TSURUMI PUMP
www.tsurumi-global.com

CONSTRUCTION & MINING

SUBMERSIBLE DEWATERING PUMPS

Heavy-duty, Excellent Durability and Reliability – Tsurumi Quality

Tsurumi's submersible pumps are designed and developed along the user's line of sight, which is why they are known for their sound quality, durability, ease of maintenance and a high degree of reliability that enables continuous duty over long periods of use.

As a subcategory thereof, Tsurumi has been manufacturing and selling construction and mine dewatering pumps for over 50 years. Here, repeated bench and field testing under harsh conditions have led to a plethora of technologies and valuable know-how that Tsurumi has used to improve durability and maintainability for the rental, construction and mining markets where severe environments demand nothing short of heavy-duty hardware.

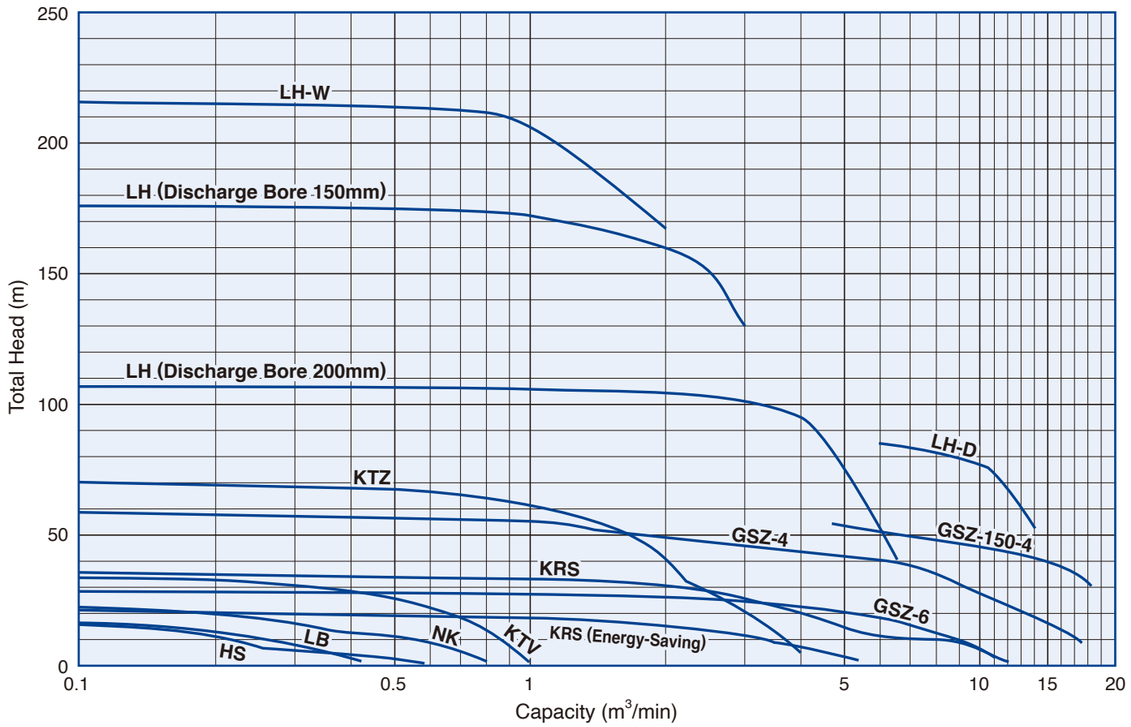
Tsurumi's pumps come in a wide range of sizes from compact packages for household use to midsize and large configurations that better serve construction, tunnel works and mines. Available in an extensive lineup of over 150 pump models of motor outputs (0.1 - 150 kW) and discharge bores (15 - 250 mm), these pumps are suited for a wide range of applications besides general pumping and drainage, including slurries, residues and much more difficult-to-handle media like seawater, high temperature liquids and corrosive liquids. Moreover, Tsurumi has many models capable of turning on/off automatically by way of electrodes or float switches, which contributes to field and environmental management by conserving power and prolonging pump service-life.

Designed in Japan, Tsurumi's submersible pumps come loaded with original technologies tested and proven over the years such as the anti-wicking cable, motor protector, dual inside mechanical seals with silicon carbide faces, Oil Lifter and more. In addition, for the sake of durability, wear-resistant materials are adopted for parts that tend to wear down more easily, paving the way for continuous duty over extended periods of time.

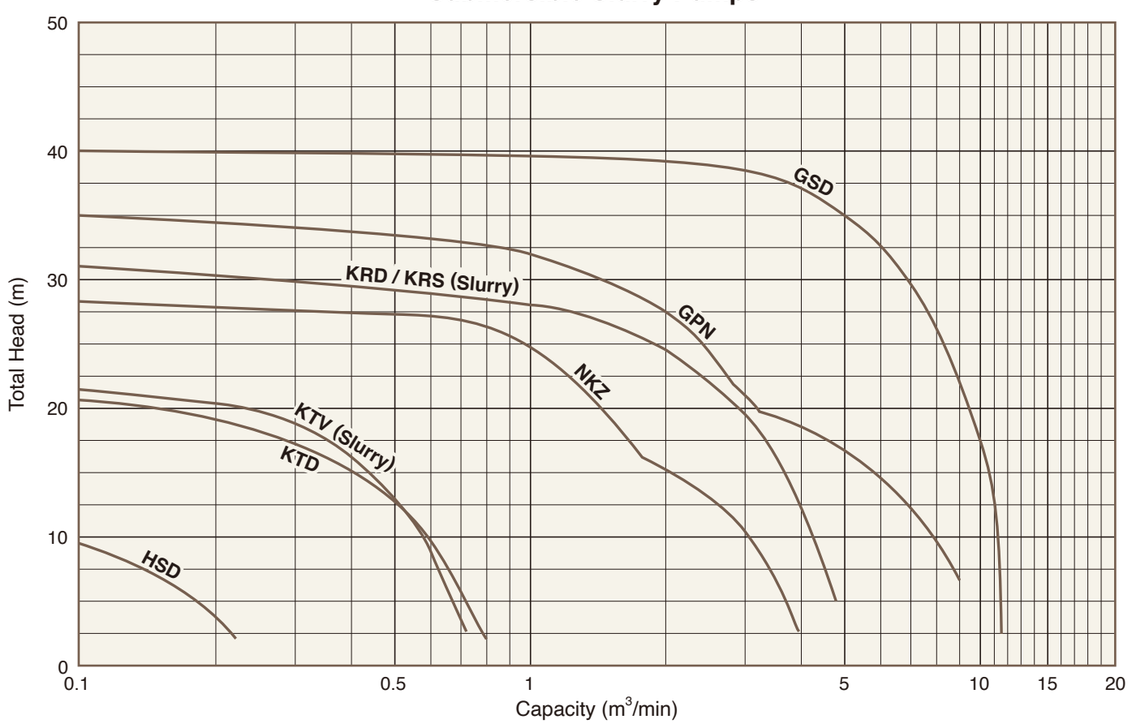
Because of these qualities, Tsurumi's pumps are put to use in a broad range of fields from civil engineering and construction sites that require high reliability to mines and larger scale project sites for tunnels, bridges, dams and so forth, as well as infrastructure for temporarily bypassing sewerage or draining rainwater to avert flooding.

