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Tsurumi Pump 12PN

Tsurumi Pump 12PN Submersible Pond and Waterfall Pump Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, and maintenance of your Tsurumi Pump 12PN submersible pond and waterfall pump. Please read this manual thoroughly before using the pump to ensure proper function and longevity. Retain this manual for future reference.

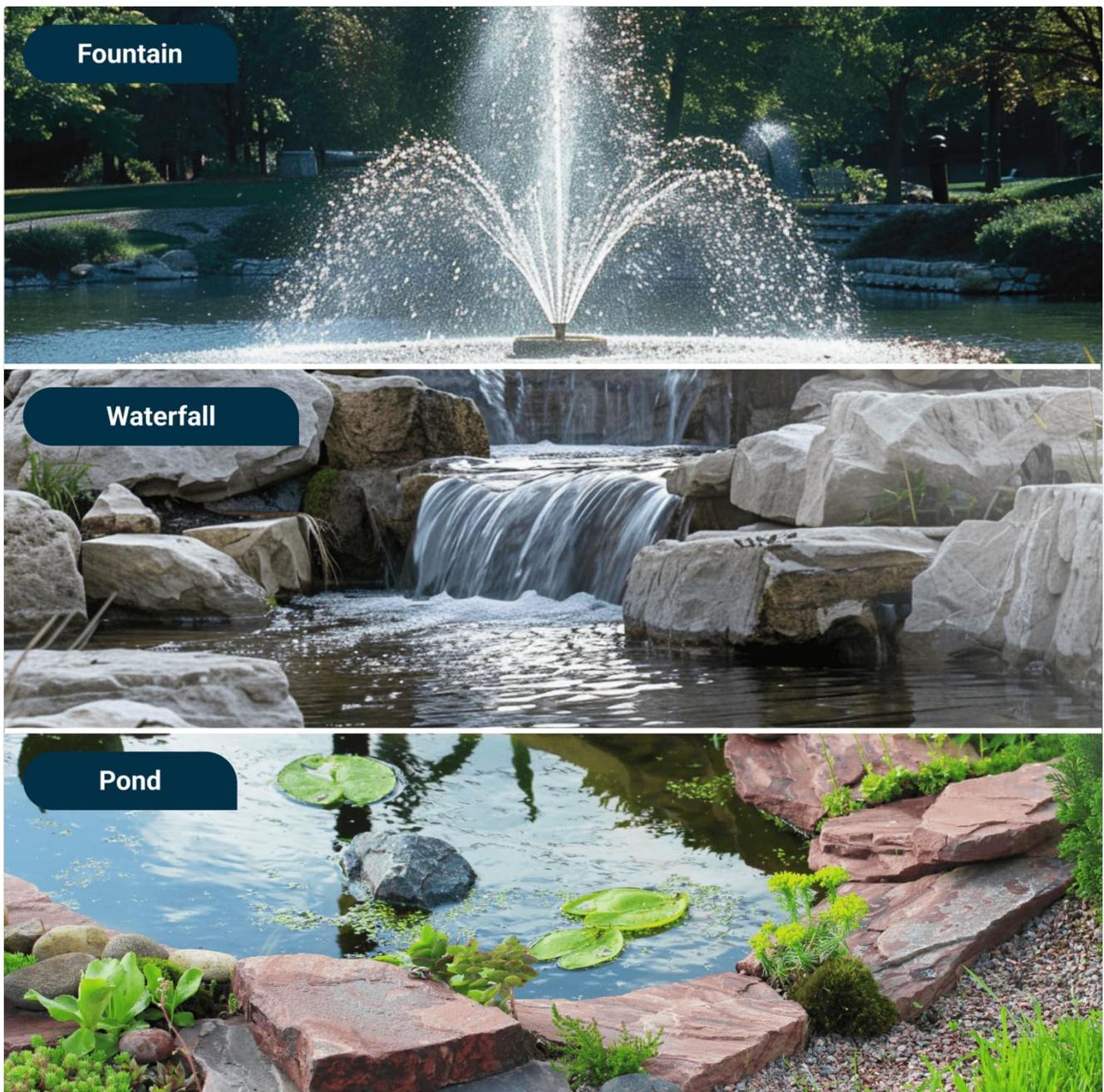


Image 1.1: The Tsurumi 12PN pump is suitable for various water features, including fountains, waterfalls, and ponds.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the pump:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (115V). Always connect to a grounded outlet. Do not operate the pump with a damaged power cord. Never handle the pump or power cord with wet hands.
- **Submersion:** This pump is designed for submersible use only. Do not operate it dry.
- **Installation:** Securely install the pump to prevent movement. Ensure the discharge hose is properly connected.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Children and Pets:** Keep children and pets away from the pump and water feature during operation.

