



**TSURUMI PUMP**



**BUILT FOR WORK**



**CONTRACTOR PUMPS & GENERATORS**

Electric Submersible Pumps • Engine Powered Pumps • Generators • Accessories

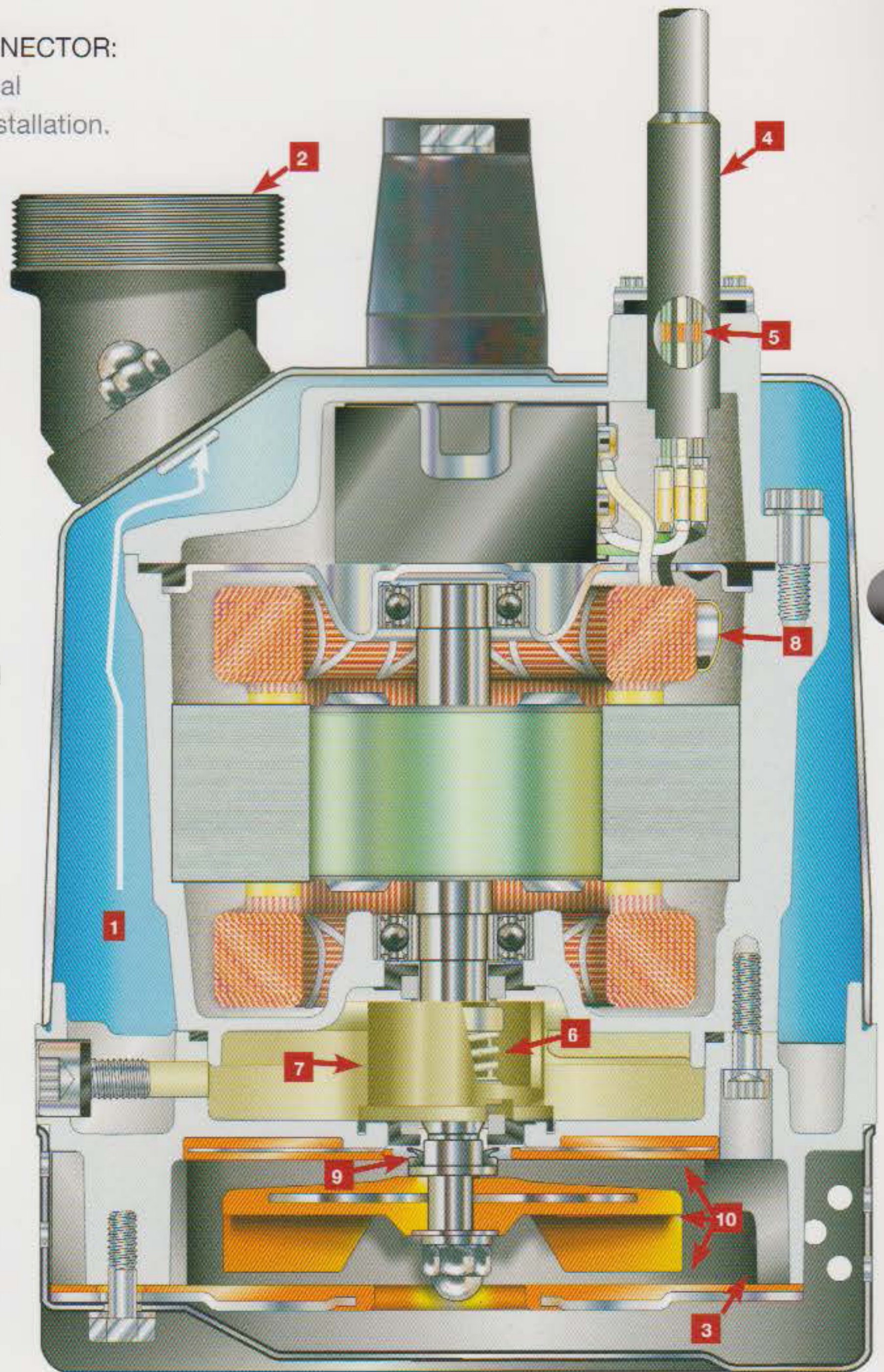
# Tsurumi Pump Electric Submersible Pumps

## 480/A Features

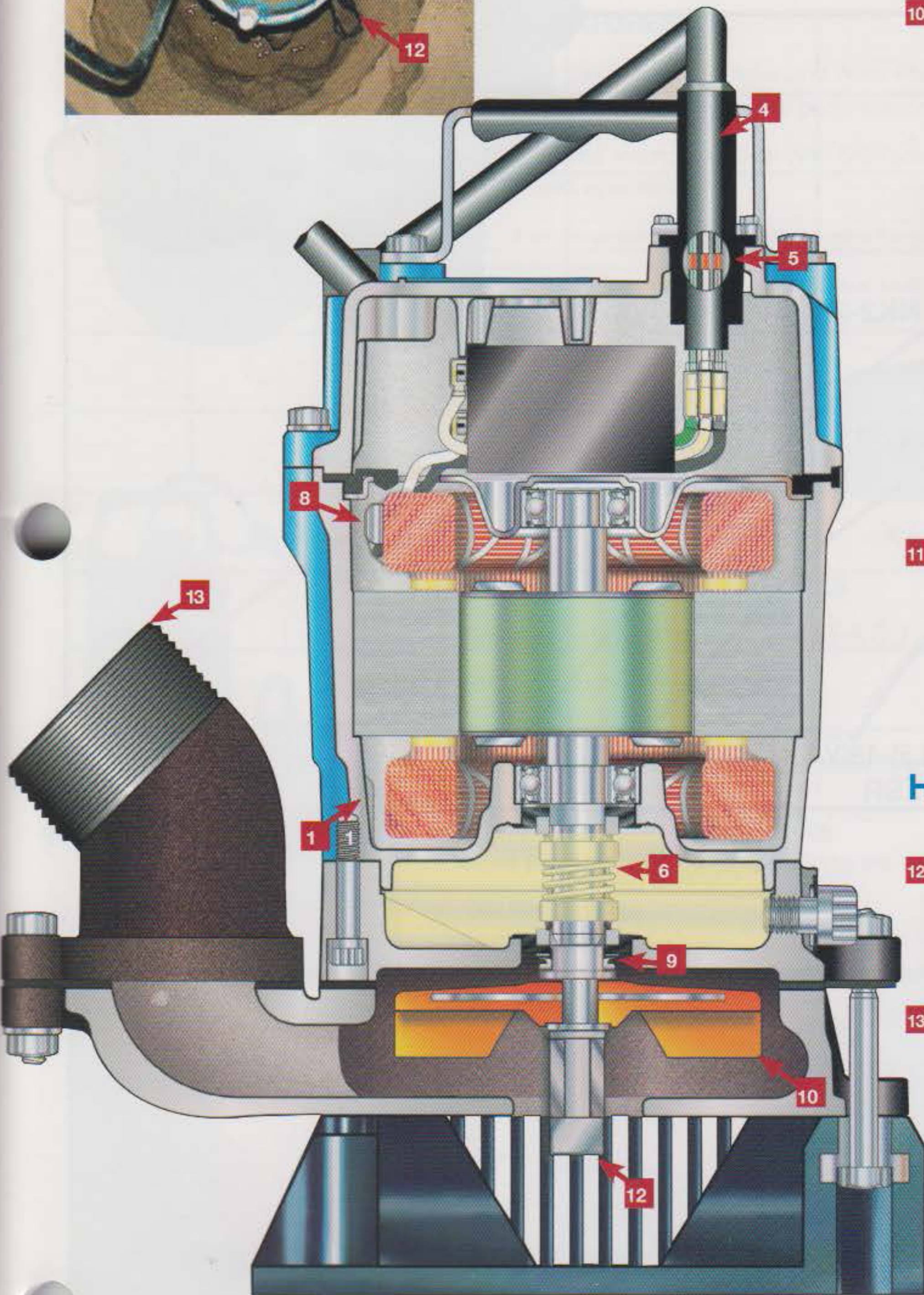
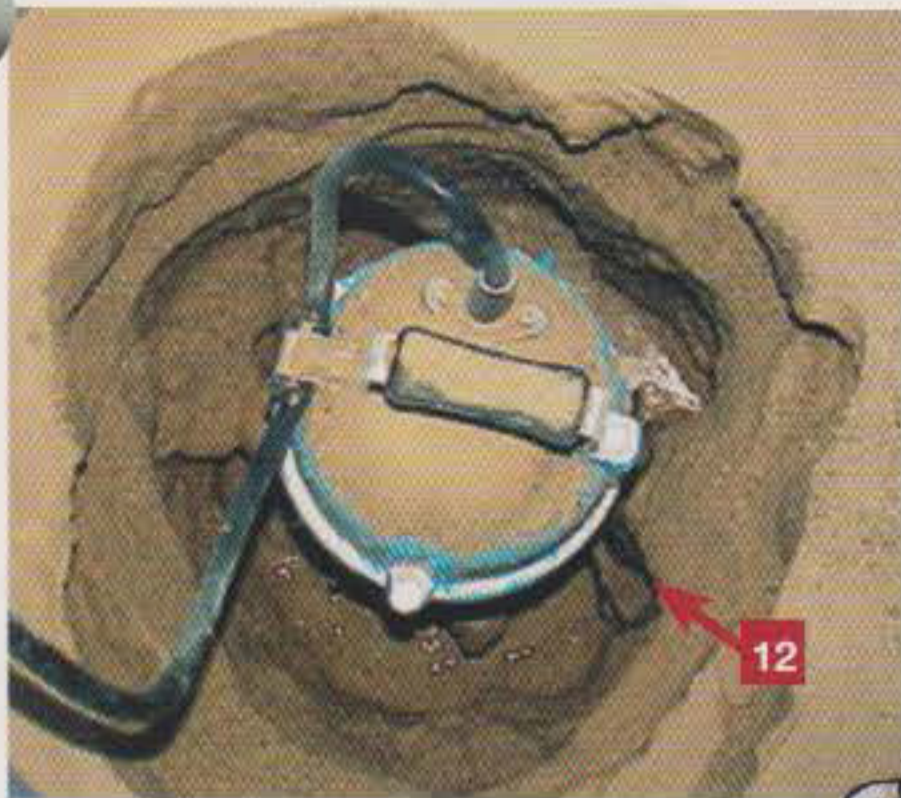
- 1** TOP DISCHARGE, FLOW THRU DESIGN
- 2** MULTI-DIRECTIONAL DISCHARGE CONNECTOR:  
Can be configured for horizontal or vertical discharge. Providing for a more stable installation.
- 3** RUBBER CASING WITH LARGE ROUNDED CUT-WATERS: Resists wear and degradation of performance due to abrasive particles.

## Long-life by design

- 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** DOUBLE INSIDE MECHANICAL SEAL WITH SILICON CARBIDE FACES:  
Provides the longest 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



**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

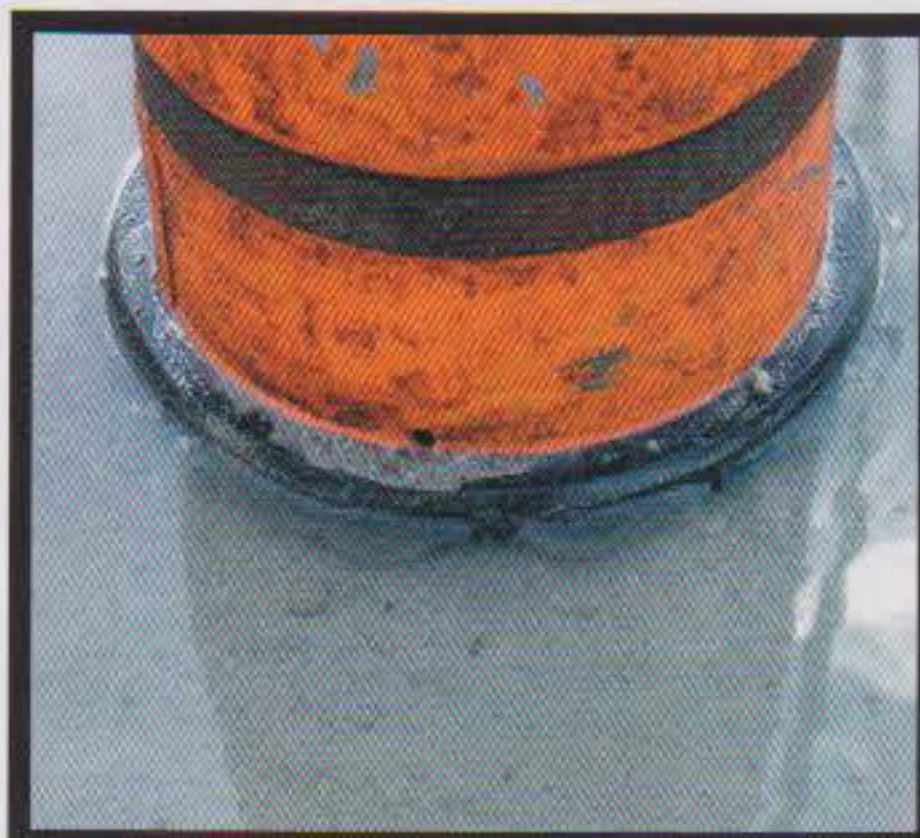
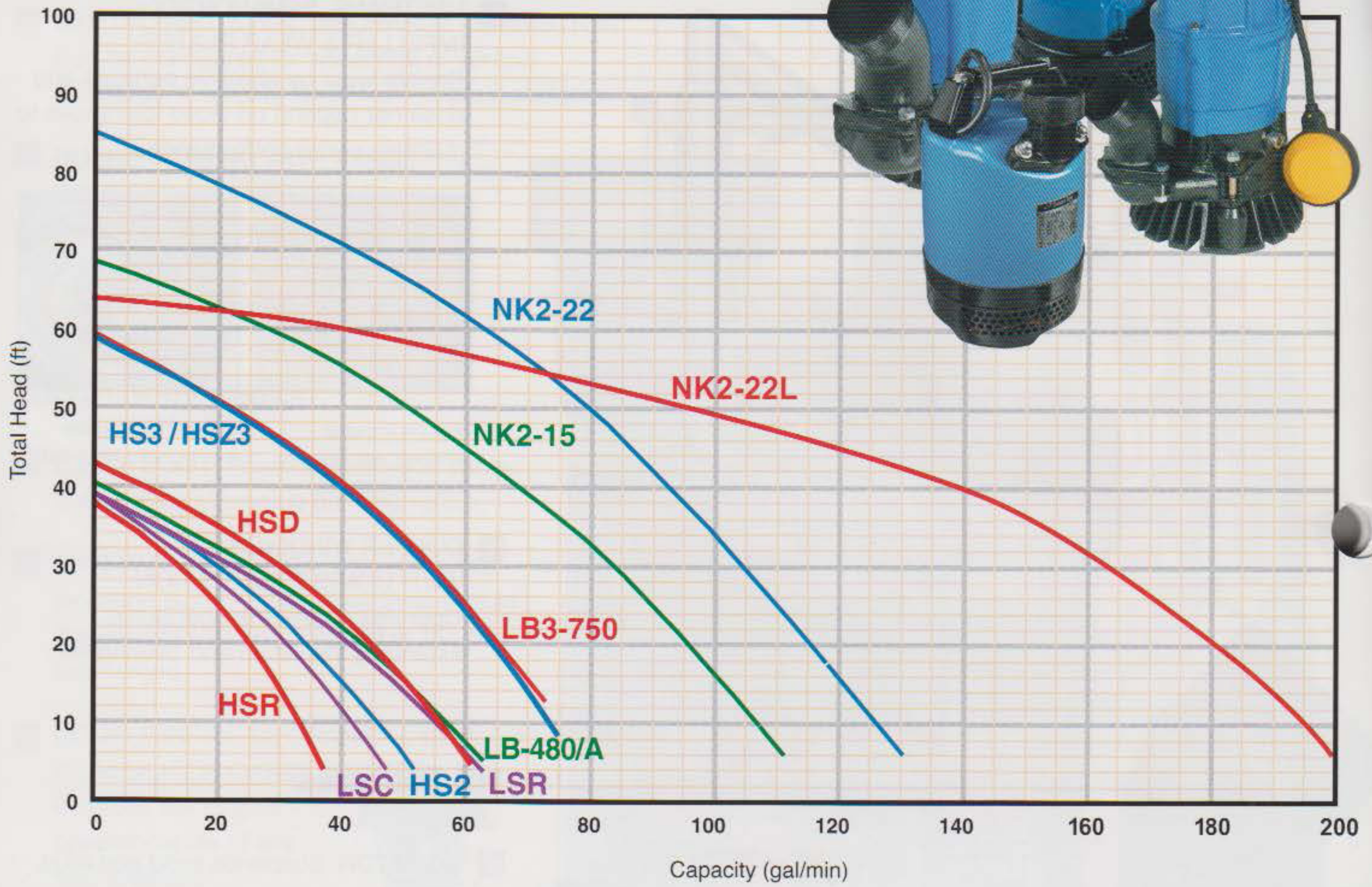
**12** AGITATOR: Suspends sand and mud, allowing for sediment removal from sumps or basins.

**13** 45° ANGLED DISCHARGE CONNECTOR: Provides for a more stable installation for either vertical or horizontal discharge hose.

Model HS2.4S-62 (Not all features available on every Tsurumi submersible pump).

# Electric Submersible Pumps

## PERFORMANCE CURVES



## LB GENERAL DEWATERING PUMPS

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-480 FEATURES

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



### Optional Accessories

- TS-301 Float Switch for automatic operation.



**New:** Multi-directional discharge connector



LB3-750

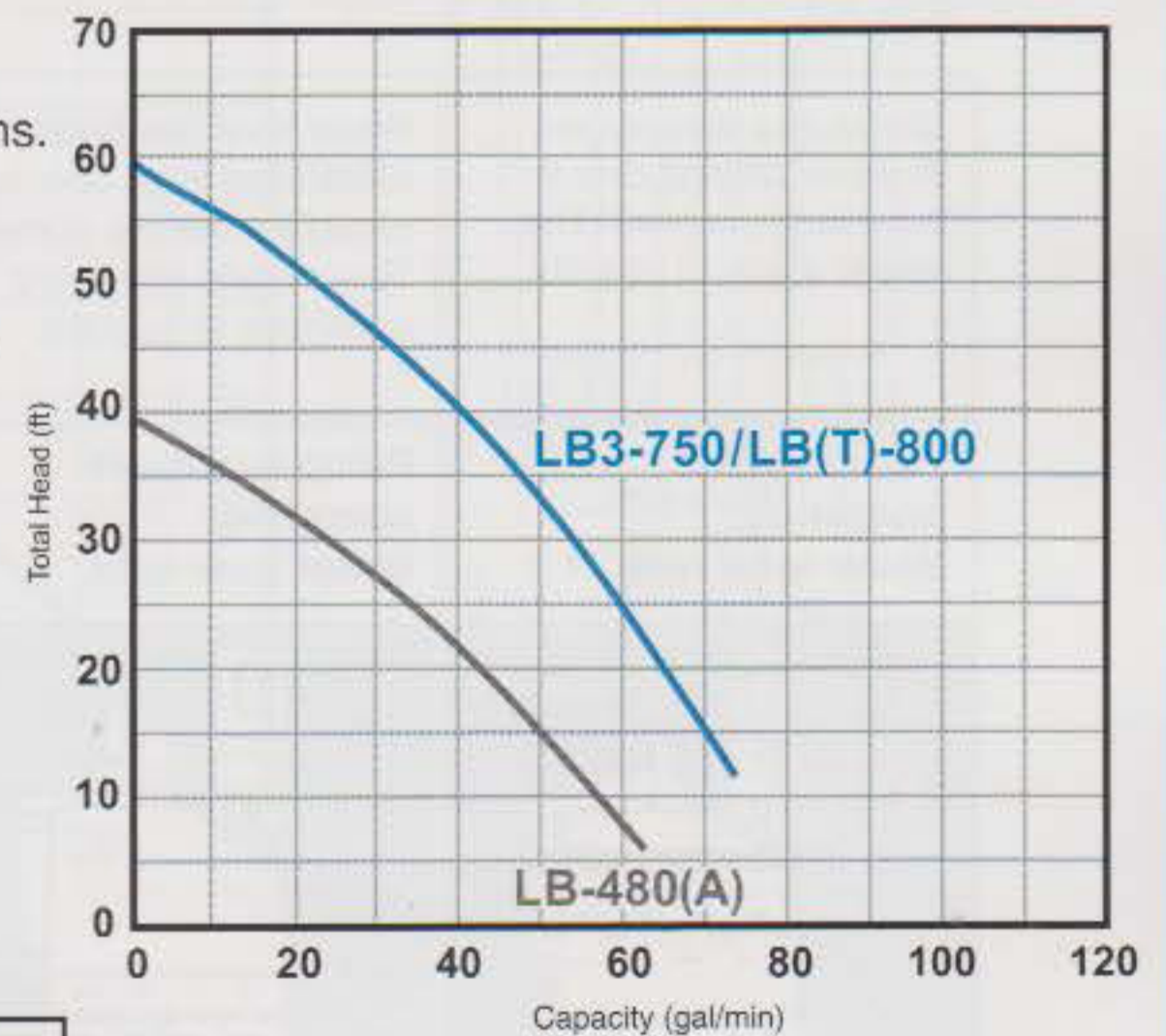
LB(T)-800

### LB3-750 / LB(T)-800 FEATURES

- Designed to fit an 8" pipe.
- Up to 60' shut off head.
- Available in 220V single-phase for lower amperage draw and longer cable extensions.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)

