



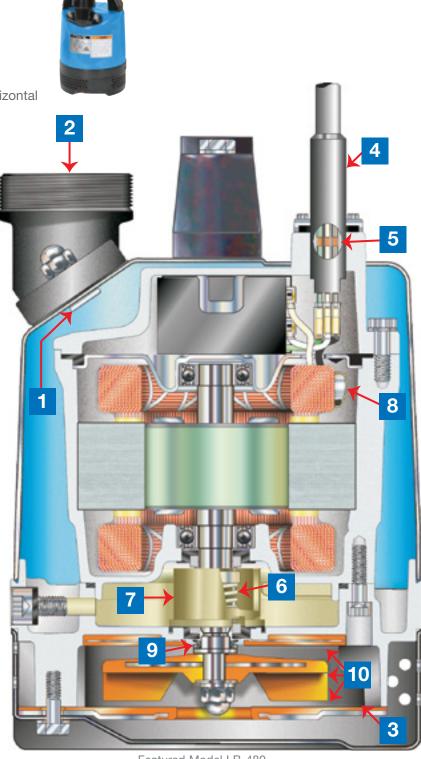
ELECTRIC SUBMERSIBLE PUMPS - Long Life by Design

LB 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.
- 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.

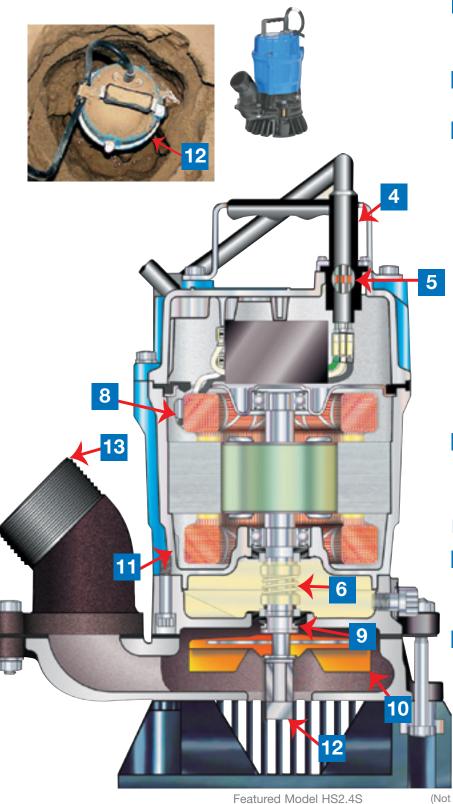






Featured Model LB-480





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

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)

