



Heavy-duty ,Excellent Durability and Reliability- safeland quality

KBZ SERIES



KBZ SUBMERSIBLE DRAINAGE PUMP

The body of motor and pump is made of rigid cast iron for long-lasting durability.
Greatly increased maximum submersion depth due to mechanical seal resistant to high pressure.
Semi-open impeller made of high chrome alloy match with wear plate (ductile iron) achieves superior durability.
Effective motor cooling due to discharge channel cast as part of the motor housing. Space saved economically by a top outlet.
Discharge 50mm(2") to 150mm (6"), motor 1.5kw (2HP) to 15kw (20HP).



Specification

- Capacity: up to 160m³/h
- Head: up to 57 meters
- power: 1.5kw (2HP) to 15kw (20HP)
- power supply: three phase 400V $\pm$ 10%, 50HZ
380V $\pm$ 10%, 60HZ
- Insulation class: F
- protection class: IP68
- cable length: 8m
- water temperature: up to 40°C
- Max. water depth: 25m

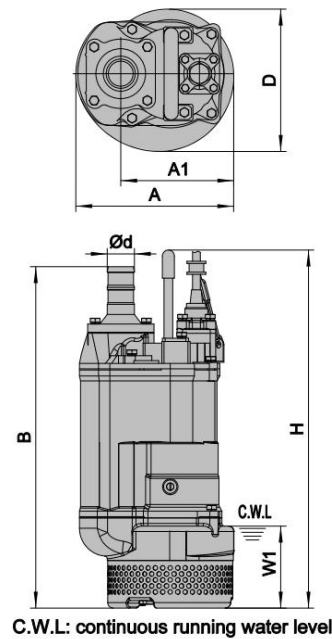
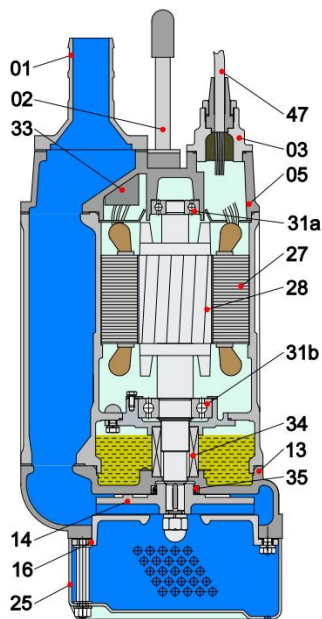
Application

- civil engineering
- 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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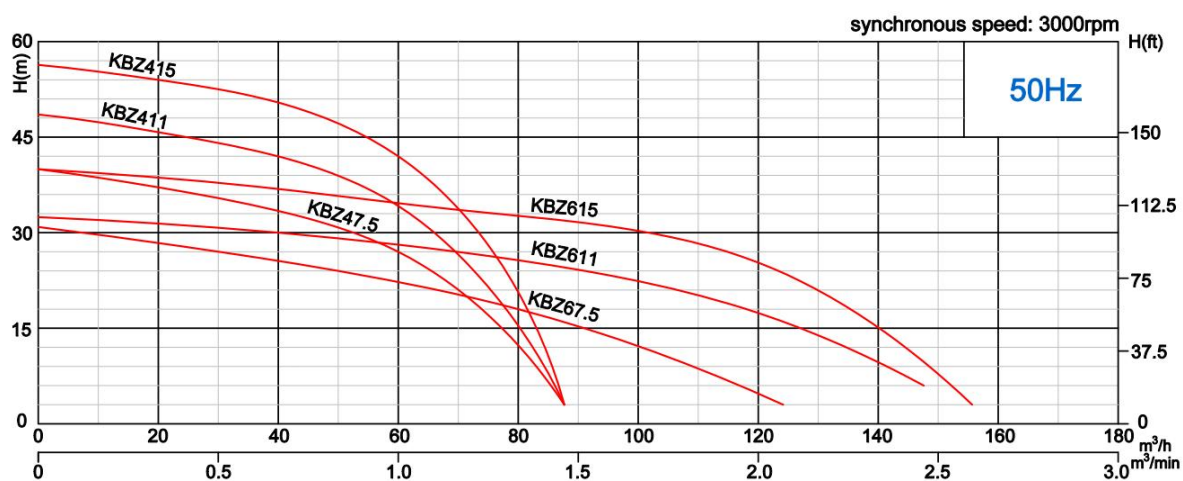
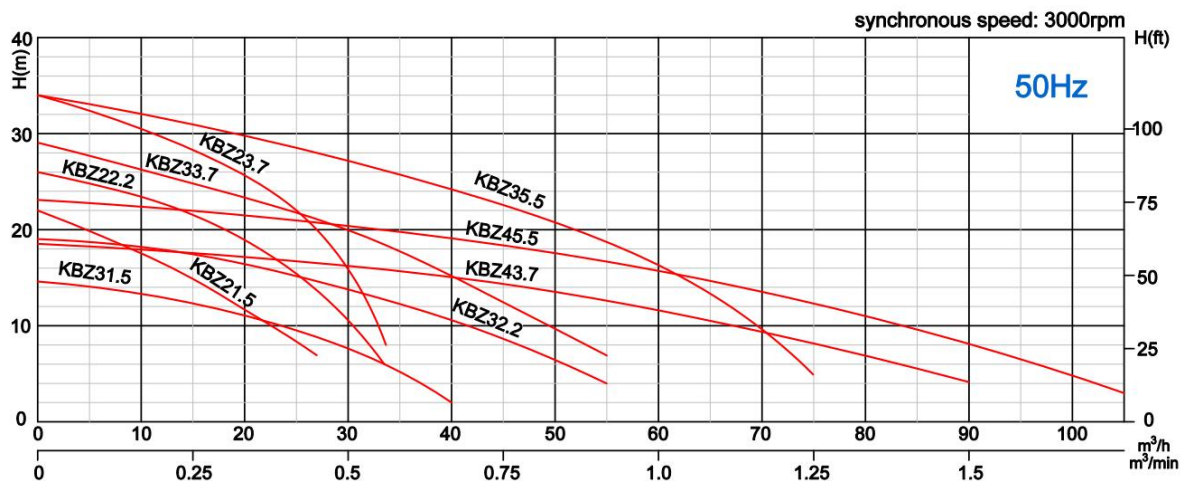
Materials of components

