

SUBMERSIBLE DRAINAGE PUMP

The body of motor and pump is made of rigid cast iron which can be used for long-lasting durability. Greatly increased maximum submersion depth due to mechanical seal resistant to high pressure. The impeller and Inlet plate are made of high chrome alloy. The hardness of this material is at least 58 HR, it's more durable than other materials. Due to the special design of the water passage, the water can make the motor cool down when they pass through the pump body. With the vertical outlet design at the top, this pump can be used in smaller space. This pump has built-in thermal protection to protect the motor over thousands of times. This pump has the special technology of the cable, so you don't need to worry about the leakage of water from cable any more. Discharge 50mm (2") to 150mm (6"). motor 1.5kW (2HP) to 15kW(20HP).



4QFDJGJDBUJPO

- Capacity: up to 160 m³/h
- Head: up to 57 meters
- Power: 1.5kW(2HP) to 15 kW (20HP)
- Power supply: three phase 380V? 10%,50Hz
380V? 10%,60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10m
- Water temperature: up to 40°C
- Max. water depth: 20m

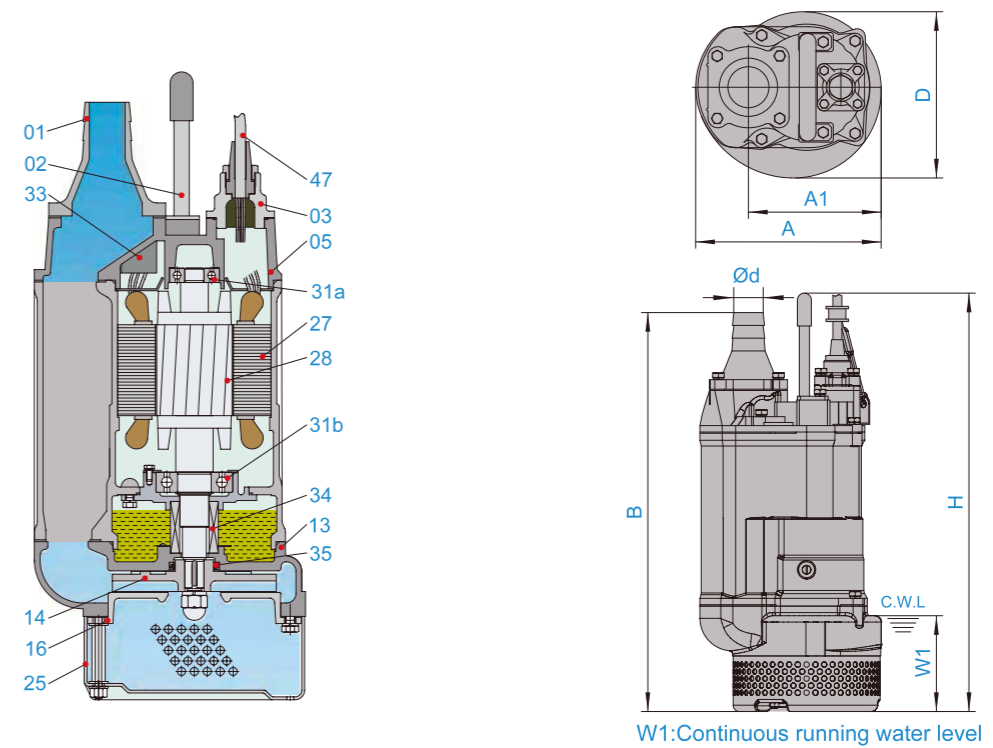
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- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

4QFDJBMGFBUVSFTPOSFRVFT

- Other voltages
- The length of cable is optional

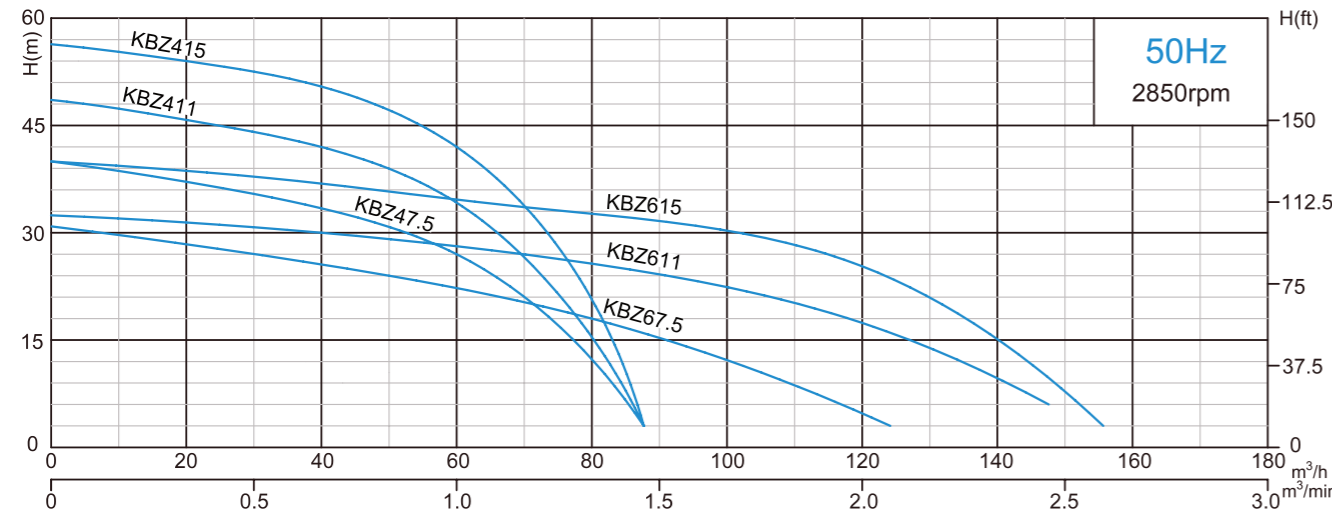
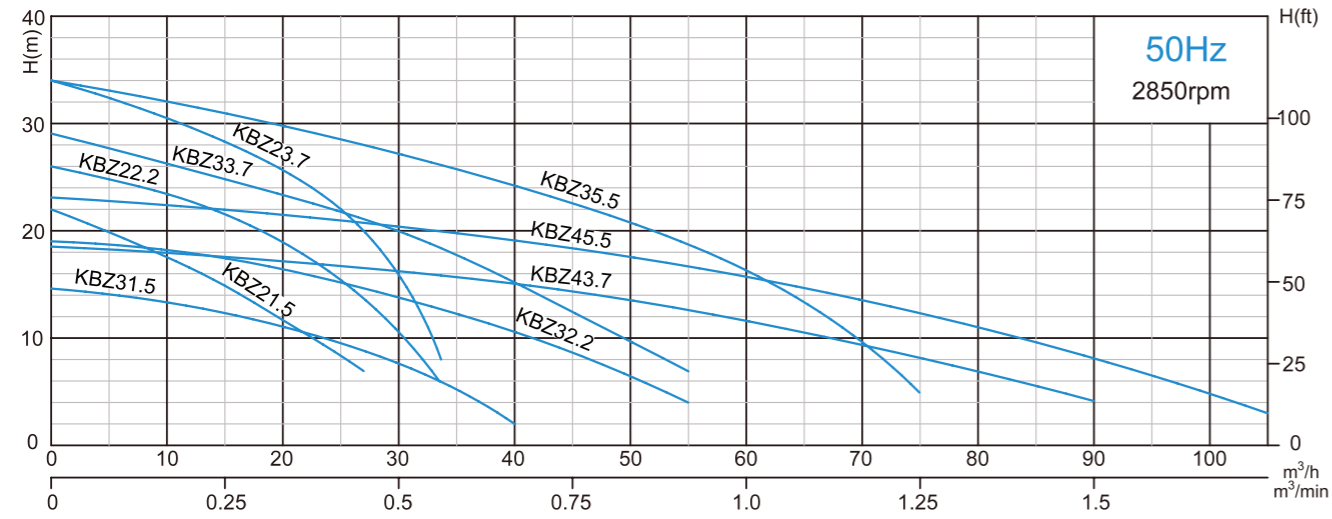
SUBMERSIBLE DRAINAGE PUMP



Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Cast iron	27	Stator	
02	Handle	Rubber&steel	28	Rotor	Shaft:AISI420SS
05	Upper cover	Cast iron	31a	bearing	Ball bearing
11	Motor body	Cast iron	31b	bearing	Ball bearing
13	Pump body	Cast iron	33	Motor protector	
14	Impeller	High chrome alloy	34	Mechanical seal	Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(≤3.7kW)
16	Inlet plate	High chrome alloy	35	Oil seal	
25	Strainer	Steel	47	Cable	

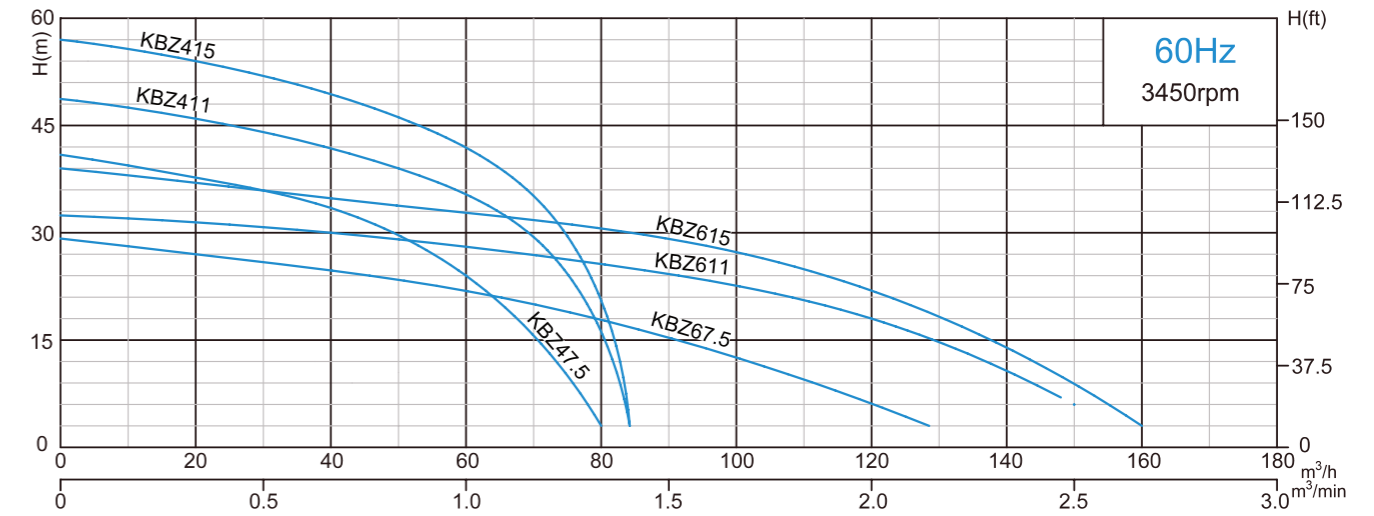
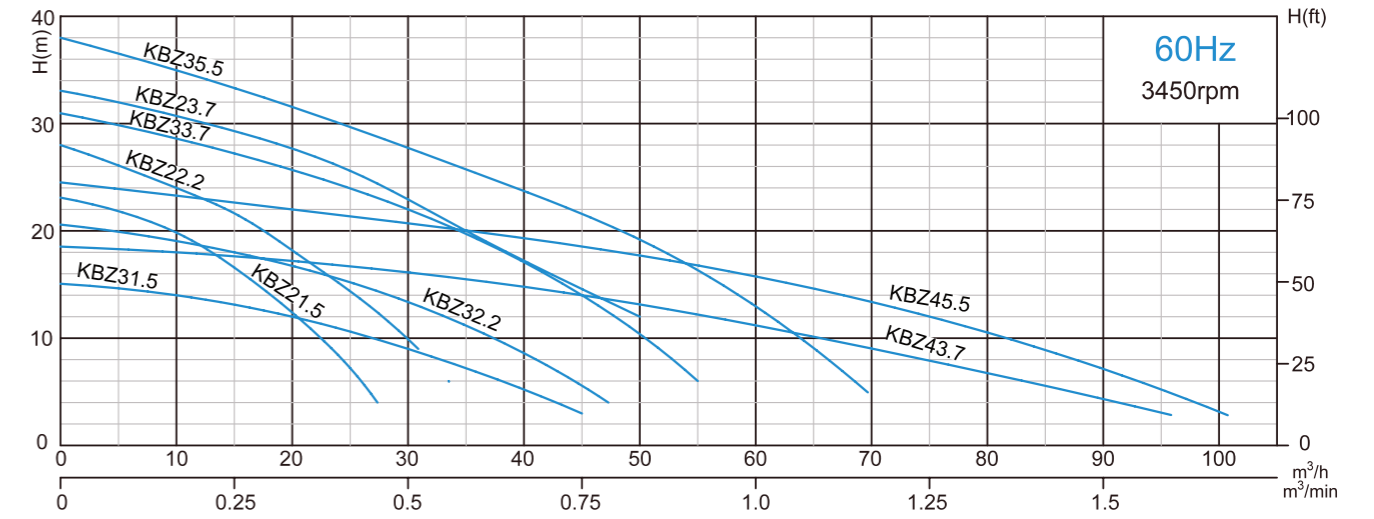
Model	d	A	A1	B	D	H	W1	/8	G.W	Packing dimension
(50/60Hz)	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	(mm)
KBZ21.5	50	235	173	535	216	505	120	36	40	590X290X260
KBZ31.5	80	235	173	535	216	505	120	36	40	590X290X260
KBZ22.2	50	235	173	535	216	505	120	39	43	590X290X260
KBZ32.2	80	235	173	535	216	505	120	39	43	590X290X260
KBZ23.7	50	283	208	628	252	629	150	63	68	690X340X330
KBZ33.7	80	283	208	628	252	629	150	63	68	690X340X330
KBZ43.7	100	283	208	642	252	629	150	63	68	690X340X330
KBZ35.5	80	283	208	671	252	590	150	77	84	740X370X380
KBZ45.5	100	283	208	686	252	590	150	77	84	740X370X380
KBZ47.5	100	330	240	764	314	676	190	106	116	810X370X410
KBZ67.5	150	330	240	790	314	676	190	108	119	860X430X450
KBZ411	100	373	255	807	350	695	190	136	148	840X370X410
KBZ611	150	373	255	807	350	695	190	139	150	860X430X450
KBZ415	100	373	255	842	350	755	190	144	158	890X430X450
KBZ615	150	373	255	842	350	755	190	146	160	890X430X450

SUBMERSIBLE DRAINAGE PUMP



Model 50HZ	Outlet mm	Motor power		Rated current (400V) A	Rated capacity		Rated head m	Max capacity		Max head m	impeller passage mm
		kW	HP		m³/h	m³/min		m³/h	m³/min		
KBZ21.5	50	1.5	2	3.5	15	0.25	15	27	0.45	22	8.5
KBZ31.5	80	1.5	2	3.5	30	0.50	8	40	0.67	14.5	8.5
KBZ22.2	50	2.2	3	5.0	18	0.30	20	33	0.55	26	8.5
KBZ32.2	80	2.2	3	5.0	36	0.60	11	55	0.92	19	8.5
KBZ23.7	50	3.7	5	7.7	12	0.20	30	33	0.55	34	8.5
KBZ33.7	80	3.7	5	7.7	30	0.50	20	55	0.92	29	8.5
KBZ43.7	100	3.7	5	7.7	60	1.0	11.5	90	1.50	18.5	8.5
KBZ35.5	80	5.5	7.5	11.4	36	0.60	25	75	1.25	34	8.5
KBZ45.5	100	5.5	7.5	11.4	60	1.0	16	105	1.75	23	8.5
KBZ47.5	100	7.5	10	15	48	0.8	30	84	1.40	40	11.5
KBZ67.5	150	7.5	10	15	90	1.60	15	124.8	2.08	31	19.5
KBZ411	100	11	15	22	60	1.0	35	84	1.40	48.5	11.5
KBZ611	150	11	15	22	102	1.70	22	147	2.45	32	19.5
KBZ415	100	15	20	29.5	60	1	42	84	1.40	56	11.5
KBZ615	150	15	20	29.5	102	1.7	30	156	2.6	40	19.5

