



LH 3-phase
50Hz

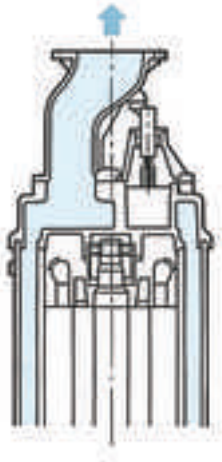
High head pumps - Deep well draining
- for professional use

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.

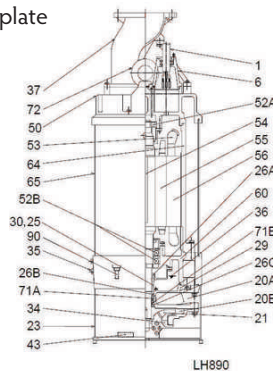


Iron casting - superior to aluminium

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

Components:

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

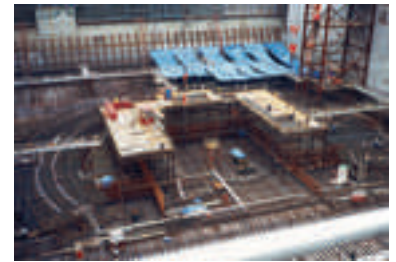


Cast Iron used:

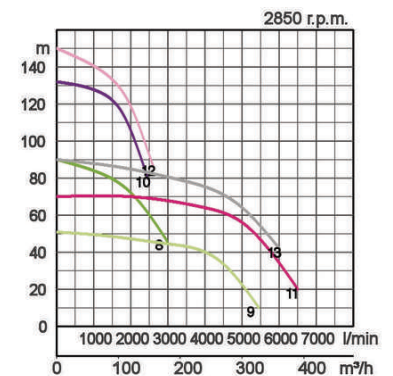
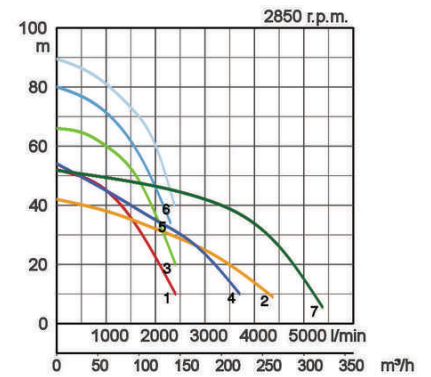
	Brinell hardness:
Chromium iron casting	415 - 425
Grey iron casting EN-GJL-200	150 - 230
Ductile iron casting EN-GJS-450-10	143 - 217

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	Max. water depth m	Cable length m
LH615	1	150	15,0	27,5	52,0	2400	213,0	8,5	50	20
LH619	2	150	19,0	36,0	42,0	4370	350,0	12	50	20
LH422	3	100	22,0	40,5	66,0	2400	350,0	6	50	20
LH622	4	150	22,0	40,5	54,0	3750	360,0	12	50	20
LH430	5	100	30,0	55,0	80,0	2300	355,0	6	50	20
LH637	6	150	37,0	67,0	89,5	2380	495,0	6	50	20
LH837	7	200	37,0	67,0	51,8	5375	495,0	20	50	20
LH645	8	150	45,0	81,0	90,0	2975	510,0	6	50	20
LH845	9	200	45,0	81,0	50,9	5450	510,0	20	50	20
LH675	10	150	75,0	130,0	132,0	2450	850,0	6	50	20
LH875	11	200	75,0	130,0	70,0	6500	850,0	20	50	20
LH690	12	150	90,0	166,0	150,0	2500	1100,0	10	50	20
LH890	13	200	90,0	166,0	90,0	6000	1150,0	20	50	20

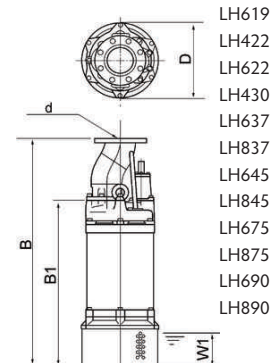
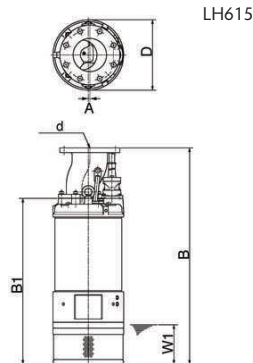


ø Discharge bore mm		100,150,200	
Pumping Fluid	Temperature	0-40°C	
	Type of Fluid	Spring water, Rain water, Ground water, Sand carrying water	
Pump	Components	Impeller	Closed type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
	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	
	Lubrication	Turbine oil (ISO VG32)	
	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.	
	Material	Casing	Grey iron casting EN-GJL-200
Shaft		Stainless steel EN-X30Cr13	
Cable		Rubber, H07RN-F	
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
LH675	150	-	1676	1255	550	200
LH875	200	-	1716	1255	550	200
LH690	150	-	1787	1385	595	200
LH890	200	-	1787	1385	595	200



W1: continuous 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-europe.com/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.

