

# EKS(M) SUBMERSIBLE DRAINAGE PUMP



Compact design, high performance and exceptional durability for handling abrasive liquid, widely used in general construction and commercial buildings. The motor body and pump body are made of rigid cast iron or stainless steel for long lasting durability. 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 740 GPM**
- **Head: up to 187 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**

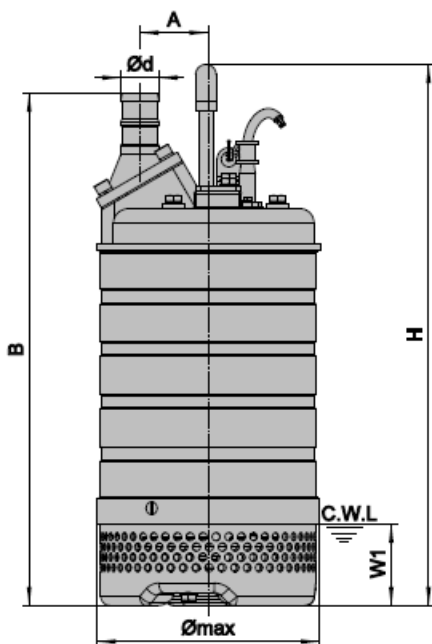
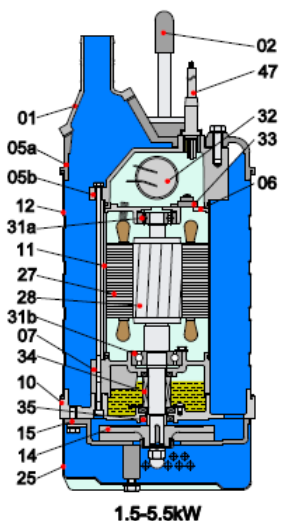
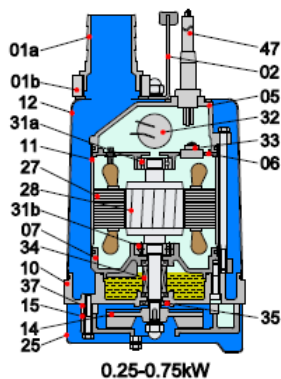
## Application

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

## Special features on request

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





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	Cast iron
06	Up-Bearing house	Aluminum die casting
07	Bearing house	Cast iron
10	Seal house	Cast iron
11	Motor casing	Stainless steel
12	Outer casing	AISI304SS
14	Impeller	Ductile iron
15	Diffuser	Cast iron
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

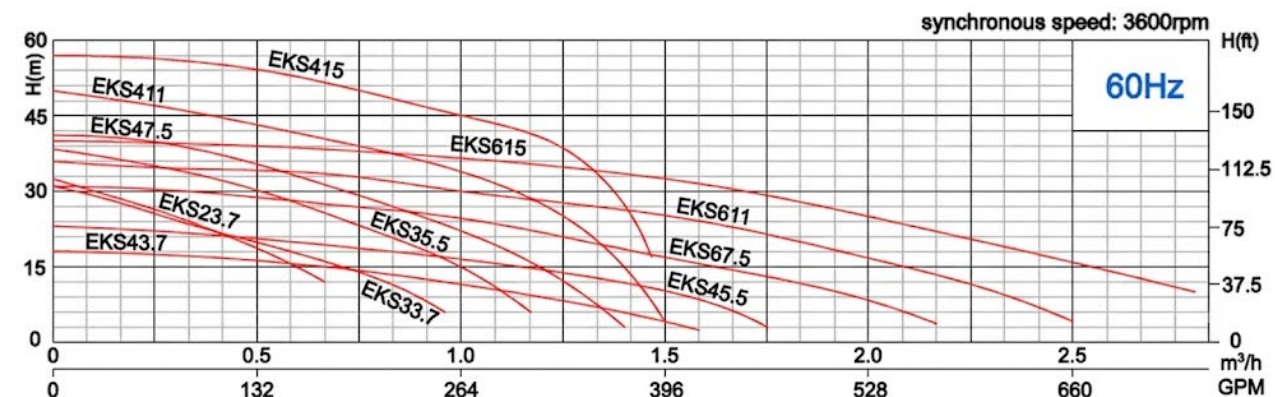
Item No.	Part name	Material
01	Hose coupling	Cast iron
02	Handle	Rubber&steel
05a	Upper cover	Cast iron
05b	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
10	Seal bracket	Cast iron
11	Motor casing	Stainless steel
12	Outer casing	Stainless steel
14	Impeller	High chrome alloy
15	Diffuser	Ductile iron
25	Strainer	Steel
27	Stator	
28	Rotor	Shaft:AISI420SS
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
EKSM2.25(F)	42	347	342	184	50	EKS43.7	88	514	613	300	76
EKSM2.4(F)	42	347	342	184	50	EKS35.5	80	554	640	300	76
EKSM2.75(F)	42	367	362	184	50	EKS45.5	88	554	653	300	76
EKSM21.5(F)	75	582	569	240	87	EKS23.7F	74	569	646	320	76
EKSM31.5(F)	83	582	577	240	87	EKS33.7F	80	569	655	320	76
EKS21.5	75	563	550	240	87	EKS43.7F	88	569	668	320	76
EKS31.5	83	563	558	240	87	EKS35.5F	80	609	695	320	76
EKS22.2	75	563	550	240	87	EKS45.5F	88	609	708	320	76
EKS32.2	83	563	558	240	87	EKS47.5	54	696	810	355	142
EKS21.5F	75	613	600	260	87	EKS67.5	54	696	810	355	142
EKS31.5F	83	613	608	260	87	EKS411	54	741	855	355	142
EKS22.2F	75	613	600	260	87	EKS611	54	741	855	355	142
EKS32.2F	83	613	608	260	87	EKS415	54	768	882	355	142
EKS23.7	74	514	591	300	76	EKS615	54	768	882	355	142
EKS33.7	80	514	600	300	76						

