

EBERTH DW26-HWW750/50

EBERTH DW26-HWW750/50 Domestic Water System User Manual

Model: DW26-HWW750/50

INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your EBERTH DW26-HWW750/50 Domestic Water System. Please read these instructions carefully before installation, operation, or maintenance. Keep this manual for future reference.

The EBERTH DW26-HWW750/50 is a high-quality domestic water system equipped with a pressure switch for automatic operation. It is designed to supply water for various household and garden applications, such as flushing toilets, operating washing machines, and garden sprinklers, helping to conserve valuable drinking water. The powerful pump and 50-liter pressure tank ensure a constant water pressure of 4 bar and a regular water supply.

SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent personal injury and damage to the equipment.

- **Electrical Safety:** Ensure the power supply matches the specifications (230 V / 50 Hz). Always disconnect the power before any maintenance or installation work. Use a residual current device (RCD) for protection.
- **Water Temperature:** Do not pump water exceeding 40°C (104°F).
- **Installation:** Install the system on a stable, level surface. Ensure proper ventilation. Protect the unit from frost.
- **Operation:** Never operate the pump dry. Ensure the suction line is always filled with water.
- **Maintenance:** Only qualified personnel should perform repairs. Use original spare parts.
- **Children and Pets:** Keep children and pets away from the operating unit.

PRODUCT OVERVIEW

The EBERTH DW26-HWW750/50 domestic water system consists of a powerful pump unit mounted on a 50-liter pressure tank. Key components include the motor, pump housing, pressure switch, manometer, and the pressure tank.



Figure 1: Front-side view of the EBERTH DW26-HWW750/50 Domestic Water System. This image shows the red pressure tank with the red motor and silver pump housing mounted on top.



Figure 2: Side view of the domestic water system, highlighting the pump unit, pressure tank, and the flexible connection hose between them.



Figure 3: Rear view of the domestic water system, showing the motor's cooling fan cover and the black air valve on the pressure tank.