Performance Range

Submersible Drainage Pumps



Submersible Slurry Pumps



Selection Table

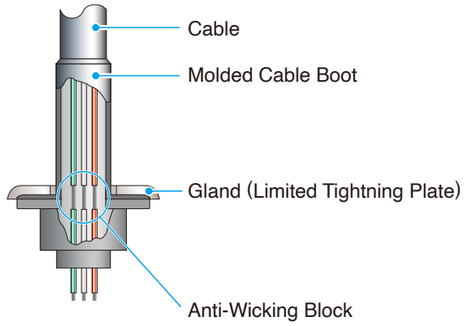
	Series	Discharge Bore mm	Motor Output kW	No. of Poles	Discharge Design: Top Discharge: Flow-Thru	Discharge Design: Top Discharge: Side Flow	Discharge Design: Side Discharge	Agitator	Automatic Operation
Drainage	Small Size	**LB / LB-A**	50 (80)	0.48 - 1.5	2	●				Electrode (LB-A)
		HS / HSZ	50 • 80	0.4 • 0.75	2			●	●	Float (HSZ)
		FAMILY / FAMILY-A	15, 25	0.1	2	●				Cylindrical Float (FAMILY-A)
	Medium Size	**NK**	50 • 80	1.5 • 2.2	2		●			
		KTV / KTVE	50 • 80 (100)	0.75 - 5.5	2		●			Electrode (KTVE)
		KTZ / KTZE	50 - 150	1.5 - 22	2		●			Electrode (KTZE)
	High Head	**LH**	80 - 200	3 - 110	2	●				
		LH-W	50 - 100	3 - 110	2	●				
		LH-D	250 • 300	110 • 185	2	●				
		Tandem Operation	50 - 100	3 - 30	2	●				
	High Volume	**KRS**	80 - 250	2.2 - 22	4	● (KRS1022)	●			
		KRS (Energy-Saving)	100 - 200	3 - 9	4		●			
	Sewer Bypass	**KRSU**	200	22	4		●			
	High Head & High Volume	**GSZ-4**	150 - 250	37 - 150	4			● (Water Jacket)		
	High Power	**GSZ-6**	200	22 • 37	6			● (Water Jacket)		
Slurry	Small Size	**HSD**	50	0.55	2			●	●	
	Medium Size	**KTV (Slurry)**	50 • 80 (100)	2 • 3	2		●		●	
		KTD	50 • 80	2.2 • 3.7	2		●		●	
		KRD / KRS (Slurry)	80 - 200	5.5 - 18	4		●		●	
		NKZ	80 - 150	2.2 - 11	4			● (Water Jacket)	●	
	High Power	**GPN**	80 - 200	5.5 - 37	4 • 6			● (Water Jacket)	●	
	High Volume	**GSD**	200 • 250	37 - 75	4			● (Water Jacket)	●	
Corrosion-Resistant		**SFQ**	50 • 80	0.4 - 11	2			●		
		LH-14 • LH-W-14	80 - 200	11 - 110	2	●				
Residue Drainage		**HSR**	50	0.4	2			●		
		LSC	25 • 50	0.48 • 0.75	2	●				
		LSP	25	0.48	2	●				

* The cutaway pictures are pumps for the European specifications.
  The pumps of the standard specifications are different shape of a handle and hose coupling.
  Picture of actual pumps, refer to each individual page.

Structure

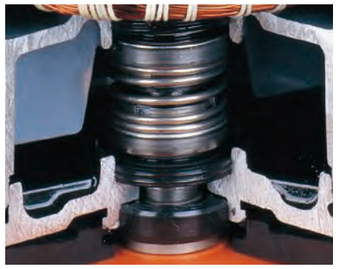
Anti-Wicking Cable Entry

An anti-wicking block is provided at the cable entry section of the motor chamber. Even if the cable jacket becomes damaged or the tip of the cable is accidentally immersed in water, this device prevents water from traveling into the motor chamber through capillary action.



Dual Inside Mechanical Seal

A dual inside mechanical seal, located in the oil chamber together with the Oil Lifter, has two sealing faces made of quality materials, including silicon carbide (SiC). The advantages of this seal are two-fold; it eliminates spring failure caused by corrosion, abrasion or fouling, which can prevent the seal faces from closing properly, and prevents loss of cooling to the lower seal faces during run-dry conditions, which causes the lower seal faces to fail.



Automatic Motor Protection Device

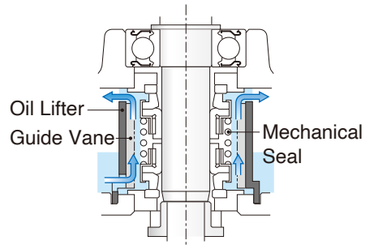
A built-in thermal motor protection device reacts to the excessive heat caused by overcurrent or run-dry conditions. It not only cuts off the motor circuit automatically but also resets by itself.

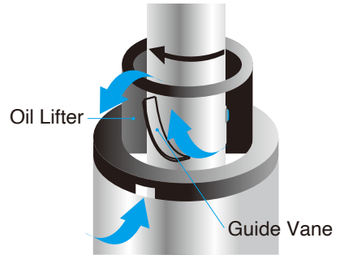
Miniature Thermal Protector

Circle Thermal Protector

Oil Lifter

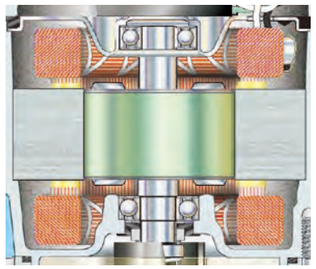
The Oil Lifter was developed as a lubricating device for the mechanical seal. Utilizing the centrifugal force of the shaft seal, the Oil Lifter forcibly supplies lubricating oil to the upper seal faces even if the lubricant falls below the specified volume. This amazingly simple device reliably lubricates and cools but also stabilizes the effect of the shaft seal and extends the length of the inspection period.





Bearings

High-grade bearings for high-temperature operation are used. Also, as deep-groove, double-shield ball bearings are used, and as the bearings are permanently lubricated by grease, there is no need for injection of lubricating oil.



