



SH

SUBMERSIBLE DRAINAGE PUMP

The body of motor and pump is made of hard cast iron for long-lasting durability. Greatly increased maximum submersion depth due to mechanical seal resistant to high pressure. The pump can be only partially immersed, with hydraulic part under motor and motor cooled by pumped water for safe operation. The top discharge design maximize the utilization of space. Hermetically sealed motor equipped with built-in thermal protection. Seal pressure relief ports is incorporated to prevent the pumping pressure from applying to the shaft seal. Discharge 100mm(4") to 200mm(8"), motor 22kW(30HP) to 110 kW (150HP). Motor is dry type submersible induction motor (2 poles).



Specification

- Capacity: up to 408m³/h
- Head: up to 140 meters
- power: 22kw (30HP) to 110kw (150HP)
- power supply: three phase 400V $\pm$ 10%,50HZ
380V $\pm$ 10%, 60HZ
- Insulation class: F
- protection class: IP68
- cable length: 20m
- water temperature: up to 40°C
- Max.water depth:30m

Application

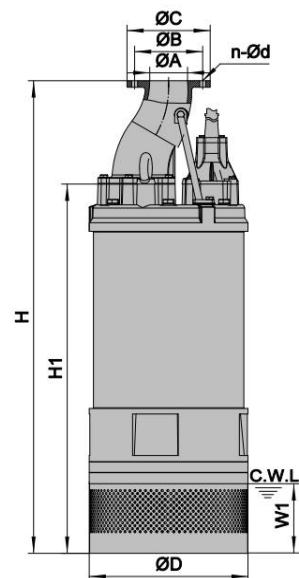
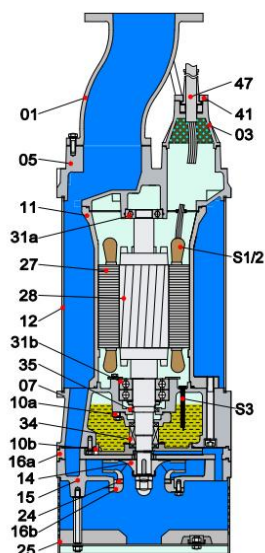
- Deep-well pre-dewatering or high-head dewatering
- Civil engineering and construction works
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

special features on request

- Other voltages
- The length of cable is optional

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C.W.L.: continuous running water level

Materials of components

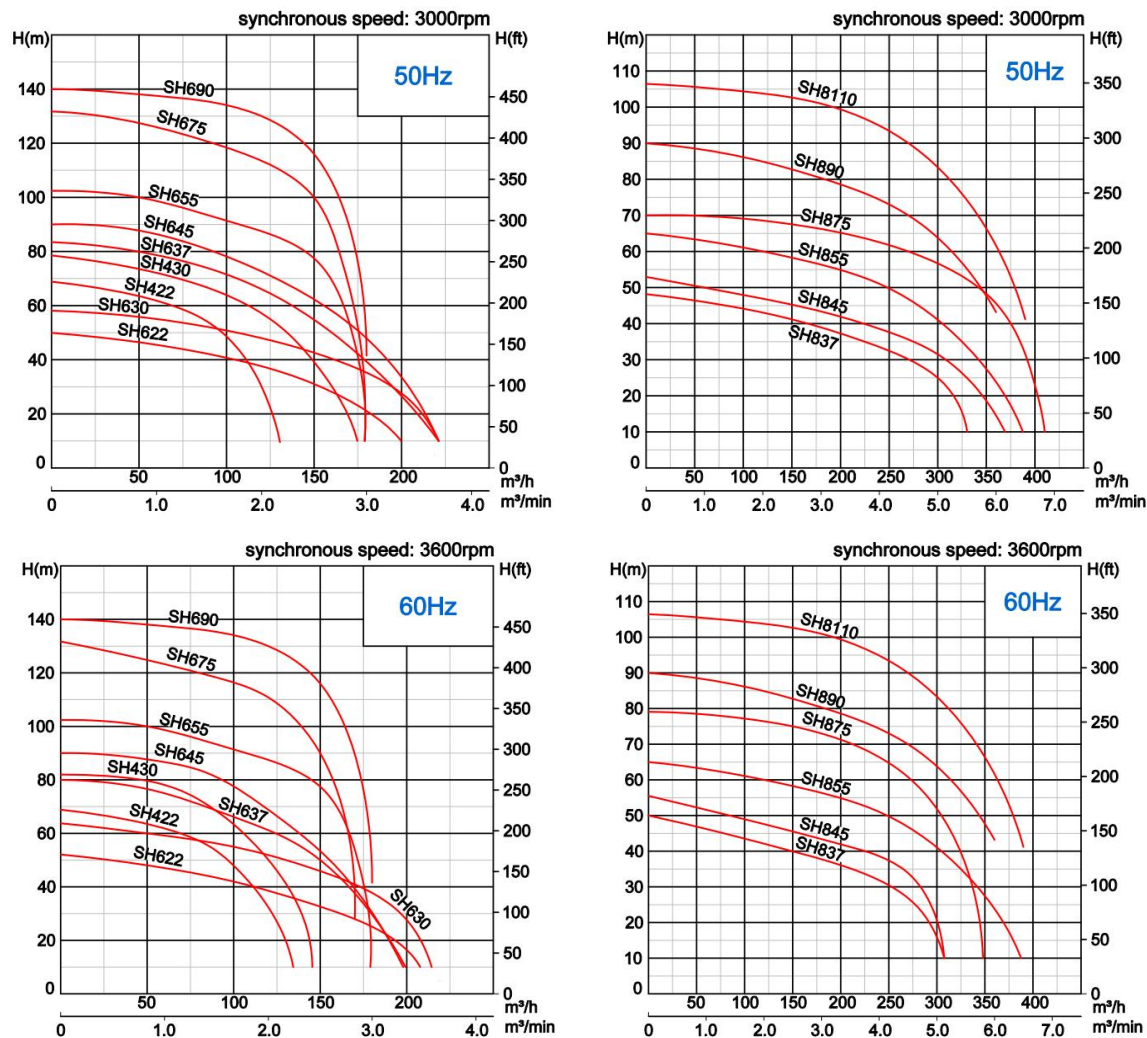
Item No.	Part name	Material	Item No.	Part name	Material
01	Discharge connection	Ductile iron	25	Strainer	Stainless steel
03	Terminal box	Cast iron	27	Stator	
05	Upper cover	Cast iron	28	Rotor	Shaft: AISI420SS
07	Bearing house	Cast iron	31a	Bearing	
10a	Seal bracket	Cast iron	31b	Bearing	
10b	Seal bracket	Cast iron	34	Mechanical seal	Tc-Sic/Sic-Sic
11	Motor body	Cast iron	35	Oil seal	
12	Outer casing	Steel	41	Shim	
14	Impeller	High chrome alloy	47	Cable	
15	Diffuser	Ductile iron	S1/2	Overheat protector	
16a	Inlet plate	Ductile iron	S3	Oil water leakage probe : 55~150kW (22~45kW : on option)	
16b	Inlet plate	High chrome alloy			
24	Neck ring	Cast iron			

