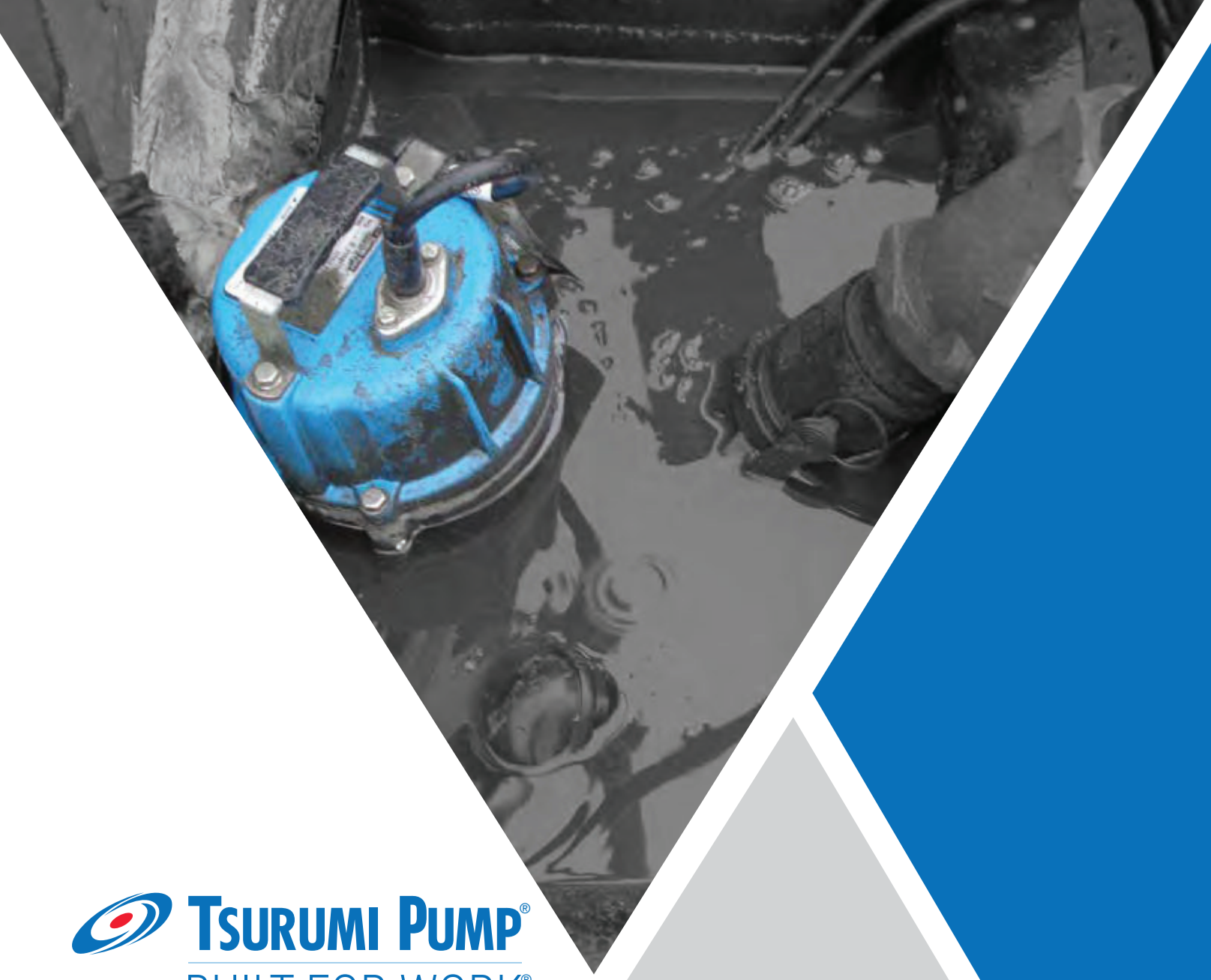


TSURUMI PUMP®

BUILT FOR WORK®

CONTRACTOR PUMPS | ENGINE PUMPS | GENERATORS

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.

