

SPCO®
makes life easier



Dewatering Pumps

Products



NE 4-5
NE-X 6-7
Contractor
Dewatering Pump



HD 8-9
Submersible
Slurry Pump



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N-S 12-13
Contractor
Dewatering Pump



N-R 14-15
Flat Suction
Dewatering Pump



N-P 16-17
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Contractor
Dewatering Pump



LA 30-32
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Contractor
Dewatering Pump



LM 36-38
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Submersible
Slurry Pump



LB 42-44
Submersible
Slurry Pump



LT 45-47
Submersible
Slurry Pump



D 48-52
D-S 53-56
DB 57-59
Submersible
Dewatering Pump



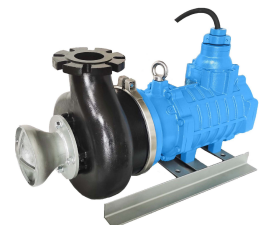
DC 60-64
Dewatering Pump
Stainless Steel Version



V 65-67
Seawater Pump



DH 68-73
Dewatering Pump



HL 74-75
Sand Pump

NE • Contractor Dewatering Pump

Impeller:

The semi-vortex impeller reduces clogging and ensures consistent pumping performance over a long service life.

Agitator:

A shaft-mounted agitator reduces air pockets, loosens settled solids and minimizes the risk of clogging.

Versions:

Available as a standard version (manual) and, depending on the model, with level sensor (S) or float switch (F).

Level control:

S version: Stops within 60 seconds when the water level drops below the sensor. The pump restarts automatically when the water level rises back to the sensor.

F version: Automatic start/stop via float switch.

Protection features:

Automatic shut-off in case of overload and under/overvoltage, with automatic restart after 5 minutes. In case of severe overload, shut-off takes place within 0.1 s to protect the pump from damage.



NE-5.10

NE-5.10F

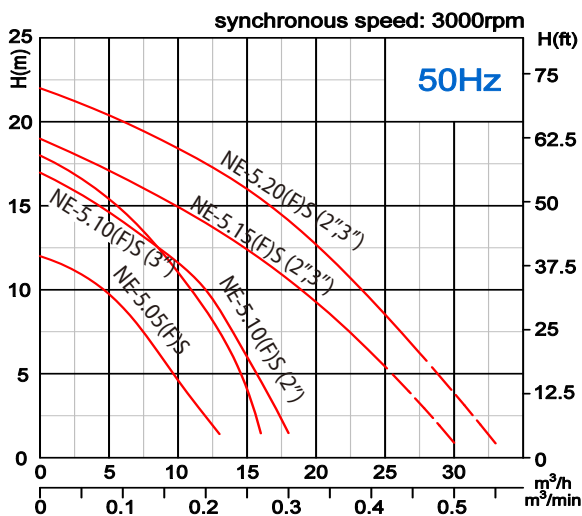
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~)
- Cable type: H07RN-F
- Immersion depth: max. 10 m

Applications

- Construction dewatering
- Lift pits or basement rooms
- Rainwater, sludge water and high-viscosity media

Performance Curve

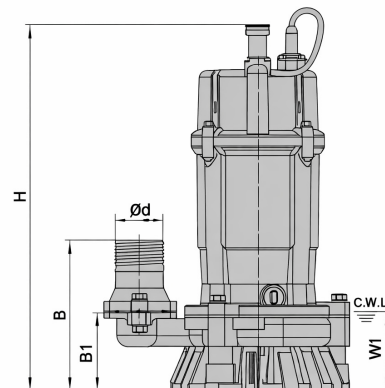
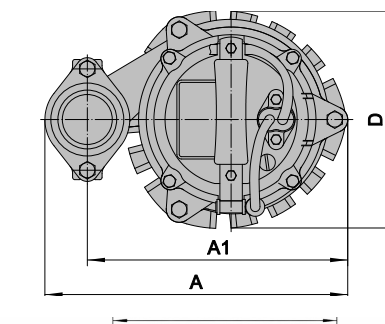
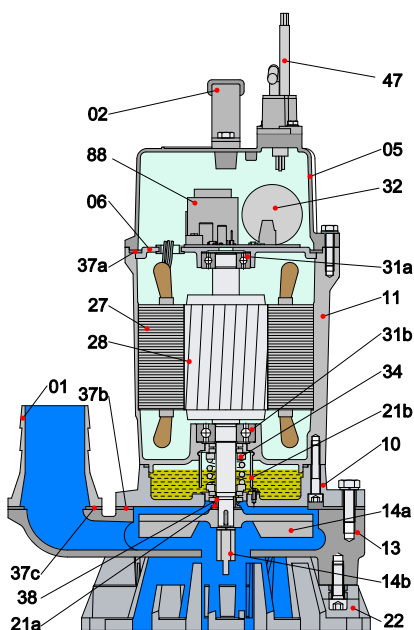


Model (50Hz)	Discharge		Motor output		Rated current	Optimal capacity and head		Maximum capacity and head		Solids passage
	mm	Inch	kW	HP		m ³ /h	m	m ³ /h	m	
NE-5.05(F)S	50	2"	0.4	0.55	3.0	7	8	12.6	12	6
NE-5.10(F)S	50	2"	0.75	1	5.0	10	11	16/15	18/19	6
NE-5.10(F)S	80	3"	0.75	1	5.0	12	10	18	17/18	6
NE-5.15(F)	50	2"	1.1	1.5	8.0	12	14	25	19	6
NE-5.15(F)	80	3"	1.1	1.5	8.0	12	14	30	19	6
NE-5.20(F)	50	2"	1.5	2	11.5	15	16/17	28	22/24	6
NE-5.20(F)	80	3"	1.5	2	11.5	15	16/17	33	22/24	6

S: Indicates a pump with level sensor

F: Indicates a pump equipped with float switch

Part List



C.W.L.: continuous running water level

No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber, stainless steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Die-cast aluminum
13	Outer casing	Cast iron
14a	Impeller	Ductile iron
14b	Agitator	Stainless steel
21a	Sand guard	NBR
21b	Oil riser tube	LDPE
22	Seat assembly	PU

No.	Part	Material
27	Stator	
28	Rotor	Shaft AISI420 stainless steel
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Sic / Sic
37a	Seal	NBR
37b	Seal	NBR
37c	Seal	NBR
38	Shaft sleeve	AISI420 stainless steel
47	Cable	H07RN-F
88	Control block	

Model (50Hz)	d	A	A1	B	B1	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
NE-5.05(F)S	50	243	207	157	84	185	350	85	13.5	15	405x255x255
NE-5.10 (F)S	50	257	221	157	84	185	390	85	16.5	18	445x265x255
NE-5.10 (F)S	80	284	234	225	109	185	390	85	18	19.5	445x295x255
NE-5.15(F)	50	298	248	175	88	193	442	100	18.5		485x325x255
NE-5.15(F)	80	298	248	196	88	193	442	100	18.5		485x325x255
NE-5.20(F)	50	298	248	175	88	193	442	100	20.5		485x325x255
NE-5.20(F)	80	298	248	196	88	193	442	100	20.5		485x325x255

NE-X • Flat Suction Dewatering Pump

Flat Suction Operation:

The pump starts at a water level as low as 5 mm and pumps down to an approximate residual water level of 1 mm.

Compact and Portable:

Lightweight, compact flat suction submersible pump for mobile use.

Long Service Life:

Despite the single-phase design (1~), wear-resistant components ensure a long service life comparable to robust three-phase dewatering pumps.

Adjustable Discharge Outlet:

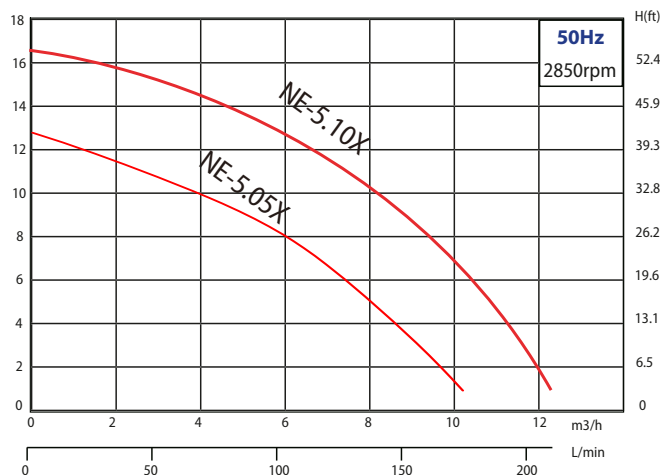
The discharge outlet can be positioned vertically or at an angle, reducing kinking and bending stress on the discharge hose.



Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m

Pumpenkennlinie

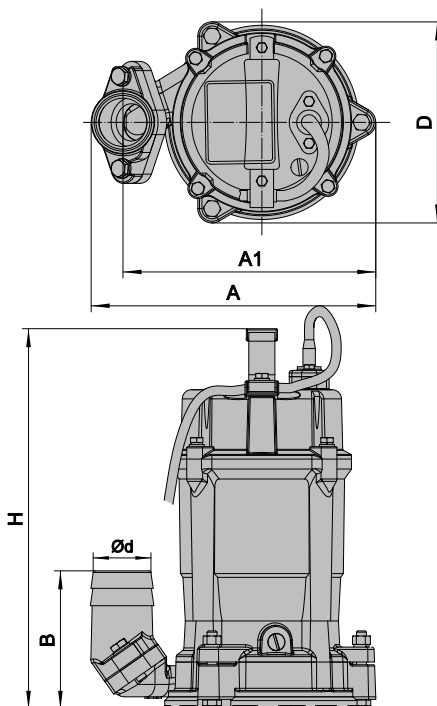
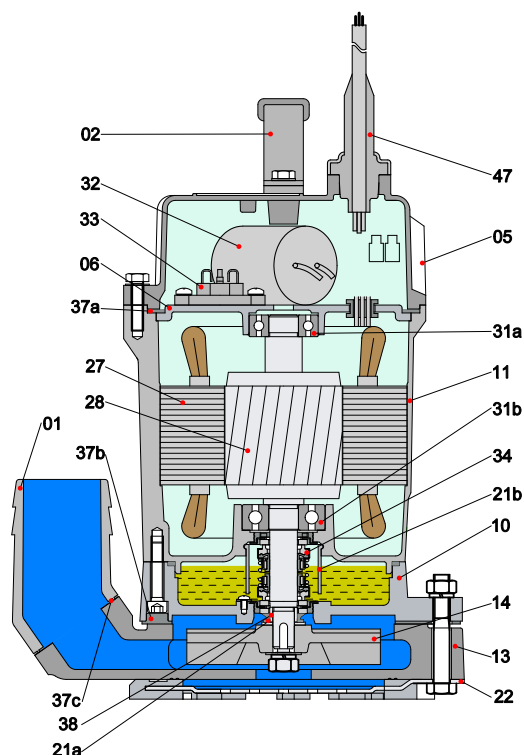


Applications

- Construction dewatering
- Sumps, inspection chambers and water tanks (e.g. cisterns/tanks)
- Rainwater, stormwater, residual water and wash water

Model (50Hz)	Discharge		Motor Power		Rated Current 1~	Optimal Capacity and Head		Maximum Capacity and Head		Solids Passage
	mm	inch	kW	HP		m³/h	m	m³/h	m	
NE-5.05X	50	2"	0.4	0.55	3.0A	6	8	10.2	12	3
NE-5.10X	50	2"	0.75	1	5.0A	7	12	12.4	16.4	3

Part List



No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Die-cast aluminum
13	Pump casing	Cast iron
14	Impeller	Ductile iron
21a	Sand guard	NBR
21b	Oil riser tube	LDPE

No.	Part	Material
22	Seat assembly	Rubber & steel
27	Stator	
28	Rotor	
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Ceramic-SiC / Carbon-Ceramic
37a	Seal	NBR
37b	Seal	NBR
37c	Seal	NBR
38	Shaft sleeve	AISI420SS
47	Cable	H07RN-F

Dimensions

Model (50Hz)	d	A	A1	B	D	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	kg	kg	mm
NE-5.05X	50	226	201	160	160	85	12.8	13.8	360×245×255
NE-5.10X	50	257	221	157	185	85	16.5	18	445x265x255

HD • Submersible Slurry Pump

Application:

Designed for heavily contaminated sludge water and media with a high solids content.

Robust Construction:

Impeller and agitator made of high-chrome hard iron for high wear resistance. The semi-vortex impeller reduces clogging, especially from sand and solids.

Drive:

High-efficiency motor for reliable pumping of heavily contaminated sludge media.

Versions / Level Control:

Available as a standard version (manual) and, depending on the model, with level sensor (S) or float switch (F).

Automatic Shut-Off:

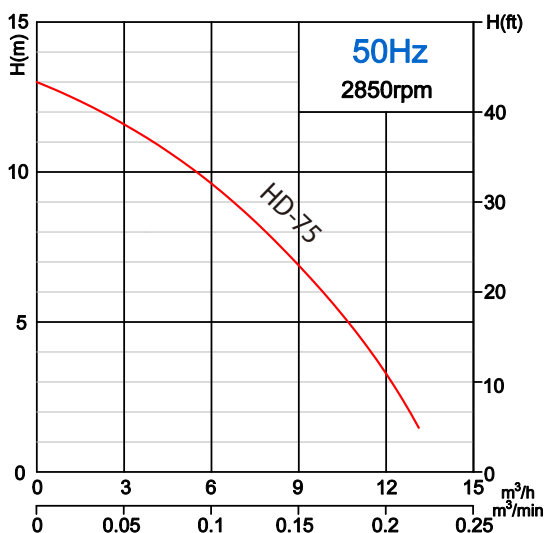
S version: Stops within 60 seconds when the water level drops below the sensor. The pump restarts automatically when the water level rises back to the sensor.

F version: Automatic start/stop via float switch.

Protection Features:

Automatic shut-off in case of overload and under/overvoltage, with automatic restart after 5 minutes. In case of severe overload, shut-off takes place within 0.1 s to prevent damage.

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 1~ /3~	Optimal capacity and head		Maximum capacity and head		Solids passage
	mm	inch	kW	HP		m³/h	m	m³/h	m	
HD-75 (F) S	50	2"	0.55	0.75	4.0A /1.7A	8	8	13.2	13	9

S: Indicates a pump with level sensor

F: Indicates a pump equipped with float switch



HD-75

HD-75 S

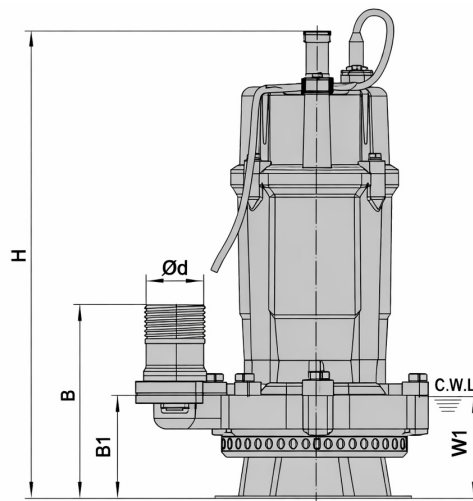
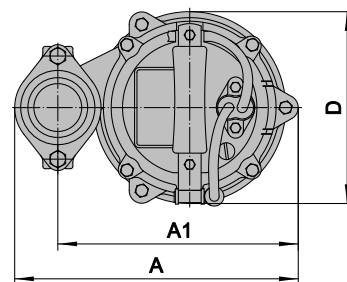
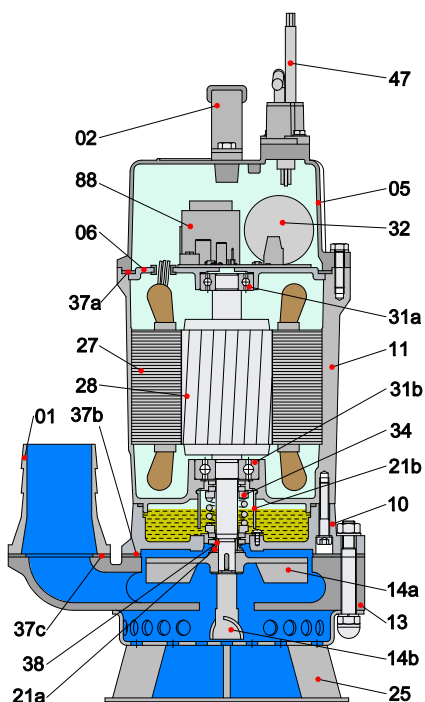
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m

Applications

- Construction and building sites
- Basement rooms, pits and utility pits
- Rainwater, sludge water and high-viscosity media

Part List



No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Die-cast aluminum
13	Pump casing	Cast iron
14a	Impeller	High-chrome hard iron
14b	Agitator	High-chrome hard iron
21a	Oil riser tube	NBR
21b	Sand guard	LDPE
25	Strainer	Stainless steel

No.	Part	Material
27	Stator	
28	Rotor	AISI420 (stainless steel)
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Ceramic-SiC Carbon-Ceramic
37a	Seal	NBR
37b	Seal	NBR
37c	Seal	NBR
38	Shaft sleeve	AISI420
47	Cable	H07RN-F
88	Control block	

Model (50Hz)	d	A	A1	B	B1	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	1~3~ kg	1~3~kg	mm
HD-75	50	237	201	168	95	160	401	95	15.5/14	17/15.5	455x255x230
HD-75 S	50	237	201	168	95	160	401	96	15.2/-	16.7/-	455x255x230

S: Indicates a pump with level sensor

F: Indicates a pump equipped with float switch

N • Contractor Dewatering Pump

Compact and Lightweight:

Portable, compact submersible dewatering pump in lightweight design. The small outer diameter is ideal for use in 8-inch wells.

Robust Design:

Components made of wear-resistant rubber and ductile iron for high durability and reliability.

Efficient Cooling:

Suction from below, discharge upwards. The pumped medium flows upward between the motor housing and the cooling jacket, providing very effective motor cooling. This also allows continuous operation at low water levels.

Anti-Clogging Design:

The large clearance between the semi-open impeller and the pump casing reduces blockage caused by sludge or sand.

Threaded Discharge:

The male-thread discharge can be mounted vertically or at an angle, making pipe routing easier.



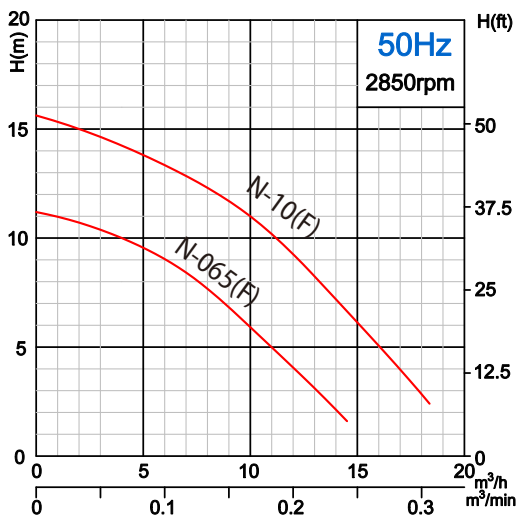
N-10

N-10F

Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V $\pm$ 10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m

Performance Curve



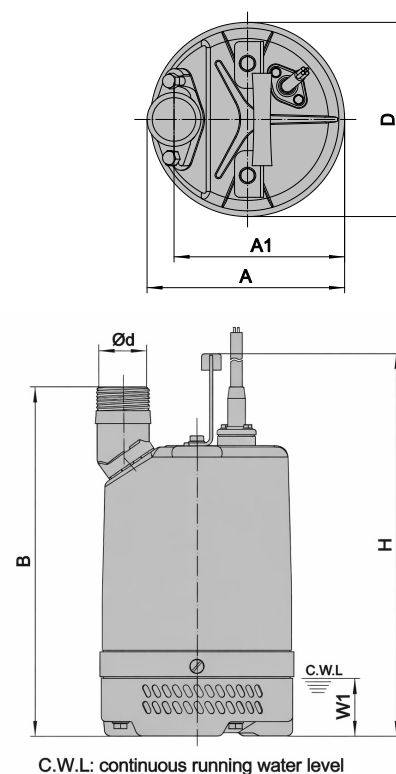
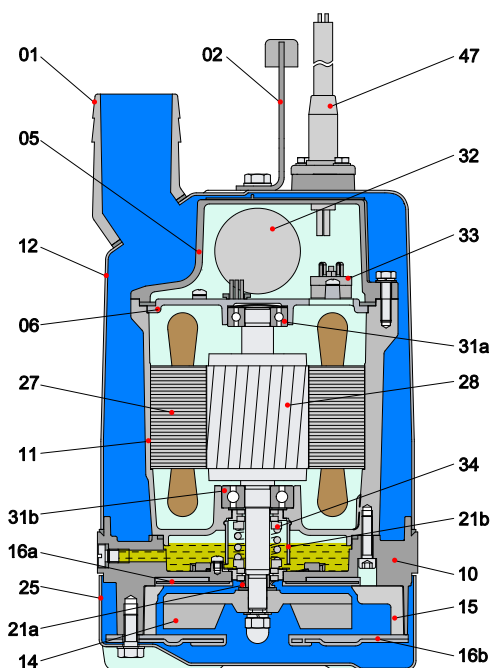
Applications

- Construction dewatering
- Lift pits / basement rooms
- Rainwater and sludge water

Model (50Hz)	Discharge		Motor output		Rated current	Optimal capacity and head		Maximum capacity and head		Solids passage
	mm	inch	kW	HP	1~	m³/h	m	m³/h	m	mm
N-065(F)	50	2"	0.48	0.65	3.0A	7	8	13.5	11.5	6
N-10(F)	50	2"	0.75	1	5.0A	10	11	18	15	6

F: Indicates a pump equipped with float switch

Part List



No.	Part	Material
01	Discharge outlet	Die-cast aluminum
02	Carrying handle	Rubber, stainless steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Housing	Stainless steel
11	Motor housing	Die-cast aluminum
12	Outer casing	Steel
14	Impeller	Die-cast
15	Intermediate piece	Plastic, NBR
16a	Plate	Plastic & steel
16b	Lower plate	Plastic & steel

No.	Part	Material
21a	Oil seal	Plastic
21b	Sand guard	Plastic
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft 1.4301 stainless steel
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	SiC / SiC
47	Cable	H07RN-F

Dimensions

Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
N-065(F)	50	190	163	296	187	328	50	11.6	13.1	365X255X255
N-10(F)	50	190	163	336	187	368	50	13.8	15.3	405x225x255

F: Indicates a pump equipped with float switch

N-S • Dewatering Pump with Level Sensor

Compact and Lightweight:

Portable, compact submersible dewatering pump in lightweight design. The small outer diameter is ideal for use in 8-inch wells.

Robust Design:

Components made of wear-resistant rubber and ductile iron for high durability and reliability.

Efficient Cooling:

Suction from below, discharge upwards. The pumped medium flows upward between the motor housing and the cooling jacket, providing very effective motor cooling. This also allows continuous operation at low water levels.

Anti-Clogging Design:

The large clearance between the semi-open impeller and the pump casing reduces blockage caused by sludge or sand.