3. PRODUCT OVERVIEW AND FEATURES

The Tsurumi Pump 12PN is a robust submersible pump engineered for pond and waterfall applications. It features durable construction and efficient performance.



Image 3.1: The Tsurumi 12PN Submersible Pump.

Key Features:

- **Durable Construction:** Features a stainless-steel housing and fiberglass-reinforced plastic impeller, volute, and top cover for corrosion resistance and durability.
- **Eco-Friendly Lubrication:** Utilizes white mineral oil in the oil chamber, creating a safe environment for aquatic ecosystems.
- **High Performance:** Capable of pumping up to 11,500 gallons per hour with a maximum head of 23 feet.

- **Solids Handling:** Can manage solids up to 1.4 inches in diameter.
- **Advanced Sealing:** Equipped with a dual inside mechanical seal with silicon carbide faces to prevent leakage and extend pump life.
- **Long Power Cord:** Comes standard with a 20-foot power cord.



12PN

- 1 Corrosion Resistant**
Stainless steel housing allows for resistance against corrosion.
- 2 Eco-Friendly**
Seal faces lubricated with food-grade white mineral oil, safe for ecosystems with fish and plant life.
- 3 Durable Materials**
Durable resin molded parts aid in longer pump life.



Image 3.2: Key features of the Tsurumi 12PN pump.

4. SPECIFICATIONS

Specification	Detail
Model Number	12PN
Brand	Tsurumi Pump
Power Source	Corded Electric
Voltage	115 Volts

Specification	Detail
Horsepower (HP)	1 HP
Maximum Flow Rate	133 Gallons Per Minute (8000 GPH)
Maximum Lifting Height (Head)	23 Feet
Discharge Size	3 inches
Solids Handling	Up to 1.4 inches in diameter
Material	Stainless Steel, Fiberglass Reinforced Plastic
Product Dimensions (L x W x H)	13" x 9" x 17"
Item Weight	37 Pounds
Power Cord Length	20 Feet
Included Components	Submersible pump
UPC	894787000526



12PN

SUBMERSIBLE POND & WATERFALL PUMP

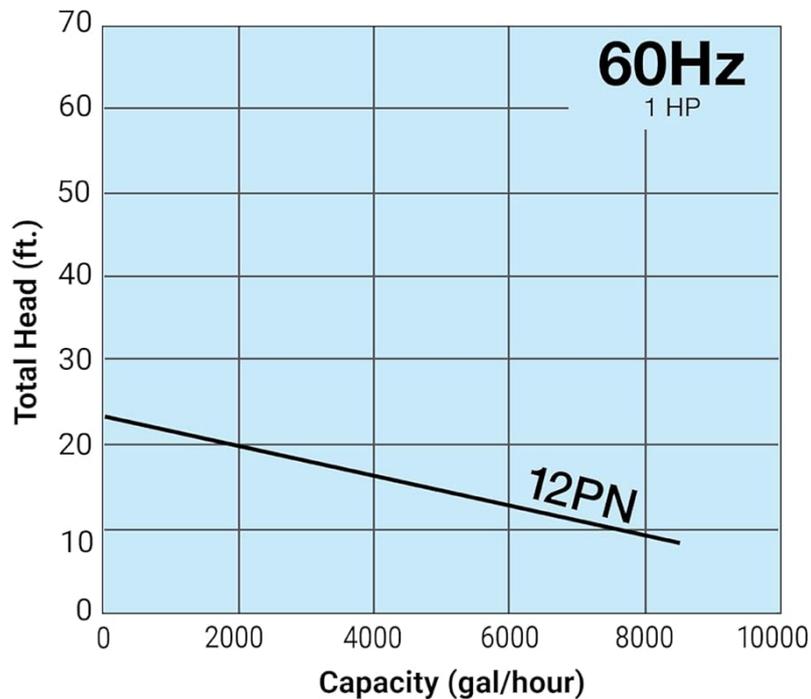


Image 4.1: Performance curve for the Tsurumi 12PN pump.

