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- › [Tsurumi Pump](#) /
- › [Tsurumi Pump LB-800 Submersible Dewatering Pump User Manual](#)

Tsurumi Pump LB-800

Tsurumi Pump LB-800 Submersible Dewatering Pump User Manual

Brand: Tsurumi Pump | Model: LB-800

1. PRODUCT OVERVIEW

The Tsurumi Pump LB-800 is a 1 HP, 115V submersible dewatering pump designed for efficient water removal in various applications. Its slimline design allows it to fit into 8-inch caissons, offering versatility. Constructed with high-quality materials like a urethane impeller and dual Silicon Carbide mechanical seal faces, it ensures durability and reliability. The top discharge design enhances motor cooling, enabling continuous operation even at low water levels and providing extended dry-run capability.



Figure 1: Tsurumi Pump LB-800 Submersible Dewatering Pump.

2. SETUP AND INSTALLATION

Before installation, ensure the pump is placed on a stable, level surface. The LB-800's slimline design is specifically engineered to fit into 8-inch caisson pipes, making it suitable for confined spaces. Connect the 50ft power cord to a compatible 115V power source. Always refer to the official [Installation Manual \(PDF\)](#) for detailed instructions and safety precautions.



LB-800

- 1 Top Discharge**
Flow-thru design provides motor cooling for continuous at low water operation and extended dry-run capability.
- 2 Durable Materials**
Polyurethane impeller and Silicon Carbide Mechanical seal faces allow for prolonged use in harsh settings
- 3 Slimline Design**
Designed to fit in an 8" pipe.



Figure 2: The slimline design of the LB-800 allows for easy placement in narrow spaces like caissons.

3. OPERATING INSTRUCTIONS

The Tsurumi LB-800 pump is designed for straightforward operation. Once properly installed and connected to power, the pump will activate upon power supply. Its top discharge design ensures maximum motor cooling efficiency, allowing for continuous duty operation even when water levels are low. The pump also features extended dry-run capability, reducing the risk of damage if water supply temporarily ceases.

3.1 Performance Characteristics

The LB-800 pump delivers a maximum flow rate of 82 Gallons Per Minute (GPM) and can achieve a maximum lifting height of 59 feet. Refer to the performance curve below for detailed flow rate versus total head characteristics.



LB-800

ELECTRIC SUBMERSIBLE PUMP

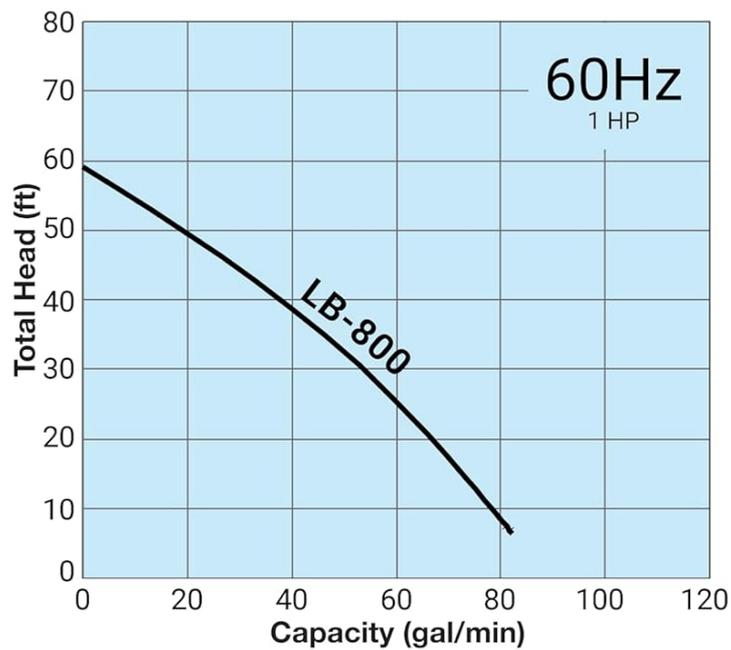


Figure 3: Performance curve for the Tsurumi LB-800 pump, illustrating capacity (gal/min) versus total head (ft).

3.2 Typical Applications

This pump is ideal for various dewatering tasks, including construction site dewatering, general dewatering, and pond applications. Its robust construction ensures reliable performance in demanding environments.



Figure 4: The LB-800 pump in typical dewatering applications, including construction sites and general flood areas.



Why Tsurumi?



Trusted Brand

Tsurumi is globally recognized for reliability.



Durability

Built to last in demanding environments.



Versatility

Wide range for diverse applications.



Efficient

High-performance with optimal flow rates.



Support

Excellent customer service and technical assistance.

Figure 5: The LB-800 pump effectively dewatering a pond, demonstrating its versatility.