Threaded Discharge:

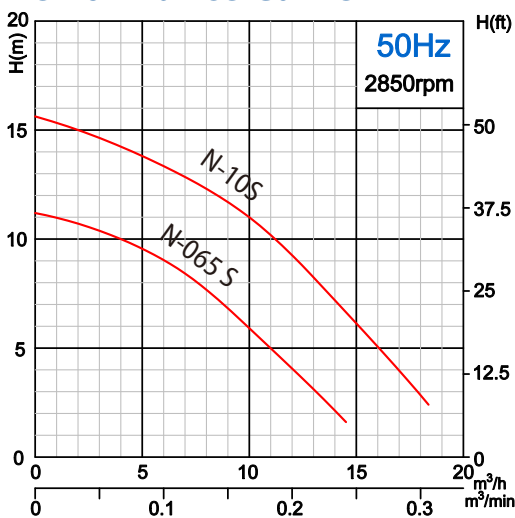
The male-thread discharge can be mounted vertically or at an angle, making pipe routing easier.



Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m

Performance Curve



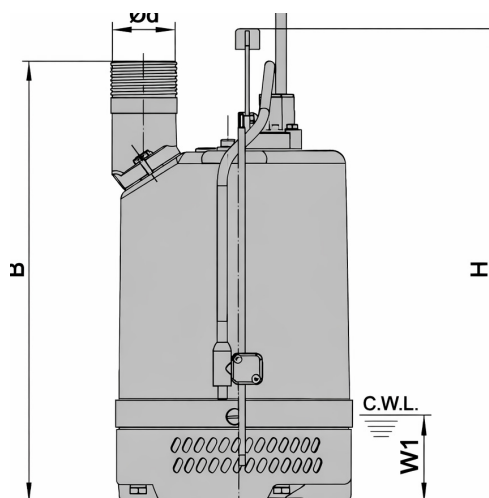
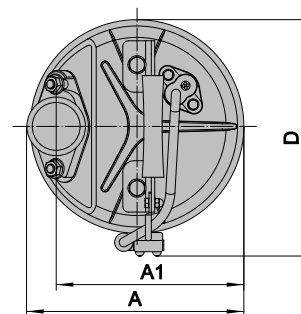
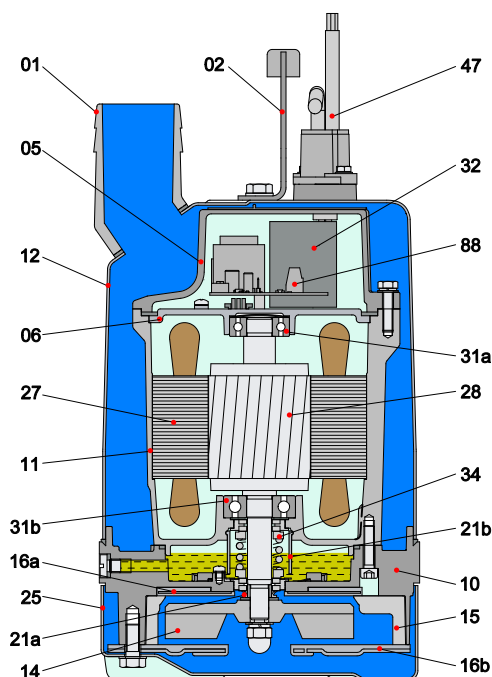
Applications

- Construction dewatering
- Lift pits / basement rooms
- Rainwater and sludge water

Model (50Hz)	Discharge		Motor output		Rated Current	Optimal capacity and head		Maximum capacity and head		Solids passage
	mm	inch	kW	HP		m³/h	m	m³/h	m	
N-065 S	50	2"	0.48	0.65	3.0A	7	8	13.5	11.5	6
N-10 S	50	2"	0.75	1	5.0A	10	11	18	15	6

S: Indicates a pump with level sensor

Part List



No.	Part	Material	No.	Part	Material
01	Discharge outlet	Die-cast aluminum	21a	Oil riser tube	NBR
02	Carrying handle	Rubber & steel	21b	Sand guard	LDPE
05	Upper cover	Die-cast aluminum	25	Strainer	Steel
06	Upper bearing housing	Cast iron	27	Stator	
10	Seal housing	Die-cast aluminum	28	Rotor	Shaft: AISI 420
11	Motor housing	Die-cast aluminum	31a	Bearing	Ball bearing
12	Outer casing	Steel	31b	Bearing	Ball bearing
14	Impeller	Ductile iron	32	Capacitor	
15	Diffuser	NBR	34	Mechanical seal	Ceramic-SiC / Carbon-Ceramic
16a	Plate	NBR & steel	47	Cable	H07RN-F
16b	Inlet plate	NBR & steel	88	Control block	

Dimensions

Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
N-065 S	50	190	164	296	207	348	50	11.8	13.3	385x230x270
N-10S	50	190	164	336	207	368	50	14	15.5	405x230x280

S: Indicates a pump with level sensor

N-R • Flat Suction Dewatering Pump

Lightweight and Portable:

Compact, portable dewatering pump – ideal for versatile applications. The small outer diameter is suitable for use in 8-inch wells.

Residual Water Operation:

A check valve at the lower inlet prevents backflow. The pump drains residual water down to 1 mm.

Robust Materials:

Components made of abrasion-resistant rubber and ductile iron provide high durability and a long service life.

Efficient Cooling:

Suction from below, discharge upwards. The pumped medium flows upward between the motor housing and the cooling jacket and enables continuous operation at low water levels.

Anti-Clogging Design:

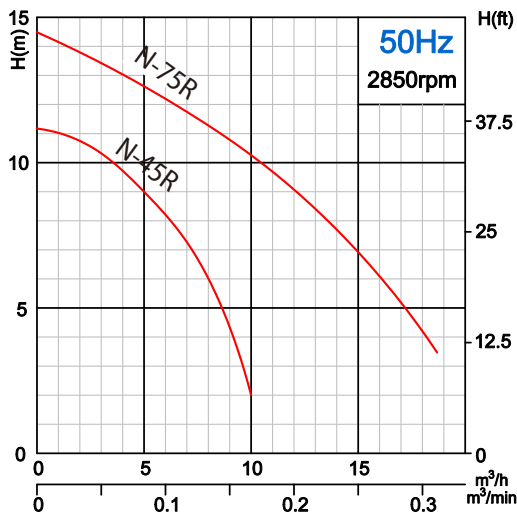
The large clearance between the semi-open impeller and the pump casing reduces blockage caused by sludge or sand.



Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m

Performance Curve



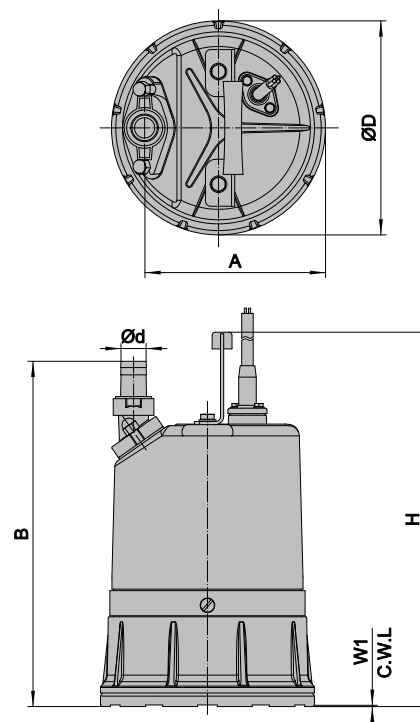
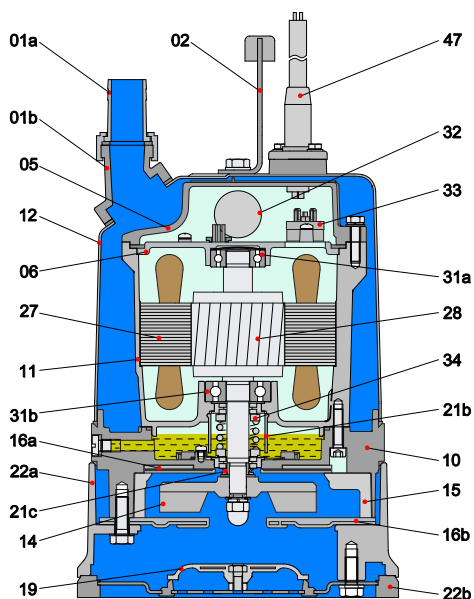
Applications

- Construction dewatering
- Basement rooms, pits and utility pits
- Rainwater and sludge water

Model (50Hz)	Discharge		Motoroutput		Rated Current	Maximum head	Solids passage	Cable length
	mm	inch	kW	HP				
N-45R	25	1"	0.48	0.65	3.0A	11/12	6	10
N-75R	50	2"	0.75	1.0	5.0A	14.5/16	6	10

Please read the operating instructions before commissioning.

Part List



No.	Part	Material
01a	Discharge outlet	Die-cast aluminum
01b	Discharge outlet	Die-cast aluminum
02	Carrying handle	Rubber & steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Die-cast aluminum
11	Motor housing	Die-cast aluminum
12	Outer casing	Steel
14	Impeller	Ductile iron
15	Diffuser	NBR
16a	Plate	NBR & steel
16b	Inlet plate	NBR & steel
19	Check valve	NBR & steel

No.	Part	Material
21a	Oil riser tube	NBR
21b	Sand guard	LDPE
22a	Strainer	Die-cast aluminum
22b	Strainer	NBR & steel
27	Stator	
28	Rotor	Shaft: AISI 420
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Ceramic-SiC / Carbon-Ceramic
47	Cable	H07RN-F

Dimensions

Model (50Hz)	d	A	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	kg	kg	mm
N-45R	25	173	325	205	358	1	12.6	14.1	425x230x280
N-75R	50	173	325	205	398	1	14.8	16.3	465x230x280

N-P • Self-Priming Dewatering Pump

Capacity: up to 3.6 m³/h

Head: up to 11 m

Power: 0.48–0.75 kW

Self-Priming and Flexible:

The N-P is a self-priming dewatering pump for operation in water or outside the water. Ideal when residual water must be removed reliably.

Lightweight and Durable:

The pump casing is made of aluminum alloy and wear-resistant rubber. This makes the pump lightweight and robust in operation.

Residual Water Down to Floor Level:

With suction plate and 5 m suction hose, water can be removed down to almost floor level.

Backflow Protection:

A check valve at the inlet prevents water from flowing back after shut-off.

Efficient Motor Cooling:

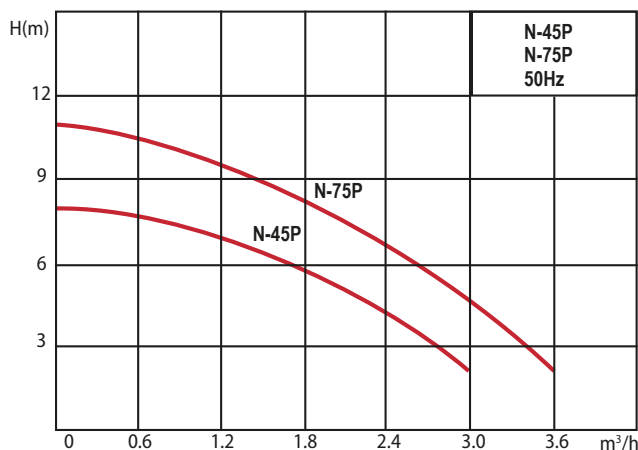
The pumped medium flows through the motor section and the cooling jacket and is discharged upwards. This ensures reliable motor cooling.



Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Maximum immersion depth: 10 m
- Suction hose: 5 m
- Discharge outlet: Geka
- N-45P: max. 3.0 m³/h, max. 8.3 m, 0.48 kW
- N-75P: max. 3.6 m³/h, max. 11 m, 0.75 kW

Performance Curve



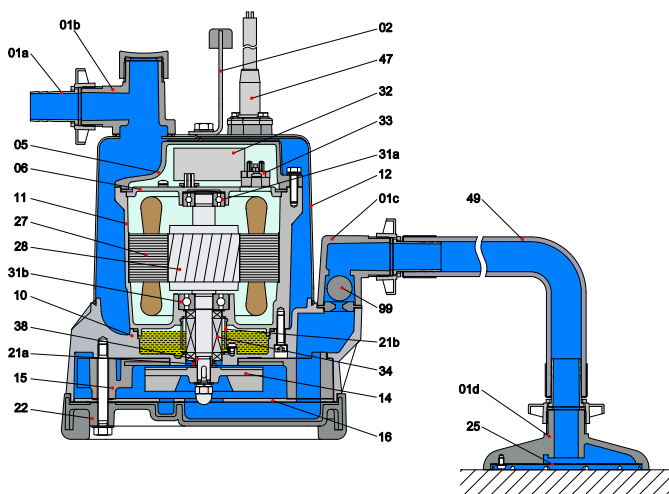
Applications

- Construction and building sites, basements and pits
- Utility pits and collection shafts
- Rainwater and muddy water
- Residual water in pits and depressions

Model (50Hz)	Discharge		Motor output		Rated Current 230V	Optimal capacity and head		Maximum capacity and head		Maximum vacuum
	mm	inch	kW	HP		m ³ /h	m	m ³ /h	m	
N-45P	25	1"	0.48	0.65	3.0A	1.8	6	3	8.3	-73.3
N-75P	25	1"	0.75	1.0	5.0A	2.1	7.5	3.6	11	-73.3

Before first operation, fill the pump with 1.8 litres of water (according to the nameplate).

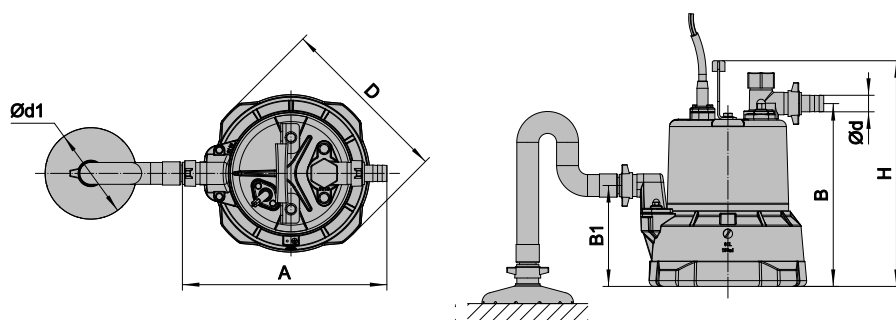
Part List



No.	Part	Material
27	Stator	
28	Rotor	Shaft AISI 420 (stainless steel)
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Ceramic-SiC / Carbon-Ceramic
38	Shaft sleeve	Steel
47	Cable	H07RN-F
49	Flexible hose	
99	Rubber cone	NBR

No.	Part	Material
01a	Hose coupling	Die-cast aluminum
01b	Hose coupling	Die-cast aluminum
01c	Water inlet connection	Die-cast aluminum
01d	Water inlet connection	Cast iron
02	Carrying handle	Rubber and steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Die-cast aluminum
11	Motor housing	Die-cast aluminum
12	Outer casing	Steel
14	Impeller	Ductile iron
15	Diffuser	NBR and steel
16	Inlet plate	Stainless steel AISI 304
21a	Sand guard	NBR
21b	Oil riser tube	LDPE
22	Seat assembly	NBR and die-cast aluminum
25	Strainer	Stainless steel AISI 304

Dimensions



Model (50Hz)	d	d1	A	D	H	B	B1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
N-45P	25	138	300	261	342	277	152	18	20	375×375×420
N-75P	25	138	300	261	382	317	152	20	22	375×375×460

L • Contractor Dewatering Pump

Capacity: up to 160 m³/h

Head: up to 57 m

Power: 1.5–15 kW



Robust Construction:

Pump casing and motor housing made of cast iron for a long service life. The pressure-resistant mechanical seal allows maximum immersion depth.

Semi-Open Impeller and Wear Plate:

A semi-open impeller made of high chrome alloy in combination with a wear plate made of ductile iron provides high resistance in abrasive media.

Efficient Motor Cooling and Compact Installation:

The discharge channel is integrated into the motor housing and cools the motor effectively. The top discharge saves installation space.

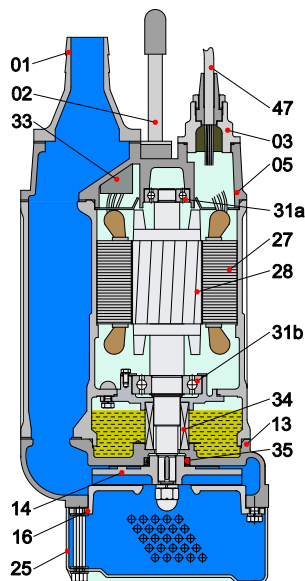
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 3~ 400V $\pm$ 10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

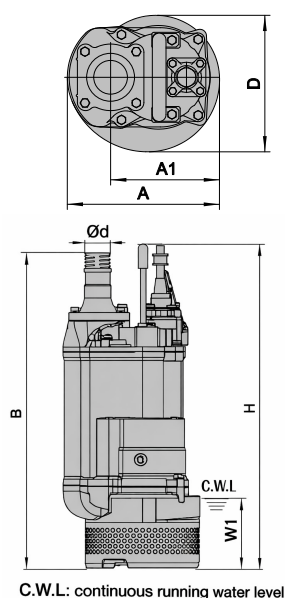
- Civil engineering / construction
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- General pumping applications

Part List



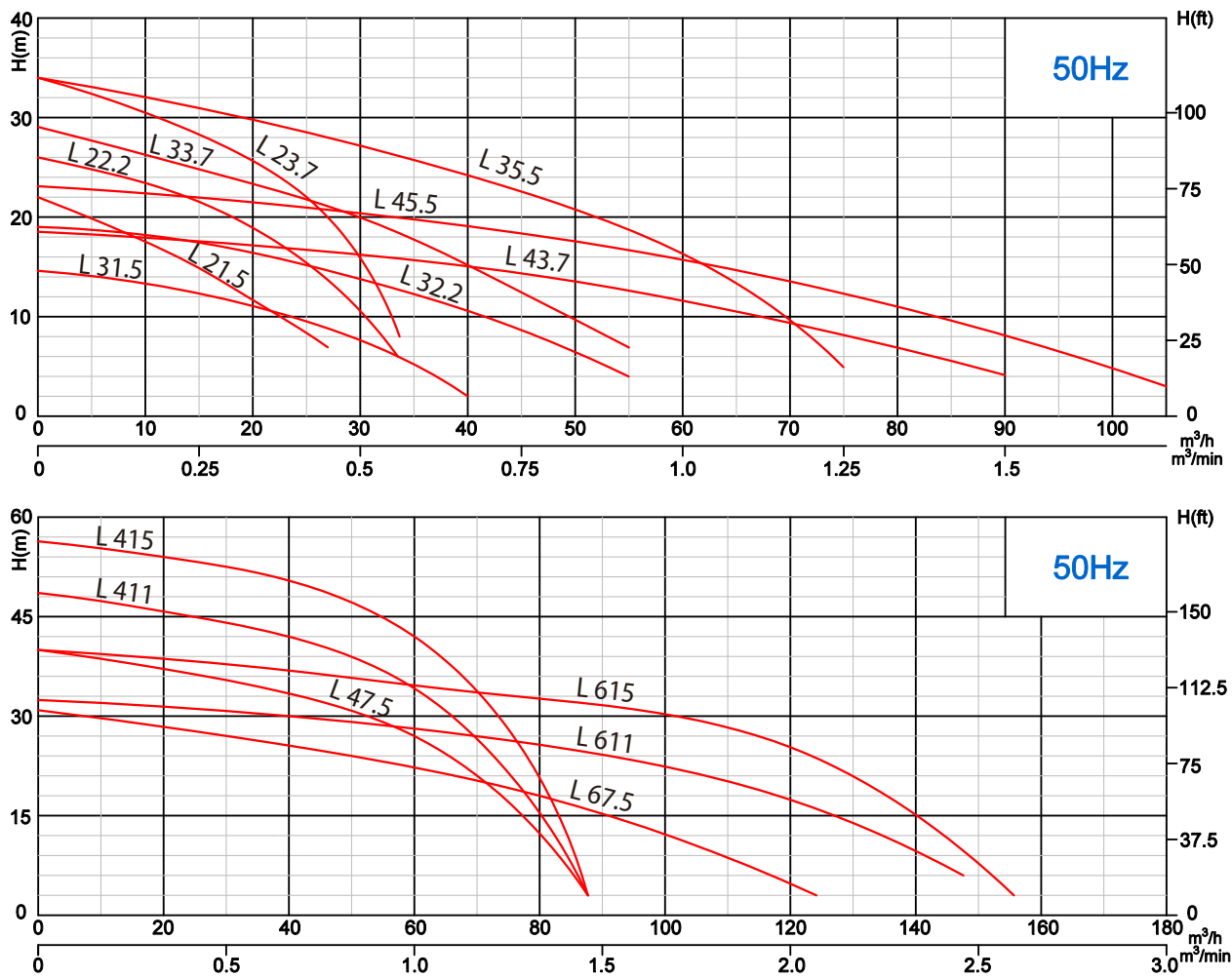
No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft AISI420
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions



Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
50Hz	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
L 21.5	50	235	173	543	216	503	120	36	40	620x265x275
L 31.5	80	235	173	543	216	503	120	36	40	620x265x275
L 22.2	50	235	173	543	216	503	120	39	43	620x265x275
L 32.2	80	235	173	543	216	503	120	39	43	620x265x275
L 23.7	50	293	216	628	252	629	150	63	68	710x320x295
L 33.7	80	293	216	628	252	629	150	63	68	710x320x295
L 43.7	100	293	216	628	252	629	150	63	68	710x320x295
L 35.5	80	329	240	671	300	590	150	77	84	750x350x335
L 45.5	100	329	240	671	300	590	150	77	84	750x350x335
L 47.5	100	330	240	750	314	676	190	106	116	835x365x385
L 67.5	150	330	240	790	314	676	190	108	119	865x365x385
L 411	100	373	255	807	350	695	190	136	148	855x415x435
L 611	150	373	255	807	350	695	190	139	150	855x415x435
L 415	100	373	255	842	350	755	190	144	158	905x415x435
L 615	150	373	255	842	350	755	190	146	160	905x415x435

Performance Curve



Model (50Hz)	Discharge		Motor-output		Rated Current 400V	Optimal capacity and head			Maximum capacity and head			Solids passage
	mm	inch	kW	HP		m³/h	l/min	m	m³/h	l/min	m	
L 21.5	50	2"	1.5	2	3.5A	15	250	15	27	450	22	8.5
L 31.5	80	3"	1.5	2	3.5A	30	500	8	40	670	14.5	8.5
L 22.2	50	2"	2.2	3	5.0A	18	300	20	33	550	26	8.5
L 32.2	80	3"	2.2	3	5.0A	36	600	11	55	920	19	8.5
L 23.7	50	2"	3.7	5	7.7A	12	200	30	33	550	34	8.5
L 33.7	80	3"	3.7	5	7.7A	30	500	20	55	920	29	8.5
L 43.7	100	4"	3.7	5	7.7A	60	1000	11.5	90	1500	18.5	8.5
L 35.5	80	3"	5.5	7.5	11.4A	36	600	25	75	1250	34	8.5
L 45.5	100	4"	5.5	7.5	11.4A	60	1000	16	105	1750	23	8.5
L 47.5	100	4"	7.5	10	15.0A	48	800	30	84	1400	40	11.5
L 67.5	150	6"	7.5	10	15.0A	90	1500	15	127	2117	31	19.5
L 411	100	4"	11	15	22.0A	60	1000	35	84	1400	48.5	11.5
L 611	150	6"	11	15	22.0A	102	1700	22	147	2450	32.0	19.5
L 415	100	4"	15	20	29.5A	60	1000	42	84	1400	56	11.5
L 615	150	6"	15	20	29.5A	102	1700	30	156	2600	40	19.5

LE • Contractor Dewatering Pump

Capacity: up to 330 m³/h

Head: up to 15 m

Power: 3–9 kW



High Flow, Low Energy Consumption:

The LE is designed for high-flow applications and operates with particularly high energy efficiency.