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

Dimensions & weights

Model (50/60Hz)	d mm	A mm	A1 mm	B mm	D mm	H mm	W1 mm	N.W Kg	G.W Kg	Packing dimension mm
KBZ21.5	50	235	173	543	216	503	120	36	40	620x265x275
KBZ31.5	80	235	173	543	216	503	120	36	40	620x265x275
KBZ22.2	50	235	173	543	216	503	120	39	43	620x265x275
KBZ32.2	80	235	173	543	216	503	120	39	43	620x265x275
KBZ23.7	50	293	216	628	252	629	150	63	68	710x320x295
KBZ33.7	80	293	216	628	252	629	150	63	68	710x320x295
KBZ43.7	100	293	216	628	252	629	150	63	68	710x320x295
KBZ35.5	80	329	240	671	300	590	150	77	84	750x350x335
KBZ45.5	100	329	240	671	300	590	150	77	84	750x350x335
KBZ47.5	100	330	240	750	314	676	190	106	116	835x365x385
KBZ67.5	150	330	240	790	314	676	190	108	119	865x365x385
KBZ411	100	373	255	807	350	695	190	136	148	855x415x435
KBZ611	150	373	255	807	350	695	190	139	150	855x415x435
KBZ415	100	373	255	842	350	755	190	144	158	905x415x435
KBZ615	150	373	255	842	350	755	190	146	160	905x415x435

