SDW

TECHNICAL CONSULTING
PTY LTD

SBZ SUBMERSIBLE
DRAINAGE PUMPS

PRODUCT CATALOGUE



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 economically by a top outlet.
Discharge 50mm(2")to 150mm(6"),motor 1.5kW(2HP) to 15kW (20HP).
Hermetically sealed motor equipped build-in thermal protection for the power below 15kW.





Specification

- Capacity:up to 160m³/h
- Head:up to 57 meters
- Power:1.5kW(2HP) to 15kW(20HP)
  Power supply:three phase 400V±10%，50Hz
  380V±10%，60Hz
- Insulation class:F
- Protection class:IP68
- Cable length:8m
- Water temperature:up to 40℃
- Max.water depth:25m

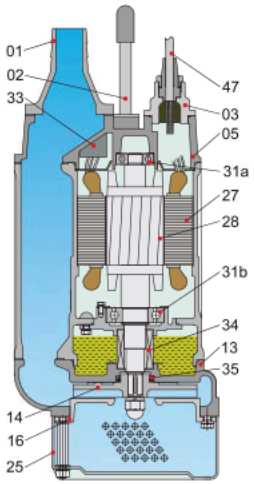
Application

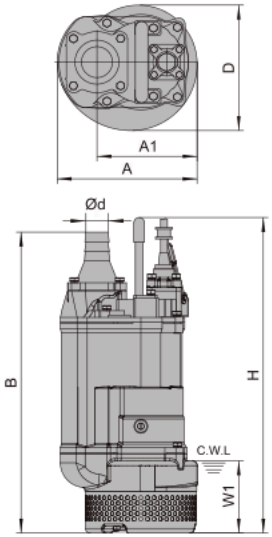
- Civel engineering
- Mines,quarries,coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Special features on request

- Other voltages
- The length of cable is optional

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W1:Continuous running water level

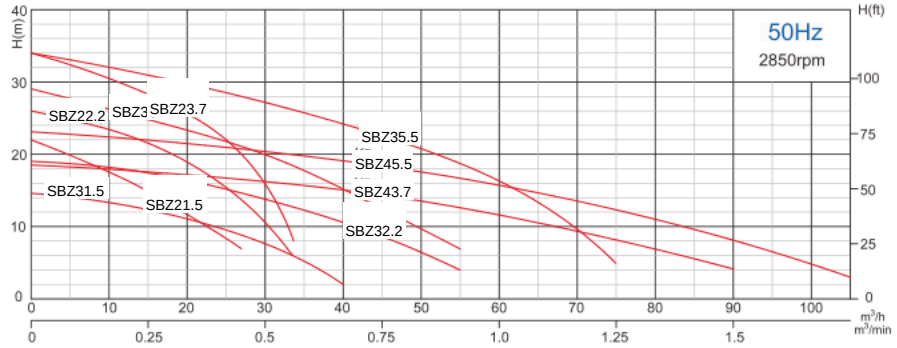
Material of construction

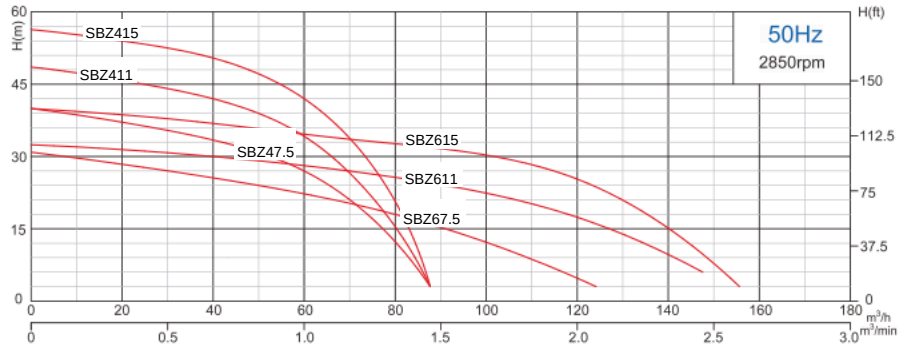
Item No.	Part name	Material	Item No.	Part name	Material
01	Hose coupling	Cast iron	28	Rotor	Shaft:AISI420SS
02	Handle	Rubber&steel	31a	Bearing	Ball bearing
05	Upper cover	Cast iron	31b	Bearing	Ball bearing
11	Motor body	Cast iron	33	Motor protector	
13	Pump body	Cast iron	34	Mechanical seal	Sic-Sic/Carbon-Sic(≤2.2kW)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

Dimensions & weights

Model (50/60Hz)	d	A	A1	B	D	H	W1	N.W	G.W	Packing dimension
	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
SBZ21.5	50	235	173	535	216	505	120	36	40	610x265x265
SBZ31.5	80	235	173	535	216	505	120	36	40	610x265x265
SBZ22.2	50	235	173	535	216	505	120	39	43	610x265x265
SBZ32.2	80	235	173	535	216	505	120	39	43	610x265x265
SBZ23.7	50	283	208	628	252	629	150	63	68	710x320x295
SBZ33.7	80	283	208	628	252	629	150	63	68	710x320x295
SBZ43.7	100	283	208	642	252	629	150	63	68	710x320x295
SBZ35.5	80	283	208	671	252	590	150	77	84	750x350x360
SBZ45.5	100	283	208	686	252	590	150	77	84	750x350x360
SBZ47.5	100	330	240	764	314	676	190	106	116	835x365x385
SBZ67.5	150	330	240	790	314	676	190	108	119	865x365x385
SBZ411	100	373	255	807	350	695	190	136	148	885x415x435
SBZ611	150	373	255	807	350	695	190	139	150	885x415x435
SBZ415	100	373	255	842	350	755	190	144	158	935x415x435
SBZ615	150	373	255	842	350	755	190	146	160	935x415x435

