

EBZ(E) SUBMERSIBLE DRAINAGE PUMP



The pump and motor body are made of rigid cast iron for long-lasting durability. High pressure mechanical seal increases maximum submersion depth. Semi-open impeller made of high chrome with a ductile iron wear plate. Discharge channel is cast as part of the motor housing, to assist with motor cooling. Top discharge saves space for easy installation.



Specification

- **Capacity:** up to 704 GPM
- **Head:** up to 187 FT
- **Power:** 1.5kW (2HP) to 15 kW (20HP)
- **Power Supply:** three phase 400V
±10%, 50Hz
460V
±10%, 60Hz
- **Insulation class:** F
- **Protection class:** IP68
- **Cable length:** 26 ft
- **Water temperature:** up to 104 °F
- **Max water depth:** 82 ft

Application

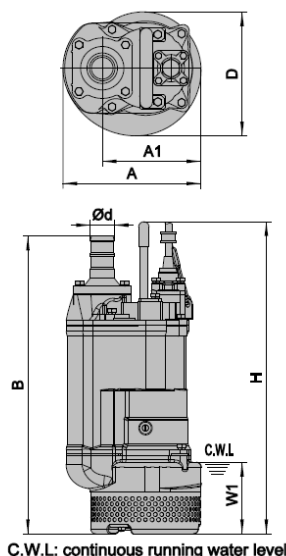
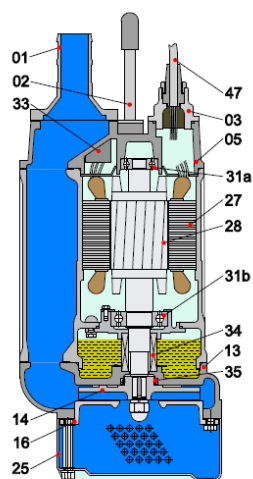
- **Civil engineering**
- **Mines, quarries, coal ore & slurries**
- **Sewage treatment plants**
- **General pumping purposes**