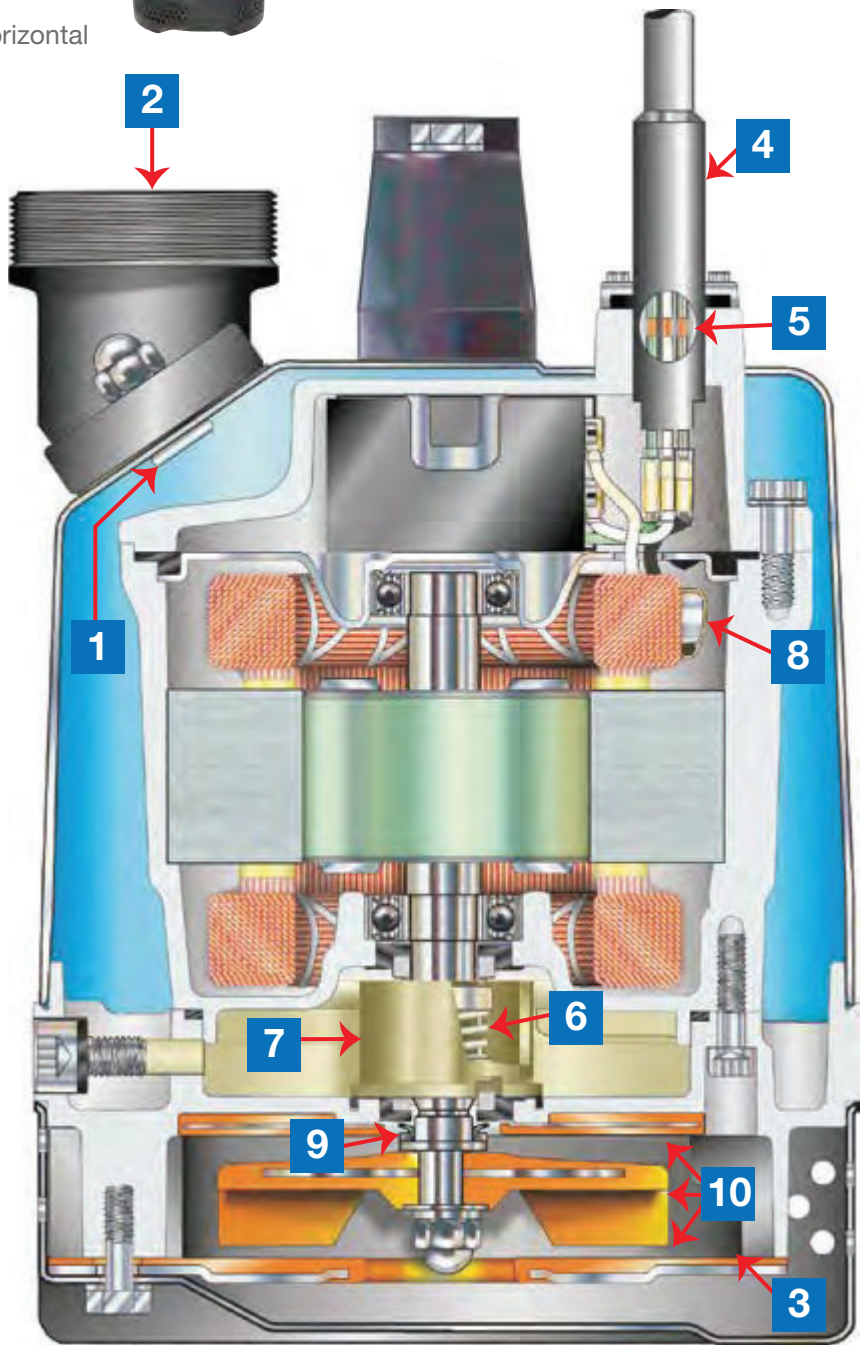
3 RUBBER CASING WITH LARGE ROUNDED CUT-WATERS: Resists wear and degradation of performance due to abrasive particles.

