

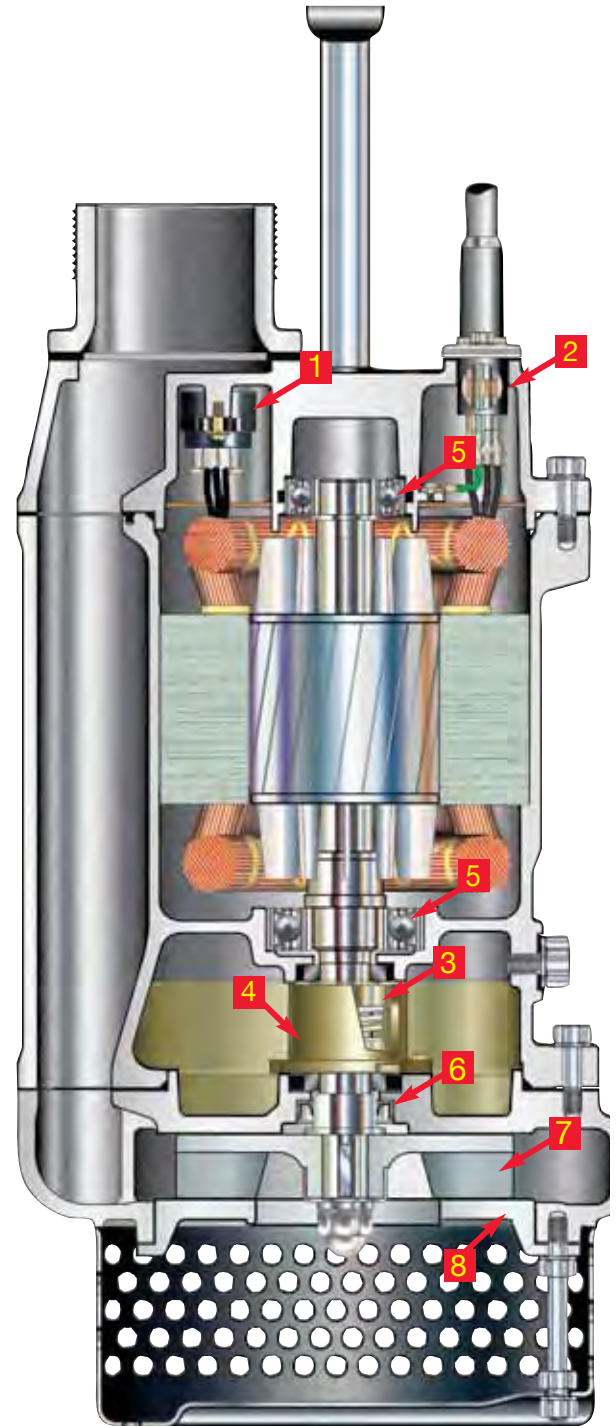
BUILT FOR WORK



CONTRACTOR / MINING PUMPS

Rugged Tsurumi pumps are loaded top to bottom with features to withstand your toughest dewatering applications.

- 1 Motor Protector:**
Protects against overheating and run-dry.
- 2 Anti-Wicking Block:**
Prevents water incursion due to capillary wicking should the power cable be damaged or the end submerged.
- 3 Double Inside Mechanical Seal with Silicon Carbide Faces:**
Provides the longest operational life of any available seal.
- 4 Oil Lifter:**
Lubrication of the seal faces down to 1/3 of normal oil level and greatly extends the seal life - uses no additional power.
- 5 Ball Bearings:**
Permanently lubricated, double-shielded, single row deep groove, high temperature C3 Ball bearings, Rated B-10 = 60,000 Hours.
- 6 Lip Seal Protector:**
Protects mechanical seal from abrasive particles.
- 7 High Chrome Iron (Optional) Impeller:**
Resists wear by abrasive particles.
- 8 Field Adjustable / Replaceable, Ductile Iron Suction Cover:**
Resists wear by abrasive particles, and is easily adjusted to maintain pump performance.



The cutaway view above is a KTZ series pump. This pump illustrates the common design features used in Tsurumi dewatering pumps. Other series may differ in shape and structure.

Tsurumi Three-Phase Dewatering Pumps

KTZ Series



High head and high volume dewatering.

Semi-open High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

2, 3, 4 and 6 inch discharge sizes
2, 3, 5, 7.5, 10, and 15 horsepower

LH-W Series



Extra high head pumping.

Dual staged, Closed High Chrome Impeller.

Pressure relief ports protect mechanical seal from excessive pressure and water hammer.

2, 3, and 4 inch discharge sizes
4, 7.5, 15, 30, and 40 horsepower

LH Series



Medium to high volume at high heads.

Closed High Chrome Impeller.

Easy conversion between high head and high volume models in each motor size.

4, 6, and 8 inch discharge sizes
4, 20, 30, 35, 40, 50, 60, 75, 100, 120, and 150 horsepower

KTV(E) Series



Portable job-site dewatering.

Semi-vortex Urethane Rubber or Ductile Iron Impellers.

KTVE pumps with built-in electrode for automatic operation without a control panel.

2 and 3 inch discharge sizes
1, 2, 3, 5, and 7.5 horsepower

KRS Series



High volume dewatering.

Semi-open Ductile Iron and High Chrome Impellers.

1800 RPM motors reduce impeller wear.

3, 4, 6, 8, 10, 12, and 14 inch discharge sizes
3, 5, 7.5, 10, 15, 20, 25, 30, 40, and 50 horsepower

GSZ Series



High volume dewatering and slurry pumping.

Closed High Chrome and Stainless Steel Impeller.

1800 RPM and 1200 RPM motors reduce impeller wear.

6, 8, and 10 inch discharge sizes
30, 50, 60, 75, and 100 horsepower

LBT Series



8" Minimum casing dewatering.

Semi-Vortex Impeller.

Allows for jobsite dewatering utilizing smaller generators and smaller casings.

2 and 3 inch discharge sizes
1/2, 1 and 2 horsepower

SFQ Series



Corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 316 Stainless Steel.

All elastomers are Viton.

2, 3 and 4 inch discharge sizes
1, 2, 5, 7.5, 10 and 15 horsepower.

SQ Series



Portable corrosive liquid dewatering.

Semi-open Stainless Steel Impeller.

All parts in contact with the liquid are 304 Stainless Steel.