Special features on request

- **Other voltages**
- **Cable length is adjustable**



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Materials of components

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

Dimensions and Weights

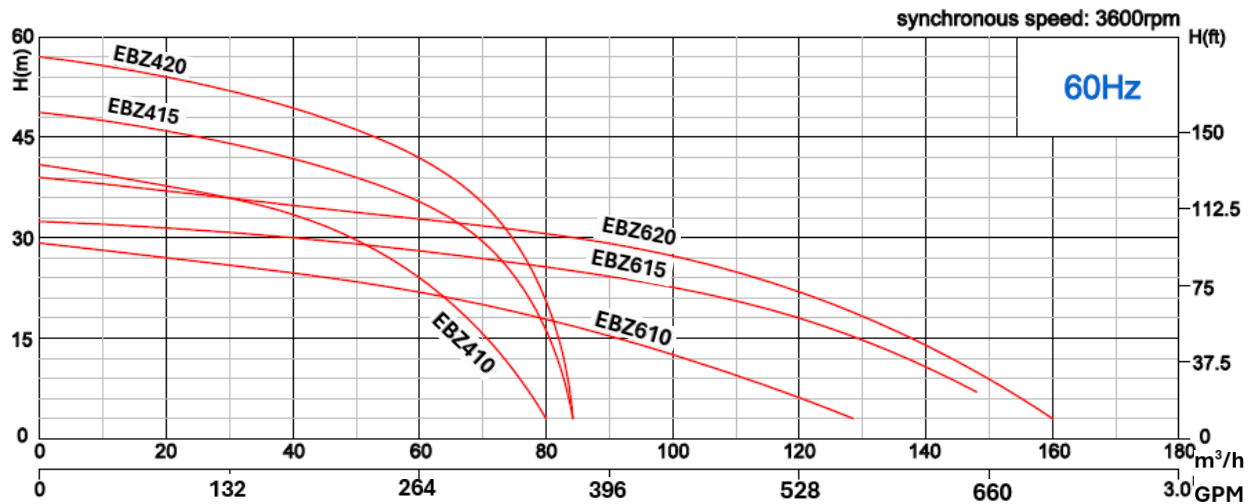
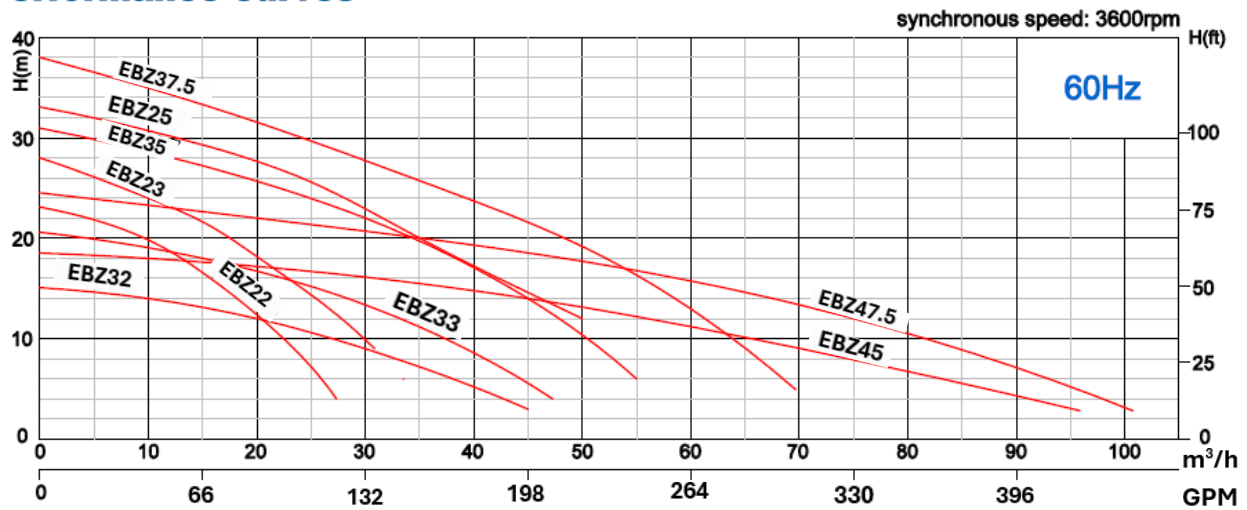
Model	d	A	A1	B	D	H	W1	N.W	G.W.	Packing dimensions mm
	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	
EBZ22	50	235	173	543	216	503	120	36	40	620x265x275
EBZ32	80	235	173	543	216	503	120	36	40	620x265x275
EBZ23	50	235	173	543	216	503	120	39	43	620x265x275
EBZ33	80	235	173	543	216	503	120	39	43	620x265x275
EBZ25	50	293	216	628	252	629	150	63	68	710x320x295
EBZ35	80	293	216	628	252	629	150	63	68	710x320x295
EBZ45	100	293	216	628	252	629	150	63	68	710x320x295
EBZ37.5	80	329	240	671	300	590	150	77	84	750x350x335
EBZ47.5	100	329	240	671	300	590	150	77	84	750x350x335
EBZ410	100	330	240	450	314	676	190	106	116	835x365x385
EBZ610	150	330	240	190	314	676	190	108	119	865x365x385
EBZ415	100	373	255	807	350	695	190	136	148	855x415x435
EBZ615	150	373	255	807	350	695	190	139	150	855x415x435
EBZ420	100	373	255	842	350	755	190	144	158	905x415x435
EBZ620	150	373	255	842	350	755	190	146	160	905x415x435



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Performance curves



Model	Outlet		Motor Power		Rated current (460) A	Rate capacity		Rated head		max capacity		max head m	Impeller passage mm
	mm	inch	kW	HP		m³/h	GPM	m	ft	m³/h	GPM		
EBZ22	50	2	1.5	2	2.9	15	66	16.5	54.1	27	118.8	23	8.5
EBZ32	80	3	1.5	2	2.9	30	132	9	29.5	45	198	15	8.5
EBZ23	50	2	2.2	3	4.2	18	79.2	20	65.6	31	136.4	28	8.5
EBZ33	80	3	2.2	3	4.2	30	132	13	42.6	47	206.8	20.5	8.5
EBZ25	50	2	3.7	5	6.6	12	52.8	30	98.4	50	220	33	8.5
EBZ35	80	3	3.7	5	6.6	30	132	22	72.2	55	242	31	8.5
EBZ45	100	4	3.7	5	6.6	60	264	11.5	37.7	96	422.4	18.5	8.5
EBZ37.5	80	3	5.5	7.5	9.6	36	158.4	25	82.0	69	303.6	38	8.5
EBZ47.5	100	4	5.5	7.5	9.6	60	264	16	52.5	102	448.8	24.4	8.5
EBZ410	100	4	7.5	10	12.7	48	211.2	30	98.4	80	352	41	11.5
EBZ610	150	6	7.5	10	12.7	90	396	15	49.2	127	558.8	31	19.5
EBZ415	100	4	11	15	18.6	60	264	35	114.8	81	356.4	48.5	11.5
EBZ615	150	6	11	15	18.6	102	448.8	22	72.2	147	646.8	32	19.5
EBZ420	100	4	15	20	24.8	60	264	42	137.8	84	369.6	57	11.5
EBZ620	150	6	15	20	24.8	102	448.8	27	88.6	160	704	39	19.5



EBZE: variant of EBZ with built in water sensor.

