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Hitachi WM-P250X

Hitachi WM-P250X Shallow Well / Pressure Boosting Automatic Bladder Pump User Manual

Model: **WM-P250X** | Brand: **Hitachi**

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Hitachi WM-P250X Shallow Well / Pressure Boosting Automatic Bladder Pump. Please read this manual thoroughly before using the product and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of your pump.

2. Safety Information

Always observe the following safety precautions to prevent personal injury or damage to the pump. Failure to comply with these warnings may result in electric shock, fire, or other serious hazards.

- **Electrical Safety:** Ensure the pump is connected to a properly grounded electrical outlet. Do not operate the pump with damaged cords or plugs. Disconnect power before performing any maintenance or service.
- **Water Safety:** This pump is designed for clean water applications. Do not use it for flammable liquids, corrosive chemicals, or water containing abrasive particles.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from freezing temperatures and direct sunlight. Ensure all plumbing connections are secure and leak-free.
- **Operation:** Never run the pump dry. Ensure the suction line is fully submerged in water before starting. Do not block the pump's ventilation openings.
- **Children and Pets:** Keep children and pets away from the pump during operation.

3. Product Overview

The Hitachi WM-P250X is an automatic bladder pump designed for shallow well applications and pressure boosting. Its compact design integrates the pump, motor, and pressure control system for efficient water supply.



This image displays the Hitachi WM-P250X pump. On the left, a light grey protective cover with the 'HITACHI' logo is visible. On the right, the internal mechanism of the pump is exposed, featuring various grey and black components, including a golden circular part, a yellow cap, and inlet/outlet connections at the bottom.

Key Components:

- **Pump Body:** Houses the impeller and other hydraulic components.
- **Motor:** Provides power for pump operation.
- **Bladder Tank:** Maintains system pressure and reduces pump cycling.
- **Pressure Switch/Controller:** Automatically starts and stops the pump based on water demand.
- **Inlet/Outlet Ports:** Connections for water suction and discharge lines.

4. Setup and Installation

Proper installation is crucial for the pump's performance and safety. If you are unsure about any step, consult a qualified professional.

4.1 Site Selection:

- Choose a location that is level, dry, and protected from the elements.
- Ensure adequate ventilation around the pump.
- The pump should be as close to the water source as possible to minimize suction lift.

4.2 Plumbing Connections:

1. Connect the suction pipe from the water source to the pump's inlet port. Use appropriate fittings and ensure an airtight seal.
2. Install a foot valve with a strainer at the end of the suction pipe in the water source to prevent debris from entering the pump and to maintain prime.
3. Connect the discharge pipe to the pump's outlet port, leading to your water distribution system.
4. Use flexible connectors where possible to reduce vibration and noise.

4.3 Electrical Connection:

- Ensure the power supply matches the pump's voltage requirements (refer to specifications).
- Connect the pump to a dedicated, grounded electrical circuit with appropriate overcurrent protection.

- If extending the power cord, use a heavy-duty outdoor-rated extension cord of adequate gauge.

4.4 Priming the Pump:

1. Remove the priming plug (usually located on top of the pump housing).
2. Fill the pump casing completely with clean water until it overflows.
3. Replace the priming plug securely.

5. Operating Instructions

Follow these steps for safe and effective operation of your Hitachi WM-P250X pump.

5.1 Initial Start-up:

1. After priming, ensure all connections are tight and there are no leaks.
2. Turn on the electrical power to the pump.
3. The pump should start and begin to draw water. Allow it to run until a steady stream of water is discharged and the system pressure stabilizes.
4. Check for any unusual noises or vibrations.

5.2 Normal Operation:

- The automatic bladder pump will start and stop as water is demanded from your system, maintaining a consistent pressure.
- Avoid frequent short cycling of the pump, as this can reduce its lifespan. Ensure there are no small leaks in your plumbing system that could cause this.

5.3 Shutting Down:

- To temporarily stop the pump, simply turn off the power supply.
- For extended periods of non-use, especially in freezing conditions, follow the winterization procedures in the maintenance section.

6. Maintenance

Regular maintenance helps ensure the reliable operation and extends the life of your pump.

6.1 Routine Checks:

- **Monthly:** Inspect the pump and connections for leaks. Check the suction strainer for debris and clean if necessary.
- **Quarterly:** Verify the system pressure and ensure the pump is cycling correctly.
- **Annually:** Inspect electrical connections for corrosion or damage.

6.2 Winterization (for cold climates):

If the pump is installed in an area subject to freezing temperatures and will not be used, it must be drained to prevent damage.

1. Disconnect the power supply to the pump.
2. Open a faucet in the system to relieve pressure.

3. Remove the drain plug(s) from the pump casing and bladder tank (if applicable) to allow all water to drain out.
4. Store the pump in a warm, dry place if possible, or ensure it is completely dry before re-installing plugs.

7. Troubleshooting

This section addresses common issues you might encounter with your pump. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; motor overload; faulty switch	Check power supply; reset breaker; allow motor to cool; inspect switch
Pump runs but no water	Pump not primed; air leak in suction line; clogged suction strainer; low water level in source	Re-prime pump; check suction connections; clean strainer; verify water source level
Low water pressure	Partially clogged pipes/strainer; air in system; worn impeller; incorrect pressure switch setting	Clean pipes/strainer; bleed air from system; inspect impeller; adjust pressure switch (if applicable)
Pump cycles too frequently	Small leak in plumbing; waterlogged bladder tank; faulty pressure switch	Check for leaks; check bladder tank air pressure; inspect/replace pressure switch

8. Specifications

Feature	Detail
Brand	Hitachi
Model	WM-P250X
Product Type	Shallow Well / Pressure Boosting Automatic Bladder Pump
Power Source	Power cord type
Style	Automatic
Product Weight	9 Kilograms
Package Dimensions	38.2 x 33.79 x 33 cm
Manufacturer	Hitachi Appliances, Inc.

9. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact Hitachi customer support directly. Keep your proof of purchase for warranty claims.
If you require technical assistance or have questions not covered in this manual, please contact Hitachi customer service

through their official website or designated support channels.

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