Robust and Durable:

Heavy cast iron housing and a slow-running motor provide a long service life even under harsh conditions.

Reliable Motor Cooling:

Suction at the pump base, water is discharged upwards. A side flow supports motor cooling.

Reliable Even with Fluctuating Water Levels:

Cooling remains effective even when the motor runs temporarily above the water surface.

For Clear to Slightly Muddy Media:

Ideal for dewatering duties involving clean or turbid water with small sediment particles.

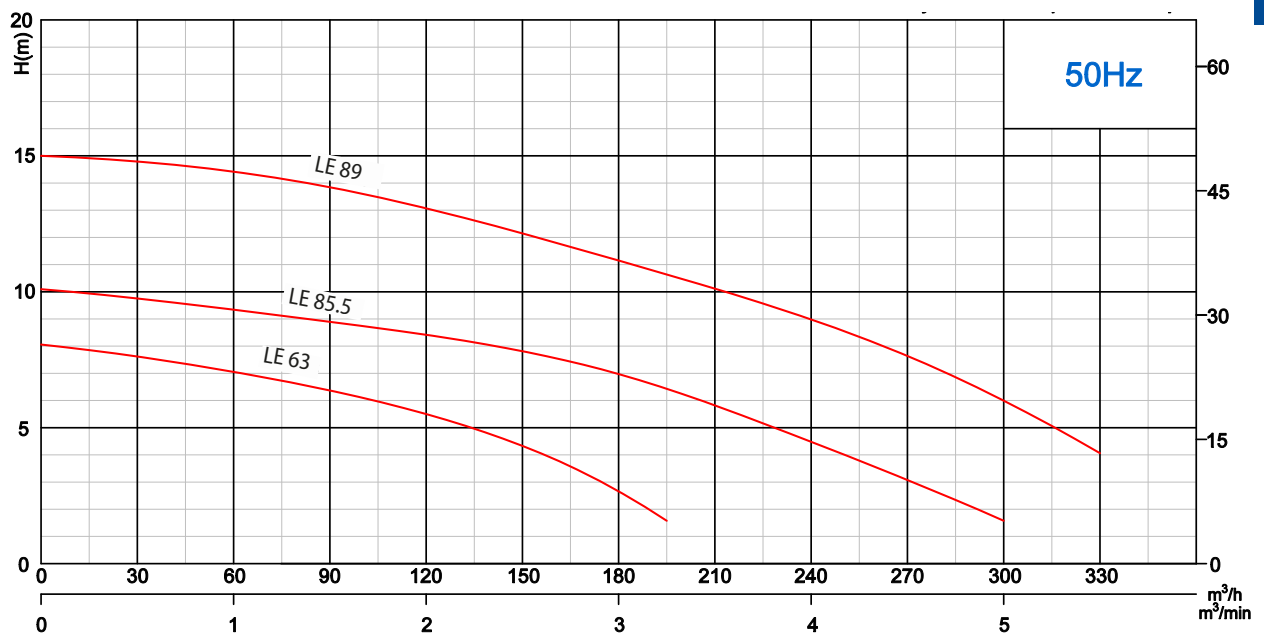
Technical Data

- Water temperature: up to 40°C
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 15 m
- Discharge outlet with male thread

Applications

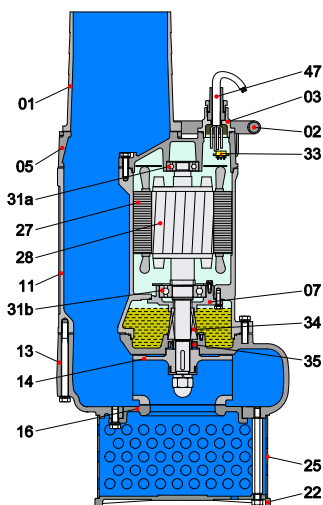
- Civil engineering, excavation and foundation dewatering
- Tunnel construction, drainage of mining pits
- Rivers and ponds: drainage and sediment removal
- Flood control: drainage of clean or muddy water with small sediment particles

Performance Curve



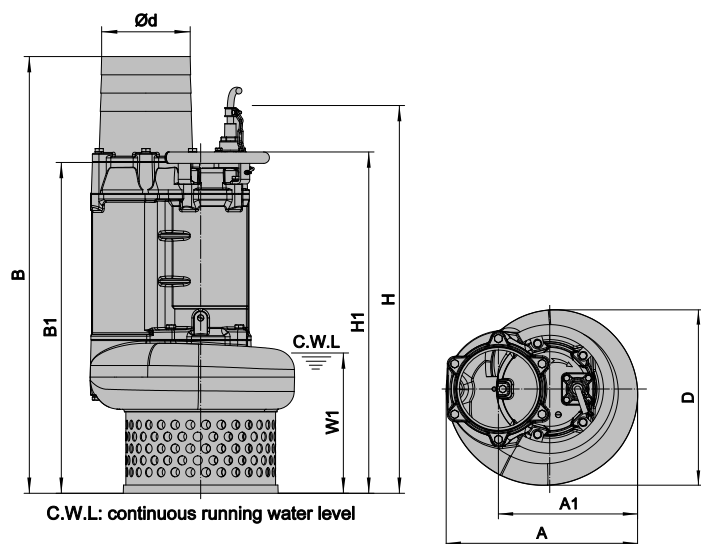
Model (50Hz)	Discharge		Motor output		Rated Current 400V	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
LE 63	150	6"	3	4	6.7A	120	2000	5.5	195	3250	8	15
LE 85.5	200	8"	5.5	7.5	11.7A	180	3000	7	300	5000	10	20
LE 89	200	8"	9.0	12	19.5A	180	3000	11	330	5500	15	30

Part List



No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft AISI420
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions



Model (50Hz)	d	A	A1	B	B1	D	H	H1	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
LE 63	150	386	290	864	702	368	787	725	285	101	113	905x420x500
LE 85.5	200	447	325	957	725	410	809	748	295	131	147	995x485x540
LE 89	200	479	358	938	706	413	789	714	250	175	192	985x515x545

L-HT • High-Temperature Dewatering Pump (80°C)

Capacity: up to 150 m³/h

Head: up to 52 m

Power: 1.5–15 kW



The L-HT series is a high-temperature dewatering pump and is suitable for pumped media up to 80°C.

Compared with the standard L series (pumped media up to 40°C, motor insulation, elastomer components, bearings and motor lubrication are reinforced/optimized for high-temperature operation).

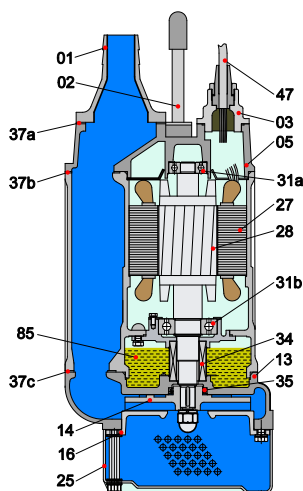
Technical Data

- Water temperature: up to 80°C
- pH value: 6–10
- Power supply: 3~ 400V $\pm$ 10%, 50Hz
- Insulation class: H
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

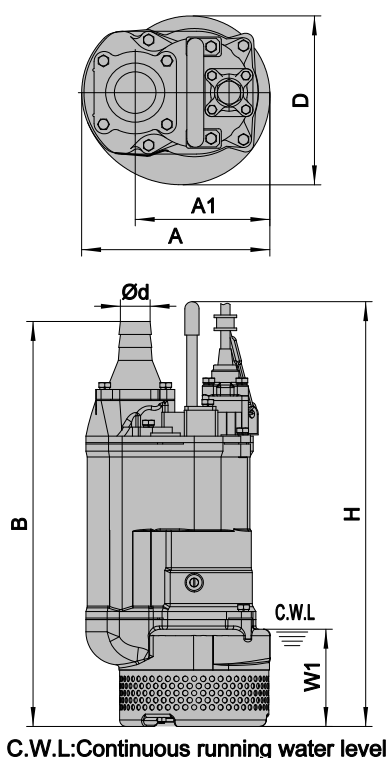
- Civil engineering / construction
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- General pumping applications

Part List



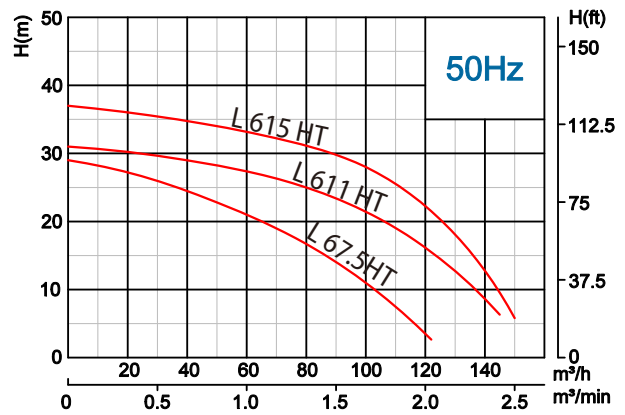
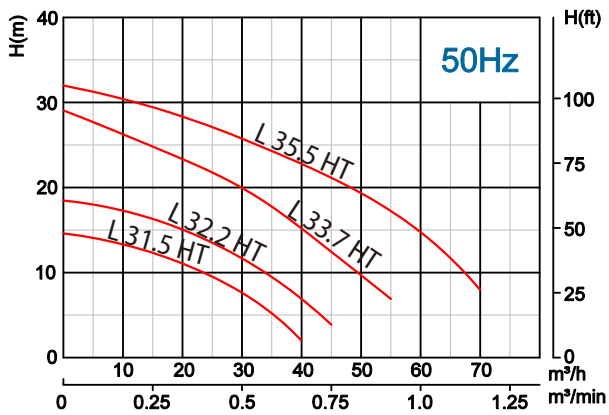
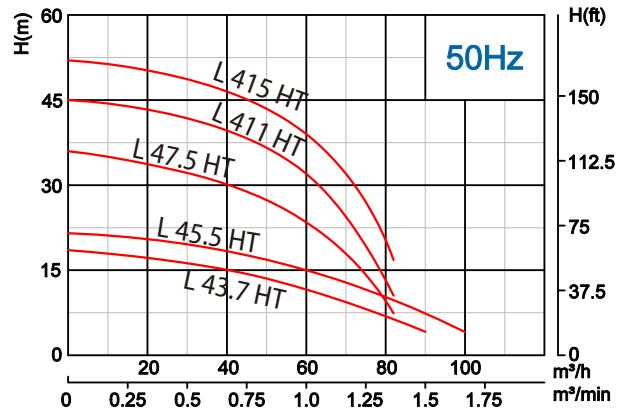
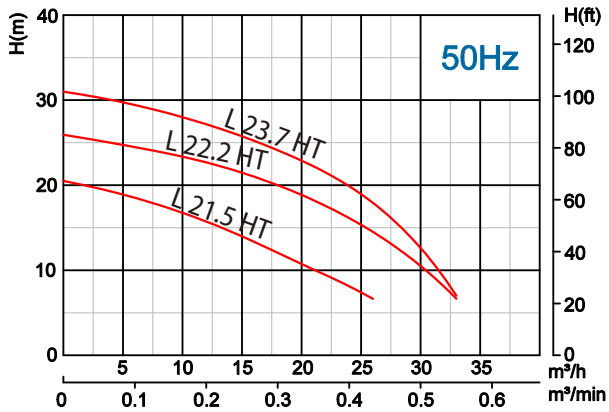
No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI 420
31a	Bearing	High-temperature grease
31b	Bearing	High-temperature grease
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	NBR
	O-ring	FPM (FKM)
37a,b,c	Casing seal	Rubber
47	Cable	Chloroprene rubber
85	Lubricating oil	Lubricating oil, ISO VG 46

Dimensions



Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
50Hz	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
L 21.5HT	50	235	173	543	216	503	120	36	40	620x265x275
L 31.5HT	80	235	173	543	216	503	120	36	40	620x265x275
L 22.2HT	50	235	173	543	216	503	120	39	43	620x265x275
L 32.2HT	80	235	173	543	216	503	120	39	43	620x265x275
L 23.7HT	50	293	216	628	252	629	150	63	68	710x320x295
L 33.7HT	80	293	216	628	252	629	150	63	68	710x320x295
L 43.7HT	100	293	216	628	252	629	150	63	68	710x320x295
L 35.5HT	80	329	240	671	300	590	150	77	84	750x350x335
L 45.5HT	100	329	240	671	300	590	150	77	84	750x350x335
L 47.5HT	100	330	240	750	314	676	190	106	116	835x365x385
L 67.5HT	150	330	240	790	314	676	190	108	119	865x365x385
L 411HT	100	373	255	807	350	695	190	136	148	855x415x435
L 611HT	150	373	255	807	350	695	190	139	150	855x415x435
L 415HT	100	373	255	842	350	755	190	144	158	905x415x435
L 615HT	150	373	255	842	350	755	190	146	160	905x415x435

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 400V	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	Inch	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
L 21.5HT	50	2"	1.5	2	3.5A	15	250	15	26	433	20.5	8.5
L 31.5HT	80	3"	1.5	2	3.5A	30	500	8	40	667	14.5	8.5
L 22.2HT	50	2"	2.2	3	5.0A	18	300	20	33	550	26	8.5
L 32.2HT	80	3"	2.2	3	5.0A	36	600	9	45	750	18.5	8.5
L 23.7HT	50	2"	3.7	5	7.7A	12	200	27	33	550	31	8.5
L 33.7HT	80	3"	3.7	5	7.7A	30	500	20	55	920	29	8.5
L 43.7HT	100	4"	3.7	5	7.7A	60	1000	11.5	90	1500	18.5	8.5
L 35.5HT	80	3"	5.5	7.5	11.4A	36	600	24	70	1167	32	8.5
L 45.5HT	100	4"	5.5	7.5	11.4A	60	1000	15	100	1667	21.5	8.5
L 47.5HT	100	4"	7.5	10	15.0A	48	800	28	82	1367	36	11.5
L 67.5HT	150	6"	7.5	10	15.0A	90	1500	14	122	2033	29	19.5
L 411HT	100	4"	11	15	22.0A	60	1000	32	82	1367	45	11.5
L 611HT	150	6"	11	15	22.0A	102	1700	21	145	2417	31	19.5
L 415HT	100	4"	15	20	29.5A	60	1000	39	80	1333	52	11.5
L 615HT	150	6"	15	20	29.5A	100	1667	28	150	2500	37	19.5

L-S • Dewatering Pump with Level Sensor

Robust Construction and Long Service Life:

Pump casing and motor housing made of cast iron for a long service life. The pressure-resistant mechanical seal is designed for deep immersion. A semi-open impeller made of high chrome alloy with a wear plate made of ductile iron provides high resistance in abrasive media.

Efficient Cooling:

The discharge channel is integrated into the motor housing and provides effective motor cooling and reliable performance.

Automatic Operation:

Integrated control with level sensor enables automatic operation and reduces operating costs.



Advantages

Protection Against Incorrect Rotation:

Phase monitoring ensures the correct direction of impeller rotation.

Protection Against Phase Failure and Blockage:

Shutdown in the event of phase failure or a blocked impeller to prevent damage.

Overload and Voltage Monitoring:

Shutdown in the event of overload or abnormal voltage; automatic restart after 5 minutes.

Temperature Protection:

Shutdown in the event of overtemperature; automatic restart after cooling.

Automatic Water Level Control:

Stops within 60 seconds when the water level drops below the sensor. Starts automatically as soon as the water level reaches the sensor again. The sensor height is adjustable.

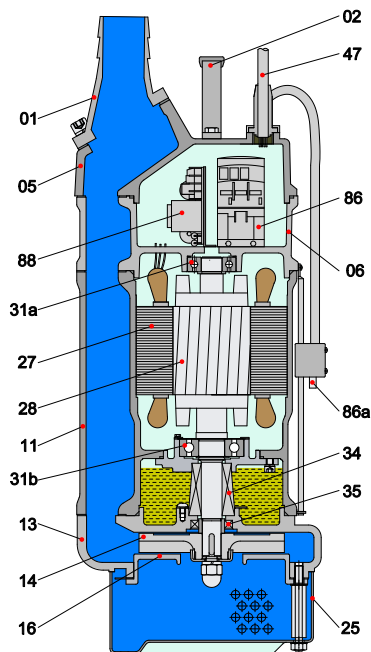
Technical Data

- Water temperature: up to 40°C
- Power supply: 3~ 400V $\pm 10\%$, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

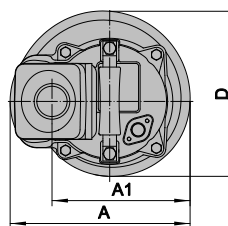
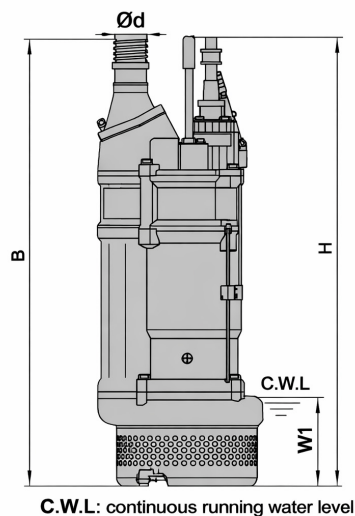
- Civil engineering / construction
- Mines, quarries, coal ore and slurries
- Wastewater treatment plants
- General pumping applications

Part List



No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
06	Upper bearing housing	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14	Impeller	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI 420
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F
86	AC protector	
86a	Water level sensor	
88	Control block	

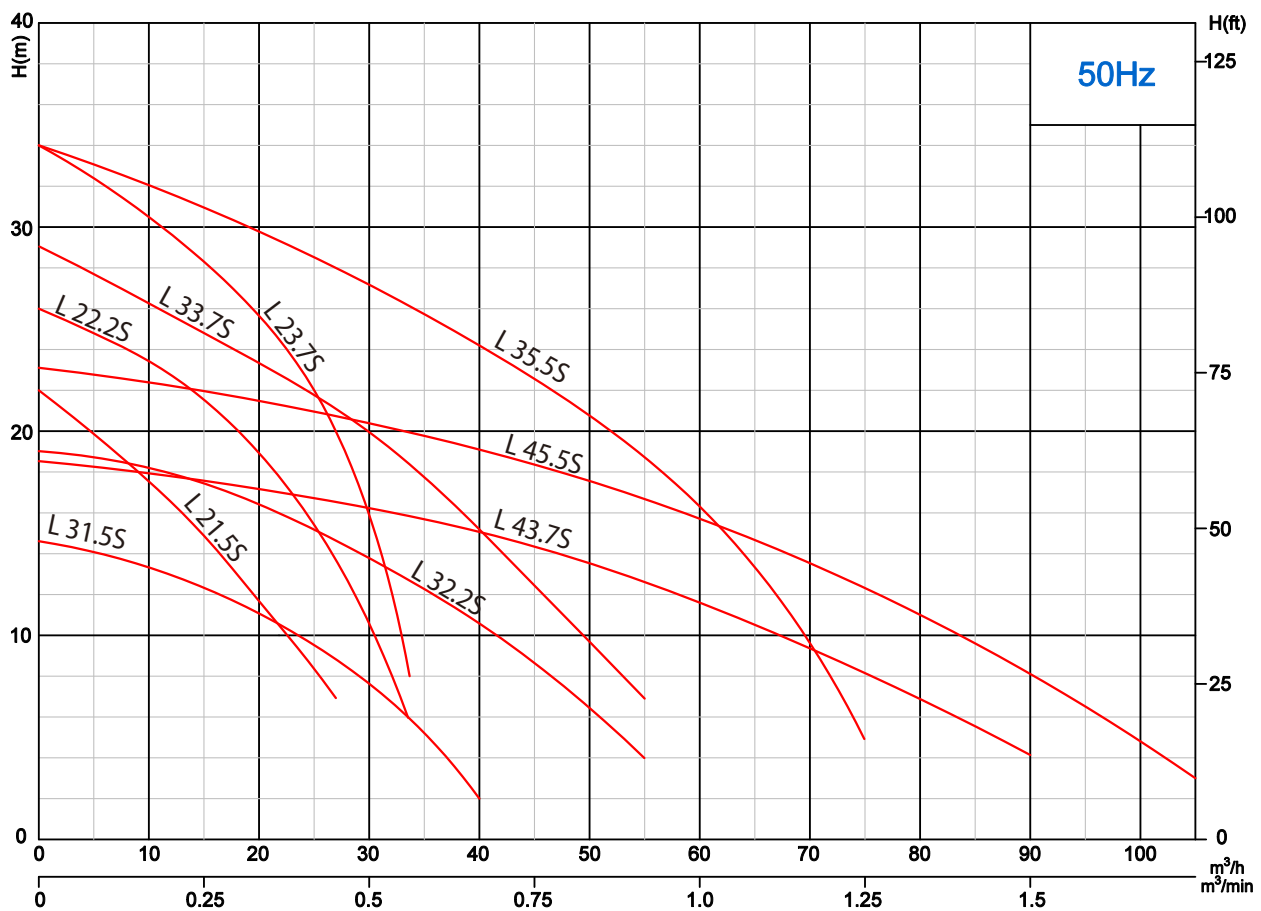
Dimensions



Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
L 21.5 S	50	240	196	623	216	577	120	41	45	695x265x275
L 31.5 S	80	240	204	631	216	577	120	41	45	695x265x275
L 22.2 S	50	240	196	623	216	577	120	44	48	695x265x275
L 32.2 S	80	240	204	631	216	577	120	44	48	695x265x275
L 23.7 S	50	293	234	708	252	708	150	71	76	790x320x305
L 33.7 S	80	293	240	716	252	708	150	71	76	790x320x305
L 43.7 S	100	299	249	729	252	708	150	72	77	790x320x305
L 35.5 S	80	329	259	769	300	663	150	85.5	92.5	845x355x375
L 45.5 S	100	329	268	782	300	663	150	86.5	93.5	845x355x375

S: Indicates a pump with level sensor

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 400V 3~	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	Inch	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
L 21.5 S	50	2"	1.5	2	3.5A	15	250	15	27	450	22	8.5
L 31.5 S	80	3"	1.5	2	3.5A	30	500	8	40	667	15	8.5
L 22.2 S	50	2"	2.2	3	5.0A	18	300	20	33	550	26	8.5
L 32.2 S	80	3"	2.2	3	5.0A	36	600	11	55	920	19	8.5
L 23.7 S	50	2"	3.7	5	7.7A	12	200	30	33	550	34	8.5
L 33.7 S	80	3"	3.7	5	7.7A	30	500	20	55	920	29	8.5
L 43.7 S	100	4"	3.7	5	7.7A	60	1000	12	90	1500	19	8.5
L 35.5 S	80	3"	5.5	7.5	11.4A	36	600	25	75	1250	34	8.5
L 45.5 S	100	4"	5.5	7.5	11.4A	60	1000	16	105	1750	23	8.5

S: Indicates a pump with level sensor

LA • Contractor Dewatering Pump

Capacity: up to 54 m³/h

Head: up to 37 m

Power: 1.5–5.5 kW



Lightweight and Compact:

Portable, lightweight dewatering pump for construction and building applications. The compact design is ideal for confined installation conditions.

