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Truper PRES-1

TRUPER PRES-1 1 HP Pressure Booster Pump User Manual

Model: PRES-1 | Brand: Truper

1. Introduction

Thank you for choosing the TRUPER PRES-1 1 HP Pressure Booster Pump. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new pump. Please read this manual thoroughly before using the product and keep it for future reference.
The TRUPER PRES-1 is a powerful 1 HP pressurizing pump designed to deliver reliable and efficient performance for above-ground water systems. Its compact design and durable Acrylonitrile Butadiene Styrene (ABS) construction ensure long-lasting use and a steady, consistent water supply with a maximum flow rate of 53 liters per minute.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury or property damage.

- **Electrical Safety:** Ensure the pump is connected to a properly grounded 127 Volt electrical outlet. Do not operate the pump with a damaged cord or plug. Keep all electrical connections dry.
- **Water Safety:** Do not operate the pump dry. Ensure the pump is fully primed with water before starting. Protect the pump from freezing temperatures.
- **Placement:** Install the pump on a stable, level surface. Ensure adequate ventilation around the motor.
- **Maintenance:** Disconnect power before performing any maintenance or service. Only qualified personnel should perform repairs.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
- **Children and Pets:** Keep children and pets away from the pump during operation.

3. Product Overview

The TRUPER PRES-1 Pressure Booster Pump is designed for efficient water pressurization. Below are key components and an overview of its operation.



Figure 3.1: TRUPER PRES-1 1 HP Pressure Booster Pump. This image shows the overall design of the pump, featuring its orange and black housing, the electronic control unit, and the motor.

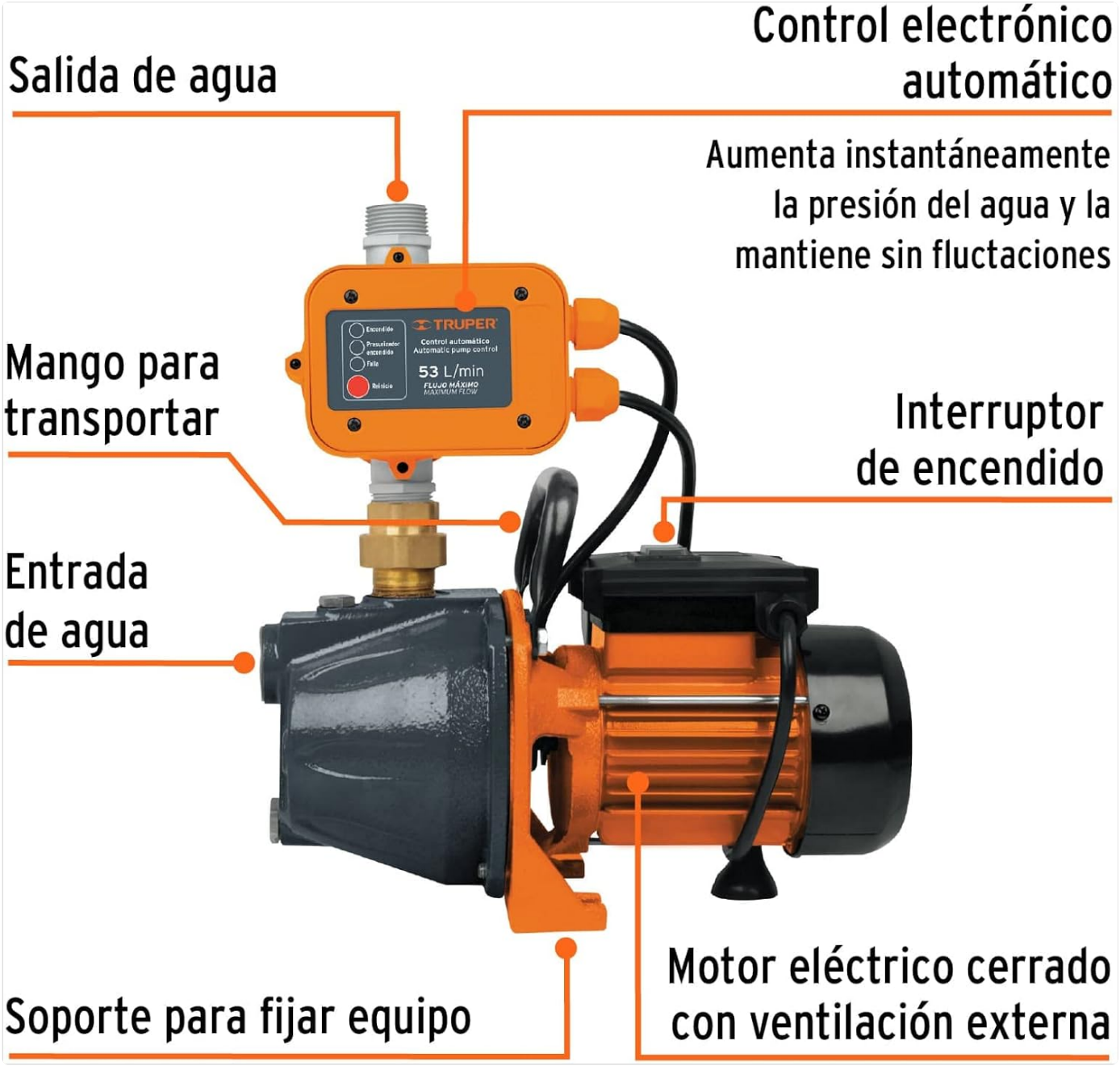


Figure 3.2: Labeled Components of the TRUPER PRES-1 Pump. Key components include the electronic automatic control, water outlet, handle for transport, power switch, water inlet, closed electric motor with external ventilation, and support for fixing the equipment.

