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› [PERIPHERAL BOOSTER WATER PUMP PKm60 220V60HZ 0.5HP 1 inch x 1 inch NPT \(PKm60220\)](#)

Pedrollo PKm60220

PERIPHERAL BOOSTER WATER PUMP

MODEL: PKM60220

Brand: Pedrollo

Introduction

This manual provides essential information for the safe and efficient operation and maintenance of your Pedrollo PKm60 Peripheral Booster Water Pump. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent injury or damage.

The Pedrollo PKm60 pump is designed for use with clean water that does not contain abrasive particles and liquids that are not chemically aggressive towards the pump's materials. It is ideal for domestic use, including water distribution in combination with small pressure sets and for garden and allotment irrigation. For optimal performance and longevity, the pump should be installed in an enclosed environment or at least sheltered from inclement weather.

Safety Information

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

- Always disconnect the pump from the power supply before performing any installation, maintenance, or repair work.
- Ensure the electrical installation complies with all local and national electrical codes. The pump requires a 220V 60Hz power supply.
- The pump must be properly grounded to prevent electric shock.
- Do not operate the pump if the power cord or plug is damaged.
- Do not pump flammable, explosive, or corrosive liquids. This pump is designed for clean water only.
- Protect the pump from freezing temperatures. Freezing water inside the pump can cause severe damage.
- Ensure adequate ventilation around the pump to prevent overheating.
- Keep children and unauthorized persons away from the pump during operation.
- For complex installations or if you are unsure, consult a qualified electrician or plumber.

Product Overview

The Pedrollo PKm60 is a reliable peripheral booster pump designed for efficient water handling in domestic applications. Its compact design and robust construction ensure long-term performance.



Figure 1: Front-side view of the Pedrollo PKm60 Peripheral Booster Water Pump. The pump is blue with a black motor housing and a red pressure relief valve. It features a 1-inch NPT inlet and outlet.

Key Features:

- **Liquid Type:** Clean water
- **Applications:** Water supply systems, pressure systems, irrigation pumps
- **Typology:** Surface pump
- **Family:** Peripheral
- **Performance Range:** Flow rate up to 11 GPM, Head up to 130 ft.
- **Temperature of Liquid:** -10 °C to +60 °C
- **Ambient Temperature:** Up to +40 °C (+50 °C for PK 60)
- **Manometric Suction Lift:** Up to 8 m
- **Working Pressure:** 6 bar for PK 60
- **Power:** 0.5 HP
- **Connections:** 1 inch x 1 inch NPT

Setup and Installation

Proper installation is crucial for the pump's performance and longevity. It is recommended that installation be performed by a qualified professional.

1. **Location:** Install the pump in a dry, well-ventilated area, protected from direct sunlight, rain, and freezing temperatures. An enclosed environment is ideal.
2. **Mounting:** Securely mount the pump on a stable, level surface using appropriate fasteners. Ensure there is sufficient

space around the pump for ventilation and maintenance access.

3. Piping Connections:

- Connect the suction pipe to the pump's inlet (typically marked "IN" or with an arrow pointing towards the pump). Ensure the suction pipe is airtight to prevent air leaks, which can cause the pump to lose prime.
- Connect the discharge pipe to the pump's outlet (typically marked "OUT" or with an arrow pointing away from the pump).
- Use appropriate fittings (1 inch NPT) and sealants to ensure leak-free connections. Avoid putting strain on the pump's connections from the piping.
- 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.

4. Electrical Connection:

- Ensure the power supply matches the pump's requirements (220V 60Hz).
- Connect the pump to a dedicated circuit protected by a circuit breaker or fuse of appropriate rating.
- Verify proper grounding to prevent electrical hazards.

5. Priming the Pump: Before initial operation, the pump must be primed.

- Remove the priming plug (usually located on the top of the pump casing).
- Fill the pump casing completely with clean water until it overflows.
- Replace the priming plug securely.
- Open any valves on the suction and discharge lines.

Operating Instructions

Once installed and primed, the pump is ready for operation.

- 1. Initial Start-up:** After priming, connect the pump to the power supply. The pump should start immediately and begin pumping water.
- 2. Monitoring:**
 - Observe the pump during the first few minutes of operation for any unusual noises, vibrations, or leaks.
 - Check the pressure gauge (if installed) to ensure the pump is operating within its specified working pressure range (6 bar for PK 60).
 - Ensure a steady flow of water. If the pump runs without delivering water, shut it off immediately to prevent damage from dry running. Re-prime the pump.
- 3. Continuous Operation:** The pump is designed for continuous duty within its specified performance limits. Avoid operating the pump outside these limits.
- 4. Shut-down:** To turn off the pump, disconnect it from the power supply. If the pump will be out of use for an extended period, especially in cold weather, follow the winterization procedures in the Maintenance section.