High-Performance Motor

A motor having stable high performance that meets Tsurumi's high standards of quality is used.

Feature

Motor Cooling & Dicscharge Design

Top Discharge, Flow-Thru Design

This design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability, and also allows the shape of the pump to be cylindrical and slim for installation in a well casing for deep well dewatering.

LB | LB-A | FAMILY | FAMILY-A | LH | LH-W | LH-D | KRS*

*KRS1022 only

LH-14 | LH-W-14 | LSC | LSP

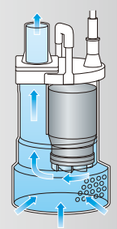
Top Discharge, Side Flow Design

This design assures efficient motor cooling even if the pump runs with its motor exposed to air, and also allows the overall diameter of the pump to be reduced for installation in confined spaces.

NK | KTV | KTVE | KTZ | KTZE | KRS* | KRSU

*excluding KRS1022

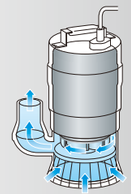
KTV(Slurry) | KTD | KRD / KRS(Slurry)



Side Discharge Design

The pump has a pump casing that facilitates smoother passage of foreign objects in the pumped liquid. It is a simple and practical design that facilitates inspection and repair work.

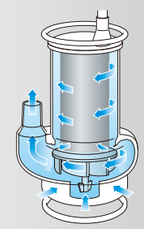
HS | HSZ | HSD | SFQ | HSR



Side Discharge Design with Water Jacket

The side discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket assuring efficient motor cooling even when the pump operates with its motor exposed to air.

GSZ-4 | GSZ-6 | NKZ | GPN | GSD



Automatic Operation

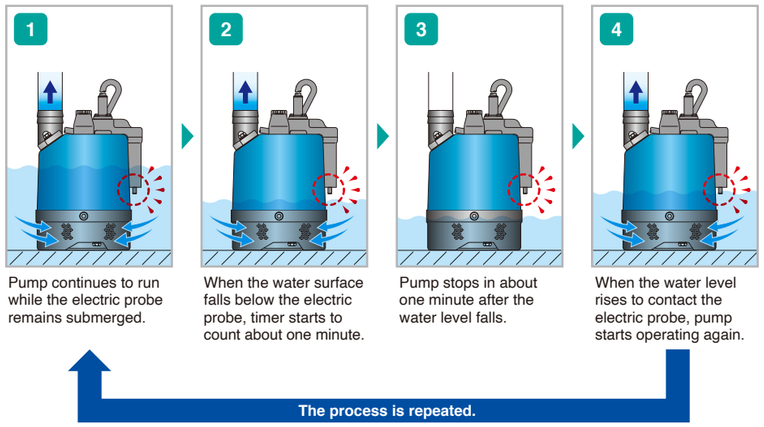
The automatic model only operates when sufficient water is present. It not only reduces power consumption but also extends the life of wear parts of the pump as it eliminates dry-running that causes early wear-out.

Electrode (LB-A / KTVE / KTZE)

ENERGY SAVING

Tsurumi has developed a unique automatic control device utilizing electrodes. The pump stops automatically in about one minute after the water surface falls below the electric probe.
Since this mechanism eliminates dry-running, the pump can reduce power consumption by up to 40 percent compared with non-automatic pumps (Tsurumi comparison). It also prevents chattering caused by a turbulent water surface and extends operating life.

Automatic Operation (LB-A / KTVE / KTZE)

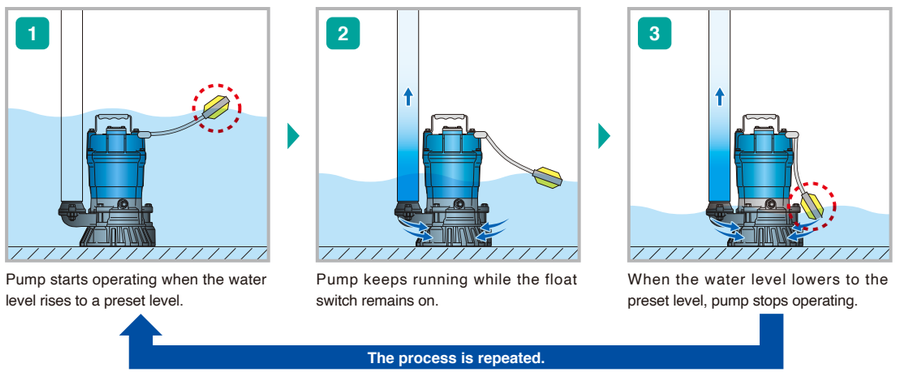


Electrode Type Automatic Operation Movie

Float Switch (HSZ / FAMILY-A)

This automatic operation system is controlled by a float switch. When the water level rises and raises the float switch to a preset level, the switch turns on, and the pump starts. When the water level lowers to the preset level, pump operation stops.

Automatic Operation (HSZ)



Single-phase Portable Drainage Pumps

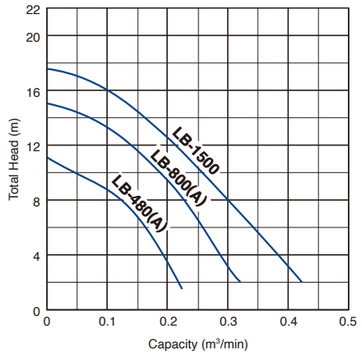
LB
LB-A

LB LB-A

(LB-A : Automatic pump with electrode)

Model		Discharge Bore mm	Motor Output kW	Dry Weight kg		Dimensions mm		
						L		H
Standard	Automatic			Standard	Automatic	Standard	Automatic	
LB-480	LB-480A	50	0.48	10.4	11	189	223	286
LB-800	LB-800A	50(80)	0.75	13.1	13.7	186	223	341
LB-1500	—	50(80)	1.5	33	—	187	—	593

- Tsurumi typical pumps
- Multi-directional hose coupling (vertical and inclined)
- Automatic model with electrode type relay unit **[LB-A]**



Single-phase Portable Drainage Pumps

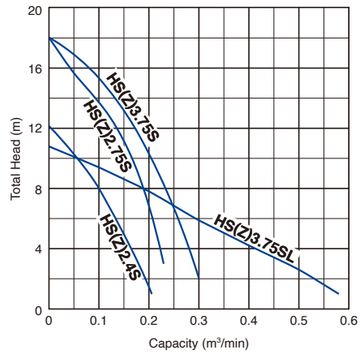
HS
HSZ

HS HSZ

(HSZ : Automatic pump with float)

