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TecHome TH501

TecHome 1/2 HP Cast Iron Transfer Pump Instruction Manual

Model: TH501

INTRODUCTION

Thank you for choosing the TecHome 1/2 HP Cast Iron Transfer Pump. This manual provides detailed instructions for the safe and efficient operation, installation, and maintenance of your new water pump. Please read this manual thoroughly before use and retain it for future reference.



Figure 1: TechHome 1/2 HP Cast Iron Transfer Pump

SAFETY INFORMATION

WARNING: Read all safety warnings and instructions before operating this pump.

- Always connect the pump to a Ground Fault Circuit Interrupter (GFCI) protected outlet.
- Do not operate the pump with flammable liquids.
- This is a non-submersible pump. Do not immerse the motor in water.
- Ensure all connections are tight to prevent leaks and electrical hazards.
- Keep hands, feet, and clothing away from moving parts.
- Always disconnect power before performing any maintenance or service.

INCLUDED COMPONENTS

Your TechHome 1/2 HP Cast Iron Transfer Pump package includes the following items:

- 1 x Water Pump
- 2 x Brass Connectors for standard 3/4" hose

- 1 x Hose Filter (Suction Strainer)
- 1 x Sealing Tape
- 1 x Set of Extra Replacement Brushes
- Additional replacement parts for the pump mechanism (impeller, gaskets)



Figure 2: Included Accessories



Figure 3: Replacement Parts Kit (Impeller, Gaskets, etc.)

SETUP INSTRUCTIONS

1. **Connect Hoses:** Attach a standard 3/4" garden hose to the inlet port and another to the outlet port of the

pump. Use the provided brass connectors and sealing tape to ensure tight, leak-free connections.

2. **Attach Suction Strainer:** Securely attach the hose filter (suction strainer) to the end of the inlet hose that will be submerged in the water source. This prevents debris from entering the pump.
3. **Priming the Pump:** The pump must be primed before operation. Remove the priming plug located on the top of the pump. Fill the pump casing and the entire inlet line with clean water until full. Replace the priming plug securely.
4. **Positioning:** Place the pump on a stable, dry surface near the water source. Ensure the pump motor will not get wet.
5. **Power Connection:** Plug the pump's power cord into a 120V/60HZ AC GFCI (Ground Fault Circuit Interrupter) protected electrical outlet.



Figure 4: Pump Label with Starting Instructions



Figure 5: Detailed Views of Pump Connections

OPERATING INSTRUCTIONS

Once the pump is properly set up and primed, it is ready for operation.

1. **Start the Pump:** Turn on the power at the GFCI outlet. The pump will begin to draw water.
2. **Monitor Flow:** Observe the water flow from the discharge hose. If no water flows or the flow is intermittent, turn off the pump, re-prime it, and check for any air leaks in the inlet line.
3. **Applications:** This pump is designed for various water transfer tasks, including:
 - Emptying water heaters
 - Draining swimming pools
 - Transferring water from livestock tanks or boats
 - Intermittent pressure boosting for tasks like washing cars or cleaning driveways
4. **Stop the Pump:** When the water transfer is complete or the water source is depleted, turn off the power to the pump.



Figure 6: Draining a Swimming Pool



Figure 7: Garden Watering Application



Figure 8: Car Washing Application

MAINTENANCE

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

- **Drain After Use:** Always tilt the pump and drain it completely after each use to prevent water from freezing and damaging internal components, especially in cold weather.
- **Clean Suction Strainer:** Periodically inspect and clean the suction strainer to remove any debris that may impede water flow.
- **Impeller and Brushes:** The pump comes with a replacement kit for the impeller and motor brushes. If you notice a significant decrease in performance or unusual noises, these components may need inspection or replacement. Refer to the detailed instructions provided with the replacement kit for proper installation.
- **Storage:** Store the pump in a dry, protected area when not in use.

BIG ENERGY

It is a high-pressure water pump can provide max 100 PSI of water pressure.



Figure 9: Reminder to Drain Pump After Use

TROUBLESHOOTING

If you encounter issues with your pump, try these common troubleshooting steps:

- **Pump Does Not Start:**

- Check if the power cord is securely plugged into a working GFCI outlet.
- Ensure the GFCI has not tripped. Reset if necessary.
- Verify that the pump is properly primed with water.

- **Low Flow or No Water Output:**

- Re-prime the pump. Air in the system can prevent proper operation.
- Check the inlet hose and suction strainer for clogs or blockages.
- Inspect all hose connections for air leaks. Tighten as needed.
- Ensure the water source is sufficient and the suction lift is within the pump's capabilities (max 20 feet).
- Check the impeller for damage or obstructions.

- **Excessive Noise:**

- Some operational noise is normal for transfer pumps.
- Ensure the pump is on a stable surface.
- Check for air in the system; re-priming may reduce noise.

SPECIFICATIONS

Feature	Specification
Power	1/2 HP
Voltage	120V/60HZ AC
Max Flow Rate	1560 GPH (25 Gallons Per Minute)
Suction Lift	20 Feet
Connections	3/4" GHT
Maximum Fluid Temperature	120°F
Maximum Case Pressure	100 PSI
Material	Cast Iron
Product Dimensions	11.6"L x 10.6"W x 7.3"H
Item Weight	19.12 Pounds
Model Number	TH501
UPC	759838144348

WARRANTY INFORMATION

The TechHome 1/2 HP Cast Iron Transfer Pump comes with a **1 Year Factory Warranty**. Please retain your proof of purchase for warranty claims. For specific warranty terms and conditions, refer to the documentation included with your product or contact customer support.

CUSTOMER SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact TechHome customer support:

Email: support@techhomepump.com

Please provide your model number (TH501) and a detailed description of your issue when contacting support to ensure a prompt resolution.