Truper HIDR-1/2X24

TRUPER HIDR-1/2X24 Jet Pump / Tank System User Manual

Model: HIDR-1/2X24

Product Overview

The TRUPER HIDR-1/2X24 is a 1/2 HP hydropneumatic pump and tank system designed to increase and maintain constant water pressure in residential and light industrial applications. It features a 24-liter tank and is capable of supplying water to multiple outlets simultaneously.



Truper HIDR-1/2X24 Jet Pump / Tank System, an orange horizontal pressure tank with a silver pump assembly mounted on top. A flexible metal hose connects the pump to the tank. A pressure gauge is visible on the pump assembly.

Key Components

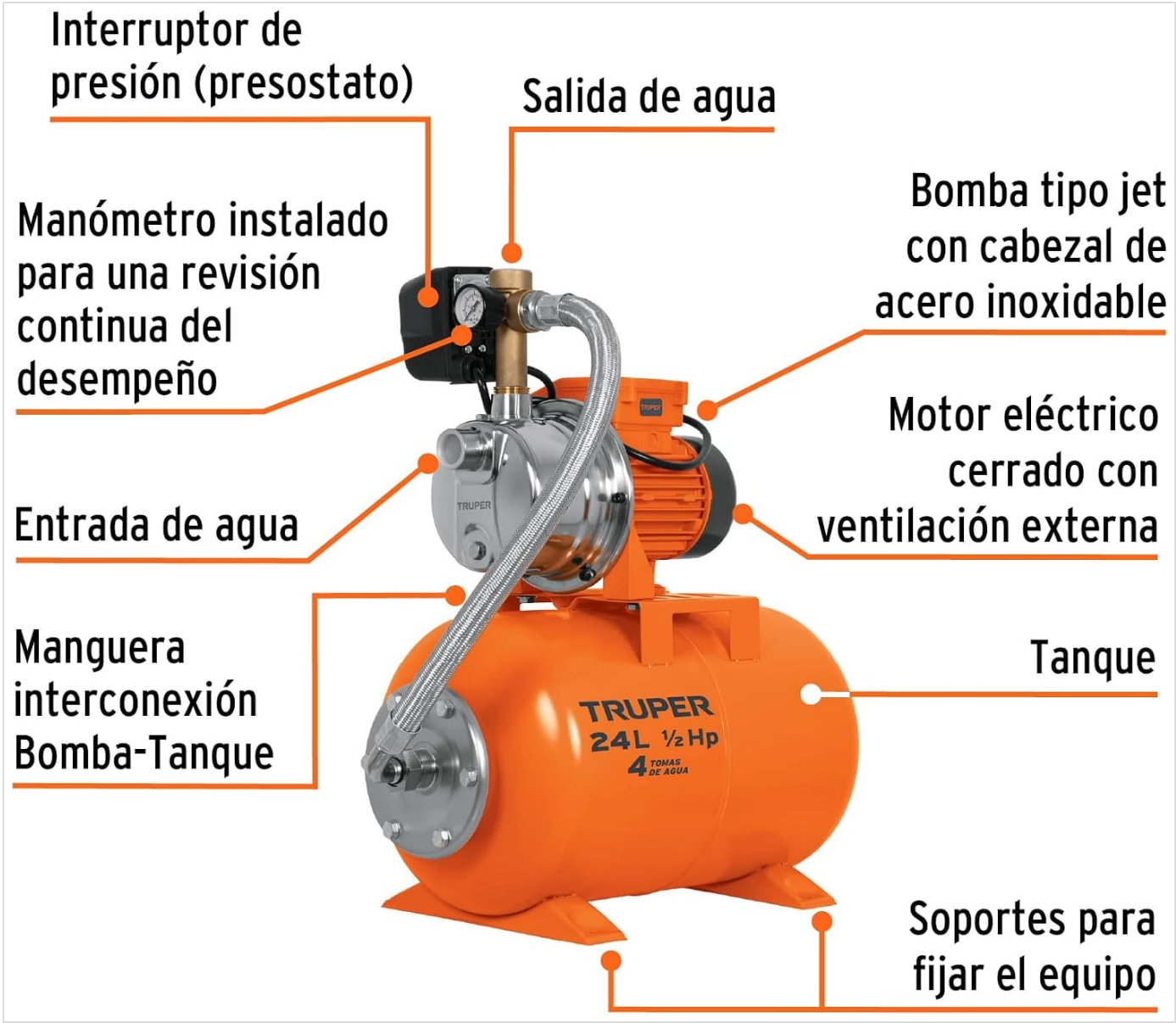


Diagram illustrating the components of the Truper HIDR-1/2X24 Jet Pump / Tank System. Labels point to the pressure switch, water outlet, pressure gauge for continuous performance monitoring, water inlet, pump-tank interconnection hose, jet pump with stainless steel head, closed electric motor with external ventilation, tank, and equipment mounting supports.