SUBMERSIBLE DRAINAGE PUMP



Model 60HZ	Outlet mm	Motor power		Rated current (400V) A	Rated capacity		Rated head m	Max capacity		Max head m	impeller passage mm
		kW	HP		m³/h	m³/min		m³/h	m³/min		
KBZ21.5	50	1.5	2	3.5	15	0.25	16.5	27	0.45	23	8.5
KBZ31.5	80	1.5	2	3.5	30	0.50	9	45	0.75	15	8.5
KBZ22.2	50	2.2	3	5.1	18	0.30	20	31	0.52	28	8.5
KBZ32.2	80	2.2	3	5.1	30	0.60	13	47	0.78	20.5	8.5
KBZ23.7	50	3.7	5	8.0	12	0.2	30	50	0.83	33	8.5
KBZ33.7	80	3.7	5	8.0	30	0.5	22	55	0.92	31	8.5
KBZ43.7	100	3.7	5	8.0	60	1.0	11.5	96	1.6	18.5	8.5
KBZ35.5	80	5.5	7.5	11.6	36	0.60	25	69	1.15	38	8.5
KBZ45.5	100	5.5	7.5	11.6	60	1.0	16	102	1.70	24.4	8.5
KBZ47.5	100	7.5	10	15.4	48	0.8	30	80	1.33	41	11.5
KBZ67.5	150	7.5	10	15.4	90	1.60	15	127	2.12	31	19.5
KBZ411	100	11	15	22.5	60	1.0	35	84	1.40	48.5	11.5
KBZ611	150	11	15	22.5	102	1.70	22	147	2.45	32	19.5
KBZ415	100	15	20	30	60	1.0	42	84	1.40	57	11.5
KBZ615	150	15	20	30	102	1.70	27	160	2.67	39	19.5

SUBMERSIBLE DRAINAGE PUMP

The Agitator Pump KBD Series is a cast iron made, heavy-duty slurry pump employing the KBZ Series as the base.

An agitator is provided to assist smooth suction of the pumping fluid.

The side-flow, top-discharge design keeps the motor cooling even if the pump is operated continuously with its motor exposed in air, and it makes the pump easier to be placed in a confined space.

This pump is suitable for transferring or draining bentonite slurry used for slurry drilling, draining slurry mixed water in civil engineering works or foundation works.



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- Capacity: up to 90 m³/h
- Head: up to 30 meters
- Power: 1.5kW(2HP) to 3.7 kW (5HP)
- Power supply: three phase 400V? 10%,50Hz
380V? 10%,60Hz

- Insulation class: F
- Protection class: IP68
- Cable length: 10m
- Water temperature: up to 40°C
- Max. water depth: 20m

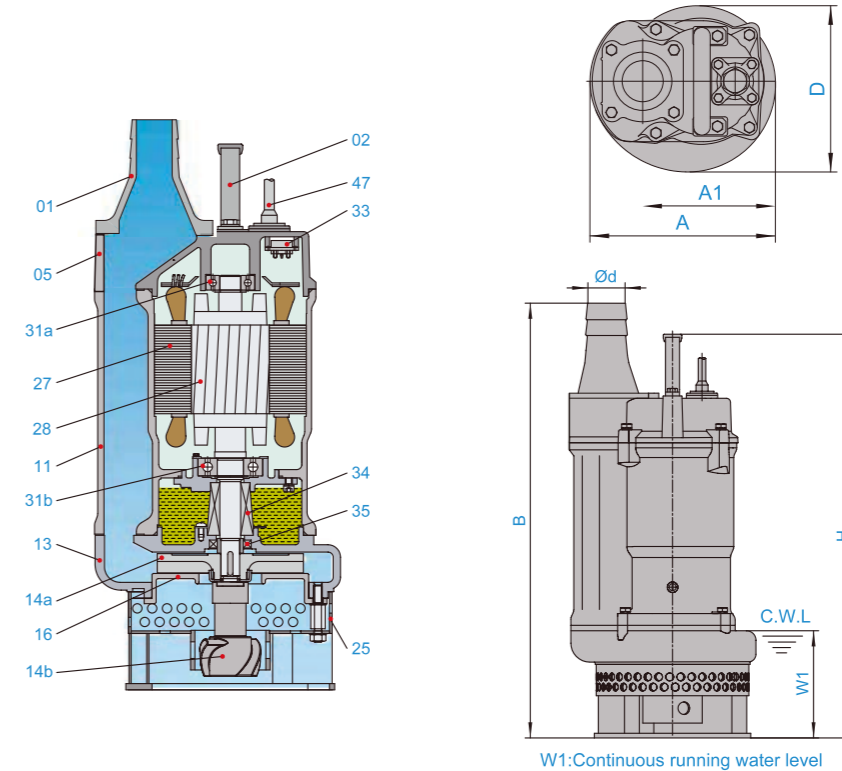
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- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

4QFDJBMGFBUVSFTPOSFRVFT

- Other voltages
- The length of cable is optional

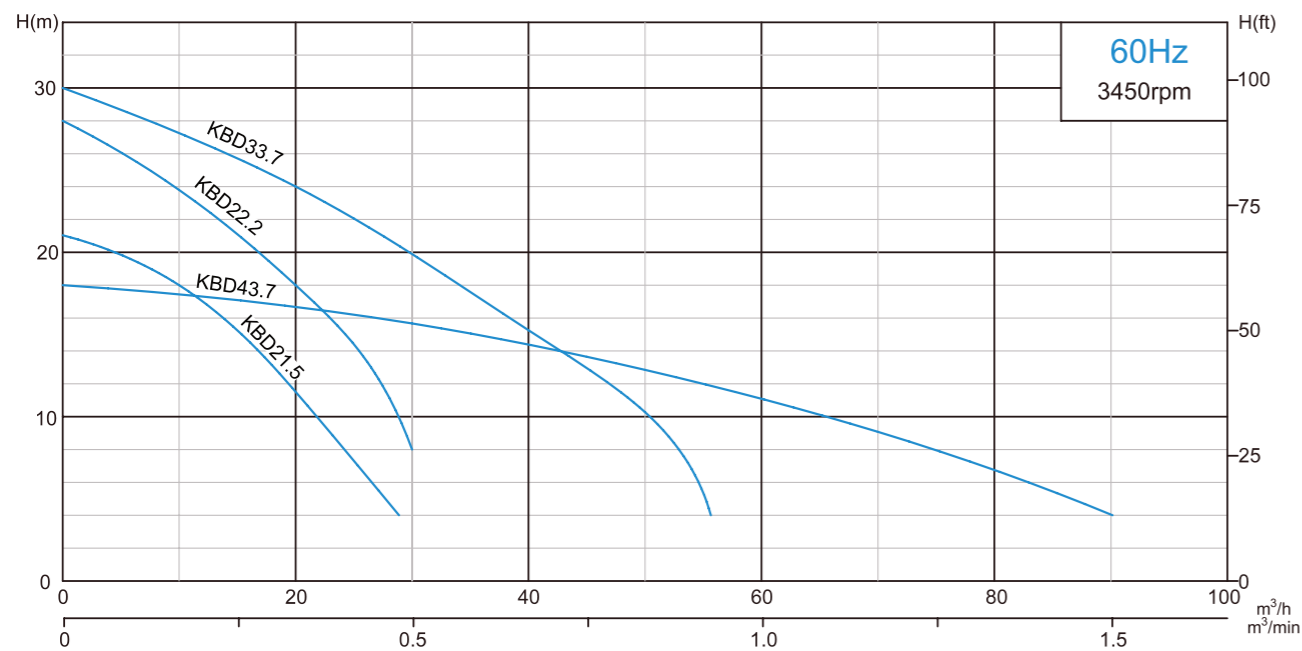
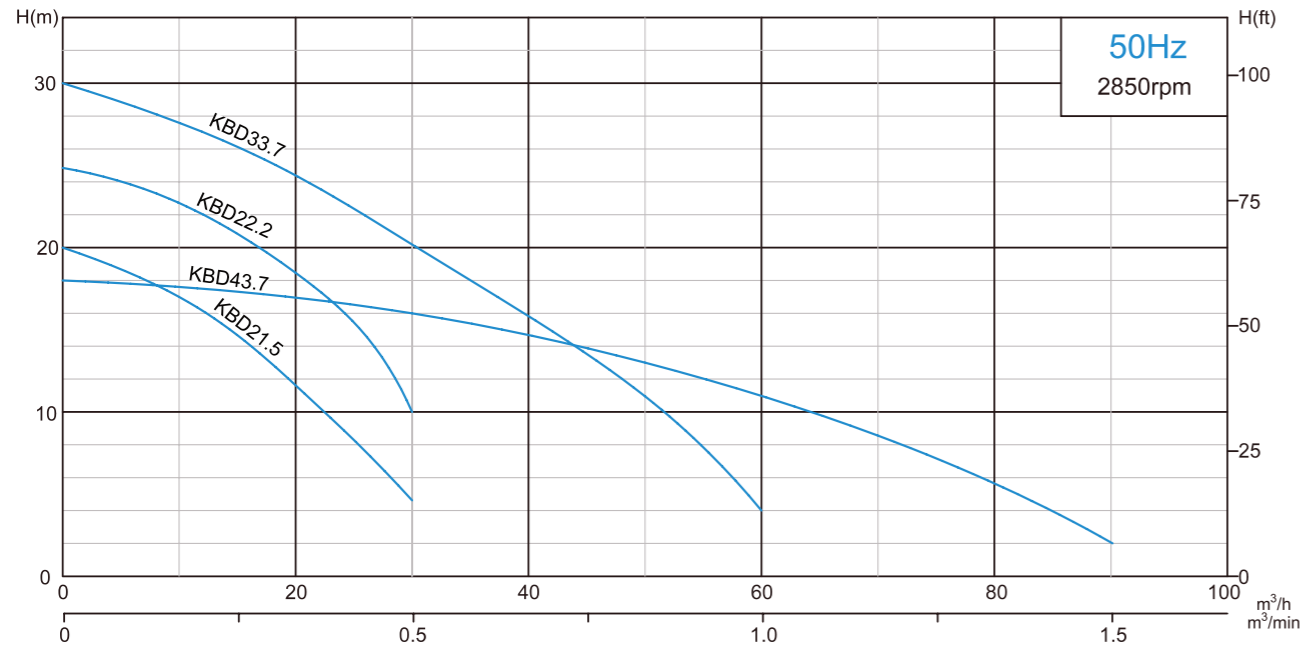
SUBMERSIBLE DRAINAGE PUMP



Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Cast iron	27	Stator	
02	Handle	Rubber&steel	28	Rotor	Shaft:AIS1420SS
05	Upper cover	Cast iron	31a	Bearing	Ball bearing
11	Motor body	Cast iron	31b	Bearing	Ball bearing
13	Pump body	Cast iron	33	Motor protector	
14a	Impeller	High chrome alloy	34	Mechanical sea	Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(≤3.7kW)
14b	Agitator	High chrome alloy	35	Oil seal	
16	Inlet plate	Ductile iron	47	Cable	
25	Strainer	Steel			

Model	d	A	A1	B	D	H	W1	/8	G.W	Packing dimension
50/60Hz	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
KBD21.5	50	235	173	557	216	522	135	37	41	610X265X265
KBD22.2	50	235	173	557	216	522	135	40	44	610X265X265
KBD33.7	80	283	208	636	252	642	165	64	69	710X320X295
KBD43.7	100	283	208	661	252	642	165	65	70	710X320X295

SUBMERSIBLE DRAINAGE PUMP



Model 50/60HZ	Outlet mm	Motor power		Rated current (400V) A	Rated capacity		Rated head m	Max capacity		Max head m	Impeller passage mm
		kW	HP		m³/h	m³/min		m³/h	m³/min		
KBD21.5	50	1.5	2	3.5	15	0.25	15	30/27	0.50/0.45	20/21	10
KBD22.2	50	2.2	3	5.0	18	0.3	19	30	0.50	25/28	10
KBD33.7	80	3.7	5	7.7	30	0.5	20	60/55	1.0/0.92	30	10
KBD43.7	100	4.7	5	7.7	60	1.0	11	90	1.50	18	10

SUBMERSIBLE DRAINAGE PUMP

Submersible slurry pump with a 4-pole motor for an increased lifetime and greater convenience.
High chrome alloy impeller combined with agitator for pumping heavy slurry.
Slim design with a top discharge enabling installation in smaller casing.
For bentonite mixed water in foundation works or muddy water in civil engineering works.



4QFDJGJDBUJPO

- Capacity: up to 372 m³/h
- Head: up to 32 meters
- Discharge: 80mm(3") to 200mm(8")
- Power: 4 kW(5.5HP) to 22 kW (30HP)
- Power supply: three phase 380V? 10%, 50Hz
380V? 10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 10m
- Water temperature: up to 40°C
- Max. water depth: 15m

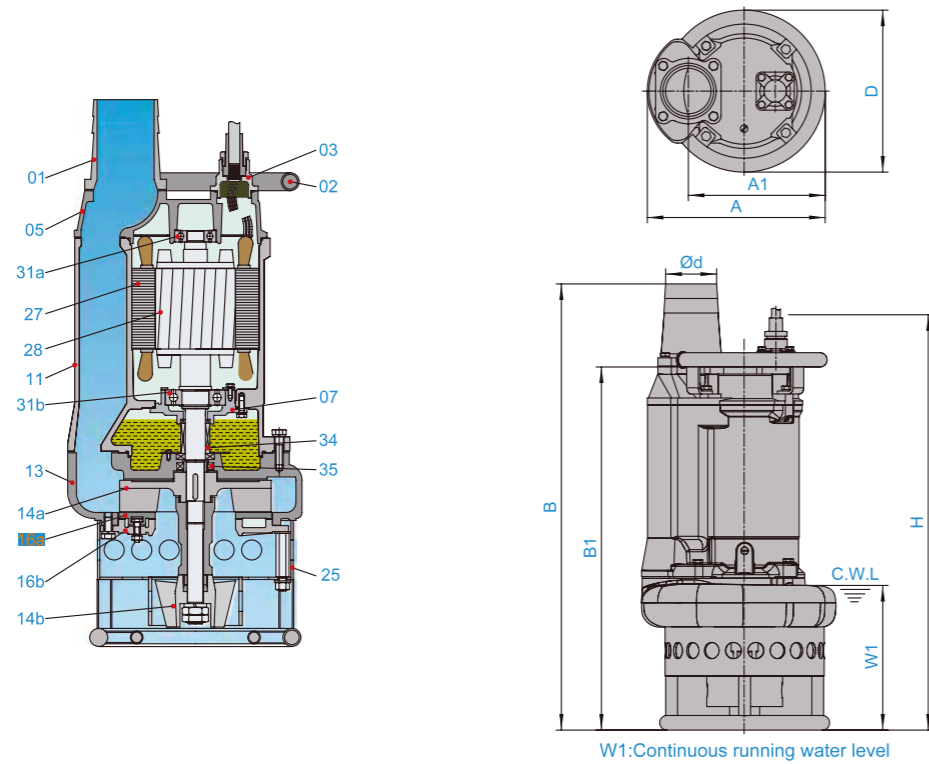
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- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes
- Pumping fluid: sludge, liquids-containing
mud and bentonite

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- Other voltages
- The length of cable is optional

