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TRUPER CPB-180

Truper CPB-180 Automatic Water Pump Pressure Control

MODEL: CPB-180

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Truper CPB-180 Automatic Water Pump Pressure Control. Please read these instructions carefully before use and retain them for future reference. This device is designed to automatically activate and deactivate water pumps based on water flow, protecting them from dry running.

Safety Information

- Always disconnect power before performing any installation, maintenance, or repair work.
- Installation must be performed by qualified personnel in accordance with local electrical and plumbing codes.
- Ensure the device is protected from freezing temperatures.
- Do not operate the pump control if it is damaged.
- This device is designed for clean water applications only.

2. Product Overview

The Truper CPB-180 is an automatic pressure control unit for water pumps. It features a flow sensor to prevent dry running and LED indicators for operational status.



Figure 2.1: Front view of the Truper CPB-180 Automatic Water Pump Pressure Control. The unit is orange and gray, with a control panel on the front showing LED indicators and a reset button. Electrical cables extend from the side.

Key Features:

- Automatic activation upon detecting water flow.
- Flow sensor protects the pump against damage caused by dry running.
- Compatible with peripheral, self-priming peripheral, centrifugal, jet-type, pressurizing, and multi-stage pressurizing pumps from 1/2 to 1 1/2 HP (excluding submersible pumps).
- LED indicator lights for status monitoring.
- Working pressure depends on the pump with which it is used.

Components and Connections:

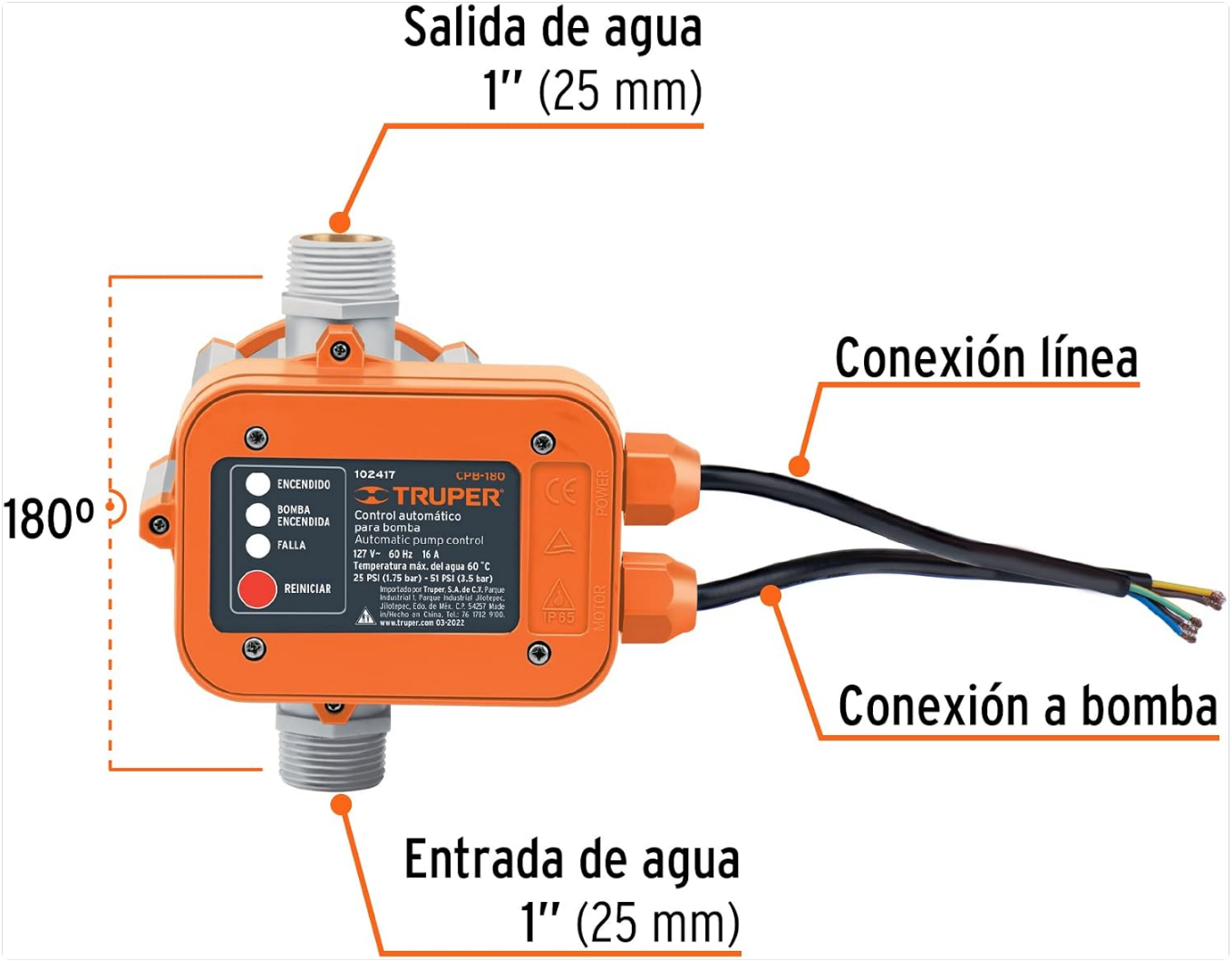

Figure 2.2: Diagram illustrating the key components and connection points of the CPB-180. Labels indicate the 1" (25 mm) water inlet and outlet, the electrical line connection, and the electrical pump connection. The control panel with LED indicators (On, Pump On, Fault) and a Reset button is also visible.

