



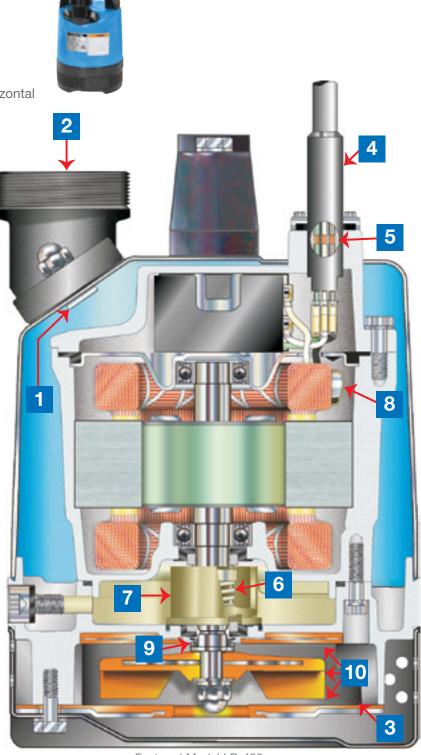
ELECTRIC SUBMERSIBLE PUMPS - Long Life by Design

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.
- RUBBER CASING WITH LARGE ROUNDED CUT-WATERS: Resists wear and degradation of performance due to abrasive particles.
- CABLE BOOT: Prevents kinking at cable entrance by extending bending radius.
- 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.

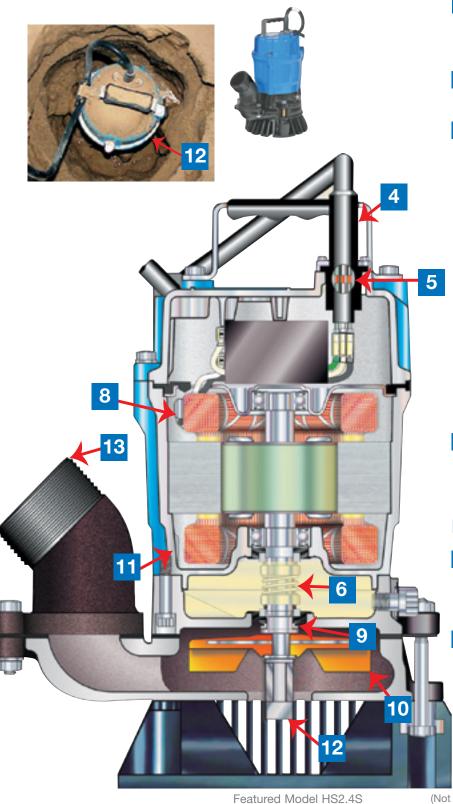






Featured Model LB-480





- 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)

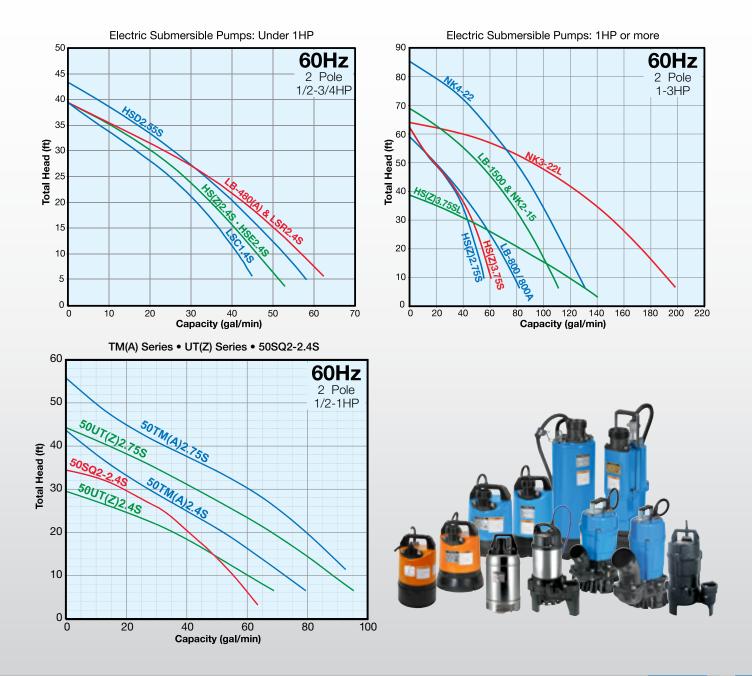


GROUP PERFORMANCE RANGE

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

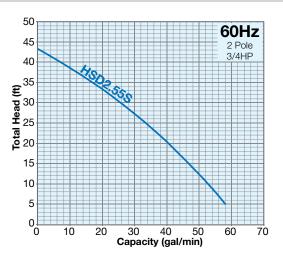
ELECTRIC SUBMERSIBLE PUMPS





HSD - EXTREME DUTY TRASH PUMP

EXTREME DUTY TRASH PUMP: Pumps water containing sand, solids and debris with minimal wear and clogging.





