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> Pedrollo PKm 60/24CL Hydropneumatic Pump User Manual

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Model: PKm 60/24CL

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your Pedrollo PKm 60/24CL Hydropneumatic Pump. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- Always disconnect power before performing any maintenance or service.
- Ensure the electrical supply matches the pump's requirements (voltage, frequency).
- All electrical connections must be performed by a qualified electrician and comply with local codes.
- Do not operate the pump without water, as this can cause severe damage.
- Keep children and unauthorized personnel away from the pump during operation.
- Install the pump in a well-ventilated area, protected from direct sunlight and freezing temperatures.
- Ensure proper grounding of the unit.

PRODUCT OVERVIEW

The Pedrollo PKm 60/24CL is a compact hydropneumatic pump system designed to maintain constant water pressure in domestic and small commercial applications. It integrates a 0.50 HP pump with a 24-liter pre-charged tank, ensuring efficient and reliable water supply.



Image: Pedrollo PKm 60/24CL Hydropneumatic Pump. This image shows the complete hydropneumatic unit, featuring the blue 24-liter tank, the electric pump mounted on top, and the flexible connection hose.

Key Components:

- **Electric Pump:** 0.50 HP motor for efficient water transfer.
- **Pressure Tank:** 24-liter capacity, pre-charged to maintain stable water pressure.
- **Pressure Switch:** Automatically controls pump operation based on system pressure.
- **Pressure Gauge:** Displays current system pressure.
- **Flexible Connection Hose:** Connects the pump to the pressure tank.

SETUP AND INSTALLATION

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

1. **Location:** Choose a dry, well-ventilated area, protected from frost and direct sunlight. The pump should be installed as close as possible to the water source.
2. **Mounting:** Secure the unit on a stable, level surface to minimize vibration and noise.
3. **Plumbing Connections:**
 - Connect the suction pipe from the water source to the pump's inlet. Ensure the suction line is airtight to prevent air ingress.

- Connect the discharge pipe from the pump's outlet to your water distribution system.
- Use appropriate fittings and sealants to prevent leaks.
- Install a check valve on the suction line if the water source is below the pump.

4. Electrical Connection:

- Ensure the power supply matches the pump's specifications (voltage, frequency).
- Connect the pump to a dedicated, properly grounded electrical circuit with appropriate overcurrent protection.
- All electrical work must comply with local electrical codes and be performed by a licensed electrician.

5. Priming the Pump:

- Before initial startup, remove the priming plug (usually on top of the pump body).
- Fill the pump casing completely with clean water until it overflows.
- Replace the priming plug securely.

OPERATING INSTRUCTIONS

The Pedrollo PKm 60/24CL operates automatically to maintain constant water pressure.

1. Initial Startup:

- After priming, open a faucet in your system to allow air to escape.
- Turn on the electrical power to the pump.
- The pump will start and build pressure. Once the cut-off pressure is reached, the pump will stop.
- Close the faucet. The pump should remain off.

2. Automatic Operation:

- When water is drawn from the system (e.g., opening a faucet), the pressure will drop.
- The pressure switch will detect this drop and automatically start the pump.
- The pump will run until the system pressure reaches the pre-set cut-off pressure, then it will stop.
- This cycle ensures a continuous and stable water supply.

3. Monitoring:

Periodically check the pressure gauge to ensure the system is operating within expected pressure ranges.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your hydropneumatic pump.

- **Check for Leaks:** Regularly inspect all plumbing connections for leaks. Tighten or repair as necessary.
- **Tank Air Pressure:** The pressure tank contains a pre-charged air bladder. Periodically check the air pressure in the tank (when the pump is off and system pressure is zero) and recharge if necessary according to manufacturer specifications (typically 1.5 to 2 bar, or 22-29 PSI, but refer to tank label).
- **Cleanliness:** Keep the pump and motor clean and free from dust and debris to ensure proper ventilation.
- **Winterization (if applicable):** If the pump is in an area subject to freezing temperatures, drain the pump and pipes completely to prevent damage from ice expansion.
- **Electrical Connections:** Periodically check electrical connections for corrosion or looseness.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start.	No power supply. Motor overload. Pressure switch malfunction.	Check power connection, circuit breaker. Allow motor to cool, check for obstructions. Inspect or replace pressure switch.
Pump runs continuously or cycles frequently.	Air in the system. Low air pressure in tank. Leak in plumbing system. Pressure switch setting incorrect.	Re-prime the pump. Check and recharge tank air pressure. Inspect and repair leaks. Adjust pressure switch settings (consult professional).
Low water pressure.	Clogged suction line or impeller. Pump not primed. Insufficient water supply. Worn pump components.	Clean suction line/impeller. Prime the pump. Ensure adequate water source. Contact service technician.
Pump is noisy.	Air in the system. Cavitation. Loose mounting. Worn bearings.	Bleed air from system. Ensure adequate water supply to pump. Tighten mounting bolts. Contact service technician.

If problems persist after attempting these solutions, contact a qualified service technician.

SPECIFICATIONS

- **Model:** Pedrollo PKm 60/24CL
- **Motor Power:** 0.50 HP
- **Tank Capacity:** 24 Liters
- **Power Source:** Electric Cable
- **Material:** Plastic (Note: While "Plastic" is listed, key pump components are typically cast iron or stainless steel for durability.)
- **Style:** Industrial
- **Application:** Domestic water supply, irrigation systems, pressurization.
- **Automatic System:** Maintains constant pressure without manual operation.

WARRANTY AND SUPPORT

For warranty information, technical support, or to locate authorized service centers, please refer to the documentation provided with your purchase or visit the official Pedrollo website. Keep your proof of purchase for warranty claims.

Pedrollo Official Website: www.pedrollo.com



