

EKSS(M) STAINLESS STEEL SUBMERSIBLE DRAINAGE PUMP



Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and commercial buildings. The body of the motor and pump is made of stainless steel for highly corrosive applications. The high pressure mechanical seal greatly increase the submersion depth. The semi-open impeller is made of a high chrome alloy with a ductile iron wear to achieve increased wear life. The pump discharge channel is cast as part of the motor housing, which aids in effective motor cooling. Discharge sizes range from 50mm(2") to 150mm(6"), motor ranges from 0.25kW (0.35HP) to 15kW (20HP) . Hermetically sealed motor equipped with built-in thermal protection.



Specification

- Capacity: up to 660 GPM
- Head: up to 164 FT
- Power: 0.25kW (0.35HP) to 15 kW (20HP)
- Power Supply: Single phase 120V ±10%, 60Hz
Three phase 460V ±10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 26 ft (0.35-1HP)
49 ft (2-7.5HP)
26 ft (10-20HP)

- Water temperature: up to 104 °F
- Max depth: KSM 0.35-1HP: 33 ft
KS(M)1.5-20HP: 82 ft

Application

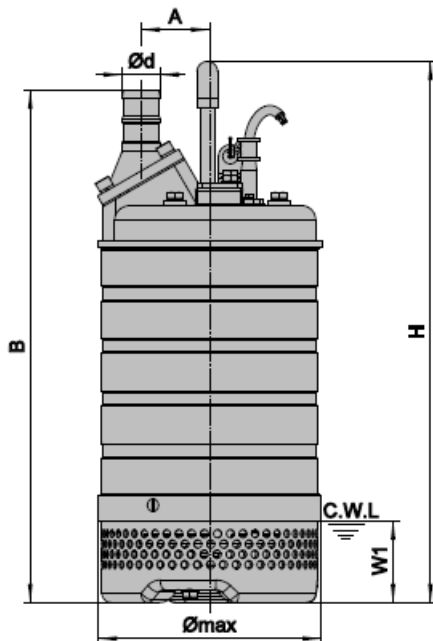
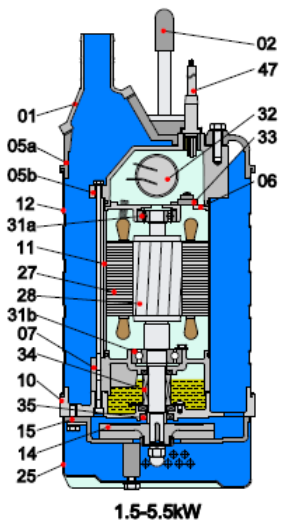
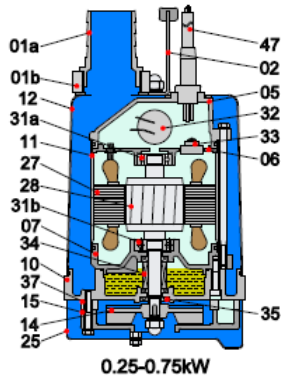
- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Special features on request

- Other voltages
- Cable length is adjustable



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C.W.L: continuous running water level

Materials of components

Item No.	Part name	Material
01a	Hose coupling	ABS
01b	Hose coupling	PA66
02	Handle	Rubber&AISI304SS
05	Upper cover	AISI304SS
06	Up-Bearing house	Aluminum die casting
07	Bearing house	AISI304SS
10	Seal house	AISI304SS
11	Motor casing	AISI304SS
12	Outer casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft:AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	
33	Motor protector	
34	Mechanical seal	SiC-Ceramic/Ceramic-Carbon
35	Oil seal	
37	Gasket	NBR
47	Cable	H07RN-F

Item No.	Part name	Material
01	Hose coupling	AISI304SS
02	Handle	Rubber&AISI304SS
05a	Upper cover	AISI304SS
05b	Upper cover	AISI304SS
06	Up-Bearing house	AISI304SS
07	Bearing house	AISI304SS
10	Seal bracket	AISI304SS
11	Motor casing	AISI304SS
12	Outer casing	AISI304SS
14	Impeller	AISI304SS
15	Diffuser	AISI304SS
25	Strainer	AISI304SS
27	Stator	
28	Rotor	Shaft:AISI304SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
32	Capacitor	(Single phase only)
33	Motor protector	
34	Mechanical seal	SiC-SiC/Carbon-SiC(<2.2kW) SiC-SiC/SiC-SiC(3.7-5.5kW)
35	Oil seal	
47	Cable	H07RN-F