Dimensions & weights

Model (50/60Hz)	A mm	B mm	C mm	n-Ø d mm	D mm	H mm	H1 mm	W1 mm	N.W Kg	G.W Kg	Packing dimension mm
SH422	100	180	220	8-Ø 18	420	1374	1072	240	370	410	1495x490x705
SH430	100	180	220	8-Ø 18	420	1374	1072	240	375	415	1495x490x705
SH622	150	240	285	8-Ø 22	420	1434	1082	250	385	425	1565x490x705
SH630	150	240	285	8-Ø 22	420	1434	1082	250	390	430	1565x490x705
SH637	150	240	285	8-Ø 22	530	1424	1072	180	570	615	1605x600x860
SH645	150	240	285	8-Ø 22	530	1424	1072	180	575	620	1605x600x860
SH837	200	295	340	12-Ø 22	530	1474	1072	180	575	625	1605x600x860
SH845	200	295	340	12-Ø 22	530	1474	1072	180	580	630	1605x600x860
SH655	150	240	285	8-Ø 22	550	1630	1280	200	840	890	1815x620x920
SH675	150	240	285	8-Ø 22	550	1630	1280	200	888	938	1815x620x920
SH855	200	295	340	12-Ø 22	550	1680	1280	200	850	900	1815x620x920
SH875	200	295	340	12-Ø 22	550	1680	1280	200	898	948	1815x620x920
SH690	150	250	300	8-Ø 26	592	1687	1282	200	1110	1166	1825x665x965
SH890	200	295	340	12-Ø 22	592	1687	1282	200	1120	1176	1825x665x965
SH8110	200	295	340	12-Ø 22	592	1687	1282	200	1150	1206	1825x665x965

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Performance curves



Performance table

Model (50Hz)	Outlet	Motor power		Rated current	Rated capacity		Rated head	Max capacity		Max head	Impeller passage
	mm	KW	HP	A	m³/h	m³/min	m	m³/h	m³/min	m	mm
SH422	100	22	30	41.5/42	66	1.1	60	130/138	2.17/2.3	68	6
SH430	100	30	40	54/56	72	1.2	70/75	170/144	2.83/2.4	78/82	6
SH622	150	22	30	41.5/42	120	2.0	37/40	200/210	3.33/3.5	50/52	15
SH630	150	30	40	54/56	140	2.3	45/48	220/216	3.67/3.6	58/64	15
SH637	150	37	50	66/68	120/100	2.0/1.7	65	220/198	3.67/3.3	83/80	6
SH645	150	45	60	80/82	120/100	2.0/1.7	75	220/198	3.67/3.3	90	6
SH837	200	37	50	66/68	216	3.6	35	330/306	5.5/5.1	48/50	20
SH845	200	45	60	80/82	270	4.5	35	372/305	6.2/5.1	53/56	20
SH655	150	55	75	100/104	90	1.5	90	180	3.0	102	8
SH675	150	75	100	134/139	90	1.5	120	180/168	3.0/2.8	132	8
SH855	200	55	75	100/104	240	4.0	50	390	6.5	65	20
SH875	200	75	100	134/139	270	4.5	60	408/348	6.8/5.8	70/78	20
SH690	150	90	120	162/166	120	2.0	128	180	3.0	140	10
SH890	200	90	120	162/166	270	4.5	70	360	6.0	90	20
SH8110	200	110	150	198/203	270	4.5	90	390	6.5	107	20