

Pedrollo JSWM2CX

Pedrollo JSWM2CX Water Pump Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pedrollo JSWM2CX self-priming water pump. Please read these instructions carefully before using the product and retain them for future reference.

2. SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. This pump operates with electricity and water, which can be hazardous if not handled correctly.

- Ensure the power supply matches the pump's specifications (220V, single-phase).
- Always disconnect power before performing any maintenance or installation work.
- Do not operate the pump if the power cord or plug is damaged.
- Install the pump in a dry, well-ventilated area, protected from direct weather exposure.
- Ensure proper grounding for electrical connections.
- Do not pump flammable, corrosive, or explosive liquids. This pump is designed for clean water with low sediment content.
- Keep children and unauthorized personnel away from the pump during operation.

3. PRODUCT OVERVIEW AND FEATURES

The Pedrollo JSWM2CX is a self-priming surface water pump designed for domestic and professional applications requiring a 220V single-phase electrical supply. It is particularly recommended for drawing clear water from wells or other sources where the suction depth is less than 9 meters. This pump can also be integrated into a water tank system or used with a pressure booster.

Key features include:

- **Self-Priming Capability:** Efficiently draws water from depths up to 9 meters.
- **Noryl Impeller:** Ensures reliable and quiet operation with an excellent flow rate to pressure ratio.
- **Robust Construction:** Features a cast iron pump body, aluminum lantern, and stainless steel pump base.
- **Efficient Motor:** 0.75 kW, 2900 rpm, IE3 class motor for high efficiency and low power consumption.
- **Integrated Thermal Protection:** For the 220V single-phase motor, protecting the pump from unexpected startups

or overheating.

- **High Flow Rate:** Up to 4.2 cubic meters per hour.
- **Max Head:** Up to 50 HMT (Hydraulic Metre Total).

