

TSURUMI PUMP Electric Submersible Pumps

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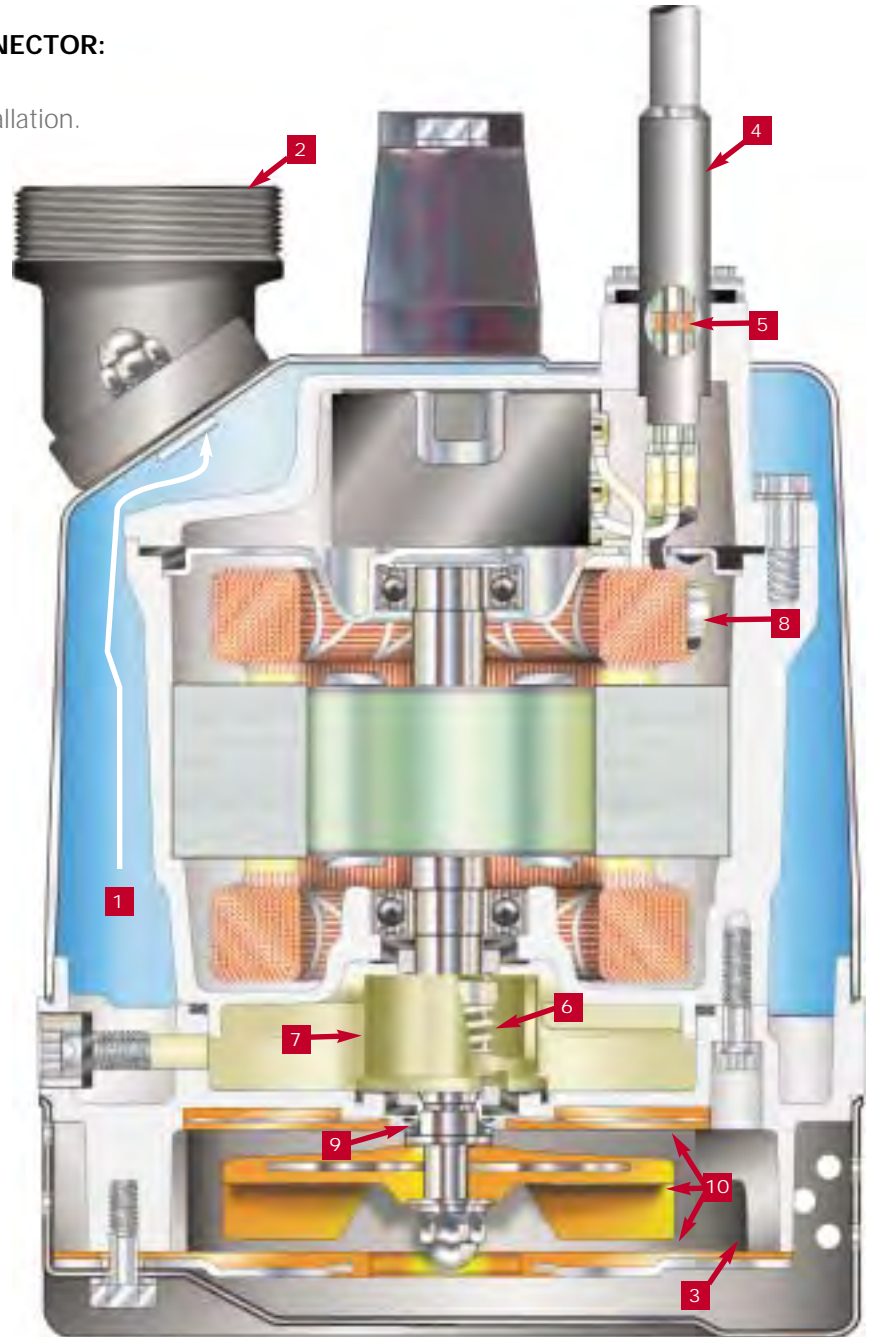
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LB 480/A Features

- 1 TOP DISCHARGE, FLOW THRU DESIGN**
- 2 MULTI-DIRECTIONAL DISCHARGE CONNECTOR:**
Can be configured for horizontal or vertical discharge. Providing for a more stable installation.
- 3 RUBBER CASING WITH LARGE ROUNDED CUT-WATERS:** Resists wear and degradation of performance due to abrasive particles.

