



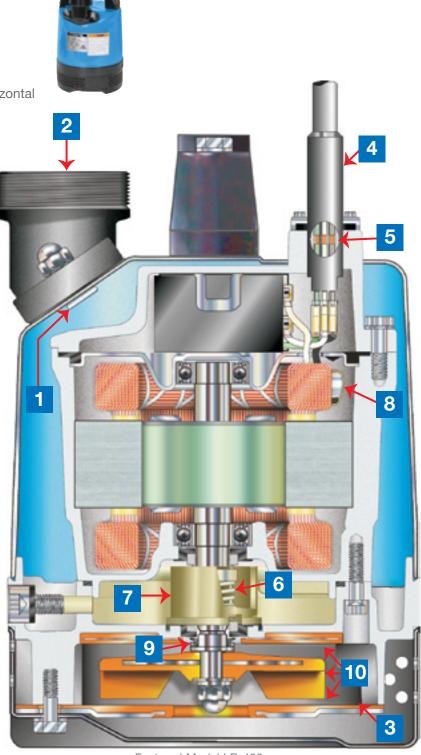
## **ELECTRIC SUBMERSIBLE PUMPS** - Long Life by Design

### **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.

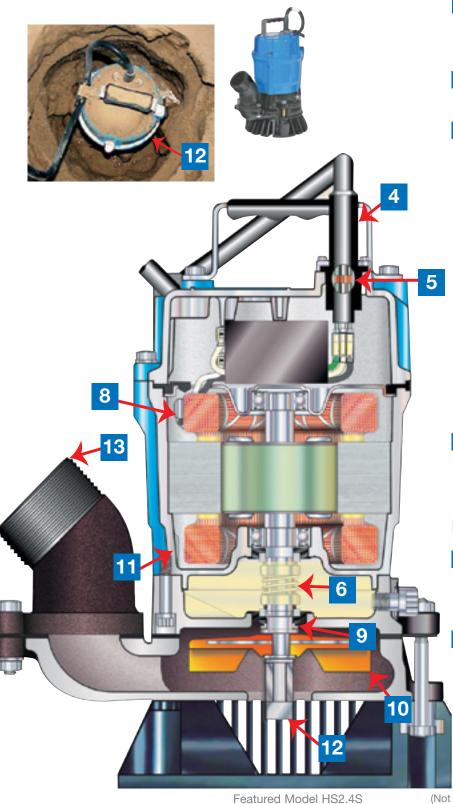






Featured Model LB-480





- 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)

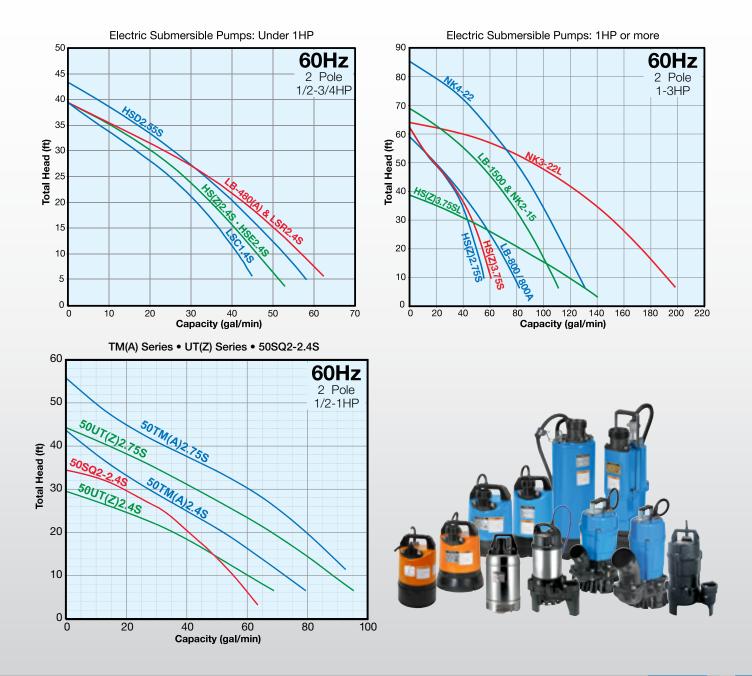


## **GROUP PERFORMANCE RANGE**

**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** 





## LB-480 • LB-480A - DEWATERING PUMPS

**LB-480** Slimline design pump fits 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** features Relay Unit (Level Sensor) which incorporates low voltage, stainless steel probes, epoxy and rubber encapsulated timing relay, that turns the unit off when water is not present. It saves energy and extends the life of the motor and bearings!



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

Optional Accessories - See page 24-27

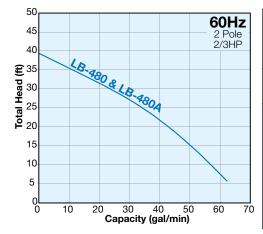
- TS-301 Float Switch for automatic operation
- Discharge hoses
- · Quick connect fittings

## **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

#### **Technical Features of Automatic (A) Water Level Sensor**

- Sensitive electrodes detect water to start pump operation even when foreign materials are present
- Internal 60-second 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



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.