2 inch discharge sizes
1/2 and 1 horsepower



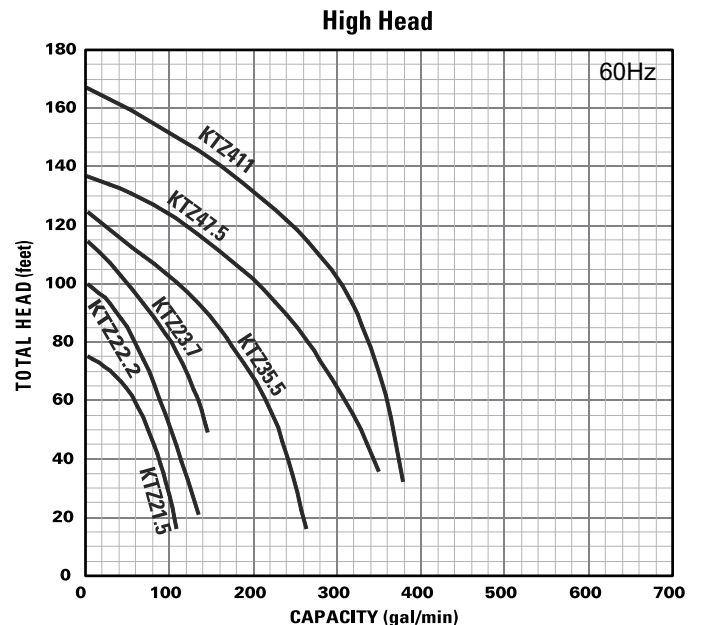
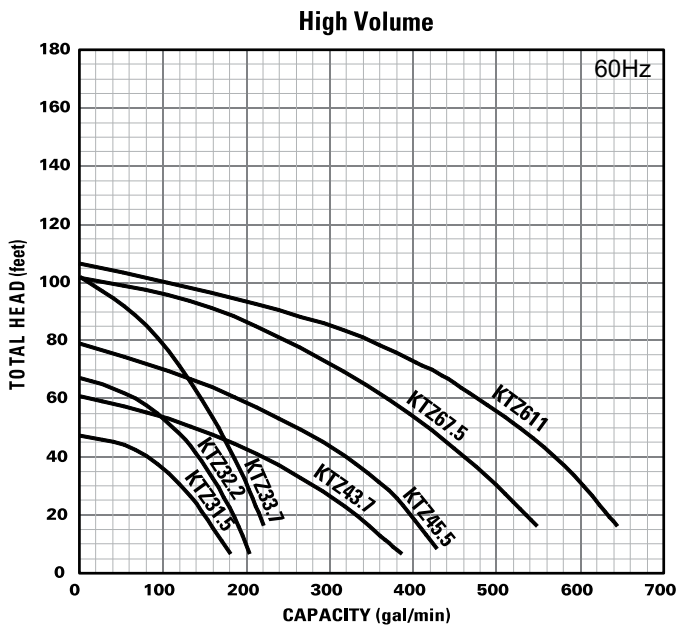


Field conversions from high volume to high head are quick and easy: simply change the impeller, suction cover, and discharge connection.

Material

Impeller:	High Chrome Iron
Casing:	Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC, Chloroprene Rubber

Performance Curves



KTZ pumps convert quickly and easily between high head and high volume!

Features

- High Pressure Capability
- Easily converted between high pressure and high volume configurations
- High Pressure Rated Mechanical Seals
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **KTZ series** is designed to withstand the most demanding conditions, including highly abrasive liquids found in construction, aggregate and mining applications. Versatility is increased as each pump model has the capability of being easily converted between high head and high volume performance with a simple change of impeller and wear plate. All KTZ series pumps incorporate high-chrome impellers for maximum wear life! Dual mechanical seals are isolated in the oil chamber to protect the seal faces from abrasion and corrosion. Silicon carbide mechanical seals are used to provide superior motor protection.

All KTZ series pumps come standard with high pressure mechanical seals. This exceeds the competition's standard design and offers longer mechanical seal life for a more reliable pump.

Tsurumi incorporates Pressure Relief Ports on the 10HP and 15HP models, exposing the mechanical seal only to the pressure developed by the sump submergence level. This has virtually eliminated the premature wear and failure of mechanical seals in higher pressure applications.

MODEL	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
								Diameter	Height		
KTZ21.5	2	208-230 / 460 / 575	6.2-6.0 / 3.1 / 2.3	3400	2	106	75	9 1/4	21 9/16	4 3/4	66
KTZ31.5	2	208-230 / 460 / 575	6.2-6.0 / 3.1 / 2.3	3400	2	180	47	9 1/4	21 9/16	4 3/4	66
KTZ22.2	3	208-230 / 460 / 575	9.4-9.0 / 4.5 / 3.5	3410	2	132	100	9 1/4	22 3/8	4 3/4	75
KTZ32.2	3	208-230 / 460 / 575	9.4-9.0 / 4.5 / 3.5	3410	2	203	67	9 1/4	22 3/8	4 3/4	75
KTZ23.7	5	208-230 / 460 / 575	15.0-13.6 / 6.8 / 5.3	3410	3	143	115	11 1/8	25 1/16	5 7/8	139
KTZ33.7	5	208-230 / 460 / 575	15.0-13.6 / 6.8 / 5.3	3410	3	219	102	11 1/8	25 1/16	5 7/8	139
KTZ43.7	5	208-230 / 460 / 575	15.0-13.6 / 6.8 / 5.3	3410	4	386	61	11 1/8	25 1/16	5 7/8	139
KTZ35.5	7.5	208-230 / 460 / 575	21.0-20.0 / 10.0 / 7.9	3545	3	260	125	12 1/16	27 1/16	5 7/8	181
KTZ45.5	7.5	208-230 / 460 / 575	21.0-20.0 / 10.0 / 7.9	3545	4	428	79	12 1/16	27 1/16	5 7/8	181
KTZ47.5	10	208-230 / 460 / 575	28.8-26.6 / 13.3 / 10.4	3545	4	349	137	13	28 1/8	7 1/2	236
KTZ67.5	10	208-230 / 460 / 575	28.8-26.6 / 13.3 / 10.4	3545	4 (6)*	549	102	13	28 1/8 or (30 11/16)*	7 1/2	236
KTZ411	15	208-230 / 460 / 575	40.0-37.6 / 18.6 / 14.9	3520	4	377	167	14 11/16	31 3/4	7 1/2	293
KTZ611	15	208-230 / 460 / 575	40.0-37.6 / 18.6 / 14.9	3520	4 (6)*	645	107	14 11/16	31 3/4 or (30 3/16)*	7 1/2	300

* 6inch is optional

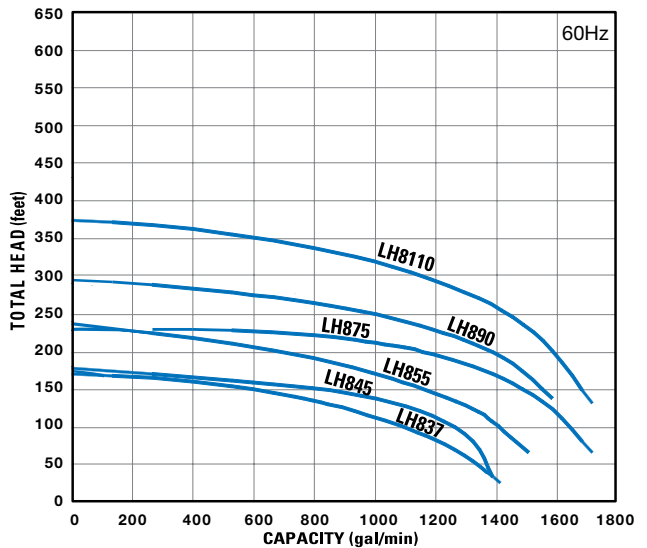
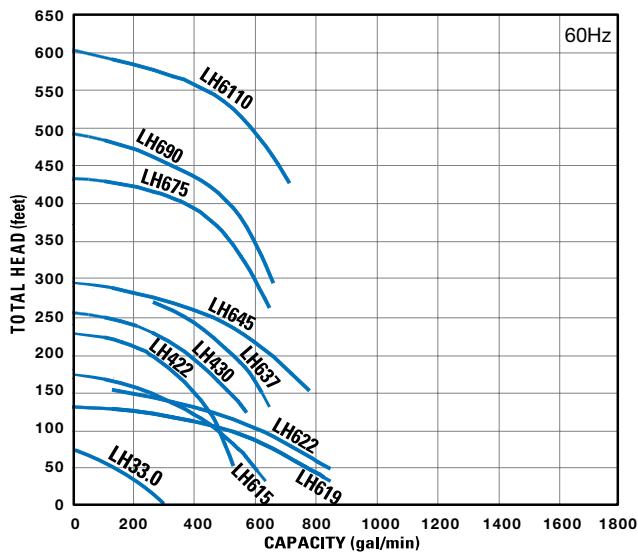
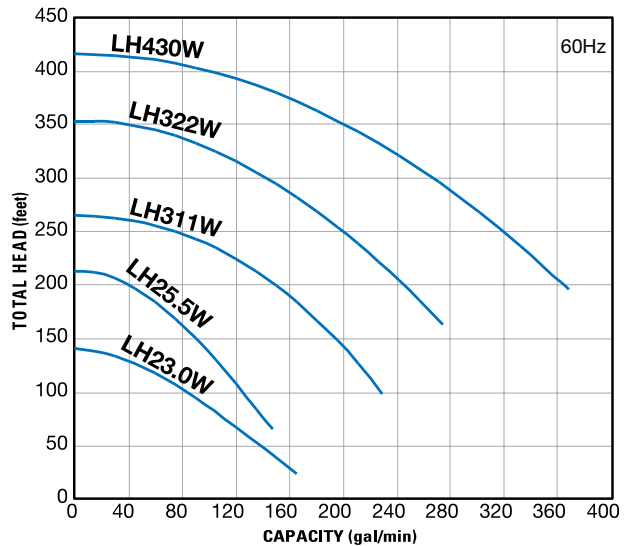