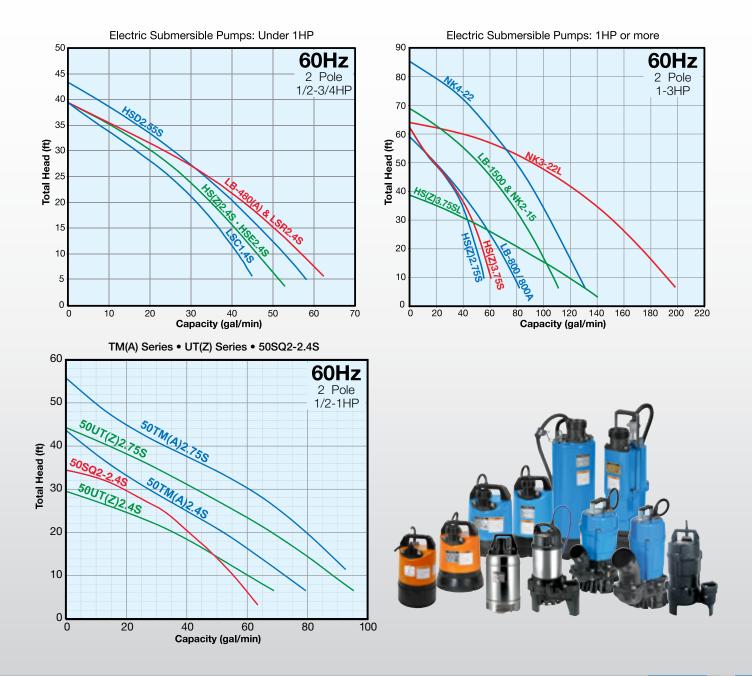


GROUP PERFORMANCE RANGE

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





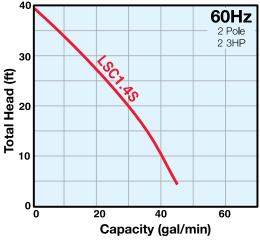
LSC • LSR - GROUND DRAINAGE PUMP

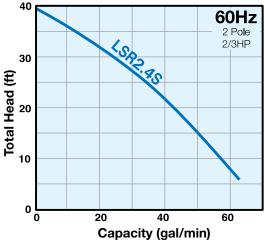
LSC DRAINAGE PUMP: Original residue dewatering pump; able to pump down to the floor, even the smallest puddle can be pumped dry. LSC drainage pump is the best for complete drainage of flat surfaces where a sump is not available.

LSR DRAINAGE PUMP: Pump holds suction for drainage to 0.4 inch water level.









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
- · V-Ring Seal protects mechanical seal from abrasive particles

Optional Accessories - See page 24-27

- SLS-LSC20 Automatic operation surface level switch
- 2" Discharge
- · Discharge hoses
- · Quick connect fittings

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
- V-Ring Seal protects mechanical seal from abrasive particles

Optional Accessories - See page 24-27

- SLS-LSR32 Automatic operation surface level switch
- · Discharge hoses
- · Quick connect fittings

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

	Model	Motor Output	Phase	Discharge Bore	Cable Length	Dimens	sion (inch)	Continuous Running	Shipping Weight
	Model	(HP)	1 Hase	(inch)	(ft)	Diameter	Heights	Water Level (inch)	(lbs.)
	LSC1.4S	2/3	Single	3/4	20	7 11/16	12 7/16	0.04	31

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

	Model	Motor Output	Phase	Discharge Bore	Cable Length Dimension (in		sion (inch)	Continuous Running Shipping Weig		
1	Model	(HP)	Filase	(inch)	(ft)	Diameter	Heights	Water Level (inch)	(lbs.)	
	LSR2.4S	2/3	Single	2	32	8 1/4	11 3/8	0.2	30	



SPECIFICATIONS - SINGLE PHASE PUMPS: LSR • LSC • NK • SQ • UT(Z) • TM(A)

