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Tsurumi Pump 50UT2.75S

Tsurumi Pump 50UT2.75S Cast Iron Sewage Pump Instruction Manual

Model: 50UT2.75S

Brand: Tsurumi Pump

1. INTRODUCTION

The Tsurumi Pump 50UT2.75S is a robust cast iron submersible sewage pump designed for efficient transfer of wastewater and sewage. It is suitable for various applications including draining sewage from factories, residences, hotels, and restaurants, as well as transferring wastewater between storage tanks.

This pump is engineered to handle solids up to 1.4 inches in diameter and can achieve a pumping rate of up to 95 gallons per minute (GPM).



Figure 1: Tsurumi Pump 50UT2.75S Cast Iron Sewage Pump. This image shows the main unit of the submersible sewage pump, highlighting its durable cast iron construction and compact design.

2. KEY FEATURES

- **Large Passage Diameter:** Capable of handling liquids containing various solids up to 1.4 inches in diameter.
- **Ball Float:** Enables automatic operation based on water level, ensuring efficient and hands-free pumping.
- **Portability:** Equipped with a handle for easy carrying and movement, facilitating installation and relocation.
- **Durable Construction:** Features a dual inner mechanical seal with silicon carbide faces to prevent leakage and extend pump life.
- **Motor Protection:** Built-in thermal motor protection prevents overheating, enhancing reliability and longevity.
- **Corrosion Resistance:** Utilizes a resin impeller that is resistant to wear and corrosion, suitable for demanding environments.
- **Power Cord and Discharge:** Comes with a 32-foot power cord and a 2-inch discharge port for easy connection.



50UT2.75S

- 1 Large Passage Diameter**
Large passage that makes it ideal for liquid containing various solids up to 1.4" in diameter
- 2 Ball Float**
Ball float allows for automatic operation based on water level.
- 3 Portability**
Our pump's handle makes it easy to carry and move.



Figure 2: Key Features of the 50UT2.75S Pump. This diagram illustrates the large passage diameter for solids, the ball float for automatic operation, and the integrated handle for portability.

3. SETUP AND INSTALLATION

Proper setup is crucial for the optimal performance and longevity of your Tsurumi 50UT2.75S pump. Ensure all safety precautions are followed before beginning installation.

3.1 Placement

The pump is designed for submersible use. Place the pump on a solid, level surface in the liquid to be pumped. Ensure it is not resting directly on soft sediment or debris that could impede its operation or clog the intake.

3.2 Discharge Connection

Connect a standard 2-inch hose or pipe to the pump's discharge port. Secure the connection to prevent leaks and ensure efficient flow. For permanent installations, consider using a check valve to prevent backflow.

3.3 Power Connection

The pump operates on 115V power. Connect the 32-foot power cord to a grounded electrical outlet. Ensure the power supply matches the pump's voltage requirements. Avoid using extension cords if possible; if necessary, use a heavy-duty, outdoor-rated extension cord of appropriate gauge.

4. OPERATING INSTRUCTIONS

The Tsurumi 50UT2.75S pump is designed for automatic operation, making it user-friendly for continuous or intermittent pumping tasks.

4.1 Automatic Operation

The integrated ball float switch controls the pump's operation. When the water level rises to a predetermined point, the float activates the pump, initiating the pumping cycle. The pump will continue to operate until the water level drops, causing the float to deactivate the pump.

4.2 Manual Operation (if applicable)

Refer to the specific wiring diagram or control panel instructions if manual override or continuous operation is desired for specific applications. Always ensure the pump is fully submerged during operation to prevent dry running and potential damage.