SUBMERSIBLE DRAINAGE PUMP

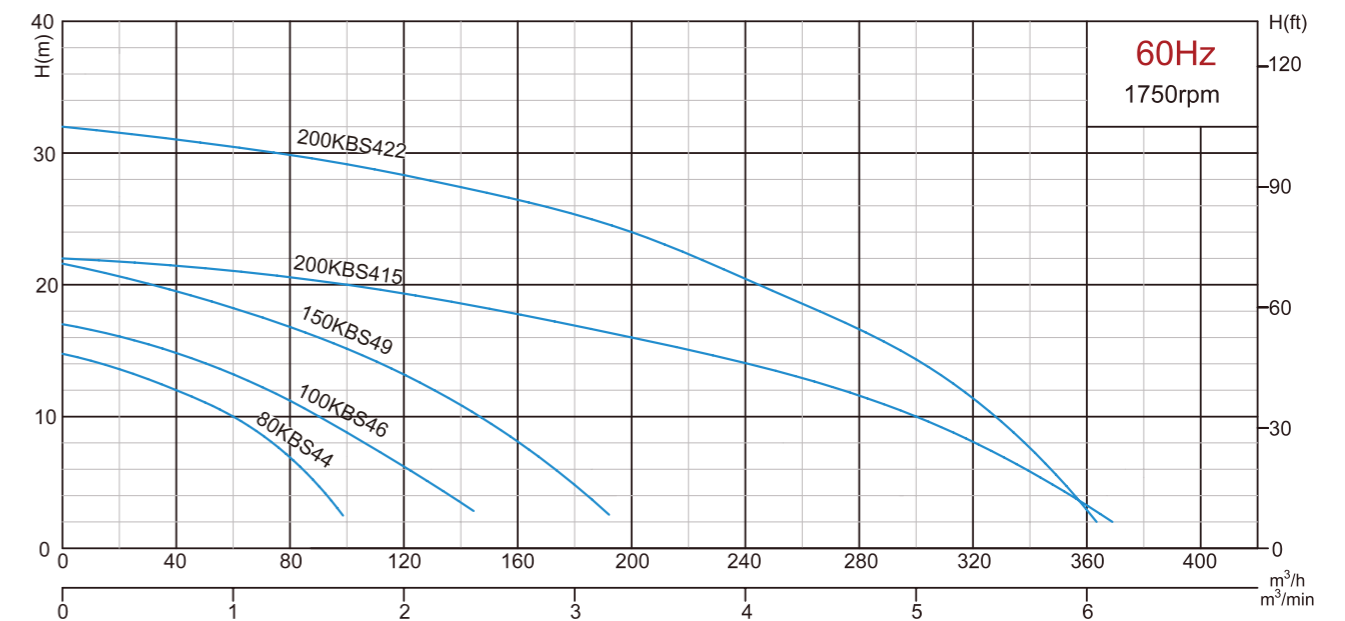
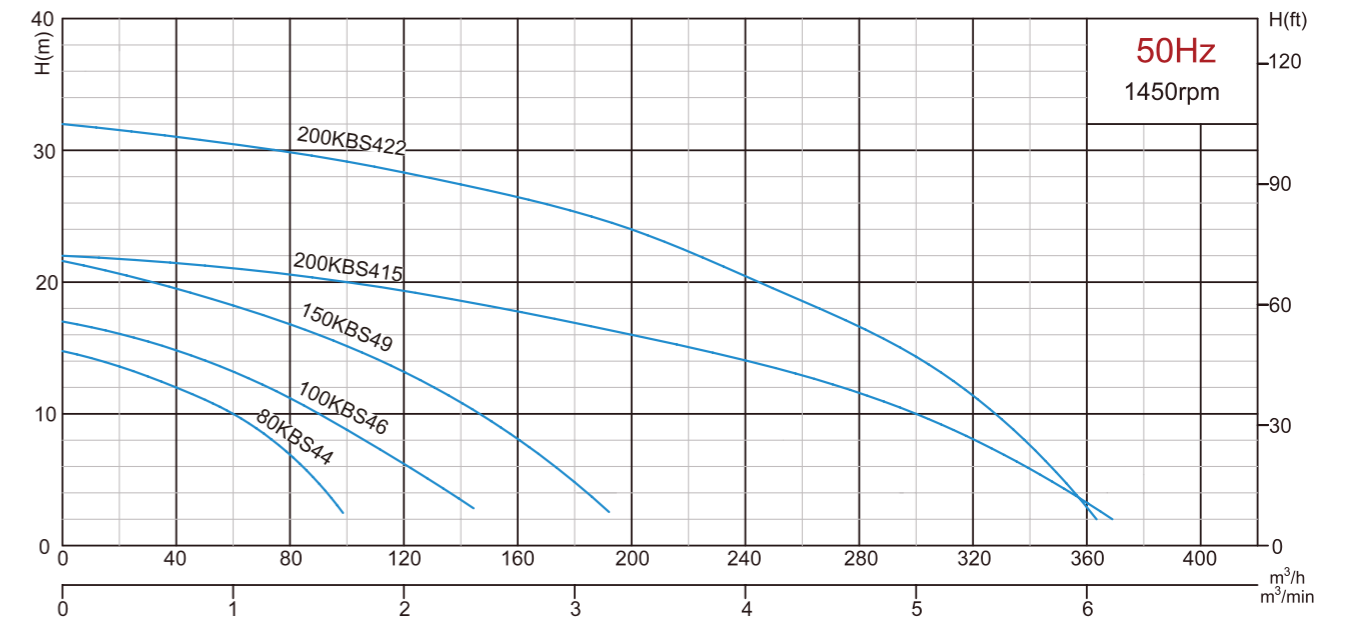


Item No.	Part name	Material
01	Hose coupling	Cast iron
02	Handle	Steel
05	Upper cover	Cast iron
07	Bearing house	Cast iron
11	Motor body	Cast iron
13	Pump body	Cast iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16a	Inlet plate	High chrome alloy

Item No.	Part name	Material
16b	Inlet plate	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft:AIS1420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical sea	Sic-Sic/Sic-Sic Tc-Sic/Sic-Sic(≥15kW)
35	Oil seal	
47	Cable	

Model	d	A	A1	B	B1	D	H	W1	/8	G.W	Packing dimension
50/60Hz	mm	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
KBS44	80	350	260	816	678	326	730	250	108.5	119	885X385X395
KBS46	100	415	305	844	682	373	730	250	141	151	470X410X985
KBS49	150	434	324	889	727	407	776	250	171	183	470X470X1045
KBS415	200	484	352	1121	889	457	980	295	260	278	540X500X1220
KBS422	200	578	442	1245	1015	528	1200	330	408	434	740X570X1460

SUBMERSIBLE DRAINAGE PUMP



Model 50/60HZ	Outlet	Motor power		Starting Method	Rated current (380V)	Rated capacity		Rated head	Max capacity		Max head	impeller passage
	mm	kW	HP			m³/h	m³/min		m³/h	m³/min		
KBS44	80	4	5.5	D.O.L.	10.2	60	1.0	10	99	1.65	14.8	30
KBS46	100	6	8	D.O.L.	13.8	90	1.50	10	144	2.40	16.9	30
KBS49	150	9	12	D.O.L.	19.5	100	1.67	15	192	3.20	21.5	30
KBS415	200	15	20	D.O.L.	30.1	200	3.33	16	372	6.20	22	30
KBS422	200	22	30	Star-Delta	42	200	3.33	24	360	6	32	30

SUBMERSIBLE DRAINAGE PUMP

Hydraulic part under the motor and motor cooled by the pumped water for safe operation also with the pump only partially immersed
Double shaft seal with interposed oil chamber.



Specification

- Water temperature: up to 40°C
- PH: 6.5-8.5
- Power supply: three phase, 380V ± 10%, 50Hz
380V ± 10%, 60Hz
- Power: 2.2kW to 25kW
- Insulation class: B
- Protection class: IP68
- Capacity: up to 100 m³/h
- Head: up to 204 meters
- Maximum immersion depth: 20m
- Cable length: 10m