		LSR2.4S	LSC1.4S	NK2-15	NK4-22	NK3-22L	50SQ2-2.4S	50UT2.4S	50UTZ2.4S	50UT2.75S	50UTZ2.75S	50TM2.4S	50TMA2.4S	50TM2.75S	50TMA2.75S
		2" Ground Level Pump	1" Floor Level Pump	3" Heavy Duty High Head Pump	3" Heavy Duty High Head Pump	3" Heavy Duty High Flow Pump	2"Portable Corrosion Resistant Pump	2" Cast Iron Submersible Pump	2" Cast Iron Auto Submersible Pump	2" Cast Iron Submersible Pump	2" Cast Iron Auto Submersible Pump	2" Manual Titanium Pump	2" Auto Titanium Pump	2" Manual Titanium Pump	2" Auto Titanium Pump
ELUID	Max. Capacity (GPM)	62.4	45	111	131	210	63	6	9	9	95	7	9	9	2
a	Max. Head (ft.)	39.5	39	69	85	59	34	29	9.5	4	14	4	14	5	6
	Solid Diameter (in.)	0.2	236		0.334		0.236		1	.4			0.3	394	
dMNd	Impeller	Semi		-Vortex		Semi- Open	Semi- Vortex	Semi-Vortex		Semi-Vortex					
	Impeller Material	Urethane Rubber		Ductile Iron Casing		High Chrome	PPO Plastic	Polyphenylene				PPO Plastic			
	Casing Material	Ethylene Pro		pylene Rubber		Cast Iron	304 SS and NBR Rubber	Cast Iron				ABS Plastic			
	Wear Plate Material	Urethane	Rubber	Integral Cas		Ductile Iron Casing	304 Stainless Steel		-				-		
	Shaft Seal - Type / Material		D	ouble Inside					on lower se	eals and Ca	rbon Ceram				20)
	Seal Lubricant - Type			ı		7/20W or Tu	ırbine Oil (IS			ı	_	Wh		Oil (ISO VG	32)
	Seal Lubricant Amount (oz.)	5.1	5.2		9.1		5.4	5	.4	7	.8		8	.1	
	Seal Protection			V-R			ing and Oil	Lifter					Oil	Lifter	
	Discharge Connection	2" MNPT 3/4" MNPS Coupling		3" MNPT	Coupling (2	?" optional)	2" FNPT Flange		2" MNPT Coupling			2" FNP?		PT Flange	
Ž	Motor Output (HP)	2.	/3	2		3	1/2	1	/2		1	1	/2		1
моток	Phase							Single Phase							
ЭR	Voltage (V)	115		110 or 220	230	220	115 or 230	115 115 or 220		r 220	115 c		or 230		
	Amperage - Rated Current	5.9 (115V)		23.0 (110V) 11.5 (220V)	11.7	13	5.1 (115V) 2.9 (230V)	5.7 (115V)	9.9 (115V) 5.2 (220V)		5.8 (115V) 2.9(230V)		8.7 (115V) 4.6 (230V)	
	Amperage - Starting Current	12.4 (115V)		141 (110V) 70 (220V)	70	70	18 (115V) 9 (230V)				18 (115V) 7.9 (230V)		35 (115V) 16.7 (230V)		
	Туре	Continuous Duty, Air Filled, 3600 RPM, 60Hz													
	Bearings	Double shielded, permanently lubricated, high-temp C3 with B-10 life of 6								0,000 hours					
	Insulation Class	E	<u> </u>	B F		В	Е		E					E	
								Circle Thermal		The same of	Circle T		l		
	Motor Protection (Built-In)	Miniature Protector		Protector Circle Thermal Pr		otector	5-15P Protector Protector		ector	Miniature Protector		Prote	Circle Thermal Protector		
	Plug Configuration (Nema)	5-15P (115V)		5V) No Plug		(115) No Plu (230)		5-15P (115V) 5-15I No Plu		P (115V) ug (220V)			P (115V) ug (230V)		
	Cable - # of Conductors x AWG		6AWG	3C x 12AWG		14AWG		3C x 16AW				3C x 16AWG		3C x 14AWG	
	Standard Cable Length (ft.)	32	20		32	1		20	20 32		52	;		32 T	
	Max. Cable Length (ft.)	110 (115V)		75 (110V) 300 (220V)	180	150	100 (115V) 380 (230V)	V) 110 (115V)		100 (115V) 380 (220V)		45 (115V) 180 (230V)		48 (115V) 180 (230V)	
	Recommended Generator Capacity (watts)	2700		7200 100		000	3000 2700		700	4600		3000		4500	
	Optional Float Switch	SLS- LSR32	SLS- LSC20	TS-304 (115V) TS-303 (220V)	TS	-303	TS-301	TS-301	N/A	TS-302	N/A	TS-301	N/A	TS-302	N/A
DI	Diameter (in.)	8 1/4	7 2/3	9 7/16	9 7/16	9 1/4	7 1/16	9 1/2	9 1/2	9 1/2	9 1/2		9.5	5/16	
ΜE	Height (in.)	11 3/8	12 7/16	24 1/2	24 3/16	26 1/2	14 7/16	13 3/4	15 3/4	16	18	14 3/16	14 3/4	14 15/16	15 1/2
DIMENSION	Continuous Running Water Level (C.W.L) (in.)	0.2	0.04	3 1/4	3 1/4	4 3/4	2 3/8	11 3/4	15 3/4 (Pump Starting Water Level)	11 3/4	18 (Pump Starting Water Level)	12 3/4	23 7/8 (Pump Starting Water Level)	13 5/8	24 5/8 (Pump Startin Water Level)
	Shipping Weight (lbs.)	30	31	80	78	84	27	34	35	43	43	23	24	25	26
	1														



PUMP ACCESSORIES for Electric Submersible Pumps, Engine Pumps & Portable Generators

Automatic Float Switch Model: TS-301 • TS-302 • TS-303 • TS-304 / SLS-LSC20 • SLS-LSR32

See Page 26-27 for more details



TS-301 • TS-302 • TS-303 • TS-304

Piggy-back float switches allow fast & easy installation of Tsurumi submersible pumps for automated operation.