Efficient Water Delivery and Cooling:

Suction at the pump base; discharge upward through the discharge outlet. The integrated flow channel in the motor housing provides excellent motor cooling and reliable operation – even at low water levels.

Robust, Wear-Resistant Design:

Housing and components made of lightweight, durable materials (including aluminum alloy and wear-resistant elastomers). Semi-open impeller made of high-chrome alloy for high abrasion resistance.

Protection Against Blockage:

The large clearance between the semi-open impeller and the pump casing reduces clogging caused by sludge or sand and supports trouble-free operation.

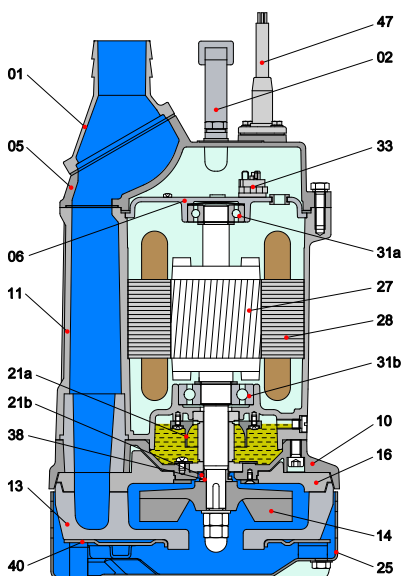
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

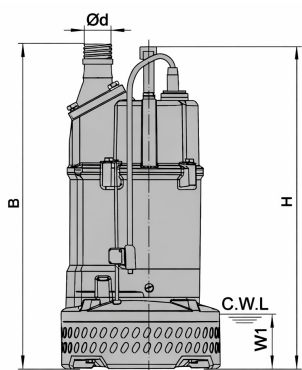
- Construction dewatering
- Basements, pits and utility pits
- Rainwater and sludge water

Part List

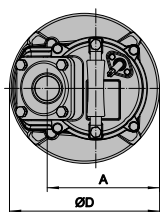


No.	Part	Material
01	Discharge outlet	Die-cast aluminum
02	Carrying handle	Rubber and steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Bearing housing	Die-cast aluminum
11	Motor housing	Die-cast aluminum
13	Pump casing	Rubber, NBR
14	Impeller	Chromium steel, ductile iron
16	Suction plate	Rubber
21a	Oil riser tube	PA66+GF30
21b	Sand guard	NBR
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC
38	Shaft protection sleeve	
40	Clamping plate	Steel
47	Cable	H07RN-F

Dimensions

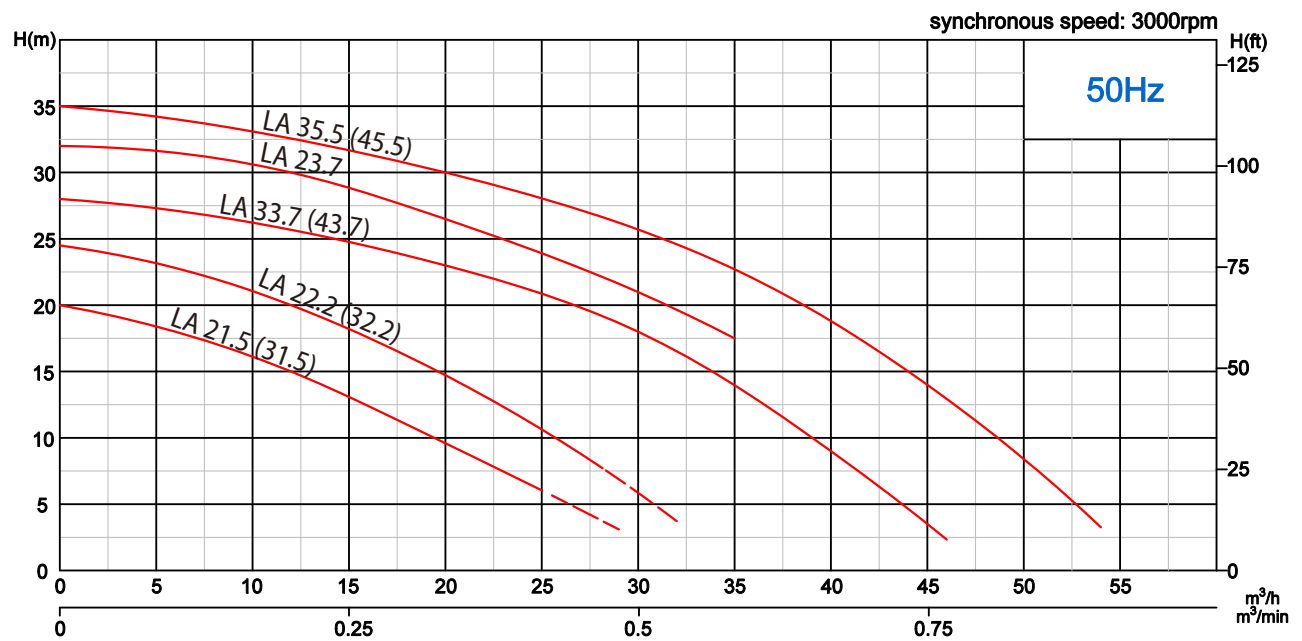


C.W.L.: continuous running water level



Model (50Hz)	d	A	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	kg	kg	mm
LA 21.5	50	180	515	240	515	80	25.5	29.0	600x270x285
LA 31.5	80	190	539	240	515	80	26	29.5	600x270x285
LA 21.5	50	180	445	240	445	80	22.5	26.0	530x270x285
LA 31.5	80	190	469	240	445	80	23	26.5	530x270x285
LA 22.2	50	180	445	240	445	80	25	28.5	530x270x285
LA 32.2	80	190	469	240	445	80	25.5	29.0	530x270x285
LA 33.7	80	224	580	285	582	90	40.5	45.5	670x310x335
LA 43.7	100	224	605	285	582	90	41.5	26.5	670x310x335
LA 35.5	80	224	580	285	582	90	46.5	51.5	670x310x335
LA 45.5	100	224	605	285	582	90	47.5	52.5	670x310x335

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m3/h	l/min	m	m3/h	l/min	m	
LA 21.5	50	2"	1.5	2	10.0A	-	12	200	15	25	420	20	8.5
LA 31.5	80	3"	1.5	2	10.0A	-	12	200	15	29	480	20	8.5
LA 21.5	50	2"	1.5	2	-	3.5A	12	200	15	25	417	20	8.5
LA 31.5	80	3"	1.5	2	-	3.5A	12	200	15	29	480	20	8.5
LA 22.2	50	2"	2.2	3	-	5.0A	12	200	20	28	470	24	8.5
LA 32.2	80	3"	2.2	3	-	5.0A	12	200	20	32	530	24	8.5
LA 33.7	80	3"	3.7	5	-	8.1A	25	420	21	46	770	28	8.5
LA 43.7	100	4"	3.7	5	-	8.1A	25	420	21	46	770	28	8.5
LA 35.5	80	3"	5.5	7.5	-	11.2A	30	500	25	54	900	35	8.5
LA 45.5	100	4"	5.5	7.5	-	11.2A	30	500	25	54	900	35	8.5

LA-S • Dewatering Pump with Level Sensor

Capacity: up to 54 m³/h

Head: up to 37 m

Power: 1.5–5.5 kW

Lightweight and Compact:

Portable, lightweight dewatering pump for construction and building applications. The compact design is ideal for confined installation conditions.

Efficient Water Delivery and Cooling:

Suction at the pump base; discharge upward through the discharge outlet. The integrated flow channel in the motor housing provides excellent motor cooling and reliable operation even at low water levels.

Robust, Wear-Resistant Design:

Housing and components made of lightweight, durable materials (including aluminum alloy and wear-resistant elastomers). Semi-open impeller made of high-chrome alloy for high abrasion resistance.

Protection Against Blockage:

The large clearance between the semi-open impeller and the pump casing reduces clogging caused by sludge or sand and supports trouble-free operation.

Advantages

- Protection against incorrect rotation (three-phase)
- Overload / undervoltage or overvoltage: stop, automatic restart after 5 min
- Temperature protection: stop in case of overheating, automatic restart after cooling
- Adjustable level sensor for precise start/stop levels
- Low water level -> stop ≤ 60 s; when water reaches the sensor again -> start
- Fault memory / operating history (three-phase only)



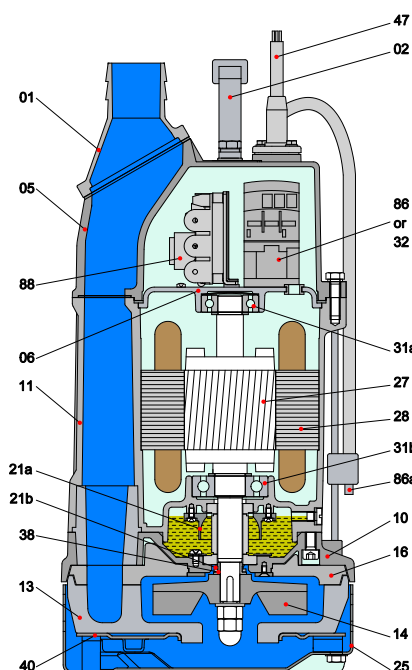
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 1~ 230V ±10%, 50Hz
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

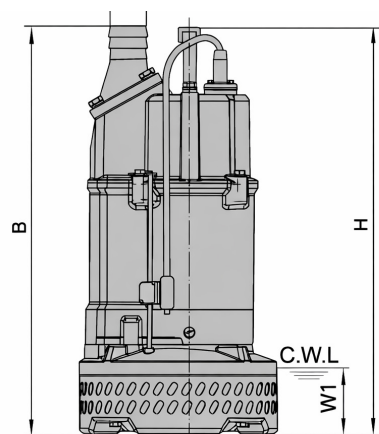
- Construction dewatering
- Basements, pits and utility pits
- Rainwater and sludge water

Part List

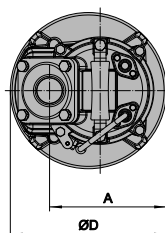


No.	Part	Material
01	Discharge outlet	Die-cast aluminum
02	Carrying handle	Rubber & steel
05	Upper cover	Die-cast aluminum
06	Upper bearing housing	Cast iron
10	Seal housing	Die-cast aluminum
11	Motor housing	Die-cast aluminum
13	Pump body	NBR
14	Impeller	Ductile iron
16	Plate	NBR
21a	Oil riser tube	NBR
21b	Sand guard	PA66+GF30
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	single-phase operation only
34	Mechanical seal	SiC-SiC / Carbon-SiC
38	Shaft protection sleeve	
40	Clamping plate	
47	Cable	H07RN-F
86	AC protector	three-phase only
86a	Water level sensor	
88	Control block	

Dimensions



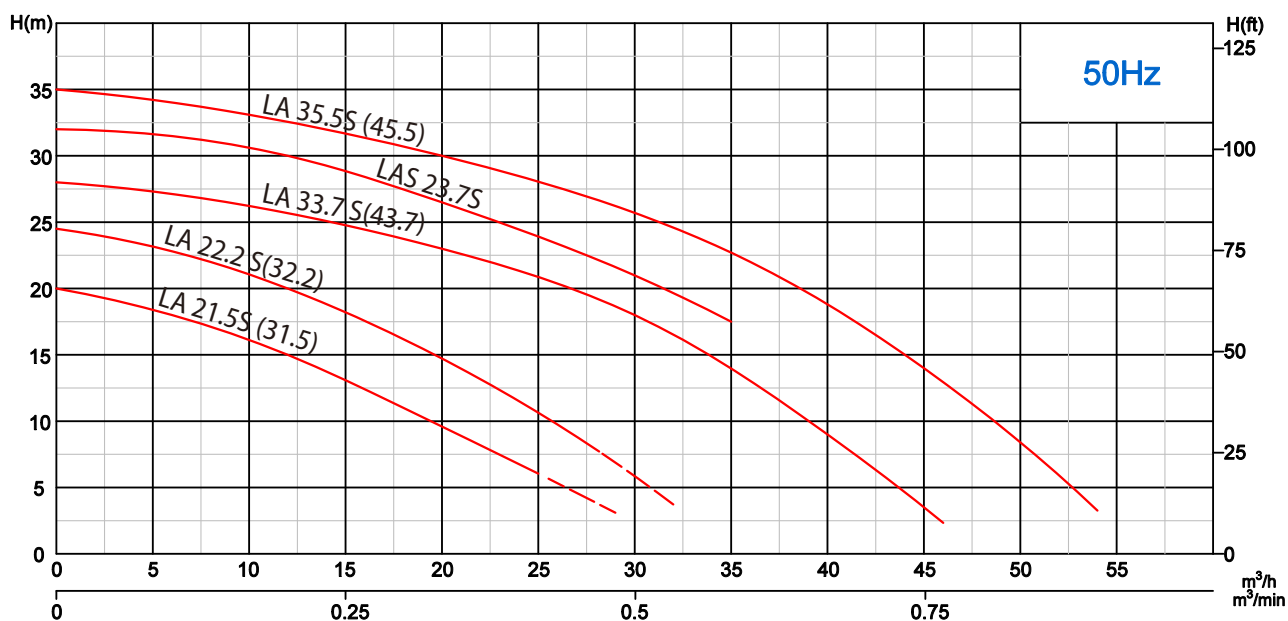
C.W.L.: continuous running water level



Model (50Hz)	d	A	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	kg	kg	mm
LA 21.5 S	50	178	515	240	515	80	26.5	31.0	600x270x285
LA 31.5 S	80	190	550	240	515	80	27	32.0	600x270x285
LA 21.5 S	50	178	515	240	515	80	24.5	29.0	600x270x285
LA 31.5 S	80	190	550	240	515	80	25	30.0	600x270x285
LA 22.2 S	50	178	515	240	515	80	27	31.0	600x270x285
LA 32.2 S	80	190	550	240	515	80	27.5	32.5	600x270x285

S: Indicates a pump with level sensor

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m3/h	l/min	m	m3/h	l/min	m	mm
LA 21.5 S	50	2"	1.5	2	10.0A	-	12	200	15	25	417	20	8.5
LA 31.5 S	80	3"	1.5	2	10.0A	-	12	200	15	29	483	20	8.5
LA 21.5 S	50	2"	1.5	2	-	3.5A	12	200	15	25	417	20	8.5
LA 31.5 S	80	3"	1.5	2	-	3.5A	12	200	15	29	483	20	8.5
LA 22.2 S	50	2"	2.2	3	-	5.0A	12	200	20	28	467	24	8.5
LA 32.2 S	80	3"	2.2	3	-	5.0A	12	200	20	32	533	24	8.5

S: Indicates a pump with level sensor

LM • Submersible Slurry Pump

- Power: 1.5 kW – 5.5 kW
- Capacity: up to 100 m³/h
- Head: up to 32 m



Robust Design for Heavy-Duty Applications:

Pump casing and motor housing made of cast iron; mechanical seal for heavy-duty service. Impeller made of high-chrome cast iron – durable and wear-resistant.

Efficient Pumping & Cooling:

The side flow path with discharge outlet (top discharge outlet) guides the pumped medium through the motor channel and ensures reliable motor cooling – even in confined installation conditions.

Agitator Support:

The integrated agitator loosens settled material at the suction point and keeps it in suspension. This ensures even suction and stable pumping performance.

Ideal for Demanding Media:

Optimized for pumping bentonite-containing suspensions, sludge-water mixtures and construction slurries – e.g. during foundation work.

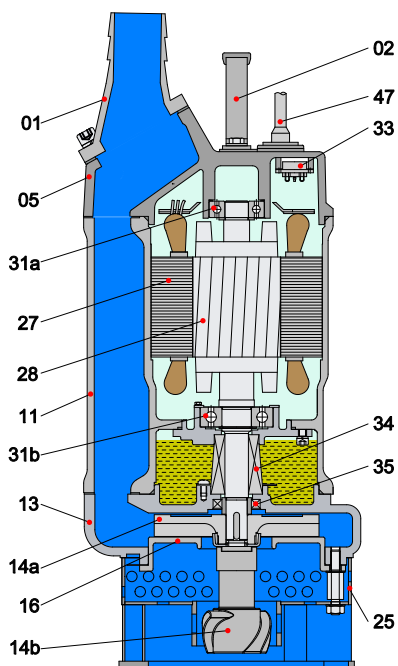
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

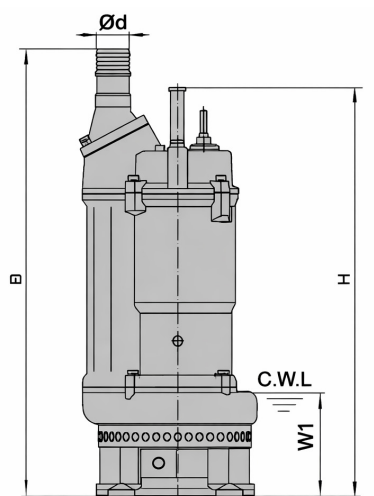
- Civil engineering and construction
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- General pumping applications

Part List

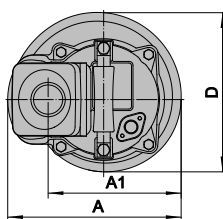


No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions

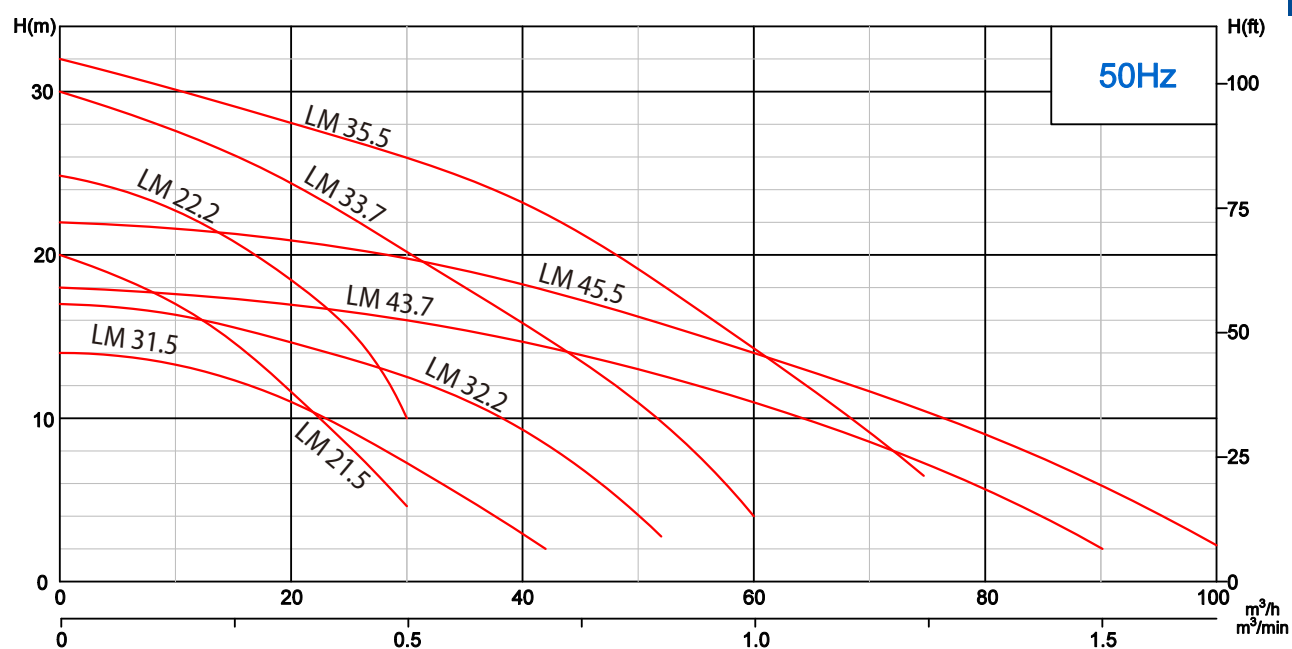


C.W.L: continuous running water level



Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
LM 21.5	50	240	196	568	216	522	135	40	41	640x265x275
LM 31.5	80	240	204	576	216	522	135	37	41	640x265x275
LM 22.2	50	240	196	568	216	522	135	40	44	640x265x275
LM 32.2	80	240	204	576	216	522	135	40	44	640x265x275
LM 33.7	80	293	240	650	252	642	165	64	69	725x320x295
LM 43.7	100	293	249	663	252	642	165	65	70	725x320x295
LM 35.5	80	329	259	712	300	606	165	78	85	790x350x335
LM 45.5	100	329	268	725	300	606	165	79	86	790x350x335

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m3/h	l/min	m	m3/h	l/min	m	mm
LM 21.5	50	2"	1.5	2	-	3.5A	15	250	15	30	500	20	10
LM 31.5	80	3"	1.5	2	-	3.5A	30	500	7	42	700	14	10
LM 22.2	50	2"	2.2	3	-	5.0A	18	300	19	30	500	25	10
LM 32.2	80	3"	2.2	3	-	5.0A	36	600	11	52	867	17	10
LM 33.7	80	3"	3.7	5	-	7.7A	30	500	20	60	1000	30	10
LM 43.7	100	4"	3.7	5	-	7.7A	60	1000	11	90	1500	18	10
LM 35.5	80	3"	5.5	7.5	-	11.4A	36	600	24	74	1233	32	10
LM 45.5	100	4"	5.5	7.5	-	11.4A	60	1000	14	100	1667	22	10

LM-S • Submersible Slurry Pump with Level Sensor

Capacity: up to 100 m³/h

Head: up to 32 m

Power: 1.5 kW – 5.5 kW

Robust and Durable:

Pump casing and motor housing made of cast iron; mechanical seal for heavy-duty service. A semi-open impeller made of high-chrome cast iron and a durable suction plate provide high resistance and long service life.

Efficient Cooling:

Suction at the pump base, discharge upward through the side wall channel in the motor housing (top discharge outlet). This ensures reliable motor cooling.

Agitator Support:

The agitator ensures even flow of the pumped medium at the suction side and keeps settled material in suspension – this improves suction and stabilizes pumping performance.

Ideal for Sludge Water:

Particularly suitable for concrete/sludge water in foundation work and similar demanding applications.



Advantages

- Protection against incorrect rotation (three-phase only): phase monitoring ensures the correct direction of rotation.
- Protection against phase failure or blockage (three-phase only): automatic shut-off to prevent damage.
- Overload as well as under- or overvoltage: stop and automatic restart after 5 minutes.
- Temperature protection: shut-off in case of overheating, automatic restart after cooling.
- Automatic water level control (level sensor): stop ≤ 60 s at low water level; start when the water level rises.
- Sensor height adjustable.
- Operating data (three-phase only): display of operating hours and storage of the latest fault messages.