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

# EKS(M) SUBMERSIBLE DRAINAGE PUMP



Model	Outlet		Motor Power		Rated current (460)	Rate capacity		Rated head	Rated head	max capacity		Impeller passage	N.W.	G.W.	CKING DIMENSIO	
	mm	inch	kW	HP		m³/h	GPM			m	ft					m³/h
EKSM2.25(F)	50	2	0.25	0.35	2	6	26.4	7.0	23.0	12.0	52.8	8.0	6.0	14.0	15.0	385x225x250
EKSM2.4(F)	50	2	0.4	0.55	3	8	35.2	10.0	32.8	14.5	63.8	12.0	6.0	15.0	16.0	385x225x250
EKSM2.75(F)	50	2	0.75	1	5	10	44	12.0	39.4	19.5	85.8	15.0	6.0	17.0	18.0	405x225x250
EKSM2.1.5(F)	50	2	1.5	2	10	15	66	15.0	49.2	27.0	118.8	22.0	8.5	37.0	41.0	660x270x315
EKSM3.1.5(F)	80	3	1.5	2	10	27	118.8	9.0	29.5	42.0	184.8	14.0	8.5	37.0	41.0	660x270x315
EKS21.5	50	2	1.5	2	3.5	15	66	15.0	49.2	27.0	118.8	22.0	8.5	37.0	41.0	620x270x315
EKS21.5F	50	2	1.5	2	3.5	15	66	15.0	49.2	27.0	118.8	22.0	8.5	39.0	43.0	690x270x315
EKS31.5	80	3	1.5	2	3.5	27	118.8	9.0	29.5	42.0	184.8	14.0	8.5	37.0	41.0	620x270x315
EKS31.5F	80	3	1.5	2	3.5	27	118.8	9.0	29.5	42.0	184.8	14.0	8.5	39.0	43.0	690x270x315
EKS22.2	50	2	2.2	3	5.1	20	88	15.0	49.2	31.0	136.4	26.0	8.5	40.0	44.0	620x270x315
EKS22.2F	50	2	2.2	3	5.1	20	88	15.0	49.2	31.0	136.4	26.0	8.5	40.0	46.0	690x270x315
EKS32.2	80	3	2.2	3	5.1	30	132	12.0	39.4	47.0	206.8	19.0	8.5	40.0	44.0	620x270x315
EKS32.2F	80	3	2.2	3	5.1	30	132	12.0	39.4	47.0	206.8	19.0	8.5	42.0	46.0	690x270x315
EKS23.7	50	2	3.7	5	8	18	79.2	25.0	82.0	42.0	184.8	32.0	8.5	58.0	64.0	670x320x345
EKS23.7F	50	2	3.7	5	8	18	79.2	25.0	82.0	42.0	184.8	32.0	8.5	60.0	66.0	730x320x345
EKS33.7	80	3	3.7	5	8	35	154	18.5	60.7	57.0	250.8	31.0	8.5	58.0	64.0	670x320x345
EKS33.7F	80	3	3.7	5	8	35	154	18.5	60.7	57.0	250.8	31.0	8.5	60.0	66.0	620x320x345
EKS43.7	100	4	3.7	5	8	60	264	12.0	39.4	95.0	418.0	18.0	8.5	59.0	65.0	670x320x345
EKS43.7F	100	4	3.7	5	8	60	264	12.0	39.4	95.0	418.0	18.0	8.5	61.0	67.0	730x320x345
EKS35.5	80	3	5.5	7.5	11.6	45	198	22.0	72.2	69.0	303.6	38.0	8.5	66.0	72.0	710x320x355
EKS35.5F	80	3	5.5	7.5	11.6	45	198	22.0	72.2	69.0	303.6	38.0	8.5	68.0	74.0	770x320x355
EKS45.5	100	4	5.5	7.5	11.6	60	264	16.0	52.5	105.0	462.0	23.0	8.5	67.0	73.0	710x320x355
EKS45.5F	100	4	5.5	7.5	11.6	60	264	16.0	52.5	105.0	462.0	23.0	8.5	69.0	75.0	770x320x355
EKS67.5	100	4	7.5	10	15.4	60	264	22.0	72.2	84.0	369.6	40.0	11.5	108.0	120.0	894x394x455
EKS67.5	150	6	7.5	10	15.4	80	352	18.5	60.7	130.0	572.0	32.0	19.5	110.0	122.0	894x394x455
EKS411	100	4	11	15	22.5	60	264	34.0	111.5	89.0	391.6	50.0	11.5	123.0	135.0	924x394x455
EKS611	150	6	11	15	22.5	90	396	25.0	82.0	150.0	660.0	36.0	19.5	125.0	137.0	924x394x455
EKS415	100	4	15	20	30	60	264	45.0	147.6	86.4	380.2	57.0	11.5	145.0	157.0	965x395x455
EKS615	150	6	15	20	30	102	448.8	30.0	98.4	168.0	739.2	40.0	19.5	146.0	158.0	965x395x455

• K3: three phase; KSM: single phase; KSM...F: with float switch