MAIN ADVANTAGES

- Protect against reverse phase, ensuring correct impeller rotation
- Protect against open phase or impeller jam
- Automatically stops the pump in event of overload or abnormal voltage and recovers in 5 min
- The pump stops at high temperature and restarts automatically after cooling to specified temperature.
- The height of the electric probe is adjustable to control pump operation
- The pump stops working within 60s after water level reaches below the probe. When the water level rises to reach the electric probe, pump starts operating again
- Rapid assessment of pump operation and malfunction diagnosis



SPECIFICATION

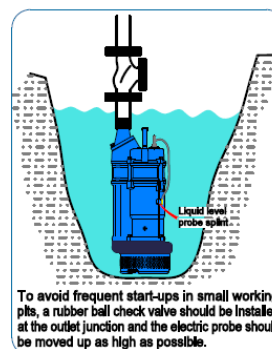
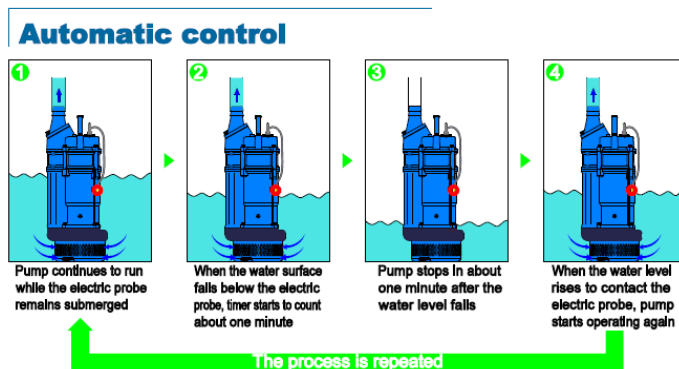
- Capacity: up to 462 GPM
- Head: up to 125 ft
- Power: 1.5kW (2HP) to 5.5 kW (7.5HP)
- Power Supply: three phase 400V \pm 10%, 50Hz
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- Insulation class: F
- Protection class: IP68
- Cable length: 26 ft
- Water temperature: up to 104 °F
- Max. water depth: 82 ft

APPLICATION

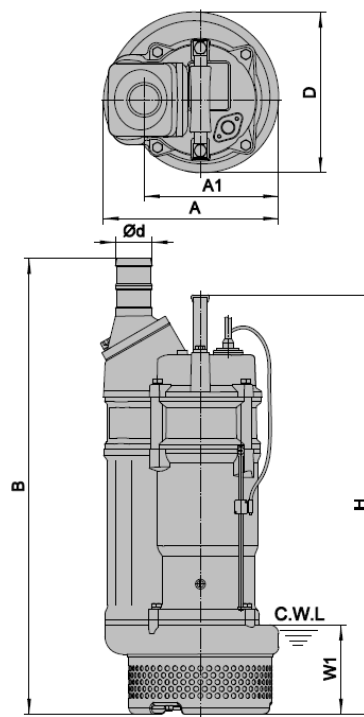
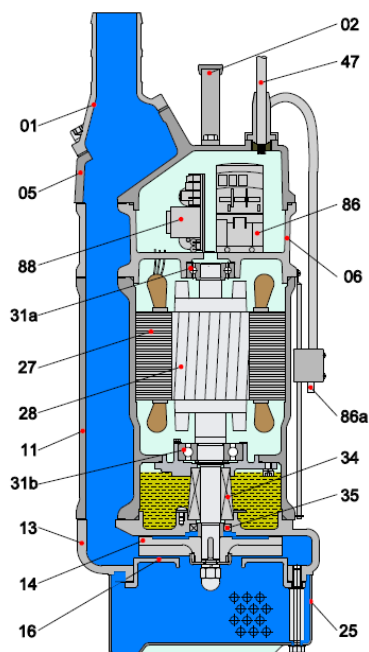
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SPECIAL FEATURES ON REQUEST

- Other voltages
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C.W.L: continuous running water level

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13	Pump body	Cast iron	47	Cable	
14	Impeller	High chrome alloy	86	AC Contactor	
16	Inlet plate	Ductile iron	86a	Water level sensor	
25	Strainer	Steel	88	Controller block	
27	Stator				

Dimensions & weights

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