Long-life by design

- 4 CABLE BOOT:** Prevents kinking at cable entrance by extending bending radius.
- 5 ANTI-WICKING BLOCK:** Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.
- 6 DOUBLE INSIDE MECHANICAL SEAL WITH SILICON CARBIDE FACES:**
Provides the longest operational life of any seal available.
- 7 OIL LIFTER:** Provides lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power.



Featured Model LB480



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8 MINIATURE THERMAL MOTOR PROTECTOR: Protects against, overheating & run-dry.

9 "V" RING SEAL PROTECTOR: Protects mechanical seal from abrasive particles.

10 URETHANE, SEMI-VORTEX IMPELLER & WEAR PLATES: Resists wear by abrasive particles and does not depend on close tolerances to maintain pump performance.



Tsurumi Impeller
polished, not worn by abrasive material.



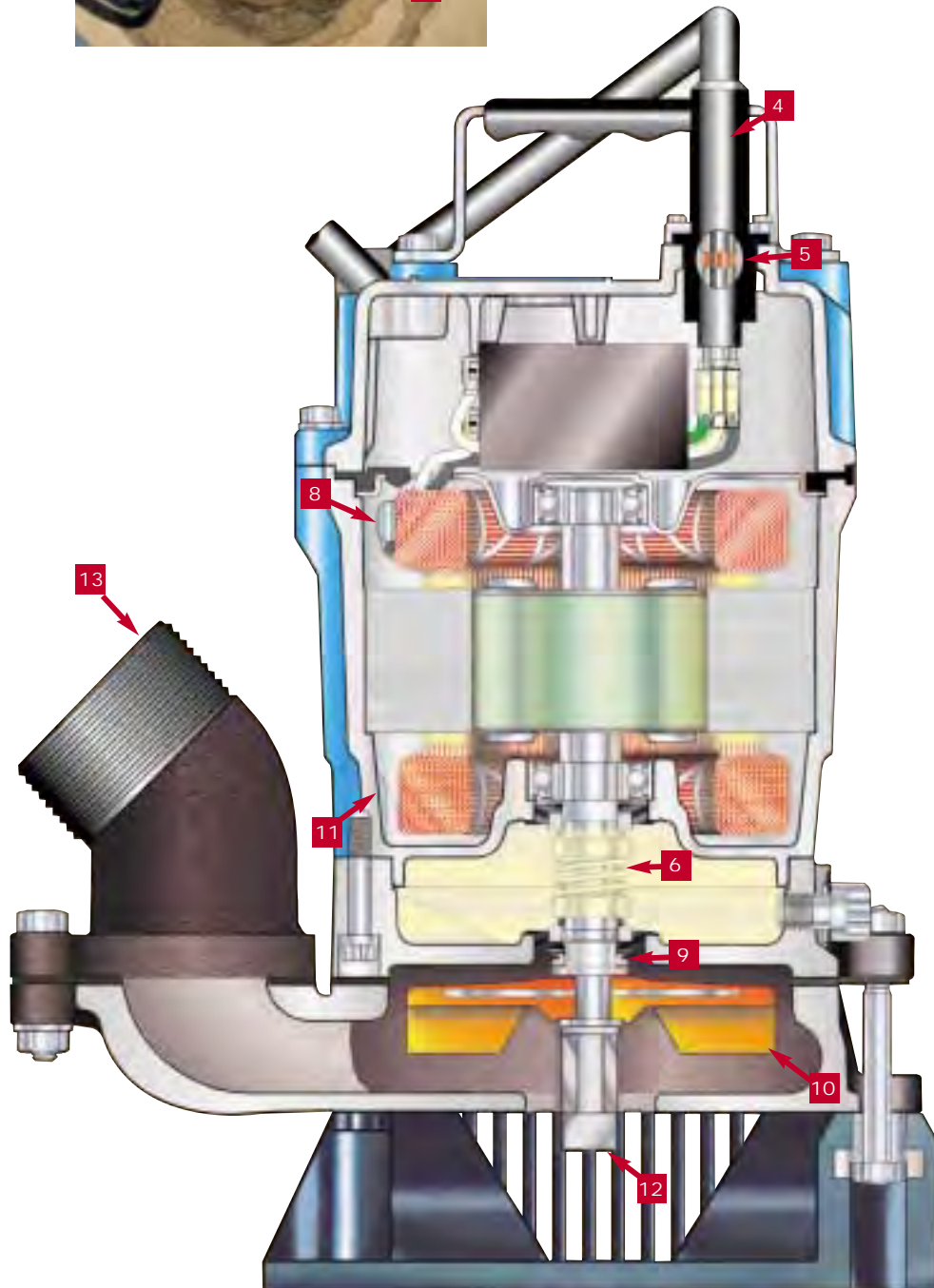
Competitor Impeller
is effectively worn out.

