

TecHome TH301

TecHome 12V Portable Electric Utility Water Transfer Pump Instruction Manual

Model: TH301

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1. SAFETY INSTRUCTIONS

Read all instructions carefully before operating the pump. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power source matches the pump's voltage (12V DC). Always connect to a properly grounded outlet.
- **Non-Submersible:** This pump is **NOT** submersible. Do not submerge the pump in water or any other liquids.
- **Flammable Liquids:** Do not pump flammable liquids such as gasoline, fuel oil, kerosene, etc. This pump is designed for water transfer only.
- **Dry Running:** Do not run the pump dry. Ensure there is always water flowing through the pump during operation to prevent damage.
- **Secure Connections:** Always ensure all hose connections are tight and secure to prevent leaks and maintain prime.
- **Children and Pets:** Keep children and pets away from the pump during operation.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- 12V Portable Electric Utility Water Transfer Pump (Model TH301)
- ON/OFF Switch
- 6 ft Suction Hose
- Water Suction Strainer Attachment (Triangular base)

- Additional Impeller Replacement Kit
- Alligator Clip-type Power Connector



Image: The TechHome 12V Portable Electric Utility Water Transfer Pump shown with its complete set of accessories, including the pump unit, power cable with ON/OFF switch, alligator clips, suction hose, triangular suction strainer, and a replacement impeller kit.

3. SPECIFICATIONS

Feature	Specification
Model Number	TH301
Power	12V DC
Max. Flow Rate	330 GPH (5.5 Gallons Per Minute)
Discharge Port	3/4 inch GHT

Suction Port	3/4 inch
Max. Suction Lift	3 ft
Max. Discharge Head	40 ft
Housing Material	Powder Coated Carbon Steel
Impeller Material	NBR Rubber
Product Dimensions	8.66"L x 8.66"W x 5.71"H
Item Weight	5.89 Pounds



12 Volts 330GPH Portable Transfer Pump

Brand TechHome	Model TH301-SkyBlue	Max.Flow Rate 330 GPH	Current Rating 12 A
Discharge 3/4 in.GHT	Max.Suction Lift 3 ft	Max.Discharge Head 40 ft	
Housing Material Powder Coated Carbon Steel	Impeller Material NBR Rubber	Operating Temperature Range 0 to 45°C	

Image: A visual representation of the pump with key specifications highlighted, including brand, model, flow rate, discharge, suction lift, discharge head, housing material, impeller material, and current rating.

4. SETUP

1. **Position the Pump:** Place the pump on a stable, dry surface near the water source. Ensure it is not submerged.
2. **Connect Suction Hose:** Attach the 6 ft suction hose to the pump's inlet port (marked 'INLET' or 'SUCTION'). Securely fasten the water suction strainer attachment to the other end of the suction hose.
3. **Connect Discharge Hose:** Attach your garden hose (not included) to the pump's discharge port (marked 'OUTLET' or 'DISCHARGE'). Direct the other end of the discharge hose to the desired drainage area.
4. **Prime the Pump:** Before first-time use, fill the pump head with water through the discharge port to ensure proper priming. This helps the pump start efficiently.
5. **Connect Power:** Connect the alligator clamps to a 12V DC battery. Ensure correct polarity (red to positive, black to negative).



Portable Handle



Premium Hardware



Stable Base



Alligator Clip-type Power Connector

Image: The pump unit highlighting its portable handle, robust metal hardware, stable base for secure placement, and the alligator clip-type power connector for 12V DC power sources.

5. OPERATING INSTRUCTIONS

1. **Placement:** Submerge the suction strainer end of the hose into the water you wish to transfer. Ensure the pump

unit itself remains dry and above the water level.

2. **Start Pumping:** Flip the ON/OFF switch to the 'ON' position. The pump will begin transferring water.
3. **Low Suction Function:** When using the water suction attachment, this pump can remove water down to 1/8 inch of the surface, making it ideal for draining shallow areas.
4. **Monitor Operation:** Observe the pump during operation to ensure continuous water flow and no dry running.
5. **Stop Pumping:** Once the desired water level is reached or the transfer is complete, flip the ON/OFF switch to the 'OFF' position.

Typical Applications:

- Removing water from aquariums
- Draining flooded basements
- Emptying rain barrels
- Draining water beds and swimming pools
- Watering lawns and gardens
- Assisting with washing machines or car washing



Image: A collage demonstrating the versatility of the pump in various household and outdoor tasks, such as garden irrigation, pool maintenance, and aquarium water changes.

6. MAINTENANCE

- **Cleaning:** After each use, flush the pump with clean water to remove any debris or residue.
- **Impeller Replacement:** The pump includes an additional impeller replacement kit. Refer to the detailed instructions provided with the kit for replacing the impeller if wear or damage occurs. Regular inspection of the impeller can extend the pump's lifespan.
- **Storage:** Store the pump in a dry, cool place when not in use. Disconnect all hoses and power connections.

FREE SUPPORTING TOOLS



6 ft Water Hose & Suction Attachment

Removes water down to 1/8 inch of surface when water suction attachment is used.

Replacement Parts kit

The extra impeller replacement kit greatly improves the lifetime of the pump.



Image: The included 6 ft suction hose with its triangular suction attachment, designed for low-level water removal, alongside the impeller replacement kit for pump maintenance.

7. TROUBLESHOOTING

If the pump is not operating correctly, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
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Pump does not start	No power, loose connection, faulty switch, motor issue.	Check 12V DC power source and connections. Ensure ON/OFF switch is engaged. Inspect power cable for damage.
Pump runs but no water flows	Pump not primed, air leak in suction line, clogged suction strainer, dry running.	Ensure pump head is filled with water (primed). Check all suction hose connections for tightness. Clean the suction strainer. Ensure water source is sufficient.
Reduced flow rate	Clogged strainer, kinked hose, worn impeller.	Clean suction strainer. Straighten any kinks in hoses. Inspect and replace impeller if necessary using the provided kit.
Water leaks from connections	Loose hose connections, damaged gaskets.	Tighten all hose connections. Inspect gaskets and replace if damaged.

8. WARRANTY & SUPPORT

This TecHome 12V Portable Electric Utility Water Transfer Pump comes with a **1 Year Factory Warranty**.

For technical support, warranty claims, or replacement parts, please contact TecHome customer service. Refer to the product packaging or the official TecHome website for current contact information.