Model		Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
					L	H
Standard	Automatic					
HS2.4S	HSZ2.4S	50	0.4	11.3	241	328
HS2.75S	HSZ2.75S	50	0.75	16.4	285	394
HS3.75S	HSZ3.75S	80	0.75	16.8	285	394
HS3.75SL	HSZ3.75SL	80	0.75	19.6	288	425

- Multi-field use pumps with agitator
- Automatic model with single float switch **[HSZ]**



Single-phase Portable Drainage Pumps

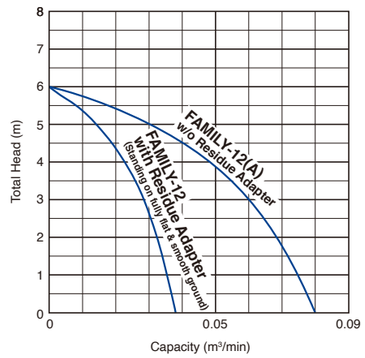
FAMILY
FAMILY-A

FAMILY FAMILY-A Residue Adapter

(FAMILY-A : Automatic pump with float)

Model		Discharge Bore mm	Motor Output kW	Dry Weight kg		Dimensions mm		
						L		H
Standard	Automatic			Standard	Automatic	Standard	Automatic	
FAMILY-12	FAMILY-12A	15, 25	0.1	3.4	3.6	157	201	256

- Suitable for domestic use
- Automatic model with cylindrical float switch **[FAMILY-A]**
- Drain water to 1 mm in depth by attaching optional residue adapter **[FAMILY]**

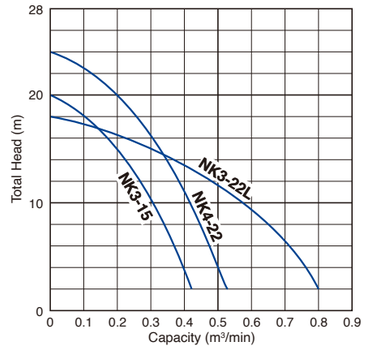


Single-phase Portable Drainage Pumps

NK

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
NK3-15	50	1.5	29	243	614
NK4-22	50	2.2	29	243	614
NK3-22L	80	2.2	40	236	669

- Larger output motor
- Durability equivalent to three-phase drainage pumps



Three-phase Portable Drainage Pumps

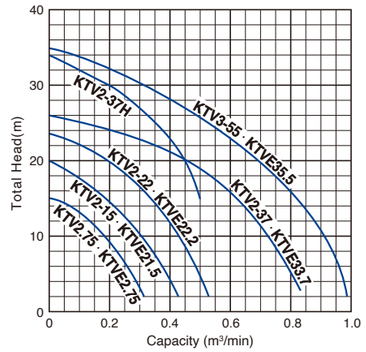
KTV
KTVE

KTV KTVE

(KTVE : Automatic pump with electrode)

Model		Discharge Bore mm	Motor Output kW	Dry Weight kg		Dimensions mm		
						L	H	
Standard	Automatic			Standard	Automatic		Standard	Automatic
KTV2.75	KTVE2.75	50	0.75	12.5	13.3	200	374	422
KTV2-15	KTVE21.5	50(80)	1.5	21	22	240	392	462
KTV2-22	KTVE22.2	50(80)	2.2	23	25	240	412	462
KTV2-37H	—	50	3.7	36	—	285	510	—
KTV2-37	KTVE33.7	80(100)	3.7	36	40	285	510	585
KTV3-55	KTVE35.5	80(100)	5.5	47	52	300	545	620

- Lightweight compact pumps made of die-casted aluminium alloy
- Automatic model with electrode type relay unit **[KTVE]**



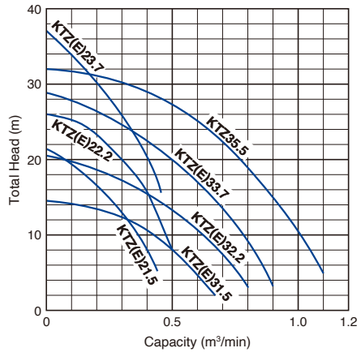
Three-phase Drainage Pumps

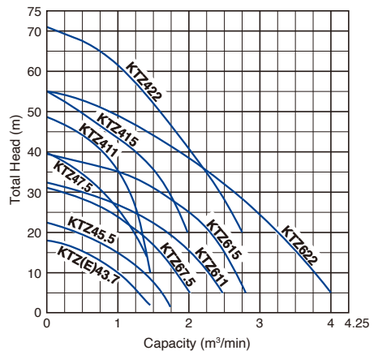
KTZ
KTZE

KTZ KTZE

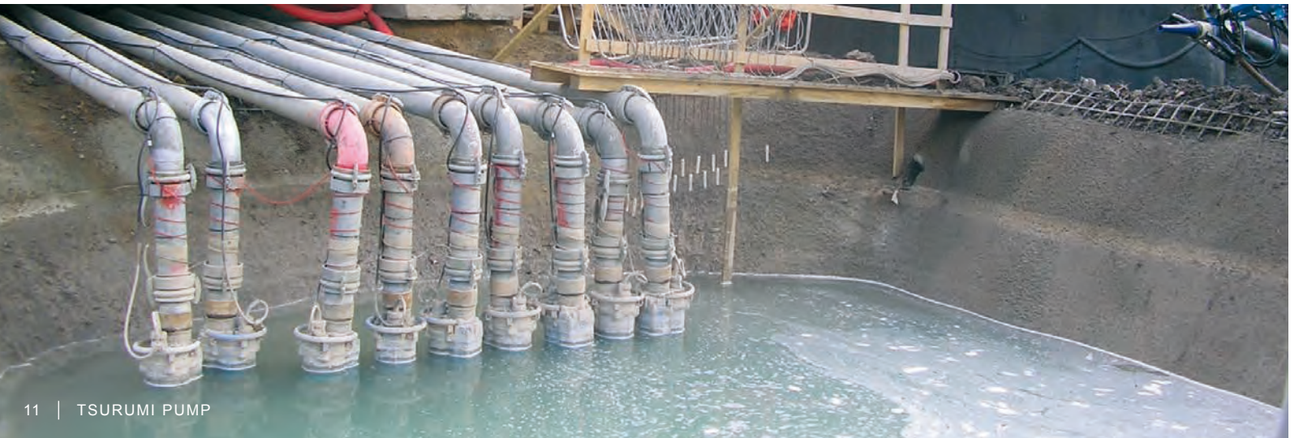
(KTZE : Automatic pump with electrode)

- Tsurumi flagship line of heavy-duty cast iron pumps
- Multi-directional hose coupling (vertical and inclined)
- Automatic model with electrode type relay unit **[KTZE]**