11 COPPER WINDINGS WITH CLASS E INSULATION: Operates at lower temperatures, extending insulation and bearing life.

HS Features

12 AGITATOR: Suspends sand and mud, allowing for sediment removal from sumps or basins.

13 45° ANGLED DISCHARGE CONNECTOR: Provides for a more stable installation for either vertical or horizontal discharge hose.



Model HS2.4S-62

(Not all features available on every Tsurumi submersible pump).

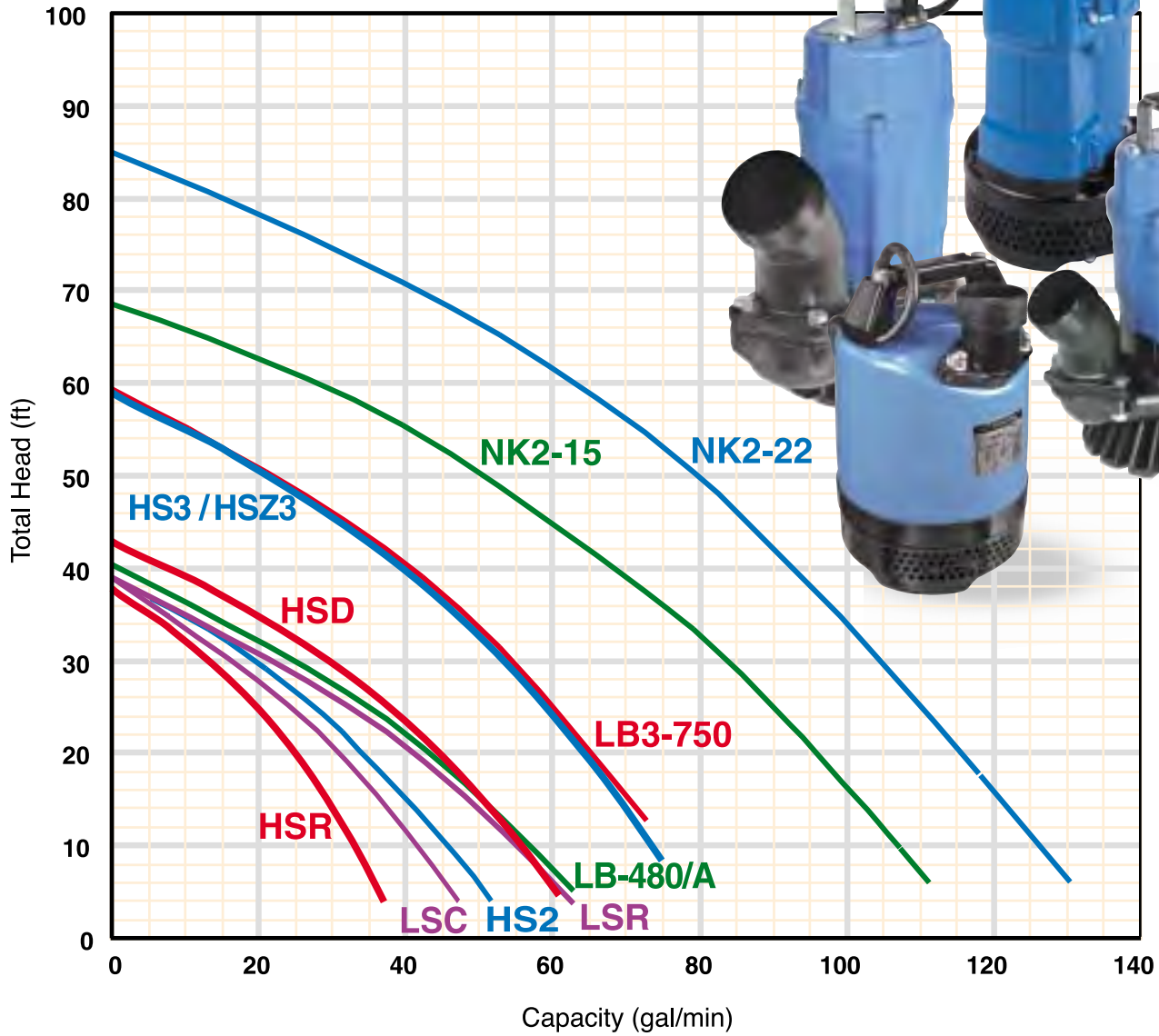
Electric Submersible Pumps

PERFORMANCE CURVES

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Powerful pumps built with durable materials in an easy handling design.

Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low water levels and extended dry-run capability.



LB-480 Features

- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)
- V-Ring Seal Protector protects mechanical seal from abrasive particles.



New: Multi-directional discharge connector

Optional Accessories

- TS-301 Float Switch for automatic operation.

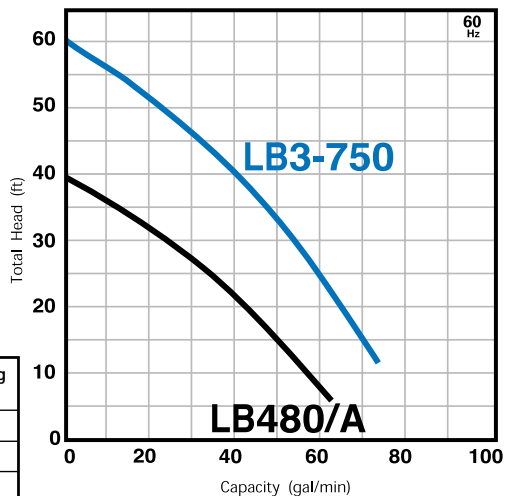


LB3-750 Features

- Designed to fit an 8" pipe.
- Up to 60' shut off head.
- Available in 220V single-phase for lower amperage draw and longer cable extensions.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)

Optional Accessories

- Float Switch for automatic operation TS-302 for 110V, TS-303 for 220V.
- 3-inch NTP Coupling available



Certified by Intertek Testing Services to UL and CSA standards for submersible construction pumps.

Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
LB-480	2	28	32	7 3/8	11 3/16	2
LB-480A	2	30	32	8 3/4	11 3/16	4 1/2
LB3-750	2	43	50	7 5/16	16 1/4	3 1/8

Electric Submersible Pumps

LB GENERAL DEWATERING PUMPS

