Pedrollo JSWm/2CX

PEDROLLO JSWm/2CX Self-Priming Water Pump User Manual

Model: JSWm/2CX | Brand: Pedrollo

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your PEDROLLO JSWm/2CX self-priming water pump. Please read these instructions carefully before installation or use and retain them for future reference.

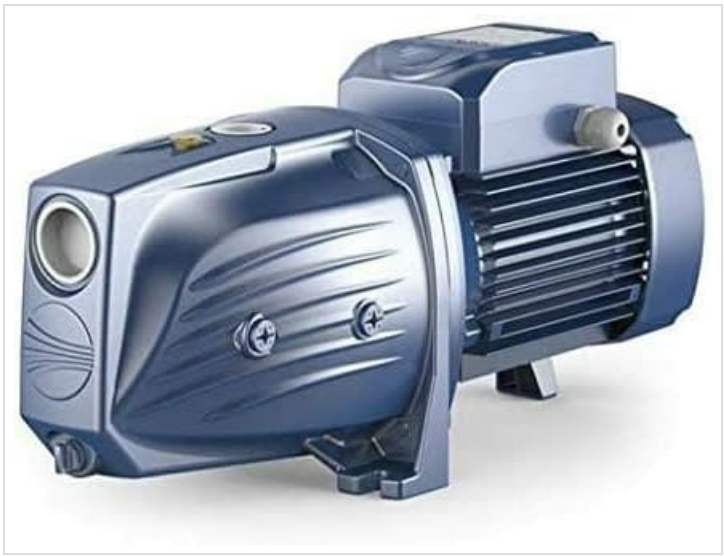

Figure 1: PEDROLLO JSWm/2CX Self-Priming Water Pump. This image shows the blue-colored pump unit with its motor housing and pump body, designed for efficient water transfer.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the pump:

- Ensure the pump is installed by a qualified professional.
- Disconnect power before performing any maintenance or service.
- Do not operate the pump with flammable or corrosive liquids.

- Protect the pump from freezing temperatures.
- Ensure proper grounding of the electrical connection.

Product Overview

The PEDROLLO JSWm/2CX is a self-priming centrifugal pump designed for reliable water transfer. It is suitable for pumping clean water and liquids that are not chemically aggressive to the pump's components. Its self-priming capability allows it to draw water even when air is present in the suction line, making it ideal for domestic water supply, small to medium autoclave tank systems, and garden irrigation.

Key Features:

- Self-priming design for efficient operation.
- Suitable for clean water and non-aggressive liquids.
- Robust construction with stainless steel components.
- Designed for continuous duty in domestic and garden applications.

Setup and Installation

Proper installation is crucial for the pump's performance and longevity. Consult a qualified technician for installation.

1. **Location:** Install the pump in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures. Ensure adequate space for maintenance.
2. **Mounting:** Securely fasten the pump to a stable, level surface using appropriate bolts to minimize vibration.
3. **Piping:**
    - Use pipes of adequate diameter to minimize friction losses.
    - Ensure all connections are airtight, especially on the suction side, to prevent air ingress.
    - Install a foot valve with a strainer at the end of the suction pipe to prevent debris from entering the pump and to maintain prime.
    - Install a gate valve on both the suction and discharge sides for isolation during maintenance.
4. **Electrical Connection:**
    - Connect the pump to a suitable power supply (220-230V, 50Hz) as indicated on the motor's data plate.
    - Ensure the electrical circuit is protected by a residual current device (RCD) and an appropriately rated circuit breaker.
    - Verify proper grounding according to local electrical codes.
5. **Priming:** Before initial startup, completely fill the pump casing and the suction line with clean water through the priming port. This is essential for self-priming pumps to initiate operation.

Operating Instructions

1. **Initial Start-up:** After installation and priming, open the discharge valve fully. Switch on the power supply. The pump should start and begin to draw water.
2. **Continuous Operation:** Monitor the pump for unusual noises or vibrations. Ensure the pump is not running dry, as this can cause severe damage.
3. **Shut-down:** To stop the pump, switch off the power supply. If the pump is part of an automatic system (e.g., with a pressure switch), it will start and stop automatically based on demand.
4. **Temperature Limits:**

- Liquid temperature: up to +40 °C.
- Ambient temperature: -10 °C to +40 °C.