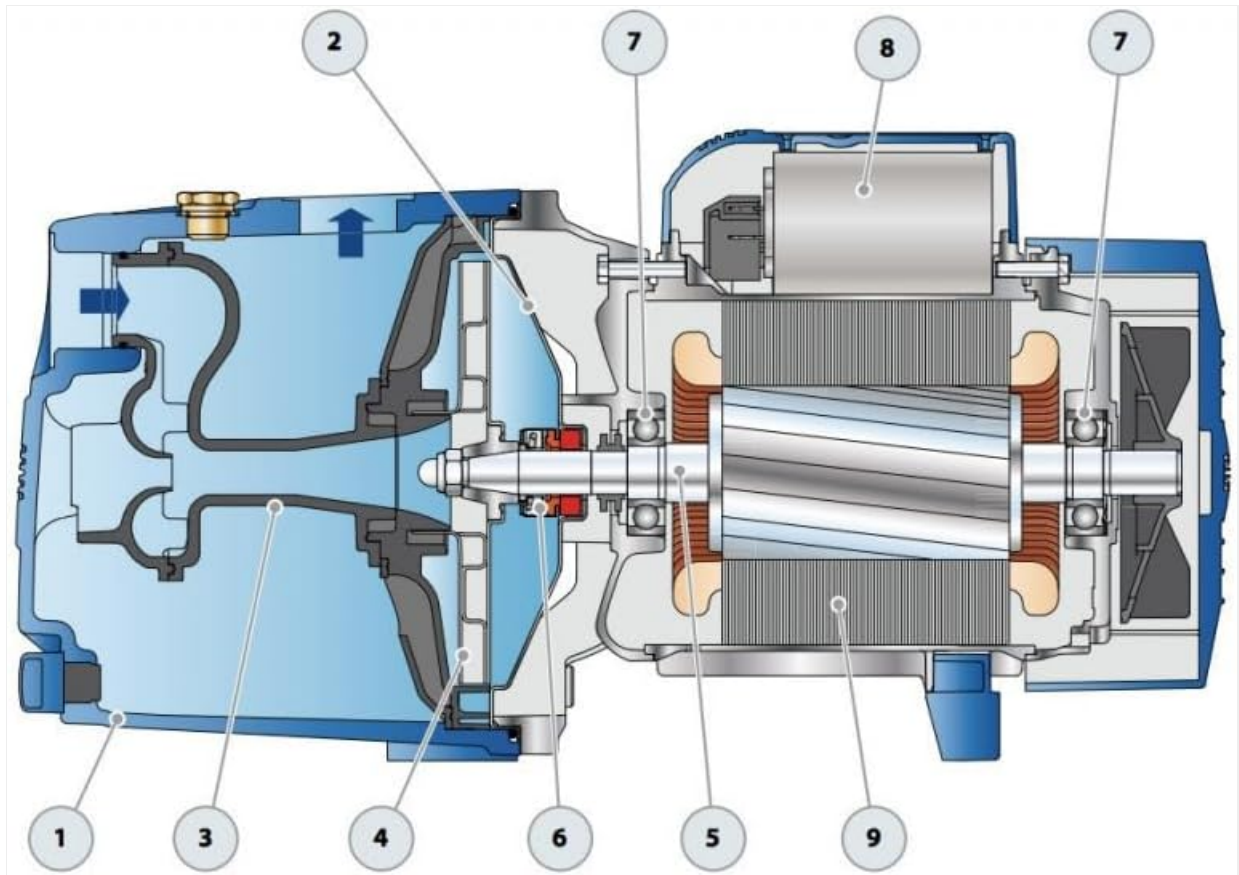


This image displays the Pedrollo JSWM2CX self-priming water pump, featuring its blue cast iron body and electric motor housing.

4. SPECIFICATIONS

Manufacturer	Pedrollo
Model Reference	JSWM2CX
Color	Blue
Material	Cast Iron (Pump Body), Noryl (Impeller, Diffuser/Ejector), Aluminum (Lantern), Stainless Steel (Pump Base, Motor Shaft)
Power Type	Electric Cable
Voltage	220 Volts (AC), Single-phase
Power	0.75 kW
Motor Speed	2900 rpm
Max Flow Rate	4.2 Cubic Meters per Hour
Max Suction Head	9 Meters
Max Service Pressure	6 bar
Protection Index	IPX4
Insulation Class	F
Continuous Service	S1

Motor Class	IE3 (High Efficiency)
Motor Shaft Material	Stainless Steel EN 10088-3 - 1.4104



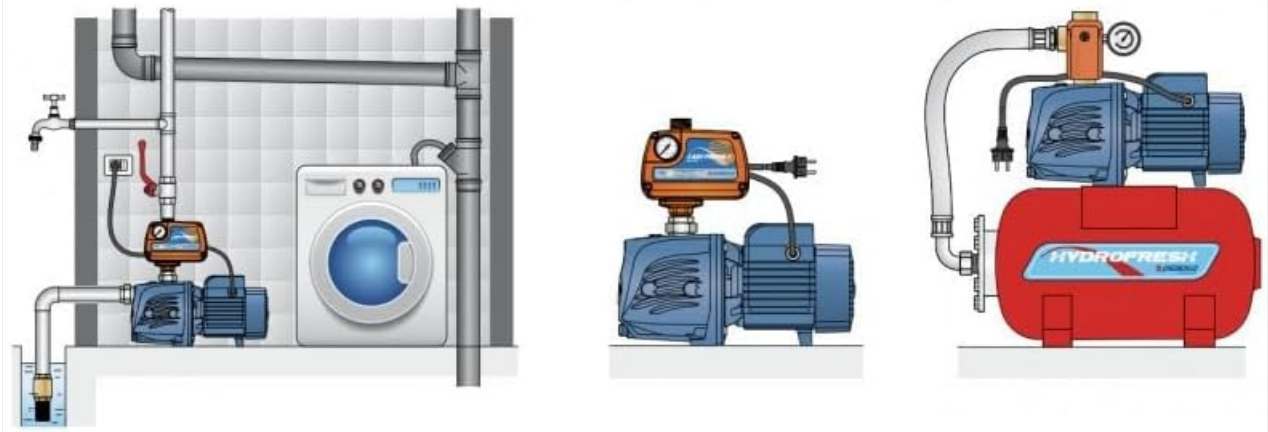
This diagram provides an exploded view of the Pedrollo JSW water pump, highlighting its internal components. Key parts include (1) pump body, (2) impeller, (3) diffuser/ejector, (4) mechanical seal, (5) motor shaft, (6) bearing, (7) motor casing, (8) capacitor, and (9) motor windings. This illustrates the robust construction with a cast iron pump body and Noryl impeller.

5. INSTALLATION AND SETUP

Proper installation is crucial for the pump's performance and longevity. Refer to the diagram below for typical installation examples.

- **Location:** Install the pump in a dry, frost-free, and well-ventilated area. Ensure it is protected from direct sunlight and rain.
- **Mounting:** Secure the pump to a stable, level surface to minimize vibration.
- **Suction Line:** The pump is self-priming for suction depths up to 9 meters. Ensure the suction line is airtight and has a foot valve with a strainer at the end to prevent debris from entering the pump. The diameter of the suction pipe should be adequate for the required flow rate.
- **Delivery Line:** Connect the delivery pipe to the pump outlet. It is recommended to install a check valve and a shut-off valve on the delivery side.
- **Electrical Connection:** Connect the pump to a dedicated 220V single-phase power supply with appropriate circuit protection. Ensure proper grounding. The integrated thermal protection will safeguard the motor.
- **Priming:** Before first use, or if the pump has run dry, fill the pump casing completely with water through the priming port until it overflows. Close the priming port securely.