HSD2.55S Trash Pump 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 & eliminates clogging
- · High Chromium Iron impeller & agitator
- Ductile iron pump casing
- 3/4 HP motor; larger than HS2.4S
- Easy pump end disassembly

Optional Accessories - See page 24-27

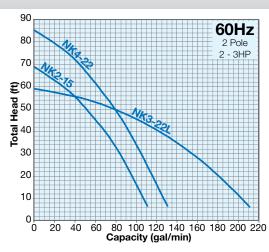
- Float switch Straight discharge
- Discharge hoses
 Quick connect fittings

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

Model	Motor Output	Dhaca	Discharge Bore Cable Length		Dimens	sion (inch)	Continuous Running	Shipping Weight
Model	(HP)	Filase	(inch)	(ft)	Diameter	Heights	Water Level (inch)	(lbs.)
HSD2.55S	3/4	Single	2	32	10 3/8	15 3/8	4 1/8	39

NK - HEAVY DUTY HIGH HEAD PUMP

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





NK2-15

NK2-15 • NK4-22 • NK3-22L Features

- Terminal board for voltage reconnect allows for change from 110V to 220V (NK2-15 only)
- NK2-15 & NK4-22: Semi Vortex Impeller and Synthetic Rubber Wear Plates for maximum durability and maintaining pump performance NK3-22L: Semi-Open Impeller
- Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces
- V-Ring Seal design protects mechanical seal from abrasive particles

Optional Accessories - See page 24-27

- TS-303 & TS-304 Float Switch for automatic operation
- Sand kit 2" NPT coupling Control panel
- Discharge hoses Quick connect fittings

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

Г	Model	Motor Output Phas		Discharge Bore Cable Length		Dimens	ion (inch)	Continuous Running	Shipping Weight
	Model	(HP)	riase	(inch)	(ft)	Diameter	Heights	Water Level (inch)	(lbs.)
Г	NK2-15	2	Single	3	32	9 7/16	24 1/2	3 1/4	80
	NK4-22	3	Single	3	32	9 7/16	24 1/2	3 1/4	81
	NK3-22L	3	Single	3	32	9 1/4	26 1/2	4 3/4	90



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																						
FLUID	Max. Capacity (GPM)	62.4	45	111	131	210	63	6	9	9	95	7	9	9	2																						
₽	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																							
PUMP	Impeller		Semi-	Vortex		Semi- Open	Semi- Vortex		Semi-	Vortex		Semi-		ni-Vortex																							
	Impeller Material	Urethane	e Rubber	Ductile Iro	on Casing	High Chrome	PPO Plastic		Polyph	enylene			PPO	Plastic																							
	Casing Material	NBR Rubber			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 Coupling	3/4" MNPS Coupling	3" MNPT	Coupling (2	?" optional)	2" FNPT Flange		2" MNPT	Γ Coupling		Γ Coupling		r Coupling		Coupling		Coupling		「Coupling		Coupling		「Coupling		T Coupling		Γ Coupling		Γ Coupling		「Coupling		2" FNP		T Flange	
Ž	Motor Output (HP)	2.	/3	2		3	1/2	1	/2	1		1	/2		1																						
MOTOR	Phase							Single	Phase																												
Ħ	Voltage (V)	11	15	110 or 220	230	220	115 or 230	1	15	115 or 220		115 c		or 230																							
	Amperage - Rated Current	5.9 (1	15V)	23.0 (110V) 11.5 (220V)	11.7	13	5.1 (115V) 2.9 (230V)	5.7 (115V)	9.9 (⁻ 5.2 (2		5.8 (115V) 2.9(230V)		8.7 (1 4.6 (2																							
	Amperage - Starting Current	12.4 (115V)	141 (110V) 70 (220V)	70	70	18 (115V) 9 (230V)	11.1	(115V)	30.7 (17.6 (110V) 220V)	18 (115V) 7.9 (230V)		35 (1 16.7 (
	Туре						Continuous	s Duty, Air F	illed, 3600	RPM, 60Hz																											
	Bearings				Double	shielded, p	ermanently	/ lubricated	, high-temp	C3 with B-	10 life of 60	0,000 hours																									
	Insulation Class	E	<u> </u>	В	F	В	Е			E				E																							
										Cirolo	Thomas			Cirolo T	'h avmal																						
	Motor Protection (Built-In)	Miniature	Protector	Circle '	Thermal Pr	otector	Mi 5-15P	niature Prof	tector	Prot	Thermal ector	Miniature	Protector	Prote	hermal ector																						
	Plug Configuration (Nema)	5-15P	(115V)		No Plug		(115V) No Plug (230V)	5-15P	(115V)	5-15I No Plu	P (115V) ug (220V)		5-15P No Plug	(115V) g (230V)																							
	Cable - # of Conductors x AWG		6AWG	3C x 12AWG		14AWG		3C x 16AW	'G		4AWG	3C x 1	6AWG		4AWG																						
	Standard Cable Length (ft.)	32	20		32	1		20		3	32		3	32 T																							
	Max. Cable Length (ft.)	110 (115V)	75 (110V) 300 (220V)	180	150	100 (115V) 380 (230V)	110 (115V)		115V) 220V)	45 (1 180 (2		48 (1 180 (2																							
	Recommended Generator Capacity (watts)	27	00	7200	10	000	3000	27	700	46	600	30	000	45	00																						
	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																						
₽	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																							
€	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																																				



