



CONTRACTOR PUMPS & GENERATORS  
**BUILT FOR WORK**

Electric Submersible Pumps • Engine Driven Pumps • Generators • Accessories



[www.tsurumipump.com](http://www.tsurumipump.com)

# **TSURUMI PUMP** Electric Submersible Pumps

## LB Series • HS Series Features

### Long-life by design

**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.

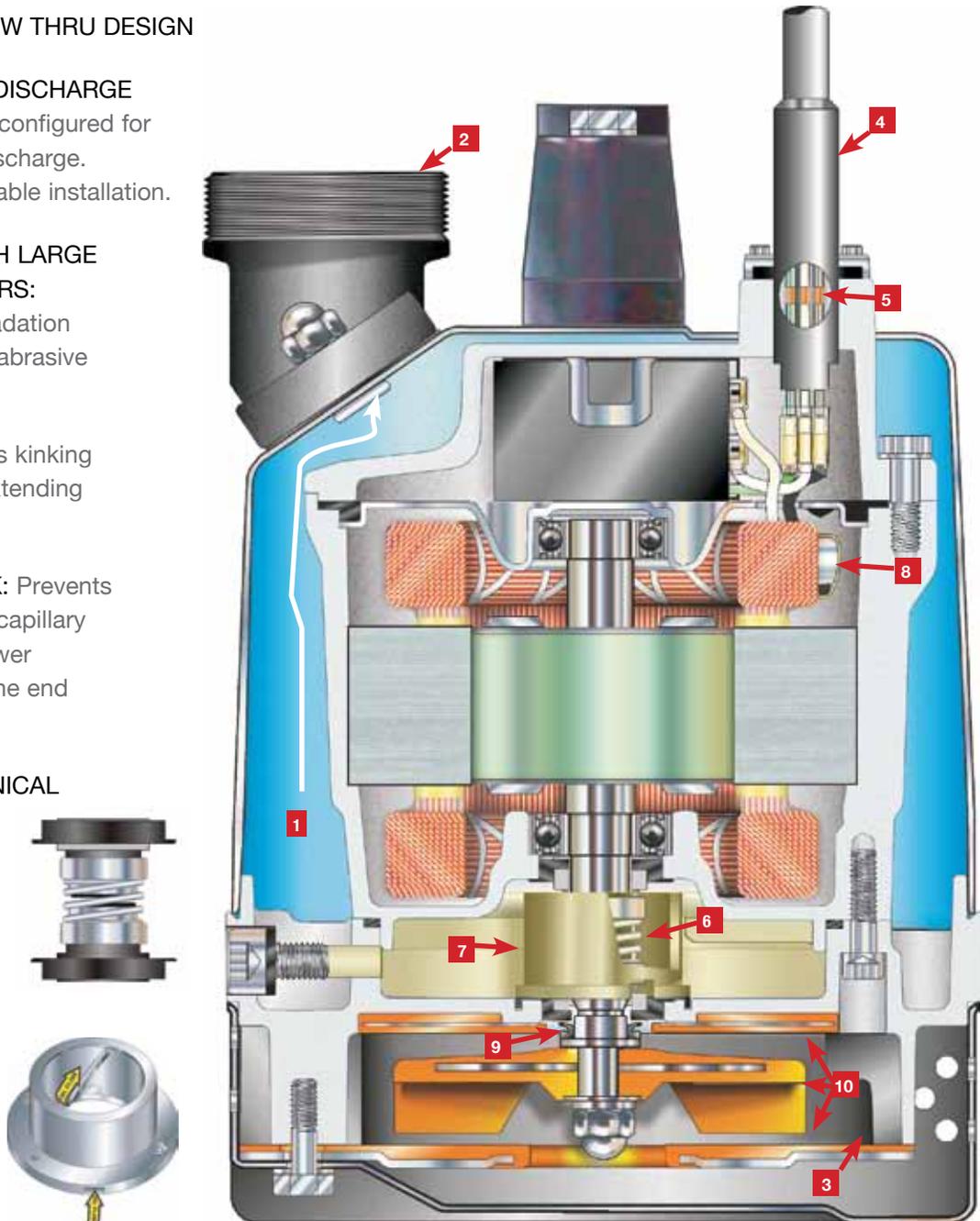
**3** RUBBER CASING WITH LARGE ROUNDED CUT-WATERS: Resists wear and degradation of performance due to abrasive particles.

**4** CABLE BOOT: Prevents kinking at cable entrance by extending bending radius.

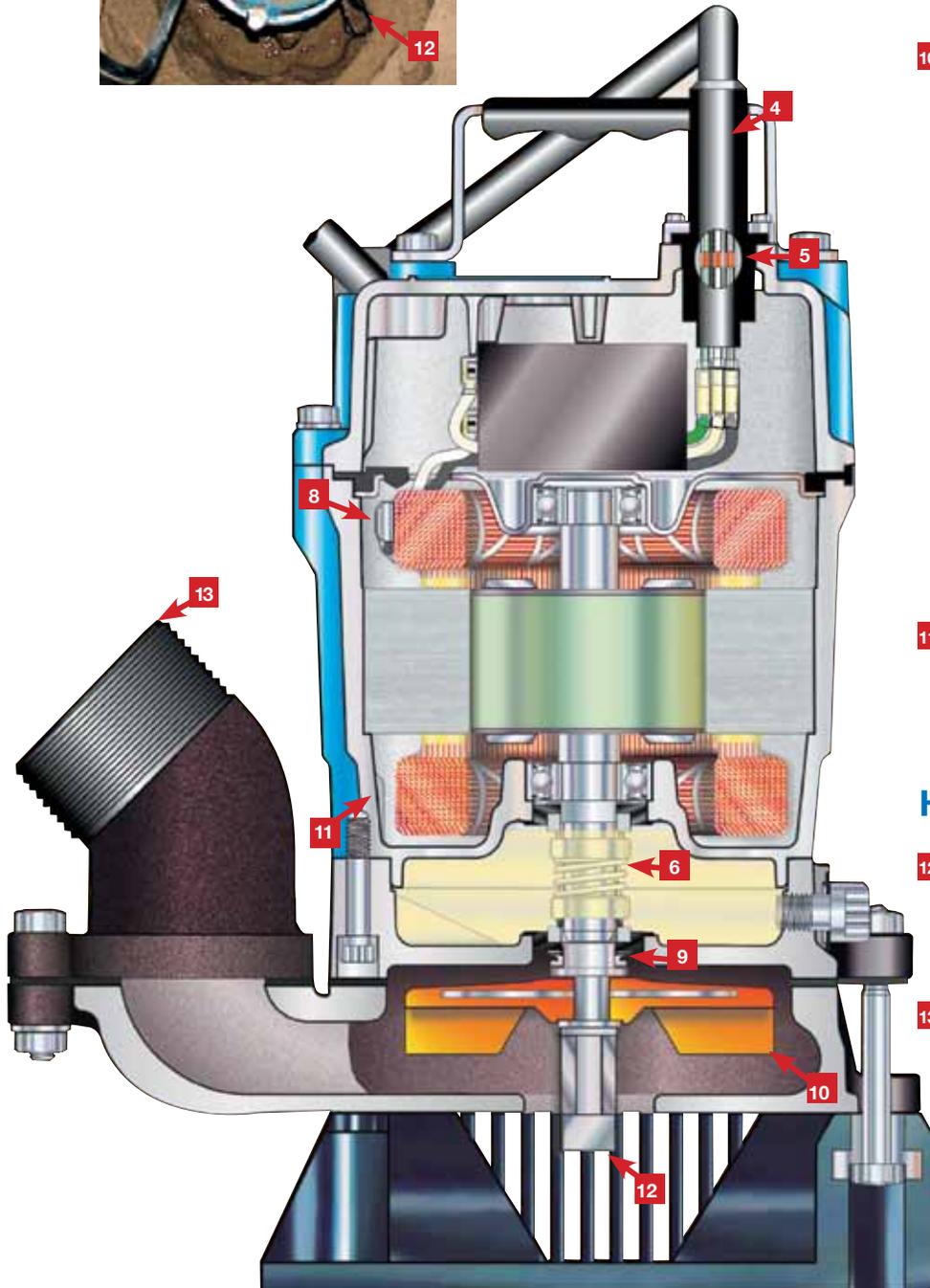
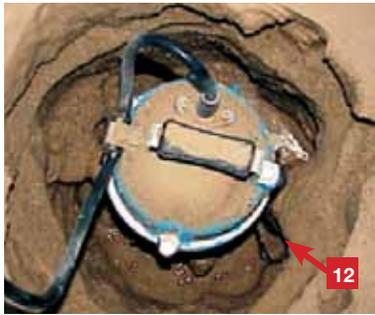
**5** ANTI-WICKING BLOCK: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.