Model LB-480A Automatic Submersible Pump handles like the non-automatic version in every aspect of construction site usage requiring a tough and durable pump.

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LB-480A Features

- No control panel or float switches required.
- Handles like the non-automatic pump - no special installation procedures.
- Requires very small space to operate - only 8 3/4" diameter.
- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)
- V-Ring Seal Protector protects mechanical seal from abrasive particles.
- Environmentally friendly, reducing electric consumption and seepage noise.



Technical Features of EL-1 Relay Unit

- Sensitive electrodes detect water to start pump operation even when foreign materials are present.
- Internal timer eliminates chattering operation in rough water to extend motor life.
- Relay sensor completely molded in resin and covered by rubber case for protection against rough handling.
- Jobsite tested for more than 30,000 on-off cycles without failure or damage.

Certified by Intertek Testing Services to UL and CSA standards for submersible construction pumps.

Electrodes submerged in water closing circuit for electric current. The pump starts to operate.	Water level has fallen. Electrodes in air opening circuit for electric current. Timer starts and pump continues to operate.	Timer continues pump operation for approximately one minute. If water again contacts, the electrodes timer is cancelled and pump continues operating.	Timer stops after approximately one minute.	Water level rises to contact electrodes and the pump restarts.
Pump begins operating. Water level falls.	Pump continues operating. Water level falls.	Pump continues operating. Water level falls.	Pump stops. Water level rises.	Pump begins operating. Water level falls.