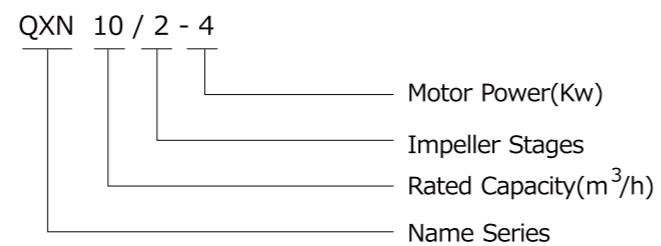
Special features on request

- Other voltages
- The length of cable is optional

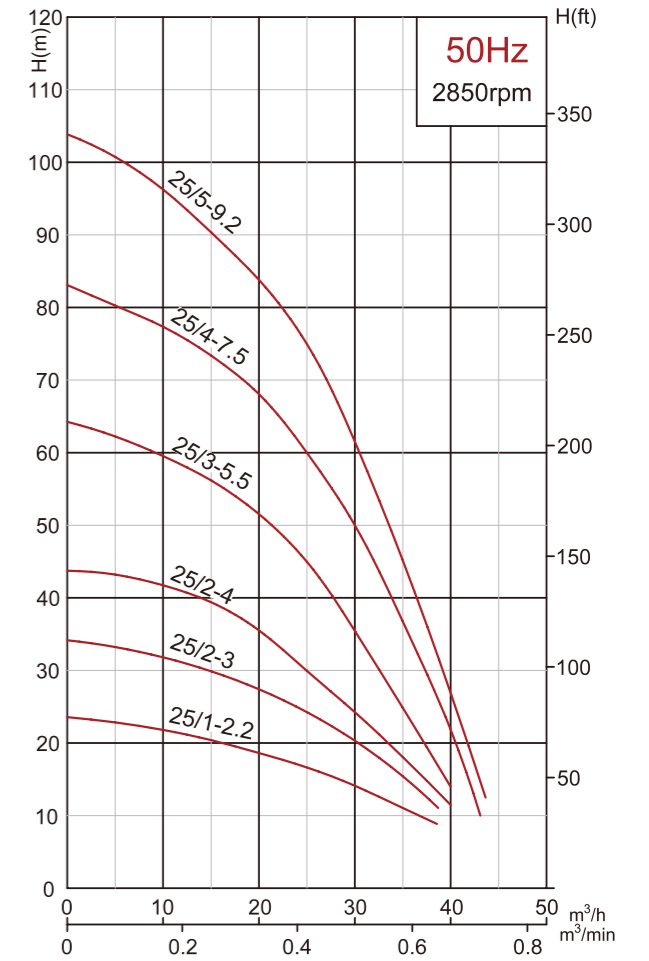
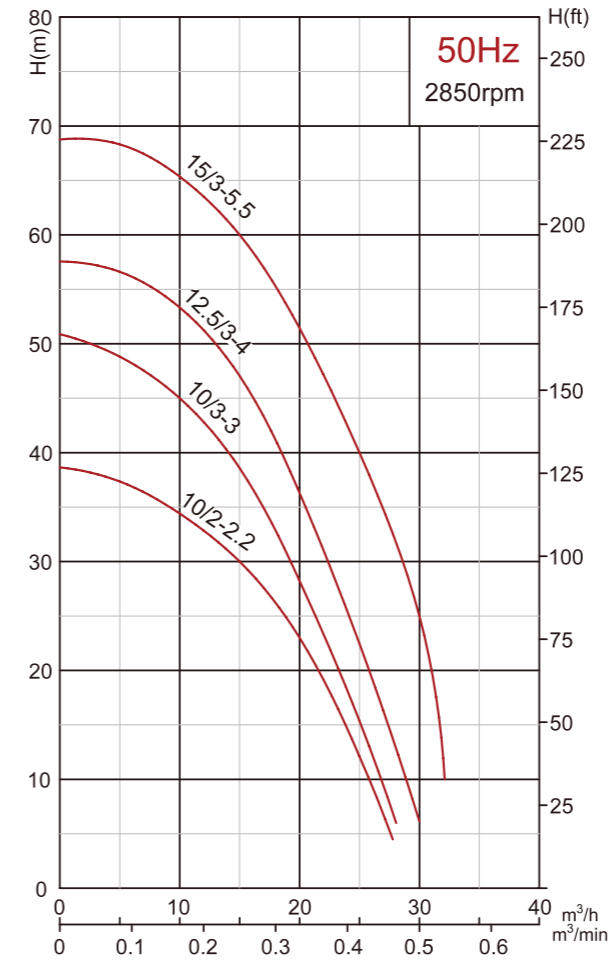
Application

- For mining, building, factory and industrial applications.
- For water supply from wells, tanks or reservoirs.
- For garden use and agricultural irrigation.