EXEMPLE D'INSTALLATION



This image presents three common installation examples for the Pedrollo water pump. The first shows a pump drawing water from a well to supply a household system including a washing machine. The second depicts a pump integrated with a pressure switch for automatic operation. The third illustrates a pump connected to a Hydrofresh pressure tank, forming a complete booster system.

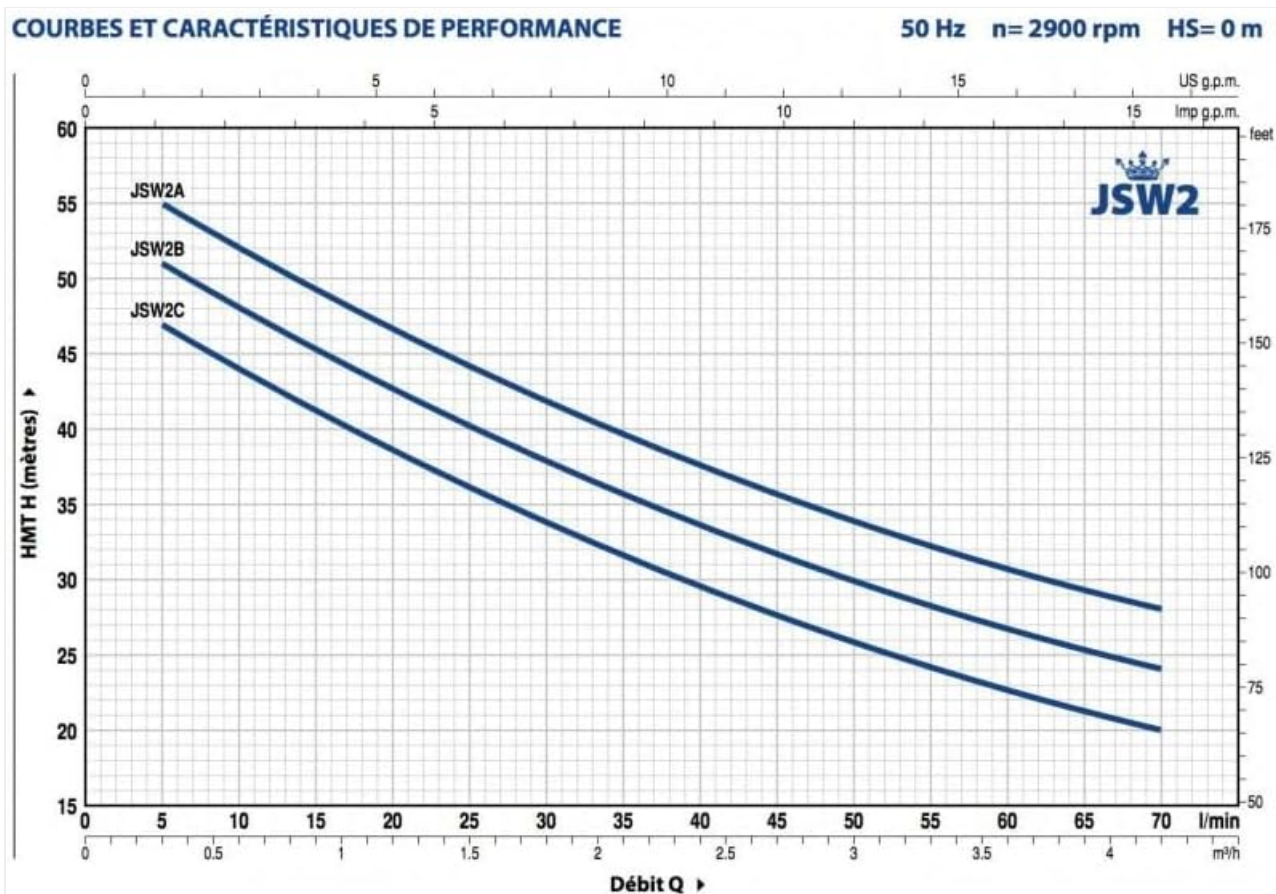
6. OPERATION

The Pedrollo JSWM2CX pump is designed for handling clean liquids with low sediment content. It is suitable for various applications:

- **Pressurized Water Distribution:** Ideal for supplying water under pressure, often in conjunction with a bladder tank.
- **Garden Irrigation:** Provides efficient water supply for garden watering systems.
- **Washing Applications:** Suitable for washing vehicles, terraces, and other surfaces.
- **Sanitary System Supply:** Can be used to feed domestic sanitary installations.
- **Other Specific Applications:** Designed for domestic, agricultural, industrial, and horticultural uses.