Slimline: LH33.0
- fits into 8" diameter pipes

Material

- Impeller: High Chrome Cast Iron
- Casing: Ductile Cast Iron
- Mechanical Seal: Silicon Carbide
- Motor Frame: Cast Iron
- Shaft: 420 Stainless Steel
- Fasteners: 304 Stainless Steel
- Cable: Chloroprene Sheath

Performance Curves



LH and LH-W pumps reach heights the competition only dreams of!

Features

- High Pressure Capabilities
- High Pressure Rated Mechanical Seals
- Seal Pressure Relief Ports
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **LH-W series** offers extremely high heads by utilizing dual staged, closed high chrome impellers. The **LH series** handles medium to high flows at higher heads. The durable construction of these pumps make them ideally suited for dewatering of mines and quarries, deep well pumping and any high head or long distance water transfer application.

Dual mechanical seals are isolated in the oil chamber protecting the seal faces from abrasive liquids. High pressure seals, capable of operating depths of 328 ft., are used on all LH-W series pumps and on LH series pumps from 20 to 60 HP. Additional seal protection is provided by Tsurumi's exclusive Seal Pressure Relief Ports. The Pressure Relief Ports provide a flow path above the pump casing to allow a release for water to flow from the pump and away from the shaft. The mechanical seal remains isolated in an oil chamber above this flow path and is protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of mechanical seals in high head pumping applications. Isolating the mechanical seals also protects against wear from abrasive materials in the pumping liquid.

LH/W SERIES

MODEL	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
								Diameter	Height		
LH23.0W	4	208-230 / 460 / 575	12.3-12.0 / 6.0 / 4.7	3430	2	145	140	7 5/16	24 13/16	7 7/8	101
LH25.5W	7.5	208 / 230 / 460 / 575	22.0 / 19.2 / 9.6 / 7.7	3385	2	129	213	9 5/8	29 1/2	6 3/4	176
LH311W	15	208 / 230 / 460 / 575	42.0 / 37.0 / 18.5 / 14.5	3465	3	201	266	10 5/8	40 5/16	7 7/8	287
LH322W	30	460 / 575	35.5 / 28.0	3490	3	240	354	13	48 5/8	11 3/4	670
LH430W	40	460 / 575	48.0 / 38.5	3475	4	322	417	14 3/8	54 1/8	11 3/4	714
LH33.0	4	208-230 / 460 / 575	12.3-12.0 / 6.0 / 4.7	3430	3	290	73	7 5/16	25 3/8	5 7/8	93
LH615	20	208-230 / 460 / 575	53.0 / 48.0 / 24.0 / 19.0	3465	6	634	173	13	39 15/16	17 1/4	470
LH619	25	460 / 575	31.0 / 25.0	3490	6	845	131	16 9/16	56	10 5/8	770
LH422	30	460 / 575	36.0 / 28.5	3490	4	528	230	16 9/16	53 1/4	9 7/8	770
LH622	30	460 / 575	36.0 / 28.5	3490	6	845	164	16 9/16	56	10 5/8	790
LH430	40	460 / 575	51.0 / 38.5	3475	4	573	123	16 9/16	53 1/4	9 7/8	780
LH637	50	460 / 575	58 / 46	3525	6	647	294	20 7/8	57	7 1/8	1090
LH837	50	460 / 575	58 / 46	3525	8	1413	171	20 7/8	58 9/16	7 1/8	1090
LH645	60	460 / 575	67 / 53	3530	6	779	295	20 7/8	57	7 1/8	1120
LH845	60	460 / 575	67 / 53	3530	8	1387	177	20 7/8	58 9/16	7 1/8	1120
LH855	75	460 / 575	87 / 70	3530	8	1506	236	21 5/8	67 9/16	7 7/8	1810
LH675	100	460 / 575	113 / 91	3530	6	647	433	21 5/8	66	7 7/8	1910
LH875	100	460 / 575	113 / 91	3530	8	1717	230	21 5/8	67 9/16	7 7/8	1910
LH690	120	460 / 575	137 / 110	3500	6	660	492	23 5/16	70 3/8	7 7/8	2420
LH890	120	460 / 575	137 / 110	3500	8	1585	295	23 5/16	70 3/8	7 7/8	2530
LH6110	150	460 / 575	180 / 136	3530	6	713	604	23 5/16	74 5/16	7 7/8	2850
LH8110	150	460 / 575	180 / 136	3530	8	1717	374	23 5/16	74 5/16	7 7/8	2960

KTV(E)

Lightweight, compact, durable and self-contained automatic operation



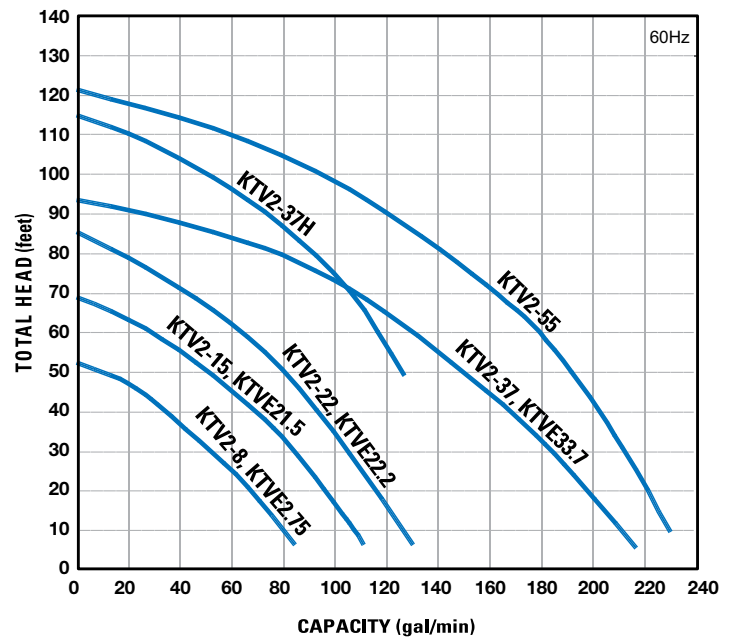
Built-in Automatic Operation KTV(E):

Allows a three phase pump to operate automatically in a smaller casing or sump where traditional float switches don't fit.