TS-301 • TS-302 NEMA 5-15P plug; 30' TS-303 NEMA 6-15P plug; 30'



SLS-LSC20 • SLS-LSR32

The surface level switch is used to automate a utility/floor sucking pump. Set the Surface Level Switch on the floor and plug the power cord from the pump into the piggyback plug on the switch. Plug the piggy-back plug into a standard 120 VAC wall outlet (the unit will also work on GFI outlets).



Hoses

See Page 26-27 for more details

Hose Kit



Hose Kit with NPT



Hose Kit with Quick Connect

Discharge Hose



NPT



Quick Connect

Other Hoses



Mill Hose

Hose Accessories



Suction Hose

Suction Hose



NPT



Quick Connect



Hose Nozzle



Quick Connect 'A'



Quick Connect 'F'



PUMP ACCESSORIES GUIDE for Electric Submersible Pumps

Electric Submersible Pumps

	Float Switch	Sand Kit	Residue Kit	2" Straight Discharge	3" Straight Discharge
MODEL	O. O.	K15-SK	/ ©		
LB-480	TS-301				
LB-480A					
LB-800	TS-302				
LB-800A					
LB-1500	TS-303 (220V Only)			032-351-11	
HS2.4S	TS-301		HS-RK	032-214-11	
HSZ2.4S			HS-RK	032-214-11	
HSE2.4S			HS-RK	032-214-11	
HS2.75S	TS-302				032-160-11
HSZ2.75S					032-160-11
HS3.75S	TS-302			032-158-16	032-160-11
HSZ3.75S				032-158-16	032-160-11
HS3.75SL	TS-302			032-158-16	032-160-11
HSZ3.75SL				032-158-16	032-160-11
HSD2.55S	TS-301			032-214-11	
NK2-15	TS-304 (115V) / TS-303 (220V)	K15-SK			
NK4-22	TS-303	K22-SK			
NK3-22L	TS-303				
LSR2.4S	SLS-LSR32				
LSC1.4S	SLS-LSC20			032-426-18	

Electric Submersible Pumps (continued)

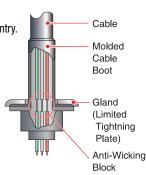
	2" Discharge Hose NPT	2" Discharge Hose Quick Connect	2" Quick Disconnect 'A'	3" Discharge Hose NPT	3" Discharge Hose Quick Connect	3" Quick Disconnect 'A'
	XXHS2D	XHD2QC50	G200-A-AL	XXHS3D	XHD3QD50	G300-A-AL
MODEL	1			1		3
LB-480	X	Х	Х			
LB-480A	X	X	X			
LB-800	X	X	X			
LB-800A	X	X	X			
LB-1500*	X	X	X	X	X	Х
HS2.4S	Х	X	X			
HSZ2.4S	Х	X	X			
HSE2.4S	Х	X	X			
HS2.75S	X	X	X			
HSZ2.75S	X	X	X			
HS3.75S				Х	Х	Х
HSZ3.75S				X	X	Х
HS3.75SL				X	X	X
HSZ3.75SL		.,	.,	X	Х	Х
HSD2.55S	X	X	X	.,		
NK2-15				X	X	X
NK4-22				X	X	X
NK3-22L	V			Х	X	Х
LSR2.4S	X	X	X			
LSC1.4S						

^{*} Standard discharge size is 2". 3" is optional.



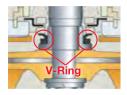
Anti-Wicking Cable Entrance: Maximum protection against water incursion through the cable entry.

- 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 prove 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.



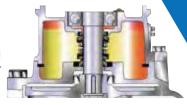
V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



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: Tsurumi's 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.





BUILT FOR WORK® TSURUMI (AMERICA), INC.

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