Dimensions

Model	A	H	B	Ømax	W1	Model	A	H	B	Ømax	W1
EKSSM2.25(F)	42	347	342	184	50	EKSS43.7	86	514	613	300	76
EKSSM2.4(F)	42	347	342	184	50	EKSS35.5	72	554	624	300	76
EKSSM2.75(F)	42	367	362	184	50	EKSS45.5	86	554	653	300	76
EKSS21.5	68	558	538	240	87	EKSS23.7F	71	569	642	320	76
EKSS31.5	78	558	548	240	87	EKSS33.7F	72	569	639	320	76
EKSS22.2	68	558	538	240	87	EKSS43.7F	86	569	668	320	76
EKSS32.2	78	558	548	240	87	EKSS35.5F	72	609	679	320	76
EKSS21.5F	68	608	588	260	87	EKSS45.5F	86	609	708	320	76
EKSS31.5F	78	608	598	260	87	EKSS47.5	54	696	810	355	142
EKSS22.2F	68	608	588	260	87	EKSS67.5	54	696	810	355	142
EKSS32.2F	78	608	598	260	87	EKSS411	54	741	855	355	142
EKSS23.7	71	514	587	300	76	EKSS611	54	741	855	355	142
EKSS33.7	72	514	584	300	76						

B: the height from pump's bottom to outlet

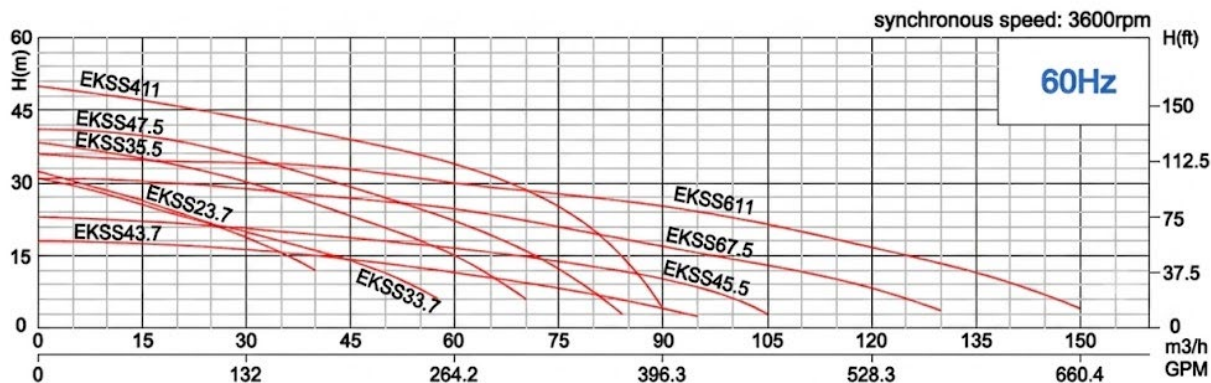
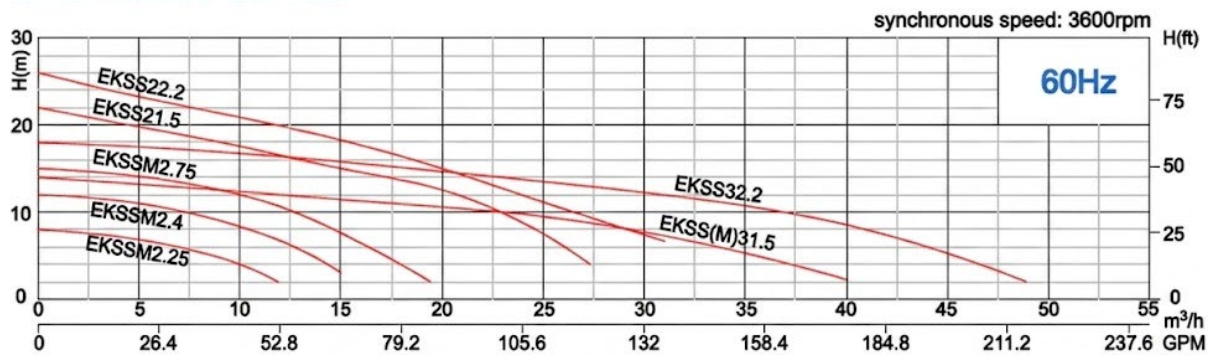
H: the height from pump's bottom to handle's top



