

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Tsurumi Pump](#) /
- › [Tsurumi Pump HSZ3.75S Submersible Trash Pump Instruction Manual](#)

Tsurumi Pump HSZ3.75S

Tsurumi Pump HSZ3.75S Submersible Trash Pump Instruction Manual

Model: HSZ3.75S | Brand: Tsurumi Pump

1. PRODUCT OVERVIEW

The Tsurumi Pump HSZ3.75S is a robust 1 HP, 115V submersible trash pump designed for dewatering applications involving sand, solids, and debris. It features a built-in ball float switch for automatic operation, activating when water levels rise and shutting off when they drop. This pump is engineered for reliable and efficient performance, capable of handling solids up to 0.3 inches without significant wear or clogging. It comes with a 32ft power cord and a 3-inch angled discharge port for flexible hose connections.



Figure 1: The Tsurumi Pump HSZ3.75S submersible trash pump, featuring its blue motor housing, black pump body, and yellow float switch.

Key Features:

- **Automatic Operation:** Integrated ball float switch for hands-free activation and deactivation based on water levels.
- **Powerful Performance:** 1 HP motor, 115V, delivering up to 66 GPM (4000 GPH) flow rate.
- **Solids Handling:** Designed to pump water containing sand, solids, and debris up to 0.3 inches.
- **Durable Construction:** Built for demanding environments with a cast iron body and polyurethane semi-vortex impeller.
- **Flexible Discharge:** Angled 3-inch discharge port for easy hose and fitting connections.
- **Extended Reach:** Includes a 32ft power cord.

2. SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating the pump. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

General Safety Precautions:

- Always disconnect power before servicing or moving the pump.
- Ensure the pump is properly grounded to prevent electric shock. Use a Ground Fault Circuit Interrupter (GFCI) for all electrical connections.
- Never operate the pump dry. Submersible pumps require water for cooling and lubrication.
- Do not use the power cord to lift or carry the pump. Use the designated handle.
- Keep hands, feet, and clothing clear of the pump's intake and discharge openings during operation.
- Do not pump flammable or explosive liquids, such as gasoline, fuel oil, or kerosene.
- Ensure the installation area is well-ventilated if the pump is used in an enclosed space.
- Protect the power cord from sharp objects, hot surfaces, oil, and chemicals.

3. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity.

3.1 Unpacking and Inspection

- Carefully remove the pump from its packaging.
- Inspect the pump for any visible damage that may have occurred during shipping. Contact your supplier immediately if damage is found.
- Verify that all components listed in the packing list are present.

3.2 Placement

- Place the pump on a stable, level surface in the lowest part of the area to be dewatered.
- Ensure the pump's intake is clear of mud, sand, or large debris that could block it. A resin strainer is included to prevent larger particles from entering.
- Allow sufficient space around the pump for proper water flow and float switch movement.

Product Features



Figure 2: Diagram highlighting key features of the HSZ3.75S, including the portable handle, anti-wicking cable entrance, ball float, 3-inch discharge, and resin strainer.

3.3 Discharge Hose Connection

- Connect a suitable discharge hose to the 3-inch angled discharge port.
- Secure the hose with a clamp to prevent leaks and disconnections during operation.
- Route the discharge hose away from the area to be dewatered, ensuring the water is directed to a safe and appropriate drainage location.

3.4 Electrical Connection

- Connect the pump to a grounded 115V power outlet.
- Always use a GFCI-protected outlet to minimize the risk of electric shock.
- Ensure the power cord is not stretched, pinched, or submerged in water. The anti-wicking cable entrance provides protection against water incursion due to cable damage.

4. OPERATING INSTRUCTIONS

The Tsurumi HSZ3.75S pump is designed for automatic operation via its float switch.

4.1 Automatic Operation

- Once the pump is installed and connected to power, ensure the float switch is free to move.
- As the water level rises, the float switch will lift. When it reaches a certain height, the pump will automatically activate and begin pumping.
- The pump will continue to operate until the water level drops, causing the float switch to fall and deactivate the pump.
- Monitor the pump during its first few cycles to ensure proper function and float switch movement.