**6** DUAL INSIDE MECHANICAL SEAL WITH SILICON CARBIDE FACES: Provides longer 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



Featured Model HS2.4S

- 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.

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

# Electric Submersible Pumps

## GROUP PERFORMANCE RANGE

### Reliable and cost-effective pumps

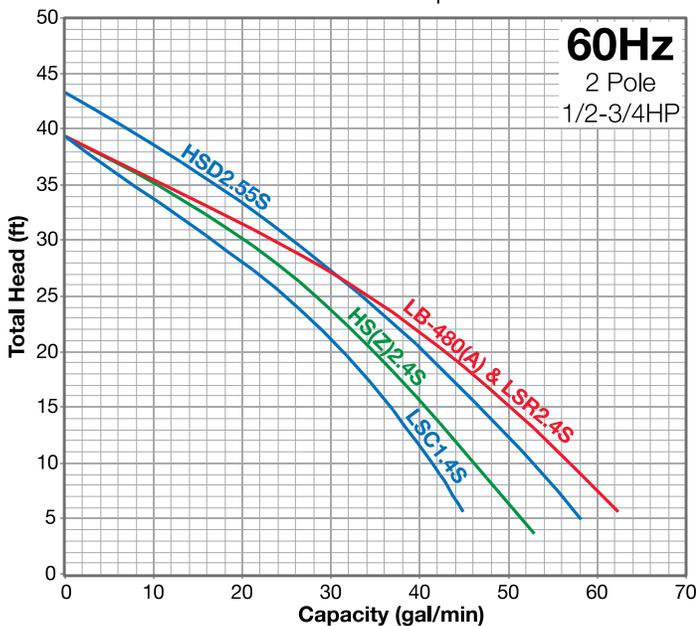
enable Tsurumi to remain an industry leader in the rental and construction markets. Our customers know that while many pumps may look the same, only Tsurumi incorporates the most durable components into the final manufactured product.



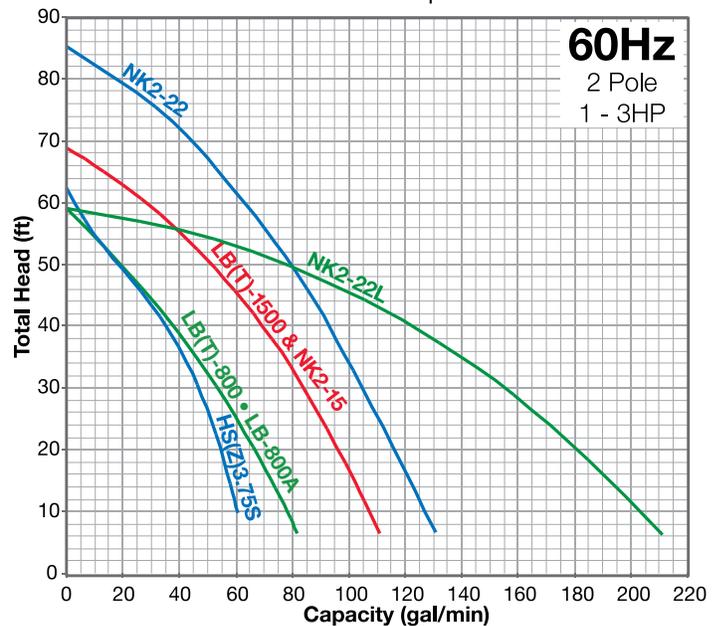
## GROUP PERFORMANCE RANGE

### ELECTRIC SUBMERSIBLE PUMPS: SINGLE PHASE & THREE PHASE

Electric Submersible Pumps: Under 1HP



Electric Submersible Pumps: 1HP or more



# Electric Submersible Pumps

## LB-480 • LB-480A DEWATERING PUMPS

**LB-480 Slimline design pump** allows to fit into 8" pipes. 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-480A Automatic Submersible Pump** performs like the non-automatic version in every aspect of construction site usage requiring a tough and durable pump.



LB-480

### LB-480 Features

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

### Optional Accessories

- TS-301 Float Switch for automatic operation.

### LB-480A Features

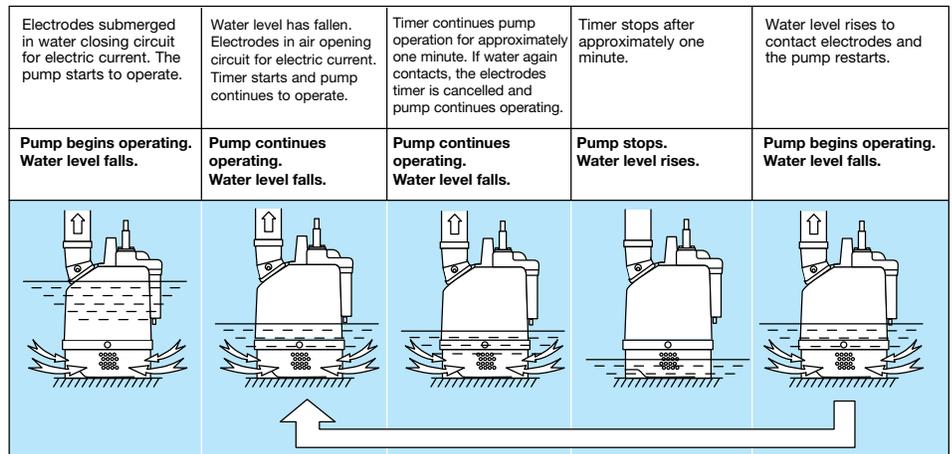
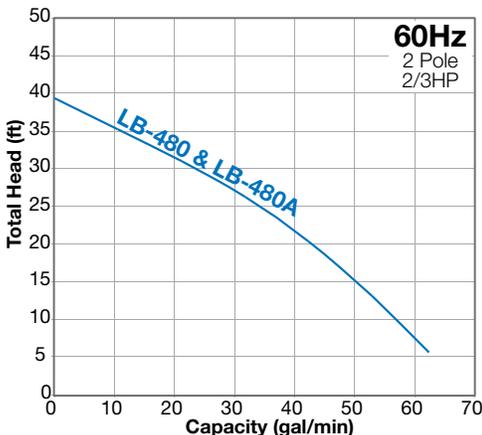
- No control panel or float switches required.
- Performs like the non-automatic pump with no special float installation required.
- Requires very small space to operate - only 8 3/4" diameter.
- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability with maintaining pump performance.
- Oil Lifter provides lubrication of the seal faces. (Patented)
- V-Ring Seal Protector designs mechanical seal from abrasive particles.
- Environmentally friendly, reducing electrical costs and operational noise.



LB-480A

### Technical Features of EL Relay Unit (Level Sensor)

- Sensitive electrodes detect water to start pump operation even when foreign materials are present.
- Internal timer eliminates frequent on/off 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 Service to UL and CSA standards for submersible construction pumps.

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LB-480	2/3	Single	2	32	7 11/16	11 1/4	2	28
LB-480A	2/3	Single	2	32	8 3/4	11 1/4	4 1/2 *	30

\* Pump Starting Water Level

# Electric Submersible Pumps

## LB(T)-800 • LB-800A DEWATERING PUMPS



**LB-800 • LBT-800 Slimline design pumps** allow to fit into 8" pipes. Powerful pump built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low levels and extended dry-run capability.

### LB-800 (Single Phase) • LBT-800 (Three Phase) Features

- Designed to fit an 8" pipe.
- Up to 59' shut off head.
- Available in 230V single-phase for lower amperage draw and longer cable extensions.
- Dual Inside Mechanical Seal With SiC faces provides longer operational life.
- Oil Lifter provides lubrication of the seal faces. (Patented)
- LB-800 (Single Phase) and LBT-800 (Three Phase) are available.

### Optional Accessories

- Float Switch for automatic operation TS-302 for 115V, TS-303 for 230V.