### Optional Accessories

- Float Switch for automatic operation TS-302 for 110V, TS-303 for 220V.
- 3-inch NTP Coupling available



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

Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
LB-480	2	28	32	7 3/8	11 3/16	2
LB-480A	2	30	32	8 3/4	11 3/16	4 1/2
LB3-750	2	43	50	7 5/16	16 1/4	3 1/8
LB(T)-800	2	30	50	7 1/2	13 7/16	2

# Electric Submersible Pumps

LB SERIES

## LB GENERAL DEWATERING PUMPS

Model 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-480A FEATURES

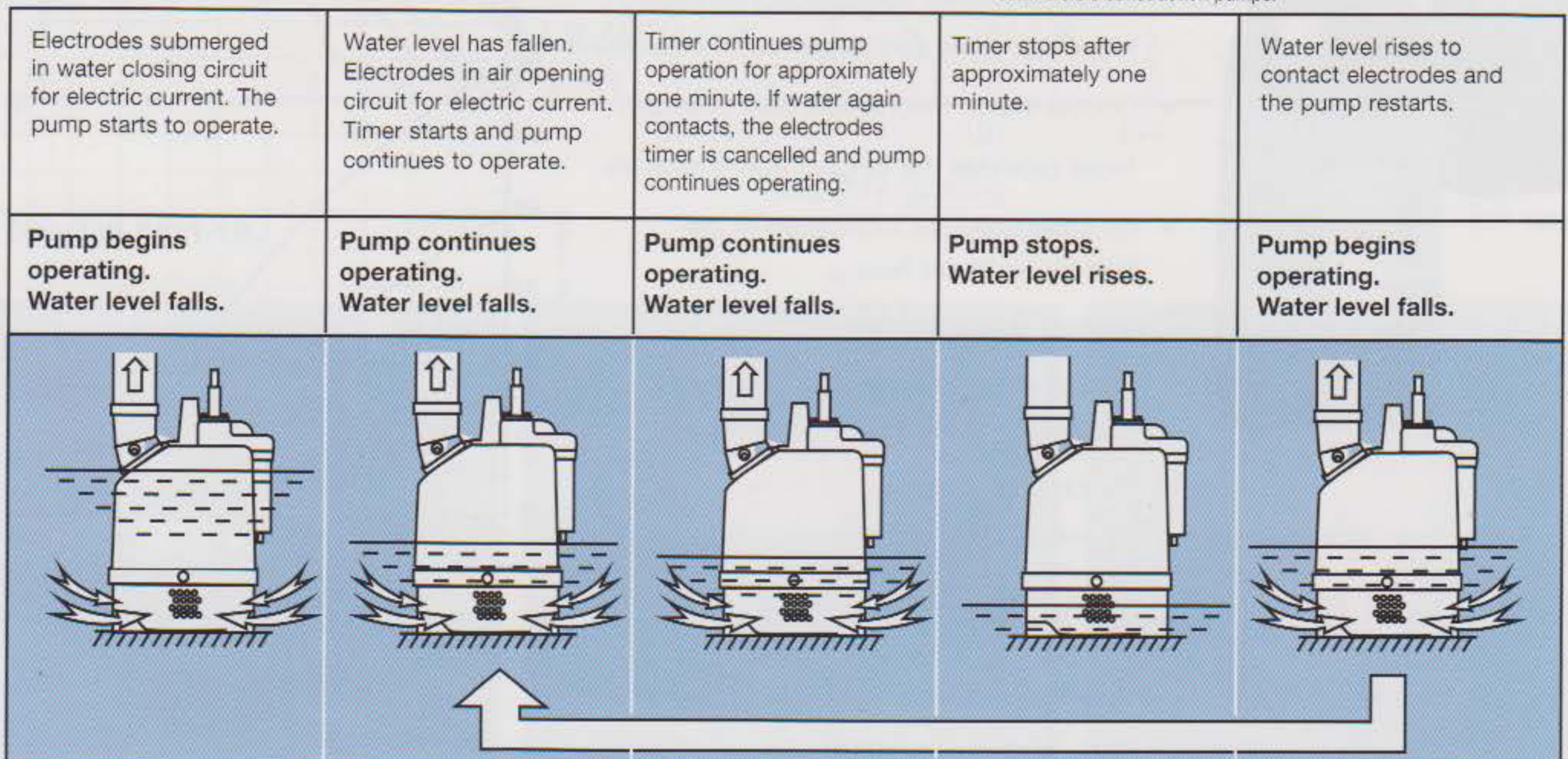
- No control panel or float switches required.
- Performs like the non-automatic pump with no special float installation required.
- Requires very small space to operate - only 8 3/4" diameter.
- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability with maintaining pump performance.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



### Technical Features of EL-1 Relay Unit

- 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 Services to UL and CSA standards for submersible construction pumps.



# LB(T)-1500 DEWATERING PUMP

## LB(T)-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 down to 1/3 of normal oil level and extends seal life by ten times using no additional power.

**Dual Inside Mechanical Seal SIC x SIC:**

Double 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:**

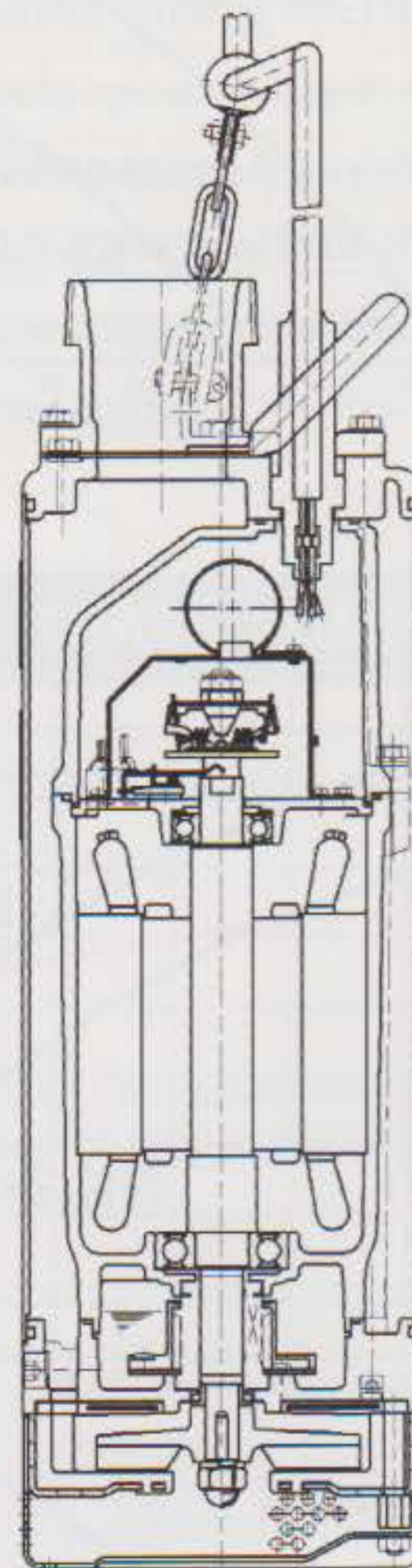
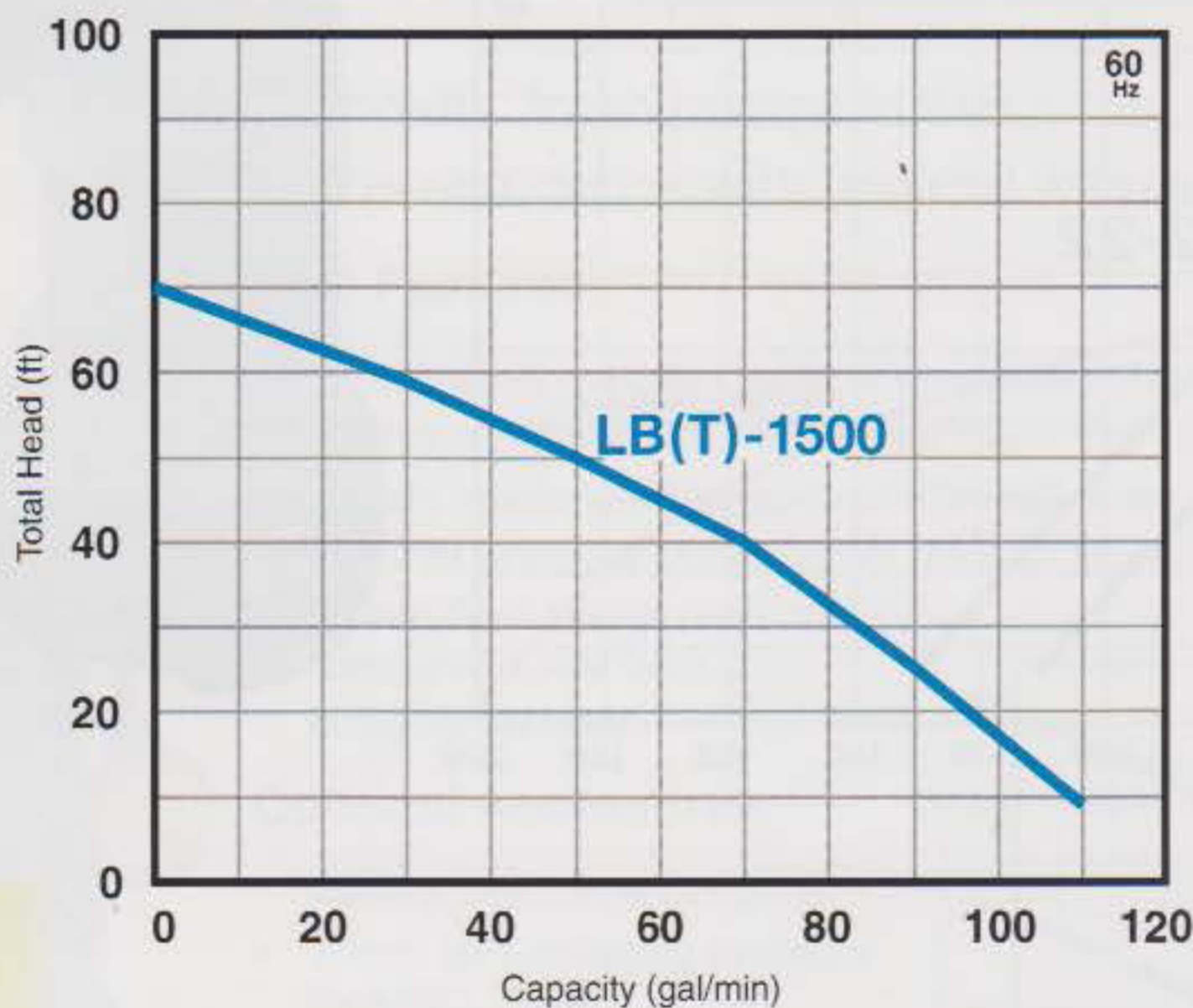
For wear resistance and easy maintenance.

**V-Ring System:**

Protects the shaft seals.



Fits in 8 inch pipe!



Model	Discharge Bore (inch)	Motor Output (HP)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
					Diameter	Height	
<b>LB(T)-1500</b>	2 / 3	2.0	85	50	7 3/8	23 5/8	3 5/32
Max Capacity	Max Head		Amp Rate Current		Max Cable		Solids Diameter (in.)
111 GPM	68 ft		26.2-115v, 12.7-230 v		70-ft 155v, 83ft 230v		1/4

\*Also available in 220V and 440V in Three Phase.

# Electric Submersible Pumps

## NK HEAVY DUTY, HIGH HEAD PUMP

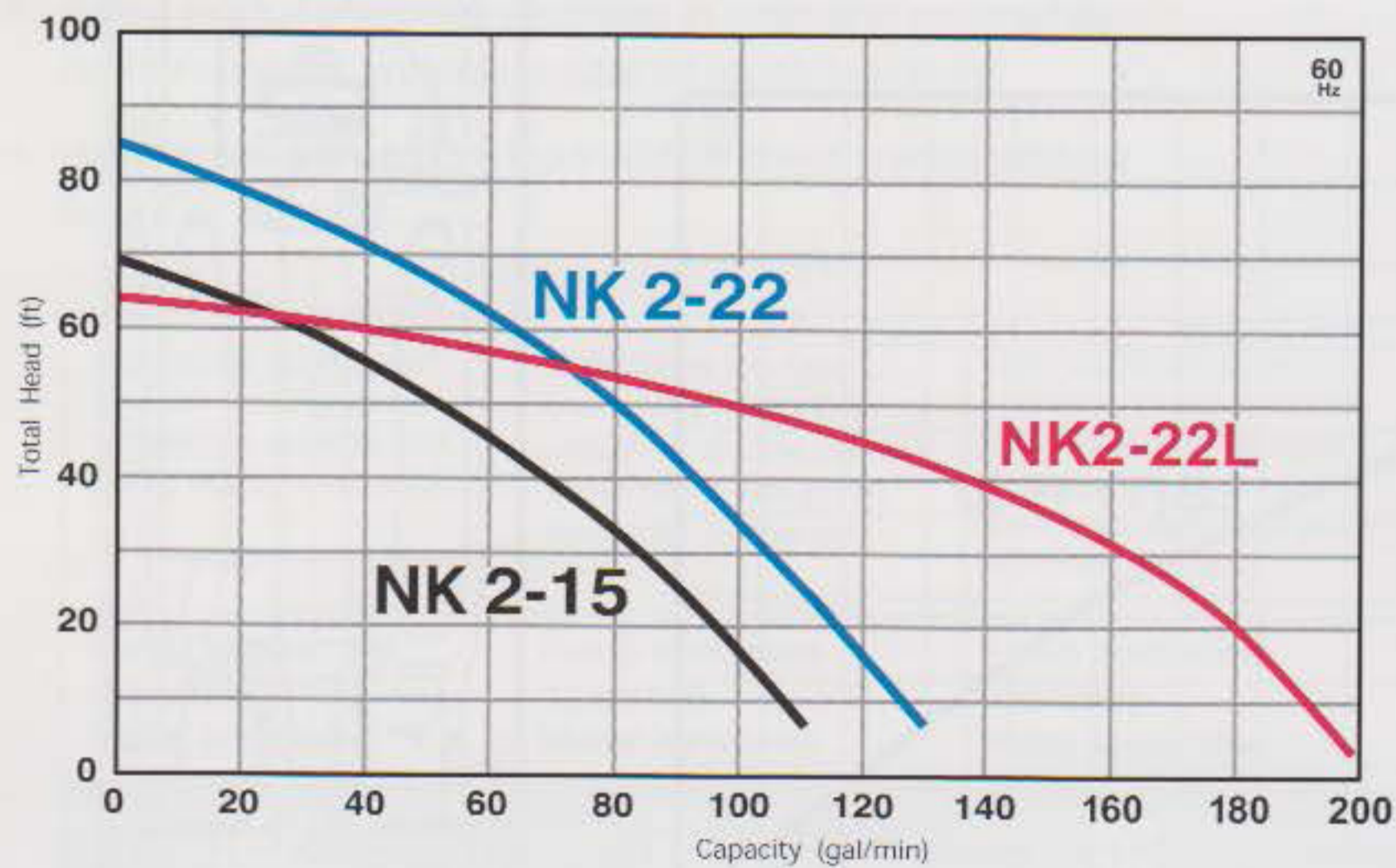
Heavy duty, high head pumps capable of handling abrasive materials with minimal wear.


### 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.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)
- 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 Services to UL and CSA standards for submersible construction pumps.

Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
NK2-15 & NK2-22(L)	3	81	32	9 7/16	24 1/2	3 1/4



## HS TRASH PUMP

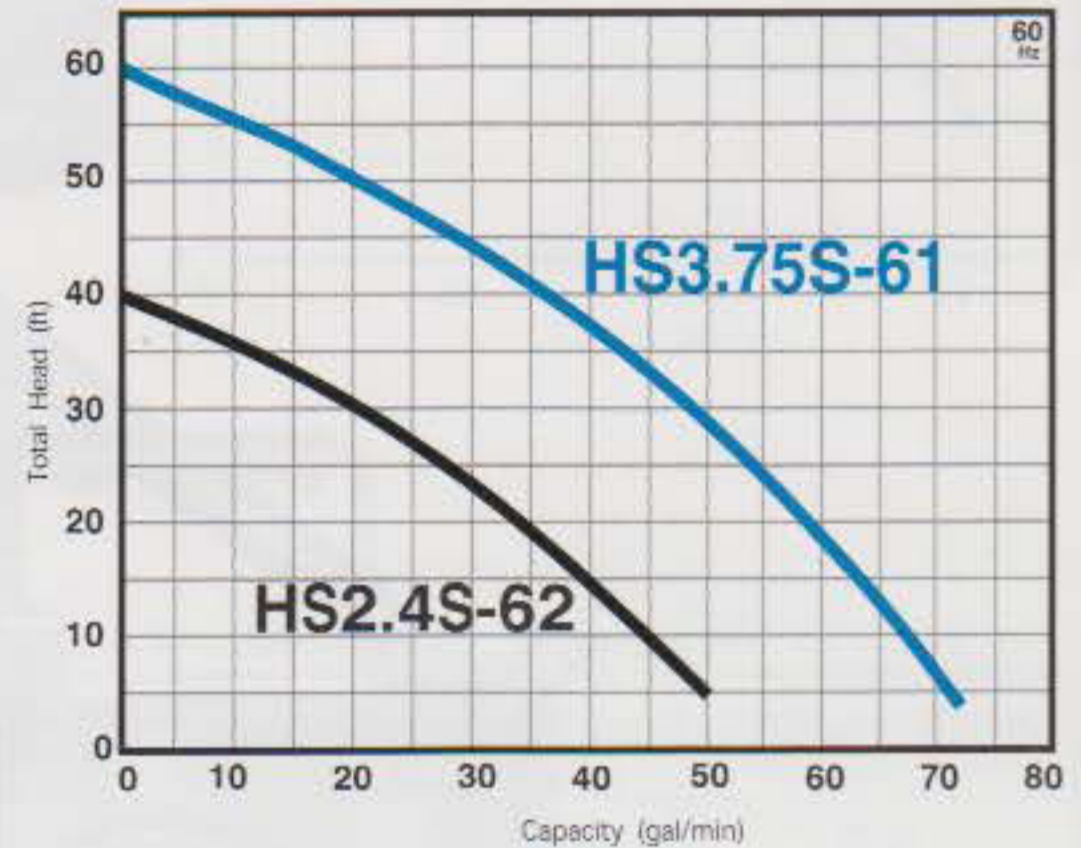
Durable trash pumps in two sizes—a 1HP 3-inch discharge and a 1/2HP 2-inch discharge. Both designed to pump sand, solids and debris with minimal wear and clogging.

### HS Features

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

### Optional Accessories

- Vertical Discharge Coupling.
- 2-inch NPT coupling available for HS3.75S-61.



Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Motor Output (hp)	Dimensions (inch)		Continuous Running Water Level (inch)
					Diameter	Height	
HS2.4S-62	2	25	20	1/2	10	13	3 1/2
HS3.75S-61	3	42	32	1	12 1/2	15 1/4	3 1/2

## HSZ AUTOMATIC TRASH PUMP

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

### HSZ Features

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

### Optional Accessories

- Vertical Discharge Coupling.
- 2-inch NPT coupling available for HSZ3.75S-61.