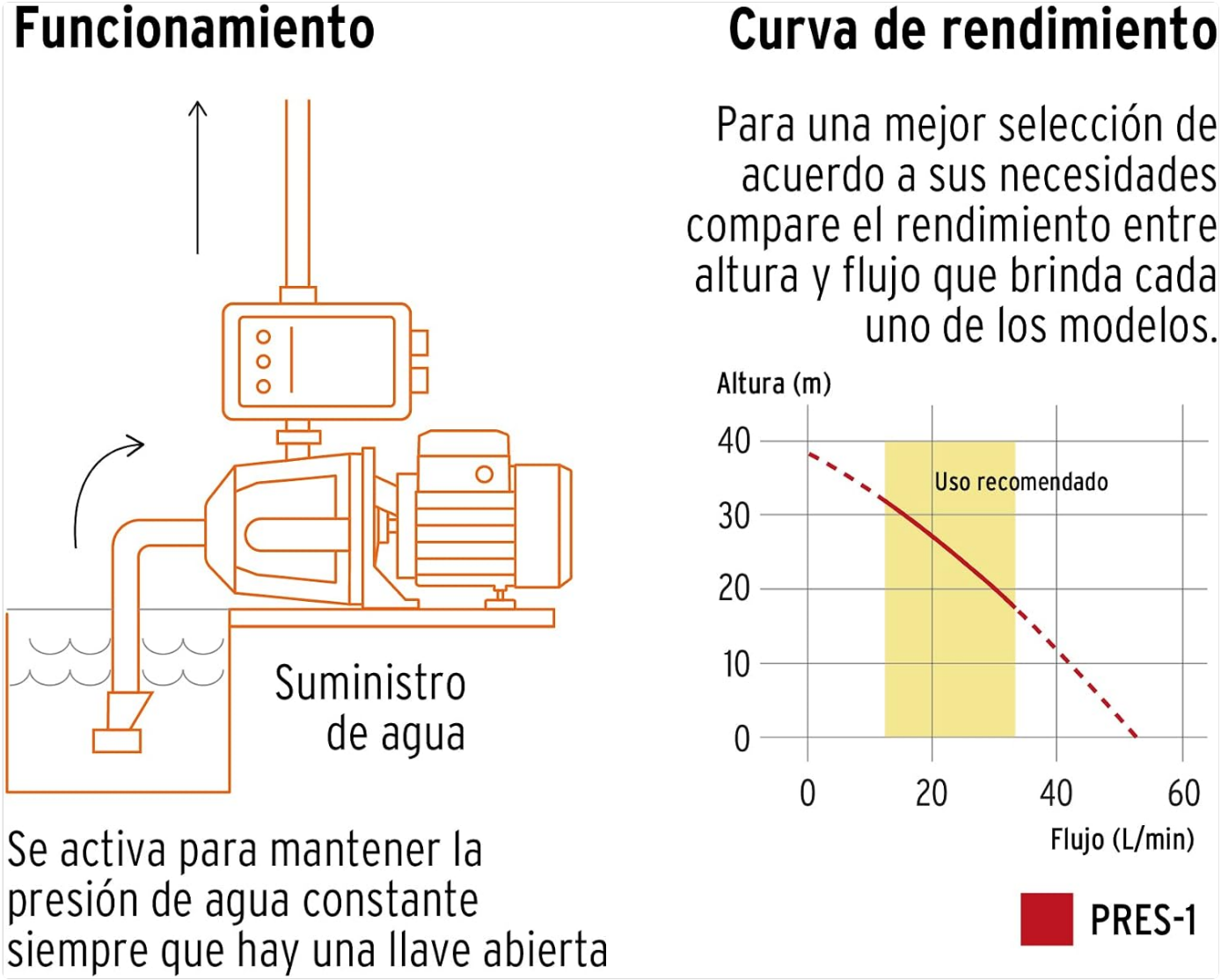


Figure 3.3: Operation Diagram and Performance Curve. The diagram illustrates how the pump draws water from a supply and activates to maintain constant water pressure when a faucet is open. The performance curve shows the relationship between lifting height (m) and flow (L/min) for the PRES-1 model, indicating the recommended usage range.

Product Features:

- **Powerful Motor:** 1 HP motor for reliable and efficient performance.
- **Compact Design:** Dimensions of 14.17"L x 9.84"W x 13.39"H for easy installation.
- **Maximum Flow Rate:** Up to 53 liters per minute for consistent water supply.
- **Durable Material:** Constructed from Acrylonitrile Butadiene Styrene (ABS) for longevity.
- **Automatic Electronic Control:** Increases pressure instantly and maintains it without fluctuations.

4. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your TRUPER PRES-1 pump. It is recommended that installation be performed by a qualified professional.

1. **Choose a Location:** Select a dry, well-ventilated area, protected from direct sunlight, rain, and freezing temperatures. The pump is designed for above-ground use.
2. **Secure Mounting:** Place the pump on a firm, level surface. Use the integrated support base to secure the pump, minimizing vibration and noise during operation.
3. **Water Connections:**
    - Connect the water inlet to your water source (e.g., cistern, main water line). Ensure all connections are watertight to

prevent leaks and air intake.

- Connect the water outlet to your household plumbing system. Use appropriate pipe fittings and sealants.
- It is advisable to install a check valve on the suction line to prevent water backflow and ensure the pump remains primed.

4. **Electrical Connection:**
    - Ensure the power supply matches the pump's requirements (127 Volts).
    - Plug the pump into a grounded electrical outlet. Avoid using extension cords if possible; if necessary, use a heavy-duty outdoor-rated cord.
5. **Priming the Pump:** Before first use, the pump must be primed. Open the priming port (if available) or a faucet on the discharge side and fill the pump casing with water until it overflows. Close the port/faucet.



Figure 4.1: Example of TRUPER PRES-1 pump installed in an outdoor setting, connected to a water system. Note the robust piping and secure placement.



Figure 4.2: Another view of the TRUPER PRES-1 pump installation, highlighting the electrical connections and the pump's compact footprint.



Figure 4.3: Top-down view of the TRUPER PRES-1 pump, illustrating the plumbing connections for water intake and output.

5. Operating Instructions

The TRUPER PRES-1 pump features an automatic electronic control for hassle-free operation.

1. **Initial Start-up:** After ensuring the pump is properly installed and primed, turn on the power switch. The pump will start and build pressure in the system.
2. **Automatic Operation:** The pump is designed to automatically turn on when water is drawn (e.g., opening a faucet, flushing a toilet) and turn off when water flow stops. This maintains constant pressure in your water system.
3. **Monitoring:** The electronic control unit has indicator lights (e.g., "Encendido" - On, "Presurizador encendido" - Pressurizer On, "Falla" - Fault) to show the pump's status. Refer to Figure 3.2 for visual reference.
4. **Flow Rate:** The pump can deliver a maximum flow rate of 53 liters per minute, ensuring sufficient water pressure for multiple simultaneous uses.

Important: Avoid running the pump dry. If the water source runs out, the pump's automatic control should shut it off to prevent damage. However, prolonged dry running can cause severe damage.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your TRUPER PRES-1 pump. Always disconnect power before performing any maintenance.

- **Regular Inspection:** Periodically check the pump and connections for any signs of leaks, corrosion, or damage. Tighten any loose fittings.
- **Cleanliness:** Keep the pump area clean and free of debris to ensure proper ventilation for the motor.
- **Winterization:** If the pump is installed in an area subject to freezing temperatures, it must be drained and protected during winter months to prevent damage from ice expansion.
    - Disconnect power.
    - Drain all water from the pump and connected pipes.
    - Store the pump in a warm, dry place if possible, or insulate it thoroughly.
- **Professional Service:** For any complex issues or internal repairs, contact a qualified pump technician. Do not attempt to disassemble the motor or electronic control unit yourself.

7. Troubleshooting

This section provides solutions to common issues you might encounter with your TRUPER PRES-1 pump. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Pump does not start.	No power; tripped circuit breaker; motor overload; pump not primed.	Check power connection and circuit breaker. Allow motor to cool if overloaded. Ensure pump is fully primed.
Low or no water pressure.	Insufficient water supply; air in the system; clogged inlet/outlet; leaks in plumbing.	Check water source. Re-prime the pump. Inspect and clear any blockages. Check all connections for leaks.
Pump runs continuously.	Leak in the system; faulty pressure switch/sensor; pump running dry.	Check for leaks in pipes or fixtures. Inspect the pressure sensor. Ensure continuous water supply.
Excessive noise or vibration.	Loose mounting; air in the system; foreign object in pump; worn bearings.	Securely mount the pump. Re-prime the pump. Inspect for obstructions (disconnect power first). Contact service for worn parts.

8. Specifications

Feature	Detail
Brand	Truper
Model Number	PRES-1
Power Source	Electric (1 HP Motor)
Voltage	127 Volts
Material	Acrylonitrile Butadiene Styrene (ABS)
Style	Above Ground
Product Dimensions (L x W x H)	14.17" x 9.84" x 13.39"
Item Weight	10.6 Kilograms (approx. 23.3 pounds)
Maximum Flow Rate	53 Liters Per Minute
Maximum Lifting Height	124.6 Feet
Color	Black

9. Warranty and Support

Truper products are manufactured to high-quality standards and are warranted against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Truper website.

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a defect, please contact Truper customer support. Have your product model number (PRES-1) and purchase information ready when contacting support.

For the latest information and support resources, please visit the Truper Store on Amazon.

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