3.3 Product Features

Key features contributing to the pump's performance and longevity:

- **Top Discharge:** Flow-through design provides motor cooling for continuous operation at low water levels and extended dry-run capability.
- **Durable Materials:** Features a polyurethane impeller and Silicon Carbide Mechanical seal faces for prolonged use in harsh settings.
- **Slimline Design:** Engineered to fit in an 8-inch pipe, enhancing versatility.

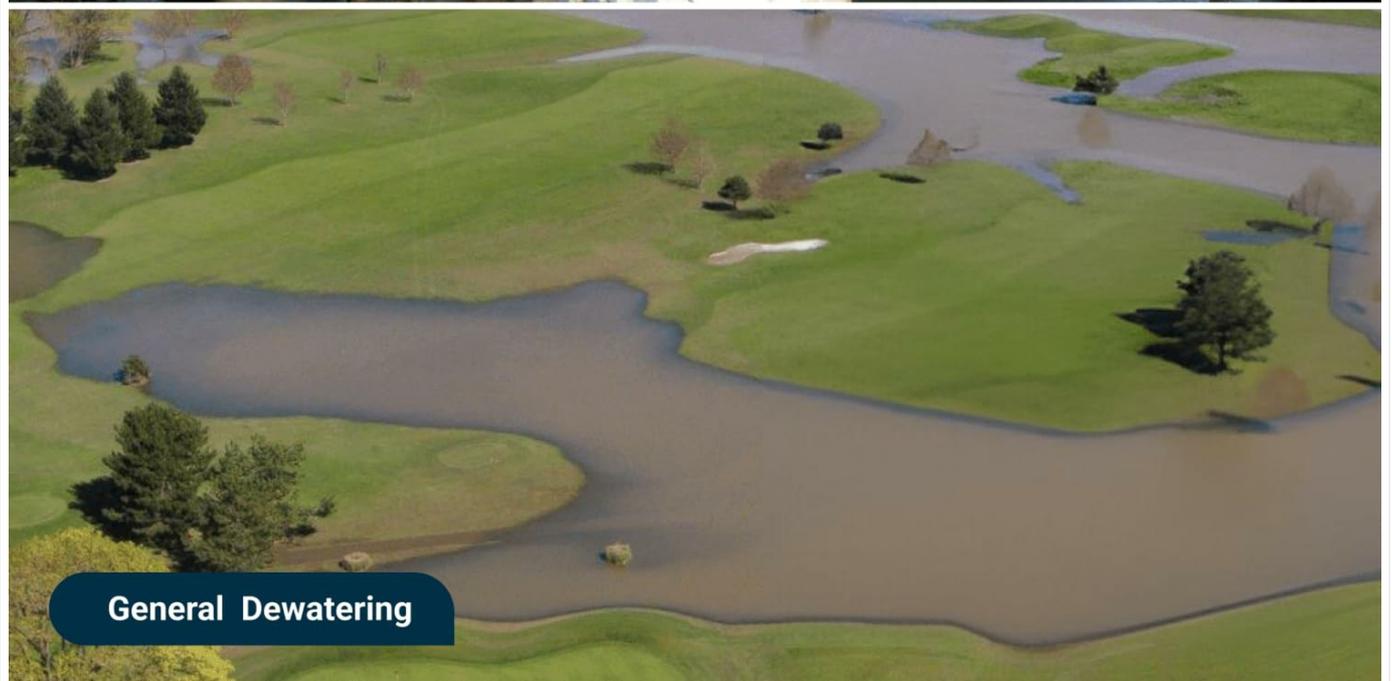


Figure 6: Visual representation of the LB-800's key features: Top Discharge, Durable Materials, and Slimline Design.

3.4 Official Product Video

Your browser does not support the video tag.

Video 1: "Tsurumi Pump, Built for Work" - An overview of Tsurumi Pump's commitment to reliable pumping solutions and their applications in various industries.

4. MAINTENANCE

Regular maintenance is crucial for ensuring the longevity and optimal performance of your Tsurumi LB-800 pump. Key maintenance tasks include:

- **Oil Changes:** Periodically change the oil as specified in the user manual to ensure proper lubrication of internal components.
- **Impeller and Seal Inspection:** Regularly inspect the urethane impeller and Silicon Carbide mechanical seal faces for wear or damage. Replace components as necessary.

- **Cleaning:** Keep the pump's exterior and intake free from debris to prevent clogging and maintain efficient operation.
- **Storage:** If storing the pump for an extended period, ensure it is clean, dry, and stored in a protected environment.

For detailed maintenance schedules and procedures, please consult the official [User Manual \(PDF\)](#).

5. TROUBLESHOOTING

This section provides general guidance for common issues. For comprehensive troubleshooting, refer to the official user manual.

