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Pedrollo PK 60

Pedrollo PK 60 0.5 HP Peripheral Pump Instruction Manual

Model: PK 60

Brand: Pedrollo

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pedrollo PK 60 0.5 HP Peripheral Pump. Please read this manual thoroughly before using the pump and retain it for future reference.

1.1 Product Overview

The Pedrollo PK 60 is a high-efficiency peripheral pump designed for various domestic and commercial water pumping applications. Its robust construction, featuring stainless steel and cast iron components, ensures reliable and long-lasting performance. This pump is ideal for water supply, garden irrigation, and recirculation systems.

Key Features:

- **Efficiency:** High-efficiency peripheral pump with 0.5 HP power and 220/440V voltage.
- **Durable Construction:** Pump body manufactured with quality materials for a long lifespan.
- **Easy Installation:** Compact design facilitates installation and maintenance.
- **Versatility:** Suitable for a wide range of domestic and industrial applications.
- **Energy Saving:** Optimized design for reduced energy consumption.

The pump offers a maximum flow rate of 40 liters per minute and a maximum head of 38 meters.

2. Safety Information

Always prioritize safety. Failure to follow these instructions may result in personal injury, electric shock, or equipment damage. Observe all local and national safety regulations.

- **Electrical Safety:** Disconnect power before any installation, maintenance, or repair. Ensure proper electrical grounding according to local codes. All electrical connections must be performed by a qualified electrician.

- **Dry Running:** Do not operate the pump dry. Dry running can cause severe damage to the pump.
- **Temperature Protection:** Protect the pump from freezing temperatures. Drain the pump completely if there is a risk of frost.
- **Personal Protective Equipment (PPE):** Use appropriate PPE, such as safety glasses and gloves, during installation and maintenance.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating.
- **Water Quality:** This pump is designed for clean water. Do not use it for flammable, corrosive, or abrasive liquids.

3. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your pump. Follow these steps carefully.

3.1 Unboxing and Inspection

Carefully remove the pump from its packaging. Inspect for any visible damage that may have occurred during shipping. Ensure all components listed in the packing list are present.

Image: Side view of the Pedrollo PK 60 Peripheral Pump. The pump features a blue housing for the wet end and a black motor casing with cooling fins. The inlet and outlet ports are visible.

3.2 Mounting the Pump

- Mount the pump on a solid, level, and stable surface to minimize vibration and noise during operation.
- Secure the pump using appropriate fasteners through the mounting holes on the base.
- Ensure the installation location provides adequate ventilation around the motor and is protected from

direct weather exposure.

3.3 Plumbing Connections

- Connect the suction and discharge pipes to the pump's 1-inch ports. Use appropriate fittings and thread sealants (e.g., PTFE tape) to ensure airtight and watertight connections.
- The suction line must be completely airtight to prevent air from entering the pump, which can lead to loss of prime or reduced performance.
- Install a foot valve with a strainer at the end of the suction line if drawing water from a well or tank to prevent debris from entering the pump and to maintain prime.
- Install a check valve on the discharge side if necessary to prevent backflow.

3.4 Electrical Connections

The pump operates on 220/440V. All electrical connections must be performed by a qualified electrician in accordance with local electrical codes and regulations.

- Refer to the wiring diagram provided on the pump's motor label and in this manual for correct connections.
- Ensure the power supply matches the pump's voltage and frequency requirements.
- Install appropriate circuit protection (e.g., circuit breaker or fuse) and a residual current device (RCD) for safety.
- Ensure the pump is properly grounded to prevent electric shock.

Image: The official Pedrollo brand logo, featuring a red circular emblem with white wave-like lines above the blue 'Pedrollo' text. This logo signifies the manufacturer of the pump.

3.5 Priming the Pump

Before first use, or if the pump has run dry, it must be primed. Priming ensures the pump casing is filled with water, allowing it to create suction.

- Remove the priming plug (if present) located on the top of the pump casing.
- Slowly fill the pump casing with clean water through the priming hole or the discharge port until it overflows.
- Replace the priming plug securely, ensuring an airtight seal.
- Open any valves on the discharge side to allow air to escape during startup.