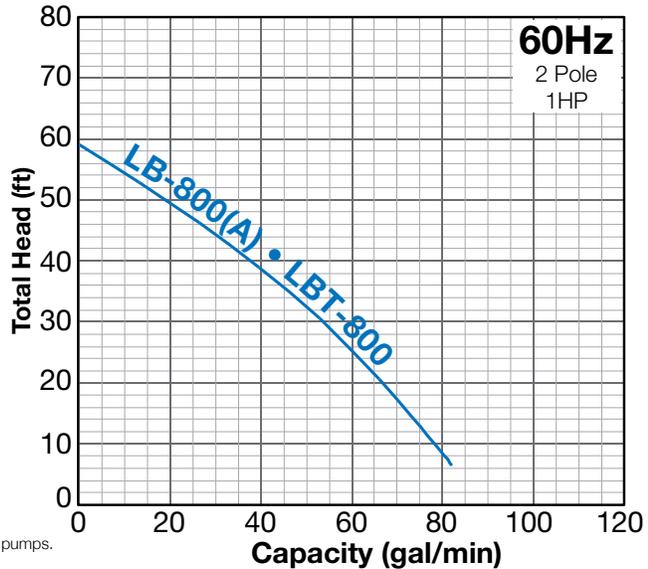


**NEW Dewatering pump LB-800A** features the Relay Unit (Level Sensor) which incorporates low voltage, stainless steel probes, epoxy and rubber encapsulated timing relay, that turns the unit off when liquid is not present. It saves energy and extends the life of the motor and bearings!



### LB-800A (Single Phase) pump Features

- Up to 59' shut off head.
- Dual Inside Mechanical Seal With SiC faces provides longer operational life.
- Oil Lifter provides lubrication of the seal faces. (Patented)



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

### LB-800 • LBT-800

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LB-800	1	Single	2	50	7 9/16	13 7/16	2	35
LBT-800	1	Three	2	50	7 9/16	13 7/16	2	35

### LB-800A

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Pump Starting Water Level (in.)	Shipping Weight (lbs.)
					Diameter	Height		
LB-800A	1	Single	2	50	8 3/4	13 7/16	6 3/4	36

# Electric Submersible Pumps

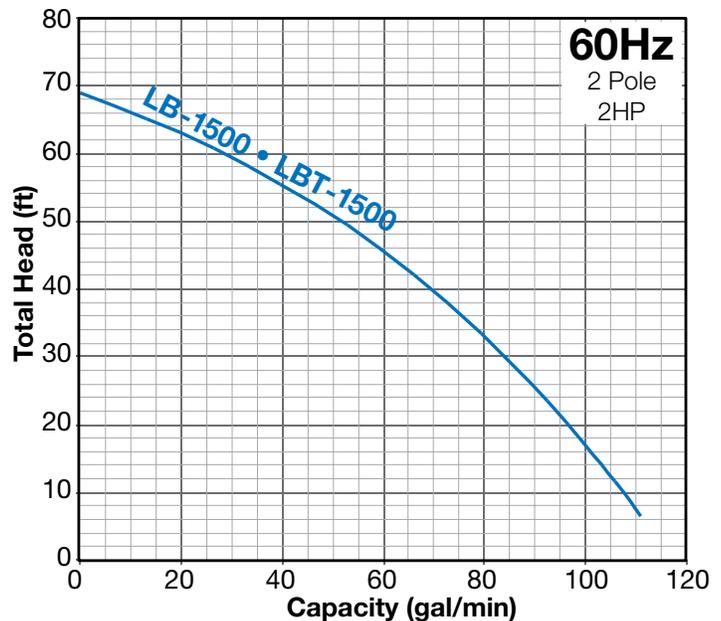
## LB-1500 • LBT-1500 DEWATERING PUMP

**LB-1500 • LBT-1500 Slimline design pumps** fit into 8" pipes. Powerful pump built with durable materials in an easy handling design. Top discharge provides maximum motor cooling efficiency allowing continuous duty operation at low levels and extended dry-run capability.



### LB-1500 (Single Phase) • LBT-1500 (Three Phase) Features

- Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry.
- Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.
- Oil Lifter: Lubricates the seal faces down to 1/3 of normal oil level and extends seal life by ten times using no additional power.
- Dual inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber provides for the most durable seal design available.
- High Chrome Iron Semi-Open Impeller: Resists wear from abrasive particles.
- Synthetic Rubber Pump Casting: For wear resistance and easy maintenance.
- V-Ring System: Protects the shaft seals.



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Pump Starting Water Level (in.)	Shipping Weight (lbs.)
					Diameter	Height		
LB-1500	2	Single	*2 or 3	50	7 3/8	23 5/16	3 1/8	85
LBT-1500	2	Three	*2 or 3	50	7 3/8	23 5/16	3 1/8	85

\*2" is optional

# Electric Submersible Pumps

## HS HSZ TRASH PUMP



### HS TRASH PUMP

Durable trash pumps in two sizes—a 1HP 3-inch discharge and a 1/2HP 2-inch discharge. Both designed to pump sand, solids and debris with minimal wear and clogging.

### HSZ AUTOMATIC TRASH PUMP

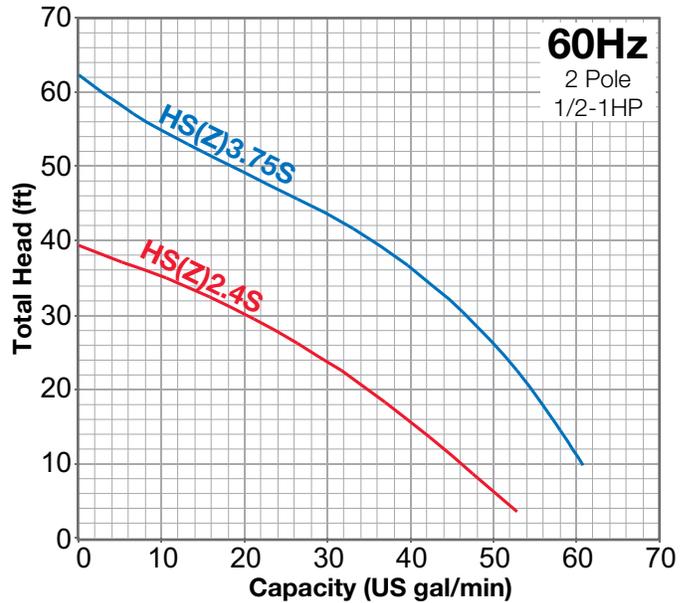
Automatic trash pumps in two sizes, designed to pump sand, solids and debris with minimal wear and clogging.

### HS HSZ TRASH PUMP Features

- Built-in shaft mounted agitator suspends solids.
- Urethane Semi Vortex Impeller for maximum durability and pump performance.
- Dual Inside Mechanical Seal With SiC faces provides longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles.

#### Optional Accessories

- Vertical Discharge Coupling.
- 2-inch NPT coupling available for HS(Z)3.75S.

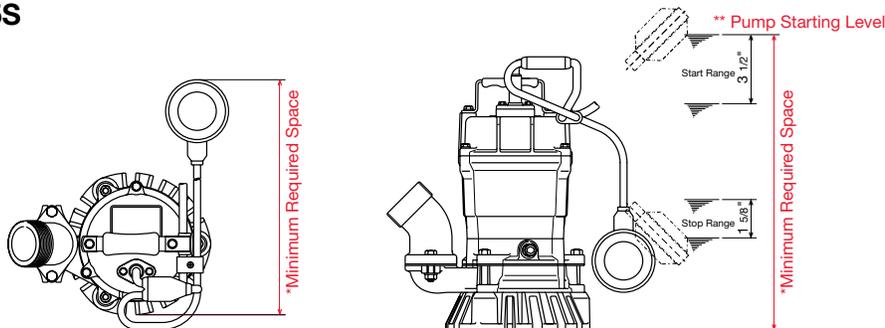


Certified by Intertek Testing Service to UL and CSA standards for submersible construction pumps.