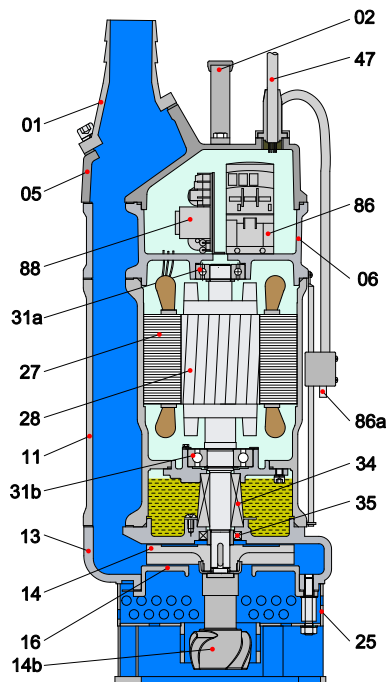
Technical Data

- Water temperature: up to 40°C
- pH value: 6.5–8.5
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Maximum immersion depth: 25 m

Applications

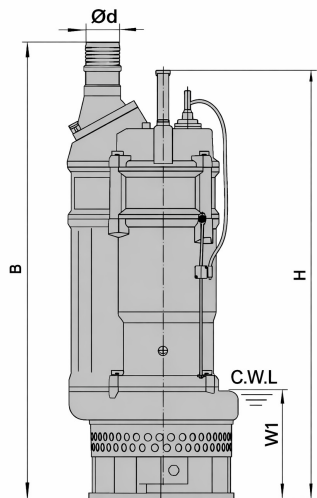
- Construction and civil engineering, foundation and excavation works, e.g. bentonite and drilling sludge
- Mines, quarries, coal mines and slurries
- Wastewater treatment plants and sludge treatment
- General pumping applications

Part List

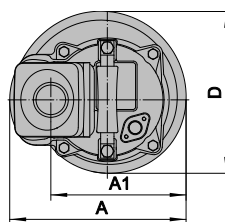


No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber & steel
05	Upper cover	Cast iron
06	Bearing housing	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16	Suction plate	Ductile iron
25	Strainer	Steel
27	Stator	Steel
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F
86	AC protector	
86a	Water level sensor	
88	Control block	

Dimensions



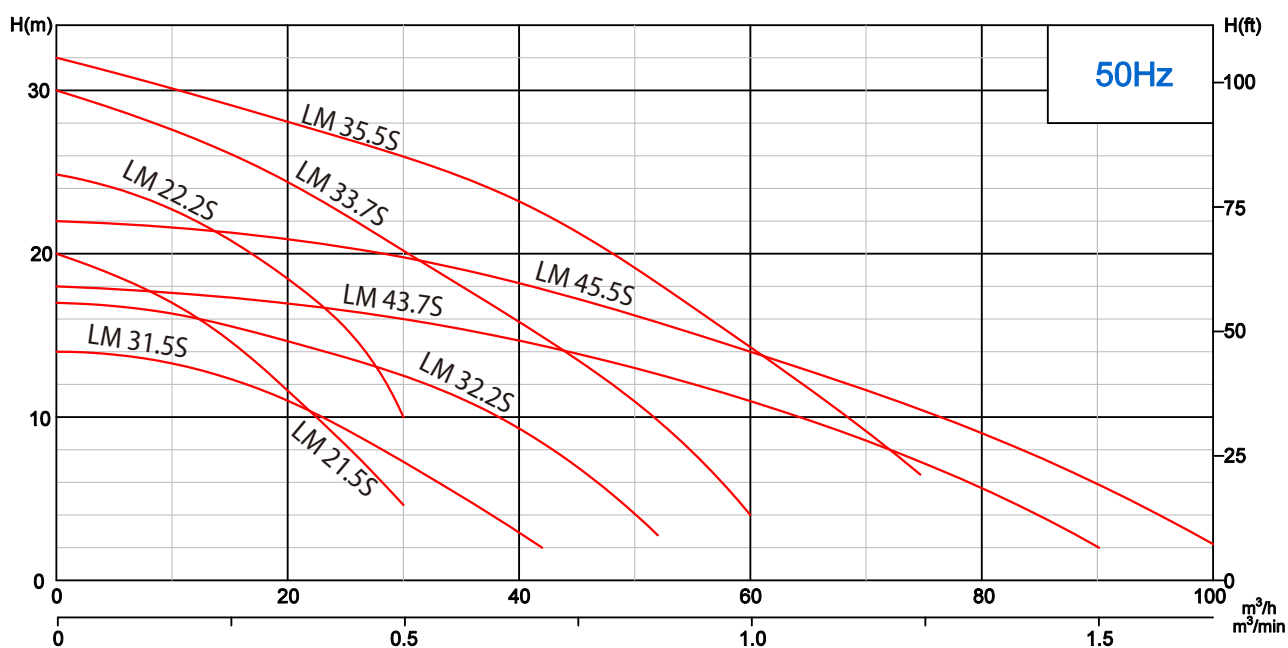
C.W.L.: continuous running water level



Model (50Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
LM 21.5 S	50	240	196	640	216	594	135	43	47	710x265x275
LM 31.5 S	80	240	204	648	216	594	135	43	47	710x265x275
LM 22.2 S	50	240	196	640	216	594	135	46	50	710x265x275
LM 32.2 S	80	240	204	648	216	594	135	46	50	710x265x275
LM 33.7 S	80	293	240	729	252	721	165	72	77	805x320x295
LM 43.7 S	100	293	249	742	252	721	165	73	78	805x320x295
LM 35.5 S	80	329	259	782	300	676	165	86	93	825x355x375
LM 45.5 S	100	329	268	795	300	676	165	87	94	865x355x375

S: Indicates a pump with level sensor

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 3~	Optimal capacity and head			Maximum capacity and head			Solids passage
	mm	inch	kW	HP		m³/h	l/min	m	m³/h	l/min	m	
LM 21.5 S	50	2"	1.5	2	3.5A	15	250	15	30	500	20	10
LM 31.5 S	80	3"	1.5	2	3.5A	30	500	7	42	700	14	10
LM 22.2 S	50	2"	2.2	3	5.0A	18	300	19	30	500	25	10
LM 32.2 S	80	3"	2.2	3	5.0A	36	600	11	52	867	17	10
LM 33.7 S	80	3"	3.7	5	7.7A	30	500	20	60	1000	30	10
LM 43.7 S	100	4"	3.7	5	7.7A	60	1000	11	90	1500	18	10
LM 35.5 S	80	3"	5.5	7.5	11.4A	36	600	24	74	1233	32	10
LM 45.5 S	100	4"	5.5	7.5	11.4A	60	1000	14	100	1667	22	10

S: Indicates a pump with level sensor

LB • Submersible Slurry Pump

Capacity: up to 390 m³/h

Head: up to 39 m

Power: 4.0–37 kW



Reliable Performance:

High-performance submersible slurry pump with 4-pole motor – designed for long service life, operational reliability and continuous duty.

Optimized for Heavy Media:

High-chrome impeller combined with agitator keeps sediment in suspension and supports suction – ideal for heavy, abrasive media.

Compact Design and Top Discharge:

The slim pump casing makes installation easier in narrow shafts. The top discharge supports constant motor cooling.

Proven on Construction Sites:

Proven in excavation pits, foundation works and wherever sludge water or bentonite-containing water must be pumped reliably.

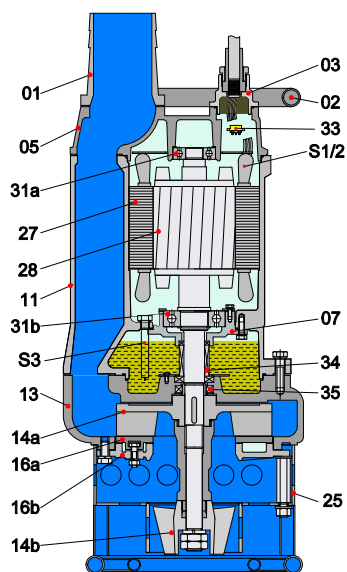
Technical Data

- Water temperature: up to 40°C
- Power supply: 3~ 400V ±10%, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 15 m

Applications

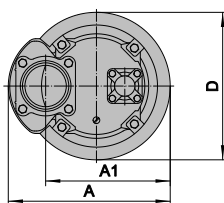
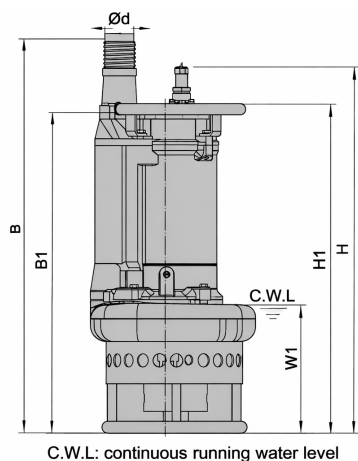
- Civil engineering, foundation and groundwork
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- Pumped medium: sludge and liquid mixtures with sludge and bentonite

Part List



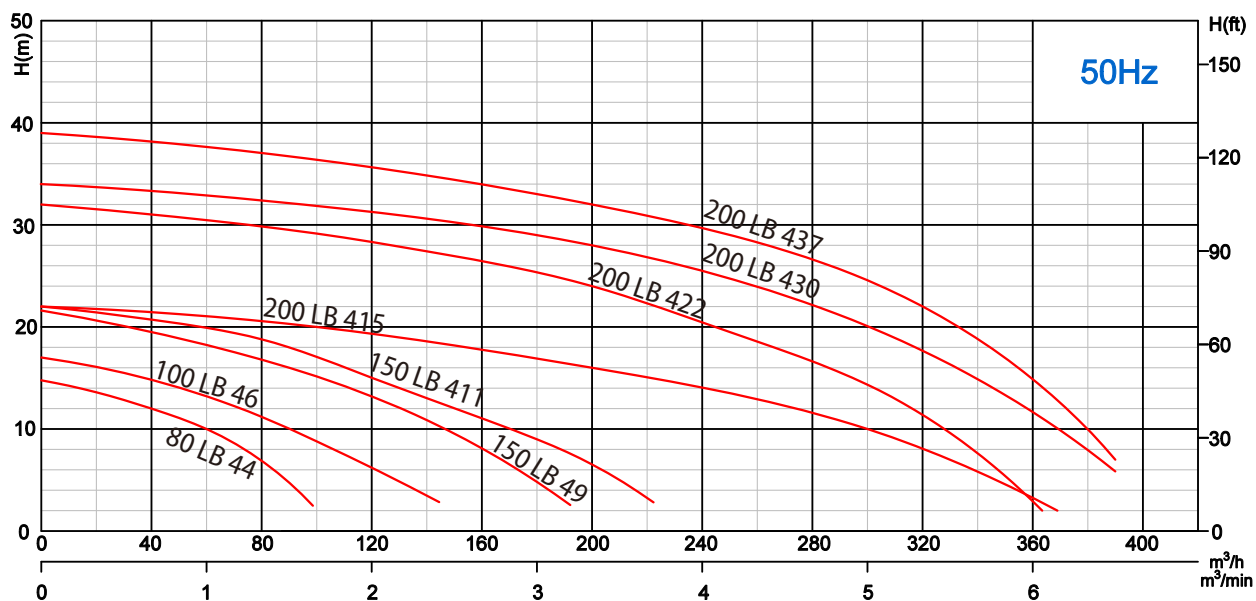
No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Steel
05	Upper cover	Cast iron
07	Bearing housing	Cast iron
11	Motor housing	Cast iron
13	Pump casing	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16a	Suction plate	High chrome alloy
16b	Suction plate	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	4–11 kW
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F
S1/2	Overtemperature protection	15–37 kW
S3	Oil-water leakage sensor	optional (only for pumps > 22 kW)

Dimensions



Model (50 Hz)	d	A	A1	B	B1	D	H	H1	W1	N.G	B.G	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
80 LB 44	80	366	270	802	680	340	765	700	250	108.5	119	855x385x395
100 LB 46	100	420	308	844	683	378	768	720	250	141	151	880x450x455
150 LB 49	150	434	324	889	727	407	813	735	250	171	183	940x470x475
150 LB 411	150	434	324	926	765	407	850	802	250	197	210	980x465x465
200 LB 415	200	484	352	1121	890	457	1025	935	295	260	290	1285x570x705
200 LB 422	200	575	442	1243	1011	528	1200	1040	330	408	458	1455x660x765
200 LB 430	200	622	469	1378	1147	543	1345	1198	432	510	560	1565x700x775
200 LB 437	200	622	469	1378	1147	543	1345	1198	432	535	585	1565x700x775

Performance Curve



Model (50Hz)	Discharge		Motor output		Starting Method		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	DOL / S-D	3~	m3/h	l/min	m	m3/h	l/min	m	
80 LB 44	80	3"	4	5.5	DOL	10.2A	60	1000	10	99	1650	14.8	30
100 LB 46	100	4"	6	8	DOL	13.8A	90	1500	10	144	2400	16.9	30
150 LB 49	150	6"	9	12	DOL	19.5A	100	1667	15	192	3200	21.5	30
150 LB 411	150	6"	11	15	DOL	22.0A	120	2000	15	234	3900	22	30
200 LB 415	200	8"	15	20	DOL	30.1A	200	3333	16	372	6200	22	30
200 LB 422	200	8"	22	30	SD	42.0A	200	3333	24	360	6000	32	30
200 LB 430	200	8"	30	40	SD	57.6A	200	3333	28	390	6500	34	30
200 LB 437	200	8"	37	50	SD	69.8A	200	3333	32	390	6500	39	30

LT • Submersible Slurry Pump

Capacity: up to 246 m³/h

Head: up to 27 m

Power: 2.2–11 kW



Robust and Reliable:

High-performance submersible slurry pump with 4-pole motor and cast iron housing for a long service life.

For Sludge-Containing and Abrasive Media:

High-chrome impeller and agitator are designed for heavy slurries and abrasive solids.

Improved Suction:

The agitator keeps sediment in suspension and supports an even inflow at the suction side.

Cooling Jacket for Low Water Levels:

The integrated cooling water jacket enables longer operation even at low water level, without overheating the motor.

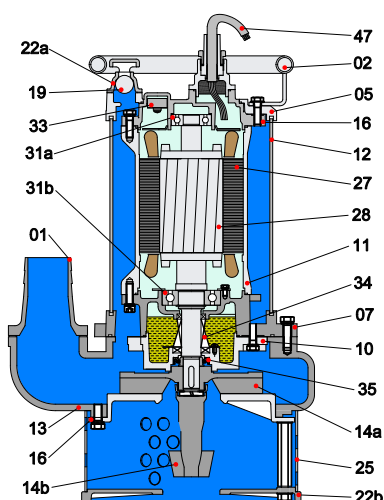
Applications

- Civil engineering
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- General pumping applications
- Pumped medium: sludge as well as liquid mixtures with sludge and bentonite

Technical Data

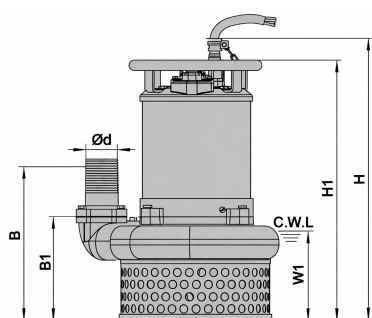
- Water temperature: up to 40°C
- Power supply: 3~ 400 V $\pm$ 10 %, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Maximum immersion depth: 20 m

Part List

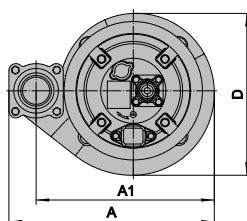


No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Steel
05	Upper cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Cast iron
12	Outer casing	Steel
13	Pump casing	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16	Suction plate	Ductile iron
19	Check valve	NBR
22a	Valve seat	Cast iron
22b	Valve seat assembly	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / SiC-SiC (< 5.5 kW) TC-SiC / SiC-SiC (11 kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions

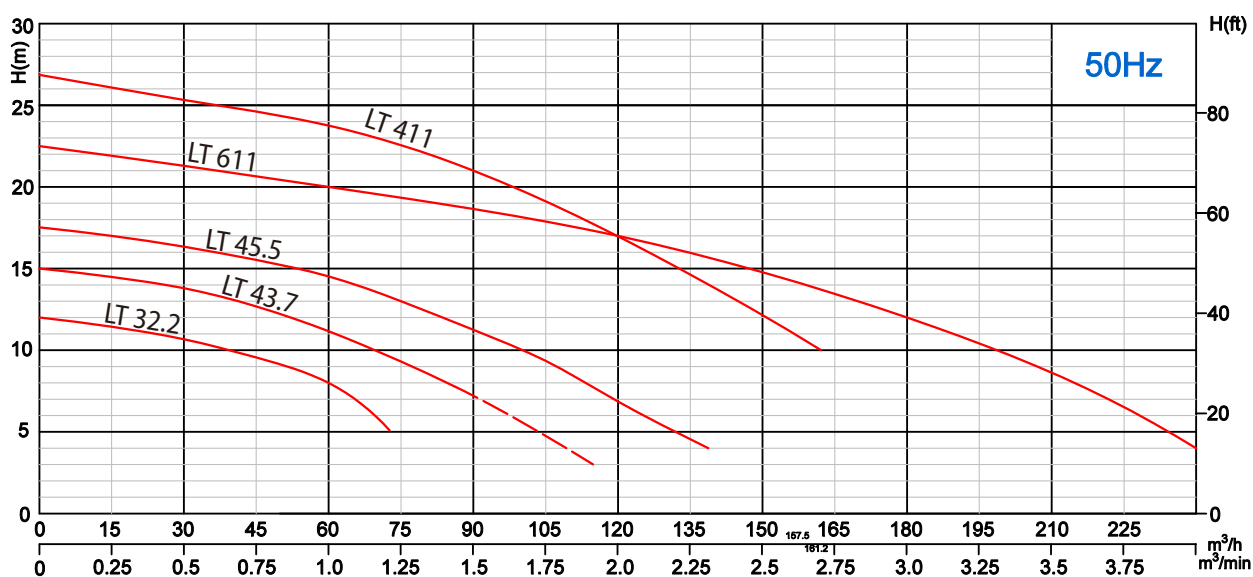


C.W.L.: continuous running water level



Model (50Hz)	d	A	A1	B	B1	D	H	H1	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
LT 32.2	80	469	408	378	257	371	685	625	230	92	99	765x405x515
LT 33.7	80	469	408	378	257	371	750	690	230	108	116	830x405x515
LT 43.7	100	469	408	378	257	371	750	690	230	108	116	830x405x515
LT 45.5	100	494	433	383	262	386	795	735	225	139	151	835x425x560
LT 411	100	598	505	436	275	441	862	802	240	210	226	910x475x665
LT 611	150	598	505	436	275	441	862	802	240	210	226	910x475x665

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
LT 32.2	80	3"	2.2	3	5.5A	36	600	10	72	1200	12	20
LT 33.7	80	3"	3.7	5	8.2A	36	600	13.5	86.4	1440	15	20
LT 43.7	100	4"	3.7	5	8.2A	60	1000	11	114	1900	15	20
LT 45.5	100	4"	5.5	7.5	11.7A	65	1083	14	138	2300	17.5	30
LT 411	100	4"	11.0	15	22.0A	60	1000	24	162	2700	27	20
LT 611	150	6"	11.0	15	22.0A	120	2000	17	246	4100	22.5	30

D • Submersible Dewatering Pump

Capacity: up to 168 m³/h

Head: up to 57 m

Power: 0.25 kW–15.0 kW



Compact and Powerful:

Compact design with high performance and excellent resistance to abrasive media – ideal for construction and tunnel works.

Durable and Long-Lasting:

Pump casing and motor housing made of stainless steel or cast iron for maximum durability. Semi-open impeller made of high-chrome alloy with wear plate (ductile iron) for a long service life.

Efficient Motor and Pump Cooling:

The discharge channel as part of the motor housing ensures reliable motor cooling – even in partial dry-running conditions.

Safety and Protection:

Hermetically sealed motor with integrated thermal protection for reliable and safe operation.

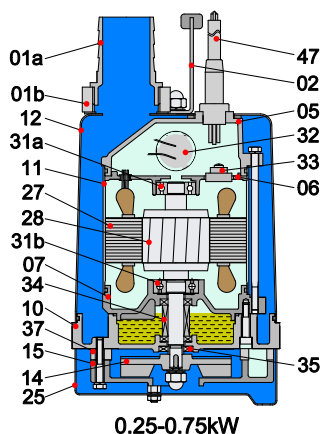
Technical Data

- Water temperature: up to 40°C
- Insulation class: F
- Protection class: IP68
- Power supply: 1~ 230 V $\pm$ 10 %, 50Hz
- Power supply: 3~ 400 V $\pm$ 10 %, 50Hz
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Maximum immersion depth: 10 m (0.25–0.75 kW) / 25 m (1.1–15 kW)

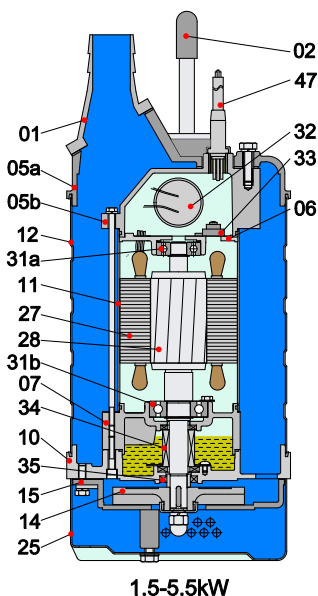
Applications

- Dewatering of spring water, rainwater, groundwater and sandy water
- Mines, quarries, construction, tunnel construction
- Wastewater treatment plants and industrial wastewater treatment
- General pumping applications, pumping of sludge and liquid mixtures with sludge and bentonite

Part List

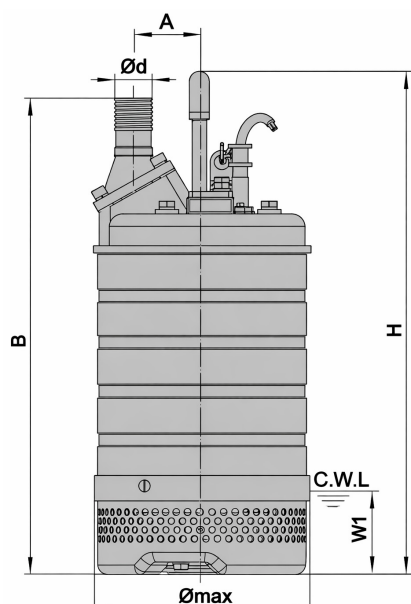


No.	Part	Material
01a	Discharge outlet	Cast iron
01b	Discharge outlet	PA6
02	Carrying handle	Rubber & stainless steel (AISI304SS)
05	Upper cover	Cast iron
06	Upper bearing housing	Die-cast aluminum
07	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Stainless steel
12	Outer casing	Stainless steel
14	Impeller	Ductile iron
15	Diffuser	Cast iron
25	Strainer	Stainless steel
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	SiC-Ceramic / Ceramic-Carbon
35	Oil seal	
37	Seal	NBR
47	Cable	H07RN-F