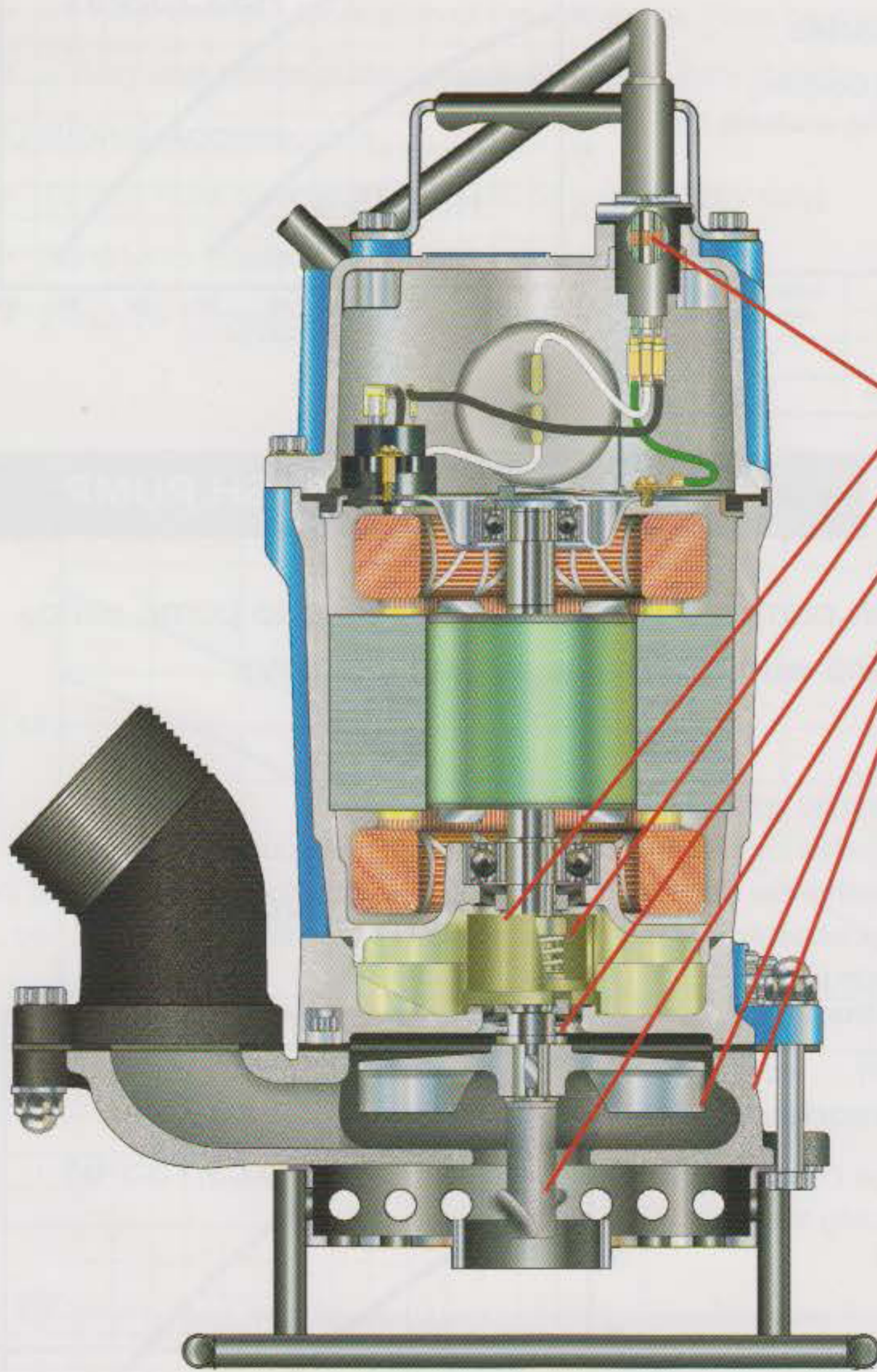


Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Motor Output (hp)	Dimensions (inch)		Continuous Running Water Level (inch)
					Diameter	Height	
HSZ2.4S-62	2	25	20	1/2	10	13	3 1/2
HSZ3.75S-61	3	42	32	1	12 1/2	15 1/4	3 1/2

# Electric Submersible Pumps

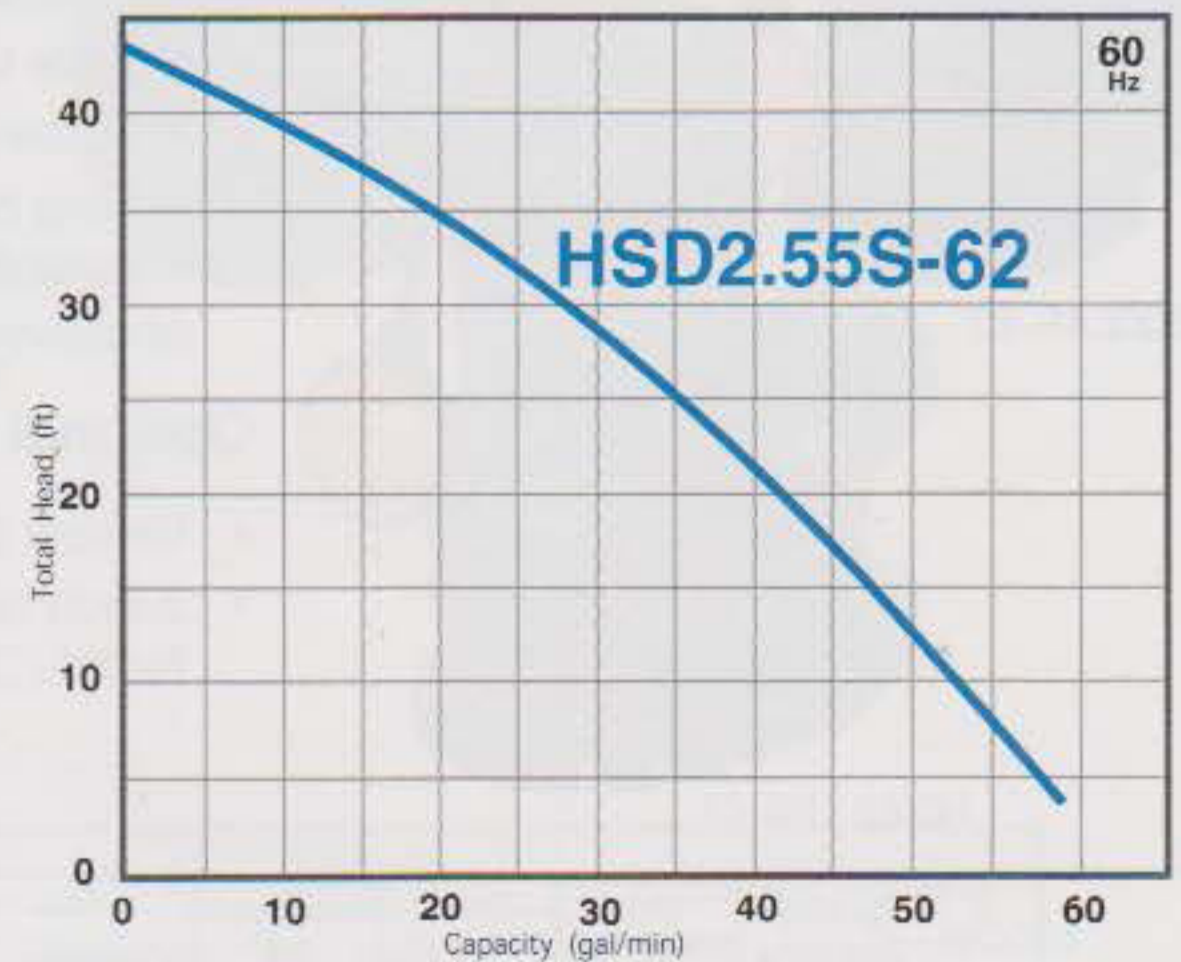
## HSD SERIES SAND PUMP

Pump sand, solids and debris with minimal wear and clogging.



### HSD Series Features

- Complete special 2 years warranty.
- Anti-wicking block prevents water incursion.
- Oil Lifter extends seal life by ten times.
- Double Inside Mechanical Seal with silicon carbide faces provides the longest 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-62.
- Easy pump end disassembly by removing only 3 nuts.



Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
HSD2.55S-62	2	33	16	6 3/8	15 3/8	4 1/8

## LSR GROUND DRAINAGE PUMP

Pump holds suction for drainage to 0.2 inch water level.

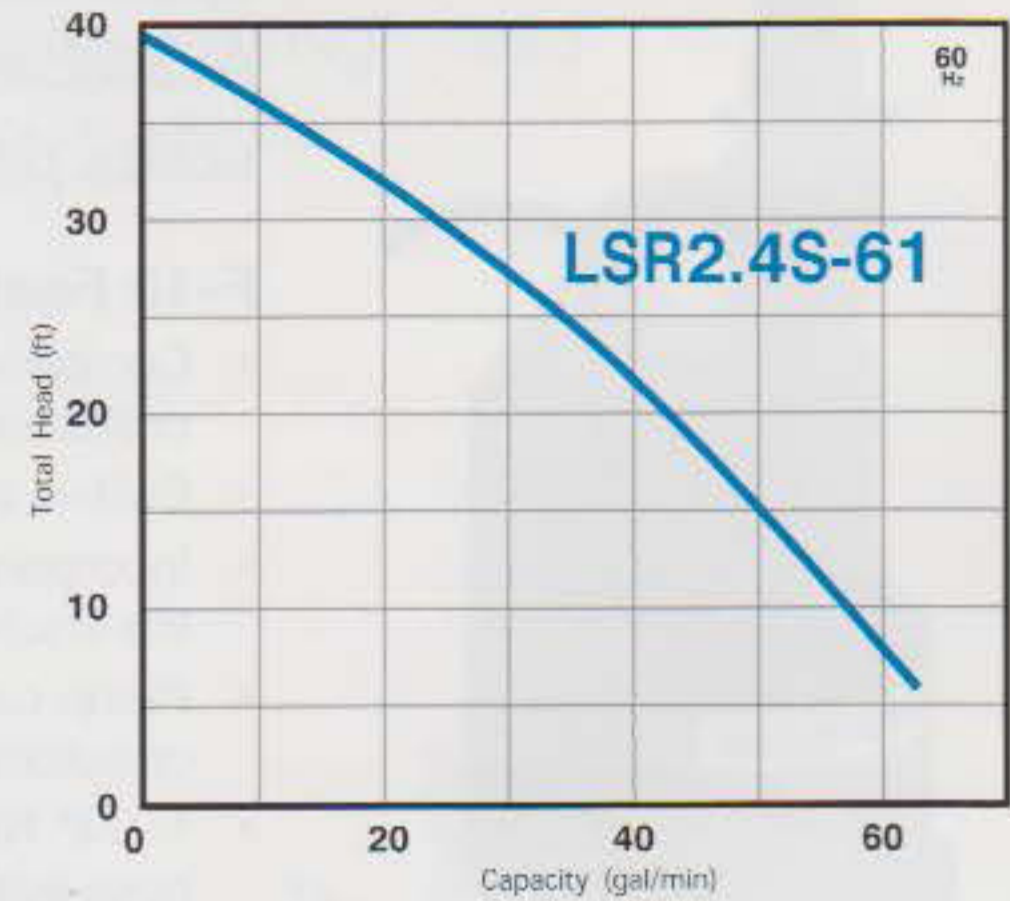


### LSR2.4S-61 Features

- Urethane, Semi Vortex Impeller and Wear Plates for maximum durability and maintaining pump performance.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)
- 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 Services to UL and CSA standards for submersible construction pumps.

Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
LSR2.4S-61	2	29	32	8 1/4	11 15/16	0.2

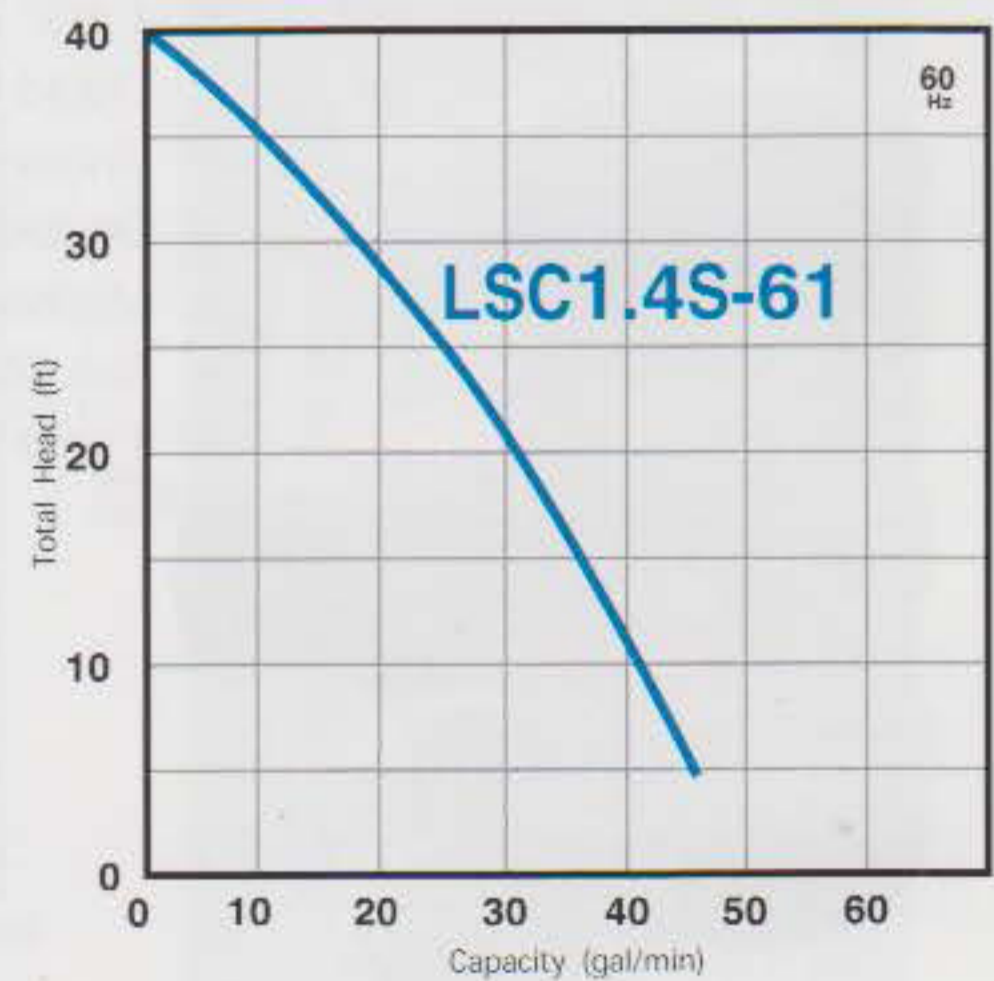
## LSC GROUND DRAINAGE PUMP

Original residue dewatering pump; able to pump down to the floor. Even the smallest puddle can be pumped dry. Complete drainage of flat surfaces where a sump is not available.



### LSC1.4S-61 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.
- Double Inside Mechanical Seal With SiC faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces. (Patent Pending)
- V-Ring Seal design protects mechanical seal from abrasive particles.



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

Model	Discharge Bore (inch)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
				Diameter	Height	
LSC1.4S-61	3/4	34	32	7 11/16	12 7/16	0.04

# Electric Submersible Pumps

UTILITY PUMP

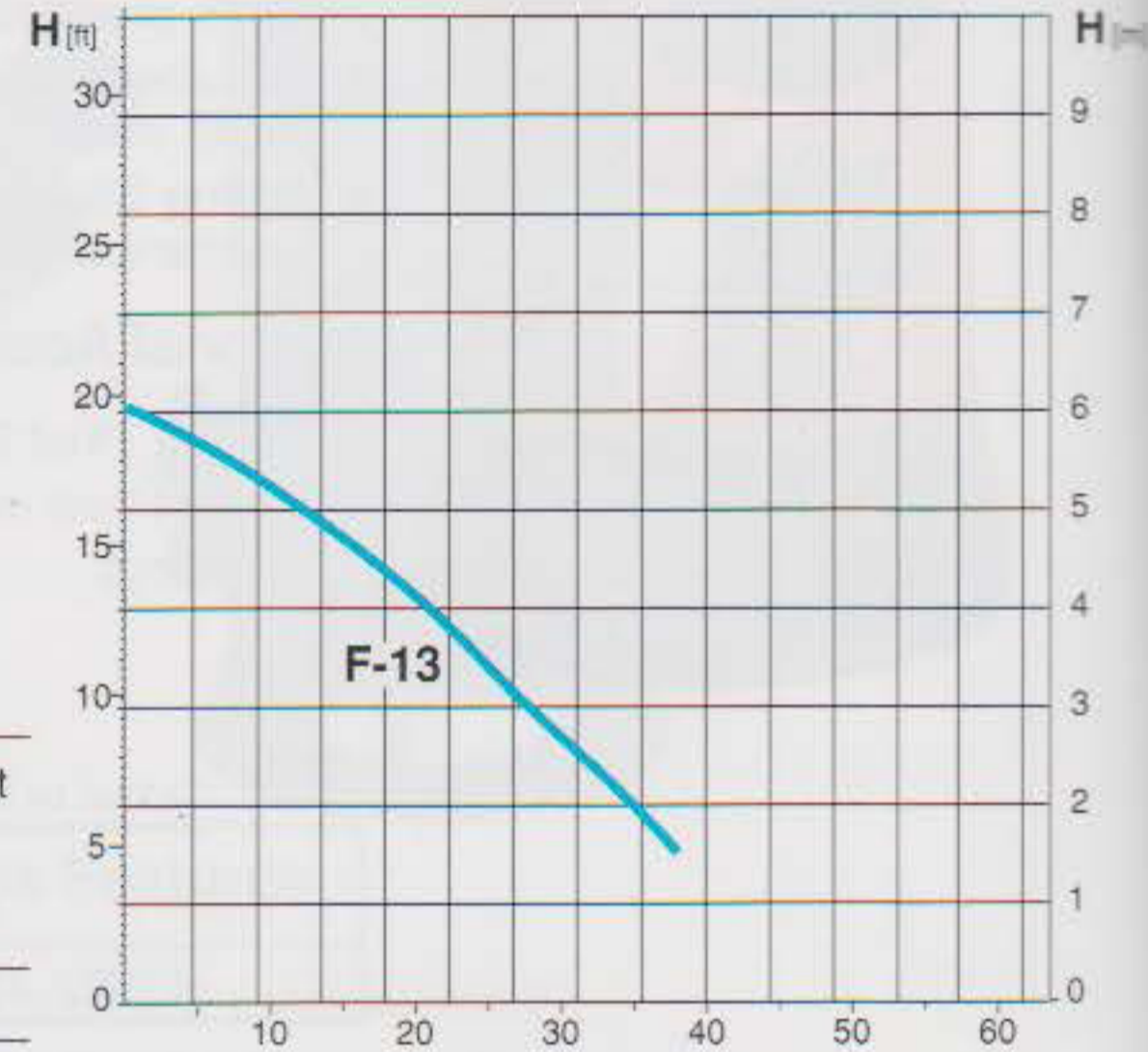
## F-13 UTILITY PUMP



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" solids passage capability.

### 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.



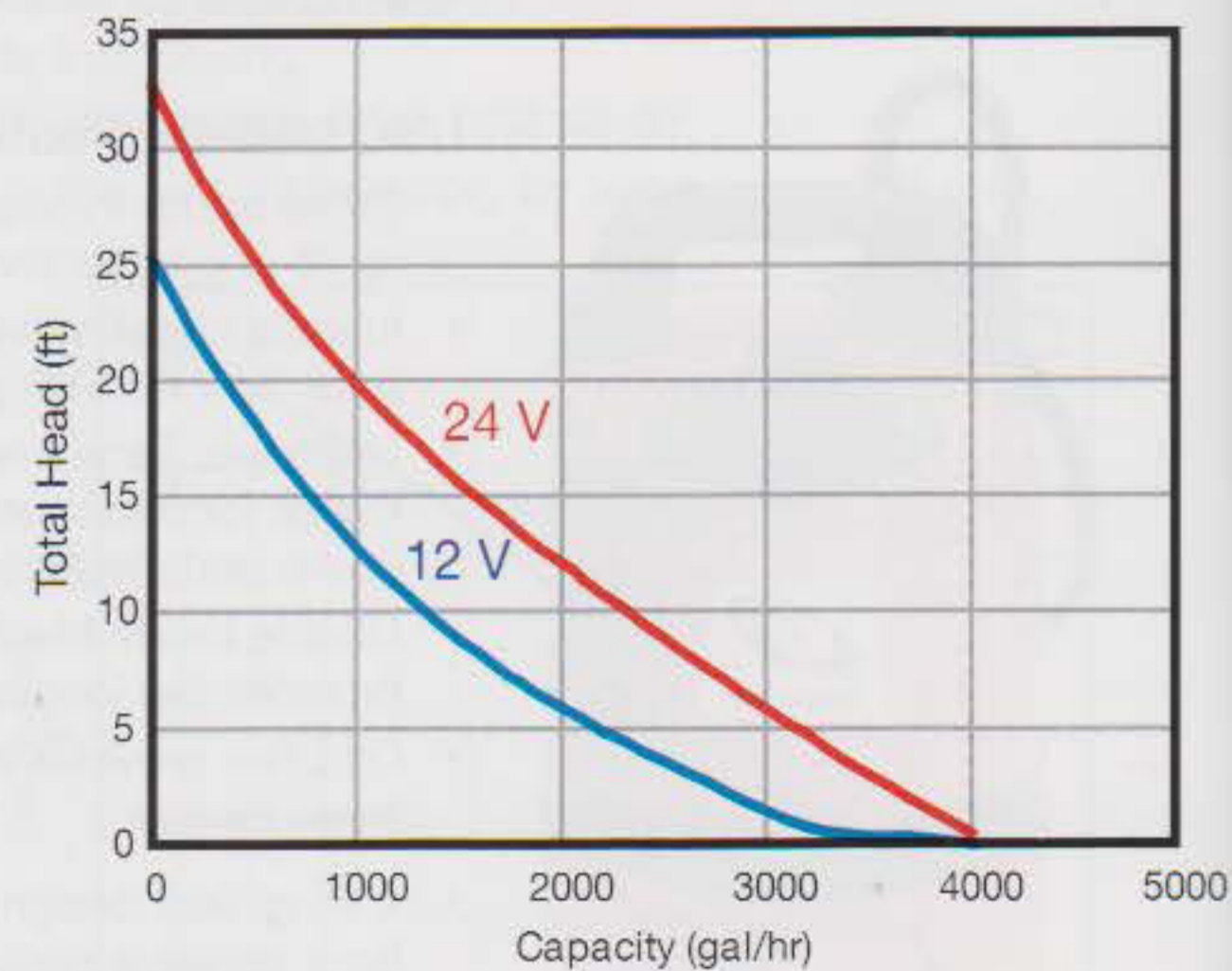
Technical Data	Discharge connection Internal-thread	Nominal HP	RPM	Rated current at 115V A	Cable ft	Weight lb
F-13	3/4"	1/4"	3450	4.2	10	6.6

## 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



Technical Data	Body	Discharge Parts & Size (in.)	Impeller	Shaft Seal	Wire	Voltage (V)	Cable (ft)	Weight (lbs.)
L4000	High Impact ABS Thermo-Plastic	Polypropylene 1 1/2" & 2"	Glass/Nylon Composite	Mechanical (Carbon/Ceramic)	14 Gauge Copper Stand Tin Coated	12 & 24	6	5.40

### Fits in an 8 inch pipe!

Tsurumi introduces an ultra-slim pump with very high head that fits inside an 8 inch pipe. (10 inch pipe for LH25.5W-60)

Ideal for deep-well pre-dewatering.