50UT2.75S

AUTOMATIC CAST IRON SEWAGE PUMP

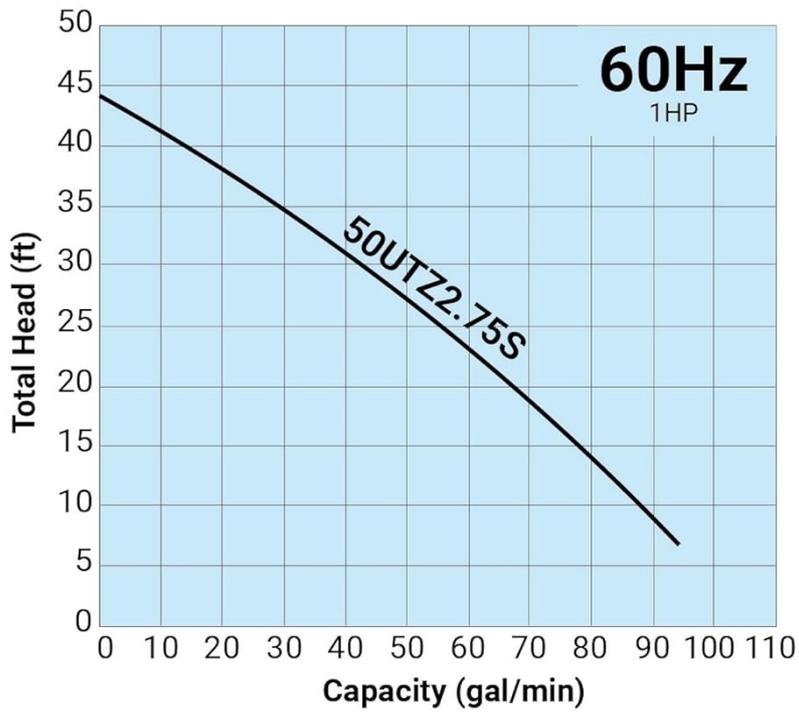


Figure 3: Performance Curve for 50UT2.75S. This graph illustrates the relationship between total head (ft) and capacity (gal/min) for the 1 HP, 60Hz pump, indicating its operational efficiency.



Figure 4: Typical Applications for the 50UT2.75S Pump. This image shows examples of the pump's use in residential septic systems and for raw sewage handling, demonstrating its versatility.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Tsurumi 50UT2.75S pump. Always disconnect power before performing any maintenance.

5.1 General Inspection

- Periodically inspect the pump for any visible damage to the casing, power cord, or discharge port.
- Check for any signs of excessive wear or corrosion, especially on the resin impeller.
- Ensure the dual inner mechanical seal is intact and not leaking.

5.2 Cleaning

Remove any accumulated debris or foreign objects from the pump's intake screen and around the impeller. This prevents blockages and maintains optimal flow. The pump's design allows for handling solids, but excessive buildup can reduce

efficiency.

5.3 Storage

If storing the pump for an extended period, clean it thoroughly and store it in a dry, protected area to prevent damage from freezing temperatures or environmental exposure.

6. TROUBLESHOOTING

This section provides guidance for common issues you might encounter with your Tsurumi 50UT2.75S pump. For complex problems, contact Tsurumi (America), Inc. support.

Problem	Possible Cause	Solution
Pump does not start or run.	No power supply; Float switch stuck or obstructed; Thermal overload activated.	Check power connection and circuit breaker; Clear any obstructions around the float switch; Allow pump to cool down if thermal protection activated.
Pump runs but no water is discharged or flow is low.	Discharge hose/pipe clogged or kinked; Intake screen blocked; Impeller obstructed.	Inspect and clear discharge line; Clean intake screen; Inspect and clear impeller (disconnect power first).
Pump cycles on and off frequently.	Float switch range too narrow; Water level fluctuating rapidly.	Adjust float switch position if possible; Ensure proper sump/pit size for application.
Unusual noise or vibration.	Debris in pump; Worn bearings; Improper installation.	Disconnect power and check for debris; Contact service for internal component issues; Re-check installation for stability.

7. SPECIFICATIONS

Attribute	Value
Model Number	50UT2.75S
Brand	Tsurumi Pump
Power	1 HP
Voltage	115 V
Discharge Size	2 inches
Maximum Flow Rate	95 GPM (360 Liters Per Minute)
Maximum Solids Handling	1.4 inches
Power Cord Length	32 feet
Material	Cast Iron
Item Weight	45 Pounds

Attribute	Value
Product Dimensions	9.53 x 0.01 x 0.02 inches
Maximum Lifting Height	13 Centimeters (approx. 5 inches)
Certifications	UL & CSA certified



Figure 5: Summary of 50UT2.75S Product Specifications. This image provides a quick overview of key technical data for the pump.

8. OFFICIAL PRODUCT VIDEO



Video 1: Tsurumi Pump, "Built for Work". This video provides an overview of Tsurumi Pump's commitment to reliable pumping solutions and highlights various applications of their products, including wastewater treatment, mining, construction, and flood remediation.

9. WARRANTY AND SUPPORT

The Tsurumi 50UT2.75S pump comes with a **2-YEAR WARRANTY**. This product is UL & CSA certified, ensuring compliance with safety and quality standards.

For any questions, concerns, technical assistance, or warranty claims, please contact Tsurumi (America), Inc. directly. Their dedicated team is available to provide effective solutions and support for your water projects.

You can find more information and contact details on the official Tsurumi Pump website or through your authorized dealer.



Figure 6: Reasons to Choose Tsurumi. This graphic emphasizes Tsurumi's reputation for being a trusted brand, offering durability, versatility, efficiency, and excellent support.

