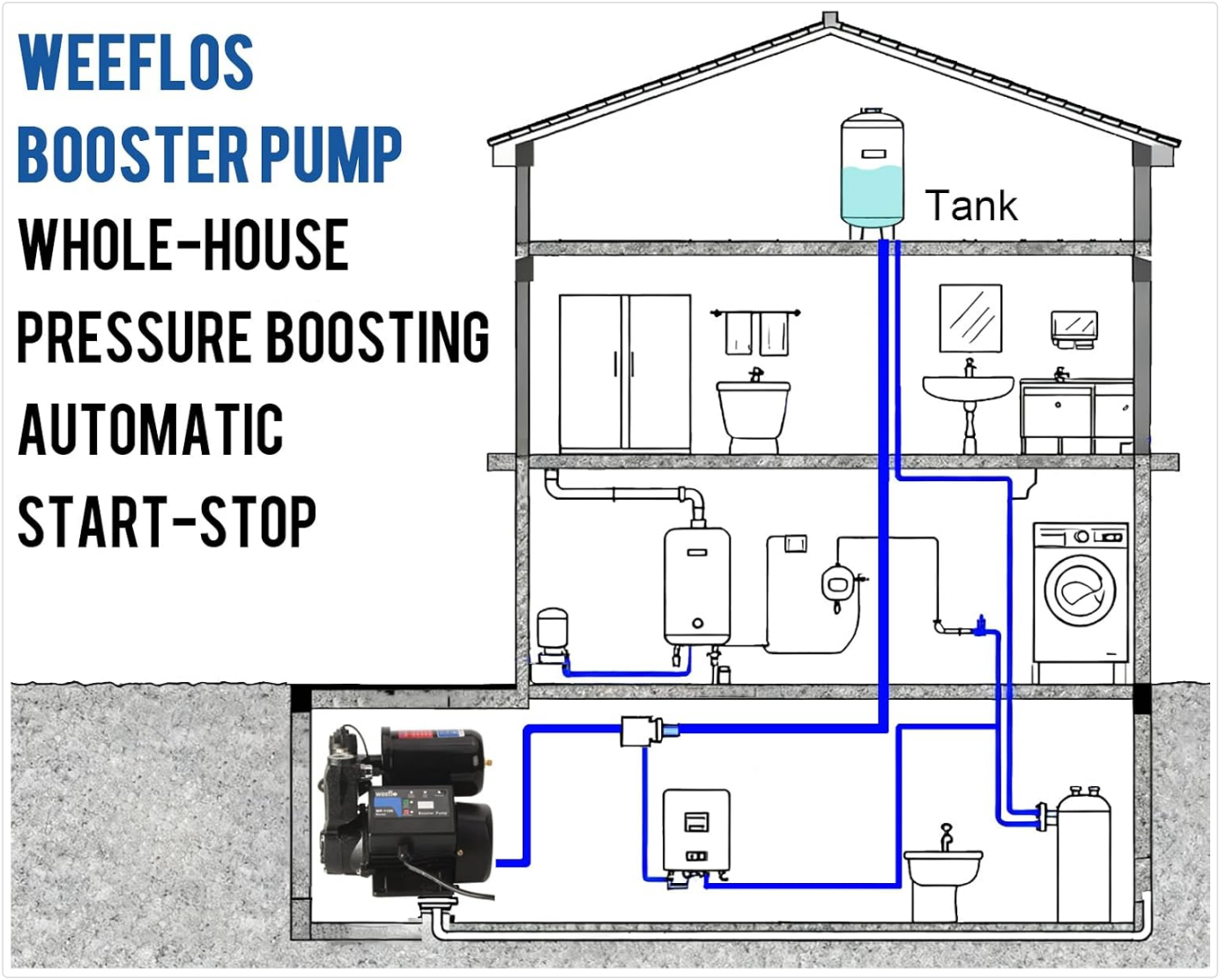


Figure 5: Example of whole-house water pressure boosting setup.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your pump.

5.1 Routine Checks:

- **Inspect for Leaks:** Periodically check all plumbing connections for any signs of water leakage. Tighten or re-seal as necessary.
- **Clean Exterior:** Keep the pump's exterior clean and free from dust and debris to ensure proper ventilation.
- **Listen for Unusual Noises:** Any new or unusual noises may indicate a problem.

5.2 Overheat and Dry-Run Protection:

The pump is equipped with built-in protection. If the pump overheats or runs without water (dry-run), it will automatically shut off to prevent damage. Allow the pump to cool down and check the water supply before restarting.

5.3 Winterization (for cold climates):

If the pump is installed in an area subject to freezing temperatures, it must be drained to prevent damage:

1. Disconnect power to the pump.

2. Close the main water supply valve to the pump.
3. Open a faucet downstream from the pump to relieve pressure.
4. Locate and open the drain plug on the pump (if available) or disconnect the inlet/outlet pipes to allow all water to drain out.
5. Store the pump in a warm, dry place if possible, or ensure it is completely drained and protected from freezing.

6. Troubleshooting

This section addresses common issues you might encounter with your booster pump.

Problem	Possible Cause	Solution
Pump does not start	No power supply Pump not primed Overheat protection activated	Check power connection and circuit breaker. Ensure pump is filled with water (primed). Allow pump to cool down, then check water supply.
Low water pressure	Insufficient water supply Air in the system Clogged inlet filter (if applicable)	Check main water supply. Re-prime the pump. Inspect and clean any inlet filters.
Pump runs continuously	Leak in the plumbing system Faulty check valve Small, constant water draw	Inspect all pipes and fixtures for leaks. Check or replace the check valve. Ensure all faucets are fully closed.
Water spraying from flow sensor	Loose flow sensor connection	Carefully re-tighten the flow sensor connection.

7. Specifications

Technical details for the weeflos 1.5HP Automatic Booster Pump (Model BP-M-01).



Figure 6: Visual representation of pump specifications.

Specification	Value
Brand	weeflos
Model Number	BP-M-01
Horsepower	1.5 HP
Maximum Flow Rate	1600 GPH
Maximum Head	100 feet
Voltage	110 V
Frequency	60 Hz
Speed	3450 R/M
Pipe Diameter	1 inch
Product Dimensions (L x W x H)	9.85" x 7.84" x 8.66"
Material	Cast Iron
Color	Black

8. Warranty and Support

For specific warranty information and customer support, please refer to the documentation included with your purchase or contact weeflos directly. Keep your purchase receipt for warranty claims.

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