Performance curves



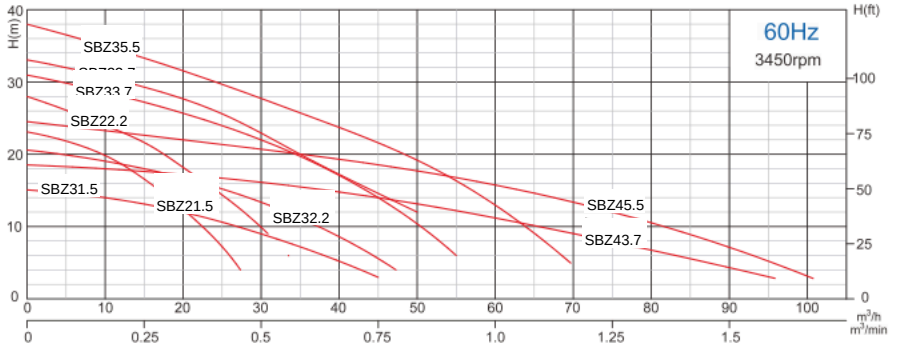


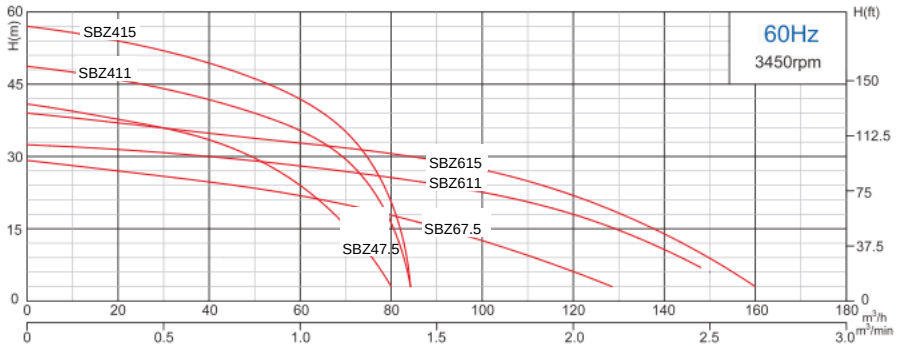
Performance table

Model (50Hz)	Outlet	Motor power		Rated current (400V)	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
SBZ21.5	50	1.5	2	3.5	15	0.25	15	27	0.45	22	8.5
SBZ31.5	80	1.5	2	3.5	30	0.50	8	40	0.67	14.5	8.5
SBZ22.2	50	2.2	3	5.0	18	0.30	20	33	0.55	26	8.5
SBZ32.2	80	2.2	3	5.0	36	0.60	11	55	0.92	19	8.5
SBZ23.7	50	3.7	5	7.7	12	0.20	30	33	0.55	34	8.5
SBZ33.7	80	3.7	5	7.7	30	0.50	20	55	0.92	29	8.5
SBZ43.7	100	3.7	5	7.7	60	1.0	11.5	90	1.50	18.5	8.5
SBZ35.5	80	5.5	7.5	11.4	36	0.60	25	75	1.25	34	8.5
SBZ45.5	100	5.5	7.5	11.4	60	1.0	16	105	1.75	23	8.5
SBZ47.5	100	7.5	10	15	48	0.80	30	84	1.40	40	11.5
SBZ67.5	150	7.5	10	15	90	1.60	15	124.8	2.08	31	19.5
SBZ411	100	11	15	22	60	1.0	35	84	1.40	48.5	11.5
SBZ611	150	11	15	22	102	1.70	22	147	2.45	32	19.5
SBZ415	100	15	20	29.5	60	1.0	42	84	1.40	56	11.5
SBZ615	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
SBZ21.5	50	1.5	2	3.5	15	0.25	16.5	27	0.45	23	8.5
SBZ31.5	80	1.5	2	3.5	30	0.50	9	45	0.75	15	8.5
SBZ22.2	50	2.2	3	5.1	18	0.30	20	31	0.52	28	8.5
SBZ32.2	80	2.2	3	5.1	30	0.60	13	47	0.78	20.5	8.5
SBZ23.7	50	3.7	5	8.0	12	0.20	30	50	0.83	33	8.5
SBZ33.7	80	3.7	5	8.0	30	0.50	22	55	0.92	31	8.5
SBZ43.7	100	3.7	5	8.0	60	1.0	11.5	96	1.60	18.5	8.5
SBZ35.5	80	5.5	7.5	11.6	36	0.60	25	69	1.15	38	8.5
SBZ45.5	100	5.5	7.5	11.6	60	1.0	16	102	1.70	24.4	8.5
SBZ47.5	100	7.5	10	15.4	48	0.80	30	80	1.33	41	11.5
SBZ67.5	150	7.5	10	15.4	90	1.60	15	127	2.12	31	19.5
SBZ411	100	11	15	22.5	60	1.0	35	84	1.40	48.5	11.5
SBZ611	150	11	15	22.5	102	1.70	22	147	2.45	32	19.5
SBZ415	100	15	20	30	60	1.0	42	84	1.40	57	11.5
SBZ615	150	15	20	30	102	1.70	27	160	2.67	39	19.5