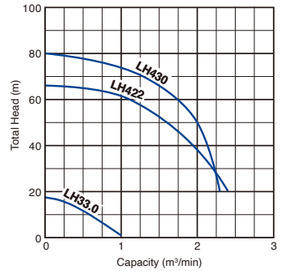
Model		Discharge Bore mm	Motor Output kW	Dry Weight kg		Dimensions mm		
						L	H	
Standard	Automatic			Standard	Automatic		Standard	Automatic
KTZ21.5	KTZE21.5	50	1.5	34	39	235	548	628
KTZ22.2	KTZE22.2	50	2.2	35	41	235	568	648
KTZ23.7	KTZE23.7	50	3.7	60	69	283	675	755
KTZ31.5	KTZE31.5	80	1.5	33	38	235	548	628
KTZ32.2	KTZE32.2	80	2.2	34	40	235	568	648
KTZ33.7	KTZE33.7	80	3.7	60	69	283	675	755
KTZ35.5	—	80	5.5	74	—	306	719	—
KTZ43.7	KTZE43.7	100	3.7	60	69	283	690	770
KTZ45.5	—	100	5.5	74	—	306	734	—
KTZ47.5	—	100	7.5	101	—	330	812	—
KTZ411	—	100	11	130	—	374	864	—
KTZ415	—	100	15	146	—	374	934	—
KTZ422	—	100	22	295	—	528	1200	—
KTZ67.5	—	150	7.5	100	—	361	875	—
KTZ611	—	150	11	131	—	374	884	—
KTZ615	—	150	15	147	—	374	954	—
KTZ622	—	150	22	296	—	558	1220	—

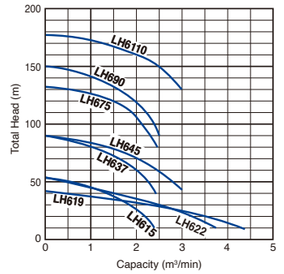


High Head Drainage Pumps

LH (Single Impeller)

- Extensive lineup of motor outputs ranging from 3 to 110 kW
- Lineup of pumps with high head in consideration of discharge volume

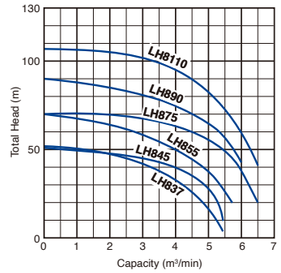




Extra High Head Drainage Pumps

LH-W (Dual Impellers)

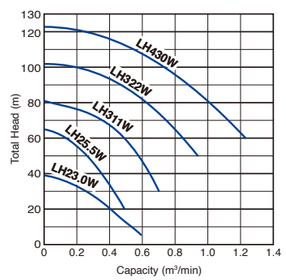
- Offering 39 to 216 m max. head
- Comprised of dual impellers for extra high head pumping

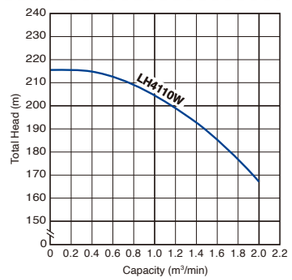


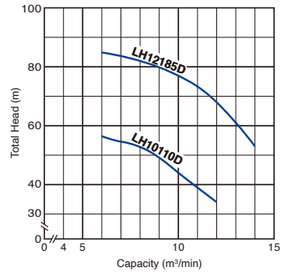
High Volume & High Head Drainage Pumps

LH-D (Double Suction Impeller)

- Equipped with 110 kW/185 kW motor and double-suction impeller for high volume and high head performance
- Suitable for open-pit/underground mining, heap leaching and large-scale tunneling work







LH

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LH33.0	80	3	42	185	645
LH422	100	22	350	420	1352
LH430	100	30	355	420	1352
LH615	150	15	213	330	1014
LH619	150	19	350	420	1423
LH622	150	22	360	420	1423
LH637	150	37	495	530	1448
LH645	150	45	510	530	1448
LH675	150	75	850	563	1676
LH690	150	90	1100	592	1787
LH6110	150	110	1210	616	1887
LH837	200	37	495	530	1488
LH845	200	45	510	530	1488
LH855	200	55	820	563	1716
LH875	200	75	865	563	1716
LH890	200	90	1150	592	1787
LH8110	200	110	1210	616	1887

LH-W

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LH23.0W	50	3	46	185	630
LH25.5W	50	5.5	80	244	750
LH311W	80	11	130	270	1024
LH322W	80	22	304	330	1235
LH430W	100	30	324	365	1375
LH4110W	100	110	1270	616	1825

LH-D

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LH10110D	250	110	1450	699	1853
LH12185D	300	185	1950	773	2008

Extra High Head Drainage Pumps by Tandem

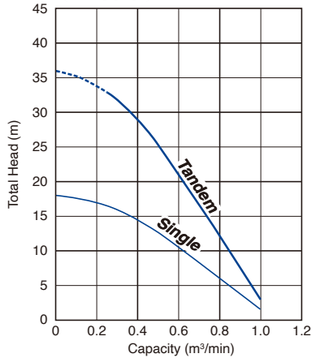
Tandem Operation
-LH · LH-W-

"Tandem operation" is an operation method that connects two pumps of the same model in series. This provides double pump head at the same flow rate in comparison with that of a single pump. The principle of tandem operation is the same as that with multistage pumps.

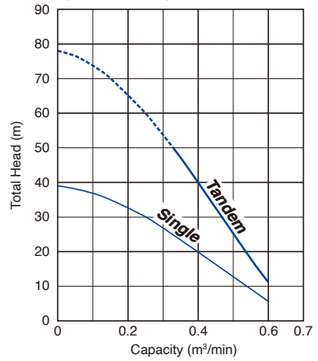
Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LH33.0	80	3	54	185	731
LH23.0W	50	3	59	185	759
LH25.5W	50	5.5	96	254	808
LH311W	80	11	125	270	1043
LH322W	80	22	365	330	1255
LH430W	100	30	389	365	1400

The intermediate connection pipe is not required in the range indicated as a bold line on curves.
If the required total head exceeds the maximum head of the pump without an intermediate connection pipe (indicated as dashed line), an intermediate connection pipe of a length corresponding to the excess amount or more is required.