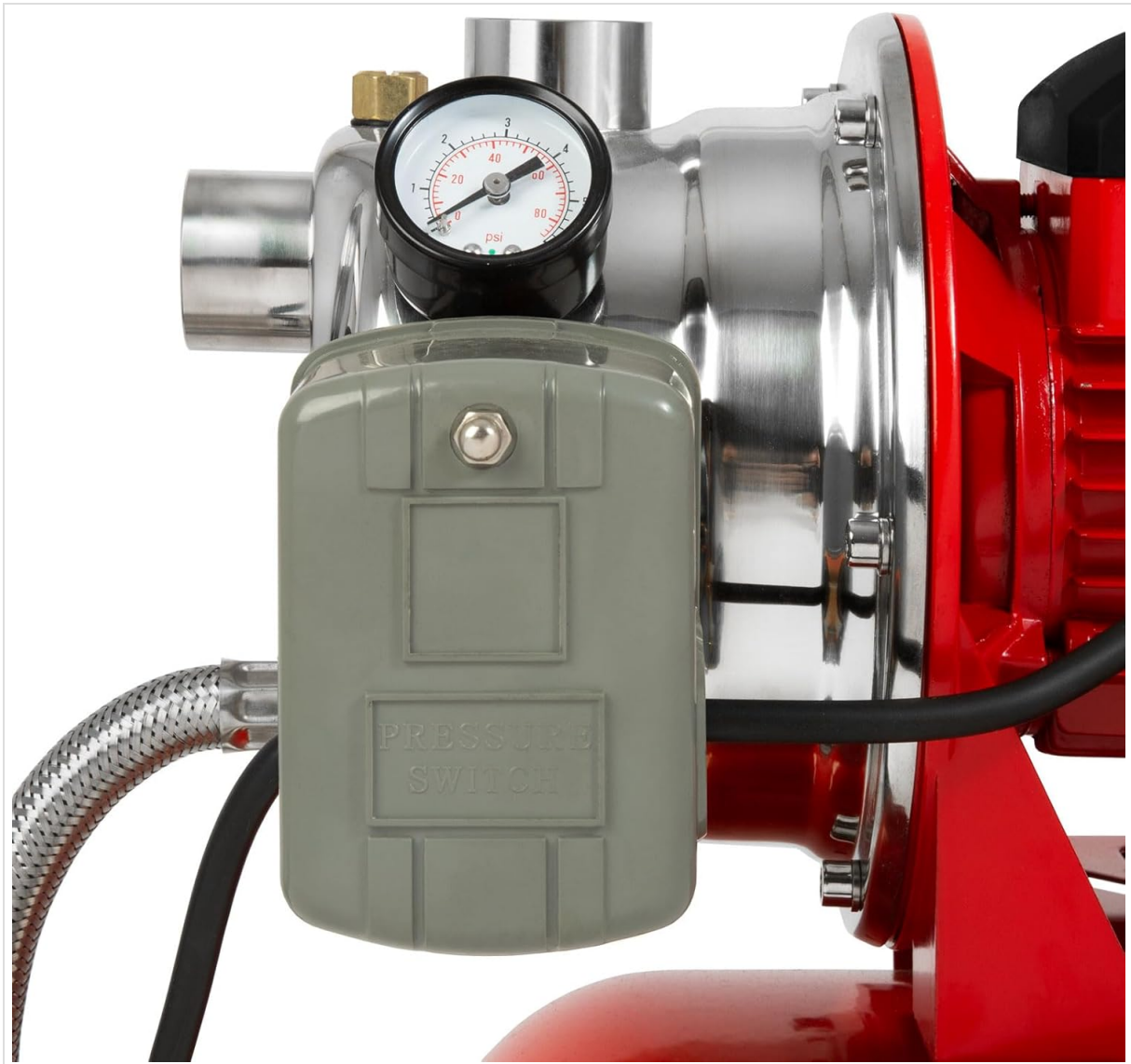


Figure 4: Detailed view of the grey pressure switch box and the pressure gauge (manometer) on the pump housing, indicating water pressure.



Figure 5: Close-up of the pump's water inlet (1" internal thread) and outlet (0.5" internal thread) connections, along with the flexible hose connecting to the pressure tank.

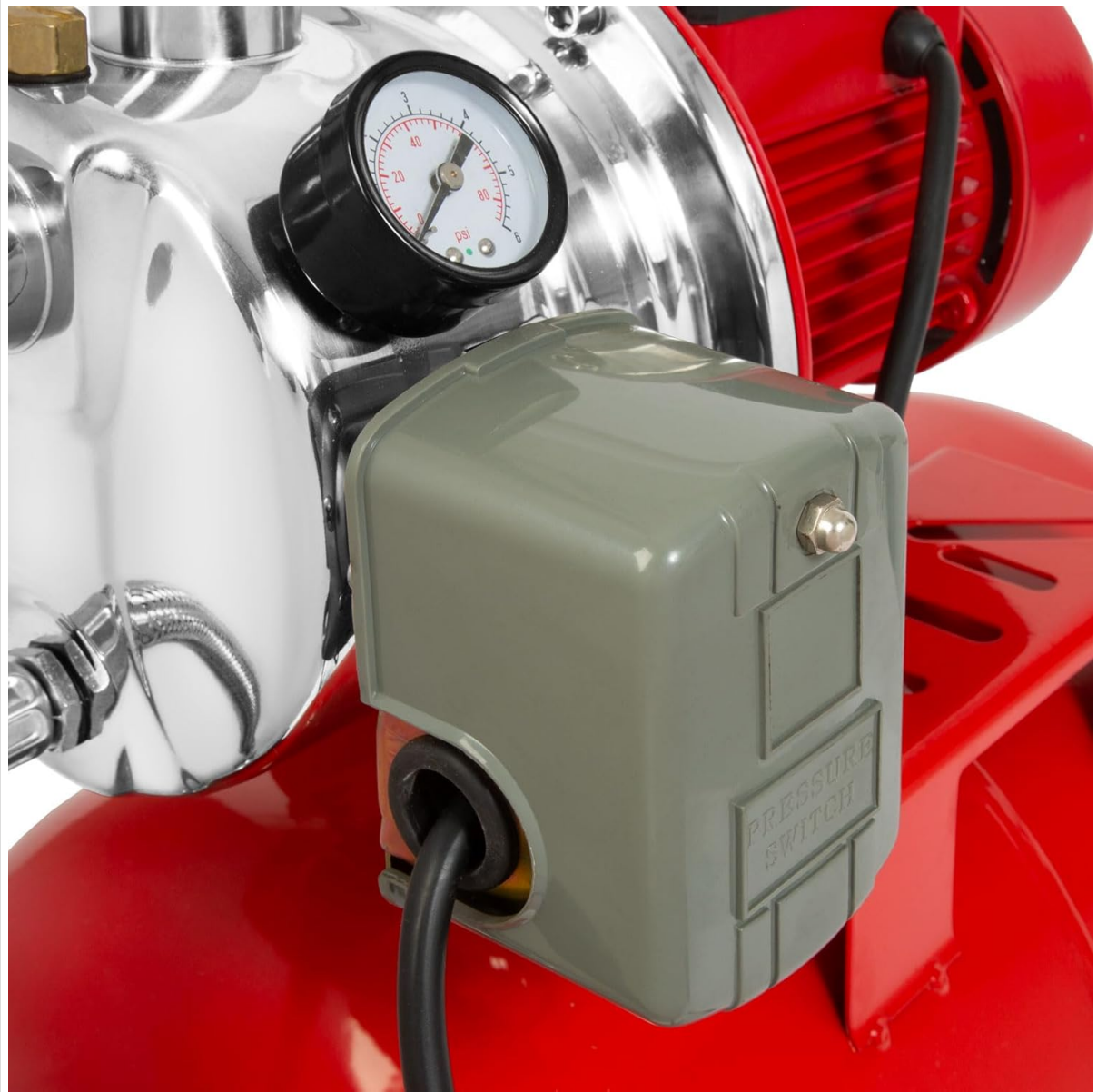


Figure 6: Another detailed perspective of the pressure switch and manometer, showing the electrical cable entry to the switch box.