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

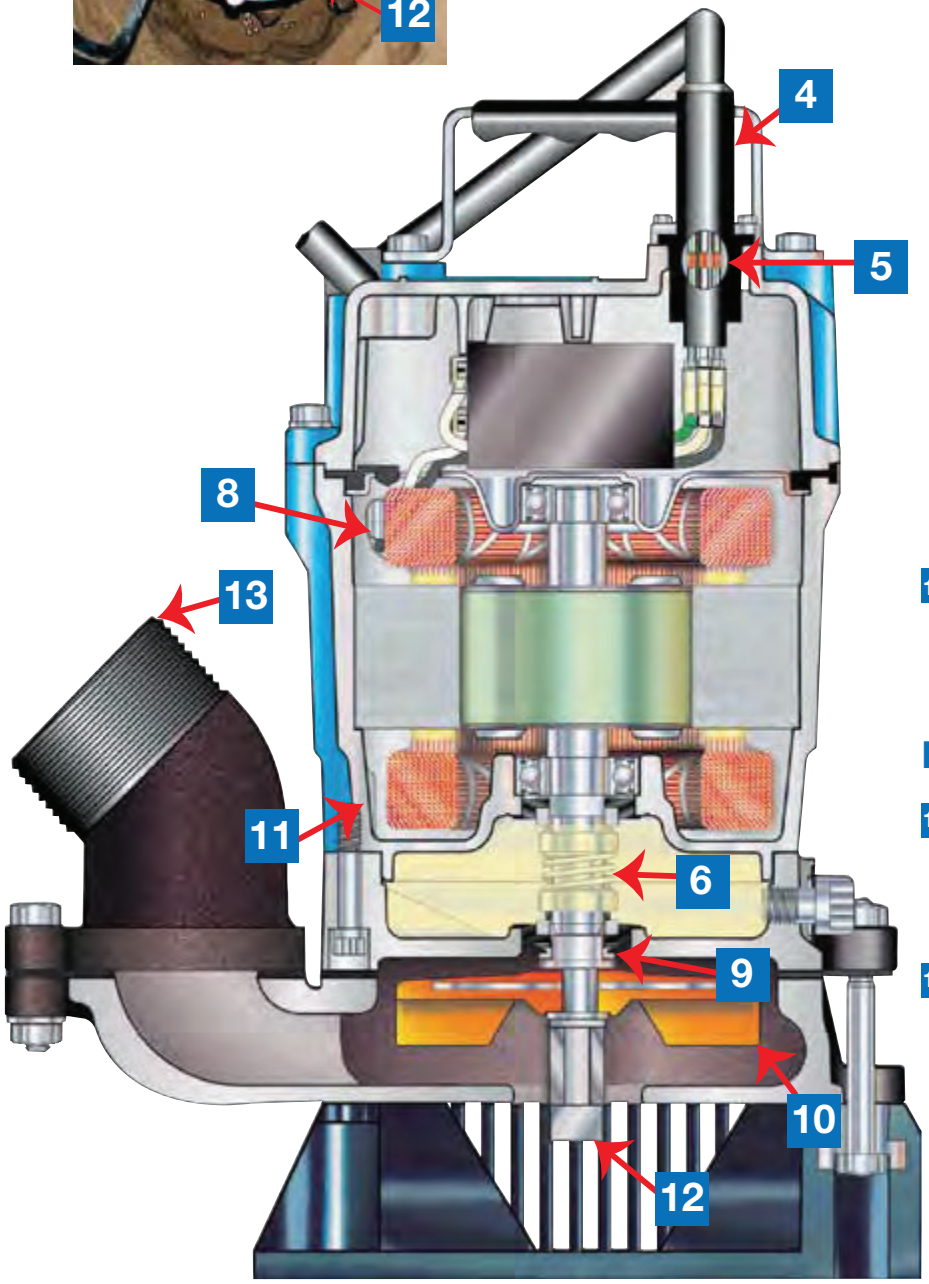
5 ANTI-WICKING BLOCK: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.

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



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

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.

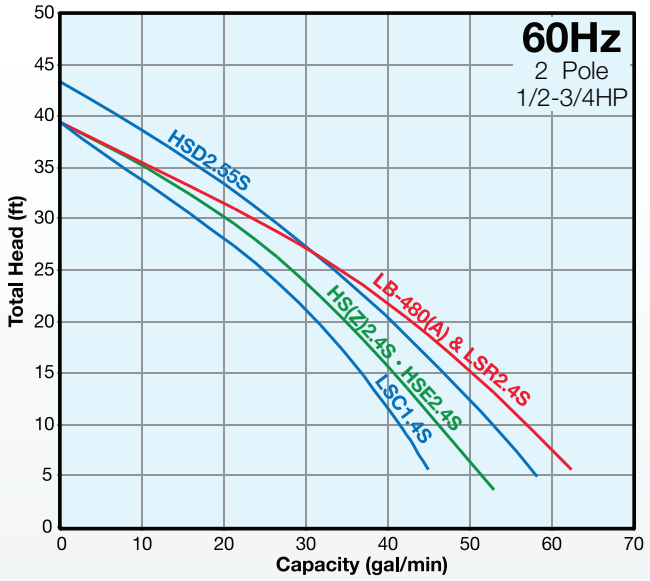
(Not all features available on every Tsurumi submersible pump)