- **Water Inlet (1" / 25 mm):** Connects to the water supply.
- **Water Outlet (1" / 25 mm):** Connects to the pump's suction side.
- **Line Connection:** Electrical input for power supply (127V~, 60 Hz, 16 A).
- **Pump Connection:** Electrical output to power the water pump.
- **LED Indicators:**
  - **Encendido (On):** Indicates the unit is powered.
  - **Bomba Encendida (Pump On):** Indicates the pump is running.
  - **Falla (Fault):** Indicates an error condition, often due to dry running.
- **Reiniciar (Reset) Button:** Used to clear fault conditions and restart the unit.

3. Specifications

Attribute	Value
Manufacturer	Truper SA de CV
Part Number	CPB-180

Attribute	Value
Color	Orange
Style	Submersible (Note: Product description states 'except submersible pumps' for compatibility, this 'Style' might refer to the internal component's rating or a general category, not the pump type it controls.)
Material	Metal Plastic
Power Source	Corded Electric
Voltage	127 Volts
Included Components	As indicated on packaging
Batteries Required?	No
Weight	1.28 Kilograms
Package Dimensions	23.3 x 17.8 x 16.9 cm
Product Model Number	CPB-180
ASIN	B0BS9X8X6F
First Available on Amazon.com.mx	January 13, 2023
Brand	TRUPER

Note: The 'Style: Submersible' specification might refer to an internal component rating or a general product category, and should not be confused with the compatibility statement that excludes submersible pumps for the control unit's application.

4. Setup and Installation

Proper installation is crucial for the safe and effective operation of the CPB-180. Refer to Figure 2.2 for connection points.

1. **Mounting:** Securely mount the CPB-180 in a vertical position, ensuring the water inlet and outlet are oriented correctly as shown in Figure 2.2. The unit should be protected from direct sunlight, rain, and freezing temperatures.
2. **Water Connections:**
    - Connect the water supply line to the **Water Inlet (1" / 25 mm)**.
    - Connect the pump's suction side to the **Water Outlet (1" / 25 mm)**.
    - Ensure all plumbing connections are watertight using appropriate sealants and tools.
3. **Electrical Connections:**
    - Ensure the main power supply is OFF before making any electrical connections.
    - Connect the main power supply cable to the **Line Connection** terminals. The unit operates on 127V~, 60 Hz.
    - Connect the water pump's power cable to the **Pump Connection** terminals.
    - Verify all electrical connections are secure and properly insulated.

- The unit is designed for pumps from 1/2 to 1 1/2 HP. Do not exceed the maximum current rating of 16 A.

4. **Initial Fill:** Before powering on, ensure the pump and the CPB-180 unit are completely filled with water to prevent dry running upon startup.

5. Operating Instructions

Once installed and filled with water, the CPB-180 operates automatically.

1. **Power On:** Turn on the main power supply to the CPB-180. The **Encendido (On)** LED will illuminate, indicating the unit is receiving power.
2. **Automatic Operation:** The CPB-180 will automatically start the pump when it detects water flow (e.g., when a faucet is opened). The **Bomba Encendida (Pump On)** LED will illuminate when the pump is running.
3. **Automatic Shut-off:** The unit will automatically stop the pump when water flow ceases (e.g., when a faucet is closed). The **Bomba Encendida (Pump On)** LED will turn off.
4. **Dry Running Protection:** If the unit detects a lack of water flow while the pump is attempting to run, it will activate the dry running protection, stopping the pump and illuminating the **Falla (Fault)** LED.
5. **Resetting a Fault:** If the **Falla (Fault)** LED is illuminated, press the **Reiniciar (Reset)** button to clear the fault and attempt to restart the pump. Ensure the water supply is restored before resetting.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your CPB-180.

- **Cleaning:** Periodically clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect all water and electrical connections for leaks, corrosion, or damage. Tighten any loose connections.
- **Winterization:** In areas prone to freezing, disconnect the unit and drain all water from it and the connected pump and pipes to prevent damage from ice expansion. Store the unit in a dry, frost-free location.
- **Flow Sensor Check:** Ensure the water inlet is free from debris that could obstruct the flow sensor.

7. Troubleshooting

This section addresses common issues you might encounter with your CPB-180.

Problem	Possible Cause	Solution
Unit does not power on (No 'Encendido' LED).	No power supply; loose electrical connection.	Check power outlet and electrical connections. Ensure circuit breaker is not tripped.
Pump does not start when water is flowing.	Insufficient water flow; pump issue; 'Falla' LED illuminated.	Check water supply. Inspect pump for issues. If 'Falla' LED is on, press 'Reiniciar' button.
'Falla' LED is illuminated.	Dry running detected (no water); air in the system.	Ensure water supply is available. Prime the pump if necessary to remove air. Press 'Reiniciar' button.

Problem	Possible Cause	Solution
Pump runs continuously without water flow.	Leak in the system; faulty flow sensor.	Check for leaks in the plumbing system. If no leaks, contact qualified service personnel.

8. Warranty and Support

TRUPER products are manufactured to high-quality standards.



Figure 8.1: Product packaging for the Truper CPB-180, highlighting key features and indicating a 1-year warranty.

- **Warranty:** This product typically comes with a 1-year warranty against manufacturing defects. Please refer to the warranty card included with your product or contact TRUPER customer service for specific terms and conditions.
- **Customer Support:** For technical assistance, spare parts, or warranty claims, please contact TRUPER customer service. Contact information can usually be found on the product packaging or the official TRUPER website.

For more information, visit the officialTRUPER Store on Amazon.

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