### HS2.4S / 3.75S

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
HS2.4S	1/2	Single	2	20	10 1/16	12 15/16	3 1/2	30
HS3.75S	1	Single	3	32	12 7/16	15 1/4	3 1/2	49

### HSZ2.4S / 3.75S



Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		**Pump Starting Water Level (inch)	Shipping Weight (lbs.)
					*Diameter	*Height		
HSZ2.4S	1/2	Single	2	20	13 1/2	15 1/8	15 1/8	30
HSZ3.75S	1	Single	3	32	13 1/2	17 1/2	17 1/2	49

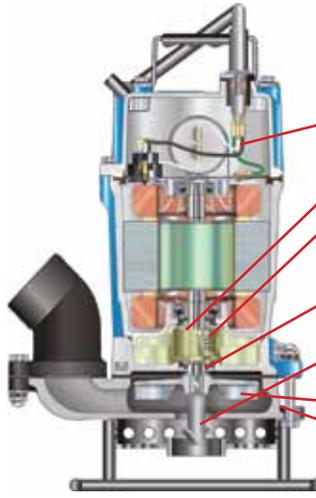
\*Minimum Required Space

\*\*Please refer HSZ dimension drawing above

# Electric Submersible Pumps

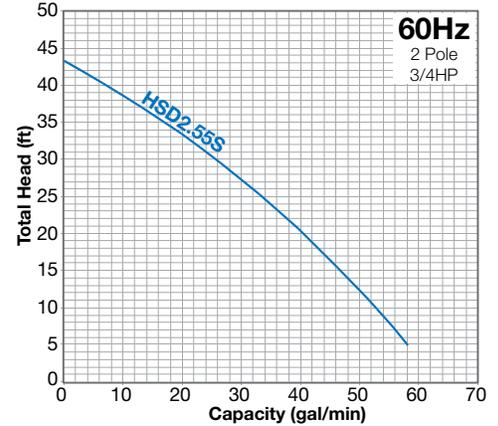
## HSD SERIES SAND PUMP

**EXTREME DURABLE TRASH PUMP:** Pump sand, solids and debris with minimal wear and clogging.



### HSD Series Features

- Anti-wicking block prevents water incursion.
- Oil Lifter extends seal life by ten times.
- Dual Inside Mechanical Seal with silicon carbide faces provides longer operational life of any seal available.
- V-Ring Seal design protects mechanical seal from abrasive particles.
- Built-in larger shaft mounted agitator suspends solids.
- High Chromium Iron impeller.
- Ductile Iron Casing.
- 3/4 HP motor; larger than HS2.4S.
- Easy pump end disassembly by removing only 3 nuts.



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
HSD2.55S	3/4	Single	2	32	9 3/4	15 3/8	4 1/8	36

## NK HEAVY DUTY HIGH HEAD PUMP

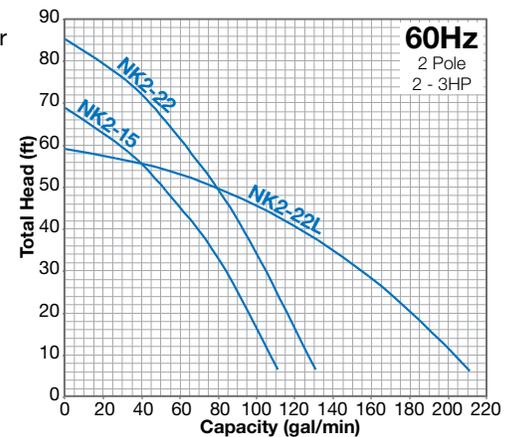
Heavy duty, high head pumps capable of handling abrasive materials with minimal wear.

### NK2-15/2-22/2-22L Features

- Terminal board for voltage reconnect allows for change from 110V to 220V (NK2-15 only).
- **NK2-15/2-22:** Semi Vortex Impeller and Synthetic Rubber Wear Plates for maximum durability and maintaining pump performance.
- **NK2-22L:** Semi-Open Impeller.
- Dual Inside Mechanical Seal With SiC faces provides longer operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent)
- V-Ring Seal design protects mechanical seal from abrasive particles.

#### Optional Accessories

- TS-303 Float Switch for automatic operation (220V only).
- Sand kit to suspend solids and prevent clogging.
- 2-inch NPT coupling available.



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
NK2-15	2	Single	3	32	9 7/16	24 1/2	3 1/4	80
NK2-22	3	Single	3	32	9 7/16	24 1/2	3 1/4	78
NK2-22L	3	Single	3	32	9 1/4	26 1/2	4 3/4	84

# Electric Submersible Pumps

## LSR GROUND DRAINAGE PUMP

Pump holds suction for drainage to 0.2 inch water level.

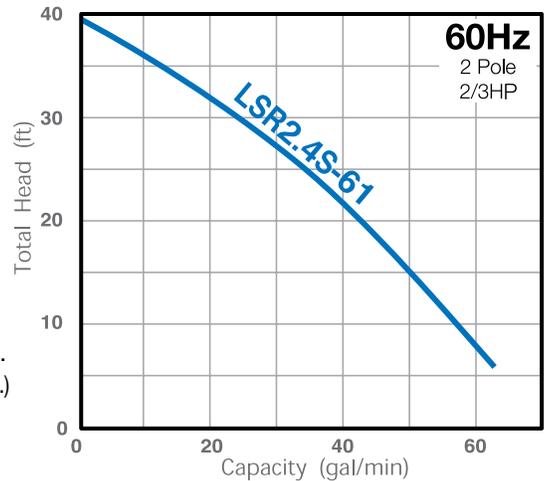


### LSR2.4S Features

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

### Optional Accessory

- TS-301 Float Switch for automatic operation. (Use of float switch will not permit low level pumping.)



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LSR2.4S	2/3	Single	2	32	8 1/4	11 3/8	0.2	28

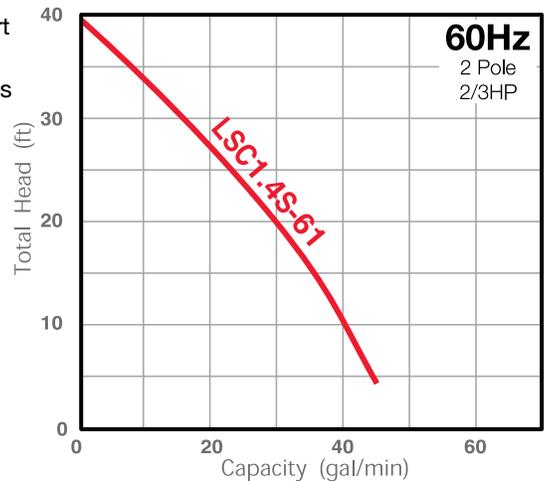
## LSC GROUND DRAINAGE PUMP

Original residue dewatering pump; able to pump down to the floor, even the smallest puddle can be pumped dry. LSC drainage pump is the best for complete drainage of flat surfaces where a sump is not available.



### LSC1.4S Features

- Prime pump through discharge outlet for start up at any water level.
- Internal check valve holds prime and prohibits back flow through pump when stopped.
- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance.
- Dual Inside Mechanical Seal With SiC faces provides longer operational life.
- Oil Lifter provides lubrication of the seal faces. (Patented)
- V-Ring Seal design protects mechanical seal from abrasive particles.



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Height		
LSC1.4S	2/3	Single	3/4	20	7 11/16	12 7/16	0.04	29

# Electric Submersible Pumps

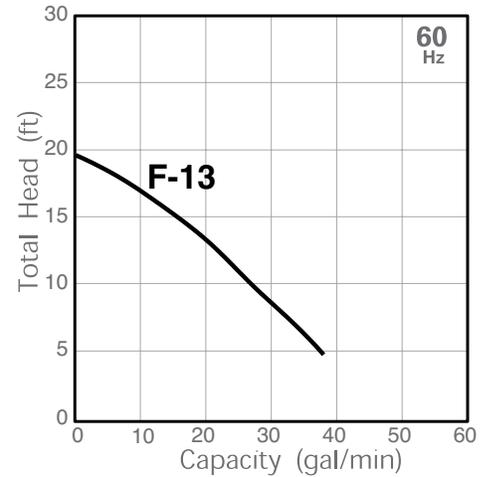
## F-13 UTILITY PUMP



Oil free economical submersible pumps for clean surface water application. With built-in check-valve for houses, yards and gardens. Available ready to plug-in, with built-in level control, 1 1/4" or 3/4" NPT discharge.

### F-13 Features

- Completely oil free air filled motor protected by 3 oil seals.
- Built-in thermal motor protector.
- Incorporates a check valve built into the discharge.
- Pump can be operated either manual or automatic.
- 1-1/4" NPT discharge with garden hose adaptor (3/4").
- Easy grip handle design.
- 1 year warranty.