Material

Impeller:	Abrasion Resistant / Urethane Lined
Casing:	Aluminum
Mechanical Seal:	Silicon Carbide
Motor Frame:	Aluminum Alloy
Shaft:	403 / 420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



KTV(E) pumps are easily portable and highly resistant to wear!

Features

- Lightweight, Compact Size
- Long Life and Low Maintenance
- Simple Construction for Easy Repair
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection
- Automatic Operation on KTVE Series



The **KTV series** was developed with a die cast aluminum body and elastomer pump end to reduce weight and allow easy handling. The semi-vortex impeller allows for maximum particle passage size while offering increased parts life. In addition, the need for impeller efficiency adjustments has been completely eliminated.

The **KTVE series** offers the same features as the KTV series with the added benefit of an integrally mounted electrode probe for turning the pump on and off automatically. Unnecessary dry-run is prevented to save energy and reduce wear without the need for auto control panels and cumbersome float assemblies. The pump installs and handles like a standard pump yet operates automatically by simply connecting to a manual control panel.

	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS				
	MODEL	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
									Diameter	Height		
KTV SERIES	KTV2-8	1	208-230 / 460 / 575	3.4-3.2 / 1.6 / 1.3	3320	2	85	53	7 7/8	14 1/2	2 1/2	25
	KTV2-15	2	208 / 230 / 460 / 575	6.0 / 5.4 / 2.7 / 2.1	3440	2	111	69	9 7/16	15 9/16	3 1/8	46
	KTV2-22	3	208 / 230 / 460 / 575	8.2 / 7.4 / 3.7 / 2.9	3440	2	130	85	9 7/16	16 3/8	3 1/8	51
	KTV2-37H	5	208 / 230 / 460 / 575	14.2 / 12.6 / 6.3 / 5.0	3450	2	127	115	11 1/4	20 1/16	3 1/2	79
	KTV2-37	5	208 / 230 / 460 / 575	14.2 / 12.6 / 6.3 / 5.0	3450	3	217	94	11 1/4	20 1/16	3 1/2	79
	KTV2-55	7.5	208 / 230 / 460 / 575	21.5 / 19.0 / 9.5 / 7.5	3435	3	230	121	11 13/16	21 7/16	3 1/2	104

	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS				
	MODEL	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Pump Starting Water Level (in.)	Pump Weight (lbs.)
									Diameter	Height		
KTVE SERIES	KTVE2.75	1	208-220 / 440 / 575	3.4-3.2 / 1.7 / 1.3	3320	2	85	53	7 7/8	16 7/16	9 1/4	28
	KTVE21.5	2	208 / 230 / 460 / 575	6.0 / 5.4 / 2.7 / 2.1	3440	2	111	69	9 7/16	16 3/4	10 1/2	48
	KTVE22.2	3	208 / 230 / 460 / 575	8.2 / 7.4 / 3.7 / 2.9	3440	2	130	85	9 7/16	16 3/4	10 1/2	55
	KTVE33.7	5	208 / 230 / 460 / 575	14.2 / 12.6 / 6.3 / 5.0	3450	3	217	94	11 1/4	23 1/16	12 7/8	88

KRS

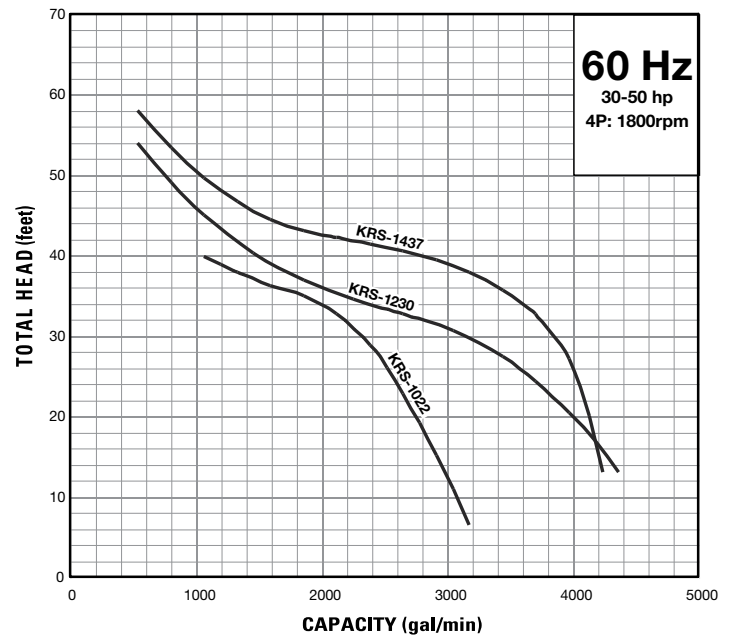
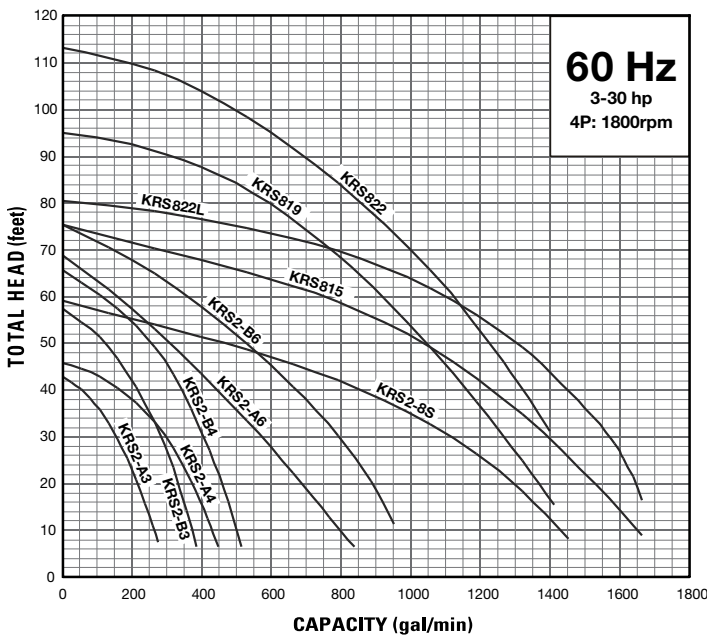
High volume, extra durable pump available in a variety of sizes



Material

Impeller:	Ductile or High Chrome
Casing:	Cast Iron
Mechanical Seal:	Silicon Carbide
Motor Frame:	Cast Iron
Shaft:	420 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	Chloroprene Sheath

Performance Curves



KRS pumps provide high volume performance and extended pump life!

Features

- High Pump Volume
- 4 Pole, 1800 RPM Motors •
6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **KRS series** offers longer wear life on parts due to the slower impeller tip speed provided by 4-pole, 1800 RPM / 6-pole, 1200 RPM motors. Reducing impeller speed by half will extend your parts wear life by at least 2 to 3 times.

The iron construction of the KRS series extends the life of the pump. To prevent premature wear and failure from abrasive materials, Tsurumi's dual inside mechanical seals are completely isolated in an oil chamber with an extra lip seal to protect mechanical seals from the pumped liquid.