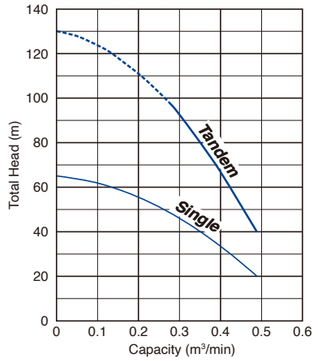
< LH33.0 >



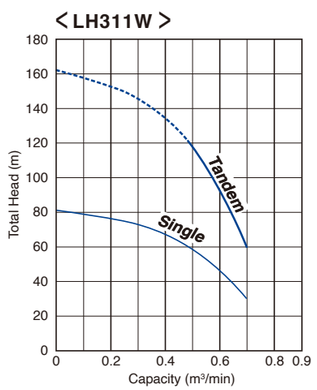
< LH23.0W >



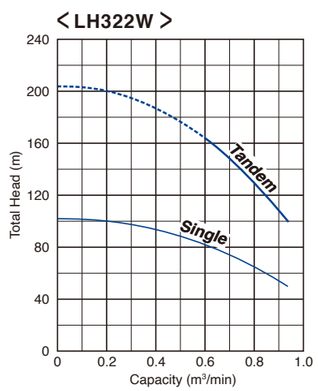
< LH25.5W >



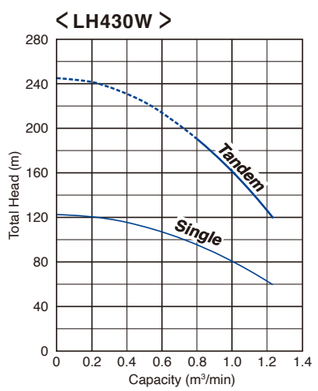
< LH311W >



< LH322W >



< LH430W >

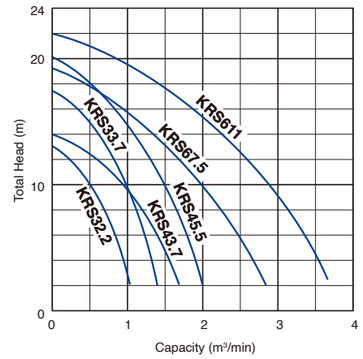


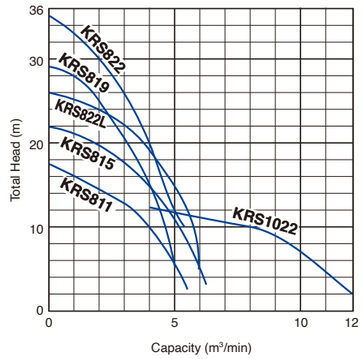
High Volume Drainage Pumps

KRS

- General-purpose heavy-duty cast iron pumps
- Suitable for high volume pumping

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KRS32.2	80	2.2	72	340	622
KRS33.7	80	3.7	91	362	707
KRS43.7	100	3.7	88	349	722
KRS45.5	100	5.5	100	364	747
KRS67.5	150	7.5	141	418	866
KRS611	150	11	163	436	875
KRS811	200	11	179	473	993
KRS815	200	15	240	481	1069
KRS819	200	18.5	360	576	1241
KRS822	200	22	380	576	1241
KRS822L	200	22	380	576	1241
KRS1022	250	22	390	525	1419



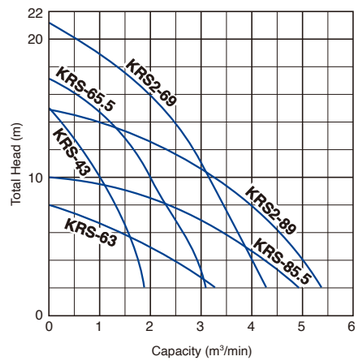


High Volume Drainage Pumps

KRS (Energy-Saving)

- General-purpose heavy-duty cast iron pumps
- Energy-saving type of low output and low head reduces power consumption

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KRS-43	100	3	95	378	723
KRS-63	150	3	97	384	866
KRS-65.5	150	5.5	118	425	790
KRS2-69	150	9	155	490	812
KRS-85.5	200	5.5	126	446	941
KRS2-89	200	9	175	473	933

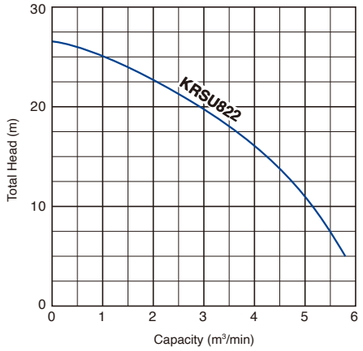


Drainage

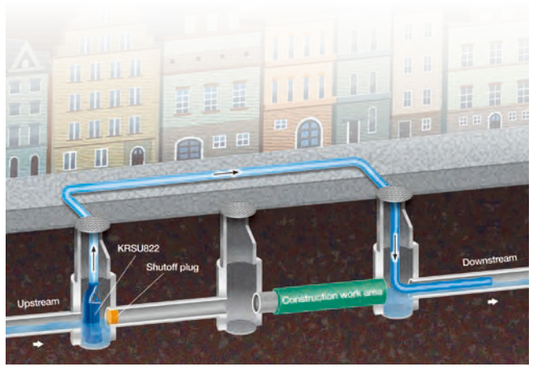
Submersible Pump for Sewage Bypass

KRSU

- Submersible pump for provisional sewage bypass between manholes
- Suitable for temporarily bypassing drainage in sewer construction work



Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KRSU822	200	22	430	546	1486

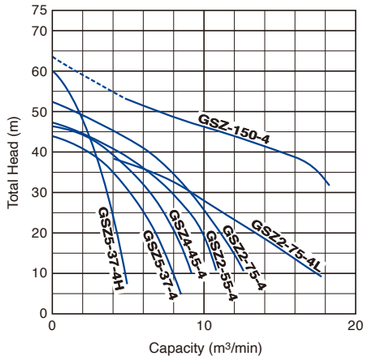


High Head & High Volume Drainage Pumps

GSZ-4

- Heavy-duty high head, high volume drainage pumps with internal 4 pole motor
- Water jacket for forcibly cooling the motor at low water level

It is not recommended to operate the unit continuously along the dashed curve.