- **Pressure Switch:** Automatically controls pump operation based on pressure.
- **Water Outlet:** Connection point for the pressurized water supply.
- **Pressure Gauge:** Provides continuous monitoring of system pressure.
- **Jet Pump with Stainless Steel Head:** The main pumping unit.
- **Closed Electric Motor with External Ventilation:** Powers the pump.
- **Water Inlet:** Connection point for the water source.
- **Pump-Tank Interconnection Hose:** Connects the pump to the pressure tank.
- **Tank:** Stores pressurized water and helps maintain constant pressure.
- **Equipment Mounting Supports:** Base for securing the unit.

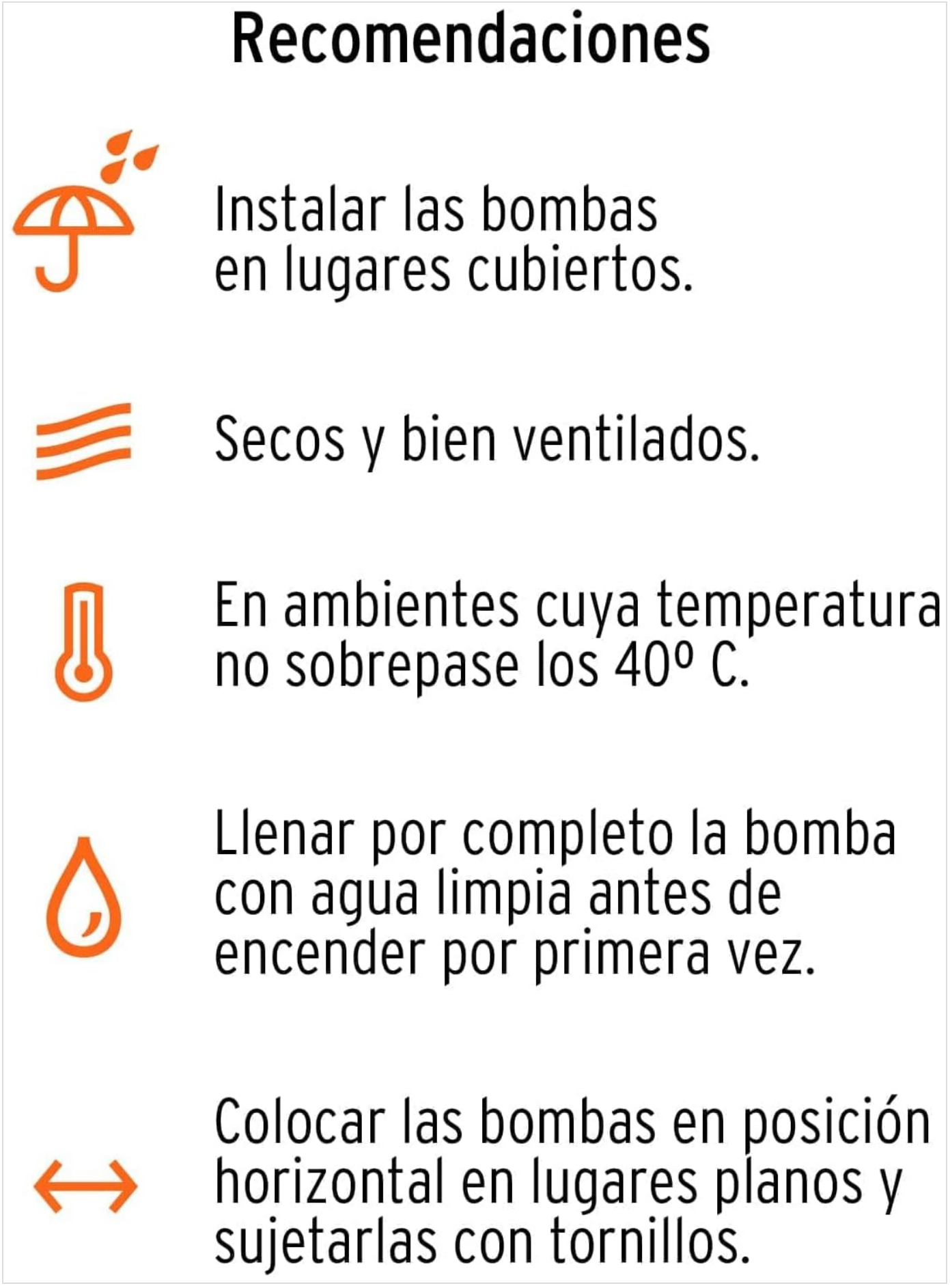
Technical Specifications

Brand	Truper
Model Number	HIDR-1/2X24

Power Source	Electric
Voltage	120 Volts