4. Operating Instructions

Follow these guidelines for safe and effective operation of your Pedrollo PK 60 pump.

4.1 Starting the Pump

- Ensure the pump has been properly installed and primed as described in Section 3.
- Connect the pump to the power supply. The pump should start immediately.
- Monitor the pump for the first few minutes of operation. Listen for unusual noises or vibrations.
- Confirm that water is flowing correctly and that there are no leaks.

4.2 Continuous Operation

The Pedrollo PK 60 is designed for continuous duty. To ensure optimal performance and prevent damage:

- Ensure the water supply is constant to prevent the pump from running dry.
- Avoid operating the pump against a closed discharge valve for extended periods, as this can lead to overheating.

4.3 Stopping the Pump

To stop the pump, simply disconnect it from the power supply. If the pump will not be used for an extended period, follow the winterization procedures in Section 5.2.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your pump. Always disconnect power before performing any maintenance.

5.1 Routine Checks

- **Check for Leaks:** Periodically inspect all pipe connections for leaks. Tighten fittings as necessary.
- **Power Cable Inspection:** Regularly check the power cable for any signs of damage, fraying, or insulation wear. Replace damaged cables immediately.
- **Motor Ventilation:** Ensure the motor's cooling fins and ventilation openings are free from dust, dirt, and debris to prevent overheating.
- **Pump Exterior:** Clean any debris or buildup from the pump exterior.
- **Foot Valve/Strainer:** If a foot valve is installed, periodically check and clean its strainer to ensure unrestricted water flow.

5.2 Winterization

In areas subject to freezing temperatures, it is essential to winterize the pump to prevent damage from ice expansion.

- Disconnect the pump from the power supply.
- Drain the pump completely by removing the drain plugs (if present) and disconnecting the suction and discharge pipes.
- Store the pump in a dry, frost-free location if possible. If the pump cannot be moved, ensure all water is removed and consider insulating it.

6. Troubleshooting

This section provides solutions to common problems you might encounter with your pump. For issues not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
Pump does not start	No power supply; Motor overload protection tripped; Impeller jammed	Check power connection, circuit breaker, or fuse; Allow motor to cool and reset; Disconnect power and clear any obstruction from the impeller
Pump runs but no water is delivered	Pump not primed; Air leak in suction line; Suction lift too high; Foot valve or intake clogged	Prime the pump (Section 3.5); Check all suction line connections for leaks and seal them; Ensure suction lift is within pump specifications; Clean foot valve strainer or intake
Low flow or pressure	Partial clog in suction/discharge line or impeller; Air in the system; Worn impeller or pump components	Clear any clogs; Bleed air from the system; Inspect and replace worn parts if necessary (contact service personnel)
Pump is noisy or vibrates excessively	Cavitation (air in pump); Loose mounting; Bearing wear; Foreign object in pump	Ensure pump is primed and suction line is airtight; Tighten mounting bolts; Contact service personnel for bearing inspection; Disconnect power and check for foreign objects

7. Specifications

Detailed technical specifications for the Pedrollo PK 60 Peripheral Pump.

Feature	Value
Manufacturer	Pedrollo
Model Number	Pk 60
Power Source	Electric
Voltage	220/440V
Horsepower	0.5 HP
Max Flow Rate	40 Liters per minute
Max Head	38 meters
Suction Port	1 inch
Discharge Port	1 inch
Material	Stainless steel, Cast iron
Color	Blue
Style	Industrial
Dimensions (L x W x H)	22 x 20 x 15 cm
Weight	6 Kilograms

Feature	Value
Components Included	Peripheral Pump, Instruction Manual

8. Warranty and Support

For detailed warranty information and technical support, please refer to the official Pedrollo website or contact your authorized Pedrollo dealer. Keep your purchase receipt as proof of purchase for any warranty claims.

Note: Extended protection plans may be available for purchase separately and are not included with the standard product warranty. Consult your retailer for details on available protection plans.

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