#### LH/LHW Slimline Features

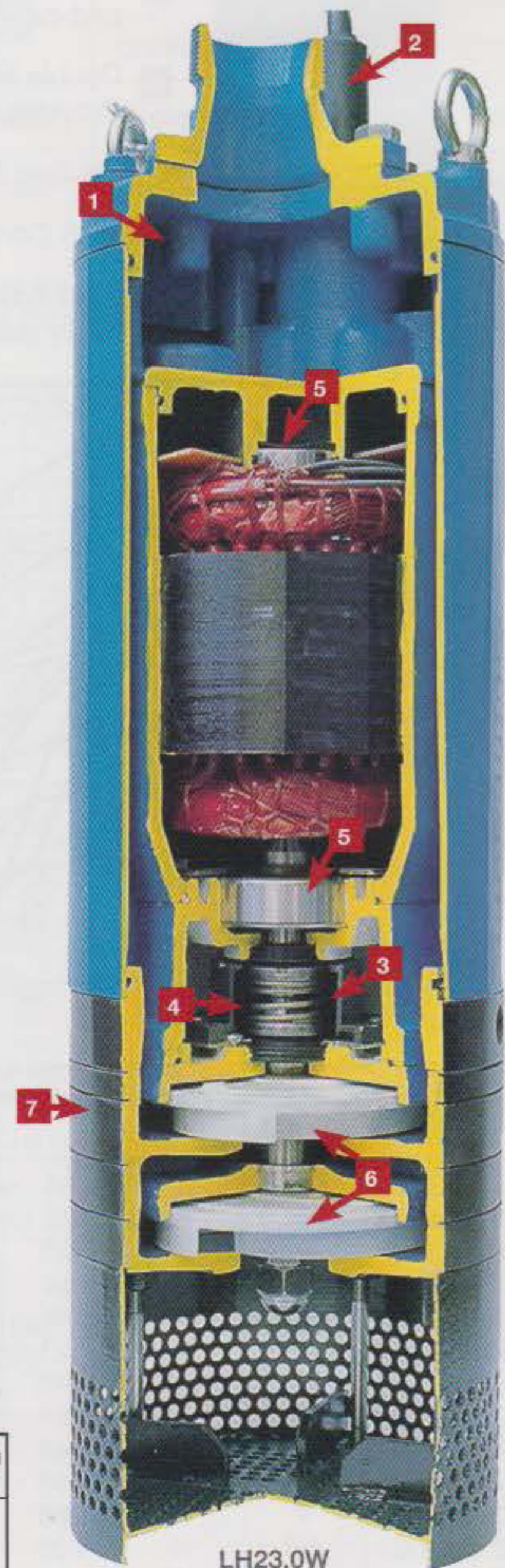
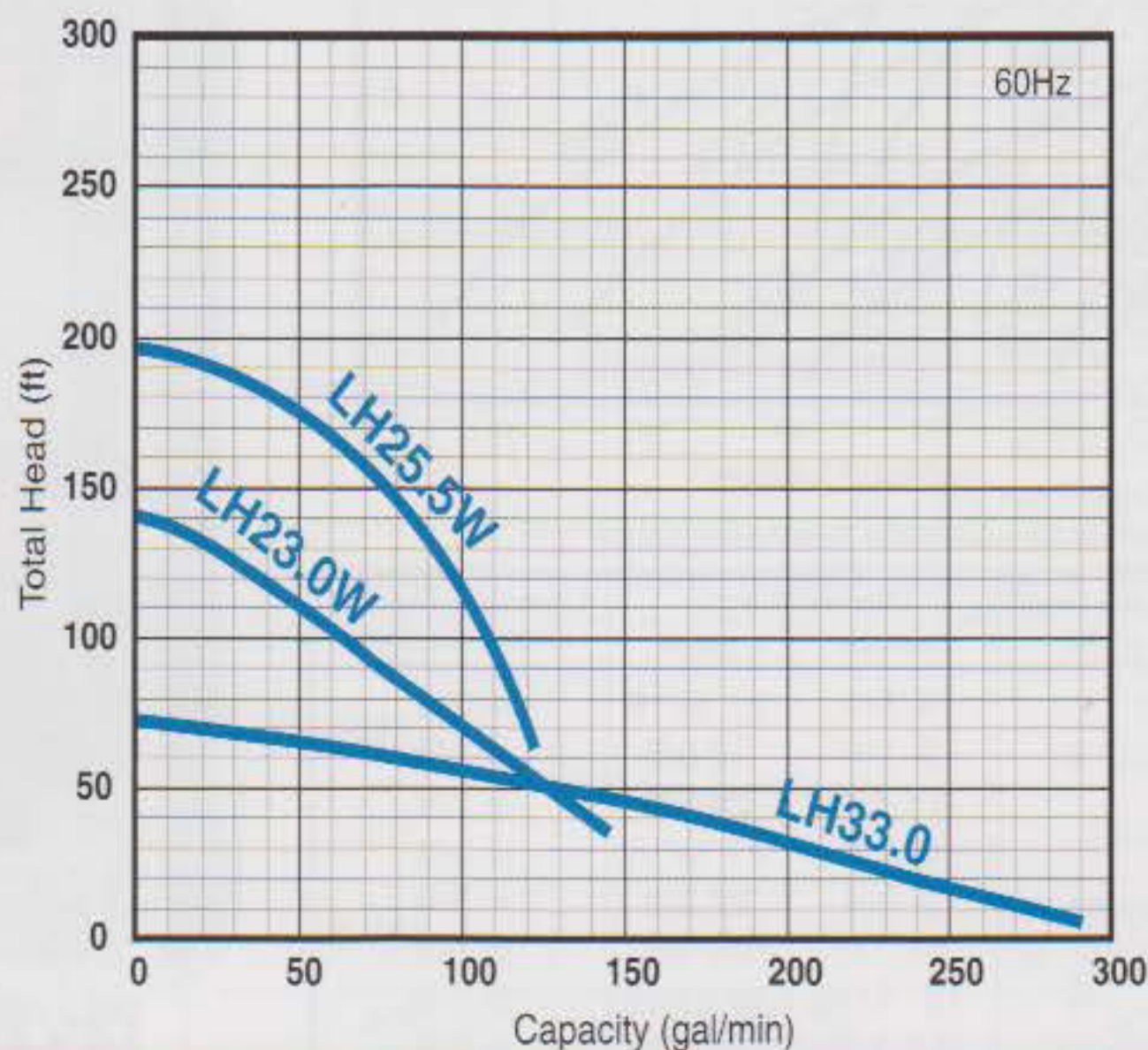
- 1** Circle Thermal Motor Protector: Protects against, overheating over amperage & run-dry.
- 2** Anti-Wicking Block: Prevents water incursion due to capillary wicking, should the power cable be damaged or the end submerged.
- 3** Oil Lifter: Lubrication of the seal faces down to 1/3 of normal oil level and extends seal life by ten times—uses no additional power.
- 4** Double Inside Mechanical Seal with Silicon Carbide Faces: Provides the longest 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 by abrasive particles.
- 7** Ductile Iron Casing: Resists wear and reduction of performance due to abrasive particles.



LH23.0W-60



LH33.0-60



LH23.0W

Model	Discharge Bore (inch)	Motor Output(HP)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
					Diameter	Height	
LH23.0W-60	2	4	101	50	7 5/16	24 13/16	7 7/8
LH33.0-60	3	4	90	50	7 5/16	25 3/8	5 7/8
LH25.5W-60	2	7.5	176	50	9 5/8	29 1/2	6 3/4

# Electric Submersible Pumps - Three Phase

## KTZ THREE-PHASE DEWATERING PUMPS

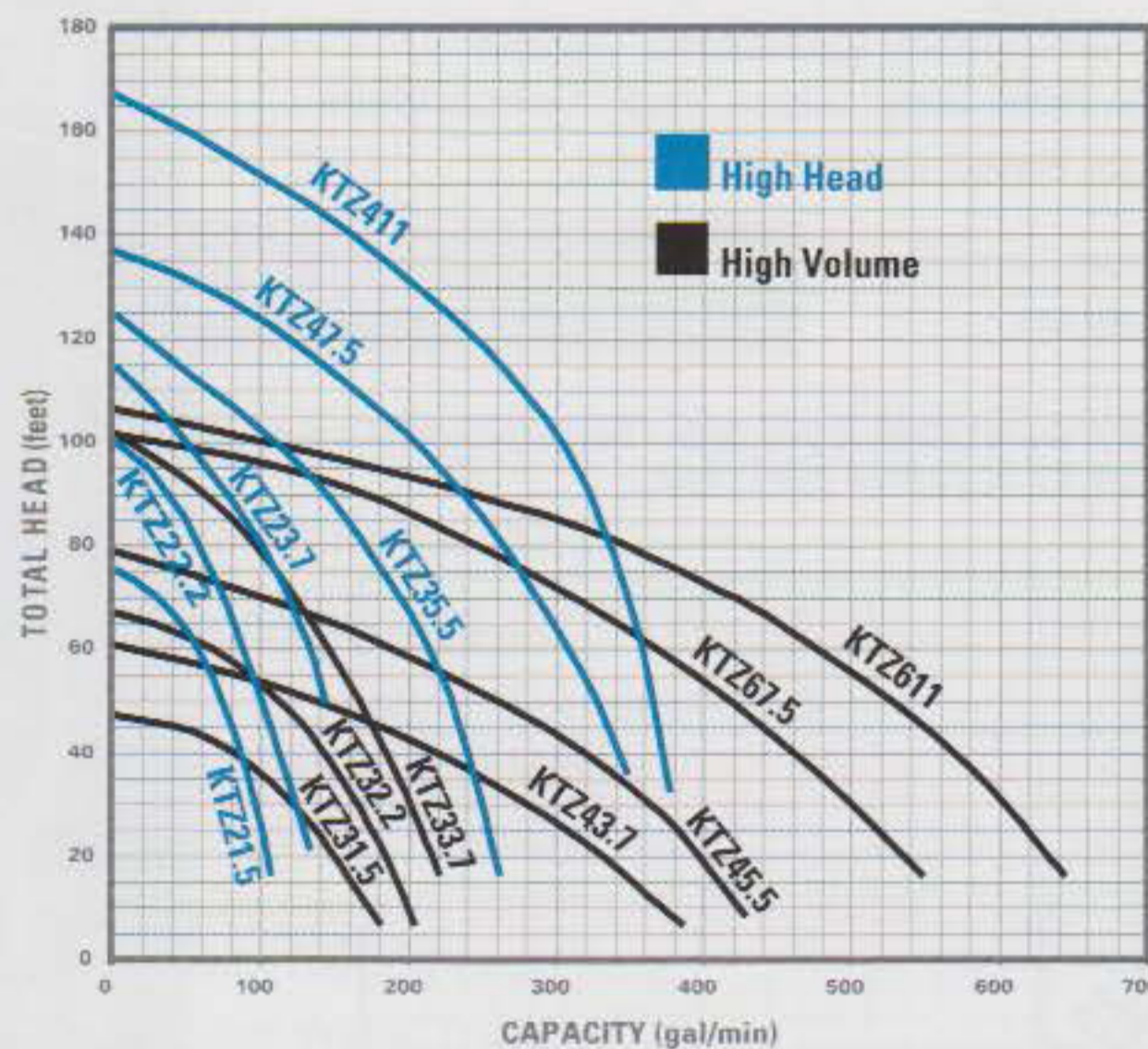
Designed to withstand the most demanding conditions found in the construction aggregate and mining markets.

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.



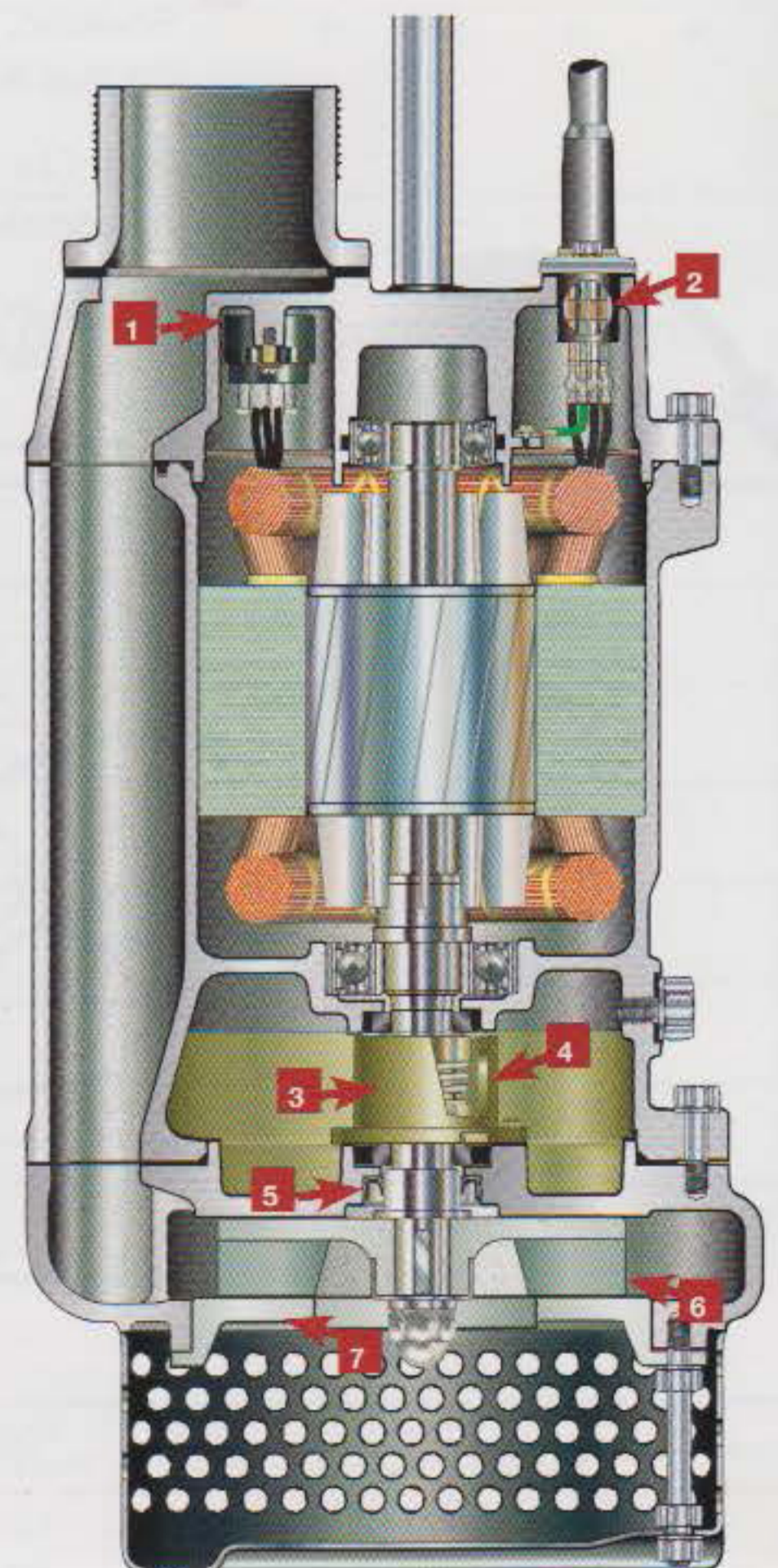
### KTZ Series Features

- 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** Double Inside Mechanical Seal with Silicon Carbide Faces: Provides the longest 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 Services to UL and CSA standards for submersible construction pumps.

Model	Discharge Bore (inch)	Motor Output (HP)	Ship Weight (lb.)	Cable Length (ft.)	Dimensions (inch)		Continuous Running Water Level (inch)
					Diameter	Height	
KTZ 21.5-61	2	2	64	50	9 1/4	21 9/16	4 3/4
KTZ 22.2-61	2	3	70		9 1/4	22 3/8	4 3/4
KTZ 23.7-62	2	5	121		11 1/8	24 5/8	5 7/8
KTZ 31.5-61	3	2	64		9 1/4	21 9/16	4 3/4
KTZ 32.2-61	3	3	70		9 1/4	22 3/8	4 3/4
KTZ 33.7-62	3	5	121		11 1/8	24 5/8	5 7/8
KTZ 35.5-61	3	7.5	145		12 1/16	25 11/16	5 7/8
KTZ 43.7-62	4	5	121		11 1/8	24 5/8	5 7/8
KTZ 45.5-61	4	7.5	145		12 1/16	25 11/16	5 7/8
KTZ 47.5-61	4	10	205		13	26	7 1/2
KTZ 411-61	4	15	286		14 11/16	28 11/16	7 1/2
KTZ 67.5-61	4/6	10	205		13	26	7 1/2
KTZ 611-61	4/6	15	286		14 11/16	28 11/16	7 1/2



## SINGLE PHASE: ELECTRIC SUBMERSIBLE SPECIFICATIONS



	<b>LB480-62</b>	<b>LB480A-62</b>	<b>LB3-750</b>	<b>LB-800</b>	<b>LB-1500</b>	
	Water Resistant	Automatic Operation	High Head	Slimline Pump	Slimline Pump	
<b>FLUID</b>	Max. Capacity (GPM)	62.4	62.4	73	111	
	Max. Head (ft)	39.5	39.5	60	69	
	Solid Diameter (inches)	1/4	1/4	1/4	1/4	5/8
	Impeller Type	Semi-Vortex	Semi-Vortex	Semi-Open	Semi-Vortex	Semi-Open
	Impeller Material	Urethane Rubber	Urethane Rubber	Ductile Iron Casting	Urethane Rubber	High Chrome
	Casing Material	Etylene Propylene Rubber	Etylene Propylene Rubber	Grey Iron Casting	Natural Rubber	Natural Rubber
	Wear Plate Material	Urethane Rubber	Urethane Rubber	Stainless Steel	Natural 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)	6.1	6.1	7.1	5.2	12.5	
Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	Lip Seal	V-Ring & Oil Lifter	V-Ring & Oil Lifter	
Discharge Connection	2" NPT Coupling	2" NPT Coupling	2" NPT Coupling	2" NPT Coupling	2" NPT Coupling	
<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	110V or 220 V	110V or 220V	110V or 220V
	Amperage - Rated Current	6.1	6.1	11.5 - 110V 6.5 - 220V	10.1 - 110V 5.3 - 220V	27.1 - 110V 13.7 - 220V
	Amperage - Starting Current	12.5	12.5	43.0 - 110V 25.5 - 220V	40.4 - 110V 21.2 - 220V	108 - 110V 55 - 220V
	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	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector
	Plug Configuration (Nema)	5-15P	5-15P	5-15P(110V), No Plug (220V)	5-15P(110V) No Plug (220V)	No Plug
	Cable - # of Conductors x AWG	3C x 10 AWG	3C x 10 AWG	3C x 14 AWG	3C x 14 AWG	3C x 12 AWG(110V) 3C x 14 AWG(220V)
	Std. Cable Length (ft)	32	32	50	50	32
	Max. Cable Length (ft)	62	62	52(110V), 187(220V)	55(110V), 190(220V)	62
Min. Generator Capacity (watts)	1300	1300	3300	3300	6000	
Optional Float Switch	TS-301	n/a	TS-302(110V), TS-202(220V)	TS-302(110V), TS-202(220V)	TS-303(220V operation only)	
<b>DIMENSION</b>	Max. Diameter (inches)	7 3/8	8 3/4	7 5/16	7 1/2	7 3/8
	Max. Height (inches)	11 3/16	11 3/16	16 1/4	13 7/16	23 5/8
	Continuous Running Water Level (in.)	2	4 1/2	3 1/8	2	3 5/32
	Pump Weight (lbs.)	21	22	35	30	85
	Shipping Weight (lbs.)	28	30	43	30	85

