

EBD(E) SUBMERSIBLE DRAINAGE PUMP



The agitator pump EBD series is a cast iron, heavy-duty slurry pump employing the EDZ 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 is easier for the pump to be placed in confined spaces.



Specification

- Capacity: up to 404 GPM
- Head: up to 105 FT
- Power: 1.5kW (2HP) to 5.5 kW (7.5HP)
- 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

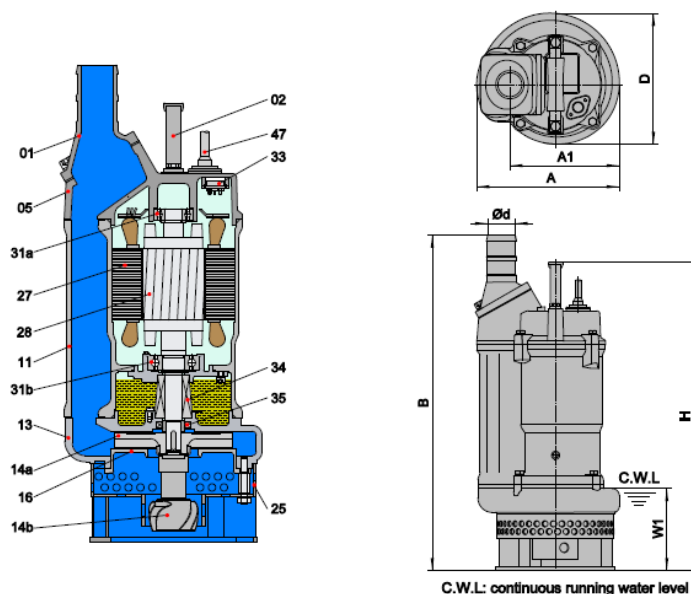
- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Special features on request

- Other voltages
- Cable length is adjustable



EBD(E) SUBMERSIBLE DRAINAGE PUMP



Materials of components

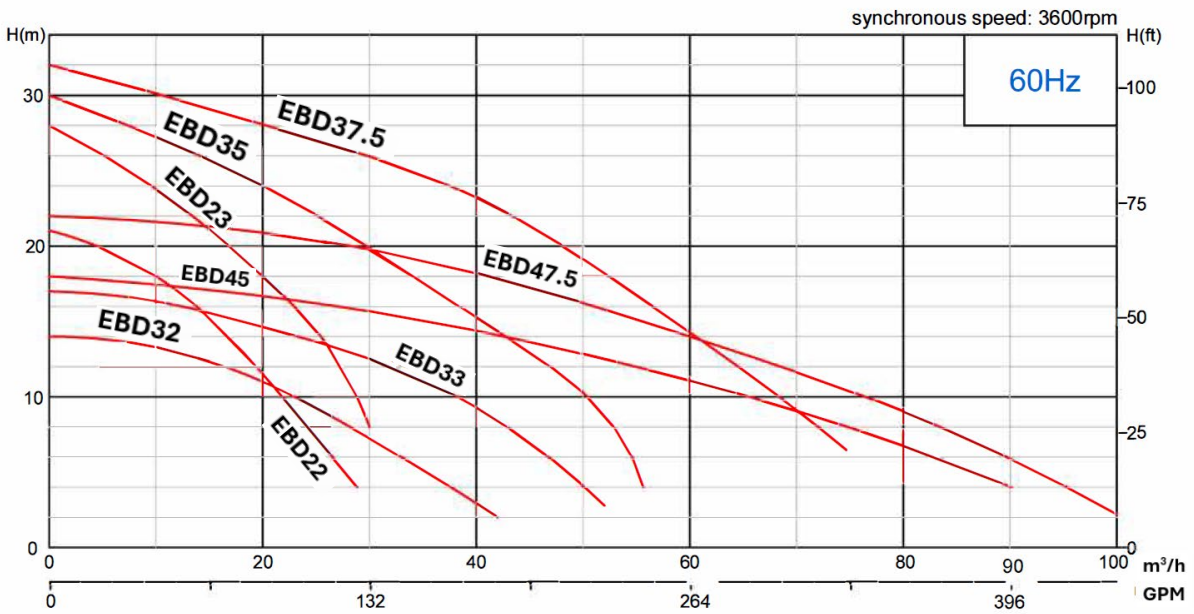
Item No.	Part Name	Material	Item No.	Part name	Material
1	Hose coupling	Cast iron	27	Stator	
2	Handle	Rubber&steel	28	Rotor	Shaft:AISI420SS
5	Upper cover	Cast iron	31a	Bearing	Ball bearing
11	Motor body	Cast iron	31b	Bearing	Ball bearing
13	Pump body	Cast iron	33	Motor protector	
14a	Impeller	High chrome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