SPECIFICATIONS - ENGINE PUMPS: TE • EPT • THP

		TE2-25H	TE3-50HA	TE3-80HA	TE2-100HA	EPT3-50HA	EPT3-80HA	EPT3-100HA	THP-4070HA
		1" Dewatering Pump	2" Dewatering Pump	3" Dewatering Pump	4" Dewatering Pump	2" Trash Pump	3" Trash Pump	4" Trash Pump	High Pressure Pump
끝	Max. Capacity (GPM)	34	137	264	476	185	357	569	100
FLUID	Max. Capacity (GPH)	2040	8200	15840	28560	11100	21420	34140	6000
	Max. Head (ft)	115	105	105	92	92	92	95	230
	Max. Solid Diameter (in.)	0.197		0.217		0.787	1.	22	0.197
PUMP	Impeller Type				Semi-Open				Closed
₹	Impeller Material		Cas	t Iron		Hig	h Chrome Ca	asting	Aluminum
	Volute Casing Material				Ca	st Iron			
	Wear Plate Material		Integral Pa	art of Volute		;	Stainless Ste	eel	Integral Part of Volute
	Pump Casing Material		Die Cas	t Aluminum			Cast	Aluminum	
	Shaft Seal - Type / Material			5	Silicon Carbid	le Mechanica	l Seal		
	Seal Lubricant - Type				W	/ater			
	Discharge Connection	1" NPSH Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	1"x2, 1.5"x1 NPSH Coupling
	Suction Connection	1" NPSH Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	1"x2, 1.5"x1 NPSH Coupling
EZ	Brand				Н	onda			
ENGINE	Model	GX-25	GX-120	GX-160	GX-240	GX-160	GX-240	GX-340	GX-160
т	Туре			Air-	Cooled, 4-Cy	linder with O	il Sensor		
	Output (HP)	1.1	4	5.5	8	5.5	8	11	5.5
	RPM	2220				3600			
	Fuel				Unleade	ed Gasoline			
	Fuel Tank Capacity (US Gallon)	0.15	0.66	0.95	1.59	0.95	1.6	1.7	0.95
	Continuous Run Time Per Tank (hr.)	1.21	3	3.3	3.2	3.3	3.2	2.6	3.3
	Starting Method				Reco	il Starter			
DI	Length (inches)	9	18 1/2	20 1/2	25	23 1/4	27 1/2	30 1/8	21
Ē	Width (inches)	14	14 5/8	16 1/2	18	18 1/4	20 1/8	20 1/8	16
DIMENSION	Height (inches)	13	17 1/8	18 1/8	23 1/2	17 3/8	25 5/8	26	18
Ž	Shipping Weight (lbs.)	12	55	64	109	82	136	160	62



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 for Electric Submersible Pumps, Engine Pumps & Portable Generators

Sand Kit Model: K15-SK / K22-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-200X for TPG4 Series Generator & Gas Engine Pumps



Heavy-duty and easy to install our wheel kits, and lifting bails fit Tsurumi engine pumps & generators.