5. SETUP

Follow these steps for proper installation of your Tsurumi 12PN pump:

- 1. Placement:** Position the pump on a stable, level surface within the pond or water feature. Ensure it is fully submerged and not resting directly on soft sediment. Using a pump stand or elevated platform is recommended to prevent clogging from debris.
- 2. Discharge Connection:** Connect a suitable discharge hose or pipe to the pump's 3-inch discharge port. Ensure all connections are secure and watertight to prevent leaks and maintain optimal flow.
- 3. Electrical Connection:** Route the 20-foot power cord safely, avoiding kinks or damage. Connect the pump to a dedicated 115V, grounded electrical outlet protected by a Ground Fault Circuit Interrupter (GFCI). Do not use extension cords unless absolutely necessary and ensure they are rated for outdoor use and the pump's power requirements.
- 4. Initial Check:** Before powering on, verify that the pump is fully submerged and all connections are tight.



Image 5.1: The Tsurumi 12PN pump installed in a water environment.

6. OPERATING INSTRUCTIONS

Once the pump is properly installed and submerged, operation is straightforward:

1. **Power On:** Plug the pump's power cord into the GFCI-protected 115V outlet. The pump should start immediately.
2. **Monitor Flow:** Observe the water flow from the discharge. Ensure it is consistent and free of air bubbles, which could indicate an airlock or insufficient water level.
3. **Continuous Operation:** The Tsurumi 12PN is designed for continuous operation in submerged conditions.
4. **Power Off:** To stop the pump, simply unplug it from the electrical outlet.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump:

- **Disconnect Power:** Always unplug the pump from the power source before performing any maintenance.

- **Clean Impeller and Volute:** Periodically remove the pump from the water and inspect the impeller and volute for debris (leaves, algae, small stones). Clean thoroughly with water and a soft brush.
- **Check Power Cord:** Inspect the power cord for any signs of damage, cuts, or fraying. Replace if damaged.
- **Winterization:** In freezing climates, remove the pump from the water before temperatures drop below freezing. Clean it thoroughly and store it in a dry, frost-free location.
- **Oil Chamber:** The pump's oil chamber contains white mineral oil for lubrication. This is a sealed unit and typically does not require user intervention. If leakage is suspected, contact Tsurumi Pump support.

8. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not start	No power; GFCI tripped; Impeller jammed	Check power connection; Reset GFCI; Disconnect power and clear impeller
Low water flow	Clogged intake/impeller; Kinked discharge hose; Insufficient water level	Clean intake/impeller; Straighten hose; Add water to feature
Pump runs but no water flows	Airlock; Impeller damaged; Discharge blocked	Shake pump gently to release air; Inspect/replace impeller; Clear discharge path
Excessive noise or vibration	Debris in impeller; Worn bearings; Improper installation	Clean impeller; Contact service for worn parts; Ensure stable placement

9. WARRANTY AND SUPPORT

The Tsurumi Pump 12PN comes with a **2-YEAR WARRANTY**. The product is UL & CSA certified, ensuring compliance with safety and quality standards.

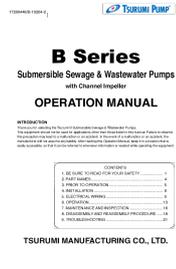
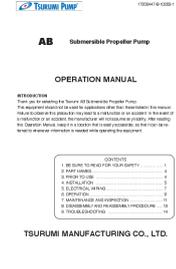
For any questions, concerns, or warranty claims, please contact Tsurumi (America), Inc. customer support.

10. CONTACT INFORMATION

Tsurumi (America), Inc.

For technical assistance, parts, or service inquiries, please visit the official Tsurumi Pump website or refer to your purchase documentation for direct contact details.