Model	Max. Capacity (GPM)	Max. Head (ft)	Discharge Size (in) - Internal Thread	Nominal HP	RPM	Rated Current at 115V (amps)	Standard Cable Length (ft)	Shipping Weight (lbs.)
F-13	1-1/4	19	3/4	1/4	3450	4.2	10	11

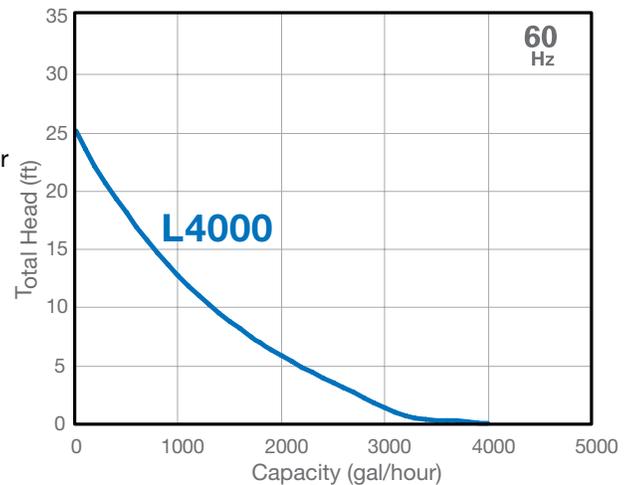
## L4000 SERIES DC PUMP



Designed to meet and exceed the tough demands of commercial and recreational duty.

### L4000 Features

- 1 1/2" and 2" Discharge Ports
- Liquid Cooled Motor
- Universal Mounting Base
- Double-Ball Bearing 12 Pole Motor
- Mechanical Shaft Seal
- Salt Water Tough
- 1 year warranty



Model	Max. Capacity (GPH)	Max. Head (ft)	Body Material	Discharge Size (in) & Parts Material	Impeller	Shaft Seal	Voltage (V)	Standard Cable Length (ft)	Shipping Weight (lbs.)
L-4000	4000	25	High Impact ABS Thermo-Plastic	1-1/2 & 2 Polypropylene	Glass/Nylon Composite	Mechanical (Carbon/Ceramic)	12	6	5.4

# Electric Submersible Pumps

## LH LHW THREE PHASE SLIMLINE PUMP

### Fits in an 8 inch pipe!

Tsurumi introduces an ultra-slim pump with very high head that fits inside an 8 inch pipe. Ideal for deep-well pre-dewatering.



LH23.0W

#### LH LHW Slimline Features

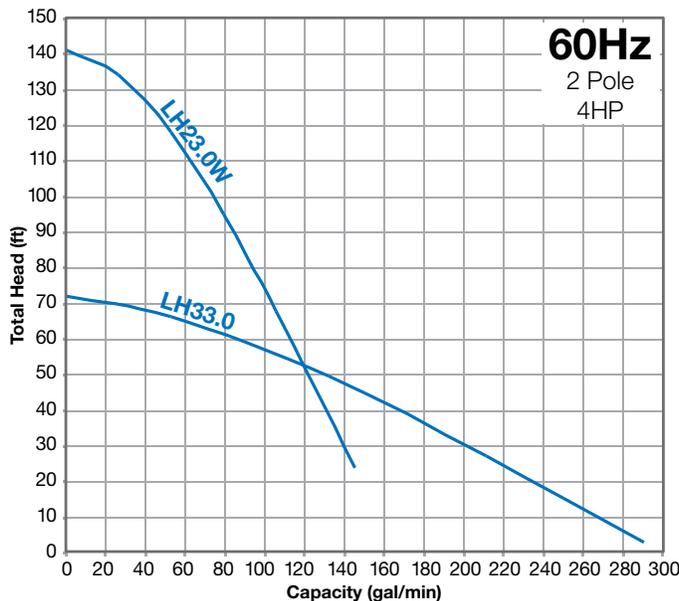
- 1** Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry.
- 2** Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.
- 3** Oil Lifter (Patented): Lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power.
- 4** Dual Inside Mechanical Seal with Silicon Carbide Faces: Provides longer operational life of any seal available.
- 5** Ball Bearings: Permanently Lubricated, Double Shielded, Single Row, Deep Groove, High Temperature C3 Ball Bearings, Rated B-10=60,000 Hrs.
- 6** High Chrome Iron Semi-Open Impeller: Resists wear from abrasive particles.
- 7** Ductile Iron Casing: Resists wear and reduction of performance due to abrasive particles.



LH23.0W



LH33.0



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Pump Weight (lbs.)
					Diameter	Height		
LH23.0W	4	Three	2	65	7 5/16	24 13/16	7 7/8	101
LH33.0	4	Three	3	65	7 5/16	25 3/8	5 7/8	93

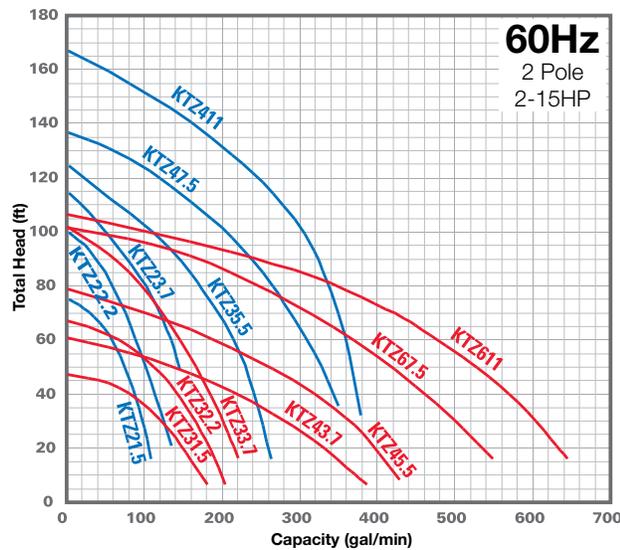
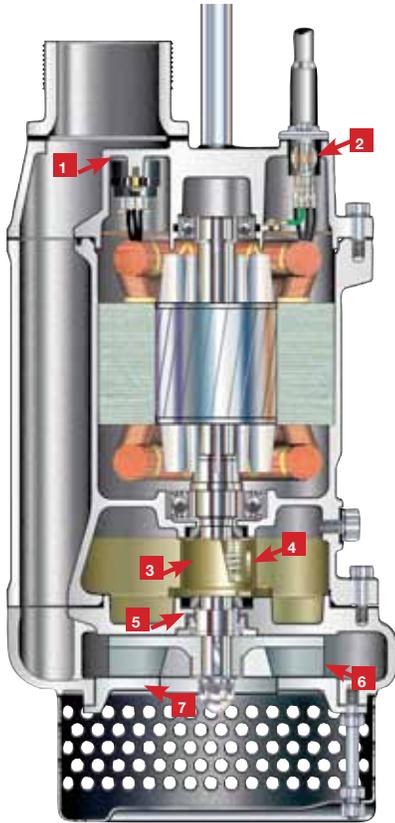
# Electric Submersible Pumps

## KTZ THREE PHASE DEWATERING PUMPS

Designed to withstand the most demanding conditions found in the construction, aggregate and mining markets. Tsurumi KTZ Series dewatering pump easily converts between high head and high volume performance with a simple change of impeller and wear plate. Wide range of sizes for any job.

### KTZ Series Features

- 1** Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry.
- 2** Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.
- 3** Oil Lifter: Lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power.
- 4** Dual Inside Mechanical Seal with Silicon Carbide Faces: Provides longer operational life of any seal available.
- 5** Lip Seal Protector: Protects mechanical seal from abrasive particles.
- 6** High Chrome Iron Semi-Open Impeller: Resists wear by abrasive particles.
- 7** Field Adjustable/Replaceable, Ductile Iron Wear Plate: Resists wear by abrasive particles, and is easily adjusted to maintain pump performance.



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

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Pump Weight (lbs.)
					Diameter	Height		
KTZ21.5	2	Three	2	50	9 1/4	21 9/16	4 3/4	66
KTZ31.5	2	Three	3	50	9 1/4	21 9/16	4 3/4	66
KTZ22.2	3	Three	2	50	9 1/4	22 3/8	4 3/4	75
KTZ32.2	3	Three	3	50	9 1/4	22 3/8	4 3/4	75
KTZ23.7	5	Three	2	50	11 1/8	25 1/16	5 7/8	139
KTZ33.7	5	Three	3	50	11 1/8	25 1/16	5 7/8	139
KTZ43.7	5	Three	4	50	11 1/8	25 1/16	5 7/8	139
KTZ35.5	7 1/2	Three	3	50	12 1/16	27 1/16	5 7/8	181
KTZ45.5	7 1/2	Three	4	50	12 1/16	27 1/16	5 7/8	181
KTZ47.5	10	Three	4	50	13	28 1/8	7 1/2	231
KTZ67.5	10	Three	4 or *6	50	13	28 1/8 or 30 11/16	7 1/2	236
KTZ411	15	Three	4	50	14 11/16	31 3/4	7 1/2	293
KTZ611	15	Three	4 or *6	50	14 11/16	31 3/4 or 30 3/16	7 1/2	300

