TOTAL TWP415006

Total Automatic Self-priming Jet Pump TWP415006 User Manual

Model: TWP415006

Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Total Automatic Self-priming Jet Pump, model TWP415006. Please read this manual thoroughly before operating the pump to ensure proper use and to prevent damage or injury.

Safety Instructions

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (220-240V~50Hz). Always connect the pump to a properly grounded outlet. Do not operate the pump with a damaged cord or plug.
- **Water Safety:** Do not pump flammable or corrosive liquids. Ensure the pump is not submerged unless specifically designed for submersible use. Protect the pump from freezing temperatures.
- **Installation:** Install the pump in a dry, well-ventilated area, protected from direct sunlight and rain. Ensure stable mounting to prevent vibration.
- **Maintenance:** Disconnect power before performing any maintenance or repairs. Only qualified personnel should perform repairs.
- **Children and Pets:** Keep children and pets away from the pump during operation.

Product Overview and Components

The Total Automatic Self-priming Jet Pump TWP415006 is designed for efficient water transfer. It includes a 24L cylindrical tank, pressure switch, pressure gauge, stainless steel hose, and brass 3-way connector.

Figure 1: Overview of the Total Automatic Self-priming Jet Pump TWP415006.

Figure 2: Key features of the pump, including 1500W power, 24L tank, and copper wire motor.

Included Components:

- 1 x Automatic Self-priming Jet Pump (1.5kW)
- 1 x 24L Cylindrical Tank
- 1 x Pressure Switch
- 1 x Stainless Steel Hose
- 1 x Pressure Gauge
- 1 x Brass 3-way Connector

Specifications

Parameter	Value
Model	TWP415006

Voltage	220-240V~50Hz
Rated Power	1500W (2.0HP)
Max. Flow	100 L/min
Max. Head	60m
Max. Suction	9m
Pipe Diameter	1" x 1"
Motor Type	Copper Wire Motor
Impeller Material	Stainless Steel
Pump Body	Electrophoresis
Shaft Material	Stainless Steel Welding (304+45#)
Cable Length	0.3m
Item Weight	32 Kilograms
Package Dimensions	62.7 x 57.3 x 36 cm

Setup

1. Placement

- Choose a flat, stable, and dry location for the pump, protected from direct weather exposure.
- Ensure adequate ventilation around the pump.
- Position the pump as close as possible to the water source to minimize suction lift.

2. Pipe Connection

- **Suction Pipe:** Connect a rigid pipe of 1" diameter to the suction inlet. Ensure the suction pipe is airtight to prevent air leaks, which can affect priming and pump performance. Install a foot valve with a strainer at the end of the suction pipe in the water source to prevent debris from entering the pump and to maintain prime.
- **Discharge Pipe:** Connect a 1" diameter pipe to the discharge outlet. The included stainless steel hose and brass 3-way connector should be used for the pressure tank and pressure gauge connection.
- Use thread sealant tape on all threaded connections to ensure a watertight seal.

3. Electrical Connection

- Ensure the power supply is 220-240V~50Hz.
- Connect the pump to a dedicated, properly grounded electrical outlet.
- Do not use extension cords unless absolutely necessary, and if so, ensure they are rated for outdoor use and the pump's power requirements.

4. Priming the Pump

- Before first use, or if the pump has run dry, it must be primed.
- Locate the priming plug on the top of the pump casing.

- Remove the priming plug and slowly fill the pump casing with clean water until it overflows.
- Replace the priming plug securely.
- Ensure the discharge valve is open before starting the pump.

Operating Instructions

1. Starting the Pump

- Ensure the pump is properly primed (see Setup section).
- Verify all connections are secure and leak-free.
- Plug the pump into the grounded electrical outlet. The pump will start automatically when pressure drops below the set point of the pressure switch.

2. Monitoring Operation

- Observe the pressure gauge to ensure the system is operating within expected pressure ranges.
- Listen for unusual noises or vibrations, which may indicate a problem.
- Check for any leaks around connections.

3. Shutting Down

- To stop the pump, simply unplug it from the power source. The automatic pressure switch will also stop the pump when the desired pressure is reached.
- For extended periods of non-use, especially in freezing conditions, drain the pump and pipes completely to prevent damage.

Maintenance

1. Regular Checks

- Periodically inspect the pump and all connections for signs of wear, damage, or leaks.
- Check the pressure tank's air charge annually. Refer to the tank's specific instructions for proper air pressure.
- Ensure the foot valve strainer is clear of debris.

2. Cleaning

- Keep the pump exterior clean and free of dust and dirt to ensure proper cooling.
- Do not use harsh chemicals or abrasive cleaners.

3. Winterization (for cold climates)

- If the pump is installed in an area subject to freezing temperatures, it must be drained completely to prevent damage from ice expansion.
- Disconnect power, open all drain plugs, and remove the priming plug to allow all water to escape.
- Store the pump in a warm, dry place if possible.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not start	No power; tripped circuit breaker; faulty motor.	Check power connection and circuit breaker. Consult a qualified electrician if motor is suspected faulty.
Pump runs but no water flows	Pump not primed; air leak in suction line; clogged foot valve/strainer; low water level in source.	Re-prime the pump. Check all suction connections for leaks. Clean foot valve strainer. Ensure adequate water in source.
Low pressure or flow	Partial air leak; clogged impeller; worn components; incorrect pipe size.	Check suction line for small leaks. Inspect and clean impeller. Consult service for worn parts. Ensure correct pipe diameter.
Pump cycles too frequently	Pressure tank air charge too low; leak in system; faulty pressure switch.	Check and adjust pressure tank air charge. Inspect entire system for leaks. Test or replace pressure switch.
Excessive noise/vibration	Cavitation (air in pump); loose mounting; bearing wear.	Ensure pump is primed and no air leaks. Secure pump mounting. Consult service for bearing issues.

Warranty and Support

TOTAL products are manufactured to high-quality standards and are guaranteed against manufacturing defects. For warranty claims or technical support, please contact your local TOTAL authorized service center or the retailer from whom you purchased the product. Please retain your proof of purchase for warranty validation.
For further assistance, you may visit the TOTAL Store on Amazon.

Documents - TOTAL – TWP415006

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