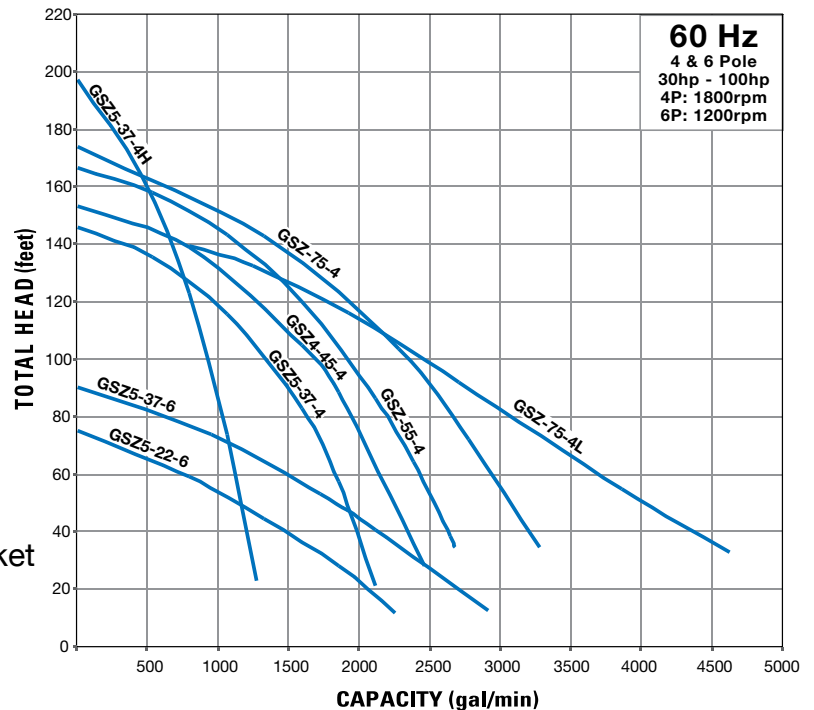
The KRS series exemplifies Tsurumi's design for multi-purpose pumps to fit a wide variety of applications due to their simple construction, superb durability and high efficiency.

KRS SERIES

MODEL	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
								Diameter	Height		
KRS2-A3	3	208-230 / 460 / 575	9.4-8.6 / 4.3 / 3.4	1700	3	276	43	13 3/8	23 5/8	5 3/4	159
KRS2-B3	5	208-230 / 460 / 575	15.0-13.8 / 6.9 / 5.5	1690	3	383	57	13 3/4	26 15/16	6 1/8	196
KRS2-A4	5	208-230 / 460 / 575	15.0-13.8 / 6.9 / 5.5	1690	4	450	46	13 3/4	26 15/16	6 1/8	194
KRS2-B4	7.5	208-230 / 460 / 575	21.4-19.6 / 9.8 / 7.6	1720	4	515	65	13 3/4	26 9/16	6 1/8	209
KRS2-A6	10	208-230 / 460 / 575	29.0-26.0 / 13.0 / 10.5	1730	6	819	69	16 5/16	27 13/16	6 7/8	286
KRS2-B6	15	208-230 / 460 / 575	42.0-39.0 / 19.5 / 14.5	1735	6	936	75	16 5/16	29 5/8	6 7/8	330
KRS2-8S	15	208-230 / 460 / 575	42.0-39.0 / 19.5 / 14.5	1735	8	1453	59	18 9/16	33 3/8	11 3/4	383
KRS815	20	208-230 / 460 / 575	57.0-50.0 / 25.0 / 20.0	1742	8	1638	75	18 15/16	38 12/16	10 7/8	520
KRS819	25	460 / 575	30.0 / 24.0	1758	8	1391	95	22 1/2	45 3/8	13 5/8	850
KRS822	30	460 / 575	35.5 / 29.0	1761	8	1365	113	22 1/2	45 3/8	13 5/8	860
KRS822L	30	460 / 575	35.5 / 29.0	1761	8	1664	80	22 1/2	45 3/8	13 5/8	860
KRS1022	30	460 / 575	38 / 31	1745	10	3170	40	20 1/2	49 15/16	17 3/4	990
KRS1230	40	460 / 575	53 / 43	1165	12	4359	54	26 3/8	55 1/4	18 7/8	1540
KRS1437	50	460 / 575	65 / 52	1165	14	4227	58	26 3/8	55 1/4	18 7/8	1650



Performance Curves



Material

- Impeller: High Chrome or Stainless Steel
- Casing: Cast Iron
- Mechanical Seal: Silicon Carbide
- Motor Frame: Cast Iron / Cooling Jacket
- Shaft: 420 Stainless Steel
- Fasteners: 304 Stainless Steel
- Cable: Chloroprene Rubber

GSZ dewatering pumps are designed to last in aggressive dewatering applications!

Features

- High Pumping Volume
- 4 Pole, 1800 RPM Motors
6 Pole, 1200 RPM Motors
- Lower Impeller Tip Speeds for Longer Life
- Rugged Iron Construction
- Anti-Wicking Cable Entrance
- Dual Silicon Carbide Mechanical Seals
- Tsurumi's Patented Oil Lifter
- Internal Thermal Motor Protection



The **GSZ series** is one of the most formidable high volume submersible dewatering pumps available. Reducing impeller speed by half will extend your parts wear life by at least 2-3 times. With impeller materials of High Chrome and Stainless Steel, the GSZ series tackles the most aggressive dewatering applications. The side discharge design allows a smooth passage of abrasive materials.

Tsurumi's exclusive Seal Pressure Relief Ports further protect the mechanical seals on the 4-pole, 1800 RPM models by providing a flow path above the pump casing to allow a release of water to flow from the pump and away from the shaft. The mechanical seals remain isolated in the oil chamber above this flow path and are protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of the mechanical seals in high pressure applications.

Extended operation at low water levels is made possible by utilizing a water jacket that surrounds the motor housing. A portion of the water is allowed to flow completely around the motor on its way to the side discharge. Air lock is prevented by an air-release valve at the top of the water jacket to allow air in the pump casing and water jacket to be displaced by water when the pump begins operation.

MODEL	MOTOR SPECIFICATIONS				PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
								Diameter	Height		
GSZ5-22-6	30	460 / 575	41 / 33	1160	8	2113	79	38	53 9/16	13 3/4	1670
GSZ5-37-4H	50	460 / 575	63 / 49	1750	6	1268	197	35 7/16	61 1/8	17 3/8	1380
GSZ5-37-4	50	460 / 575	63 / 49	1750	8	2113	143	36	62 5/16	18 7/8	1330
GSZ5-37-6	50	460 / 575	64 / 52	1160	8	2906	90	41 1/4	55 15/16	14 5/8	1590
GSZ4-45-4	60	460 / 575	76 / 63	1745	8	2457	153	36	62 5/8	18 1/8	1370
GSZ-55-4	75	460 / 575	92 / 74	1760	10	2695	167	41 5/16	68 1/4	20 1/8	2530
GSZ-75-4	100	460 / 575	128 / 103	1770	10	3434	174	41 5/16	68 1/4	20 1/8	2640
GSZ-75-4L	100	460 / 575	128 / 103	1770	*10	4621	139	41 5/16	70	28 3/4	2800