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Performance curves



Model	Outlet		Motor Power		Rated current A	Rate capacity		Rated head		max capacity		max head m	Impeller passage mm	N.W kg	G.W kg	Packing dimension mm
	mm	inch	kW	HP		m³/h	GPM	m	ft	m³/h	GPM					
EKSSM2.25(F)	50	2	0.25	0.35	4.0	6	26.4	7	22.96	12	52.8	8	6	14	15	385x225x250
EKSSM2.4(F)	50	2	0.4	0.55	6.0	8	35.2	10	32.8	14.5	63.8	12	6	15	16	385x225x250
EKSSM2.75(F)	50	2	0.75	1	10.0	10	44	12	39.36	19.5	85.8	15	6	17	18	405x225x250
EKSS21.5	50	2	1.5	2	2.9	15	66	15	49.2	27	118.8	22	8.5	37	41	620x270x315
EKSS21.5F	50	2	1.5	2	2.9	15	66	15	49.2	27	118.8	22	8.5	39	43	690x270x315
EKSS31.5	80	3	1.5	2	2.9	27	118.8	9	29.52	42	184.8	14	8.5	37	41	620x270x315
EKSS31.5F	80	3	1.5	2	2.9	27	118.8	9	29.52	42	184.8	14	8.5	39	43	690x270x315
EKSS22.2	50	2	2.2	3	4.2	20	88	15	49.2	31	136.4	26	8.5	40	44	620x270x315
EKSS22.2F	50	2	2.2	3	4.2	20	88	15	49.2	31	136.4	26	8.5	42	46	690x270x315
EKSS32.2	80	3	2.2	3	4.2	30	132	12	39.36	47	206.8	19	8.5	40	44	620x270x315
EKSS32.2F	80	3	2.2	3	4.2	30	132	12	39.36	47	206.8	19	8.5	42	46	690x270x315
EKSS23.7	50	2	3.7	5	6.6	18	79.2	25	82	42	184.8	32	8.5	58	64	670x320x345
EKSS23.7F	50	2	3.7	5	6.6	18	79.2	25	82	42	184.8	32	8.5	60	66	730x320x345
EKSS33.7	80	3	3.7	5	6.6	35	154	18.5	60.68	57	250.8	31	8.5	58	64	670x320x345
EKSS33.7F	80	3	3.7	5	6.6	35	154	18.5	60.68	57	250.8	31	8.5	60	66	730x320x345
EKSS43.7	100	4	3.7	5	6.6	60	264	12	39.36	95	418	18	8.5	59	65	670x320x345
EKSS43.7F	100	4	3.7	5	6.6	60	264	12	39.36	95	418	18	8.5	61	67	730x320x345
EKSS35.5	80	3	5.5	7.5	9.6	45	198	22	72.16	69	303.6	38	8.5	66	72	710x320x355
EKSS35.5F	80	3	5.5	7.5	9.6	45	198	22	72.16	69	303.6	38	8.5	68	74	770x320x355
EKSS45.5	100	4	5.5	7.5	9.6	60	264	16	52.48	105	462	23	8.5	67	73	710x320x355
EKSS45.5F	100	4	5.5	7.5	9.6	60	264	16	52.48	105	462	23	8.5	69	75	770x320x355
EKSS47.5	100	4	7.5	10	12.7	60	264	22	72.16	84	369.6	40	11.5	108	120	894x394x455
EKSS67.5	150	6	7.5	10	12.7	80	352	18.5	60.68	130	572	32	19.5	110	122	894x394x455
EKSS411	100	4	11	15	18.6	60	264	34	111.52	89	391.6	50	11.5	123	135	954x394x455
EKSS611	150	6	11	15	18.6	90	396	25	82	150	660	36	19.5	125	137	954x394x455

• EKSS: three phase; EKSSM: single phase; EKSSM...F: with float switch