GROUP PERFORMANCE RANGE

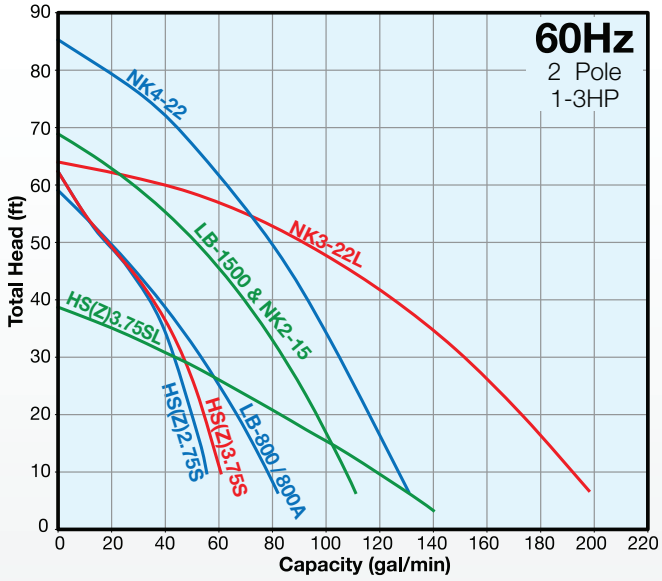
Reliable and cost-effective pumps enable Tsurumi to remain an industry leader in the rental and construction markets. Our customers know that while many pumps may look the same, only Tsurumi incorporates the most durable components into the final manufactured product.

GROUP PERFORMANCE RANGE
ELECTRIC SUBMERSIBLE PUMPS

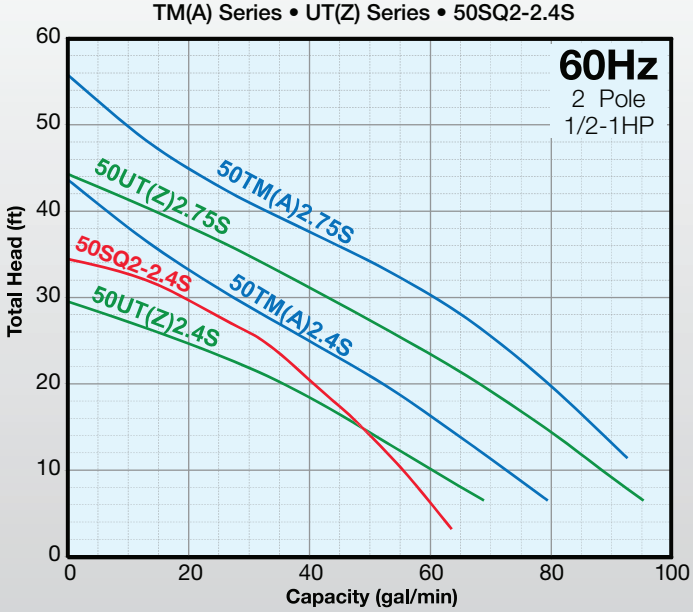
Electric Submersible Pumps: Under 1HP



Electric Submersible Pumps: 1HP or more

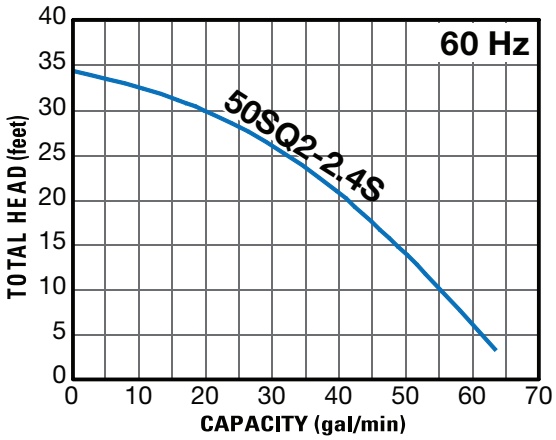


TM(A) Series • UT(Z) Series • 50SQ2-2.4S



SQ - 50SQ2-2.4S SINGLE PHASE PORTABLE CORROSION-RESISTANT PUMP

The SQ pump features a top discharge, flow-thru design with forced motor cooling that enables extended running at low water level. In addition, the SQ pump fits into an 8-inch pipe.