# SINGLE PHASE: ELECTRIC SUBMERSIBLE SPECIFICATIONS



	<b>HS2.4S-62</b> Sand/Solids Trash Pump	<b>HS3.75S-61</b> Sand/Solids Trash Pump	<b>HSZ2.4S-62</b> Automatic Trash Pump	<b>HSZ3.752-61</b> Automatic Trash Pump	<b>HSD2.55S-61</b> Durable Sand Pump	
<b>FLUID</b>	Max. Capacity (GPM)	53	74	53	74	
	Max. Head (ft)	39	59	39	59	
	Solid Diameter (inches)	3/8	1/4	3/8	1/4	
<b>PUMP</b>	Impeller Type	Semi-Vortex	Semi-Vortex	Semi-Vortex	Semi-Vortex	
	Impeller Material	Urethane Rubber	Urethane Rubber	Urethane Rubber	Urethane Rubber	
	Casing Material	Grey Iron Casting	Grey Iron Casting	Grey Iron Casting	Grey Iron Casting	
	Wear Plate Material	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	
<b>MOTOR</b>	Motor Output (hp)	1/2 hp	1 hp	1/2 hp	1 hp	
	Phase	Single	Single	Single	Single	
	Voltage (V)	110V or 220V	110V or 220V	110V or 220V	110V or 220V	
	Amperage - Rated Current	5.4	10 / 4.8	5.4	10 / 4.8	
	Amperage - Starting Current	12.5	37 / 19	12.5	37 / 19	
	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	B	B	B	B	B
	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
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	20	
Max. Cable Length (ft)	70	70	70	70	70	
Min. Generator Capacity (watts)	1300	1300	1300	1300	1300	
Optional Float Switch	TS-301	TS-301	N/A	N/A	TS-301	
<b>DIMENSION</b>	Max. Diameter (inches)	10 1/16	12 7/16	10 1/16	12 7/16	
	Max. Height (inches)	2 15/16	15 1/4	2 15/16	15 1/4	
	Continuous Running Water Level (in.)	3 1/2	3 1/2	3 1/2	3 1/2	
	Pump Weight (lbs.)	25	42	25	42	
	Shipping Weight (lbs.)	30	47	30	47	





	<b>LSR2.4S-61</b> Ground Level	<b>LSC1.4S-61</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 Head	
<b>FLUID PUMP</b>	Max. Capacity (GPM)	62.4	45	111	130	198
	Max. Head (ft)	39.5	39.5	69	85	64
	Solid Diameter (inches)	1/4	1/4	1/3	1/3	2
	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	
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	
<b>MOTOR</b>	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 or 220V	220V	220V
	Amperage - Rated Current	6.1	6.1	23.0(110V), 11.5(220V)	13.0	12.5
	Amperage - Starting Current	12.5	12.5	136(110V), 68(220V)	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	#12/3	#14/3	#14/3
	Std. Cable Length (ft)	32	32	32	32	32
	Max. Cable Length (ft)	62	62	46(110V), 185(220V)	94	94
Min. Generator Capacity (watts)	1300	1300	6000	8000	8000	
Optional Float Switch	TS-301	TS-301	TS-303 (220V Operation only)			
<b>DIMENSION</b>	Max. Diameter (inches)	8 1/4	7 11/16	9 7/16	9 7/16	8 3/4
	Max. Height (inches)	11 15/16	12 7/16	24 1/2	24 1/2	27 1/2
	Continuous Running Water Level (in.)	0.20	0.04	3 1/4	3 1/4	4 3/4
	Pump Weight (lbs.)	23	26	63.5	63.5	79
	Shipping Weight (lbs.)	29	34	81	81	98

# THREE PHASE: ELECTRIC SUBMERSIBLE SPECIFICATIONS



	LBT-800	LBT-1500	LH23.0W	LH33.0	LH25.5W	
	Slimline Pump	Slimline Pump	Slim Design High Head Pump, High Pressure up to 328ft			
PUMP FLUID	Max. Capacity (GPM)	73	145	290	122	
	Max. Head (ft)	59	140	73	197	
	Solid Diameter (inches)	1/4	5/8	1/4	1/4	1/4
	Impeller Type	Semi-Vortex	Semi-Open	Closed	Closed	Closed
	Impeller Material	Urethane Rubber	Urethane Rubber	Hi-Chrome Cast Iron	Hi-Chrome Cast Iron	Hi-Chrome Cast Iron
	Casing Material	Natural Rubber	Natural Rubber	Ductile Cast Iron	Ductile Cast Iron	Ductile Cast Iron
	Wear Plate Material	Natural Rubber	Natural Rubber	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.		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	24.3
Seal Protection	V-Ring & Oil Lifter	V-Ring & Oil Lifter	Oil Lifter	Oil Lifter	Oil Lifter	
Discharge Connection	2" NPT Coupling	2" or 3" NPT Coupling	2" NPT Coupling	3" NPT Coupling	2" NPT Coupling	
MOTOR	Motor Output (hp)	1 hp	2 hp	4 hp	4 hp	7.5 hp
	Phase	Three	Three	Three	Three	Three
	Voltage (V)	230/460/575	230/460/575	230/460/575	230/460/575	230/460/575
	Amperage - Rated Current	3.2(230V) / 1.6(460V) / 1.2(575V)	8.0(230V) / 4.0(460V) / 3.2(575V)	11.0 (230V) / 6.0(460V) / 4.7(575V)	11.0 (230V) / 6.0(460V) / 4.7(575V)	19.2(230V) / 9.6(460V) / 7.7(575V)
	Amperage - Starting Current	19.4(230V) / 9.7(460V) / 7.0(575V)	42(230V) / 21(460V) / 14(575V)	77.0 (230V) / 48.6(460V) / 35.3(575V)	77.0 (230V) / 48.6(460V) / 35.3(575V)	138(230V) / 57(460V) / 47(575V)
	Type	Continuous duty, Air filled, 3600RPM, 60Hz				
	Bearings	Double Sealed, Permanently Lubricated				
	Insulation Class	E	E	F	F	B
	Motor Protection (Built-In)	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector	Circle Thermal Protector
	Plug Configuration (Nema)	No Plug	No Plug	No Plug	No Plug	No Plug
	Cable - # of Conductors x AWG	4C x 14 AWG	4C x 16 AWG	#14/3	#14/4	#12/4
	Std. Cable Length (ft)	32	32	65	65	50
	Max. Cable Length (ft)	50	50	220 (230V) / 813 (460V) / 302 (575V)	220 (230V) / 813 (460V) / 302 (575V)	110 (230V) / 540 (460V) / 560 (575V)
	Min. Generator Capacity (watts)	3300	6000	13000	13000	30000
	Optional Float Switch	Control Panel	TS-303	Ask Factory		
DIMENSION	Max. Diameter (inches)	7 9/16	7 3/8	7 5/16	7 5/16	9 5/8
	Max. Height (inches)	13 7/16	23 5/8	24 13/16	25 3/8	29 1/2
	Continuous Running Water Level (in.)	2	3 5/32	7 7/8	5 7/8	6 3/4
	Pump Weight (lbs.)	28	85	101	93	176
	Shipping Weight (lbs.)	35	85	121	113	196



FLUID PUMP

MOTOR

DIMENSION

	KTZ21.5 -61	KTZ22.2 -61	KTZ23.7 -62	KTZ31.5 -61	KTZ32.2 -61	KTZ33.7 -62	KTZ35.5 -61	KTZ43.7 -62	KTZ45.5 -61	KTZ47.5 -61	KTZ411 -61	KTZ67.5 -61	KTZ611 -61
Wear Resistant Pumps													
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)	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
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	4" / 6" NPT Coupling	4" / 6" NPT Coupling
Motor Output (hp)	2	3	5	2	3	5	7.5	5	7.5	10	15	10	15
Phase	Three												
Voltage (V)	230 / 460 / 575												
Amperage - Rated Current	6.0/3.0/2.3	9.0/4.6/3.5	13.0/6.5/5.3	6.0/3.0/2.3	9.0/4.6/3.5	13.0/6.5/5.3	19.0/9.5/7.3	13.0/6.5/5.3	19.0/9.5/7.3	25.0/12.5/9.7	36.0/18.0/14.3	25.0/12.5/9.7	36.0/18.0/14.3
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	E	E	E	E	E	E	E	E	E	E	E	E	E
Plug Configuration (Nema)	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	No Plug	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	50	50	50	50	50	50	50	50	50	50	50	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)
Min. Generator Capacity (watts)	8000	12000	18000	8000	12000	18000	27000	18000	27000	36000	53000	36000	53000
Optional Float Switch	n/a												
Max. 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
Max. Height (inches)	21 9/16	22 3/8	24 5/8	21 9/16	22 3/8	24 5/8	25 11/16	24 5/8	25 11/16	26	28 11/16	26	28 11/16
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.)	64	70	121	64	70	121	145	121	145	205	286	205	286
Shipping Weight (lbs.)	66	75	123	66	75	123	156	123	156	211	290	215	297

# TSURUMI PUMP

## Engine Powered Pumps

**TSURUMI Engine Powered Pumps** are constructed for maximum durability in a compact, easy handling design. Utilizing superior features and materials, Tsurumi provides an affordable, high value pump line designed to withstand your tough dewatering applications.

Heavy-duty Honda, Robin Subaru gas engine, or Robin Hatz diesel engine **delivers high power** from a compact, reliable design.

High chrome impeller, cast iron volute casing with stainless steel wear plate provides **increased durability and decreased maintenance** (Trash pumps only).

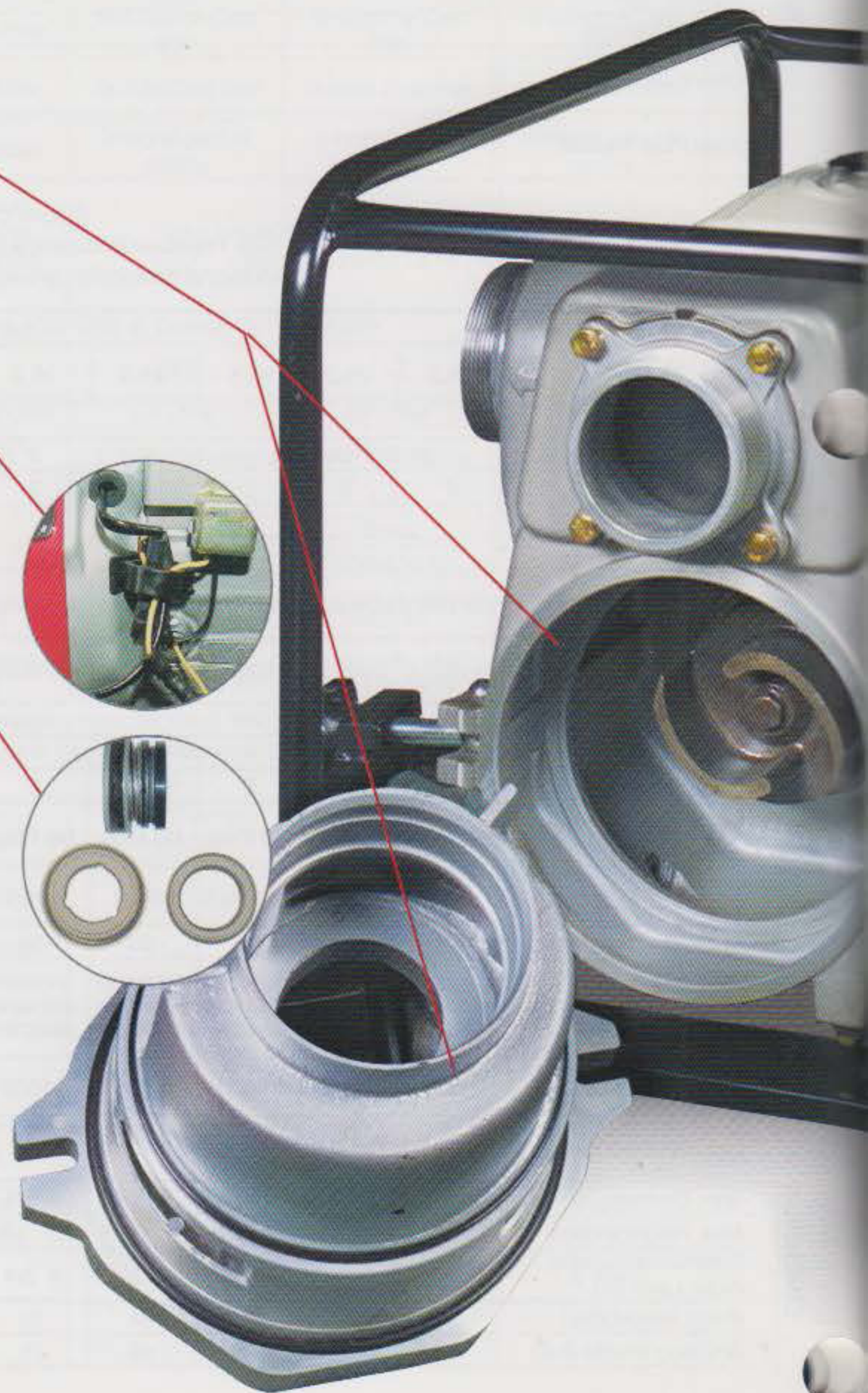
Oil Alert System **automatically shuts the engine down** if the oil level falls below the safe operating level.

(Not Yanmar Diesel Engine)

Silicon Carbide mechanical seal **provides the longest life in this class**. Silicon Carbide's high uniform hardness and high density makes it an extremely abrasion resistant material.

Rubber Vibration Isolators **insure safe and stable operation**, reduce vibration of structural parts and support the pump casing to reduce hose or pipe strain.

Durable Rolled-Steel frame provides for a safe, stable platform, **protects pump/engine during operation** and transport, and allows for easy handling.





## Tsurumi Engine Powered Pumps:

### Dewatering Pumps

	Model	Discharge Size
Honda (Gas)	TE2-25HA	1"
	TE2-50HA	2"
	TE2-80HA	3"
	TE2-100HA	4"
Robin Subaru (Gas)	TE2-50RX	2"
	TE2-80RX	3"
	TE2-100RX	4"
Robin Hatz (Diesel)	TE2-50RDB	2"
	TE2-80RDB	3"

### Trash Pumps

	Model	Discharge Size
Honda (Gas)	EPT3-50HA	2"
	EPT3-80HA	3"
	EPT3-100HA	4"
Robin Subaru (Gas)	EPT3-50RX	2"
	EPT3-80RX	3"
	EPT3-100RX	4"
Robin Hatz (Diesel)	EPT2-80RDB	3"
	EPT2-100RDB	4"
Deutz Trash Pump	EPT2-100DD	4"
	EPT2-150DD	6"
Yanmar Trash Pump	EPT3-150YD	6"

### Heavy-Duty Diaphragm Pumps

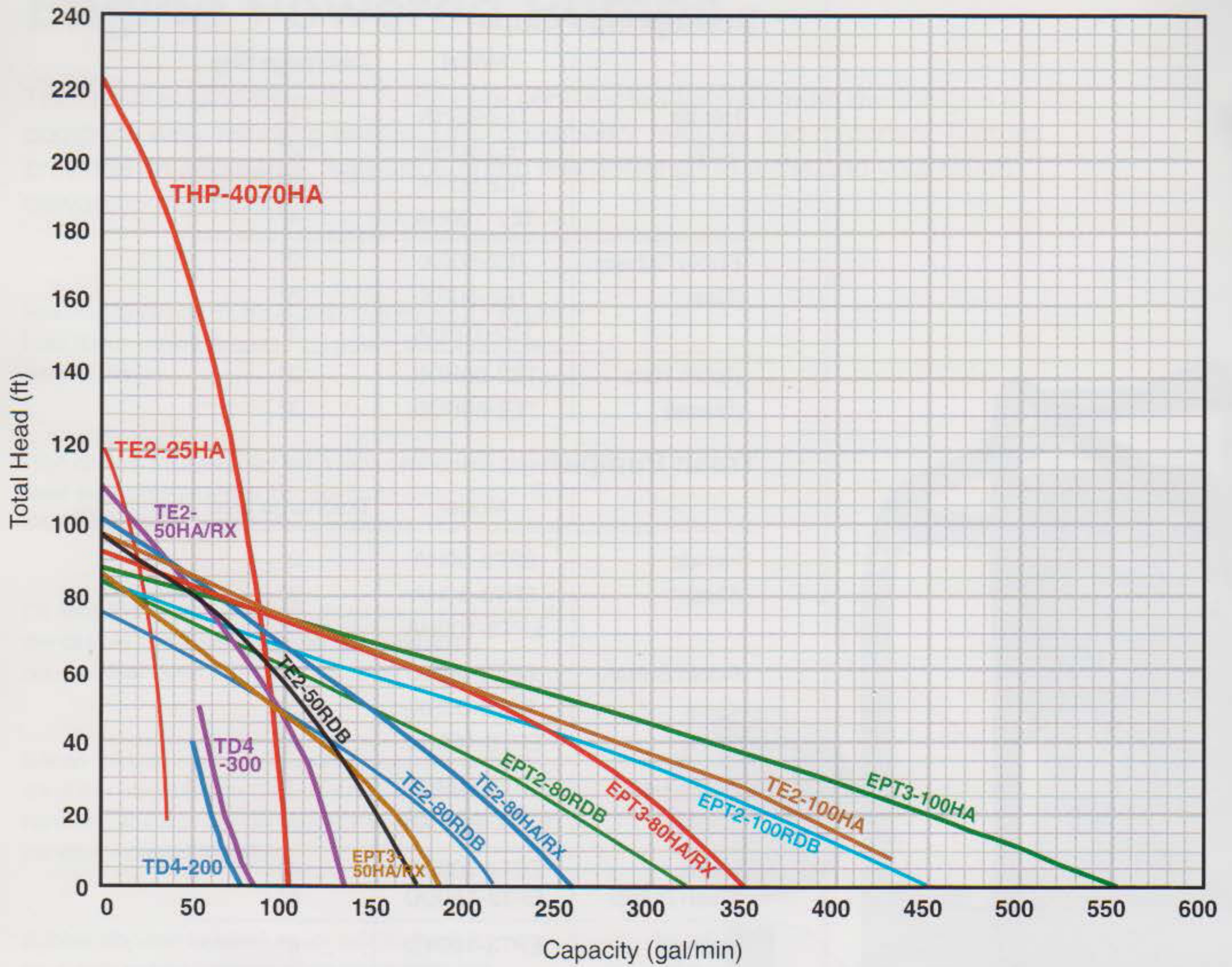
	Model	Discharge Size
Honda Diaphragm Pump	TD4-200	2"
	TD4-300	3"

### Heavy-Duty High Pressure Pump

	Model	Discharge Size
Honda High Pressure Pump	THP-4070HA	1.5"

# Engine Powered Pumps

## ENGINE POWERED PUMP CURVES



\* Please refer to Page 30 and 31 for heavy-duty trailer pumps performance curves: EPT2-100DD/150DD, and EPT3-150YD.



## Powerful, Lightweight Pumps

Powered by either heavy-duty **Honda GX gas engines**, the silently powerful **Robin Subaru EX engine**.

### TE2-HA Gas Engine Centrifugal Pumps *Powered by Honda*

- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides the longest life in this class.
- Cast Iron impeller and volute casing.
- Durable Rolled-Steel frame provides pump/engine with maximum protection, perfect ease of handling or transport, and safe operation.
- Both 2" and 3" models are light enough for UPS shipment.



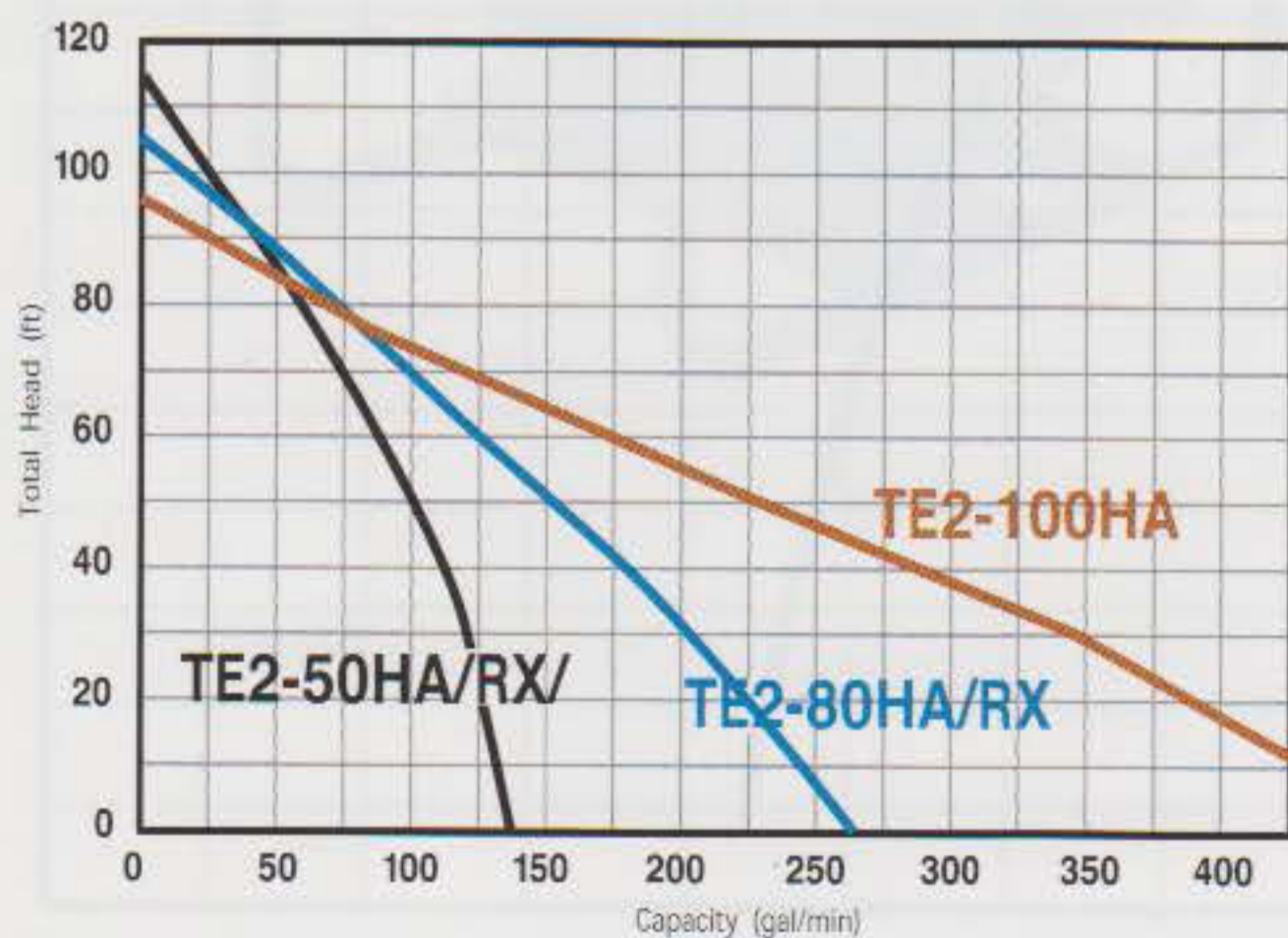
Honda TE2-80HA

### TE2-RX Gas Engine Centrifugal Pumps *Powered by Robin Subaru*

- Two inch economical high performance centrifugal engine pump.
- Extremely silent. EX Robin Engine is two dBA quieter than competitive models.
- Easy and reliable starting. 30-40% less pulling force than competitive models.
- Low emission level and high capacity Air Cleaner.
- Heavy Duty Chain Drive OHC System.