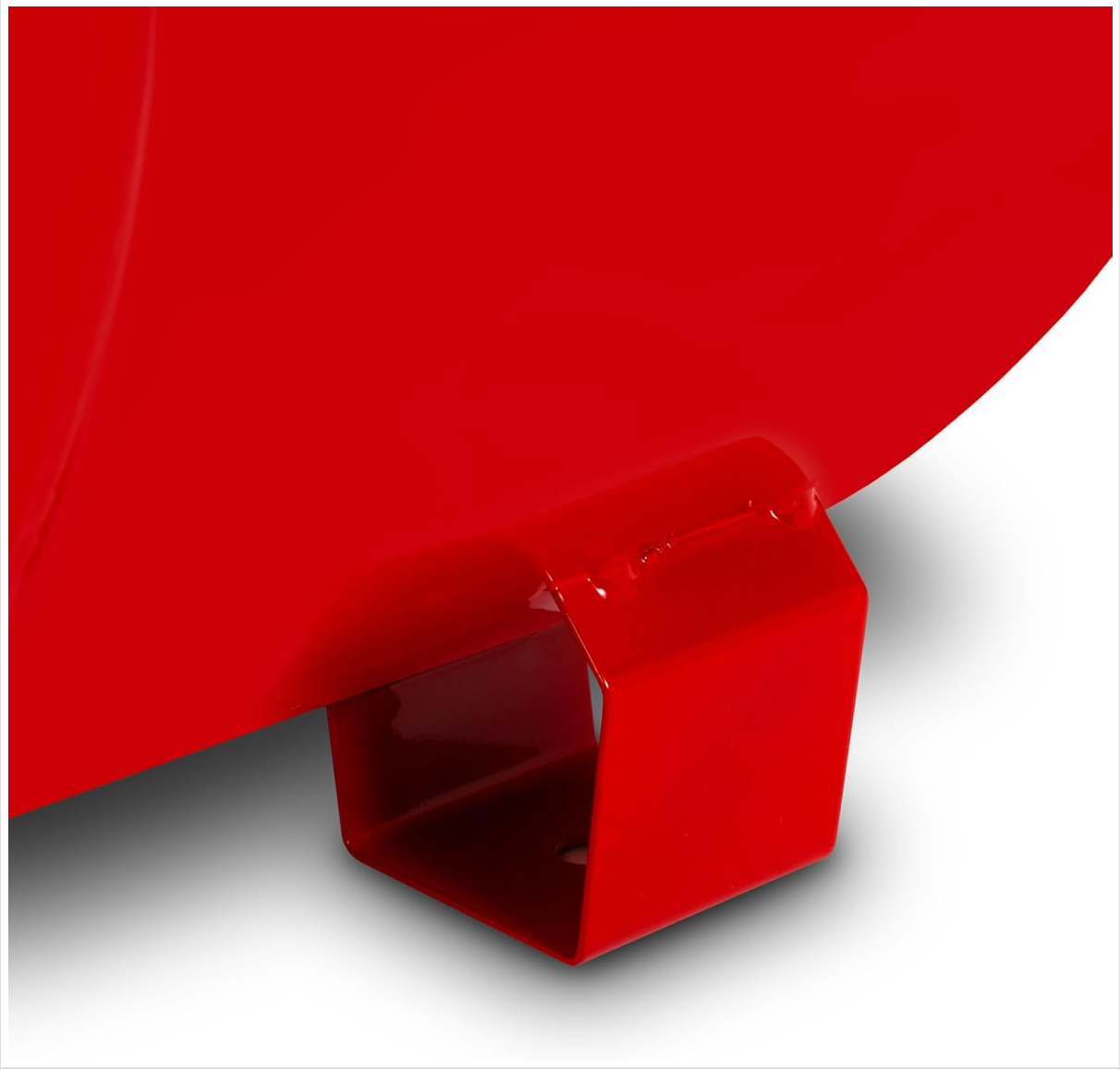


Figure 7: Close-up view of one of the red painted steel support feet, providing stability for the pressure tank.