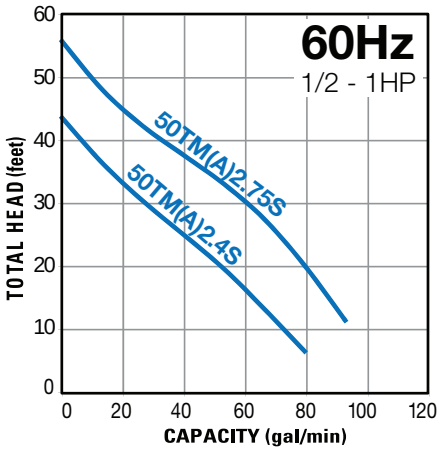
50SQ2-2.4S Features

- Contructed of a combination of 304 and 316 stainless steel materials, Nitrile Butadiene Rubber and special resin to stand up to rust and corrosion, and sport a new structural design that makes them even lighter and easier to carry
- Non-toxic white mineral oil used to lubricate mechanical seals
- Motor protector protects against overheating and run-dry
- Designed to fit into an 8-inch pipe

Model	Motor Output (HP)	Phase	Discharge Bore (inch)	Cable Length (ft)	Dimension (inch)		Continuous Running Water Level (inch)	Shipping Weight (lbs.)
					Diameter	Heights		
50SQ2-2.4S	1/2	Single	2	32	7 1/16	14 7/16	2 3/8	27

TM • TMA - SINGLE PHASE TITANIUM SEAWATER PUMP

Titanium construction, semi-vortex solids handling impeller. Ideal for saltwater and chemical applications.



TM / TMA Series Features

- Titanium and FRP components increases corrosion resistance in a wide variety of applications
- Ideal use for salt water, site drainage and bilge pumps
- Available in manual operation (TM) and automatic operation (TMA)

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	Heights		
50TM2.4S	1/2	Single	2	32	9 15/16	14 3/16	12 3/4	20
50TMA2.4S	1/2	Single	2	32	13	14 3/4	23 7/8*	21
50TM2.75S	1	Single	2	32	9 15/16	14 15/16	13 5/8	25
50TMA2.75S	1	Single	2	32	13	15 1/2	24 5/8*	26