Robin Subaru TE2-80RX



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
TE2-50HA	2 NPT male	HONDA GX-120	4.0 / 3600	18 1/2 x 14 5/8 x 17 1/8	55
TE2-80HA	3 NPT male	HONDA GX-160	5.5 / 3600	20 1/2 x 16 1/2 x 18 7/8	64
TE2-100HA	4 NPT male	HONDA GX-240	8.0 / 3600	25 x 18 x 23 1/2	109
TE2-50RX	2 NPT male	Robin Subaru EX13	4.5 / 4000	18 1/2 x 14 5/8 x 17 1/8	55
TE2-80RX	3 NPT male	Robin Subaru EX17	6.0 / 4000	20 1/2 x 16 1/2 x 18 7/8	64

# Engine Powered Pumps

## TE2-25HA CENTRIFUGAL PUMPS

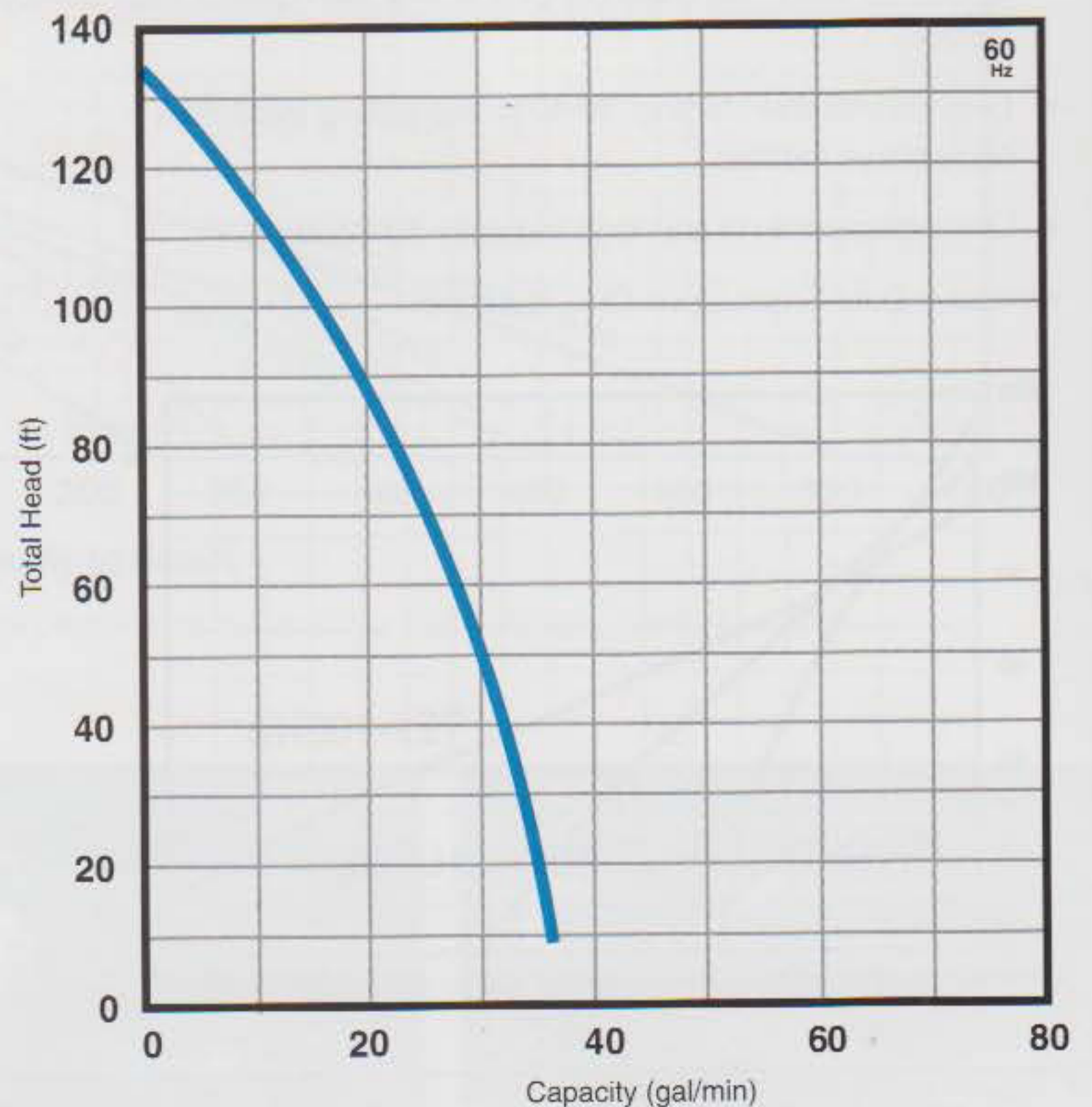
### Compact and Lightweight

TSURUMI PUMP Model TE2-25HA is ideal for general dewatering, irrigation and all-purpose cleaning and wash down applications. Easy starting and quiet running is assured with its four stroke Honda GX25 engine. Built to be lightweight yet durable.

#### TE2-25HA Centrifugal Pumps Powered by Honda

- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides the longest life in this class.
- Cast Iron impeller and volute casing.
- Durable Rolled-Steel handle for ease of handling.

TE2-25H SERIES



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
TE2-25HA	1" Dewatering	HONDA GX-25	1.1 / 2220	9 x 14 x 13	12

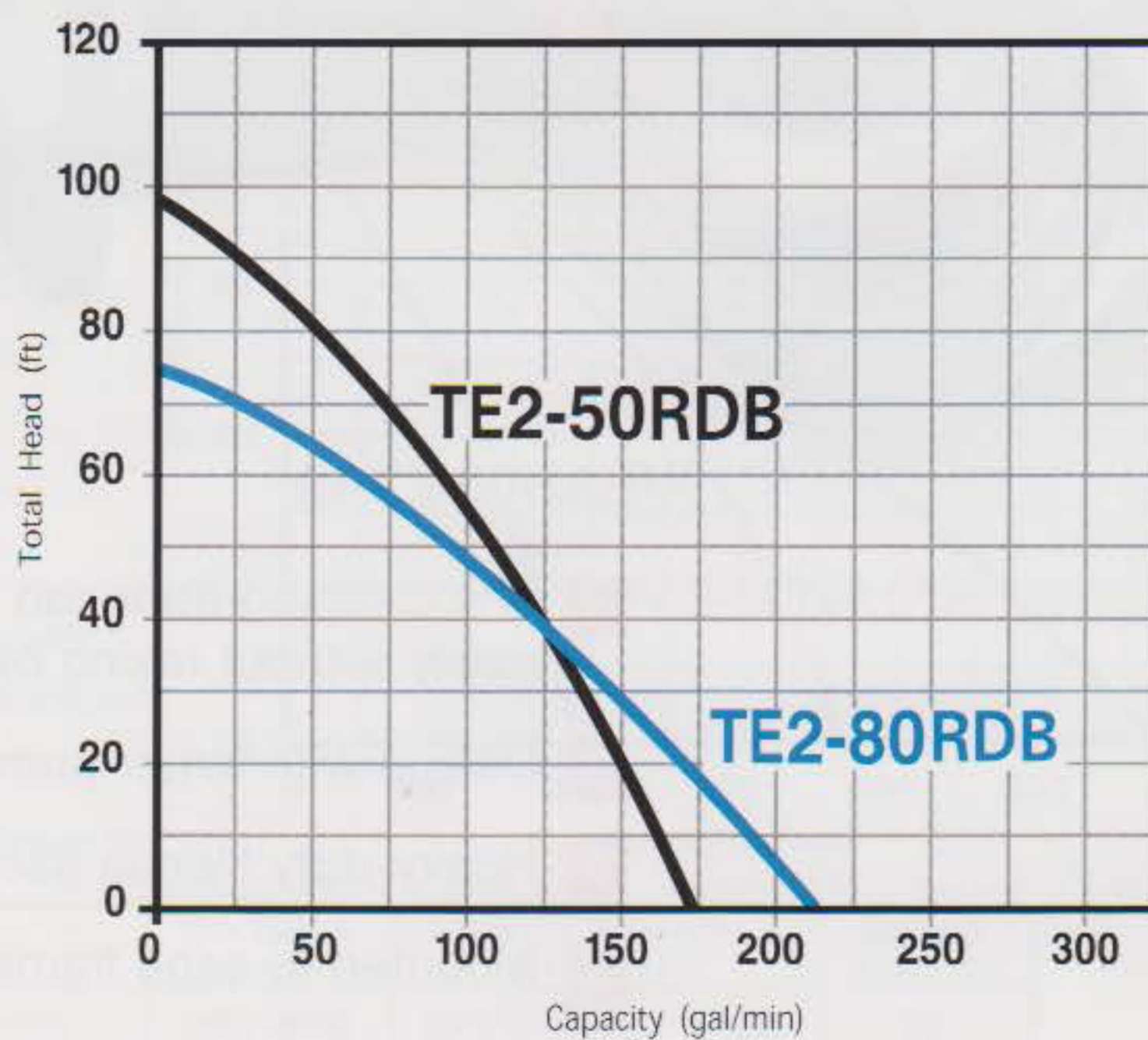


## NEW: TE2-RDB CENTRIFUGAL PUMPS

Lightweight dependable dewatering pumps powered by Robin Hatz diesel Engine.

### TE2-RDB Centrifugal Pumps Powered by Robin Hatz

- Heavy-duty Robin Hatz Diesel Engine
- Low emission level for cleaner environment
- Silicon carbide mechanical seals
- Cast iron volute casting
- Durable rolled-steel frame



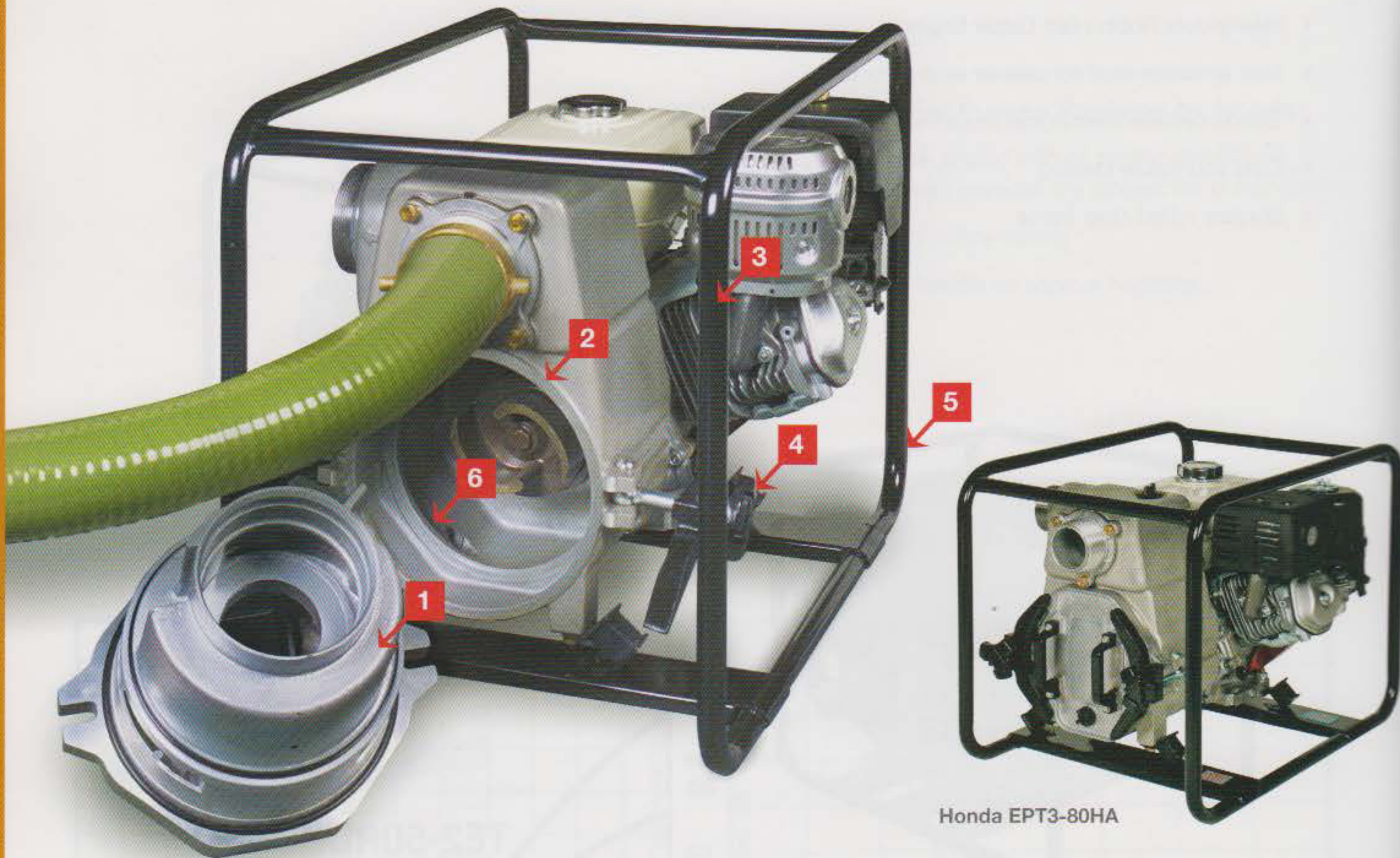
Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
TE2-50RDB	2 NPT male	Robin Hatz 1B20	4.9 / 10320	24 13/16 x 17 15/16 x 22 1/4	95.1
TE2-80RDB	3 NPT male	Robin Hatz 1B30	4.9 / 12720	24 13/16 x 17 15/16 x 22 1/4	97.3

# Engine Powered Pumps

## EPT3 SERIES GAS ENGINE TRASH PUMPS

EPT3 SERIES

### Powerful Trash Handling Pumps of Highest Quality

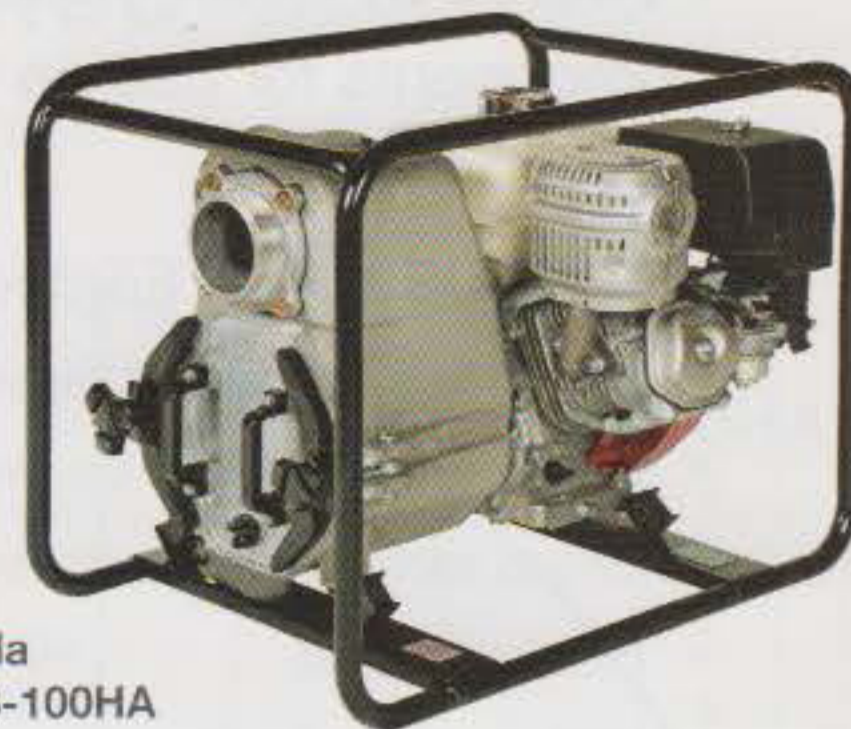


Honda EPT3-80HA

- 1** The cleaning door can be disassembled easily without taking off suction hose.
- 2** Design with larger pump casing.
- 3** Heavy-duty Honda gas engine.
- 4** Mounted to cage frame on Rubber Vibration Cushions.
- 5** Durable rolled-steel frame.
- 6** High Chrome impeller, cast Iron volute casing, stainless steel wear plate, and galvanized Steel hose couplings.

### EPT3-HA Gas Engine Trash Pumps Powered by Honda

- Heavy-duty Honda gas engine with oil sensor delivers high power from a compact, reliable design. Silicon Carbide mechanical seal provides the longest life in this class.
- High Chrome impeller, Cast Iron volute casing plus Stainless Steel wear plate promise increased durability and decreased maintenance.
- Pump/engine set mounted to cage frame on Rubber Vibration Cushions to buffer stress and wear.
- Durable Rolled-Steel frame provides pump/engine with maximum protection, perfect ease of handling or transport and safe operation.
- Galvanized Steel hose couplings promise longer thread life.
- Carrying Handle/Wheel Kit and Lifting Bail for easy transportation available with all trash pumps as an optional accessory.



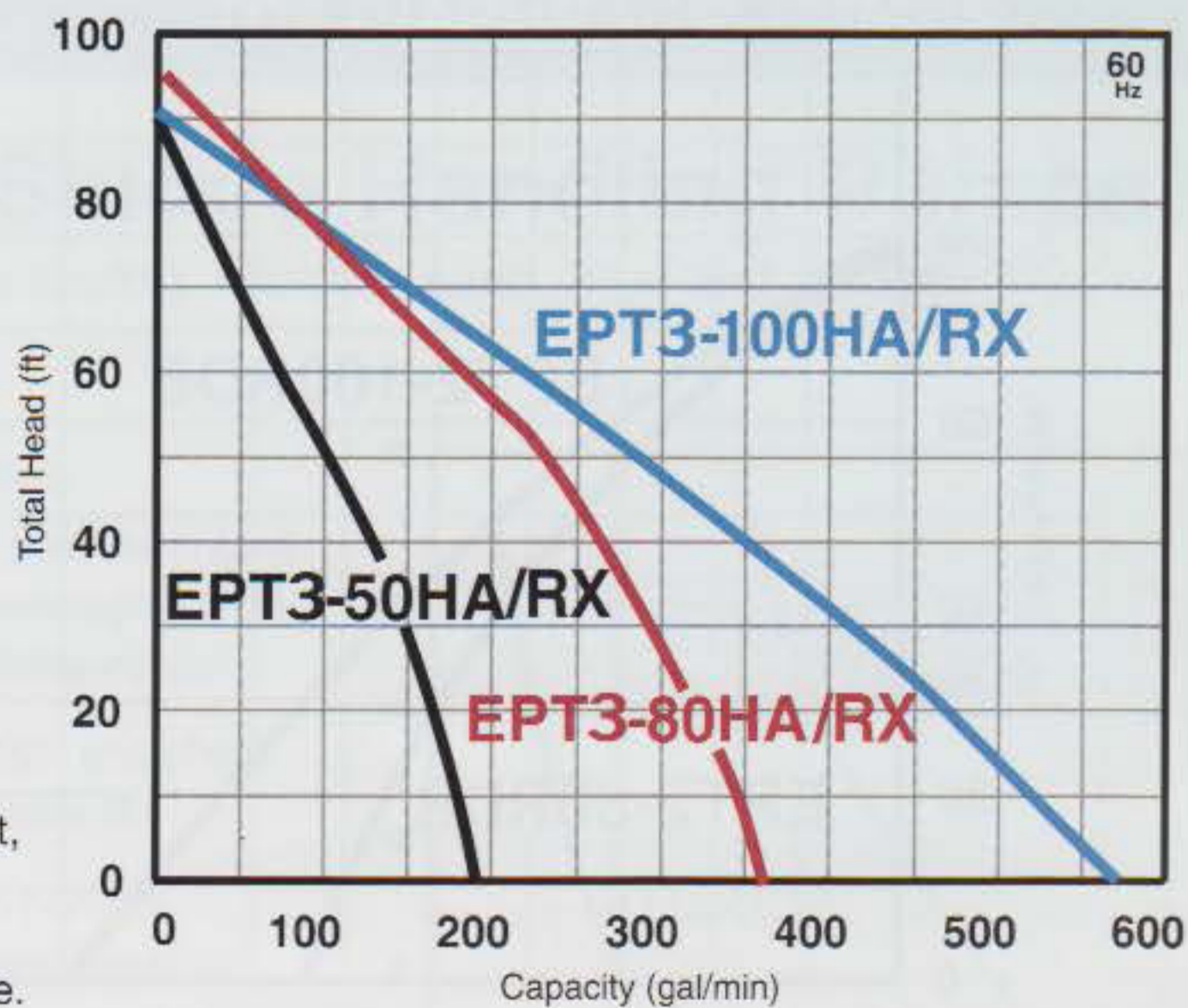
Honda  
EPT3-100HA



Robin Subaru  
EPT3-50RX

### EPT3-RX Gas Engine Trash Pumps Powered by Robin Subaru

- Extremely Silent. EX Robin Engine is two dBA quieter than competitive models.
- Low emission level for cleaner environment.
- High capacity Air Cleaner.
- Heavy Duty Chain Drive OHC System.
- Easy and reliable starting. 30-40% less pulling force than competitive models.
- High Chrome impeller, Cast Iron volute casing plus Stainless Steel wear plate promises increased durability and decreased maintenance.
- Pump/engine set mounted to cage frame on Rubber Vibration Cushions to buffer stress and wear.
- Durable Rolled-Steel frame provides pump/engine with maximum protection, perfect ease of handling or transport, and safe operation.
- Galvanized Steel hose couplings promise longer thread life.



