

## Pedrollo 3CRm80

# Pedrollo 3CRm80 Multi-stage Centrifugal Water Pump User Manual

Model: 3CRm80

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Pedrollo 3CRm80 Multi-stage Centrifugal Water Pump. Please read this manual thoroughly before installation and use, and retain it for future reference.

The Pedrollo 3CRm80 is a single-phase, multi-stage centrifugal pump designed for handling clean water and non-aggressive liquids. It is suitable for domestic applications such as water distribution in pressure systems and garden irrigation.

## 2. SAFETY INFORMATION

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

- Ensure the pump is installed in a well-ventilated, enclosed area, protected from adverse weather conditions.
- Verify that the electrical supply matches the pump's voltage requirements (110V or 220V, 60Hz).
- Disconnect power before performing any installation, maintenance, or repair work.
- Do not operate the pump with flammable or corrosive liquids.
- Protect the pump from freezing temperatures.
- Ensure proper grounding of the electrical connection.

## 3. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	3CRm80
Brand	Pedrollo
Type	Multi-stage Centrifugal Water Pump

Feature	Specification
Power	0.6 HP
Voltage	110V or 220V AC, 60Hz (Single Phase)
Maximum Head	Up to 120 ft (36.5 meters)
Maximum Flow Rate	Up to 1260 GPH (4769 liters/hour)
Inlet/Outlet Size	1 inch x 1 inch
Material	Stainless Steel
Item Weight	19 pounds (approx. 8.6 kg)
Dimensions (Package)	18 x 12 x 8 inches (approx. 45.7 x 30.5 x 20.3 cm)
UPC	722777873303



**Figure 1:** Pedrollo 3CRm80 Multi-stage Centrifugal Water Pump. This image displays the pump's stainless steel body and blue motor housing.



**Figure 2:** Performance Curve for Pedrollo CR series pumps. This graph illustrates the relationship between pump head (in meters and feet) and flow rate (in l/min and US g.p.m.) for various models, including the 3CRm80.

## 4. SETUP AND INSTALLATION

### 4.1 Location

Install the pump in a dry, well-ventilated area, protected from direct sunlight, rain, and freezing temperatures. Ensure sufficient space around the pump for ventilation and maintenance.

### 4.2 Electrical Connection

- The pump operates on single-phase 110V or 220V AC, 60Hz. Verify your power supply matches the pump's requirements.
- Ensure the electrical circuit is protected by a suitable circuit breaker or fuse.
- Connect the pump to a properly grounded electrical outlet.
- The motor includes a thermal overload protector.

### 4.3 Plumbing Connection

- Connect 1-inch pipes to both the inlet and outlet ports of the pump.
- Use appropriate sealants (e.g., PTFE tape) on threaded connections to prevent leaks.
- Ensure all connections are tight but do not overtighten.
- Install a foot valve with a strainer on the suction line if drawing water from a well or tank to prevent debris from entering the pump and to maintain prime.

### 4.4 Priming the Pump

Before initial operation, the pump must be primed. Remove the priming plug (usually located on the top of the pump

casing) and fill the pump casing completely with clean water until it overflows. Replace the priming plug securely.

## 5. OPERATING INSTRUCTIONS

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1. Ensure the pump is properly installed and primed.
2. Verify all plumbing connections are secure and leak-free.
3. Connect the pump to the appropriate electrical power supply.
4. Turn on the power. The pump should start operating and begin to move water.
5. Monitor the pump for any unusual noises or vibrations during initial operation.
6. If the pump fails to deliver water after a short period, turn off the power, re-prime the pump, and check for any obstructions in the suction line.

### Applications

The Pedrollo 3CRm80 pump is suitable for:

- Irrigation systems for gardens and allotments.
- Water supply systems for domestic use.
- Integration with small and medium-sized pressure sets.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your pump.

### 6.1 General Checks

- Periodically inspect the pump for any signs of leaks, corrosion, or damage.
- Ensure all electrical connections are secure and free from moisture.
- Check the suction line strainer (if installed) for blockages and clean as necessary.

### 6.2 Winterization

If the pump is installed in an area subject to freezing temperatures, it must be drained to prevent damage:

1. Disconnect power to the pump.
2. Open any drain plugs on the pump casing and plumbing lines.
3. Allow all water to drain completely.
4. Store the pump in a warm, dry place if possible, or ensure it is thoroughly drained and protected from freezing.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; motor thermal overload activated.	Check power supply; reset circuit breaker; allow motor to cool down.
Pump runs but no water is delivered	Pump not primed; air leak in suction line; clogged suction strainer; insufficient water supply.	Re-prime the pump; check suction line connections; clean strainer; ensure adequate water source.

Problem	Possible Cause	Solution
Reduced flow or pressure	Partial blockage in plumbing; worn impeller; air in system.	Inspect and clear plumbing; consult a qualified technician for impeller inspection; re-prime.
Excessive noise or vibration	Cavitation (air in pump); loose mounting; foreign object in pump.	Ensure pump is fully primed and suction is clear; tighten mounting bolts; disconnect power and inspect pump for obstructions ( <i>consult technician if unsure</i> ).

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your authorized Pedrollo dealer. Keep your purchase receipt as proof of purchase.

Protection plans may be available for extended coverage. Please check with your retailer for details on 3-Year or 4-Year protection plans.



Manufacturer: Pedrollo





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### Related Documents - 3CRm80

	<p><a href="#">Pedrollo UP Series Multi-stage Submersible Pumps: Performance, Specifications, and Installation</a></p> <p>Detailed information on Pedrollo UP Series multi-stage submersible pumps, including performance range, application limits, construction details, characteristic curves, dimensions, and installation guidelines. Ideal for domestic, civil, and agricultural use.</p>
	<p><a href="#">Pedrollo PRESFLO MULTI Automatic Control Device - Technical Specifications</a></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><a href="#">Pedrollo TOP MULTI-TECH &amp; TOP MULTI-EVOTECH Automatic Submersible Water Pumps - Operation Manual</a></p> <p>This document provides operational guidance for the Pedrollo TOP MULTI-TECH and TOP MULTI-EVOTECH automatic submersible multi-stage water pumps. It covers general information, operation, protections, and typical installation advice.</p>
	<p><a href="#">Pedrollo TOP MULTI-TECH / TOP MULTI-EVOTECH Automatic Submersible Water Pump Operation Manual</a></p> <p>This document provides operational instructions for the Pedrollo TOP MULTI-TECH and TOP MULTI-EVOTECH automatic submersible multi-stage water pumps. It covers general information, operating principles, installation advice, and protection features for optimal performance and longevity.</p>
	<p><a href="#">Pedrollo TOP MULTI-TECH Automatic Submersible Pumps: Specifications &amp; Performance</a></p> <p>Detailed technical specifications, performance curves, installation guide, and features for the Pedrollo TOP MULTI-TECH series of multi-stage automatic submersible pumps, designed for clean water applications.</p>
	<p><a href="#">Pedrollo TURBO Series Centrifugal Pumps: Technical Specifications, Performance, and Applications</a></p> <p>Detailed technical specifications, performance curves, dimensions, and application information for the Pedrollo TURBO series of two-stage centrifugal electric pumps, designed for clean water applications in domestic, civil, agricultural, and industrial sectors.</p>