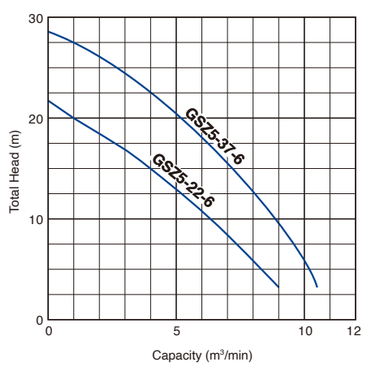


Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
GSZ5-37-4H	150	37	595	900	1553
GSZ5-37-4	200	37	566	915	1583
GSZ4-45-4	200	45	583	915	1591
GSZ2-55-4	250	55	1091	1050	1927
GSZ2-75-4	250	75	1141	1050	1927
GSZ2-75-4L	250	75	1200	1050	1972
GSZ-150-4	250	150	2315	1218	2420

High Volume Drainage Pumps

GSZ-6

- Heavy-duty high volume drainage pumps with internal 6 pole motor
- Capable of discharging slurries laden with silt, earth, sand or other particulate
- Water jacket for forcibly cooling the motor at low water level



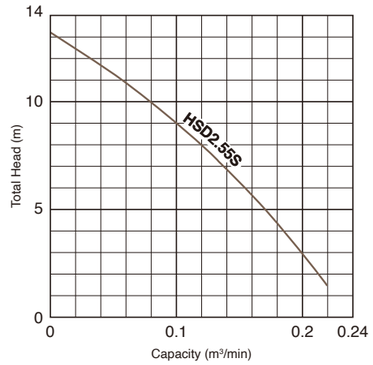
Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
GSZ5-22-6	200	22	685	965	1360
GSZ5-37-6	200	37	796	1047	1421

Slurry

Single-phase Portable Slurry Pump

HSD

- Equipped with high-chromium cast iron impeller and agitator

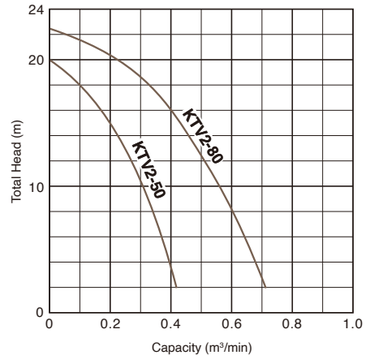


Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
HSD2.55S	50	0.55	14	241	391

Three-phase Portable Slurry Pumps

KTV (Slurry)

- Lightweight compact pumps made of die-casted aluminium alloy
- Equipped with high-chromium cast iron impeller and ductile cast iron agitator

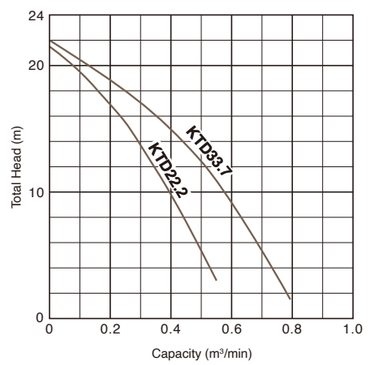


Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KTV2-50	50(80)	2	25	250	450
KTV2-80	80(100)	3	38	295	550

Three-phase Portable Slurry Pumps

KTD

- Heavy-duty cast iron pumps
- Equipped with high-chromium cast iron impeller and ductile cast iron agitator

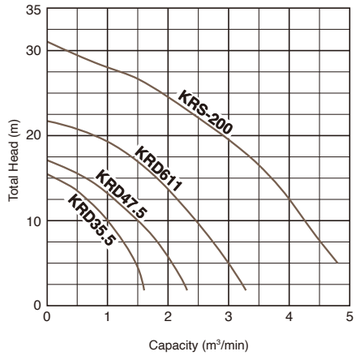


Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KTD22.2	50	2.2	38	235	550
KTD33.7	80	3.7	65	297	644

Slurry Pumps

KRD
KRS(Slurry)

- Heavy-duty cast iron pumps
- Equipped with high-chromium cast iron impeller and agitator



Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
KRD35.5	80	5.5	107	351	838
KRD47.5	100	7.5	154	418	936
KRD611	150	11	175	436	961
KRS-200	200	18	395	576	1140

Slurry Pumps

NKZ

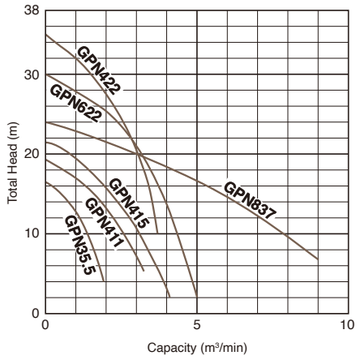
- Wide product lineup with agitator
- Water jacket for forcibly cooling the motor at low water level

Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
NKZ32.2	80	2.2	102	466	719
NKZ33.7	80	3.7	107	466	719
NKZ35.5	80	5.5	146	491	798
NKZ43.7	100	3.7	104	466	719
NKZ45.5	100	5.5	129	482	759
NKZ411	100	11	217	546	885
NKZ611	150	11	210	618	842

High Power Slurry Pumps

GPN

- High powered heavy-duty slurry pumps with internal 4 or 6 pole motor
- Chromium molybdenum steel shaft suitable for strong slurry
- Equipped with high-chromium cast iron impeller, suction plate and agitator
- Water jacket for forcibly cooling the motor at low water level

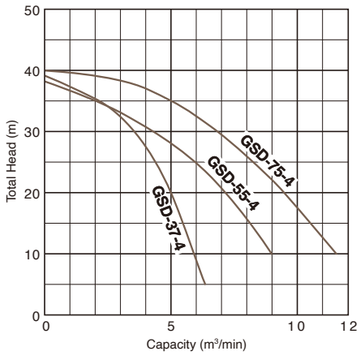


Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
GPN35.5	80	5.5	160	487	841
GPN411	100	11	239	617	924
GPN415	100	15	242	617	924
GPN422	100	22	410	725	1102
GPN622	150	22	415	725	1102
GPN837	200	37	815	1015	1606

High Volume Slurry Pumps

GSD

- Heavy-duty high head, high volume slurry pumps with internal 4 pole motor
- Equipped with high-chromium cast iron impeller and agitator



Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
GSD-37-4	200	37	685	915	1583
GSD-55-4	250	55	1220	1050	1927
GSD-75-4	250	75	1220	1050	1927

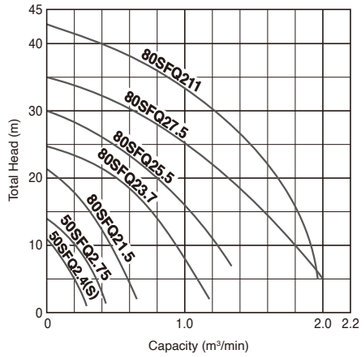
Corrosion-Resistant

Corrosion-resistant Pumps

SFQ

Strainer stand type　　Pump stand type

- Corrosion-resistant pumps made of 316 stainless steel casting
- Suitable for acidic, chemical fluids of low pH value
- Available in guide rail fitting system



Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
50SFQ2.4S	50	0.4	21	252	427
50SFQ2.4	50	0.4	20	252	398
50SFQ2.75	50	0.75	22	252	398
80SFQ21.5	80	1.5	36	329	484
80SFQ23.7	80	3.7	52	359	542
80SFQ25.5*	80	5.5	124	635	844
80SFQ27.5*	80	7.5	128	635	844
80SFQ211*	80	11	148	635	892

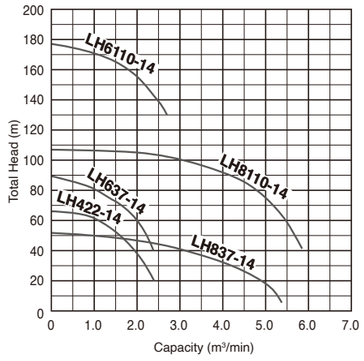
* The SFQ 5.5-11kW models are selectable from the strainer stand type or the pump stand type.