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
EPT3-50HA	2 NPT male	HONDA GX-160	5.5 / 3600	23 1/4 x 18 1/4 x 17 3/8	82
EPT3-80HA	3 NPT male	HONDA GX-240	8.0 / 3600	27 1/2 x 20 1/8 x 25 5/8	136
EPT3-100HA	4 NPT male	HONDA GX-340	11.0 / 3600	30 1/8 x 20 1/8 x 26	160
EPT3-50RX	2 NPT male	ROBIN SUBARU EX17	6.0 / 4000	23 1/4 x 18 1/4 x 17 3/8	82
EPT3-80RX	3 NPT male	ROBIN SUBARU EX27	7.0 / 4000	27 1/2 x 20 1/8 x 25 5/8	136
EPT3-100RX	4 NPT male	ROBIN SUBARU EH36	11.5 / 4000	30 1/8 x 20 1/8 x 26	160

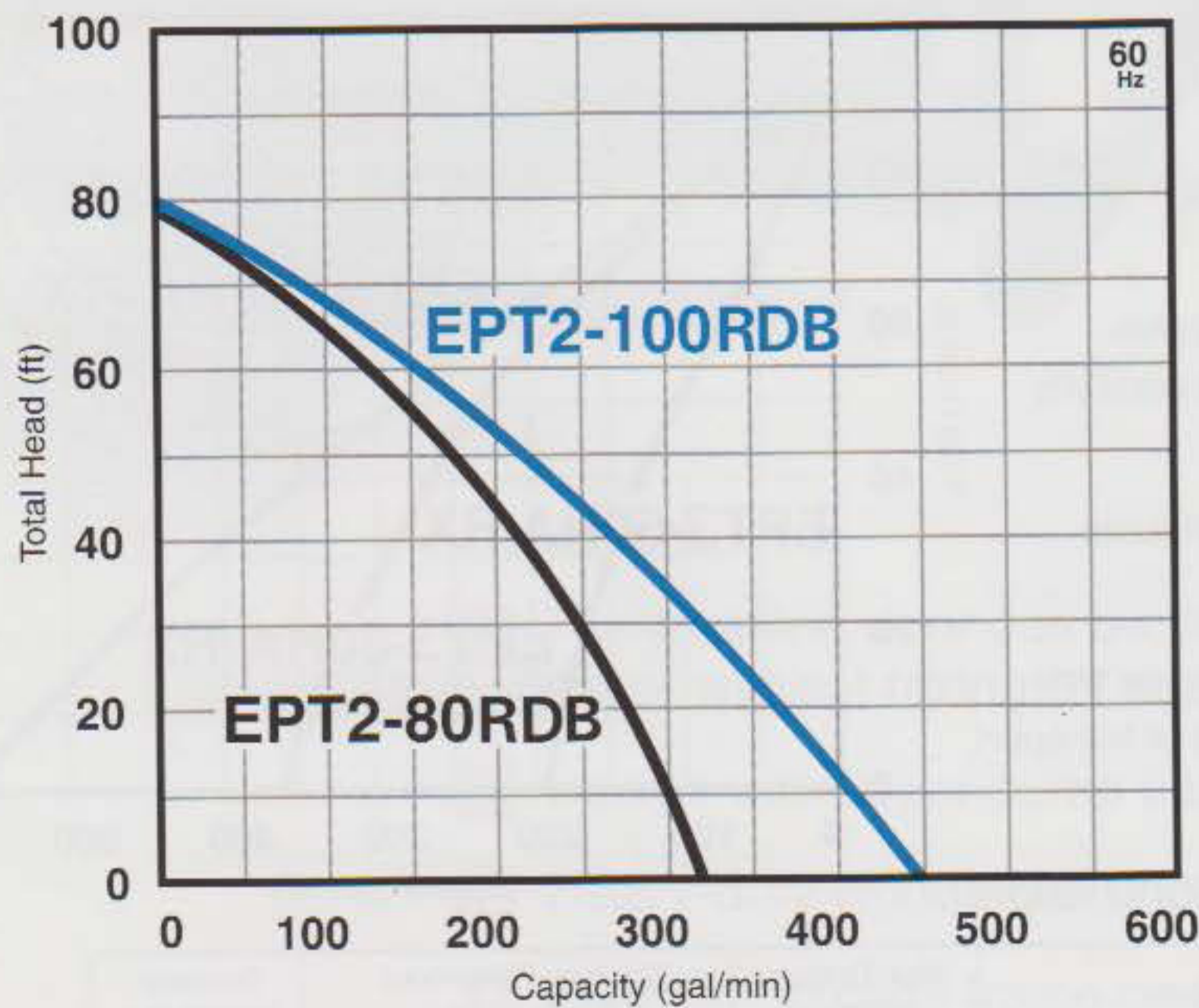
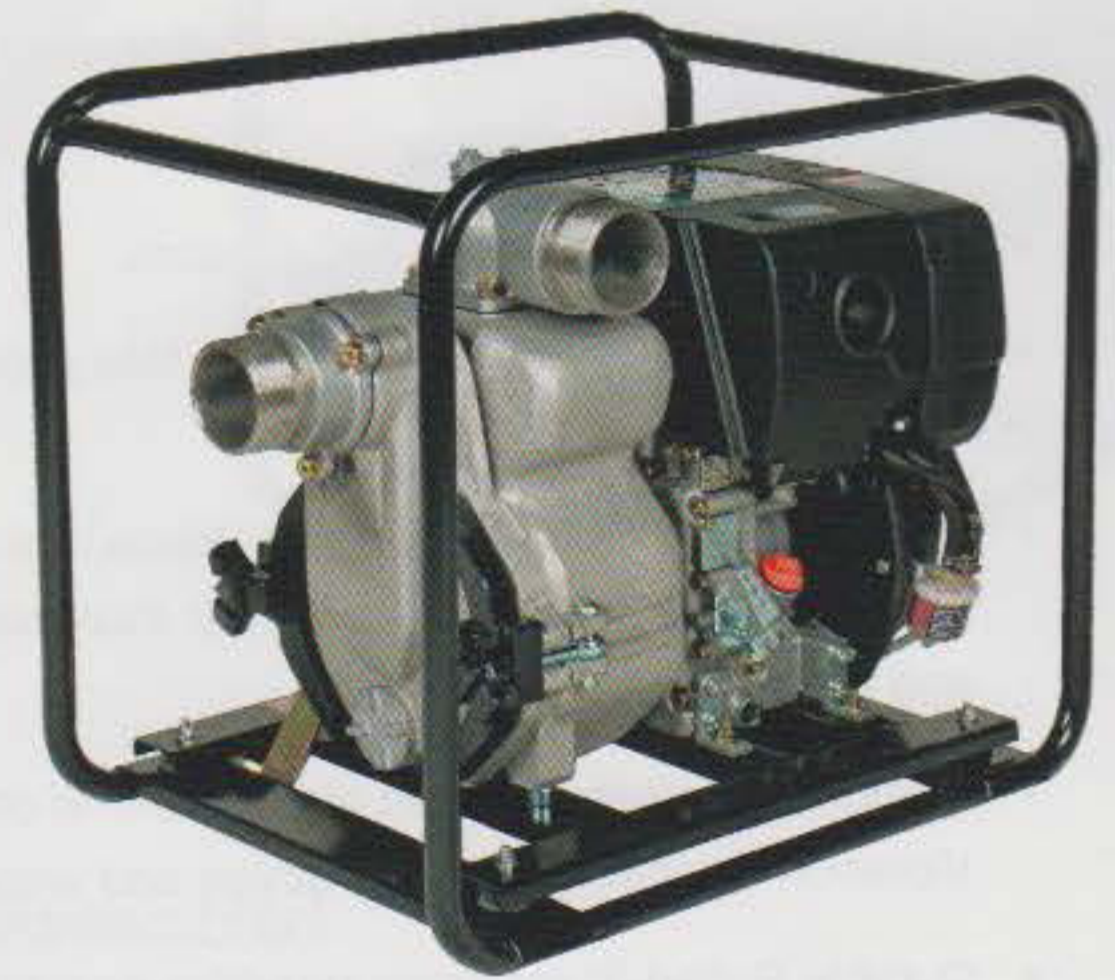
# Engine Powered Pumps

## NEW: EPT2-RDB DIESEL ENGINE PUMPS

Powered by quality, dependable Robin Hatz Diesel engine. Built with the highest quality components for use on your toughest dewatering jobs.

### EPT2-RDB Diesel Engine Trash Pumps Powered by Robin Hatz

- Heavy-duty Robin Hatz Diesel Engine
- Low emission level for cleaner environment
- Silicon carbide mechanical seals
- Extremely quiet
- High capacity Air Cleaner
- Easy and reliable starting
- High chrome impeller
- Cast iron volute casting plus stainless steel wear plate
- Pump / engine set mounted to cage frame on rubber vibration cushions
- Durable rolled-steel frame
- Galvanized steel hose couplings



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
EPT2-80RDB	3 NPT male	Robin Hatz 1B30	6.8 / 3600	26 X 19 X 24	128
EPT2-100RDB	4 NPT male	Robin Hatz 1B40	9.9 / 3600	26 X 19 X 26	193

## THP HIGH PRESSURE PUMPS

# High Pressure and High Performance

A pump for sprinkling, irrigation and fire protection.

### THP-4070-HA Features

- Heavy-duty Honda gas engine with oil sensor and Silicon Carbide mechanical seal provides the longest life in this class.
- Maximum pressure of 100 PSI for high pressure applications.
- Versatile 3-way discharge allows pump to run up to three discharge lines simultaneously. Two 1" couplings and one 1 1/2" coupling.
- High head, closed impeller and cast iron volute casing deliver high performance and long wear life.



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
THP-4070HA	(1) 1 1/2" (2) 1"	Honda GX-160KISX	5.5 / 3600	21 x 16 x 18	62

## TD4 DIAPHRAGM PUMPS

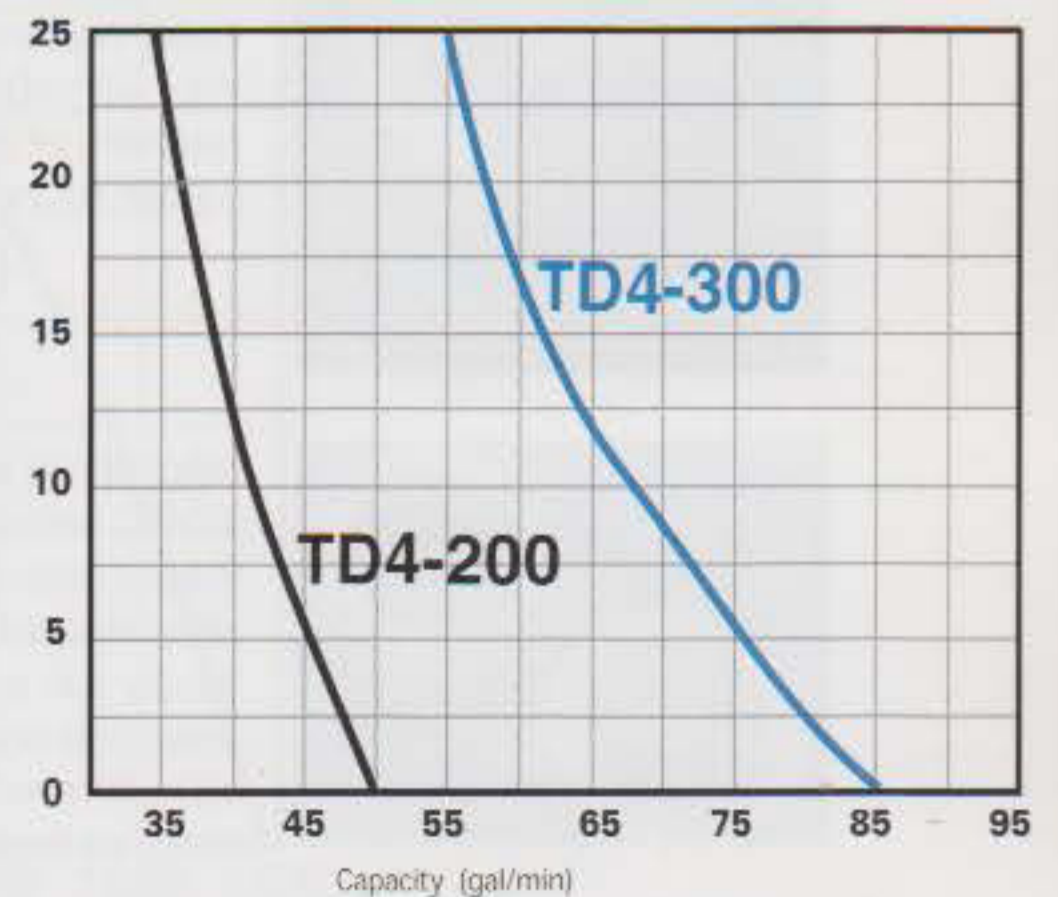
# Powerful Sand, Mud and Sludge Handling Pumps

Capable of continuous dry operation for seepage dewatering. Handles sand, mud and sludge.



### TD4 Series Features

- Heavy-duty Honda gasoline engine with oil sensor delivers high power from a compact, reliable design.
- Durable TPE diaphragm and check valves for extended wear life.
- Balanced wheel and handle assembly provide easy handling.



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
TD4-200	2 NPT male	Honda GX-120	4.0 / 3600	32 x 29 x 25	145
TD4-300	3 NPT male	Honda GX-120	4.0 / 3600	32 x 29 x 25	145

# Engine Powered Pumps

**EPT2-100DD HEAVY DUTY TRAILER MOUNTED**

## Trailer Mounted Trash Pumps for Tough Jobs

Dewatering to sewage, clean water to 3-inch solids—our trash pumps do it all.



### EPT2-100DD and EPT2-150DD Features

- Heavy-duty Deutz diesel engine with electric start and 40 U.S. gallon fuel tank provides a minimum of 24 hours run time per tank.
- Pass 3" solids (EPT2-150DD) or 2" solids (EPT2-100DD) with non-clog, wear resistant ductile iron impeller on 304 stainless steel shaft sleeve.
- Oil and abrasion resistant, rubber-lined front and rear wear plates.
- Long-life grease lubricated tungsten carbide mechanical seals (optional oil lubricated seals available).
- Heavy-duty DOT road trailer with 15" 6-ply tires and 2" ball hitch (optional pintle hitch available).

EPT2-100DD SERIES



Two-vane impeller with rear equalizing vanes, non-clogging, semi-open, ductile iron with 316 stainless steel shaft sleeves.



Wear plate: Easily replaced cast iron, with abrasion resistant oil proof rubber facing.



Mechanical seal: TC/TC with Buna-N Elastomers, grease or oil lubricated allowing for dry run and operation on high vacuum even with abrasive liquids.

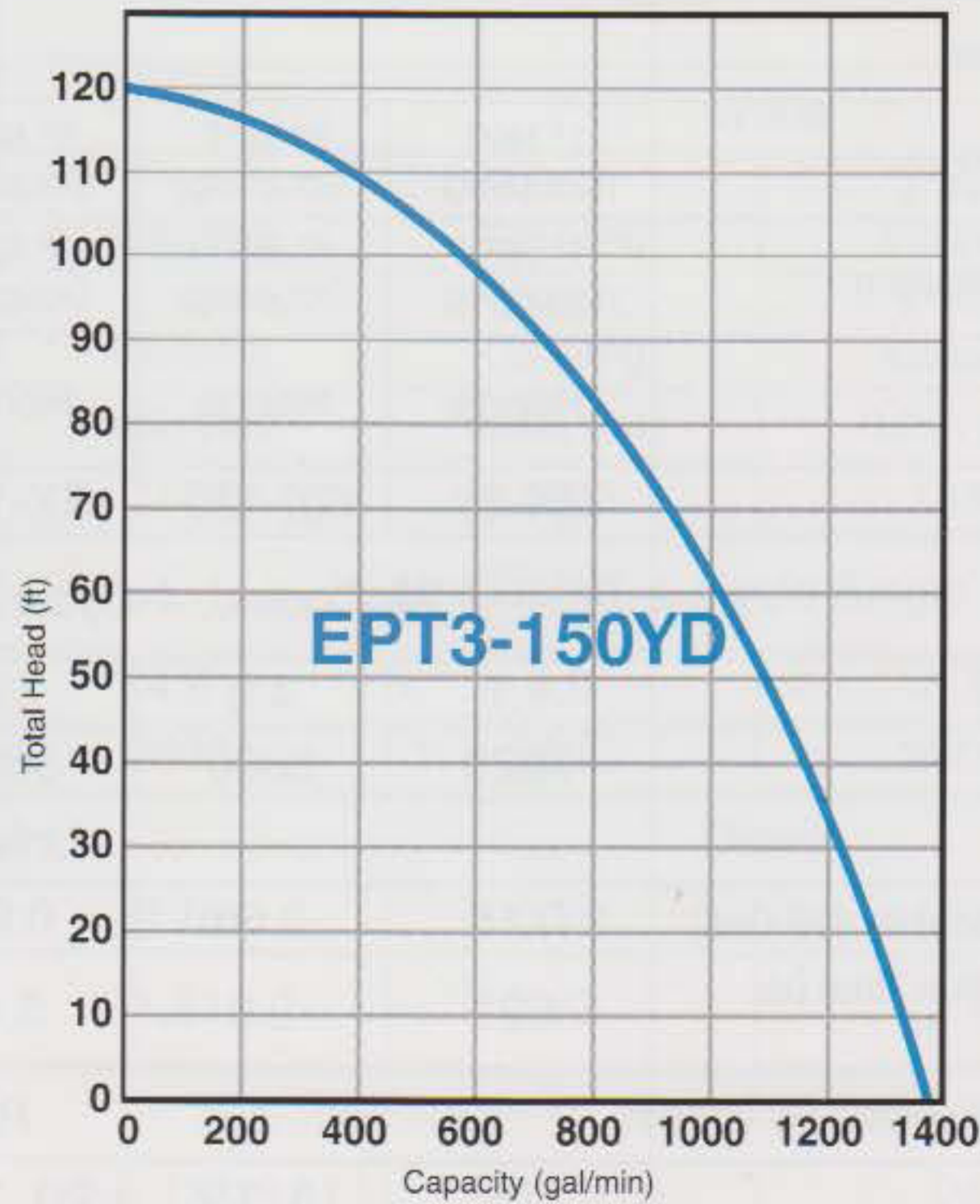


Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
EPT2-100DD	4 NPT male	Deutz F2L1011	24.5 / 2800	100 x 63 1/2 x 59	1800
EPT2-150DD	6 NPT male	Deutz F3L1011	36 / 2800	100 x 63 1/2 x 59	2100

# Powerful New 6-Inch Self-Priming Trash Pump

## EPT3-150YD Features

- Powered by a heavy-duty water cooled Yanmar diesel engine - Model 3TNV88 featuring low emissions, noise, vibration, and lower fuel consumption.
- Capable of passing 3" solids and is designed for rugged applications in rental, construction, civil engineering, industrial, wastewater and agricultural applications.
- Constructed with a class 30 cast iron casing, two vane ductile iron impeller and replaceable ductile iron volute.
- Heavy-duty DOT road trailer with 15" 6-ply tires and 2" ball hitch (optional pintle hitch available).