*With 1ft ANSI Flange

GSZ SERIES

Agitator Pumps

Available in:
HS(D), NK, KTV, and
KRS Series

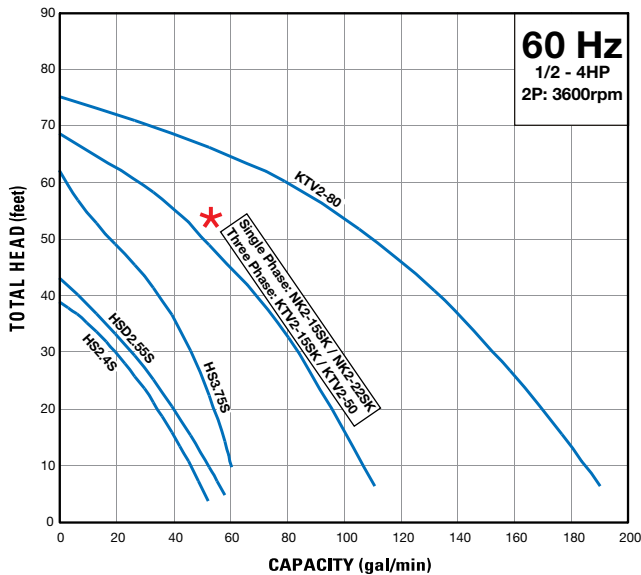
AGITATOR PUMPS

Tsurumi's agitator pumps are ideal for quarry and gravel pit drainage. Abrasive resistant three-phase and single-phase pumps are available with either cast iron or synthetic rubber casings, and come complete with high chrome agitators, impellers, and suction covers.



Performance Curves

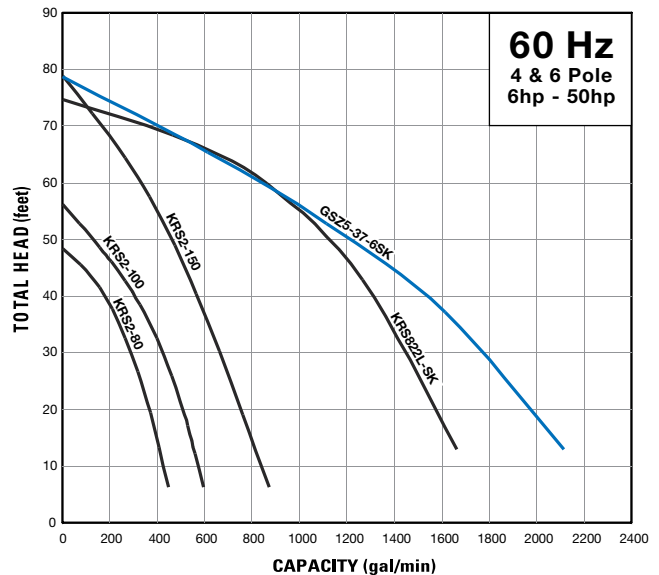
HS(D), NK and KTV Series



	Standard	High Torque
Single Phase	NK2-15SK 2HP (1.5kW)	NK2-22SK 3HP (2.2kW)
Three Phase	KTV2-15SK 2HP (1.5kW)	KTV2-50 2.7HP (2.0kW)

High Torque models further suitable for heavy duty application.

KRS, GSZ Series



MODEL	MOTOR SPECIFICATIONS					PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Phase	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
									Diameter	Height		
HS2.4S	1/2	Single	110 / 220	5.4 / 2.7	3320	2	53	39	10 1/16	12 15/16	3 1/2	25
HS3.75S	1	Single	115 / 230	9.6 / 4.6	3408	3	74	59	12 7/16	15 1/4	3 1/2	42
HSD2.55S	3/4	Single	115 / 230	7.5 / 4.0	3410	2	58	43	9 3/4	15 3/8	4 1/8	33
NK2-15SK	2	Single	*110 & *220	23.0 / 11.5	3440	3	111	69	9 13/16	26	4 3/4	71
NK2-22SK	3	Single	220	13.0	3465	3	111	69	9 13/16	26	4 3/4	71
KTV2-15SK	2	Three	208 / 230 / 460 / 575	6.0 / 5.4 / 2.7 / 2.1	3440	2	111	69	9 13/16	17 7/8	4 3/4	51
KTV2-50	2.7	Three	208 / 230 / 460 / 575	7.0 / 6.4 / 3.2 / 2.6	3440	2	111	69	9 13/16	17 7/8	4 3/4	55
KTV2-80	4	Three	208 / 230 / 460 / 575	11.6 / 10.6 / 5.3 / 4.2	3450	3	190	75	11 5/8	21 5/8	5 1/8	84
KRS2-80	6	Three	208-230 / 460 / 575	18.0-16.5 / 8.5 / 6.6	1720	3	449	49	13 3/4	30 3/16	9 7/8	231
KRS2-100	8	Three	208-230 / 460 / 575	25.0-23.0 / 11.5 / 9.2	1730	4	594	56	16 3/8	30 3/16	9 7/8	315
KRS-150	12	Three	208-230 / 460 / 575	36.0-33.0 / 16.5 / 13.2	1735	6	872	79	16 3/8	31 15/16	9 7/8	357
KRS822L-SK	30	Three	460 / 575	35.5 / 29.0	1761	8	1664	75	22 1/2	45 1/16	13 1/4	870
GSZ5-37-6SK	50	Three	460 / 575	64.0 / 51.5	1160	8	2114	79	29 1/2	63 1/4	21 7/8	1780

* Dual Voltage

LB/LBT

Portable slimline dewatering pump

Fits in **8-inch Pipe!**



Material

Impeller Type:	Semi-Vortex (LB-480/LB(T)-800) Semi-Open (LB(T)-1500)
Impeller Material:	Urethane Rubber (LB-480/LB(T)-800) High Chrome (LB(T)-1500)
Volute Casing Material:	Ethylene Propylene Rubber (LB-480) Butadiene Rubber and Natural Rubber (LB(T)-800/1500)
Wear Plate Material:	Urethane Rubber (LB-480/LB(T)-800) Butadiene Rubber and Natural Rubber (LB(T)-1500)
Shaft Seal:	Double inside mechanical seal with Silicone Carbide (All three series)

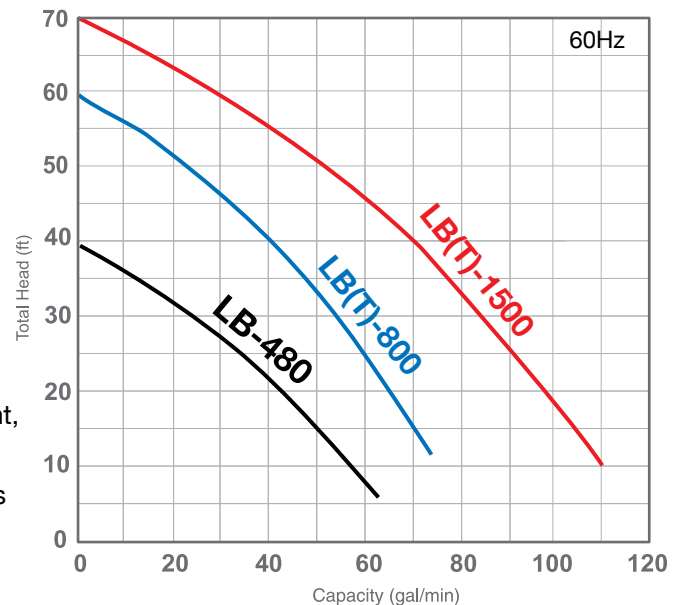
Features: LB-480, LB-800/LBT-800

- Built with durable materials and light weight for easy handling.
- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provides the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- Single-phase is available in automatic operation.

Features: LB-1500/LBT-1500

- Motor protector protects against overheating, over-current, and run-dry conditions.
- Double Inside Mechanical Seal with Silicon Carbide faces provide the longest operational life.
- Oil Lifter provides lubrication of the seal faces.
- High Chrome Iron Semi-Open Impeller resists wear from abrasive particles.
- Synthetic Rubber Pump Casing provides wear resistance and easy maintenance.
- Optional 2 inch discharge available for LB(T)-1500 series.