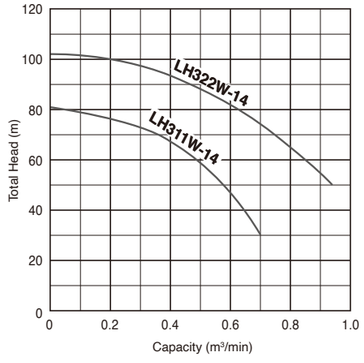
High Head Corrosion-resistant Pumps

LH-14
LH-W-14

LH-14　　LH-W-14

- Corrosion-resistant pumps made of 316 stainless steel casting
- Suitable for acidic, chemical fluids of low pH value
- Available in single impeller **[LH-14]** or dual impellers **[LH-W-14]**





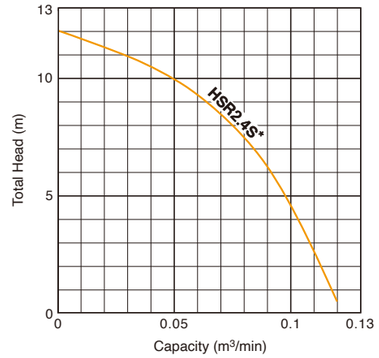
Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LH422-14	100	22	370	420	1352
LH637-14	150	37	540	530	1448
LH6110-14	150	110	1350	592	1887
LH837-14	200	37	540	530	1488
LH8110-14	200	110	1400	592	1887
LH311W-14	80	11	320	330	1184
LH322W-14	80	22	340	330	1275

Residue Drainage

Single-phase Portable Residue Drainage Pump

HSR

- Suitable for draining shallow standing water
- Drain water to 1 mm in depth
- Multi-directional hose coupling (vertical and inclined)



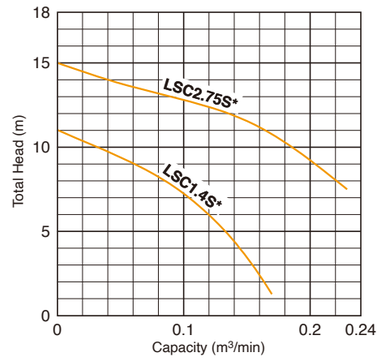
Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
HSR2.4S	50	0.4	10.8	227	282

* The curve shows the pump performance while operating in a hanging condition without any restriction to the suction.

Single-phase Portable Residue Drainage Pump

LSC

- Suitable for draining shallow standing water
- Drain water to 1 mm in depth
- Multi-directional hose coupling (vertical and inclined)
- Swing check valve prevents reverse-flow



Model	Discharge Bore mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LSC1.4S	25	0.48	12	196	316
LSC2.75S	50	0.75	15.2	197	371

* The curve shows the pump performance while operating in a hanging condition without any restriction to the suction.

Single-phase Portable Self-priming Residue Drainage Pump

LSP

- Suitable for draining shallow standing water
- Can drain water at narrow space by free-positioning suction attachment
- Syphon breaker mechanism prevents reverse-flow

Model	Suction & Discharge mm	Motor Output kW	Dry Weight kg	Dimensions mm	
				L	H
LSP1.4S	25	0.48	16.5	300	307

Single-phase Portable Residue Drainage Pumps

Tsurumi offers a series of pumps for low level standing water, which can suck up and drain a small volume of stagnant or residual water. With a compact and lightweight design, these pumps provide excellent portability. Also, because they run on a single-phase power supply, these pumps are easy to handle. Various types of pumps are available in our product lineup: some models can drain water to a minimum level of 1 mm, while others are equipped with a water reverse-flow preventing mechanism or a suction attachment. These pumps are suitable for draining shallow standing water, for example, draining water on the floor of construction sites, pits, water collection/feed tanks and small puddles, by taking advantage of the characteristics of each model.

Recently, the Zika virus, which threatens to go global, and Dengue fever, which induces a high fever, have been prevalent in tropical and subtropical zones of South East Asia and elsewhere. Tsurumi's residue drainage pumps can smoothly drain standing water where disease-carrying mosquitoes breed. Eliminating standing water is the most significant countermeasure against infection of the above diseases, as it prevents mosquitoes from breeding.

Anti Zika and Dengue
Prevent Mosquito Breeding

Drain water to 1 mm

HSR

Can pump water as shallow as 5 mm from the bottom of the pump and drain water to 1 mm in depth.

FAMILY

option

* excluding automatic model

Attaching the optional residue adapter to the pump casing allows draining to 1 mm in depth.

Drain water to 1 mm, prevent reverse-flow

LSC

Can drain water to 1 mm in depth. A valve seat and swing check valve prevent suctioned water from backflowing.

Portable suction attachment, prevent reverse-flow

LSP

Can pump pooled water from shallow recesses using the suction attachment.
A syphon breaker mechanism prevents backflowing and the seal water from draining out.

Options

☑ Seawater-Resistant Version

Tsurumi's pumps can be combined with a seawater-resistant kit (optional) that adds a "galvanic anode" and "seawater-resistant special cast iron impeller," and enables about two years of service. (The service period depends on operating conditions.)

Seawater-Resistant Pumps Web

☑ High Temperature Liquids Version

Tsurumi's pumps are applicable to high temperature liquids of up to 80°C. Pumps of the standard specification can discharge liquids of up to 40°C. However, there are many fields that need to discharge higher temperature liquids, e.g., discharging industrial water from a power plant or ironworks, or discharging hot spring water from a mine in a volcanic zone.

☑ Corrosion-Resistant Version

Tsurumi's pumps can be fabricated with all fluid-contacting parts made of 316 stainless steel, including the impeller, pump casing, motor frame, outer cover, strainer stand, and flange/hose coupling.

☑ High Voltage Version

Tsurumi's pumps can be manufactured to between 380 - 1000 V ratings that are often required for mining applications.
The pumps meet mining safety standards as they come with screened cables and motors with built-in diodes for ground-fault checks.

TSURUMI PUMP

www.tsurumi-global.com

We reserve the right to change the specifications and designs without prior notice. The OO series and model OO are indicated with our series/model codes in this catalog.

TSURUMI
MANUFACTURING CO., LTD.

Your Dealer

Printed in Japan IE101-Q HB-B-K-A