Model	Suction Size (in.)	Engine	Max. Output (hp/rpm)	Shipping Dimensions (L x W x H in.)	Shipping Weight (lb.)
EPT3-150YD	6 NPT male	YANMAR 3TNV88	30 / 3000	111 x 60 x 69	1750

# Engine Powered Pumps

## ENGINE POWERED PUMPS SPECIFICATIONS



	TE2-25HA 1" Dewatering Pump	TE2-50HA 2" Dewatering Pump	TE2-80HA 3" Dewatering Pump	TE2-100HA 4" Dewatering Pump	TE2-50RX 2" Dewatering Pump	TE2-80RX 3" Dewatering Pump	
<b>FLUID</b>	Max. Capacity (GPM)	37	137	264	476	264	
	Max. Capacity (GPH)	2220	8220	15840	28531	15840	
	Max. Head (ft)	109	115	105	92	105	
	Max. Solid Diameter (in.)	0	3/8	3/8	3/8	3/8	
<b>PUMP</b>	Impeller Type	Semi-Open					
	Impeller (Diaphragm) Material	Cast Iron					
	Volute Casting Material	Cast Iron					
	Wear Plate Material	Integral part of volute					
	Pump Casing Material	Die Cast Aluminum					
	Shaft Seal	Silicon Carbide Mechanical Seal					
	Seal Lubricant	Water					
	Discharge Connection	1" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling
Suction Connection	1" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	
<b>ENGINE</b>	Brand	Honda	Honda	Honda	Honda	Robin Subaru	Robin Subaru
	Model	GX-25	GX-120	GX-160	GX-240	EX13	EX17
	Type	Air Cooled, 4-Cycle Single Cylinder with Oil Sensor					
	Output (hp)	1.1	4.0	5.5	8.0	4.5	6.0
	RPM	2220	3600	3600	3600	4000	4000
	Fuel	Unleaded Gasoline					
	Fuel Tank Capacity (US Gal.)	0.15	0.66	0.95	1.59	0.95	0.95
	Continuous Run Time per Tank (hr.)	1.21	3.0	3.3	3.2	3.28	2.71
	Starting Method	Recoil Starter					
	<b>DIMENSION</b>	Length (in.)	9	18 1/2	20 1/2	25	18 1/2
Width (in.)		14	14 5/8	16 1/2	18	14 5/8	16 1/2
Height (in.)		13	17 1/8	18 1/8	23 1/2	17 1/8	18 7/8
Shipping Weight (lbs.)		12	55	64	109	55	64





	<b>TE2-50RDB</b> 2" Dewatering Pump	<b>TE2-80RDB</b> 3" Dewatering Pump	<b>EPT2-80RDB</b> 3" Dewatering Pump	<b>EPT2-100RDB</b> 4" Dewatering Pump
<b>FLUID</b>	Max. Capacity (GPM)	172	212	317
	Max. Capacity (GPH)	10320	12720	19020
	Max. Head (ft)	98	75	79
	Max. Solid Diameter (in.)	3/8	3/8	1 1/2
<b>PUMP</b>	Impeller Type	Semi-Open		
	Impeller (Diaphragm) Material	Cast Iron		
	Volute Casting Material	Cast Iron		
	Wear Plate Material	Integral part of volute		
	Pump Casing Material	Die Cast Aluminum		
	Shaft Seal	Silicon Carbide Mechanical Seal		
	Seal Lubricant	Water		
	Discharge Connection	2" NPT Coupling	3" NPT Coupling	3" NPT Coupling
Suction Connection	2" NPT Coupling	3" NPT Coupling	3" NPT Coupling	4" NPT Coupling
<b>ENGINE</b>	Brand	Robin Hatz	Robin Hatz	Robin Hatz
	Model	1B20	1B30	1B30
	Type	Air-Cooled, 4-Cycle Single Cylinder		
	Output (hp)	4.9	4.9	6.8
	RPM	3600	3600	3600
	Fuel	Diesel		
	Fuel Tank Capacity (US Gal.)	0.78	0.78	1.32
	Continuous Run Time per Tank (hr.)	1.21	3.0	3.1
	Starting Method	Recoil Starter		
<b>DIMENSION</b>	Length (in.)	24 13/16	24 13/16	26
	Width (in.)	17 15/16	17 15/16	19
	Height (in.)	22 1/4	22 1/4	24
	Shipping Weight (lbs.)	95.1	97.3	128

# Engine Powered Pumps

## ENGINE POWERED PUMPS SPECIFICATIONS



		EPT3-50HA	EPT3-80HA	EPT3-100HA	EPT3-50RX	EPT3-80RX	EPT3-100RX
		2" Trash Pump	3" Trash Pump	4" Trash Pump	2" Trash Pump	3" Trash Pump	4" Trash Pump
<b>FLUID</b>	Max. Capacity (GPM)	190	360	570	190	360	570
	Max. Capacity (GPH)	11400	21600	34200	11400	21600	34200
	Max. Head (ft)	90	96	91	90	96	91
	Max. Solid Diameter (in.)	1	1 1/2	1 1/2	1	1 1/2	1 1/2
<b>PUMP</b>	Impeller Type	Semi-Open					
	Impeller (Diaphragm) Material	High Chrome Iron Casting					
	Volute Casting Material	Cast Iron					
	Wear Plate Material	Stainless Steel					
	Pump Casing Material	Cast Aluminum					
	Shaft Seal	Silicon Carbide Mechanical Seal					
	Seal Lubricant	Water					
	Discharge Connection	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling
Suction Connection	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	
<b>ENGINE</b>	Brand	Honda	Honda	Honda	Robin Subaru	Robin Subaru	Robin Subaru
	Model	GX-160	GX-240	GX-340	EX17	EX27	EH36
	Type	Air Cooled, 4-Cycle Single Cylinder with Oil Sensor					
	Output (hp)	5.5	8.0	11.0	6.0	7.0	11.5
	RPM	3600	3600	3600	4000	4000	4000
	Fuel	Unleaded Gasoline					
	Fuel Tank Capacity (US Gal.)	0.95	1.6	1.7	0.95	0.95	1.8
	Continuous Run Time per Tank (hr.)	3.3	3.2	2.6	3.28	2.71	2.8
	Starting Method	Recoil Starter					
	<b>DIMENSION</b>	Length (in.)	23 1/4	27 1/2	30 1/8	23 1/4	27 1/2
Width (in.)		18 1/4	20 1/8	20 1/8	18 1/4	20 1/8	20 1/8
Height (in.)		17 3/8	25 5/8	26	17 3/8	25 5/8	26
Shipping Weight (lbs.)		82	136	160	82	136	160



	<b>THP-4070HA</b> High Pressure Pump	<b>TD4-200</b> 2" Diaphragm Pump	<b>TD4-300</b> 3" Diaphragm Pump	<b>EPT2-100DD</b> 4" Heavy-Duty Trash Pump	<b>EPT2-150DD</b> 6" Heavy-Duty Trash Pump	<b>EPT3-150YD</b> 6" Heavy-Duty Trash Pump	
<b>FLUID</b>	Max. Capacity (GPM)	106	50	85	666	1400	1300
	Max. Capacity (GPH)	6360	3000	3000	40000	84000	78000
	Max. Head (ft)	231	25	25	94	86	120
	Max. Solid Diameter (in.)	n/a	1 - 1 1/4	1 - 1 1/4	2	3	3
<b>PUMP</b>	Impeller Type	Closed	Diaphragm	Diaphragm	Semi-Open		
	Impeller (Diaphragm) Material	Aluminum	TPE	TPE	Ductile Iron		
	Volute Casting Material	Cast Iron	n/a	n/a	Cast Iron		
	Wear Plate Material	Integral part of volute	n/a	n/a	Rubber Lined Cast Iron	Integral part of volute	
	Pump Casing Material	Die Cast Aluminum			Cast Iron		
	Shaft Seal	Silicon Carbide Mechanical Seal	n/a	n/a	Tungsten Carbide Mechanical Seal	Carbon/Chrome Mechanical Seal	
	Seal Lubricant	Water	n/a	n/a	Grease (Oil optional)	Grease	
	Discharge Connection	(1) 1"-1 1/2" & (2) 1" Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	6" NPT Coupling	6" NPT Coupling
	Suction Connection	(1) 1"-1 1/2" & (2) 1" Coupling	2" NPT Coupling	3" NPT Coupling	4" NPT Coupling	6" NPT Coupling	6" NPT Coupling
	<b>ENGINE</b>	Brand	Honda	Honda	Honda	Deutz	Deutz
Model		GX-160KISX	GX-120HX	GX-120HX	F2L1011	F3L1011	3TNV88
Type		Air Cooled, 4-Cycle Single Cylinder with Oil Sensor			Air/Oil Cooled, 4-Cycle Two Cylinder with Temperature /Oil Sensor	Air/Oil Cooled, 4-Cycle Three Cylinder with Temperature /Oil Sensor	Water Cooled, 4-Cycle Three Cylinder with Temperature /Oil Sensor
Output (hp)		5.5	4.0	4.0	24.5	36	30
RPM		3600	3600	3600	2800	2800	3000
Fuel		Unleaded Gasoline			Diesel		
Fuel Tank Capacity (US Gal.)		0.95	0.66	0.66	40	40	40
Continuous Run Time per Tank (hr.)		3.3	3.0	3.0	24	24	24
Starting Method	Recoil Starter			Electric, 12V			
<b>DIMENSION</b>	Length (in.)	21	33 1/2	33 1/2	100	100	111
	Width (in.)	16	31 1/2	31 1/2	63 1/2	63 1/2	60
	Height (in.)	18	31	31	59	59	69
	Shipping Weight (lbs.)	62	155	155	1800	2100	1750

# TSURUMI PUMP

## Portable Generators

**TSURUMI TPG3-Series Generators** are designed to withstand the severe conditions of construction jobsites or industrial applications, especially where extra durability and dependable, stable power are required. Ideal to supply the power to Tsurumi's single-phase submersible pumps and all your electrical power tools such as drills, saws, lighting and heaters.

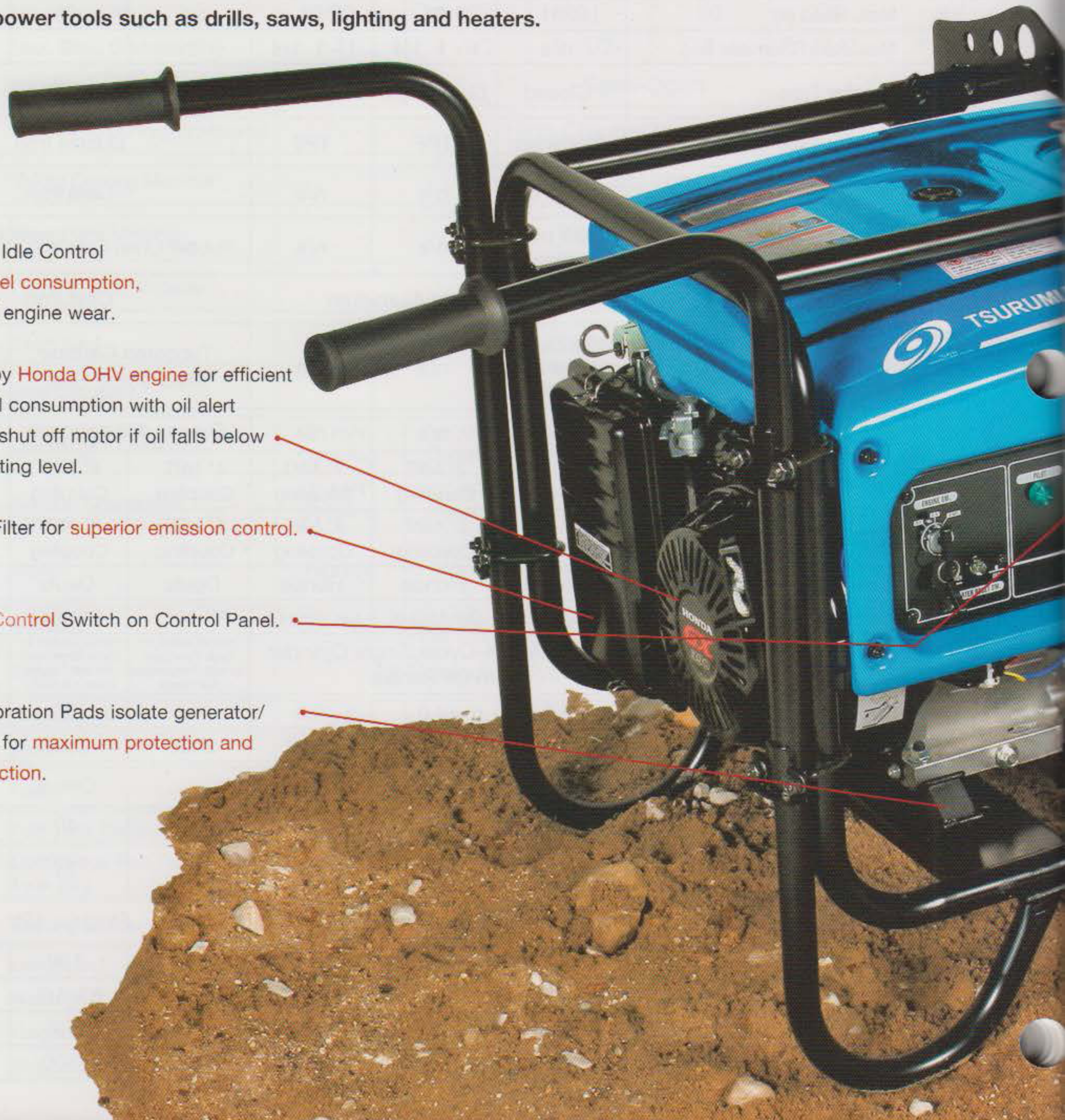
Automatic Idle Control reduces fuel consumption, noise, and engine wear.

Powered by **Honda OHV engine** for efficient fuel and oil consumption with oil alert system to shut off motor if oil falls below safe operating level.

Large Air Filter for superior emission control.

Auto Idle Control Switch on Control Panel.

Rubber Vibration Pads isolate generator/engine set for maximum protection and noise reduction.



- High Capacity Fuel Tank with Fuel Gauge for extended run time.
- Large, Silent Muffler with USDA qualified spark arrestor to greatly reduce noise.
- Optional Wheel Kits & Lifting Bail are available.



	TPG3-3000HDX	TPG3-4500HDX
Max. / Rated Output	2800/2400 watt	4500/3600 watt
Max. / Rated Current (120V, 240V)	23.3/20	37.5/30, 18.8/15
Voltage	120 (60Hz, 1Ø)	120/240 (60Hz)
AC Outlet Receptacles	1-NEMA 5-20R Duplex (20A, 12A, W/GFCI)	2-NEMA 5-20A Duplex (20A, 12A, W/GFCI) 1-NEMA L5-30R (30A, 120V, Twist Lock) 1-NEMA L14-20R (30A, 120/240V, Twist Lock)
Engine Models	GX160U1VES6	GX240U1EDT6
Max. HP	5.5 (3600RPM)	8.0 (3600RPM)
Displacement	163 (10inch <sup>3</sup> )	242 (15inch <sup>3</sup> )
Fuel Tank Capacity (gallon)	4.2	6.6
Running Time (Rated load, 1/2 Load)	12.1	12.5
Starting System	Recoil	Recoil
Noise level (Rated Load)	64dB	68dB
Shipping Size (L x W x H) (inch)	23 5/8 x 16 1/2 x 19 3/4	27 3/16 x 21 1/4 x 20 1/4
Shipping Weight (lbs.)	110.0	164.0



	TPG3-6000HDX	TPG3-7000HDX TPG3-7000HDXE
Max. / Rated Output	5500/4800 watt	6800/6000 watt
Max. / Rated Current (120V, 240V)	45.8/40, 22.9/20	56.7/50, 28.3/25
Voltage	120/240 (60Hz)	120/240 (60Hz)
AC Outlet Receptacles	2-NEMA 5-20A Duplex (20A, 12A, W/GFCI) (20A, 12A, W/GFCI) 1-NEMA L5-30R (30A, 120V, Twist Lock) 1-NEMA L14-20R (30A, 120/240V, Twist Lock)	
Engine Models	GX340U1EDT6	GX390U1EDT6
Max. HP	11.0 (3600RPM)	13.0 (3600RPM)
Displacement	337 (21inch <sup>3</sup> )	389 (24inch <sup>3</sup> )
Fuel Tank Capacity (gallon)	4.2	6.6
Running Time (Rated load, 1/2 Load)	12.1	12.5
Starting System	Recoil	Recoil (HDX), Electric (HDXE)
Noise level (Rated Load)	72dB	78dB
Shipping Size (L x W x H) (inch)	27 3/16 x 21 1/4 x 20 1/4	27 3/16 x 21 1/4 x 20 1/4
Shipping Weight (lbs.)	186.0	194.0 (HDX), 211.0 (HDXE) Battery not included.

# 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.

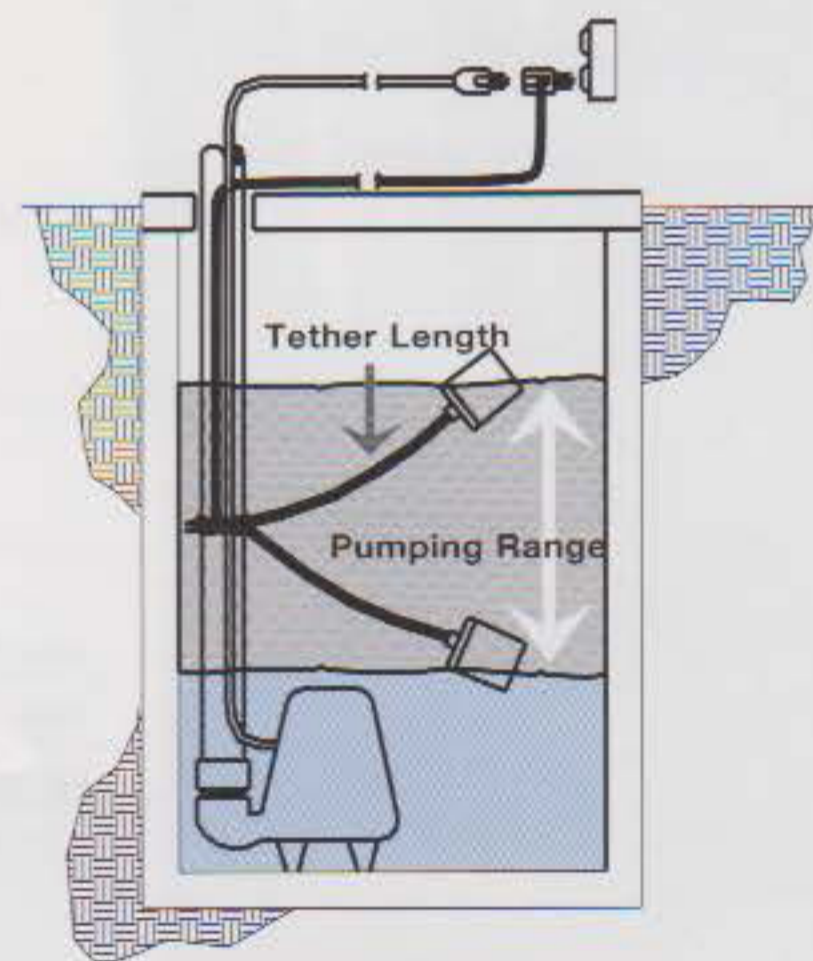
Tether Length	Pumping Range
3.5 inches	7 inches
6 inches	10 inches
10 inches	16 inches
14 inches	22 inches
18 inches	28 inches
22 inches	33 inches
24 inches	36 inches

Note: Due to weight of cable, 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.



### 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".



Automatic Float Switch

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-62 (110V)	30
				LB-480-62 (110V)	30
TS-302	15 amps / 120 VAC, 60Hz	85 amps / 120VAC, 60Hz	5-15P	LB3-750 (110V)	30
TS-303	15 amps / 250 VAC, 60Hz	85 amps / 250VAC, 60Hz	6-15P *	LB3-750 (220V)	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-62, the Residue Kit allows pumping of residual water down to 0.4 inches.

## 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.

# The Pump Technology That The World Trusts.



**Tsurumi** introduced its overseas strategy in the 1960s. Our technical capabilities gained recognition first Asia in the 1970s and then in the United States and Europe in the 1980s.

Following these initial successes, we sought to accelerate the overseas strategy through our International Sales Division. Remarkable successes in fields including construction, civil engineering, mining, industrial wastewater, domestic wastewater, sewage treatment, flood control, facilities designed to bring people into closer contact with water, and scenery creation have proven Tsurumi's creativity and capability to the world.

Today Tsurumi has expanded its bases of operations and is active in 45 countries and regions. In addition to supporting a variety of work sites, our high-performance pump products are widely used in large-scale national projects, where they fulfill their roles reliably.



## TSURUMI PUMP

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



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