4.2 Important Operating Notes

- Avoid operating the pump in extremely shallow water where the intake may become exposed, leading to dry running.
- The semi-vortex impeller and agitator are designed to suspend sand and small solids, preventing clogging and ensuring continuous flow.
- Regularly check the discharge flow to ensure the pump is operating efficiently.



Figure 3: Examples of applications for the HSZ3.75S pump, including dirty water, pond cleanouts, and flood remediation.

5. MAINTENANCE

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

5.1 Routine Inspection

- Before each use, inspect the power cord for cuts, abrasions, or other damage.
- Check the pump body for any cracks or damage.
- Ensure the float switch moves freely and is not obstructed by debris.

5.2 Cleaning the Strainer and Impeller

- Periodically disconnect power and remove the pump from the water.
- Clean any accumulated debris from the resin strainer at the bottom of the pump.
- Inspect the impeller area for any lodged debris. Carefully remove any obstructions.

5.3 Winterization (if applicable)

- In freezing climates, remove the pump from service before temperatures drop below freezing.
- Clean the pump thoroughly and store it in a dry, frost-free location.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Pump does not start	<ul style="list-style-type: none">• No power to pump• Float switch stuck or obstructed• Motor overload protection tripped	<ul style="list-style-type: none">• Check power supply, circuit breaker, and GFCI.• Ensure float switch moves freely.• Allow motor to cool, then reset if applicable.
Low or no water flow	<ul style="list-style-type: none">• Strainer or impeller clogged• Discharge hose kinked or obstructed• Air lock in pump	<ul style="list-style-type: none">• Disconnect power, clean strainer and impeller.• Check and clear discharge hose.• Lift and lower pump slightly to release trapped air.
Pump runs continuously	<ul style="list-style-type: none">• Float switch stuck in 'on' position• Water level not dropping sufficiently	<ul style="list-style-type: none">• Check float switch for obstructions.• Ensure discharge is not recirculating back to the pump.

7. SPECIFICATIONS

Detailed technical specifications for the Tsurumi Pump HSZ3.75S.

Specification	Value
Model Number	HSZ3.75S
Horsepower	1 HP
Voltage	115 Volts
Maximum Flow Rate	66 Gallons Per Minute (4000 GPH)
Discharge Size	3 inches
Item Weight	43 Pounds
Product Dimensions	19"L x 13"W x 10"H
Power Source	Corded Electric
Material	Cast Iron
Style	Submersible
Cord Length	32 feet

8. WARRANTY AND SUPPORT

Tsurumi Pump products are built for durability and come with comprehensive support.

8.1 Warranty Information

The Tsurumi Pump HSZ3.75S comes with a **2-YEAR WARRANTY**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

8.2 Certifications

This product is **UL & CSA certified**, ensuring it meets recognized safety and performance standards.

8.3 Customer Support

For any questions, concerns, or technical assistance regarding your Tsurumi Pump HSZ3.75S, please contact Tsurumi (America), Inc. Their dedicated team is available to provide effective solutions and support for your water projects.

9. TSURUMI PUMP OVERVIEW

Learn more about Tsurumi Pump's commitment to quality and innovation.

Your browser does not support the video tag.

Video 1: An introductory video from Tsurumi Pump, featuring Glenn Wiczorek, Managing Director of Tsurumi America, discussing the company's commitment to reliable pumping solutions and the diverse applications of their products, including wastewater treatment, mining, construction, and flood remediation. This video provides a brief overview of the brand's values and expertise.

Related Documents - HSZ3.75S

	<p>Tsurumi Pump GSZ Series High Volume Dewatering and Sand Pumps Specifications</p> <p>Detailed specifications, performance curves, dimensions, and parts list for Tsurumi Pump's GSZ Series high volume dewatering, sand, and agitator submersible pumps, including models GSZ-4/6-SERIES and GSZL822-61.</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>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>
	<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>Tsurumi NK-Series Semi-Vortex Dewatering Pumps - Technical Specifications</p> <p>Detailed technical specifications, features, applications, performance curves, dimensions, and materials for Tsurumi NK-Series semi-vortex dewatering pumps, including models NK2-15SK, NK3-22SK, and NK4-22L. Information covers pump construction, motor details, and performance data.</p>

Tsurumi Pump



[Tsurumi LH/LH-W Series Submersible High Head Drainage Pumps | Specifications & Performance](#)

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.