Problem	Possible Cause	Solution
Pump does not start	No power, tripped circuit breaker, motor issue.	Check power connection, reset breaker, consult professional if motor is faulty.
Reduced flow rate	Clogged intake, worn impeller, discharge hose kinked.	Clear intake, inspect/replace impeller, straighten hose.
Pump runs but no water	Air lock, insufficient water level, clogged intake.	Reposition pump, ensure adequate water, clear intake.

6. PRODUCT SPECIFICATIONS

Specification	Value
Brand	Tsurumi Pump
Model Number	LB-800
Power Source	Corded Electric
Voltage	115 Volts
Horsepower	1 HP
Discharge Size	2 inches
Maximum Flow Rate	82 Gallons Per Minute
Maximum Lifting Height	59 Feet
Item Weight	29 Pounds
Product Dimensions	17"L x 10"W x 9"H
Material	Aluminum
Color	Blue

7. WARRANTY AND SUPPORT

The Tsurumi LB-800 pump comes with a **2-YEAR WARRANTY**. For any questions, concerns, or technical assistance, please contact Tsurumi (America), Inc. directly. Additional resources, including the full user manual and installation guide, are available for download:

- [User Manual \(PDF\)](#)
- [Installation Manual \(PDF\)](#)



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Related Documents - LB-800

	<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>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		GSZ-4/6-SERIES		SPECIFICATIONS			
<p>FEATURES</p> <ul style="list-style-type: none"> • Compact, high-capacity design • High efficiency • High flow rate • High head • High capacity • High reliability • High performance • High durability • High safety • High quality • High serviceability • High maintenance • High cost-effectiveness • High energy efficiency • High environmental friendliness • High noise reduction • High vibration reduction • High shock resistance • High impact resistance • High corrosion resistance • High wear resistance • High abrasion resistance • High sand handling • High sludge handling • High debris handling • High fiber handling • High string handling • High root handling • High trash handling • High paper handling • High plastic handling • High metal handling • High stone handling • High brick handling • High concrete handling • High asphalt handling • High gravel handling • High sand handling • High silt handling • High mud handling • High slurry handling • High wastewater handling • High industrial wastewater handling • High municipal wastewater handling • High stormwater handling • High groundwater handling • High surface water handling • High river water handling • High lake water handling • High sea water handling • High brackish water handling • High salt water handling • High acid water handling • High alkali water handling • High oil water handling • High grease water handling • High sludge water handling • High dewatering handling • High sand dewatering handling • High sludge dewatering handling • High wastewater dewatering handling • High industrial wastewater dewatering handling • High municipal wastewater dewatering handling • High stormwater dewatering handling • High groundwater dewatering handling • High surface water dewatering handling • High river water dewatering handling • High lake water dewatering handling • High sea water dewatering handling • High brackish water dewatering handling • High salt water dewatering handling • High acid water dewatering handling • High alkali water dewatering handling • High oil water dewatering handling • High grease water dewatering handling • High sludge water dewatering handling 		<p>APPLICATIONS</p> <ul style="list-style-type: none"> • Wastewater treatment • Industrial wastewater treatment • Municipal wastewater treatment • Stormwater management • Groundwater management • Surface water management • River water management • Lake water management • Sea water management • Brackish water management • Salt water management • Acid water management • Alkali water management • Oil water management • Grease water management • Sludge water management • Dewatering • Sand dewatering • Sludge dewatering • Wastewater dewatering • Industrial wastewater dewatering • Municipal wastewater dewatering • Stormwater dewatering • Groundwater dewatering • Surface water dewatering • River water dewatering • Lake water dewatering • Sea water dewatering • Brackish water dewatering • Salt water dewatering • Acid water dewatering • Alkali water dewatering • Oil water dewatering • Grease water dewatering • Sludge water dewatering 		<p>TECHNICAL DATA</p> <p>Model: GSZ-4/6-SERIES</p> <p>Capacity: 4/6 m³/min</p> <p>Head: 4/6 m</p> <p>Power: 4/6 kW</p> <p>Flow rate: 4/6 m³/h</p> <p>Efficiency: 4/6 %</p> <p>Speed: 4/6 rpm</p> <p>Material: 4/6</p> <p>Dimensions: 4/6 mm</p> <p>Weight: 4/6 kg</p> <p>Installation: 4/6</p> <p>Maintenance: 4/6</p> <p>Service life: 4/6 years</p> <p>Warranty: 4/6 years</p> <p>Price: 4/6 \$</p>		<p>CONTACT US</p> <p>Tsurumi Pump Co., Ltd.</p> <p>1-1-1, Higashi-Shinjuku, Shinjuku-Ku, Tokyo 162-0801, Japan</p> <p>Phone: +81-3-3344-1111</p> <p>Fax: +81-3-3344-1112</p> <p>Website: www.tsurumi-pump.com</p> <p>E-mail: info@tsurumi-pump.com</p> <p>Language: English</p>	

[Tsurumi Pump GSZ Series High Volume Dewatering and Sand Pumps Specifications](#)

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.