Maintenance

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

- **Regular Inspection:** Periodically check the pump for any signs of leaks, corrosion, or damage to the casing or electrical components.
- **Cleanliness:** Keep the pump and its surroundings clean and free from debris. Ensure ventilation openings are not obstructed.

- **Foot Valve/Strainer:** Inspect and clean the foot valve and strainer regularly to prevent blockages and ensure unrestricted water flow into the pump.
- **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.
 - Disconnect power to the pump.
 - Open the drain plug (if present) or disconnect the suction and discharge pipes to allow all water to drain from the pump casing and pipes.
 - Store the pump in a warm, dry place if possible, or ensure it is completely dry before reassembly.
- **Professional Service:** For any internal repairs or complex issues, contact a qualified service technician. Do not attempt to disassemble the motor or pump head beyond basic maintenance.

Troubleshooting

This section outlines common issues and their potential solutions. Always disconnect power before troubleshooting.

Problem	Possible Cause	Solution
Pump does not start.	No power, tripped circuit breaker, faulty wiring, seized impeller.	Check power supply, reset breaker, inspect wiring (by qualified person), check for obstructions in impeller.
Pump runs but no water or low flow.	Pump not primed, air leak in suction line, clogged foot valve/strainer, low water level in source, discharge valve closed.	Re-prime pump, check suction line for leaks, clean foot valve/strainer, ensure adequate water in source, open discharge valve.
Pump is noisy or vibrates excessively.	Air in pump/suction line, cavitation, loose mounting, worn bearings.	Re-prime pump, check for air leaks, ensure adequate water supply, tighten mounting bolts, contact service for bearing issues.
Pump cycles on and off frequently.	Pressure switch malfunction, small leak in system, waterlogged pressure tank (if applicable).	Inspect pressure switch, check for leaks in plumbing, inspect pressure tank.

Specifications

Detailed technical specifications for the Pedrollo PKm60 Peripheral Booster Water Pump.

Parameter	Value
Model Number	PKm60220
Manufacturer	PEDROLLO
Liquid Type	Clean water
Power Source	AC/DC (220V 60Hz)
Horsepower	0.5 HP
Flow Rate (Max)	11 GPM (Gallons Per Minute)
Head (Max)	130 ft.

Parameter	Value
Liquid Temperature Range	-10 °C to +60 °C
Ambient Temperature (Max)	+40 °C (+50 °C for PK 60)
Manometric Suction Lift (Max)	8 m
Working Pressure (PK 60)	6 bar
Inlet/Outlet Connections	1 inch x 1 inch NPT
Item Weight	13 pounds
Product Dimensions	12 x 8 x 8 inches