Maximum Flow Rate	11 Gallons Per Minute
Tank Capacity	24 Liters (6 Gallons)
Horsepower	1/2 HP
Material	Aluminum, Cast Iron, Polypropylene (PP), Stainless Steel
Item Weight	35.2 pounds
Product Dimensions	22.76 x 12.13 x 21.5 inches

Installation and Setup

Proper installation is crucial for the optimal performance and longevity of your TRUPER HIDR-1/2X24 system. Follow these recommendations:



An infographic listing recommendations for the pump's installation and use, including placement, environmental conditions, and initial priming.

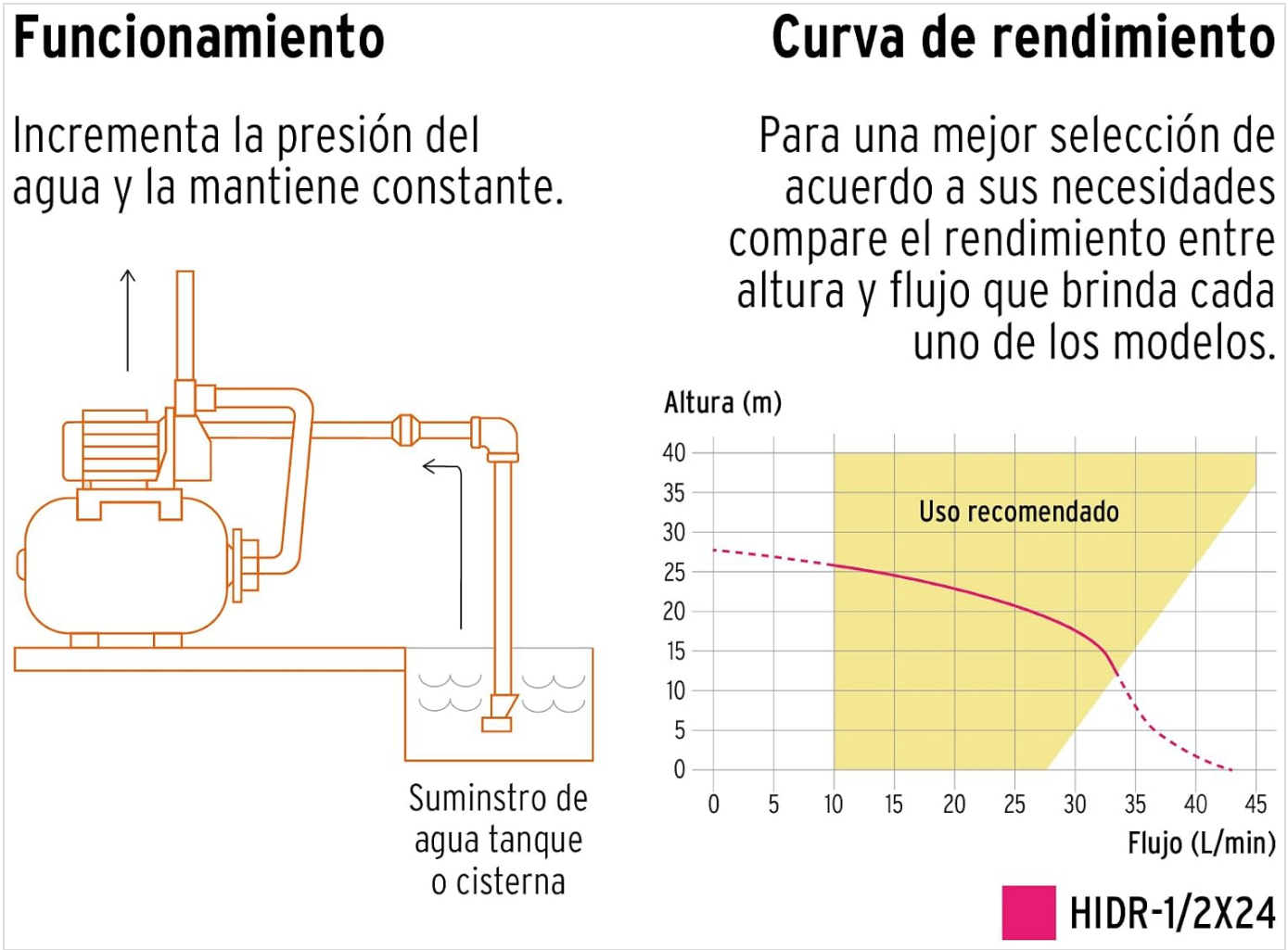
- **Location:** Install the pump in covered locations to protect it from the elements.
- **Environment:** Ensure the installation area is dry and well-ventilated. The ambient temperature should not exceed