Performance Curves



MODEL	MOTOR SPECIFICATIONS					PUMP SPECIFICATIONS			DIMENSIONS		Continuous Running Water Level (in.)	Pump Weight (lbs.)
	Motor Output (HP)	Phase	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)			
									Diameter	Height		
LB-480	1/2	Single	110 / 220	6.1 / 3.05	3525	2	62.4	39.5	7 11/16	11 1/4	2	21
LB-800	1	Single	115 / 230	9.6 / 5.1	3300	2	73	59	7 9/16	13 7/16	2	29
LBT-800	1	Three	208-230 / 460 / 575	3.4-3.2 / 1.6 / 1.2	3388	2	73	59	7 9/16	13 7/16	2	28
LB-1500	2	Single	115 / 230	26.2 / 13.2	3480	3	111	69	7 3/8	23 5/16	3 1/8	72
LBT-1500	2	Three	208-230 / 460 / 575	7.2-8.0 / 4.0 / 2.9	3515	3	111	69	7 3/8	23 5/16	3 1/8	70

SFQ/SQ

Stainless Steel pumps



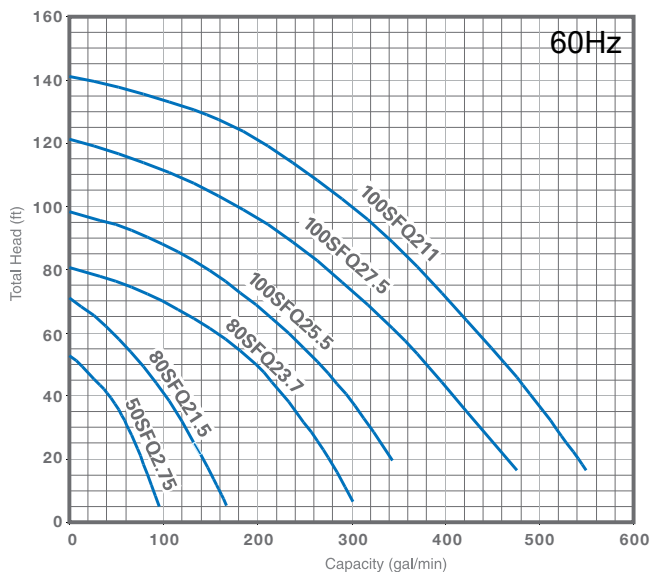
SFQ



Material

Impeller:	316 Stainless Steel
Casing:	316 Stainless Steel
Mechanical Seal:	Silicon Carbide
Motor Frame:	316 Stainless Steel
Shaft:	316 Stainless Steel
Fasteners:	316 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



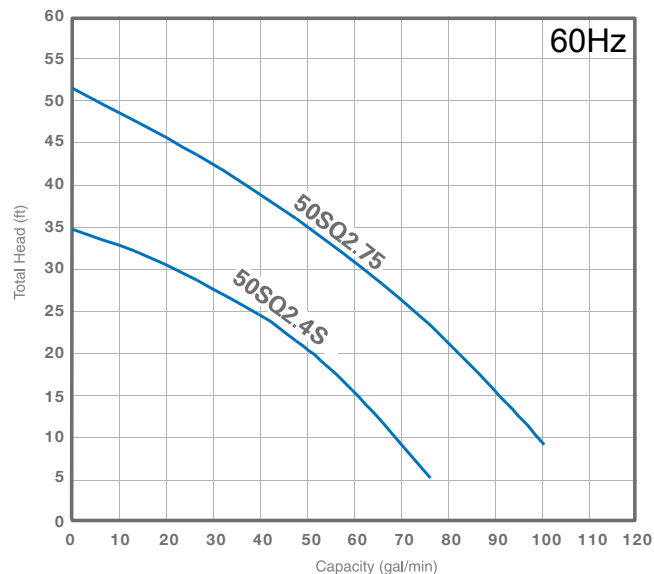
SQ



Material

Impeller:	304 Stainless Steel
Casing:	304 Stainless Steel
Mechanical Seal:	Silicon Carbide
Motor Frame:	304 Stainless Steel
Shaft:	304 Stainless Steel
Fasteners:	304 Stainless Steel
Cable:	PVC Sheath, Chloroprene Sheath

Performance Curves



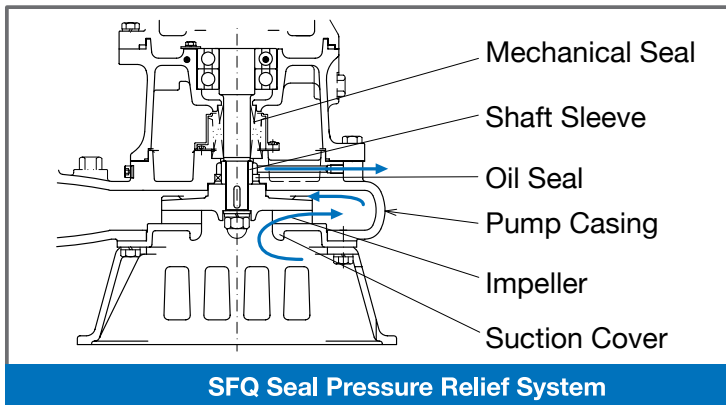
Stainless steel pumps are rust free and corrosive resistant!

Features: SFQ Series

- All wetted components are 316 Stainless Steel
- Viton elastomers
- Dual inside mechanical seals with Silicon Carbide faces, operate in an oil filled chamber and are protected by an exclusionary lip seal, providing the most durable seal available.
- Optional 316 SS Guide rail system is available for models from 7.5 - 15hp.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Seal pressure relief system features an independent chamber separate from the oil casing in which the mechanical seal is housed. (From 7.5 - 15hp)

Features: SQ Series

- All components including motor frame are made of SS 304 Stainless Steel.
- Non-toxic white mineral oil is used as the lubricant.
- The flow-through design and heat resistant Silicon Carbide Mechanical Seals assist in cooling in the event of run-dry situations.
- Built in motor protector senses excess heat and amperage draw built up in the motor.
- Semi-vortex, stainless steel impeller passes solids and stringy material without clogging and increases wear resistance when pumping abrasive particles.