\*6 " Discharge Bore for KTZ67.5 & KTZ611 is optional

# Electric Submersible Pumps Specifications

LB-480(A) • LB-800(A) • LB-1500



	<b>LB480-62</b> Dewatering	<b>LB480A-62</b> Automatic Operation	<b>LB-800</b> Slimline Pump	<b>LB-800A</b> Slimline Pump Automatic Operation	<b>LB-1500</b> Slimline Pump		
<b>FLUID</b>	Max. Capacity (GPM)	62.4	62.4	82	82	111	
	Max. Head (ft)	39.5	39.5	59	59	69	
	Solid Diameter (inches)	1/4	1/4	1/4	1/4	5/8	
	<b>PUMP</b>	Impeller Type	Semi-Votex	Semi-Votex	Semi-Votex	Semi-Vortex	Semi-Open
		Impeller Material	Urethane Rubber	Urethane Rubber	Urethane Rubber	Urethane Rubber	High Chrome
		Casing Material	Etylene Propylene Rubber	Etylene Propylene Rubber	Butadiene Rubber and Natural Rubber	Butadiene Rubber and Natural Rubber	Butadiene Rubber Natural Rubber & Steel
		Wear Plate Material	Urethane Rubber	Urethane Rubber	Urethane Rubber	Urethane Rubber	Natural Rubber
		Shaft Seal - Type /Material	Double inside mechanical seal with Silicon Carbide on Silicon Carbide faces on lower seals and Carbonon Ceramic Faces on upper seals.				
		Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)				
	Seal Lubricant - Amount (ounces)	5.2	5.2	5.2	5.2	12.5	
Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter		
Discharge Connection	2" NPT Coupling	2" NPT Coupling	2" NPT Coupling	2" NPT Coupling	3" NPT Coupling (2" is optional)		
<b>MOTOR</b>	Motor Output (hp)	2/3 hp	2/3 hp	1 hp	1 hp	2 hp	
	Phase	Single	Single	Single	Single	Single	
	Voltage (V)	110V	110V	115V or 230V	115V or 230V	115V or 230V	
	Amperage - Rated Current	6.1	6.1	9.6 - 115 V 5.1 - 230V	9.6 - 115V 5.1 - 230V	26.2 - 115V 13.2 - 230V	
	Amperage - Starting Current	12.5	12.5	40.4 - 115V 21.2 - 230V	40.4 - 115V 21.2 - 230V	112 - 115V 56 - 230V	
	Type	Continuous duty, Air filled, 3600RPM, 60Hz					
	Bearings	Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours					
	Insulation Class	E	E	E	E	B	
	Motor Protection (Built-In)	Miniature Protector	Miniature Protector	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector	
	Plug Configuration (Nema)	5-15P	5-15P	5-15P(115V) No Plug (230V)	5-15P(115V) No Plug (230V)	No Plug	
	Cable - # of Conductors x AWG	3C x 16 AWG	3C x 16 AWG	3C x 14 AWG	3C x 14 AWG	3C x 12 AWG(115V) 3C x 14 AWG(230V)	
	Std. Cable Length (ft)	32	32	50	50	50	
	Max. Cable Length (ft)	62	62	55 (115V), 190 (230V)	55 (115V), 190 (230V)	62 (115V) 185 (230V)	
	Recommended Generator Capacity (watts)	2700	2700	4600	4600	8400	
	Optional Float Switch	TS-301	n/a	TS-302(115V) TS-303(230V)	TS-302(115V) TS-303(230V)	TS-303 (230V Operation Only)	
	<b>DIMENSION</b>	Max. Diameter (inches)	7 3/8	8 3/4	7 9/16	8 3/4	7 3/8
Max. Height (inches)		11 1/4	11 1/4	13 7/16	13 7/16	23 5/16	
Continuous Running Water Level (in.)		2	4 1/2* * Pump Starting Water Level	2	6 3/4* * Pump Starting Water Level	3 1/8	
Shipping Weight (lbs.)		28	30	35	38	85	

# Electric Submersible Pumps Specifications

HS2.4S • HS3.75S • HSZ2.4S • HSZ3.75S • HSD2.55S



	HS2.4S	HS3.75S	HSZ2.4S	HSZ3.75S	HSD2.55S	
	Sand/Solids Trash Pump	Sand/Solids Trash Pump	Automatic Trash Pump	Automatic Trash Pump	Extreme Durable Sand Pump	
FLUID	Max. Capacity (GPM)	53	60	53	60	58
	Max. Head (ft)	39	62	39	62	43
	Solid Diameter (inches)	1/4	1/4	1/4	1/4	3/8
PUMP	Impeller Type	Semi-Vortex	Semi-Vortex	Semi-Vortex	Semi-Vortex	Semi-Vortex
	Impeller Material	Urethane Rubber	Urethane Rubber	Urethane Rubber	Urethane Rubber	High Chromium
	Casing Material	Grey Iron Casting	Grey Iron Casting	Grey Iron Casting	Grey Iron Casting	Ductile Iron Casting
	Wear Plate Material	Integral part of casing	Integral part of casing	Integral part of casing	Integral part of casing	Integral part of casing
Shaft Seal - Type/Material	Double inside mechanical seal with Silicon Carbide on Silicon Carbide faces on lower seals and Carbon on Ceramic Faces on upper seals.					
Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)					
Seal Lubricant - Amount (ounces)	5.4	5.4	5.4	5.4	5.4	
Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	
Discharge Connection	2" NPT Coupling	3" NPT Coupling	2" NPT Coupling	3" NPT Coupling	2" NPT Coupling	
MOTOR	Motor Output (hp)	1/2 hp	1 hp	1/2 hp	1 hp	3/4 hp
	Phase	Single	Single	Single	Single	Single
	Voltage (V)	110V	115V or 230V	110V or 220V	115V or 230V	115V
	Amperage - Rated Current	5.4	9.6 / 4.6	5.4 / 2.7	9.6 / 4.6	7.5
	Amperage - Starting Current	12.5	26 / 13.5	12.5 / 6.3	26 / 13.5	22.2
	Type	Continuous duty, Air filled, 3600RPM, 60Hz				
	Bearings	Double shielded, Permanently lubricated, High-temp C3 with B-10 life of 60,000 hours				
	Insulation Class	E	E	E	E	E
	Motor Protection (Built-In)	Miniature Protector	Miniature Protector	Miniature Protector	Miniature Protector	Miniature Protector
	Plug Configuration (Nema)	5-15P	5-15P	5-15P	5-15P	5-15P
DIMENSION	Cable - # of Conductors x AWG	3C x 16 AWG	3C x 14 AWG	3C x 16 AWG	3C x 14 AWG	3C x 16 AWG
	Std. Cable Length (ft)	20	32	20	32	32
	Max. Cable Length (ft)	70	70	70	70	70
	Recommended Generator Capacity (watts)	2400	3700	2400	3700	2900
	Optional Float Switch	TS-301	TS-302	N/A	N/A	TS-301
	Diameter (inches)	10 1/16	12 7/16	13 1/2	13 1/2	9 3/4
	Height (inches)	12 15/16	15 1/4	15 1/8	17 1/2	15 3/8
	Continuous Running Water Level (in.)	3 1/2	3 1/2	*15 1/8 *Pump Starting Water Level	*17 1/2 *Pump Starting Water Level	4 1/8
	Shipping Weight (lbs.)	30	49	30	49	36