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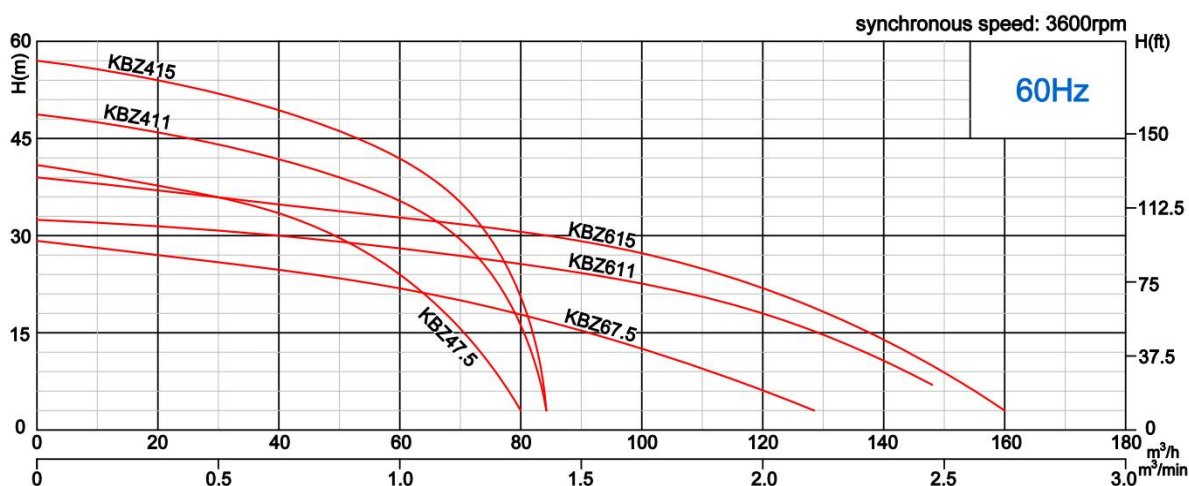
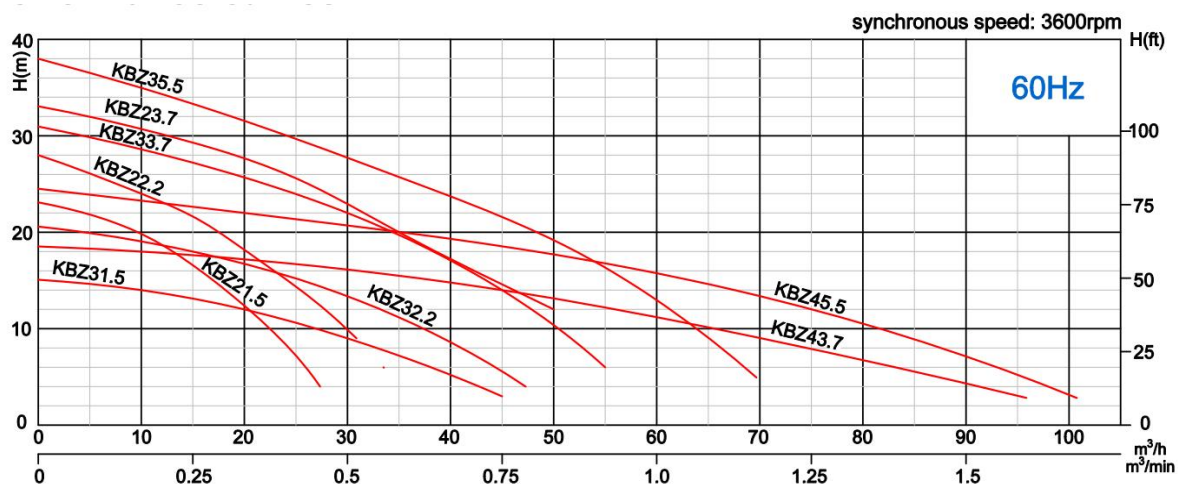


Performance table

Model (50Hz)	Outlet	Motor power		Rated current (400V) A	Rated capacity		Rated head m	Max capacity		Max head m	Impeller passage mm
	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	1.00	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	1.00	16	105	1.75	23	8.5
KBZ47.5	100	7.5	10	15.0	48	0.80	30	84	1.40	40	11.5
KBZ67.5	150	7.5	10	15.0	90	1.60	15	124.8	2.08	31	19.5
KBZ411	100	11	15	22.0	60	1.00	35	84	1.40	48.5	11.5
KBZ611	150	11	15	22.0	102	1.70	22	147	2.45	32	19.5
KBZ415	100	15	20	29.5	60	1.00	42	84	1.40	56	11.5
KBZ615	150	15	20	29.5	102	1.70	30	156	2.60	40	19.5

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Performance curves



Performance table

Model (60Hz)	Outlet	Motor power		Rated current (380V)	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
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	36	0.60	13	47	0.78	20.5	8.5
KBZ23.7	50	3.7	5	8.0	12	0.20	30	50	0.83	33	8.5
KBZ33.7	80	3.7	5	8.0	30	0.50	22	55	0.92	31	8.5
KBZ43.7	100	3.7	5	8.0	60	1.00	11.5	96	1.60	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	1.00	16	102	1.70	24.4	8.5
KBZ47.5	100	7.5	10	15.4	48	0.80	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	1.00	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	30.0	60	1.00	42	84	1.40	57	11.5
KBZ615	150	15	20	30.0	102	1.70	30	160	2.67	39	19.5