Maintenance

Regular maintenance ensures optimal performance and extends the pump's lifespan. Always disconnect power before maintenance.

- **Regular Checks:** Inspect the pump and piping for leaks, corrosion, or damage.
- **Strainer Cleaning:** Periodically clean the foot valve strainer to prevent blockages and maintain flow.
- **Winterization:** In areas prone to freezing, drain the pump completely and store it in a warm, dry place, or insulate it adequately to prevent damage from ice expansion.
- **Motor Inspection:** Ensure the motor's cooling fins are free from dust and debris to prevent overheating.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power supply; Motor overload; Seized impeller.	Check power connection and circuit breaker; Reset thermal overload; Contact service technician.
Pump runs but no water is delivered	Pump not primed; Air leak in suction line; Foot valve clogged; Suction lift too high.	Re-prime the pump; Check all suction connections for leaks; Clean foot valve strainer; Reduce suction lift if possible.
Reduced flow or pressure	Partial blockage in piping; Worn impeller; Air in system.	Inspect and clear piping; Contact service technician for impeller replacement; Bleed air from system.
Excessive noise or vibration	Cavitation (air in water); Loose mounting; Bearing wear.	Check for air leaks and ensure proper priming; Tighten mounting bolts; Contact service technician.

Specifications

Parameter	Value
Model	JSWm/2CX
Brand	Pedrollo
Power (HP)	1 HP
Voltage / Frequency	220-230V / 50Hz
Max Flow Rate	70 Liters per minute
Liquid Temperature Range	Up to +40 °C
Ambient Temperature Range	-10 °C to +40 °C
Material	Stainless Steel (pump body components)
ASIN	B07HMZ2DKQ

Parameter	Value
International Article Code	08052230012515

Note: The specification for "Power: 220 Watts" found in some product listings may refer to a specific component or a different metric. The pump's performance is rated at 1 HP.

Warranty and Support

For warranty information, technical support, or spare parts, please contact your authorized Pedrollo dealer or visit the official Pedrollo website. Keep your purchase receipt as proof of purchase.
Manufacturer: PEDROLLO

Related Documents - JSWm/2CX

	Pedrollo EP Electronic Protection Device - User Manual & Datasheet Comprehensive guide to the Pedrollo EP Electronic Protection Device, detailing its features, technical specifications, installation, and operation. Protects pumps from dry running, overcurrent, overvoltage, and undervoltage. Suitable for domestic use.
	Pedrollo E1-E2 Electronic Electrical Panels for Pumps Comprehensive guide to Pedrollo E1 and E2 electronic control panels, designed for managing single or dual pump systems in residential, commercial, and industrial settings. Features include selectable operating modes, dry-running protection, and intuitive user interfaces for efficient pump operation.
	Pedrollo STEADYPRES: Variatore Elettronico di Frequenza per Pompe Manuale completo per il Pedrollo STEADYPRES, un inverter per il controllo di elettropompe. Offre istruzioni dettagliate su installazione, configurazione, funzionamento, gestione allarmi, risoluzione guasti e dati tecnici per ottimizzare la pressione e proteggere la pompa.

	[JSW JET Self-Priming Pumps: Performance, Technical Data, and Materials] Detailed technical specifications, performance curves, dimensions, materials, and application data for JSW JET self-priming pumps by Pedrollo. Suitable for domestic, civil, and industrial use.
	[Pedrollo PLURIJET 80-100 & 80X-100X Self-Priming Multi-Stage Pumps Datasheet] Comprehensive technical specifications, performance data, installation guidance, and construction details for the Pedrollo PLURIJET 80-100 and PLURIJET 80X-100X series of self-priming multi-stage pumps, suitable for domestic and civil applications.
	[Pedrollo TRITUS Submersible Pumps with Grinder: Technical Specifications and Applications] Explore the technical specifications, performance curves, dimensions, and installation guidelines for Pedrollo TRITUS submersible pumps with grinders. Ideal for domestic and civil wastewater management.