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

						.9		
Model	Motor Output	Dhasa	Discharge Bore	Cable Length	Dimens	ion (inch)	Continuous Running	Shipping Weight
Model	(HP)	Tilase	(inch)	(ft)	Diameter	Heights	Water Level (inch)	(lbs.)
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*	29

\*Pump Starting Water Level



## **LB-800 • LB-800A** - DEWATERING PUMPS

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





#### **LB-800 Features**

- Designed to fit an 8" pipe
- Up to 59' shut off head
- Available in 230V single-phase
- · Dual Inside Mechanical Seal With SiC faces provides longer operational life
- Oil Lifter provides lubrication of the seal faces

## Optional Accessories - See page 24-27

- Float Switch for automatic operation (TS-302 for 115V, TS-303 for 230V)
- · Discharge hoses
- · Quick connect fittings

#### **LB-800A 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

#### **Technical Features of Automatic (A) Water Level Sensor**

- Sensitive electrodes detect water to start pump cycling even when foreign materials are present
- Internal 60-second timer eliminates frequent on/off cycling in rough water to extend motor life
- Automatic water level 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	Dhasa	Discharge Bore	Cable Length	Dimens	sion (inch)	Continuous Running	Shipping Weight
Model	(HP)	Filase	(inch)	(ft)	Diameter	Height	Water Level (inch)	(lbs.)
LB-800	1	Single	2	50	7 9/16	13 7/16	2	37
LB-800A	1	Single	2	50	8 3/4	13 7/16	6 3/4*	38

\*Pump Starting Water Level



## **LB-1500** - DEWATERING PUMPS

LB-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.





#### 80 70 60 60 E 50 10 0 20 10 0 20 10 0 20 10 10 120 Capacity (gal/min)

#### **LB-1500 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 and extends seal life by ten times using no additional power, even when oil is down to 1/3 normal level.
- 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

## Optional Accessories - See page 24-27

- Float switch TS-304
- Discharge hoses
- Quick connect fittings
- Control panel
- 2" discharge

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

Model	Motor Output	Dhaso	Discharge Bore	Cable Length	Dimens	sion (inch)	Continuous Running	Shipping Weight
Model	(HP)	Filase	(inch)	(ft)	Diameter	Height	Water Level (inch)	(lbs.)
LB-1500	2	Single	3 (2)*	50	7 3/8	23 5/16	3 1/8	85