Figure 8: Detailed view of the connection plate on the pressure tank, where the flexible hose from the pump is attached, secured by multiple bolts.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	DW26-HWW750/50
Network Voltage	230 V / 50 Hz
Power	750 W
Max Flow Rate	60 L/min (3600 L/h)
Max Suction Height	9 m

Max Delivery Height	40 m
Max Delivery Pressure	4 bar
Pressure Tank Volume	50 L
Max Water Temperature	40°C
Suction Connection	1" internal thread
Delivery Connection	0.5" internal thread
Dimensions (L x W x H)	530 x 338 x 558 mm
Net Weight	15 kg
Manometer	Yes
Thermal Overload Protection	Yes
Self-priming	Yes
Sound Power Level LWA	95 dB
Pump Body Material	Stainless Steel
Motor Housing Material	Painted Aluminum
Pressure Tank Material	Painted Steel

SETUP AND INSTALLATION

Follow these steps for proper installation of your domestic water system:

- Location:** Choose a dry, frost-free, and well-ventilated location. The system should be placed on a stable, level surface to minimize vibrations.
- Suction Line Connection:** Connect a 1-inch suction hose to the pump's inlet. Ensure the suction line is airtight to prevent air ingress, which can impair pump performance. Use a foot valve with a filter at the end of the suction line in the water source to prevent debris from entering the pump and to maintain prime. The maximum suction height is 9 meters.
- Delivery Line Connection:** Connect the water delivery line (e.g., to your household plumbing or garden irrigation system) to the pump's 0.5-inch outlet.
- Priming the Pump:** Before initial operation, the pump housing must be completely filled with water through the designated filling opening. This is crucial for self-priming pumps to function correctly.
- Electrical Connection:** Connect the power cable to a grounded 230 V / 50 Hz electrical outlet. Ensure the circuit is protected by a residual current device (RCD).
- Check for Leaks:** After all connections are made, visually inspect for any potential leaks before powering on the unit.

OPERATING INSTRUCTIONS

The EBERTH DW26-HWW750/50 domestic water system features an integrated pressure switch for automatic operation.

1. **Initial Start-up:** After installation and priming, switch on the power. The pump will start and build up pressure in the system and the pressure tank. The manometer will display the current pressure.
2. **Automatic Operation:** The integrated pressure switch automatically controls the pump. When a water tap is opened (e.g., toilet flush, washing machine, garden hose), the pressure in the system drops, and the pump automatically switches on to maintain the desired pressure.
3. **Automatic Shut-off:** When all water outlets are closed, the pressure in the system rises to the set maximum pressure, and the pump automatically switches off. The 50-liter pressure tank helps to reduce the frequency of pump cycles, extending its lifespan and ensuring a consistent water supply.
4. **Monitoring:** Regularly check the manometer to ensure the system is operating within the expected pressure range (up to 4 bar).

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your domestic water system.

- **Regular Checks:** Periodically inspect all connections for leaks. Check the suction line for blockages or air leaks.
- **Filter Cleaning:** If a foot valve with a filter is used, clean the filter regularly to prevent reduced flow or pump damage.
- **Frost Protection:** In cold climates, drain the pump and pressure tank completely before the first frost to prevent damage from freezing water.
- **Pressure Tank Air Pressure:** The air pressure in the pressure tank should be checked periodically (e.g., every 6-12 months) when the system is depressurized. Refer to the specific instructions for your pressure tank for the correct pre-charge pressure.
- **General Cleaning:** Keep the motor and pump housing clean and free from dust and debris to ensure proper cooling.

TROUBLESHOOTING

If you encounter issues with your EBERTH DW26-HWW750/50, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not start or runs continuously.	No power supply; Pressure switch malfunction; Air in suction line; Leak in system.	Check power connection and circuit breaker; Inspect pressure switch settings; Re-prime the pump and check suction line for leaks; Check all connections for leaks.
Reduced water flow or pressure.	Clogged filter in suction line; Air in suction line; Insufficient water source; Pump wear.	Clean or replace suction filter; Re-prime the pump and check suction line; Ensure adequate water supply; Contact service for inspection.

Pump runs, but no water is delivered.	Pump not primed; Suction line not submerged; Air leak in suction line; Foot valve stuck.	Fill pump housing with water; Ensure suction line is fully submerged; Check suction line for airtight seal; Inspect or replace foot valve.
Water leaks from connections.	Loose connections; Damaged seals or threads.	Tighten all connections; Replace damaged seals or use thread sealant tape.
Excessive noise or vibration.	Loose mounting; Air in pump; Bearing wear.	Ensure pump is securely mounted; Bleed air from pump; Contact service for inspection.

WARRANTY AND SUPPORT

EBERTH products are manufactured to high-quality standards. For warranty claims or technical support, please contact your retailer or the EBERTH customer service department. Keep your purchase receipt as proof of purchase.

Please note that damage caused by improper installation, operation, or maintenance, or by unauthorized repairs, is not covered under warranty.