40° C (104° F).

- **Priming:** Completely fill the pump with clean water before turning it on for the first time. This is essential to prevent dry running and damage.
- **Positioning:** Place the pump horizontally on a flat, stable surface.
- **Securing:** Secure the unit to the surface using screws through the designated mounting supports to prevent movement and vibration.
- **Leak Check:** Before installation, correct any leaks or drips in faucets, pipes, and toilet fittings in your water system. This ensures efficient operation of the hydropneumatic system.

Operation

The TRUPER HIDR-1/2X24 system operates by drawing water from a supply tank or cistern and then increasing its pressure to deliver a constant flow throughout your plumbing system.



Two diagrams: one showing the operational flow of the pump system, drawing water from a cistern and increasing pressure for distribution, and another showing a performance curve graph plotting height (m) against flow (L/min), indicating recommended use and the performance of the HIDR-1/2X24 model.

Once properly installed and primed, the pump will automatically activate when water pressure drops below a set point and deactivate when the desired pressure is reached, ensuring a consistent water supply.

Performance Curve

The performance curve illustrates the relationship between the height (head) the pump can lift water and the flow rate it can deliver. For optimal selection and understanding of your system's capabilities, refer to the provided performance curve to compare the height and flow rate for the HIDR-1/2X24 model.

Maintenance

Regular maintenance ensures the longevity and efficient operation of your hydropneumatic pump system. Key maintenance tasks include:

- **Air Pressure Check:** Periodically check the air pressure in the tank's air sensor. If the pump starts cycling rapidly (turning on for a few seconds and then off), it may indicate low air pressure in the tank.
- **Recharging Air Pressure:** To recharge the air pressure, first turn off the pump and drain all water from the system. Then, use an air pump with a manometer to inflate the tank's air valve to the recommended PSI (e.g., 28-30 PSI, as per specific instructions or troubleshooting guides).
- **Diaphragm Inspection:** If, when checking the air valve, water comes out instead of air, it indicates a ruptured diaphragm. While replacement can be done, it may require professional assistance or detailed instructions.
- **Water Quality:** Maintain the quality of water in your supply tank or cistern. Regular cleaning of the tank, use of polyphosphate, and filters (both inlet and outlet) can help reduce scale buildup and protect the pump components.

Troubleshooting

This section addresses common issues you might encounter with your TRUPER HIDR-1/2X24 system.

Problem	Possible Cause	Solution
Pump cycles on and off rapidly (short cycling)	Low air pressure in the tank's air sensor.	Turn off the pump and drain the system. Use an air pump with a manometer to inflate the tank's air valve to 28-30 PSI.
Water comes out of the tank's air valve when checked	Ruptured diaphragm inside the pressure tank.	The diaphragm needs to be replaced. Consult a professional or refer to detailed replacement instructions.
Reduced water pressure or flow	Clogged filters, scale buildup, or issues with the water supply.	Check and clean inlet/outlet filters. Inspect water supply for blockages. Ensure proper water quality maintenance.

Warranty and Support

Information regarding the specific warranty period and detailed support contacts for the TRUPER HIDR-1/2X24 Jet Pump / Tank System was not available in the provided product data. For warranty claims, technical support, or service inquiries, please refer to the documentation included with your product packaging or contact Truper directly through their official website or customer service channels.

You may also visit the Truper Store on Amazon for general brand information:Truper Store

© 2024 Truper. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question