* Pump Starting Water Level

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

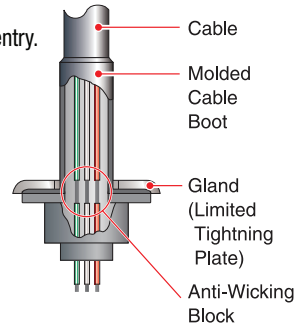
		LSR2.4S	LSC1.4S	NK2-15	NK4-22	NK3-22L	50SQ2-2.4S	50UT2.4S	50UTZ2.4S	50UT2.75S	50UTZ2.75S	50TM2.4S	50TMA2.4S	50TM2.75S	50TMA2.75S
		2" Ground Level Pump	1" Floor Level Pump	3" Heavy Duty High Head Pump	3" Heavy Duty High Head Pump	3" Heavy Duty High Flow Pump	2" Portable Stainless Steel Pump	2" Cast Iron 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
FLUID	Max. Capacity (GPM)	63	45	111	131	211	63	69		95		79		92	
	Max. Head (ft.)	40	39	69	85	59	34	29.5		44		44		56	
	Solid Diameter (in.)	0.236		0.334			0.236	1.4				0.394			
PUMP	Impeller	Semi-Vortex				Semi-Open	Semi-Vortex	Semi-Vortex				Semi-Vortex			
	Impeller Material	Urethane Rubber		Ductile Iron Casing		High Chrome	304 Stainless Steel	PPO Plastic				PPO Plastic			
	Casing Material	Ethylene Propylene Rubber				Cast Iron	304 Stainless Steel	Cast Iron				ABS Plastic			
	Wear Plate Material	Urethane Rubber		Integral Part of Casing		Ductile Iron Casing	304 Stainless Steel	---				---			
	Shaft Seal - Type / Material	Double Inside Mechanical Seal with Silicon Carbide faces on lower seals and Carbon Ceramic Faces on upper seals													
	Seal Lubricant - Type	SAE 10W/20W or Turbine Oil (ISO VG32)										White Mineral Oil (ISO VG32)			
	Seal Lubricant Amount (oz.)	5.1	5.2	9.1			5.4	5.4		7.8		8.1			
	Seal Protection	V-Ring and Oil Lifter										Oil Lifter			
	Discharge Connection	2" MNPT Coupling	3/4" MNPT Coupling	3" MNPT Coupling (2" optional)			2" FNPT Flange	2" MNPT Coupling				2" FNPT Flange			
MOTOR	Motor Output (HP)	2/3		2	3		1/2	1/2		1		1/2		1	
	Phase	Single Phase													
	Voltage (V)	115		110 or 220	230	220	115 or 230	115		115 or 230		115 or 230			
	Amperage - Rated Current	5.9 (115V)		23.0 (110V) 11.5 (220V)	11.7	13	6.5 (115V) 3.4 (230V)	5.7 (115V)		9.9 (115V) 5.2 (230V)		5.8 (115V) 2.9(230V)		9.2 (115V) 4.6 (230V)	
	Amperage - Starting Current	12.4 (115V)		141 (110V) 70 (220V)	70	70	18 (115V) 9 (230V)	11.1 (115V)		30.7 (115V) 17.6 (230V)		18 (115V) 7.9 (230V)		35 (115V) 16.7 (230V)	
	Type	Continuous Duty, Air Filled, 3600 RPM, 60Hz													
	Bearings	Double shielded, permanently lubricated, high-temp C3 with B-10 life of 60,000 hours													
	Insulation Class	E		B	F	B	E	E				E			
	Motor Protection (Built-In)	Miniature Protector		Circle Thermal Protector			Miniature Protector			Circle Thermal Protector		Miniature Protector		Circle Thermal Protector	
	Plug Configuration (NEMA)	5-15P (115V)		No Plug			5-15P (115V) No Plug (230V)	5-15P (115V)		5-15P (115V) No Plug (220V)		5-15P (115V) No Plug (230V)			
	Cable - # of Conductors x AWG	3C x 16AWG		3C x 12AWG	3C x 14AWG		3C x 16AWG			3C x 14AWG		3C x 16AWG		3C x 14AWG	
	Standard Cable Length (ft.)	32	20	32			32	20		32		32			
	Max. Cable Length (ft.)	110 (115V)		75 (110V) 300 (220V)	180	150	100 (115V) 380 (230V)	110 (115V)		100 (115V) 380 (230V)		45 (115V) 180 (230V)		48 (115V) 180 (230V)	
	Recommended Generator Capacity (watts)	1230		8520	9060		2070	1280		3880		2080		4030	
	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
DIMENSION	Diameter (in.)	8 1/4	7 11/16	9 7/16	9 7/16	9 1/4	7 1/16	9 1/2	11 5/8	9 1/2	11 5/8	9 5/16	13	9 5/16	13
	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	23 7/8	14 15/16	24 5/8
	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)	13 3/4	18 (Pump Starting Water Level)	12 3/4	23 7/8 (Pump Starting Water Level)	13 5/8	24 5/8 (Pump Starting Water Level)
	Shipping Weight (lbs.)	27	29	80	81	90	27	35	35	46	46	20	21	25	26

TSURUMI PUMP®

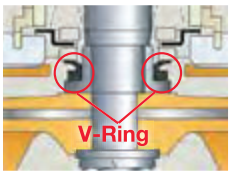
SUPERIOR DESIGN & TECHNOLOGY

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 prove water wicking through the strands and entering the motor providing protection even if the cable insulation is cut.



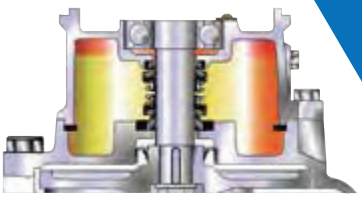
Circle Thermal Protector (CTP): For pumps with 1-10HP : 3-Pole protector connects to each winding of the motor and reacts to excessive heat and amperage. Automatic reset at safe temperature to restart the motor. No motor protection circuit required in starter or control panel.



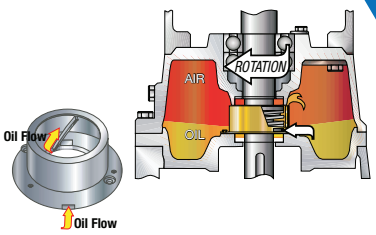
V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.

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.



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TSURUMI (AMERICA), INC.
Headquarters: 1625 Fullerton Ct, Glendale Heights, IL 60139
Utah Office: 3822 West 1987 South, Salt Lake City, UT 84104
Tel: 1-888-878-7864 (Toll-Free) • 1-630-793-0127
Fax: 1-630-793-0146 • www.tsurumipump.com

Your Dealer

TSURUMI Canada
149 J.A. Bombardier, Suite 10
Boucherville QC J4B 8P1

+14504496484
info@tsurumicanada.com
tsurumicanada.com

Find us @tsurumiamerica

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