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	240	196	568	216	522	135	37	41	640x265x275
EBZ32	80	240	204	576	216	522	135	37	41	640x265x275
EBZ23	50	240	196	568	216	522	135	40	44	640x265x275
EBZ33	80	240	204	576	216	522	135	40	44	640x265x275
EBZ35	80	293	240	650	252	642	165	64	69	725x320x295
EBZ45	100	293	249	663	252	642	165	65	70	725x320x295
EBZ37.5	80	329	259	712	300	606	165	78	85	790x350x335
EBZ47.5	100	329	268	725	300	606	165	79	86	790x350x335



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Model	Outlet		Motor Power		Rated current (460)	Rate capacity		Rated head		max capacity		max head		Impeller passage
	mm	inch	kW	HP		m³/h	GPM	m	ft	m³/h	GPM	m	mm	
EBD22	50	2	1.5	2	2.9	15	66	15	49.2	27	118.8	21	10	
EBD32	80	3	1.5	2	2.9	30	132	7	23.0	42	184.8	14	10	
EBD23	50	2	2.2	3	4.2	18	79.2	19	62.3	30	132	28	10	
EBD33	80	3	2.2	3	4.2	36	158.4	11	36.1	52	228.8	17	10	
EBD35	80	3	3.7	5	6.6	30	132	20	65.6	55	242	30	10	
EBD45	100	4	3.7	5	6.6	60	264	11	36.1	90	396	18	10	
EBD37.5	80	3	5.5	7.5	9.6	36	158.4	24	78.7	74	325.6	32	10	
EBD47.5	100	4	5.5	7.5	9.6	60	264	14	45.9	100	440	22	10	



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EBDE: variant of EBD 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

460V $\pm 10\%$, 60Hz

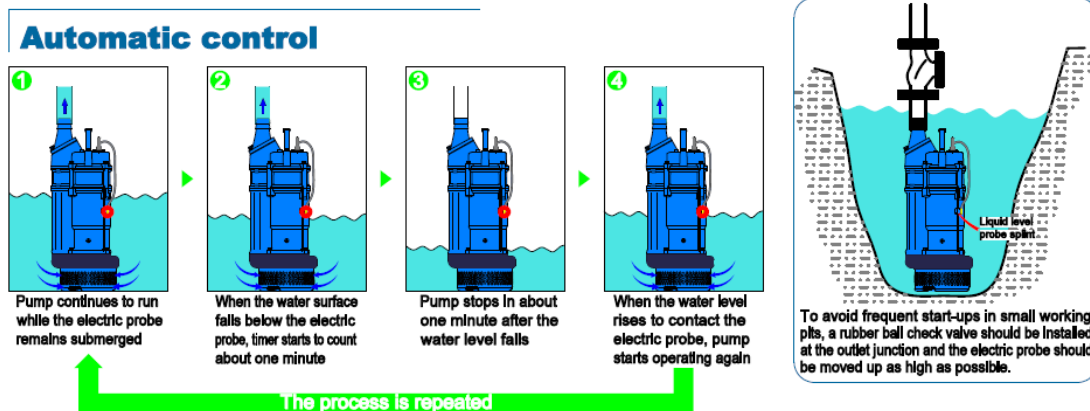
- Insulation class: F
- Protection class: IP68
- Cable length: 26 ft
- Water temperature: up to 104 °F
- Max. water depth: 82 ft