Nomenclature

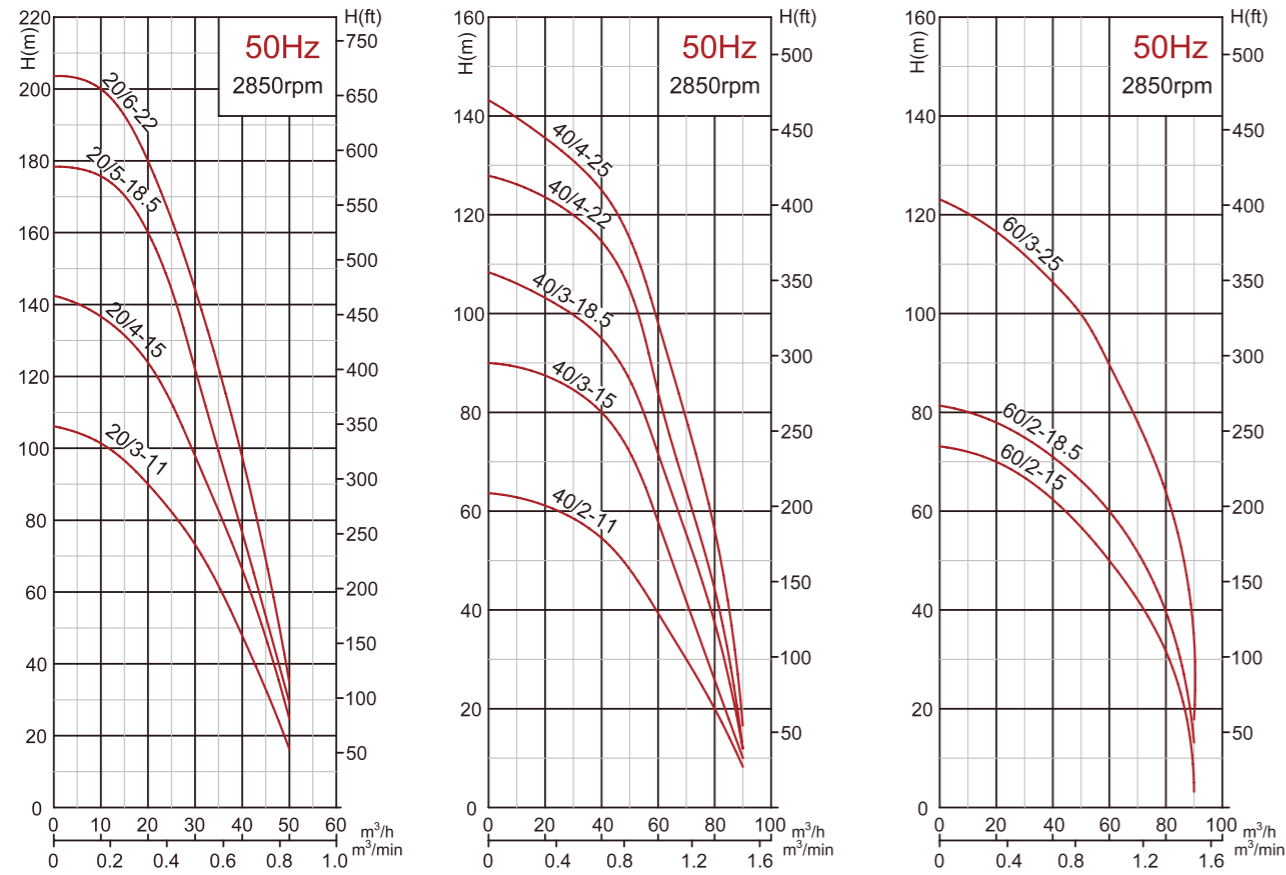


SUBMERSIBLE DRAINAGE PUMP



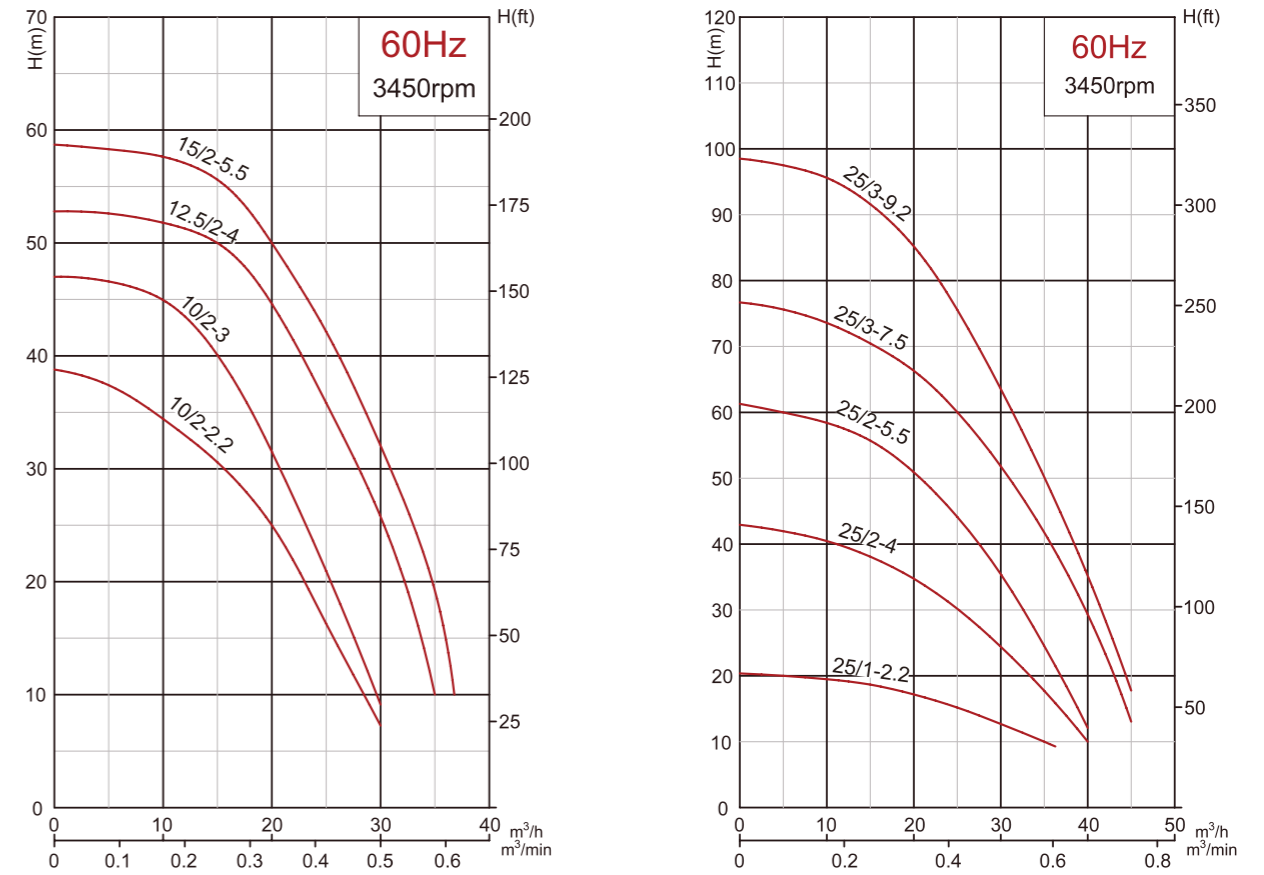
Model 50Hz	Motor power		Rated current (380V) A	Motor protector	Outlet mm	Rated capacity m ³ /h	Rated head m	Max capacity m ³ /h	Max head m	Impeller passage mm
	kW	HP								
QXN10/2-2.2	2.2	3	5.4	Built-in	50	10	34	28	38	6
QXN25/1-2.2	2.2	3	5.4	Built-in	65	25	17	37	23	6
QXN10/3-3	3	4	7.2	Built-in	50	10	45	28	51	6
QXN25/2-3	3	4	7.2	Built-in	65	25	25	37	33	6
QXN12.5/3-4	4	5.5	8.8	Built-in	50	12.5	50	30	57	6
QXN25/2-4	4	5.5	8.8	Built-in	65	25	30	40	43	6
QXN15/3-5.5	5.5	7.5	11.7	Built-in	50	15	60	32	67	6
QXN25/3-5.5	5.5	7.5	11.7	Built-in	65	25	45	40	64	6
QXN25/4-7.5	7.5	10	15.7	Built-in	65	25	60	42	84	6
QXN25/5-9.2	9.2	12.5	19.1	-	65	25	75	44	104	6

SUBMERSIBLE DRAINAGE PUMP



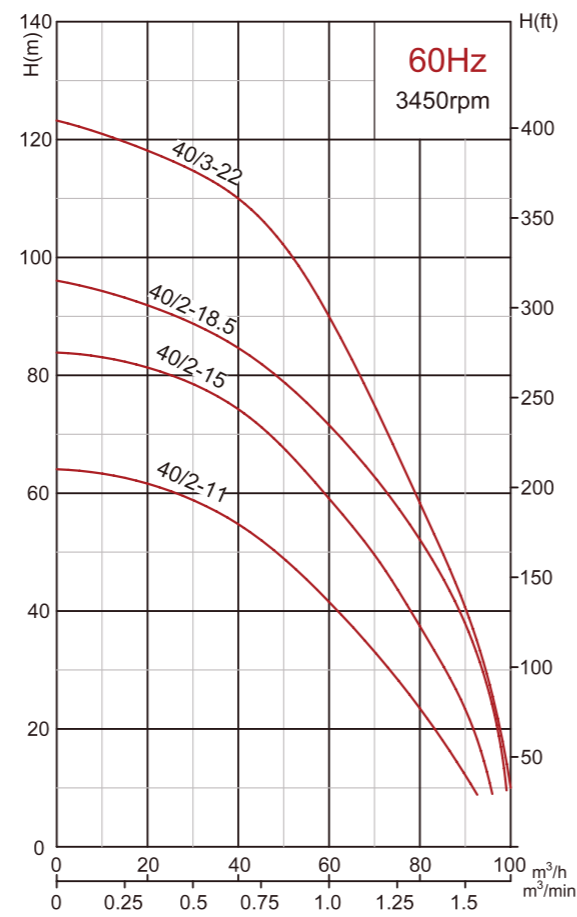
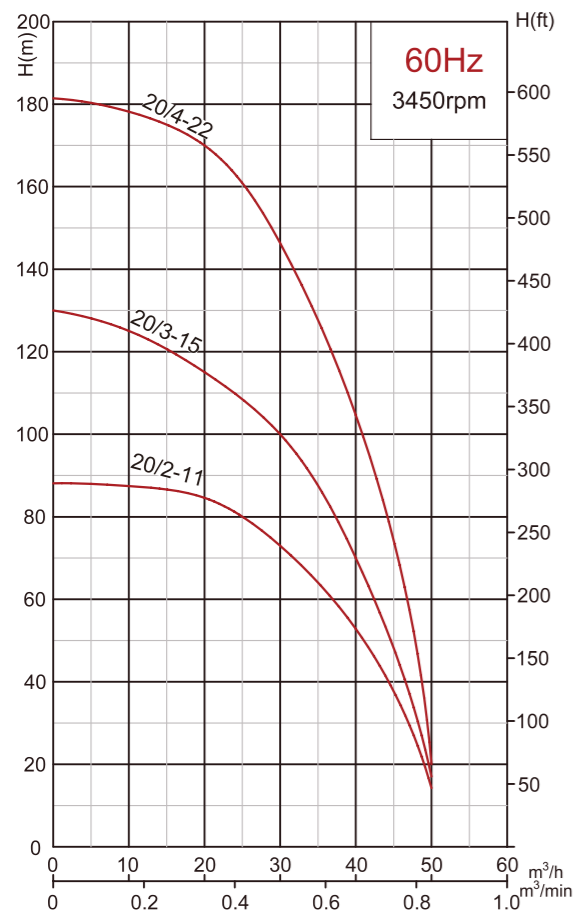
Model 50HZ	Motor power		Rated current (380V) A	Outlet mm	Rated capacity m³/h	Rated head m	Max capacity m³/h	Max head m	Impeller passage mm
	kW	HP							
QXN20/3-11	11	15	22	65	20	90	50	106	6
QXN40/2-11	11	15	22	80	40	55	90	63	8
QXN20/4-15	15	20	31	65	20	125	50	142	6
QXN40/3-15	15	20	31	80	40	80	90	90	8
QXN60/2-15	15	20	31	100	60	50	90	73	10
QXN20/5-18.5	18.5	25	37.2	65	20	160	90	178	6
QXN40/3-18.5	18.5	25	37.2	80	40	95	90	108	8
QXN60/2-18.5	18.5	25	37.2	100	60	60	90	81	10
QXN20/6-22	22	30	45	65	20	180	90	204	6
QXN40/4-22	22	30	45	80	40	115	90	127	8
QXN40/4-25	25	34	51	80	40	125	90	144	8
QXN60/3-25	25	34	51	100	60	90	90	123	10