\*2" is optional



# **SPECIFICATIONS** - SINGLE PHASE PUMPS: LB • HS(Z) • HSE • HSD

		LB-480	LB-480A	LB-800	LB-800A	LB-1500	HS2.4S	HSZ2.4S	HS2.75S	HSZ2.75S	HS3.75S	HSZ3.75S	HS3.75SL	HSZ3.75SL	HSE2.4S	HSD2.55S
		2" Dewatering Pump	2" Auto Dewatering Pump	2" Slimline Pump	2" Auto Slimline Pump	3" Slimline Pump	2" Sand/Solid Trash Pump	2" Auto Trash Pump	2" Sand/Solid Trash Pump	2" Auto Trash Pump	3" Sand/Solids Trash Pump	3" Auto Trash Pump	3" Sand/Solids Trash Pump	3" Auto Trash Pump	2" Trash Pump with Auto Water Level Sensor	2" Extreme Durable Sand Pump
F	Max. Capacity (GPM)	62	2.4	8	32	111	5	53	5	5	6	1	10	32	53	58
FLUID	Max. Head (ft.)	39	9.5	5	i9	69	3	39	6	2	62 36 39 43					43
	Solid Diameter (in.)			0.236							0.276					0.393
Ы	Impeller		Semi-	Vortex		Semi-Open					Sem	i-Vortex				
dWNd	Impeller Material		Urethane	e Rubber		High Chrome				ı	Urethane Rubber					High Chrome
	Casing Material	Ethylene Rub	Propylene ober		Rubber & Rubber	Butadiene Rubber & Natural Rubber & Steel				•	Gray Iron C	asing				Ductile Iron Casing
	Wear Plate Material		Urethane	e Rubber		Natural Rubber					Integral F	Part of Casin	g			
	Shaft Seal - Type / Material				Double Insid	e Mechanica	I Seal with S	ilicon Carbio	le faces on le	ower seals a	nd Carbon	Ceramic Fac	es on upper	seals		
	Seal Lubricant - Type				S	AE 10W/20W	or Turbine	Oil (ISO VG3	2)							
	Seal Lubricant Amount (oz.)		5	.2		12.5					5	.4				
	Seal Protection					V-Ring a	nd Oil Lifter									
	Discharge Connection		2" MNPT	Coupling		3" MNPT Coupling (2" is optional)	2" MNPT	Coupling	2" MNPT	Coupling		Coupling otional)	3" MNPT	Coupling	2" MNPT	Coupling
M	Motor Output (HP)	2	/3		1	2	1.	/2		1		ı		1	1/2	3/4
ноток	Phase					•	Single Phase	9								
OR	Voltage (V)	115 or 220	115		115 or 230		115 (	115 or 220 115 115 or 230		115 or 230			115 or 230		115	115
	Amperage - Rated Current	5.9 (115V) 3.0 (220V)	5.9 (115V)	10.5 ( 5.2 (2		26.2 (115V) 13.2 (230V)	5.2 (1 2.7 (2		10.0	(115V)	9.7 (115V) 4.9 (230V)				5.2 (115V)	7.3 (115V)
	Amperage - Starting Current	12.4 (115V) 5.9 (220V)	12.4 (115V)	20.6 ( 12.6 (		112 (115V) 56 (230V)	12.4 ( 5.9 (2	(110V) 220V)	29.7	(115V)			(115V) (230V)		12.4 (115V)	19.0 (115V)
	Туре		l			1	Cor	ntinuous Dut	y, Air Filled, 3	3600 RPM, 6	0Hz				1	
	Bearings					Double shie	elded, perma	nently lubric	ated, high-te	emp C3 with	B-10 life of	60.000 hou	rs			
	Insulation Class					В		, , , , ,	, 5							
	Motor Protection (Built-In)	Miniature	Protector	Circle	Thermal Pro	otector	Miniature	Protector			Circle Therr	nal Protecto	r		Miniature Protector	Circle Thermal Protector
	Plug Configuration (Nema)	5-15P (115 (22		5-15P (115 (23	6V) No Plug 0V)	No Plug	5-15P (115 (22	5V) No Plug 0V)				5-15P (115V	) No Plug (23	30V)		
	Cable - # of Conductors x AWG	3C x 1	6AWG	3C x 1	4AWG	3C x 12AWG (110V) 3C X 12AQG (230V)	2C v 1	6AWG			3C x <sup>-</sup>	14AWG			3C x 1	6AWG
	Standard Cable Length (ft.)	3	2		50		2	20			-	32			32	32
	Max. Cable Length (ft.)	110 (115V) 420 (220V)	110 (115V)	100 ( <sup>2</sup>		70 (115V) 160 (230V)		115V) 220V)			100 (115V) 430 (230V)			120 (115V)	90 (115V)	
	Recommended Generator Capacity (watts)	27	00	46	600	8400	24	100	3700			2400	2900			
	Optional Float Switch	TS-301	N/A	TS-302 (110V) TS-303 (230V)	N/A	TS-303 (230V operation only)	TS-301 (110V)	N/A	TS-302	N/A	TS-302	N/A	TS-302	N/A	N/A	TS-301
D	Diameter (in.)	7 3/8	8 3/4	7 9/16	8 3/4	7 3/8	10 1/16	13 1/2	11 7/16	13 1/2	12 7/16	14 9/16	12 7/16	15 3/4	10 1/16	10 3/8
ME	Height (in.)	11 1/4	11 1/4	13 7/16	13 7/16	23 5/16	12 15/16	15 1/8	15 3/8	17 1/2	15 5/16	18 11/16	16 3/4	19 7/8	14 1/8	15 3/8
DIMENSION	Continuous Running Water Level (C.W.L) (in.)	2	4 1/2 (Pump Starting Water Level)	2	6 3/4 (Pump Starting Water Level)	3 1/8	3 1/2	15 1/8 (Pump Starting Water Level)	3 1/2	17 1/2 (Pump Starting Water Level)	3 1/2	18 11/16 (Pump Starting Water Level)	4 3/4	19 7/8 (Pump Starting Water Level)	6 1/2 (Pump Starting Water Level)	4 1/8
	Shipping Weight (lbs.)	28	29	37	38	85	30	30	50	50	50	50	50	50	30	39



## 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	<b>⊕</b> 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	X	X	X			
LB-800	X	X	X			
LB-800A	X	X	X			
LB-1500*	X	X	X	X	X	Х
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	Х	Х			
NK2-15				X	X	X
NK4-22				X	X	X
NK3-22L				X	X	Х
LSR2.4S	Х	X	X			
LSC1.4S						

<sup>\*</sup> 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	X	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	Х	Х								Х	Х
EPT3-100HA	Z051	X	Χ									
TD(E)6-200	Included			Х	X	Х	Х	X	Х	X		
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	<b>A</b>		0	0	H	S.	٩	<b>A</b>		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							

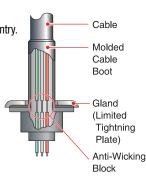
## **Portable Generators**

	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.



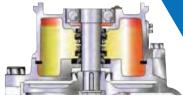
V-Ring: V-Ring is mounted at the top of the impeller and is brought in close contact to the bottom of the mechanical seal by the internal pressure of the pump casing. This V-Ring acts as a dust seal to prevent fine abrasive particles in the pumping fluid from reaching the mechanical seal.



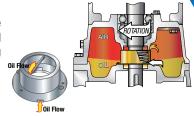
High-Performance Motor: Dry type, squirrel-cage, induction motor, housed in a watertight casing, conforms to either insulation class B or E, or F. In both of these classes, all standard pumps can be used in ambient temperature up to 104°F (40°C).

#### **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.





# BUILT FOR WORK® TSURUMI (AMERICA), INC.

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