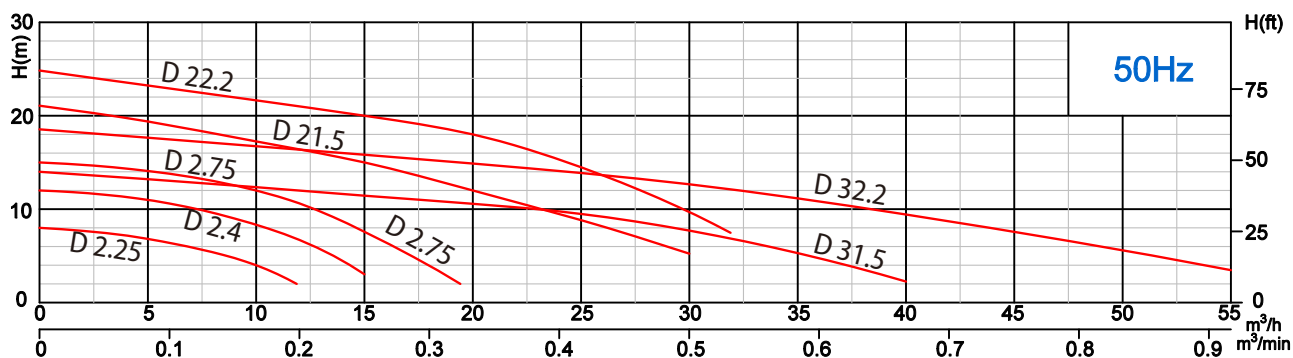
No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Rubber and steel
05a	Upper cover	Cast iron
05b	Upper cover	Cast iron
06	Upper bearing housing	Cast iron
07	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Stainless steel
12	Outer casing	Stainless steel
14	Impeller	High chrome alloy
15	Diffuser	Ductile iron
25	Strainer	Stainless steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	single-phase operation only
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (3.7-5.5 kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions



Model	Phase	A	H	B	Ømax	W1	N.W	G.W	Packaging dimensions
D 2.25F	1~	42	347	342	184	50	14	15	385x225x250
D 2.4F	1~	42	347	342	184	50	15	16	385x225x250
D 2.75F	1~	42	367	362	184	50	17	18	405x225x250
D 21.5F	1~	75	582	569	240	87	37	41	660x270x315
D 31.5F	1~	83	582	577	240	87	37	41	660x270x315
D 21.5	3~	75	563	550	240	87	37	41	620x270x315
D 31.5	3~	83	563	558	240	87	39	43	690x270x315
D 22.2	3~	75	563	550	240	87	37	41	620x270x315
D 32.2	3~	83	563	558	240	87	39	43	690x270x315
D 21.5F	3~	75	613	600	260	87	40	44	620x270x315
D 31.5F	3~	83	613	608	260	87	42	46	690x270x315
D 22.2F	3~	75	613	600	260	87	40	44	620x270x315
D 32.2F	3~	83	613	608	260	87	42	46	690x270x315
D 23.7	3~	74	514	591	300	76	58	64	670x320x345
D 33.7	3~	80	514	600	300	76	60	66	730x320x345
D 43.7	3~	88	514	613	300	76	58	64	670x320x345
D 35.5	3~	80	554	640	300	76	60	66	730x320x345
D 45.5	3~	88	554	653	300	76	59	65	670x320x345
D 23.7F	3~	74	569	646	320	76	61	67	730x320x345
D 33.7F	3~	80	569	655	320	76	66	72	710x320x355
D 43.7F	3~	88	569	668	320	76	68	74	770x320x355
D 35.5F	3~	80	609	695	320	76	67	73	710x320x355
D 45.5F	3~	88	609	708	320	76	69	75	770x320x355
D 47.5	3~	54	696	810	355	142	108	120	895x395x455
D 67.5	3~	54	696	810	355	142	110	122	895x395x455
D 411	3~	54	741	855	355	142	123	135	925x395x455
D 611	3~	54	741	855	355	142	125	137	925x395x455
D 415	3~	54	768	882	355	142	145	157	965x395x455
D 615	3~	54	768	882	355	142	146	158	965x395x455

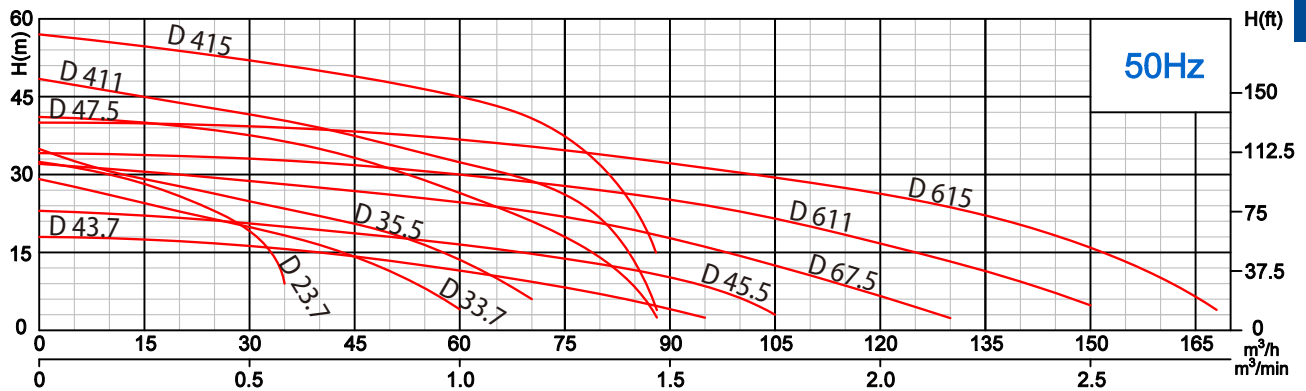
Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 230V / 400V		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	Inch	kW	HP	1~	3~	m³/h	l/min	m	m³/h	l/min	m	mm
D 2.25F	50	2"	0.25	0.35	2.0A	-	6	100	7	12	200	8	6
D 2.4F	50	2"	0.4	0.55	3.0A	-	8	133	10	14.5	242	12	6
D 2.75F	50	2"	0.75	1	5.0A	-	10	167	12	19.5	325	15	6
D 21.5F	50	2"	1.5	2	10.0A	-	15	250	15	30	500	21	8.5
D 31.5F	80	3"	1.5	2	10.0A	-	27	450	9	42	700	14	8.5
D 21.5	50	2"	1.5	2	-	3.5A	15	250	15	30	500	21	8.5
D 21.5F	50	2"	1.5	2	-	3.5A	15	250	15	30	500	21	8.5
D 31.5	80	3"	1.5	2	-	3.5A	27	450	9	42	700	14	8.5
D 31.5F	80	3"	1.5	2	-	3.5A	27	450	9	42	700	14	8.5
D 22.2	50	2"	2.2	3	-	5.0A	20	333	18	32	533	25	8.5
D 22.2F	50	2"	2.2	3	-	5.0A	20	333	18	32	533	25	8.5
D 32.2	80	3"	2.2	3	-	5.0A	36	600	11	55	917	18.5	8.5
D 32.2F	80	3"	2.2	3	-	5.0A	36	600	11	55	917	18.5	8.5

F: Indicates a pump equipped with float switch

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 400V		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	Inch	kW	HP	1~	3~	m3/h	l/min	m	m3/h	l/min	m	mm
D 23.7	50	2"	3.7	5	-	7.7A	18	300	26	36	600	32	8.5
D 23.7F	50	2"	3.7	5	-	7.7A	18	300	26	36	600	32	8.5
D 33.7	80	3"	3.7	5	-	7.7A	35	583	18.5	60	1000	29	8.5
D 33.7F	80	3"	3.7	5	-	7.7A	35	583	18.5	60	1000	29	8.5
D 43.7	100	4"	3.7	5	-	7.7A	60	1000	11.5	95	1583	18	8.5
D 43.7F	100	4"	3.7	5	-	7.7A	60	1000	11.5	95	1583	18	8.5
D 35.5	80	3"	5.5	7.5	-	11.4A	45	750	22	72	1200	35	8.5
D 35.5F	80	3"	5.5	7.5	-	11.4A	45	750	22	72	1200	35	8.5
D 45.5	100	4"	5.5	7.5	-	11.4A	60	1000	16	105	1750	23	8.5
D 45.5F	100	4"	5.5	7.5	-	11.4A	60	1000	16	105	1750	23	8.5
D 47.5	100	4"	7.5	10	-	15A	60	1000	26	88	1467	41	11.5
D 67.5	150	6"	7.5	10	-	15A	80	1333	20.5	130	2167	32	19.5
D 411	100	4"	11	15	-	22A	60	1000	32	86.4	1440	48.5	11.5
D 611	150	6"	11	15	-	22A	90	1500	25	150	2500	34	19.5
D 415	100	4"	15	20	-	29.5A	60	1000	45	86.4	1440	57	11.5
D 615	150	6"	15	20	-	29.5A	102	1700	30	168	2800	40	19.5

F: Indicates a pump equipped with float switch

D-S • Submersible Dewatering Pump with Level Sensor

Compact and Powerful:

Compact design with high performance and high resistance to abrasive media – ideal for construction and tunnel works.

Durable Materials:

Motor and pump casing are designed for heavy-duty service. The mechanical seal is designed for high pressure; the semi-open impeller in combination with the suction plate ensures a long service life.

Safe and Reliable:

Hermetically sealed motor with integrated thermal protection for reliable, safe operation.



Advantages

- Phase sequence detection: automatically corrects the direction of rotation.
- Protection in case of phase failure or impeller blockage: prevents malfunctions and damage.
- Overload and voltage monitoring: automatic shut-off; restart after 5 minutes.
- Temperature protection: shut-off in case of overheating; automatic restart after cooling.
- Adjustable level sensor height: precise setting of the start/stop level.
- Automatic water level control (level sensor): adjustable level sensor height; stop within 60 seconds at low water level; automatic restart when the level rises.
- Fast diagnostics: operating status and fault messages can be checked quickly.

Technical Data

- Capacity: up to 150 m³/h
- Head: up to 50 m
- Power: 1.5 kW – 11 kW
- Power supply: 3~ 400 V $\pm$ 10 %, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~) / 20 m (3~)
- Cable type: H07RN-F
- Water temperature: up to 40°C
- Maximum immersion depth: 25 m

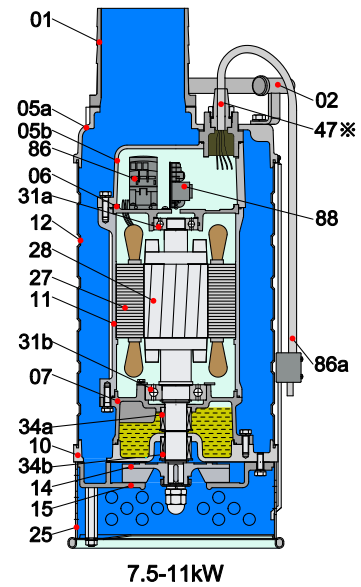
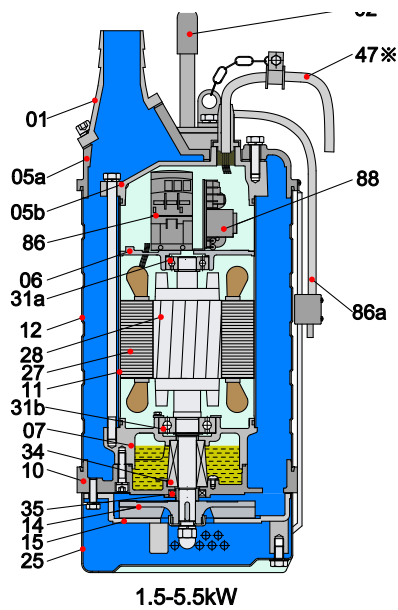
Applications

- Civil engineering / engineering
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants
- General pumping applications
- Pumped media: sludge-containing and liquid media (including bentonite)

Automatic Control

1. The pump runs as long as the electrode is under water.
2. If the water level drops below the electrode, a timer starts (60 seconds).
3. After 60 seconds, the pump stops.
4. If the level rises and touches the electrode again, the pump restarts automatically.

Part List

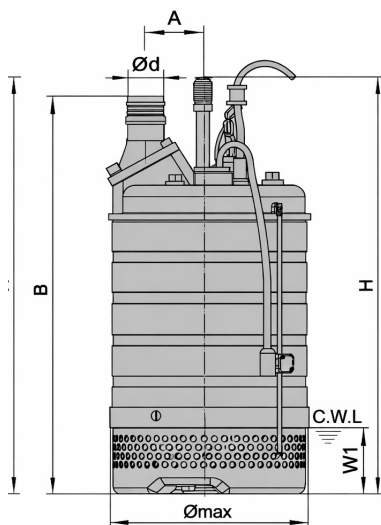


No.	Part	Material
1x	Discharge outlet	Cast iron
2x	Carrying handle	Rubber and steel
5a x	Upper cover	Cast iron
5b x	Upper cover	Cast iron
6	Upper bearing housing	Cast iron
7x	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Stainless steel
12	Outer casing	Stainless steel
14x	Impeller	High chrome alloy
15x	Diffuser	Ductile iron
25x	Strainer	Stainless steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (> 3.7 kW)
35	Oil seal	
47	Cable	H07RN-F
86	AC protector	
86a	Water level sensor	
88	Control block	

No.	Part	Material
1x	Discharge outlet	Cast iron
2x	Carrying handle	Steel
5a x	Upper cover	Cast iron
5b x	Upper cover	Cast iron
6	Upper bearing housing	Cast iron
7x	Bearing housing	Cast iron
10x	Seal housing	Cast iron
11	Motor housing	Cast iron
12	Outer casing	Stainless steel
14x	Impeller	High chrome alloy
15x	Diffuser	Ductile iron
25x	Strainer	Stainless steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34a	Mechanical seal	SiC-SiC
34b	Mechanical seal	SiC-TC
35	Oil seal	
47	Cable	H07RN-F
86	AC protector	
86a	Water level sensor	
88	Control block	

X optional: parts also available in AISI304 stainless steel (AISI304SS)

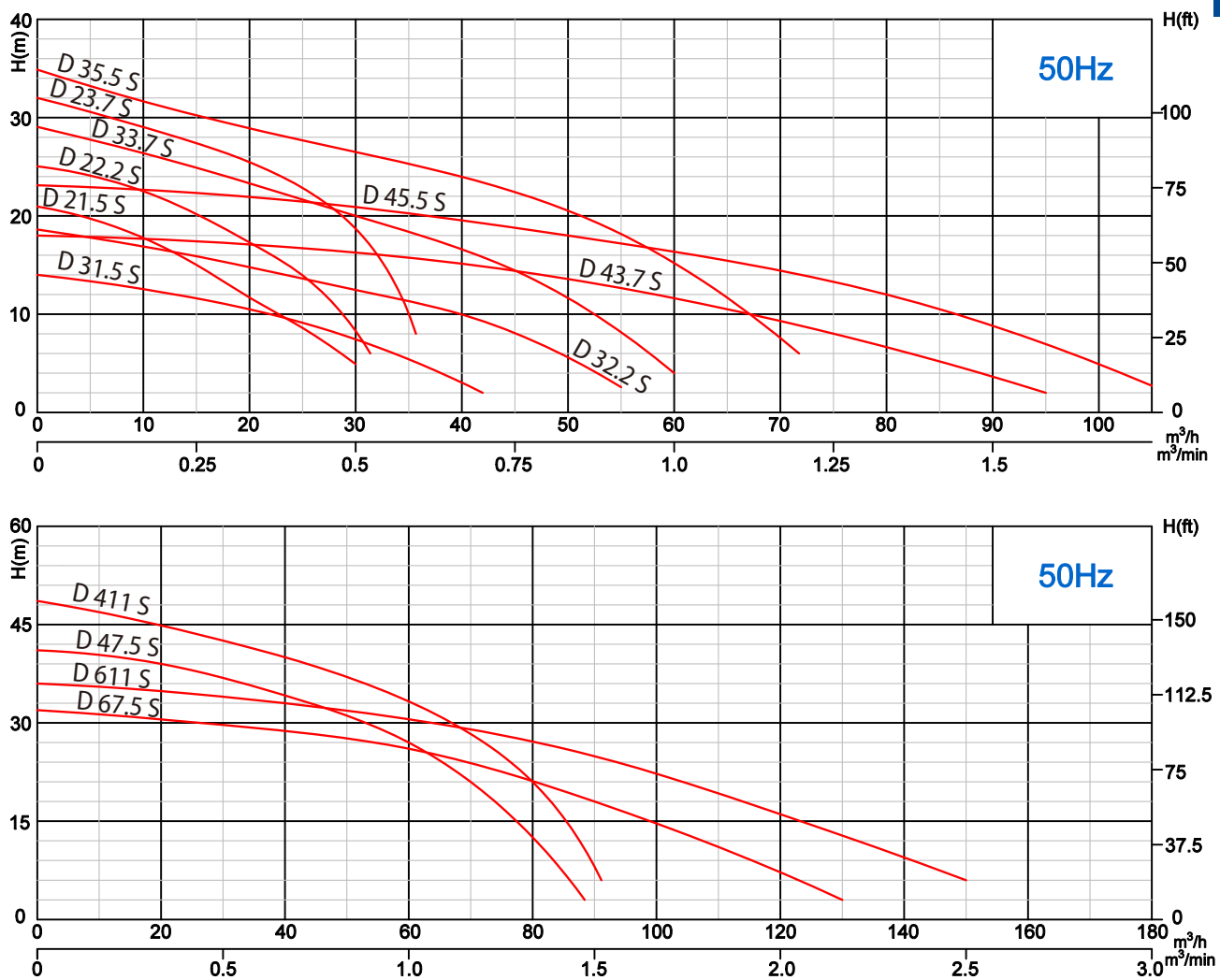
Dimensions



Model (50Hz)	A	H	B	Ømax	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	kg	kg	mm
D 21.5S	75	613	600	260	87	39	43	690x270x315
D 31.5S	83	613	608	260	87	39	43	690x270x315
D 22.2S	75	613	600	260	87	42	46	690x270x315
D 32.2S	83	613	608	260	87	42	46	690x270x315
D 23.7S	74	569	646	320	76	60	66	730x320x345
D 33.7S	80	569	655	320	76	60	66	730x320x345
D 43.7S	88	569	668	320	76	61	67	730x320x345
D 35.5S	80	609	695	320	76	68	74	770x320x365
D 45.5S	88	609	708	320	76	71	75	770x320x365
D 47.5S	54	768	882	375	142	118	130	965x395x455
D 67.5S	54	768	882	375	142	119	131	965x395x455
D 411S	54	813	927	375	142	136	149	975x395x455
D 611S	54	813	927	375	142	137	150	975x395x455

S: Indicates a pump with level sensor

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 400V	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
D 21.5S	50	2"	1.5	2	3.5	15	250	15	30	500	21	8.5
D 31.5S	80	3"	1.5	2	3.5	27	450	9	42	700	14	8.5
D 22.2S	50	2"	2.2	3	5.0	20	333	18	32	533	25	8.5
D 32.2S	80	3"	2.2	3	5.0	36	600	11	55	917	18.5	8.5
D 23.7S	50	2"	3.7	5	7.7	18	300	26	36	600	32	8.5
D 33.7S	80	3"	3.7	5	7.7	35	583	18.5	60	1000	29	8.5
D 43.7S	100	4"	3.7	5	7.7	60	1000	11.5	95	1583	18	8.5
D 35.5S	80	3"	5.5	7.5	11.4	45	750	22	72	1200	35	8.5
D 45.5S	100	4"	5.5	7.5	11.4	60	1000	16	105	1750	23	8.5
D 47.5S	100	4"	7.5	10	15	60	1000	26	88	1467	41	11.5
D 67.5S	150	6"	7.5	10	15	80	1333	20.5	130	2167	32	19.5
D 41.1S	100	4"	11	15	22	60	1000	32	86.4	1440	48.5	11.5
D 61.1S	150	6"	11	15	22	90	1500	25	150	2500	34	19.5

S: Indicates a pump with level sensor

DB • Submersible Dewatering Pump (High Efficiency)

Capacity: up to 108 m³/h

Capacity: up to 108 m³/h

Power: 1.5–5.5 kW

Applications

- Water supply and dewatering in aquaculture
- Irrigation systems in agriculture
- Groundwater extraction and water intake
- Water intake from rivers, lakes and reservoirs



Water Cooling for Long Operating Periods:

The water-cooled motor is designed for continuous duty or intermittent duty and operates efficiently.

Overtemperature Protection:

A thermal motor protector automatically switches off at excessively high temperature.

High Immersion Depth:

A pressure-resistant mechanical seal allows immersion depths of up to 25 m.

Robust Construction:

Upper cover made of cast iron and a reinforced pump jacket made of AISI 304 stainless steel provide high stability in operation.

Chromium Steel Impeller:

The chromium steel impeller is durable and supports efficient pumping performance.

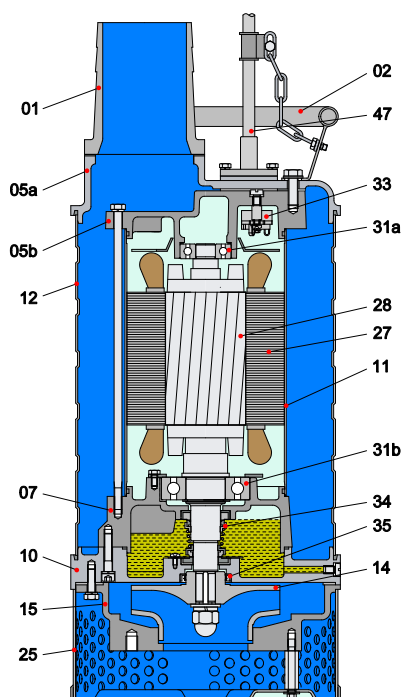
Easy Maintenance:

The strainer can be removed easily for cleaning and maintenance.

