



TSURUMI PUMP

LH 3-phase
50Hz

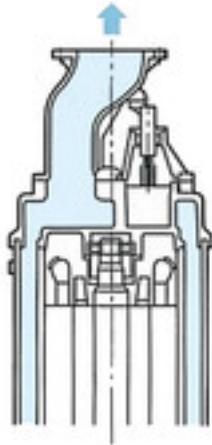
High head pumps - Deep well draining
- for professional use

The recent developments of civil engineering and architectural technologies are increasing the necessity of digging deeper into the earth. This requires a submersible pump with a rugged construction that can withstand the high pressure so deep in the water.



Water jacket

Inner and outer motor casing - flow-through-design - perfect cooling under dry-run-conditions.



Cylindrical channel

The cylindrical drive channel maintains the motor cooling efficiency adequately even during operation at low water levels. With a top discharge, centered on the unit, the pump can be installed in narrow places.

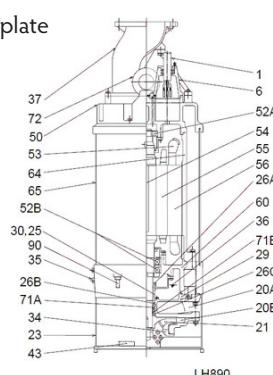


Iron casting - superior to aluminium

Casing and motor frame made of grey iron casting, impeller made of high chromium iron casting

Components:

001	Cable
006	Cable entrance
020A	Pump casing
020B	Pump casing
021	Impeller
023	Strainer
025	Mechanical seal
026A	Oil sealing
026B	Oil sealing
026C	Labyrinth ring
029	Oil casing
030	Oil lifter
034	Wear ring
035	Oil plug
036	Lubricant
037	Discharge bend
043	Cathodic protection plate
050	Motor cover
052A	Upper bearing
052B	Lower bearing
053.	Miniature protector
054	Shaft
055	Rotor
056	Stator
060	Bearing housing
064	Motor casing
065	Jacket
071A	Shaft sleeve
071B	Shaft sleeve
072	Eye bolt
090,	Leakage sensor



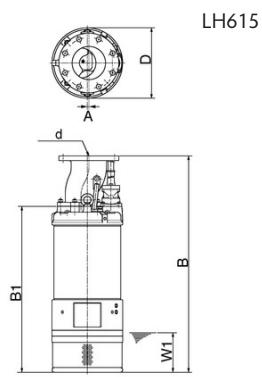
LH890

Specifications:

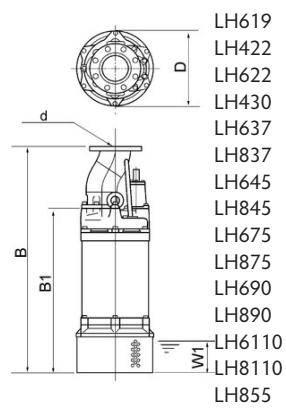
Model	Colour code curve	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Pressure resistance max. m	Cable length m									
LH615	1	150	15,0	27,5	52,0	2400	213,0	8,5	30	20									
LH619	2	150	19,0	36,0	42,0	4370	350,0	12	30	20									
LH422	3	100	22,0	40,5	66,0	2400	350,0	6	30	20									
LH622	4	150	22,0	40,5	54,0	3750	360,0	12	30	20									
LH430	5	100	30,0	55,0	80,0	2300	355,0	6	30	20									
LH637	6	150	37,0	67,0	89,5	2380	495,0	6	30	20									
LH837	7	200	37,0	67,0	51,8	5375	495,0	20	30	20									
LH645	8	150	45,0	81,0	90,0	2975	510,0	6	30	20									
LH845	9	200	45,0	81,0	50,8	5450	510,0	20	30	20									
LH855	10	200	55,0	100,0	70,0	5725	820,0	20	30	20									
LH675	11	150	75,0	130,0	132,0	2450	865,0	6	30	20									
LH875	12	200	75,0	130,0	70,0	6500	865,0	20	30	20									
LH690	13	150	90,0	166,0	150,0	2500	1100,0	6	30	20									
LH890	14	200	90,0	166,0	90,0	6000	1150,0	20	30	20									
LH6110	15	150	110,0	209,0	177,0	3000	1210,0	6	30	20									
LH8110	16	200	110,0	209,0	107,0 100, 150, 200	6500	1210,0	20	30	20									
Ø Discharge bore mm																			
Pumping Fluid	Type of Fluid			Spring water, Rain water, Ground water, Sand carrying water															
Temperature		0-40°C																	
Pump	Components	Impeller	Closed type impeller																
		Shaft Seal	Double mechanical seal																
		Bearings	Shielded ball bearings																
	Material	Impeller	Chromium iron casting																
		Casing	Ductile iron casting EN-GJS-450-10, Grey iron casting EN-GJL-200																
		Shaft Seal	Silicon carbide in oil bath																
Motor	Type, Poles			Induction motor, 2 poles, IP68															
	Motor Protector (built-in)			Circle thermal cut-out, Miniature protector															
	Insulation			Insulation class B, Insulation class F															
	Phase / Voltage			3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.															
	Lubrication			Turbine oil (ISO VG32)															
	Material	Casing	Grey iron casting EN-GJL-200																
		Shaft	Stainless steel EN-X30Cr13																
		Cable	Rubber, NSSHÖU																
Discharge Connection		JIS 10K Flange, JIS 20K Flange																	

Dimensions in mm:

Model	d	A	B	B1	D	W1
LH615	150	7	1014	777	330	185
LH619	150	-	1352	1051	420	250
LH422	100	-	1352	1051	420	250
LH622	150	-	1352	1051	420	250
LH430	100	-	1352	1051	420	250
LH637	150	-	1448	1027	530	180
LH837	200	-	1488	1027	530	180
LH645	150	-	1448	1027	530	180
LH845	200	-	1488	1027	530	180
LH855	200	-	1716	1255	550	200
LH675	150	-	1676	1255	563	200
LH875	200	-	1716	1255	563	200
LH690	150	-	1787	1385	595	200
LH890	200	-	1787	1385	595	200
LH6110	150	-	1887	1485	592	200
LH8110	200	-	1887	1485	592	200



W1: lowest running water level



In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website www.tsurumi.eu/english/applications.htm.



Contributing to World-wide Prosperity and Understanding through Worker- and Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi's factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilities and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.