PERFORMANCE CURVES

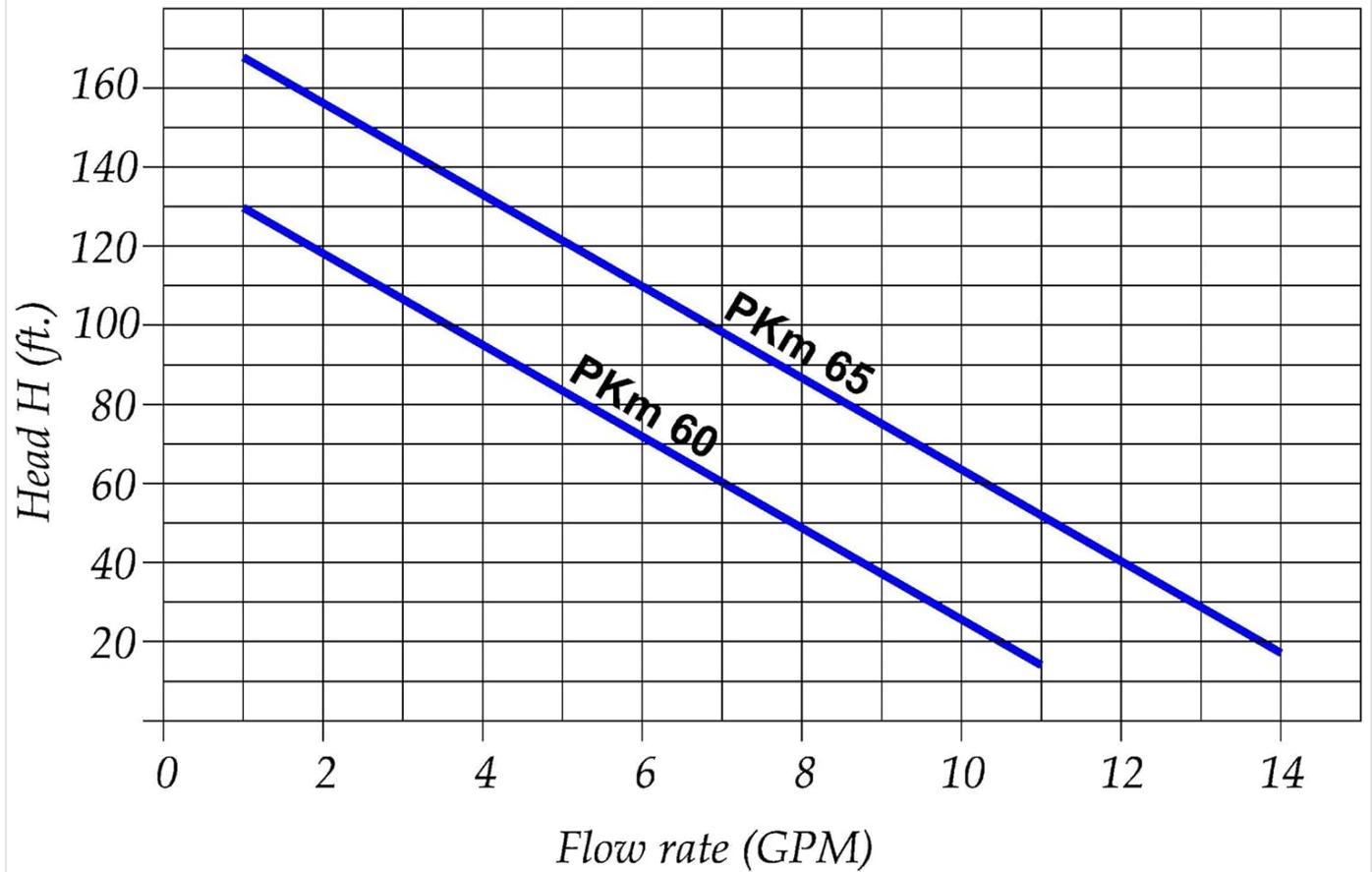


Figure 2: Performance curves illustrating the relationship between Head (ft.) and Flow rate (GPM) for Pedrollo PKm60 and PKm65 pumps. The PKm60 curve shows a maximum flow rate of approximately 11 GPM at 20 ft. head and a maximum head of 130 ft. at 0 GPM.

Warranty and Support

Warranty information for your Pedrollo PKm60 pump is typically provided at the time of purchase or included with the product packaging. Please refer to your purchase documentation for specific warranty terms and conditions.

For technical support, spare parts, or service inquiries, please contact Pedrollo customer service or an authorized Pedrollo dealer. Ensure you have your pump's model number (PKm60220) and serial number (if applicable) ready when contacting support.

Related Documents - PKm60220

	<p>DAYLIFF WG Water Treatment Plant: Installation & Operating Manual</p> <p>Comprehensive installation and operating manual for the DAYLIFF WG Water Treatment Plant by Davis & Shirliff. Covers specifications, operation, maintenance, troubleshooting, and warranty for small-scale water purification systems.</p>
	<p>Pedrollo PRESFLO MULTI Automatic Control Device - Technical Specifications</p> <p>Detailed technical specifications, installation guide, and features of the Pedrollo PRESFLO MULTI automatic electronic pressure control device for domestic water supply and pressure boosting.</p>
	<p>Pedrollo PKm 60® Peripheral Impeller Pump - Technical Specifications and Performance</p> <p>Detailed information on the Pedrollo PKm 60® peripheral impeller pump, including performance range, application limits, technical specifications, dimensions, and absorption data. Suitable for clean water transfer in domestic applications.</p>
	<p>Pedrollo TRITUS Submersible Pumps with Grinder: Technical Specifications and Applications</p> <p>Explore the technical specifications, performance curves, dimensions, and installation guidelines for Pedrollo TRITUS submersible pumps with grinders. Ideal for domestic and civil wastewater management.</p>
	<p>Pedrollo CP Centrifugal Pumps - Technical Specifications and Performance</p> <p>Detailed technical specifications, performance curves, and construction characteristics for Pedrollo CP series centrifugal pumps, designed for clean water applications in domestic and civil sectors.</p>