SUBMERSIBLE DRAINAGE PUMP



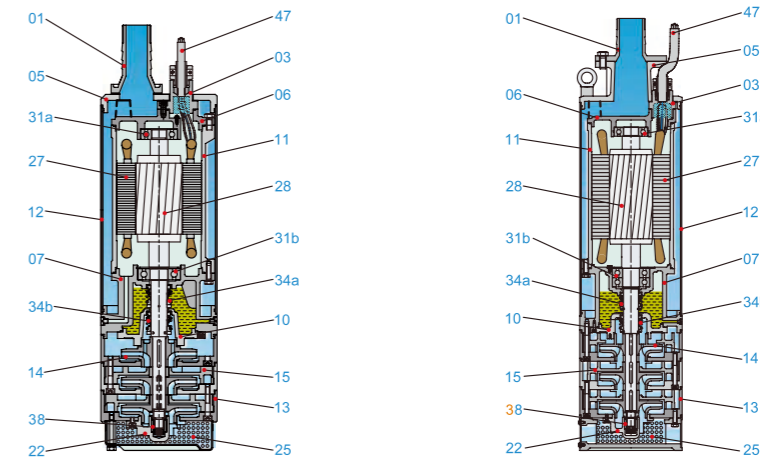
Model 60HZ	Motor power		Rated current (380V) A	Motor protector	Outlet mm	Rated capacity m³/h	Rated head m	Max capacity m³/h	Max head m	Impeller passage mm
	kW	HP								
QXN10/2-2.2	2.2	3	5.4	Built-in	50	10	34	30	38	6
QXN25/1-2.2	2.2	3	5.4	Built-in	65	25	17	35	21	6
QXN10/2-3	3	4	7.2	Built-in	50	10	45	30	47	6
QXN12.5/2-4	4	5.5	8.8	Built-in	50	12.5	50	37	53	6
QXN25/2-4	4	5.5	8.8	Built-in	65	25	30	40	43	6
QXN15/2-5.5	5.5	7.5	11.7	Built-in	50	15	57	35	59	6
QXN25/2-5.5	5.5	7.5	11.7	Built-in	65	25	45	40	62	6
QXN25/3-7.5	7.5	10	15.7	Built-in	65	25	60	45	76	6
QXN25/3-9.2	9.2	12.5	19.1	-	65	25	75	45	96	6

SUBMERSIBLE DRAINAGE PUMP



Model 60HZ	Motor power		Rated current (380V) A	Outlet mm	Rated capacity m³/h	Rated head m	Max capacity m³/h	Max head m	Impeller passage mm
	kW	HP							
QXN20/2-11	11	15	22	65	20	85	50	87	6
QXN40/2-11	11	15	22	80	40	55	92	63	8
QXN20/3-15	15	20	31	65	20	115	50	130	6
QXN40/2-15	15	20	31	80	40	75	95	83	8
QXN40/2-18.5	18.5	25	37.2	80	40	85	98	96	8
QXN20/4-22	22	30	45	65	20	170	50	182	6
QXN40/3-22	22	30	45	80	40	110	100	123	8

SUBMERSIBLE DRAINAGE PUMP



Item No.	Part name	Material
01	Hose coupling	Cast iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
10	Seal bracket	Cast iron
11	Motor body	Cast iron
12	Outer casing	AlSi304SS
13	Pump casing	Cast iron
14	Impeller	Cast iron
15	Diffuser	Cast iron

Item No.	Part name	Material
22	Seat assembly	Cast iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft:Stainless steel
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34a	Mechanical sea	SIC-SIC
34b	Mechanical sea	Sic-Sic(≤ 9.2kW)
38	Shaft sleeve	TC-Sic(≥ 11kW)
47	Cable	NBR & Steel

Dual purpose water outlet joint

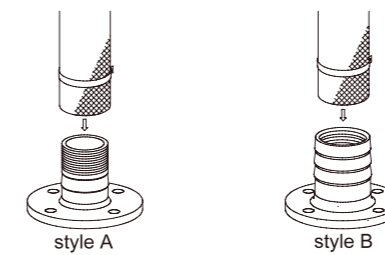


diagram of using hose

Outlet D	Style	Hose		Steel pipe	
		I.D.	G	Transition joint	Nominal pipe diameter
50	A	50	G1 1/2"	G1 1/2" → G2"	50
65	A	65	G2"	G2" → G2 1/2"	65
80	A	80	G2 1/2"	G2 1/2" → G3"	80
100	B	100	G3"	G3" → G4"	100

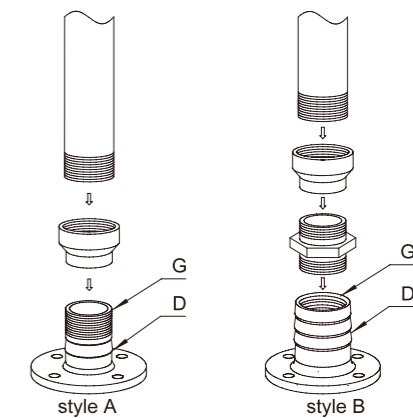
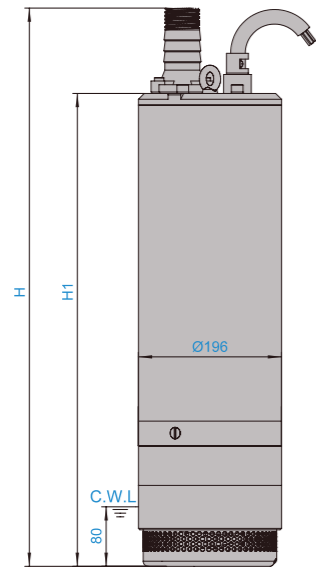
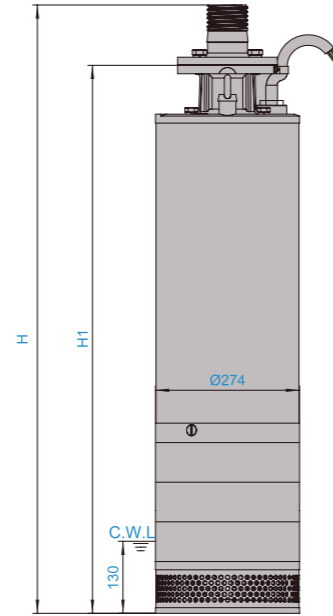


diagram of use steel pipe

SUBMERSIBLE D DRAINAGE PUMP



C.W.L.:Continuous running water level



C.W.L.:Continuous running water level

50Hz	Dimension			Weight		Packing dimension (mm)
	φ	H1	H	N.W	G.W	
Model	mm	mm	mm	Kg	Kg	
QXN10/2-2.2	φ196	555	670	53	57	750X230X275
QXN25/1-2.2	φ196	515	630	47	51	720X230X275
QXN10/3-3	φ196	6300	715	62	66	795X230X275
QXN25/2-3	φ196	570	685	57	61	765X230X275
QXN12.5/3-4	φ196	635	750	67	72	830X230X275
QXN25/2-4	φ196	600	715	64	68	800X230X275
QXN15/3-5.5	φ196	680	795	75	80	875X230X275
QXN25/3-5.5	φ196	705	820	78	84	900X230X275
QXN25/4-7.5	φ196	825	940	92	98	1020X230X275
QXN25/5-9.2	φ196	910	1025	106	113	1105X230X275
QXN20/3-11	φ274	895	1010	178	189	1095X305X385
QXN40/2-11	φ274	901	1016	176	187	1105X305X385
QXN20/4-15	φ274	992	1107	210	222	1205X305X385
QXN40/3-15	φ274	1022	1137	206	218	1235X305X385
QXN60/2-15	φ274	946	1061	189	201	1155X305X385
QXN20/5-18.5	φ274	1066	1181	235	250	1275X305X385
QXN40/3-18.5	φ274	1042	1157	225	237	1275X305X385
QXN60/2-18.5	φ274	966	1081	204	216	1175X305X385
QXN20/6-22	φ274	1193	1308	282	297	1415X305X385
QXN40/4-22	φ274	1193	1308	241	256	1415X305X385
QXN40/4-25	φ274	1193	1308	283	298	1415X305X385
QXN60/3-25	φ274	1117	1232	263	277	1335X305X385

60Hz	Dimension			Weight		Packing dimension (mm)
	φ	H1	H	N.W	G.W	
Model	mm	mm	mm	Kg	Kg	
QXN10/2-2.2	φ196	555	670	53	57	750X230X275
QXN25/1-2.2	φ196	515	630	47	51	720X230X275
QXN10/2-3	φ196	6300	715	62	66	795X230X275
QXN12.5/2-4	φ196	570	685	57	61	765X230X275
QXN25/2-4	φ196	635	750	67	72	830X230X275
QXN15/2-5.5	φ196	600	715	64	68	800X230X275
QXN25/2-5.5	φ196	680	795	75	80	875X230X275
QXN25/3-7.5	φ196	705	820	78	84	900X230X275
QXN25/3-9.2	φ196	825	940	92	98	1020X230X275
QXN20/2-11	φ196	910	1025	106	113	1105X230X275
QXN40/2-11	φ274	895	1010	178	189	1095X305X385
QXN20/3-15	φ274	901	1016	176	187	1105X305X385
QXN40/2-15	φ274	992	1107	210	222	1205X305X385
QXN40/2-18.5	φ274	1022	1137	206	218	1235X305X385
QXN20/4-22	φ274	946	1061	189	201	1155X305X385
QXN40/3-22	φ274	1066	1181	235	250	1275X305X385