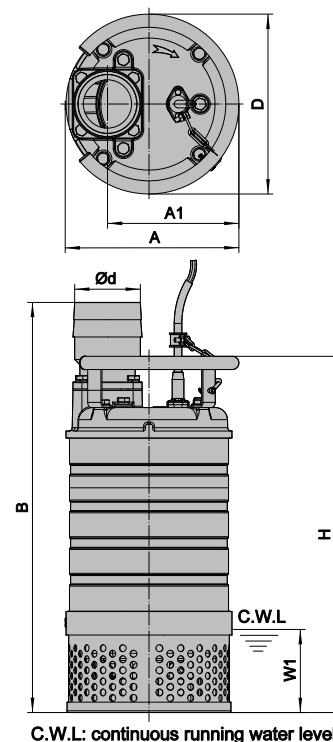
Technical Data

- Capacity: up to 108 m³/h
- Head: up to 31 m
- Power: 1.5–5.5 kW
- Power supply: 1~ 230 V ± 10 %, 50Hz
- Power supply: 3~ 400 V ± 10 %, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~ 230 V) / 20 m (3~ 400 V)
- Cable type: H07RN-F
- Water temperature: up to 40°C
- Maximum immersion depth: 25 m
- Discharge outlet with male thread

Part List



Dimensions

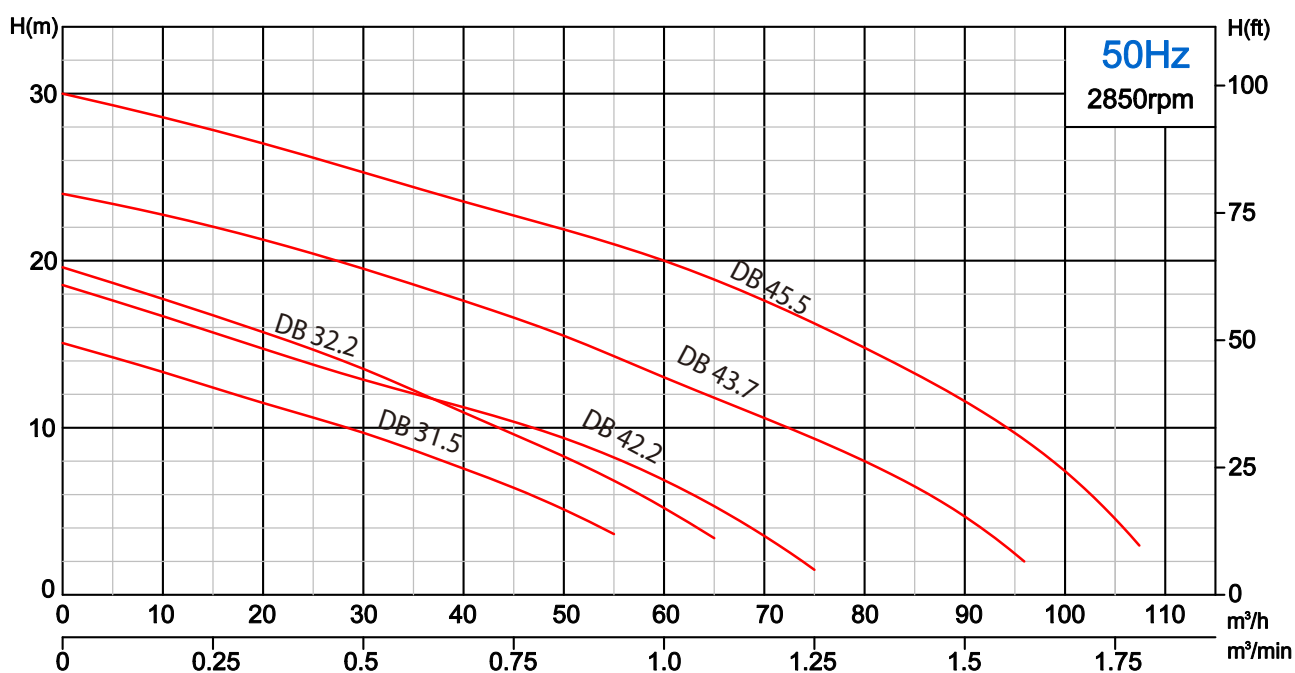


No.	Part	Material
01	Discharge outlet	Cast iron
02	Carrying handle	Steel
05a	Upper cover	Cast iron
05b	Upper cover	Cast iron
07	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	Stainless steel
12	Outer casing	Stainless steel
14	Impeller	Chromium steel
15	Diffuser	Cast iron
25	Strainer	Stainless steel AISI 201

No.	Part	Material
25	Strainer	Stainless steel AISI 201
27	Stator	
28	Rotor	Shaft 420 (stainless steel)
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (< 2.2 kW) SiC-SiC / SiC-SiC (3.7-5.5 kW)
35	Oil seal	
47	Cable	H07RN-F

Model (50Hz)	D	A	A1	B	D	H	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	mm	mm	kg	kg	mm
DB31.5 (1~)	80	251	191	633	262	565	110	40,5	44,5	675×290×315
DB32.2 (1~)	80	251	191	658	262	590	110	43	47	700×290×315
DB42.2 (1~)	100	251	191	668	262	590	110	43	47	720×290×315
DB31.5 (3~)	80	251	191	583	262	515	110	38,5	42,5	625×290×315
DB32.2 (3~)	80	251	191	583	262	515	110	41	45	625×290×315
DB42.2 (3~)	100	251	191	593	262	515	110	41	45	645×290×315
DB43.7 (3~)	100	288	213	683	302	579	135	60	68	730×320×345
DB45.5 (3~)	100	288	213	703	302	619	135	67	73	770×320×355

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current 230 V / 400 V		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m³/h	l/min	m	m³/h	l/min	m	
DB31.5	80	3"	1.5	2	10,0 A	-	30	500	10	57	950	15	10
DB32.2	80	3"	2.2	3	14,0 A	-	30	500	13	65	1083	20	10
DB42.2	100	4"	2.2	3	14,0 A	-	48	800	10.5	75	1250	19	10
DB31.5	80	3"	1.5	2	-	3,5 A	30	500	10	57	950	15	10
DB32.2	80	3"	2.2	3	-	5,0 A	30	500	13	65	1083	20	10
DB42.2	100	4"	2.2	3	-	5,0 A	48	800	10.5	75	1250	19	10
DB43.7	100	4"	3.7	5	-	7,7 A	60	1000	13.5	96	1600	24	10
DB45.5	100	4"	5.5	7.5	-	11,4 A	60	1000	20	108	1800	30	10

DC • Submersible Dewatering Pump Stainless Steel Version

Capacity: up to 150 m³/h

Capacity: up to 150 m³/h

Head: up to 50 m

Applications

- Civil engineering
- Mines, quarries, coal mining and slurries
- Wastewater treatment plants / industrial wastewater treatment
- General pumping applications



Compact and Powerful:

Compact design with high pumping performance and very good resistance to abrasive media – ideal for civil engineering and tunnel works.

Durable Materials:

Motor and pump casing made of stainless steel for corrosion resistance and long service life. Semi-open impeller made of high-chrome alloy in combination with a wear plate for long service life.

Efficient Motor Cooling:

The integrated discharge channel (top discharge outlet) ensures reliable motor cooling – even in partial dry-running conditions.

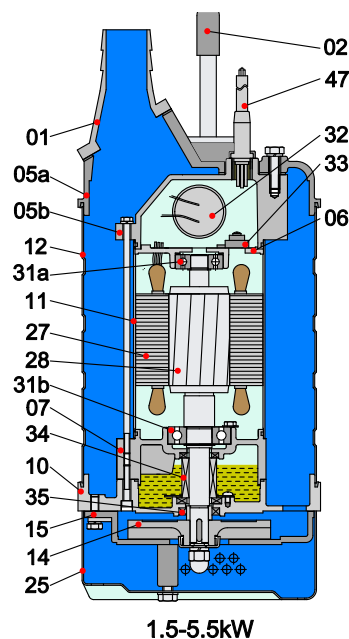
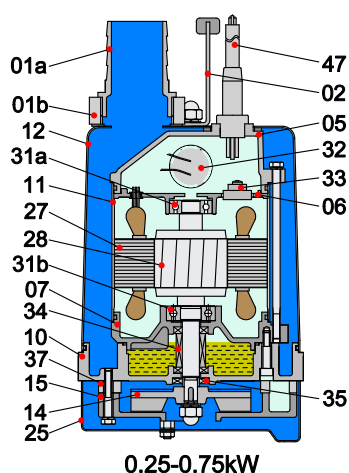
Safe and Reliable:

Hermetically sealed motor with integrated thermal protection (up to 11 kW) for safe operation.

Technical Data

- Capacity: up to 150 m³/h
- Head: up to 50 m
- Power: 0.25–11 kW
- Power supply: 1~ 230 V ± 10 %, 50Hz (0.25–0.75 kW)
- Power supply: 3~ 400 V ± 10 %, 50Hz (1.5–11 kW)
- Insulation class: F
- Protection class: IP68
- Cable length: 10 m (1~ 230 V) / 20 m (3~ 400 V)
- Cable type: H07RN-F
- Water temperature: up to 40°C
- Maximum immersion depth: 10 m (0.25–0.75 kW); 25 m (1.1–11 kW)

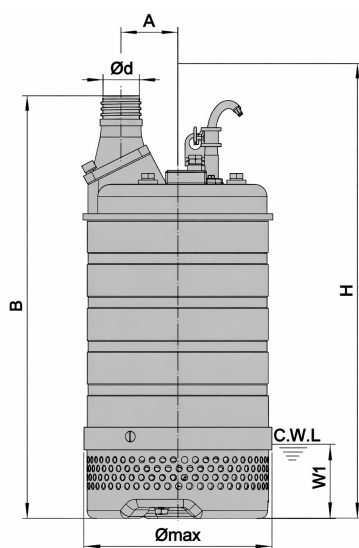
Part List



No.	Part	Material
01a	Discharge outlet	ABS
01b	Discharge outlet	PA66
02	Carrying handle	Rubber and AISI304SS
05	Upper cover	AISI304SS
06	Upper bearing housing	Die-cast aluminum
07	Bearing housing	AISI304SS
10	Seal housing	AISI304SS
11	Motor housing	AISI304SS
12	Outer casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	Ceramic-SiC / Carbon-Ceramic
35	Oil seal	
37	Seal	NBR
47	Cable	H07RN-F

No.	Part	Material
1	Discharge outlet	AISI304SS
2	Carrying handle	Rubber and AISI304SS
05a	Upper cover	AISI304SS
05b	Upper cover	AISI304SS
6	Upper bearing housing	AISI304SS
7	Bearing housing	AISI304SS
10	Seal housing	AISI304SS
11	Motor housing	AISI304SS
12	Outer casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	single-phase version only
33	Motor protector	
34	Mechanical seal	SiC-SiC / Carbon-SiC (2.2 kW) SiC-SiC / SiC-SiC (3.7-5.5 kW)
35	Oil seal	
47	Cable	H07RN-F

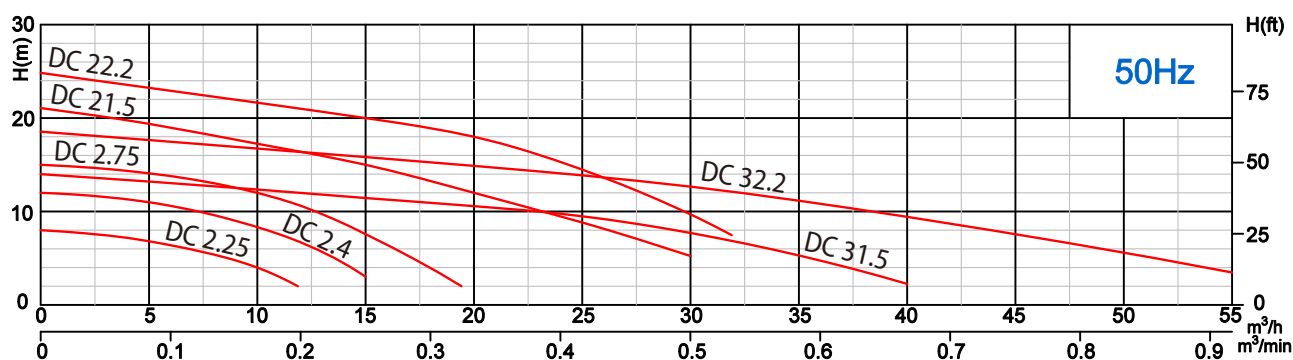
Dimensions



Model (50Hz)	A	H	B	Ømax	W1	N.W	G.W	Packaging dimensions
	mm	mm	mm	mm	mm	kg	kg	mm
DC 2.25F	42	347	342	184	50	14	15	385x225x250
DC 2.4F	42	347	342	184	50	15	16	385x225x250
DC 2.75F	42	367	362	184	50	17	18	405x225x250
DC 21.5	68	558	538	240	87	37	41	620x270x315
DC 31.5	78	558	548	240	87	37	41	690x270x315
DC 22.2	68	558	538	240	87	40	44	620x270x315
DC 32.2	78	558	548	240	87	40	44	690x270x315
DC 21.5F	68	608	588	240	87	39	43	620x270x315
DC 31.5F	78	608	598	240	87	39	43	690x270x315
DC 22.2F	68	608	588	240	87	42	46	690x270x315
DC 32.2F	78	608	598	240	87	42	46	690x270x315
DC 23.7	71	514	587	300	76	58	64	670x320x345
DC 33.7	72	514	584	300	76	60	66	730x320x345
DC 43.7	86	514	613	300	76	59	65	670x320x345
DC 35.5	72	609	679	300	76	66	72	710x320x355
DC 45.5	86	609	708	300	76	67	73	670x320x345
DC 23.7F	71	569	642	300	76	61	67	730x320x345
DC 33.7F	72	569	639	300	76	66	72	710x320x355
DC 43.7F	86	569	668	300	76	68	74	770x320x355
DC 35.5F	72	609	679	300	76	67	73	710x320x355
DC 45.5F	86	609	708	300	76	69	75	770x320x355
DC 47.5	54	696	810	355	142	108	120	894x394x455
DC 67.5	54	696	810	355	142	110	122	894x394x455
DC 411	54	741	855	355	142	123	135	954x394x455
DC 611	54	741	855	355	142	125	137	954x394x455

F: Indicates a pump equipped with float switch

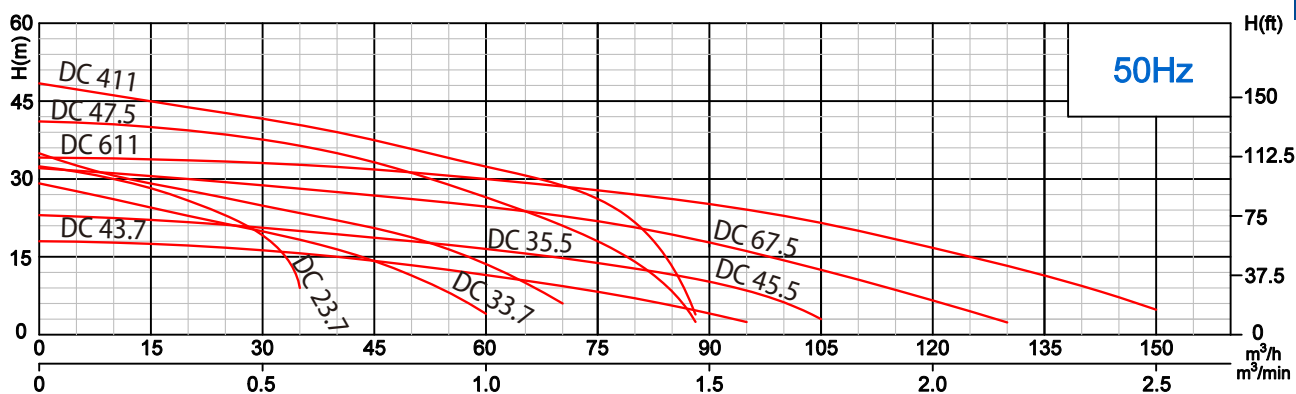
Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m3/h	l/ min	m	m3/h	l/ min	m	mm
DC 2.25F	50	2"	0.25	0.35	2.0A	-	6	100	7	12	200	8	6
DC 2.4F	50	2"	0.4	0.55	3.0A	-	8	133	10	14.5	242	12	6
DC 2.75F	50	2"	0.75	1	5.0A	-	10	167	12	19.5	325	15	6
DC 21.5	50	2"	1.5	2	-	3.5A	15	250	15	30	500	21	8.5
DC 21.5F	50	2"	1.5	2	-	3.5A	15	250	15	30	500	21	8.5
DC 31.5	80	3"	1.5	2	-	3.5A	27	450	9	42	700	14	8.5
DC 31.5F	80	3"	1.5	2	-	3.5A	27	450	9	42	700	14	8.5
DC 22.2	50	2"	2.2	3	-	5.0A	20	333	18	32	533	25	8.5
DC 22.2F	50	2"	2.2	3	-	5.0A	20	333	18	32	533	25	8.5
DC 32.2	80	3"	2.2	3	-	5.0A	36	600	11	55	917	18.5	8.5
DC 32.2F	80	3"	2.2	3	-	5.0A	36	600	11	55	917	18.5	8.5

F: Indicates a pump equipped with float switch

Performance Curve



Model (50Hz)	Discharge		Motor output		Rated Current		Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	inch	kW	HP	1~	3~	m³/h	l/min	m	m³/h	l/min	m	mm
DC 23.7	50	2"	3.7	5	-	7.7A	18	300	26	36	600	32	8.5
DC 23.7F	50	2"	3.7	5	-	7.7A	18	300	26	36	600	32	8.5
DC 33.7	80	3"	3.7	5	-	7.7A	35	583	18.5	60	1000	29	8.5
DC 33.7F	80	3"	3.7	5	-	7.7A	35	583	18.5	60	1000	29	8.5
DC 43.7	100	4"	3.7	5	-	7.7A	60	1000	11.5	95	1583	18	8.5
DC 43.7F	100	4"	3.7	5	-	7.7A	60	1000	11.5	95	1583	18	8.5
DC 35.5	80	3"	5.5	7.5	-	11.4A	45	750	22	72	1200	35	8.5
DC 35.5F	80	3"	5.5	7.5	-	11.4A	45	750	22	72	1200	35	8.5
DC 45.5	100	4"	5.5	7.5	-	11.4A	60	1000	16	105	1750	23	8.5
DC 45.5F	100	4"	5.5	7.5	-	11.4A	60	1000	16	105	1750	23	8.5
DC 47.5	100	4"	7.5	10	-	15A	60	1000	26	88	1467	41	11.5
DC 67.5	150	6"	7.5	10	-	15A	80	1333	20.5	130	2167	32	19.5
DC 411	100	4"	11	15	-	22A	60	1000	32	86.4	1440	48.5	11.5
DC 611	150	6"	11	15	-	22A	90	1500	25	150	2500	34	19.5

V • High-Flow Seawater Pump

- Capacity: up to 660 m³/h
- Head: up to 7 m
- Power: 0.75–15 kW

Energy-Efficient High Flow Rate (Low Head):

Axial or mixed-flow hydraulics for high flow rates at low head.

Effective Motor Cooling:

Integrated cooling jacket (top discharge outlet) guides the pumped water past the motor and ensures reliable cooling – even at low water level.

Corrosion-Resistant Design:

Motor and shaft parts made of AISI 316L stainless steel. Impeller made of AISI 444 for high wear and corrosion resistance – especially in seawater and brackish water as well as sand-/silt-containing media. Anodized aluminum parts reduce corrosion.

Impeller Versions:

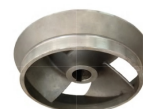
Axial-flow impeller (0.75–7.5 kW) or mixed-flow impeller (> 11 kW).

Robust and Reliable:

Hermetically sealed motor with integrated thermal protection. IP68 for continuous underwater operation.



Axial-flow impeller
(0.75–7.5kW)



Mixed-flow impeller
(≥ 11kW)

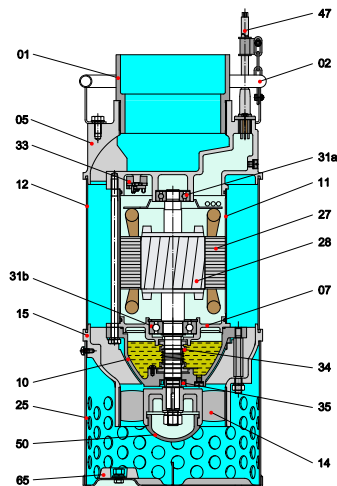
Applications

- Aquaculture: water supply and dewatering in sea- and freshwater
- Agriculture: irrigation as well as inlet and outlet
- Ponds / lakes: inlet and outlet, circulation
- Landscaping

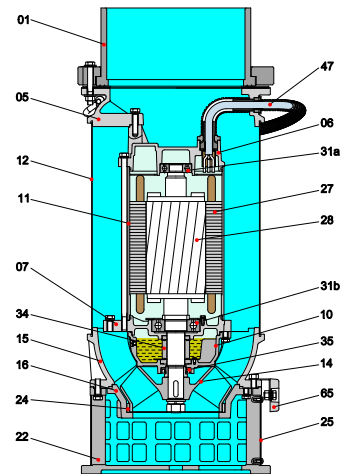
Technical Data

- Capacity: up to 660 m³/h
- Head: up to 7 m
- Power: 0.75–15 kW
- Power supply: 1~ 230 V ±10 %, 50Hz; 3~ 400 V ±10 %, 50Hz
- Insulation class: F (0.75–2.2 kW), H (5.5–15 kW)
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Water temperature: up to 40°C
- Max. immersion depth: 10 m

Part List



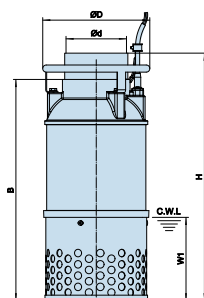
V 4.75 ~ V-62.2



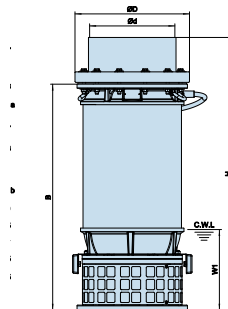
V 85.5 ~ 1211

No.	Part	Material
01	Discharge outlet	PVC
02	Carrying handle	AISI304SS
05	Upper cover	Cast iron
06	Upper support	AISI304SS
07	Bearing housing	Cast iron
10	Seal housing	Cast iron
11	Motor housing	AISI316LSS
12	Outer casing	AISI304SS
14	Impeller	AISI444SS
15	Diffuser	Cast iron
16	Suction plate	Cast iron
22	Pump foot	Cast iron
24	Wear ring	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft: AISI316LSS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	
34	Mechanical seal	SiC-Ceramic / Carbon-Ceramic (0.75 kW) SiC-SiC / Carbon-Ceramic (1.5–2.2 kW)
35	Oil seal	
47	Cable	H07RN-F
50	Seal	NBR
65	Cathodic protection plate	Die-cast aluminum

Dimensions



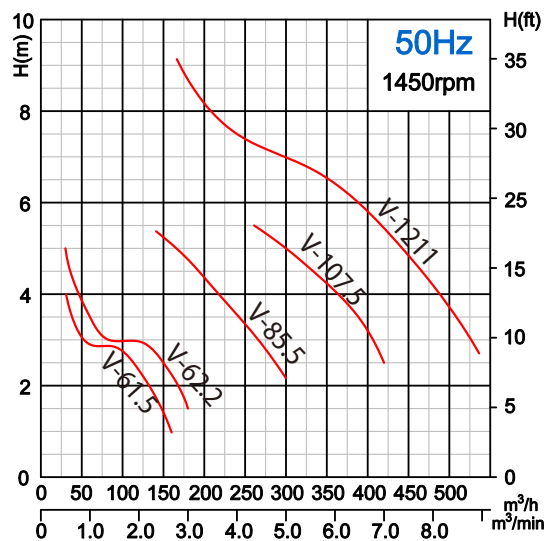
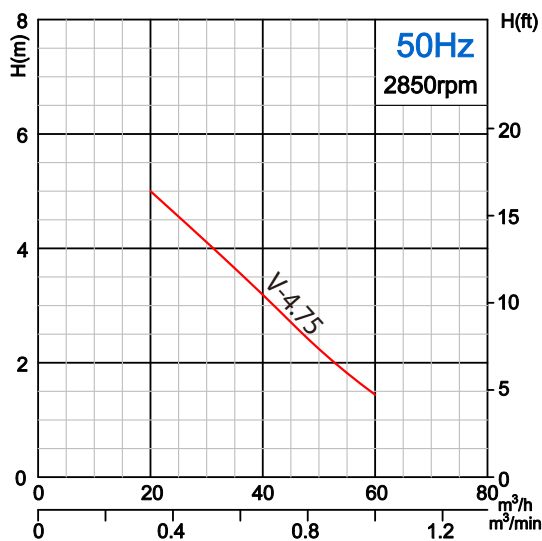
V 4.75 ~ V-62.2



V 85.5~ 1211

Dimensions mm								
Model	d	B	D	H	W1	N.W	G.W	Packaging Dimensions
V-4.75	100	454	225	525	200	25	27	620x270x315
V-61.5	150	602	285	672	300	47	51	750x320x345
V-62.2	150	602	285	672	300	50	54	750x320x345
V-85.5	200	757	340	877	400	115	128	945x395x465
V-107.5	250	825	390	975	500	145	160	1065x435x505
V-1211	315	848	445	1030	600	186	205	1105x495x565

Performance Curve



Model (50Hz)	Discharge	Motor output		Rated Current 230 V / 400 V		Optimal capacity and head			Maximum capacity and head		Solids passage
	mm	kW	HP	1~	3~	m³/h	l/min	m	m³/h	l/min	
V-4.75	100	0.75	1	5.0	2.0	42	700	3	63	1050	10
V-61.5	150	1.5	2	-	3.7	120	2000	2.3	162	2700	20
V-62.2	150	2.2	3	-	5.1	120	2000	3	180	3000	20
V-85.5	200	5.5	7.5	-	11.7	240	4000	4	330	5500	22
V-107.5	250	7.5	10	-	15.7	360	6000	6	480	8000	22
V-1211	300	11.0	15	-	22.0	450	7500	5	540	9000	33

DH • Dewatering Pump

Capacity: up to 408 m³/h

Head: up to 140 m

Power: 22–110 kW



Robust Construction and Long Service Life:

Pump casing and motor housing made of hard cast iron / steel casting for a long service life under harsh conditions.