# Electric Submersible Pumps Specifications

LSR2.4S • LSC1.4S • NK2-15 • NK2-22 • NK2-22L



	<b>LSR2.4S</b> Ground Level	<b>LSC1.4S</b> Floor Level	<b>NK2-15</b> Heavy Duty & High Head	<b>NK2-22</b> Heavy Duty & High Head	<b>NK2-22L</b> Heavy Duty & High Flow	
<b>PUMP FLUID</b>	Max. Capacity (GPM)	62.4	45	111	130	211
	Max. Head (ft)	39.5	39	69	85	59
	Solid Diameter (inches)	0.236	0.236	5/16	5/16	5/16
	Impeller Type	Semi-Vortex	Semi-Vortex	Semi-Vortex	Semi-Vortex	Semi-Open
	Impeller Material	Urethane Rubber	Urethane Rubber	Ductile Iron Casting	Ductile Iron Casting	High Chrome
	Casing Material	Ethylene Propylene Rubber	Ethylene Propylene Rubber	Ethylene Propylene Rubber	Ethylene Propylene Rubber	Cast Iron
	Wear Plate Material	Urethane Rubber	Urethane Rubber	Integral part of casting	Integral part of casting	Ductile Iron Casting
	Shaft Seal - Type/Material	Silicon Carbide on Silicon Carbide faces on upper and lower seals.				
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)				
	Seal Lubricant - Amount (ounces)	6.1	6.1	9.1	9.1	9.1
<b>MOTOR</b>	Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter	V-Ring & Oil Lifter
	Discharge Connection	2" NPT Coupling	3/4" NPT Coupling	3" NPT Coupling	3" NPT Coupling	3" NPT Coupling
	Motor Output (hp)	2/3 hp	2/3 hp	2 hp	3 hp	3 hp
	Phase	Single	Single	Single	Single	Single
	Voltage (V)	110V	110V	110V and 220V	220V	220V
	Amperage - Rated Current	6.1	6.1	23.0 / 11.5	13.0	13.0
	Amperage - Starting Current	12.5	12.5	136 / 68	70.0	70.0
	Type	Continuous duty, Air filled, 3600RPM, 60Hz				
	Bearings	Double Sealed, Permanently Lubricated				
	Insulation Class	E	E	B	B	B
	Motor Protection (Built-In)	Miniature Protector	Miniature Protector	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector
	Plug Configuration (Nema)	5-15P	5-15P	No Plug	No Plug	No Plug
	Cable - # of Conductors x AWG	3C x 16 AWG	3C x 16 AWG	3C x 12 AWG	3C x 14 AWG	3C x 14 AWG
	Std. Cable Length (ft)	32	20	32	32	32
	Max. Cable Length (ft)	62	62	46(110V), 185(220V)	94	94
	Recommended Generator Capacity (watts)	2700	2700	7200	10000	10000
	Optional Float Switch	TS-301	N/A	TS-303 (220V Operation only)		
	<b>DIMENSION</b>	Diameter (inches)	8 1/4	7 11/16	9 7/16	9 7/16
Height (inches)		11 3/8	12 7/16	24 1/2	24 1/2	26 1/2
Continuous Running Water Level (in.)		0.20	0.04	3 1/4	3 1/4	4 3/4
Shipping Weight (lbs.)		28	29	80	78	84

# Electric Submersible Pumps Specifications

LBT-800 • LBT-1500 • LH23.0W • LH33.0



		LBT-800	LBT-1500	LH23.0W	LH33.0
PUMP		Slimline Pump	Slimline Pump	Slimline Pumps	
	Max. Capacity (GPM)	82	111	145	291
	Max. Head (ft)	59	69	141	72
	Solid Diameter (inches)	1/4	1/4	1/4	1/4
	Impeller Type	Semi-Vortex	Semi-Open	Closed	Closed
	Impeller Material	Urethane Rubber	Urethane Rubber	Hi-Chrome Cast Iron	Hi-Chrome Cast Iron
	Casing Material	Natural Rubber	Natural Rubber	Ductile Cast Iron	Ductile Cast Iron
	Wear Plate Material	Natural Rubber	Natural Rubber	Integral part of casing	Integral part of casing
	Shaft Seal - Type/Material	Double inside mechanical seal with Silicon Carbide on Silicon Carbide faces on lower seals, and Carbon on Ceramic faces on upper seals.		Dual Inside Silicon Carbide Mechanical Seal. Seal Endurance up to 142psi.	
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)			
Seal Lubricant - Amount (ounces)	5.2	12.5	13.8	13.8	
Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	Oil Lifter	Oil Lifter	
Discharge Connection	2" NPT Coupling	2" or 3" NPT Coupling (2" is optional)	2" NPT Coupling	3" NPT Coupling	
MOTOR	Motor Output (hp)	1 hp	2 hp	4 hp	4 hp
	Phase	Three	Three	Three	Three
	Voltage (V)	230/460/575	230/460/575	208-230/460/575	208-230/460/575
	Amperage - Rated Current	3.2 / 1.6 / 1.2	8.0 / 4.0 / 2.9	12.3-12.0 / 6.0 / 4.7	12.3-12.0 / 6.0 / 4.7
	Amperage - Starting Current	19.4 / 9.7 / 7.0	42 / 21 / 14	86.1-84 / 48.6 / 35.3	86.1-84 / 48.6 / 35.3
	Type	Continuous duty, Air filled, 3600RPM, 60Hz			
	Bearings	Double Sealed, Permanently Lubricated			
	Insulation Class	E	E	F	F
	Motor Protection (Built-In)	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector
	Plug Configuration (Nema)	No Plug	No Plug	No Plug	No Plug
	Cable - # of Conductors x AWG	4C x 16 AWG	4C x 16 AWG	4C x 14 AWG	4C x 14 AWG
	Std. Cable Length (ft)	50	50	64	64
	Max. Cable Length (ft)	192 (230V) / 766 (460V) / 1276 (575V)	77 (230V) / 306 (460V) / 528 (575V)	220 (208-230V) / 813 (460V) / 302 (575V)	220 (208-230V) / 813 (460V) / 302 (575V)
Recommended Generator Capacity (watts)	3600	7400	14200	14200	
Optional Float Switch	Control Panel				
DIMENSION	Diameter (inches)	7 9/16	7 3/8	7 5/16	7 5/16
	Height (inches)	13 7/16	23 5/16	24 13/16	25 3/8
	Continuous Running Water Level (in.)	2	3 1/8	7 7/8	5 7/8
	Shipping Weight (lbs.)	35	85	Consult Factory	Consult Factory

# Electric Submersible Pumps Specifications

## KTZ21.5 - KTZ611



	KTZ21.5	KTZ22.2	KTZ23.7	KTZ31.5	KTZ32.2	KTZ33.7	KTZ35.5	KTZ43.7	KTZ45.5	KTZ47.5	KTZ411	KTZ67.5	KTZ611	
	Wear Resistant Pumps													
<b>FLUID PUMP</b>	Max. Capacity (GPM)	106	132	143	180	203	219	260	386	428	349	377	549	645
	Max. Head (ft)	75	100	115	47	67	102	125	61	79	137	167	102	107
	Solid Diameter (inches)	5/16	5/16	5/16	5/16	5/16	5/16	5/16	5/16	5/16	5/16	5/16	13/16	13/16
	Impeller Type	Semi Open												
	Impeller Material	High Chrome												
	Casing Material	Cast Iron												
	Wear Plate Material	Ductile Cast Iron												
	Shaft Seal - Type/Material	Silicon Carbide, High Pressure Mechanical seal, Seal Pressure Endurance of 142 psi for 5hp and bigger, 71psi for 2 and 3hp models. (Additional protection provided with Seal Pressure Relief Ports on 10 and 15hp models)												
	Seal Lubricant - Type	SAE 10W / 20W or Turbine Oil (ISO VG32)												
	Seal Lubricant Amount (ounces)	25.0	25.0	32.5	25.0	25.0	32.5	37.2	32.5	37.2	25.7	25.7	25.7	25.7
Seal Protection	Lip Seal and Oil Lifter													
Discharge Connection	2" NPT Coupling			3" NPT Coupling				4" NPT Coupling				4" NPT Coupling (6" is optional)		
Motor Output (hp)	2	3	5	2	3	5	7.5	5	7.5	10	15	10	15	
Phase	Three													
Voltage (V)	208-230 / 460 / 575													
Amperage -Rated Current	6.2-6.0 / 3.1 / 2.3	9.4-9.0 / 4.5 / 3.5	15.0-13.6 / 6.8 / 5.3	6.2-6.0 / 3.1 / 2.3	9.4-9.0 / 4.5 / 3.5	15.0-13.6 / 6.8 / 5.3	21.0-20.0 / 10.0 / 7.9	15.0-13.6 / 6.8 / 5.3	21.0-20.0 / 10.0 / 7.9	28.8-26.6 / 13.3 / 10.4	40.0-37.6 / 18.6 / 14.9	28.8-26.6 / 13.3 / 10.4	40.0-37.6 / 18.6 / 14.9	
Amperage - Starting Current	44/22/16	46/38/28	120/60/43	44/22/16	46/38/28	120/60/43	170/85/62	120/60/43	170/85/62	236/118/85	310/155/120	236/118/85	310/155/120	
Type	Continuous duty, Air filled, 3600RPM, 60Hz													
Bearings	Double Sealed, Permanently Lubricated													
Insulation Class	F													
Plug Configuration (Nema)	No Plug													
-Cable # of Conductors x AWG	#16/4	#16/4	#14/4	#16/4	#16/4	#14/4	#12/4	#14/4	#12/4	#10/4	#8/4	#10/4	#8/4	
Std. Cable Length (ft)	50													
Max. Cable Length (ft)	130(230V) 610(460V) 670(575V)	90(230V) 400(460V) 440(575V)	90(230V) 450(460V) 460(575V)	130(230V) 610(460V) 670(575V)	90(230V) 400(460V) 440(575V)	90(230V) 450(460V) 460(575V)	10(230V) 540(460V) 590(575V)	90(230V) 450(460V) 460(575V)	110(230V) 540(460V) 590(575V)	130(230V) 650(460V) 690(575V)	130(230V) 650(460V) 690(575V)	130(230V) 650(460V) 690(575V)	130(230V) 650(460V) 690(575V)	
Recommended Generator Capacity (watts)	8800	12400	19100	8800	12400	19100	27600	19100	27600	38300	53700	38300	53700	
Optional Float Switch	N/A													
<b>DIMENSION</b>	Diameter (inches)	9 1/4	9 1/4	11 1/8	9 1/4	9 1/4	11 1/8	12 1/16	11 1/8	12 1/16	13	14 11/16	13	14 11/16
	Height (inches)	21 9/16	22 3/8	25 1/16	21 9/16	22 3/8	25 1/16	27 1/16	25 1/16	27 1/16	28 1/8	31 3/4	28 1/8 or 30 11/16	31 3/4 or 30 3/16
	Continuous Running Water Level (in.)	4 3/4	4 3/4	5 7/8	4 3/4	4 3/4	5 7/8	5 7/8	5 7/8	5 7/8	7 1/2	7 1/2	7 1/2	7 1/2
	Pump Weight (lbs.)	66	75	139	66	75	139	181	139	181	231	293	236	300