MODEL	MOTOR SPECIFICATIONS					PUMP SPECIFICATIONS			DIMENSIONS			
	Motor Output (HP)	Phase	Voltages (V)	Rated Current (A)	RPM	Discharge Size (in.)	Maximum Capacity (GPM)	Maximum Head (ft.)	Dimension (in.)		Continuous Running Water Level (in.)	Pump Weight (lbs.)
									Diameter	Height		
SFQ SERIES												
50SFQ2.75	1	Three	208-230 / 460 / 575	3.5-3.1 / 1.6 / 1.3	3430	2	95	53	9 15/16	15 11/16	14 1/8	49
80SFQ21.5	2	Three	208-230 / 460 / 575	6.9-6.7 / 3.4 / 2.7	3450	3	165	71	12 15/16	19 1/16	16 3/8	79
80SFQ23.7	5	Three	208-230 / 460 / 575	13.8-12.8 / 6.4 / 5.0	3410	3	301	81	14 1/8	21 5/16	19 1/2	115
100SFQ25.5	7.5	Three	208-230 / 460 / 575	19.3-18.2 / 9.4 / 7.5	3545	4	343	98	25 3/8	33 1/4	27 1/8	278
100SFQ27.5	10	Three	208-230 / 460 / 575	26.0-24.4 / 12.2 / 9.5	3545	4	476	122	25 3/8	33 1/4	27 1/8	276
100SFQ211	15	Three	208-230 / 460 / 575	37.0-35.2 / 17.6 / 1 3.9	3525	4	550	141	25 3/8	35 1/8	28	320
SQ SERIES												
50SQ2.4S	1/2	Single	115 / 230	6.5 / 3.4	3376	2	76	35	7 1/16	14 5/16	2 3/8	28
50SQ2.75	1	Three	208-220 / 460	3.5-3.4 / 1.6	3349	2	100	51	7 1/16	15 1/8	2 3/8	33

EPT4

Heavy Duty Prime Assisted Trash Pump

EPT4 SERIES



EPT4-150DPJD: Priming assisted



EPT4-150DPQJD: Sound attenuated priming assisted



EPT4-150DPSJD: Skid mount priming assisted

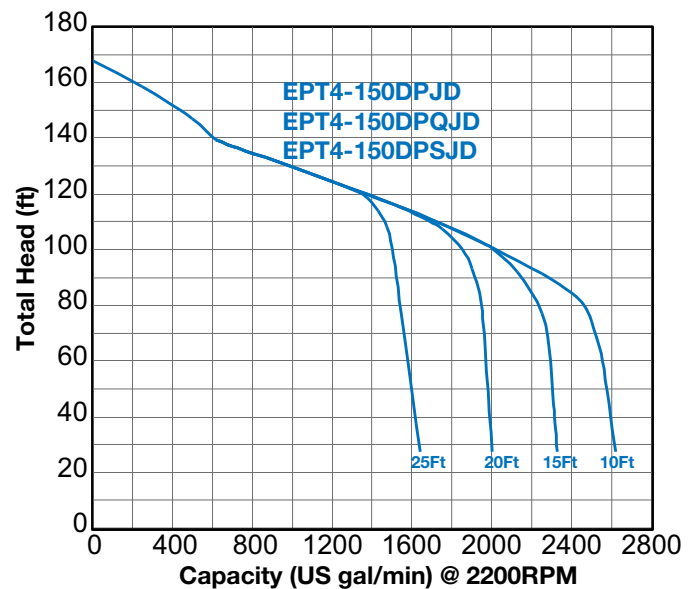
Material

Impeller Type:	Fully Enclosed
Impeller Material:	Cast Iron
Volute Casing Material:	Cast Iron
Wear Plate / Ring Material:	Cast Iron
Pump Casing Material:	Cast Iron
Shaft Seal:	Tungsten Carbide Silicone Carbide

EPT4-150DP(Q)(S)JD Features

- Prime assisted pump utilizes venturi system for priming.
- John Deere diesel engine, and water cooled.
- Passes 3 inch spherical solids.
- Mechanical seal is tungsten and silicon carbide seal faces, viton elastomers, 303 stainless steel hardware and spring. Seal system designed for dry running.
- Heavy duty road trailer.
- EPT4-150DPQJD: Capable of quiet operation.

Performance Curve



Model	PUMP SPECIFICATIONS				ENGINE SPECIFICATIONS				DIMENSIONS			
	Discharge Size (inch)	Maximum Capacity (gpm)	Maximum Head (feet)	Engine	Output (hp)	Fuel	Fuel Tank Capacity (gal)	Starting Method	Length (inch)	Width (inch)	Height (inch)	Weight (lbs.)
EPT4-150DPJD Standard				John Deere			60		136 1/2	67	67 7/8	3360
EPT4-150DPQJD Sound Attenuated	6	2400	160	4045TF290	74	Diesel	130	Electric, 12V	161 1/2	76 1/8	79 13/16	4800
EPT4-150DPSJD Skid Mount							120		100	42	49 1/2	2900

Accessories

CONTROL PANELS

Automatic Control Panels

- UL Listed Nema 4X Fiberglass Enclosure
- HOA Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Includes (2) 50" Mechanical Floats



Manual Control Panels

- UL Listed
- Hand/Off Lockable Selector Switch
- IEC Rated Magnetic Contactor
- Field Adjustable Overload Protection
- Nema 4X Fiberglass Enclosure



MOISTURE DETECTOR



The **TSMP SEAL MOISTURE PROBE** is designed to detect moisture in the mechanical seal chamber, alerting customers of potential motor failure. The **TSMP SEAL MOISTURE PROBE** can be field installed on new or existing Tsurumi pump models and connected to the control panel for the appropriate alarm or notification.

Principle of Operation:

Sensor is installed through the oil port and directly into the mechanical seal chamber which contains an electrically non-conductive oil. The presence of water changes the chamber fluid mixture to a conductive condition and therefore completes the circuit which will result in a leakage indication on the control panel.

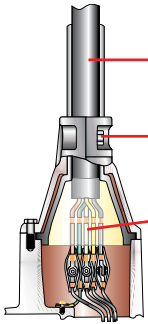
Electrical Specification

Sensor Type: Conductive
Suggested Seal Fail Relay Voltage: 24VAC
Required Wiring:

Single wire in separate sensor cable to be connected to seal leak relay in control panel by customer.



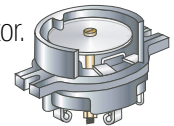
TSURUMI PUMP **SUPERIOR DESIGN & TECHNOLOGY**



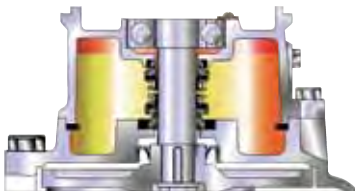
- Anti-Wicking Cable Entrance** Maximum protection against water incursion through the cable entry.
- Molded Cable Boot or Cable Protection Tube - extends cable bending radius, prevents abrading, and reduces fatigue.
 - Cable Gland - provides 360 degree compression of cable boot, protection tube or cable bush for a water tight fit.
 - Anti-Wicking Block - window cuts on conductor insulation expose strands to molded rubber or epoxy to prevent water wicking through the strands and entering the motor providing protection even if the cable insulation is cut.

Internal Thermal Motor Protection Built-in motor protection reacts to ambient temperatures the motor is actually experiencing - unlike external overloads that react to ambient conditions in the control panel.

Circle Thermal Protector (CTP) - for pumps with 1-30HP: 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.



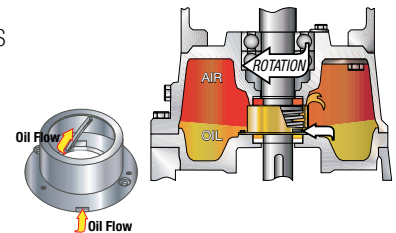
Miniature Thermal Protector (MTP) - for pumps with 40HP and over: One MTP per winding, reacts to excessive heat. Connected in series, if one winding overheats power is cut-off to all windings. Wire in series with motor control circuit for auto-restart or to independent relay for manual reset.



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 (Patented) Tsurumi's exclusive 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.



Pressure Relief Ports Tsurumi's exclusive Seal Pressure Relief Ports protect the mechanical seal on our high head pumps. A flow path above the pump casing allows a release of water to flow from the pump and away from the shaft. The mechanical seals remain isolated in the oil chamber above this flow path and therefore are exposed only to the sump submergence pressure. The seals are protected from any excessive pumping pressure or water hammer that may cause premature wear or failure of the mechanical seals in high head pumping applications.



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