Starting the Pump: After ensuring the pump is properly primed and all connections are secure, switch on the power supply. The pump should start operating and deliver water. If the pump does not start or fails to deliver water, refer to the troubleshooting section.

Performance: The pump's performance (flow rate vs. head) can be referenced in the performance curve diagram below.



This graph illustrates the hydraulic performance of the JSW2 series pumps, showing the relationship between flow rate (Débit Q) in liters per minute (l/min) or cubic meters per hour (m³/h) and total head (HMT H) in meters (m) at 50 Hz and 2900 rpm. Different curves represent models JSW2A, JSW2B, and JSW2C, indicating varying head capabilities for a given flow.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the pump's lifespan.

- **Regular Inspection:** Periodically check for leaks, unusual noises, or vibrations.
- **Cleanliness:** Keep the pump and its surroundings clean and free from debris. Ensure the motor's cooling fins are not obstructed.
- **Foot Valve/Strainer:** Inspect and clean the foot valve strainer on the suction line regularly to prevent blockages.
- **Winterization:** In areas subject to freezing temperatures, drain the pump completely to prevent damage from ice expansion. Disconnect the pump from the power supply and open all drain plugs. Store in a dry, frost-free location.
- **Mechanical Seal:** The mechanical seal is a wear part. If persistent leaks occur from the motor side, the seal may need replacement by a qualified technician.

8. TROUBLESHOOTING

Before contacting technical support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Pump does not start.	No power supply; tripped circuit breaker; motor thermal protection activated; seized impeller.	Check power connection and circuit breaker; allow motor to cool down; inspect impeller for obstructions and manually turn if possible (with power off).

Pump runs but delivers no water or low flow.	Pump not primed; air leak in suction line; clogged foot valve/strainer; suction lift too high; impeller damaged.	Re-prime the pump; check all suction line connections for leaks; clean foot valve strainer; ensure suction depth is within limits (max 9m); inspect impeller.
Excessive noise or vibration.	Air in the pump/suction line; cavitation; loose mounting; worn bearings.	Ensure pump is fully primed and suction line is airtight; check for obstructions in suction; tighten mounting bolts; contact service for bearing inspection.
Water leaking from pump.	Loose connections; damaged mechanical seal; cracked casing.	Tighten all pipe connections; mechanical seal replacement by qualified personnel; inspect casing for damage.

For issues not listed or if solutions do not resolve the problem, please contact a qualified technician or Pedrollo customer support.

9. WARRANTY AND SUPPORT

Specific warranty details are typically provided with your purchase documentation. Please refer to the warranty card or contact your retailer for information regarding the warranty period and terms.

For technical assistance, spare parts, or service, please contact your authorized Pedrollo dealer or the manufacturer's customer service department. When contacting support, please have your pump's model number (JSWM2CX) and serial number (if applicable) readily available.





Manufacturer: Pedrollo

Model: JSWM2CX



Related Documents - JSWM2CX

	<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 STEADYPRES: Variatore Elettronico di Frequenza per Pompe</p> <p>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.</p>

 <p>JSW JET self-priming pumps</p> <p>Technical specifications, performance curves, dimensions, materials, and application data for JSW JET self-priming pumps by Pedrollo. Suitable for domestic, civil, and industrial use.</p>	<p>JSW JET Self-Priming Pumps: Performance, Technical Data, and Materials</p> <p>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.</p>
 <p>PLURIJET 80-100 self-priming multi-stage pump</p> <p>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.</p>	<p>Pedrollo PLURIJET 80-100 & 80X-100X Self-Priming Multi-Stage Pumps Datasheet</p> <p>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.</p>
 <p>TRITUS submersible pump with grinder</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 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>EP Electronic protection device</p> <p>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.</p>	<p>Pedrollo EP Electronic Protection Device - User Manual & Datasheet</p> <p>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.</p>



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PEDROLLO PUMPAUTOMAT PRODUKTINFORMATION Tank typ Gummiblsa

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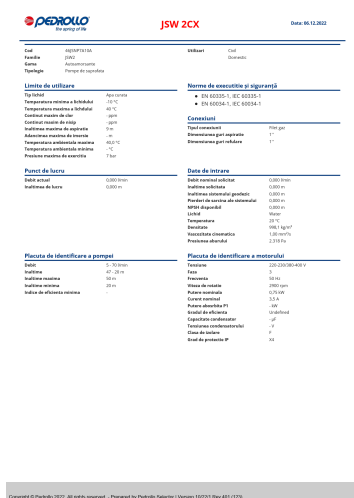
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