APPLICATION

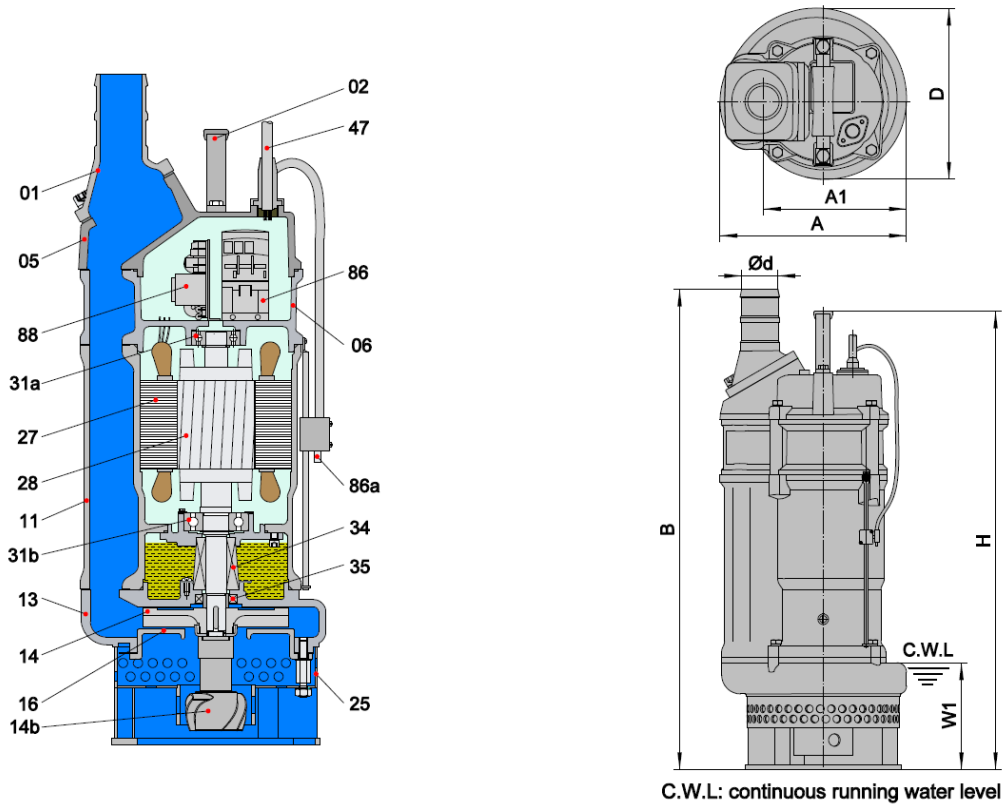
- Civil engineering
- Mines, quarries, coal ore & slurries
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- General pumping purposes

SPECIAL FEATURES ON REQUEST

- Other voltages
- Cable length 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	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
06	Upper support	Cast iron	34	Mechanical seal	SiC-SiC/Carbon-SiC (< 2.2kW) SiC-SiC/SiC-SiC (> 3.7kW)
11	Motor body	Cast iron	35	Oil seal	
13	Pump body	Cast iron	47	Cable	
14a	Impeller	High chrome alloy	86	AC Contactor	
14b	Agitator	High chrome alloy	86a	Water level sensor	
16	Inlet plate	Ductile iron	88	Controller block	
25	Strainer	Steel			
27	Stator				

DIMENSIONS AND WEIGHTS

Model	d	A	A1	B	D	H	W1	N.W	G.W.	Packing dimensions
	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	mm
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EBD23	50	240	196	640	216	594	135	46	50	710X265X275
EBD33	80	240	204	648	216	594	135	46	50	710X265X275
EBD35	80	293	240	729	252	721	165	72	77	805X320X295
EBD45	100	293	249	742	252	721	165	73	78	805X320X295
EBD37.5	80	329	259	782	300	676	165	86	93	825X355X375
EBD47.5	100	329	268	795	300	676	165	87	94	865X355X375