Related Documents - 12PN

 <p>B Series Submersible Sewage & Wastewater Pumps with Channel Impeller OPERATION MANUAL</p> <p>CONTENTS</p> <ul style="list-style-type: none"> 1. SAFETY PRECAUTIONS AND SAFETY 2. INSTALLATION 3. OPERATION 4. MAINTENANCE 5. TROUBLESHOOTING 6. ELECTRICAL WIRING 7. DISASSEMBLY AND REASSEMBLY 8. SPECIFICATIONS AND PERFORMANCE 9. ACCESSORIES <p>TSURUMI MANUFACTURING CO., LTD.</p>	<p>Tsurumi B Series Submersible Sewage & Wastewater Pumps Operation Manual</p> <p>Comprehensive operation manual for Tsurumi B Series Submersible Sewage & Wastewater Pumps with Channel Impeller, covering safety precautions, installation, operation, maintenance, and troubleshooting.</p>
 <p>HS Submersible Portable Dewatering Pump ●HS(2.4S)HS(2.75S) ●HS(2.75S)HS(3.75S) OPERATION MANUAL</p> <p>CONTENTS</p> <ul style="list-style-type: none"> 1. SAFETY PRECAUTIONS AND SAFETY 2. INSTALLATION 3. OPERATION 4. MAINTENANCE 5. TROUBLESHOOTING 6. ELECTRICAL WIRING 7. DISASSEMBLY AND REASSEMBLY 8. SPECIFICATIONS AND PERFORMANCE 9. ACCESSORIES <p>TSURUMI MANUFACTURING CO., LTD.</p>	<p>Tsurumi HS Series Submersible Portable Dewatering Pump Operation Manual</p> <p>Comprehensive operation manual for Tsurumi HS Series submersible portable dewatering pumps, covering installation, operation, maintenance, and troubleshooting for models like HS2.4S, HSE2.4S, HSZ2.4S, HS2.75S, HS3.75S, HSZ2.75S, and HSZ3.75S.</p>
 <p>AB Submersible Propeller Pump OPERATION MANUAL</p> <p>CONTENTS</p> <ul style="list-style-type: none"> 1. SAFETY PRECAUTIONS AND SAFETY 2. INSTALLATION 3. OPERATION 4. MAINTENANCE 5. TROUBLESHOOTING 6. ELECTRICAL WIRING 7. DISASSEMBLY AND REASSEMBLY 8. SPECIFICATIONS AND PERFORMANCE 9. ACCESSORIES <p>TSURUMI MANUFACTURING CO., LTD.</p>	<p>Tsurumi AB Submersible Propeller Pump Operation Manual</p> <p>Comprehensive operation manual for the Tsurumi AB Submersible Propeller Pump, covering safety precautions, installation, operation, maintenance, disassembly, and troubleshooting. Includes detailed instructions, diagrams, and specifications.</p>
 <p>LH/LH-W HIGH HEAD DRAINAGE PUMPS</p>	<p>Tsurumi LH/LH-W Series Submersible High Head Drainage Pumps Specifications & Performance</p> <p>Explore the Tsurumi LH and LH-W series submersible heavy-duty pumps, engineered for high head drainage applications. This document details their robust construction, key features, optional specifications, performance curves, and comprehensive technical data for various models.</p>
 <p>KTV/KTVE/NK Series Submersible Dewatering Pump OPERATION MANUAL</p> <p>CONTENTS</p> <ul style="list-style-type: none"> 1. SAFETY PRECAUTIONS AND SAFETY 2. INSTALLATION 3. OPERATION 4. MAINTENANCE 5. TROUBLESHOOTING 6. ELECTRICAL WIRING 7. DISASSEMBLY AND REASSEMBLY 8. SPECIFICATIONS AND PERFORMANCE 9. ACCESSORIES <p>TSURUMI MANUFACTURING CO., LTD.</p>	<p>Tsurumi KTV/KTVE/NK Series Submersible Dewatering Pump Operation Manual</p> <p>Comprehensive operation manual for Tsurumi KTV/KTVE/NK Series Submersible Dewatering Pumps, covering safety precautions, installation, electrical wiring, operation, maintenance, disassembly, and troubleshooting. Includes specifications and diagrams.</p>
 <p>LH SERIES SPECIFICATIONS</p>	<p>Tsurumi Pump LH Series Dewatering Pumps Specifications and Performance</p> <p>Detailed specifications, performance curves, dimensions, and sectional views for Tsurumi Pump's LH Series submersible dewatering pumps, including models LH6110 and LH8110.</p>