PGWK-200X Wheel Kit

for TPG4 generators & TE/EPT/THP engine pumps

PGLB-1X Lifting Bail

for all TPG4 generators & TE/EPT/THP engine pumps* *excluding TPG4-3000HDX



PUMP ACCESSORIES GUIDE for Electric Submersible Pumps

Electric Submersible Pumps

	Float Switch	Sand Kit	Residue Kit	2" Straight Discharge	3" Straight Discharge
MODEL	⊕ 0	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		4
LB-480	Х	X	Х			
LB-480A	Х	X	X			
LB-800	X	X	X			
LB-800A	X	X	X			
LB-1500*	X	X	X	X	X	X
HS2.4S	X	X	X			
HSZ2.4S	X	X	X			
HSE2.4S	X	X	X			
HS2.75S	X	X	X			
HSZ2.75S	X	X	X			
HS3.75S				X	X	Х
HSZ3.75S				X	X	Х
HS3.75SL				X	X	Х
HSZ3.75SL				X	Х	Х
HSD2.55S	Х	X	Х			
NK2-15				X	X	X
NK4-22				X	X	X
NK3-22L				X	X	Х
LSR2.4S	Х	X	X			
LSC1.4S						

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



PUMP ACCESSORIES GUIDE for Engine Pumps & Portable Generators

Engine Driven Pumps: Discharge Size 1" and 1 1/2"

	Wheel Kit	Lifting Bail	1" Mill Hose	1" Suction Hose NPT	1.5" Mill Hose	1.5" Suction Hose NPT	1" Lexan Nozzle	1.5" Lexan Nozzle
	PGWK-200X	PGLB-1X	XHM1N50	XHS1N20	XHM15N50	XHS15N20	XHLN1N20	XHLN15N20
MODEL	Wheel kit ONLY	Lifting Bail ONLY	.5	0	.0	0		1
TE2-25H			Х	X				
THP-4070HA	Х	Χ	Х		Х	Х	Х	Х

Engine Driven Pumps: Discharge Size 2", 3", and 4"

					-							
	Strainer	Wheel Kit	Lifting Bail	2" Hose Kit NPT	2" Hose Kit Quick	2" Dis. Hose NPT 50'	2" Dis. Hose Quick 50'	2" Suc. Hose NPT 20'		2" Quick Disconnect 'A'	3" Hose Kit NPT	3" Hose kit Quick
		PGWK-200X Wheel kit	PGLB-1X Lifting Bail		XHK2RQC	XXHS2D	XHD2QC50	XXHS2S	XHS2QC20	G200-A-AL	XHK3RNPT	XHK3RQC
MODEL	8	ONLY	ONLÝ	S	۹	1		0	0		Ş	٩
TE3-50HA	Z047	Х	Х	Х	Х	Х	Х	Х	Х	Х		
TE3-80HA	Z048	X	Х								Х	Х
TE2-100HA	Z055	Х	Х									
EPT3-50HA	Z049	Х	Х	Х	Х	Х	Х	Х	Х	Х		
EPT3-80HA	Z050	X	Х								Х	Х
EPT3-100HA	Z051	X	Χ									
TD(E)6-200	Included			Х	X	Х	Х	X	Х	Х		
TD(E)6-300	Included										Х	Χ

Engine Driven Pumps: Discharge Size 2", 3", and 4" (Continued)

						•						
	3" Dis. Hose NPT 50'	3" Dis. Hose Quick 50'	3" Suc. Hose NPT 20'		3" Quick Disconnect 'A'		4" Hose kit Quick	4" Dis. Hose NPT 50'	4" Dis. Hose Quick 50'	4" Suc. Hose NPT 20'	4" Suc. Hose Quick 20'	4" Quick Disconnect 'A'
	XXHS3D	XHD3QC50	XXHS3S	XHS3QC20	G300-A-AL	XHK4RNPT	XHK4RQC	XXHS4D	XHD4QC50	XXHS4S	XHS4QC20	G400-A-AL
MODEL	A		0	0	H	S.	٩	A		0	Q	H
TE3-50HA												
TE3-80HA	Х	Х	Χ	Х	Х							
TE2-100HA						Х	Х	Х	Х	X	Х	Х
EPT3-50HA												
EPT3-80HA	Х	Х	Х	Х	Х							
EPT3-100HA						Х	Х	Х	Х	Х	Х	Х
TD(E)6-200												
TD(E)6-300	Х	Х	Χ	Χ	Х							

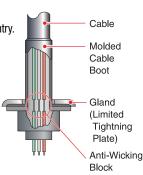
Portable Generators

	Wheel Kit	Lifting Bail
	PGWK-200X	PGLB-1X
MODEL	Wheel kit ONLY	Lifting Bail ONLY
TPG4-3000HDX	Х	
TPG4-4500HDX	X	X
TPG4-6000HDX	Х	Х
TPG4-7000HDX	Х	Х
TPG4-7000HDXE	Х	Х



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.



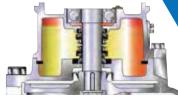
V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



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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