# TSURUMI PUMP Parts and Accessories

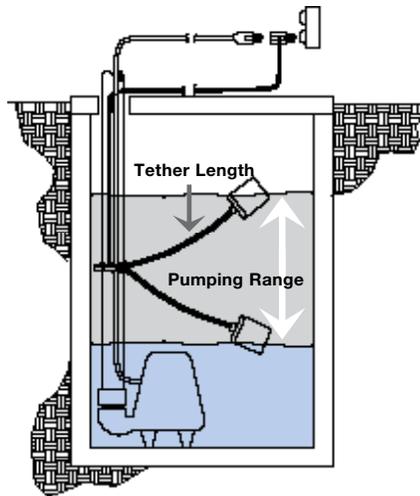


## Automatic Float Switch

TSURUMI's TS-series piggy-back float switches allow fast and easy installation of Tsurumi submersible pumps for automated operation. Simply tighten the float mounting strap to the discharge pipe, or other suitable support, and set the float tether length for the desired pumping range. (See chart below). Next, plug the pump into the float's piggy-back receptacle and plug into electrical outlet. All switches are UL Recognized and CSA Certified.

Tether Length	Pumping Range
3.5 inches	7 inches
6 inches	10 inches
10 inches	16 inches
14 inches	22 inches
18 inches	28 inches
22 inches	33 inches
24 inches	36 inches

Note: Due to cable weight, pumping range above horizontal is NOT equal to pumping range below horizontal. As tether length increases, so does the variance of the pumping range. Pumping ranges are based on testing in non-turbulent conditions. Actual conditions may vary. Use these values as a guide.



Automatic Float Switch



## Hoses and Suction Strainers

A range of hose and connectors are available. Both discharge (50ft) and suction hoses (20ft) available in 2", 3", and 4".

Pump Float Switches	Maximum Pump Running Current	Maximum Pump Starting Current	Required Nema Plug Configuration	For Pump Model	Cord Length (ft)
TS-301	13 amps /120 VAC, 60Hz	85 amps / 120VAC, 60Hz	5-15P	HS2.4S (110V)	30
				LB-480 (110V)	30
TS-302	15 amps / 120 VAC, 60Hz	85 amps / 120VAC, 60Hz	5-15P	LB-800 (115V)	30
TS-303	15 amps / 250 VAC, 60Hz	85 amps / 250VAC, 60Hz	6-15P *	LB-800 (230V)	30
				NK2-15 (220V)	30
				NK2-22 (220V)	30



### Sand Kit Model: K15-SK

The Sand Kit can be added to the NK Series to suspend sand and prevent sand lock.



### Residue Kit Model: HS-RK

Available for the HS2.4S, the Residue Kit allows pumping of residual water down to 0.4 inches.

## Wheel Kit & Lifting Bail



Wheel Kit PGWK-200  
for TPG3 Series Generator &  
Gas Engine Pumps



Wheel Kit PGWK-11K  
for TPG-11000HDXE



Lifting Bail  
PGLB-1

### For All Generators, Gas Engine Pumps: Wheel Kit PGWK-200 / PGWK-11K and Lifting Bail PGLB-1

Heavy-duty and easy to install our wheel kits and lifting bails fit all of Tsurumi Generators.

## Control Panels



### For NK, KTZ, LH, and LHW Series MANUAL CONTROL PANEL INCLUDES:

- Manual Simplex Operation.
- Nema 4X, Lockable Fiberglass Enclosure.
- IEC Contactor.
- Hand/Off Selector Switch.
- UL Listed.
- Cable Grips In Control Panel.

### AUTOMATIC CONTROL PANEL INCLUDES:

- Automatic or Manual Simplex Operation.
- Nema 4X, Lockable Fiberglass Enclosure.
- IEC Rated Magnetic Contactor.
- Hand/Off Auto Selector Switch.
- UL Listed.
- Includes (2) 20 Ft. Mechanical Float Switches.
- Cable Grips In Control Panel.

Inverter Panels are available for LHW and KTZ series Single Phase operation.

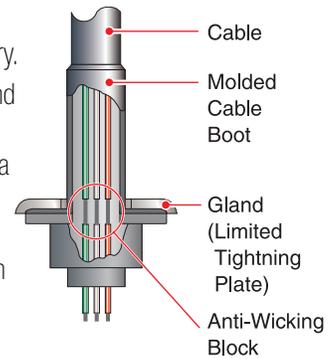


# TSURUMI PUMP

## SUPERIOR DESIGN & TECHNOLOGY

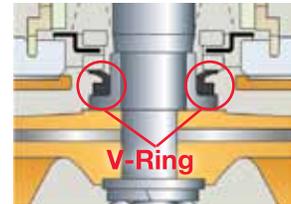
**Anti-Wicking Cable Entrance:** Maximum protection against water incursion through the cable entry.

- Molded Cable Boot or Cable Protection Tube - extends cable bending radius, prevents abrading, and reduces fatigue.
- Cable Gland - provides 360 degree compression of cable boot, protection tube or cable bush for a water tight fit.
- Anti-Wicking Block - window cuts on conductor insulation expose strands to molded rubber or epoxy to prevent water wicking through the strands and entering the motor providing protection even if the cable insulation is cut.



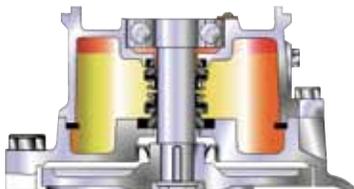
**Circle Thermal Protector (CTP) - for pumps with 1-10HP:** 3-Pole protector connects to each winding of the motor and reacts to excessive heat and amperage. Automatic reset at safe temperature to restart the motor. No motor protection circuit required in starter or control panel.

**V-Ring:** V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



**High-Performance Motor:**

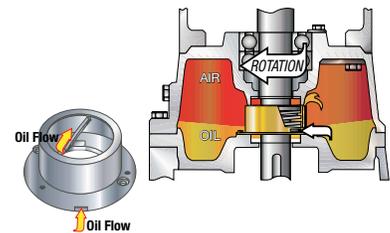
Dry type, squirrel-cage, induction motor, housed in a watertight casing, conforms to either insulation class B or E, or F. In both of these classes, all standard pumps can be used in ambient temperature up to 104°F (40°C).



**Dual Inside, Silicon Carbide Mechanical Seals:**

Isolation of mechanical seals in an oil chamber provides a clean, non-corrosive and abrasion free lubricating environment to prevent spring failure due to corrosion or abrasion and bottom seal failure due to loss of cooling during dry-run conditions.

**Oil Lifter (Patented):** Tsurumi's exclusive Oil Lifter encloses the mechanical seal and uses the centrifugal force generated by the rotating shaft and seal to pump oil to the upper seal faces. Upper and lower seal faces are positively lubricated even when extremely low oil levels exist, as experienced after long periods of extended operation.




# TSURUMI PUMP

For Sales, Service, and Specifications, call:  
**1-888-TSURUMI (878-7864)**



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 1-630-793-0127  
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