Pressure-Resistant Seal:

Mechanical seal for high pressure; pressure relief holes protect the seal against shaft pressure.

Efficient Motor Cooling and Compact Design:

Top discharge outlet saves space. The motor is cooled by the pumped water – even under partial immersion.

Safe and Reliable:

Hermetically sealed motor with integrated thermal protection; 2-pole three-phase induction motor.

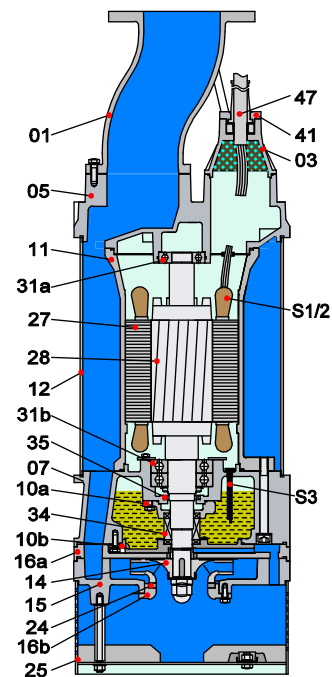
Technical Data

- Power supply: 3~ 400 V $\pm$ 10 %, 50Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 20 m
- Cable type: H07RN-F
- Water temperature: up to 40°C
- Maximum immersion depth: 30 m
- Discharge outlet: 100–200 mm (4"–8"), depending on model

Applications

- Pre-dewatering of deep wells / high-pressure dewatering
- Building / civil engineering, general engineering
- Mines, quarries, coal ore and slurries
- Wastewater treatment plants
- General pumping applications

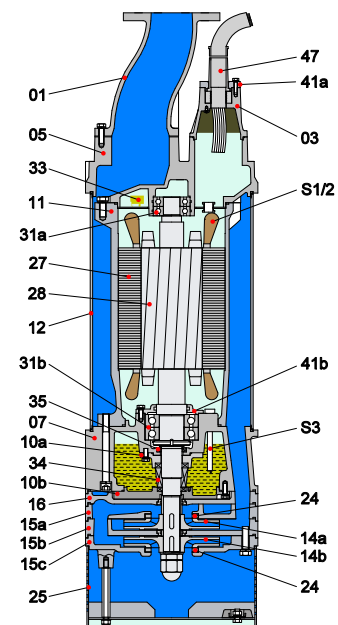
Part List



DH

No.	Part	Material
01	Discharge outlet	Ductile iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
07	Bearing housing	Cast iron
10a/10b	Seal holder	Cast iron
11	Motor housing	Cast iron
12	Outer casing	Steel
14	Impeller	High chrome alloy
15	Diffuser	Ductile iron
16a	Suction plate	Ductile iron
16b	Suction plate	Cast iron
24	Wear ring	High chrome alloy
25	Strainer	AISI201SS
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	TC-SiC / SiC-SiC
35	Oil seal	
41	Shim	Cast iron
47	Cable	H07RN-F
S1/2	Overtemperature protection	
S3	Oil-water leakage sensor	55–150 kW (22–45 kW optional)

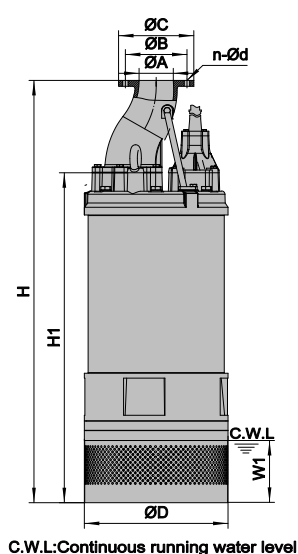
Part List



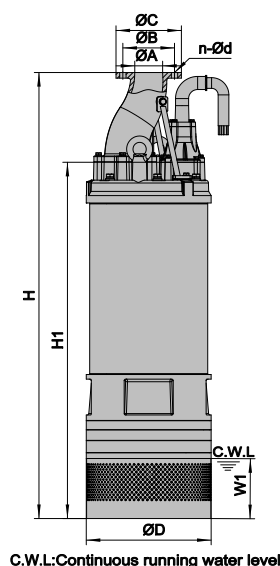
DH-W

No.	Part	Material
01	Discharge outlet connection	Ductile iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
07	Bearing housing	Cast iron
10a/10b	Seal holder	Cast iron
11	Motor housing	Cast iron
12	Outer casing	Steel
14a/14b	Impeller	High chrome alloy
15a/15b/15c	Diffuser and casing	Ductile iron
16a/16b	Suction plate	Ductile iron
24	Wear ring	High chrome alloy
25	Strainer	Stainless steel
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	3–11 kW
34	Mechanical seal	TC-SiC / SiC-SiC
35	Oil seal	
41a	Cable fixing plate	Cast iron
41b	Bearing fixing plate	Cast iron
47	Cable	H07RN-F
S1/2	Overtemperature protection	22–150 kW
S3	Oil-water leakage sensor	37–150 kW (22 kW optional)

Dimensions



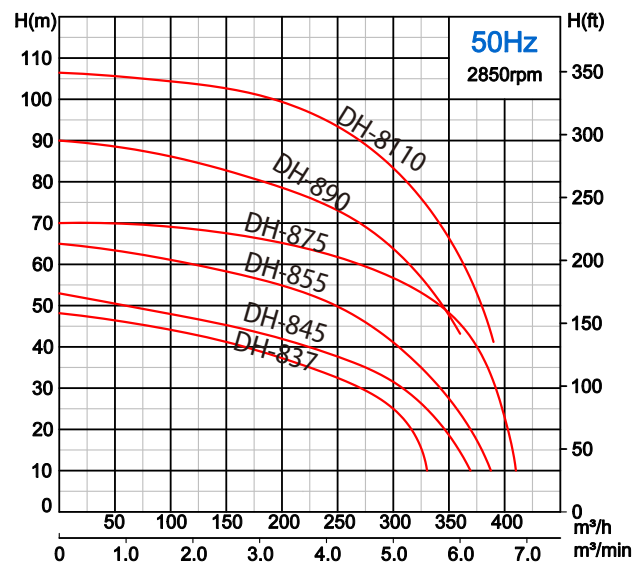
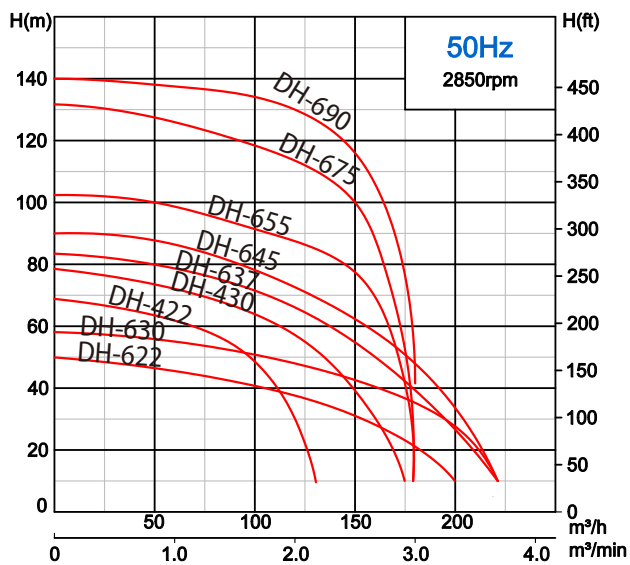
DH



DH-W

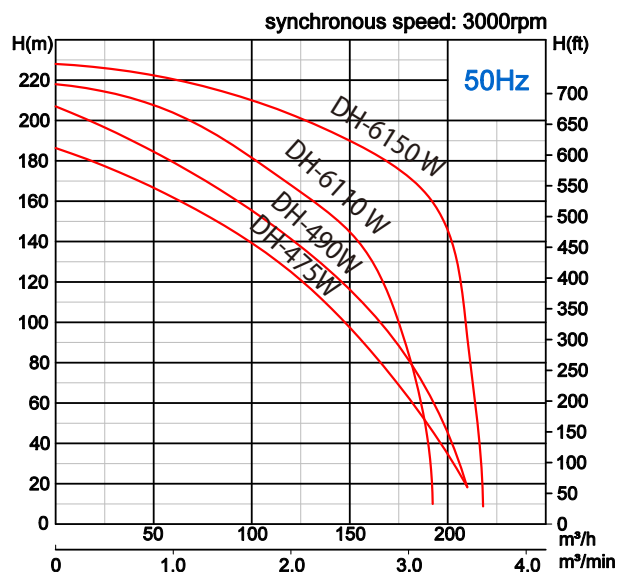
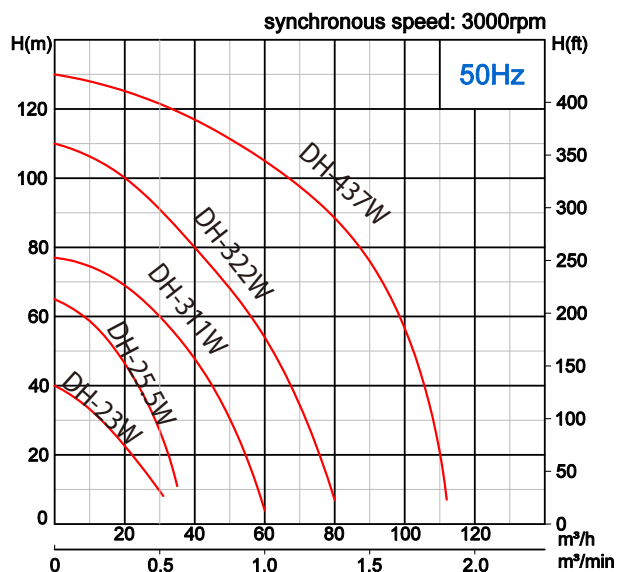
Dimensions mm											
Model	A	B	C	n-Ød	D	H	H1	W1	N.W	G.W	Packaging dimensions
DH 422	100	180	220	8-Ø18	420	1374	1072	240	370	410	1495x490x705
DH 430	100	180	220	8-Ø18	420	1374	1072	240	375	415	1495x490x705
DH 622	150	240	285	8-Ø22	420	1434	1082	250	385	425	1565x490x705
DH 630	150	240	285	8-Ø22	420	1434	1082	250	390	430	1565x490x705
DH 637	150	240	285	8-Ø22	530	1424	1072	180	570	615	1605x600x860
DH 645	150	240	285	8-Ø22	530	1424	1072	180	575	620	1605x600x860
DH 837	200	295	340	12-Ø22	530	1474	1072	180	575	625	1605x600x860
DH 845	200	295	340	12-Ø22	530	1474	1072	180	580	630	1605x600x860
DH 655	150	240	285	8-Ø22	550	1630	1280	200	840	890	1815x620x920
DH 675	150	240	285	8-Ø22	550	1630	1280	200	888	938	1815x620x920
DH 855	200	295	340	12-Ø22	550	1680	1280	200	850	900	1815x620x920
DH 875	200	295	340	12-Ø22	550	1680	1280	200	898	948	1815x620x920
DH 690	150	250	300	8-Ø26	592	1687	1282	200	1110	1166	1825x665x965
DH 890	200	295	340	12-Ø22	592	1687	1282	200	1120	1176	1825x665x965
DH 8110	200	295	340	12-Ø22	592	1687	1282	200	1150	1206	1825x665x965
DH23W	50	125	165	4-Ø18	185	685	570	146	52	57	740x220x295
DH25.5W	50	125	165	4-Ø18	243	788	616	170	100	107	840x280x385
DH311W	80	160	200	8-Ø18	275	1036	824	210	160	172	1085x310x415
DH322W	80	160	200	8-Ø18	330	1174	914	260	278	308	1225x375x545
DH437W	100	180	220	8-Ø18	420	1500	1198	227	500	540	1625x465x705
DH475W	100	190	235	8-Ø22	550	1762	1410	400	1000	1052	1900x620x690
DH490W	100	190	235	8-Ø22	550	1822	1470	400	1055	1110	1960x620x700
DH6110W	150	250	300	8-Ø26	592	1793	1388	370	1245	1301	1935x665x965
DH6150W	150	250	300	8-Ø26	592	1925	1520	415	1418	1488	2065x665x975

Performance Curve



Model (50Hz)	Discharge	Motor output		Rated Current 400V	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	kW	HP		m3/h	l/min	m	m3/h	l/min	m	
DH 422	100	22	30	41.5A	66	1100	60	130	2167	68	6
DH 430	100	30	40	54.0A	72	1200	70	170	2833	78	6
DH 622	150	22	30	41.5A	120	2000	37	200	3333	50	15
DH 630	150	30	40	54.0A	140	2333	45	220	3667	58	15
DH 637	150	37	50	66.0A	120	2000	65	220	3667	83	6
DH 645	150	45	60	80.0A	120	2000	75	220	3667	90	6
DH 837	200	37	50	66.0A	216	3600	35	330	5500	48	20
DH 845	200	45	60	80.0A	270	4500	35	372	6200	53	20
DH 655	150	55	75	100.0A	90	1500	90	180	3000	102	8
DH 675	150	75	100	134.0A	90	1500	120	180	3000	132	8
DH 855	200	55	75	100.0A	240	4000	50	390	6500	65	20
DH 875	200	75	100	134.0A	270	4500	60	408	6800	70	20
DH 690	150	90	120	162.0A	120	2000	128	180	3000	140	10
DH 890	200	90	120	162.0A	270	4500	70	360	6000	90	20
DH 8110	200	110	150	198.0A	270	4500	90	390	6500	107	20

Performance Curve



Model (50Hz)	Discharge	Motor output		Starting Method	Rated Current 400V	Optimal capacity and head			Maximum capacitand head			Solids passage
	mm	kW	HP		3~	m3/h	l/min	m	m3/h	l/min	m	mm
DH23W	50	3.0	4.0	D.O.L.	6.2A	18	300	26	30	500	39	6
DH25.5W	50	5.5	7.5	D.O.L.	11.4 A	18	300	48	35	583	65	6
DH311W	80	11	15	D.O.L.	22 A	30	500	60	60	1000	78	8.5
DH322W	80	22	30	Star-Delta	41.5 A	40	667	80	81	1350	110	8.5
DH437W	100	37	50	Star-Delta	66 A	60	1000	105	112	1867	130	6
DH475W	100	75	100	Star-Delta	134 A	120	2000	125	210	3500	185	6
DH490W	100	90	120	Star-Delta	162 A	120	2000	140	210	3500	205	15
DH6110W	150	110	150	Star-Delta	198 A	120	2000	168	192	3200	218	8
DH6150W	150	150	200	Star-Delta	260 A	150	2500	190	218	3633	230	12

HL • Sand Pump

Robust and Reliable:

High-performance submersible sand pump for harsh operating conditions with silt, sand and other abrasive solids.

Wear-Resistant and Durable:

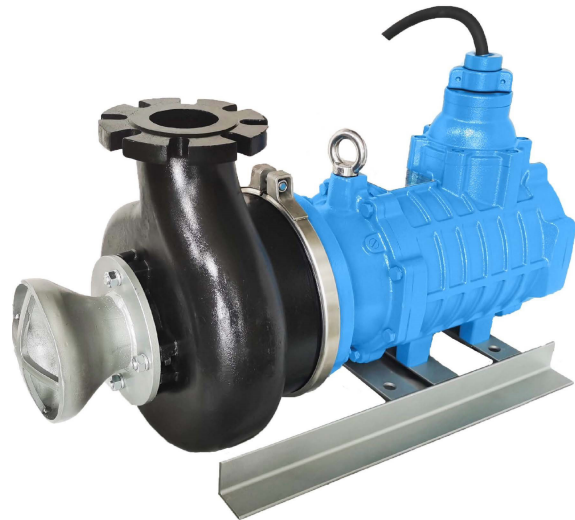
Wear parts and hydraulics are designed for abrasive media – for a long service life.

H-Class Motor & Seal:

Submersible motor with insulation class H and heavy-duty mechanical seal for safe continuous operation.

Efficient Solids Handling:

Vortex impeller hydraulics allow larger solids to pass and reduce clogging.



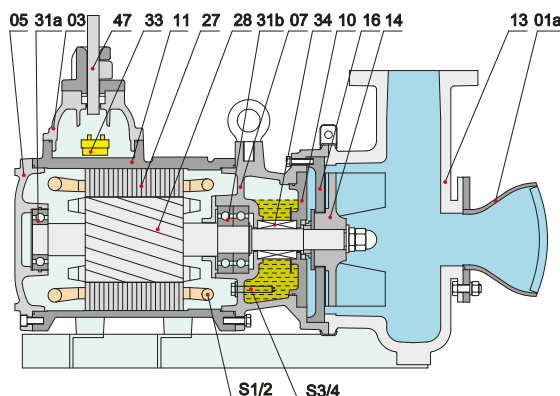
Applications

- Mining: pumping of solids / sludge (e.g. coal, gold, platinum, diamond)
- Wastewater / sludge: transport of raw wastewater with solids
- Power plants: discharge of water with fly ash / coal
- Construction / geotechnics: dewatering, pumping underwater sand, cleaning settling basins
- Chemical industry: processes with abrasive raw materials

Technical Data

- Capacity: up to 235 m³/h
- Head: up to 28 m
- Permissible medium density: up to 1.3 g/cm³
- Power: 4–22 kW
- Power supply: 3~ 400 V ± 10 %, 50Hz
- Insulation class: H
- Protection class: IP68
- Cable length: 10 m
- Cable type: H07RN-F
- Water temperature: up to 60°C
- pH range: 6–10
- Maximum immersion depth: 15 m

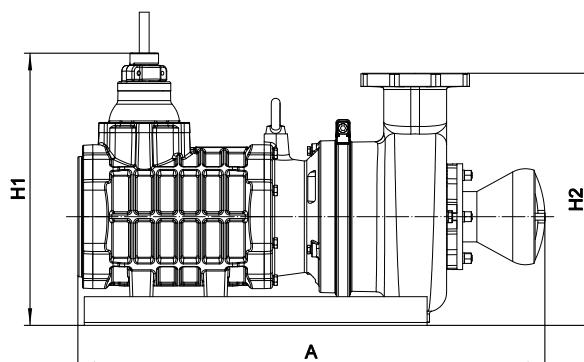
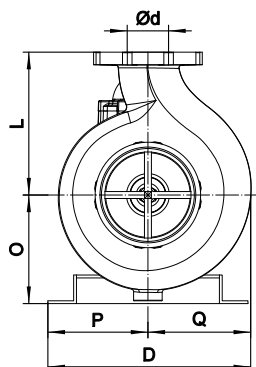
Part List



No.	Part	Material
1A	Water inlet	Steel
3	Terminal box	Cast iron
5	Upper cover	Cast iron
7	Bearing housing	Cast iron
10	Seal holder	Cast iron
11	Motor housing	Cast iron
13	Pump casing	High chrome alloy
14	Impeller	High chrome alloy
16	Suction plate	Cast iron and PU
27	Stator	
28	Rotor	Shaft: AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
33	Motor protector	< 15 kW
34	Mechanical seal	SiC-SiC / SiC-SiC
47	Cable	H07RN-F
S1/2	Overtemperature protection	22 kW (11–15 kW optional)
S3/4	Oil-water leakage sensor	optional; only f or pumps > 11 kW

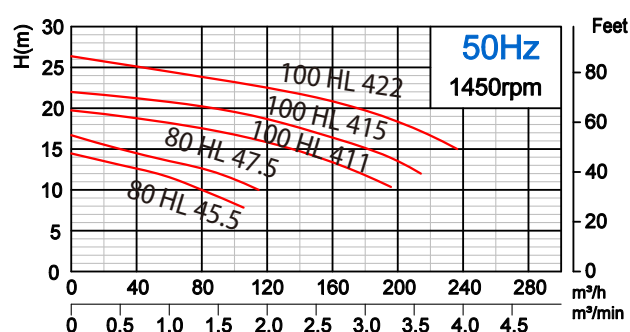
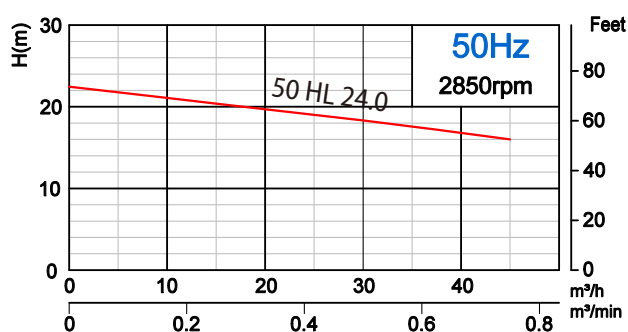
Applications	Max. recommended concentration (weight fraction)	Min. recommended flow velocity (m/s)
Gravel and ore	15%	4
Sand and clay	30%	3,5
Ash	40%	1,5

Dimensions



Dimensions mm												
Model	d	O	P	Q	L	D	A	H1	H2	N.W	G.W	Packaging dimensions
50 HL 24.0	50	110	126	150	140	276	542	240	250	67	73	646x315x352
80 HL 45.5	75	190	175	180	250	355	817	480	440	161	174	855x395x667
80 HL 47.5	75	190	175	180	250	355	817	480	440	170	183	855x395x667
100 HL 411	100	220	188	215	290	403	940	476	510	257	284	1075x520x735
100 HL 415	100	220	188	215	290	403	940	476	510	276	303	1075x520x735
100 HL 422	100	235	200	232	300	432	990	506	535	341	368	1075x520x735

Performance Curve



Model (50Hz)	Discharge	Motor output		Rated Current 400V	Optimal capacity and head		Maximum capacitand head		Solids passage
	mm	kW	HP		m3/h	m	m3/h	m	
50 HL 24.0	50	4	5.5	8.9A	30	18	45	22	42
80 HL 45.5	80	5.5	7.5	11.7A	80	10	105	15	70
80 HL 47.5	80	7.5	10	15.7A	80	13	115	17	70
100 HL 411	100	11.0	15	22.0A	110	16	195	20	90
100 HL 415	100	15.0	20	30.1A	130	18	215	22	90
100 HL 422	100	22.0	30	45.0A	150	21	235	26	95



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