

Medium and Heavy Sewage Pumps - SM & SH Series

Cross Sectional Drawing

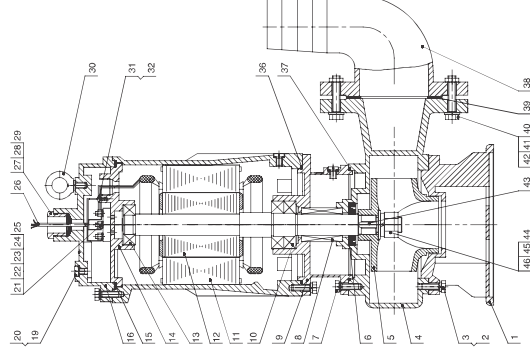


Specifications

Pump Type	Medium Sewage - SM Series	Heavy Sewage - SH Series
Power Range	2.2kW - 5.5 kW	5.5 kW - 15 kW
Speed	2900 rpm	2900 rpm
Version	380 ~ 415V, 3Ph, 50 Hz, AC Supply	380 ~ 415V, 3Ph, 50 Hz, AC Supply
Degree of Protection	IP 68	IP 68
Insulation Class	F	F
Impeller Type	Closed Double Channel	Closed Double Channel
Duty	S1	S1
Direction of Rotation	Clockwise viewed from driving end	Clockwise viewed from driving end
Max. Immersion Depth	5m	5m
Max. Liquid temperature	40°C	40°C
Max. Ambient temperature	40°C	40°C
Permissible pH value	6 - 10	6 - 10
Max. Solid Handling Capacity	upto 35 mm	upto 55 mm
Pump Outlet Size	2", 2½", 3", 4"	2½", 3", 4", 6", 8" & 10"

Materials of Construction

Pump Name	Material
Slator Housing	Cast Iron
Cable	H07RN-LF
Rotor Shaft	SS 420
Bearing Housing	Cast Iron
Pump Casing	Cast Iron
Mechanical Seal	Hard Alloy vs Sillicon
Impeller	Cast Iron
Bracket Casing	Cast Iron
"O" Ring	NBR
Oil Seal	NBR



Performance Table - SM Series

Model	Power - P2		Input Power-P1 (kW)	Outlet size in inches	Solid Passage (mm)	H max in m	Flow (m³/h)	Duty Point Head (m)	F.L. Current (A)	Eff. %	Weight (kg)
	kW	HP									
SM+1E-22DT	2.2	3	3	2	15	24	15	19.5	4.7	38	36
	SM+1E-22ET	2.2	3	2½	25	20	25	13.5	4.7	53	36
SM+1E-22FT	2.2	3	3	2	25	14.5	40	9	4.7	45	38
	SM+1E-30DT	3	4	4	20	31	15	27	6.4	37.5	50
SM+1E-30ET	3	4	4	2½	25	27.5	25	19.5	6.4	45	51
	SM+1E-30FT	3	4	4	30	20.5	40	13	6.4	52	57
SM+1E-30GT	3	4	4	3	30	13.5	50	7	6.4	31	62
SM+1E-40DT	4	5.5	5	2	15	46.5	12.5	40	8.2	30.5	68
	SM+1E-40ET	4	5.5	2½	25	38	25	28.5	8.2	39	68
SM+1E-40FT	4	5.5	5	3	30	31	30	25	8.2	47	68
	SM+1E-40GT	4	5.5	5	4	35	19.5	50	11.5	8.2	41
SM+1E-55DT	5.5	7.5	7	2	20	53	12.5	46.5	11	37	83
	SM+1E-55ET	5.5	7.5	7	2½	25	44	25	36	11	50
SM+1E-55FT	5.5	7.5	7	3	30	33	30	27	11	48	85
	SM+1E-55GT	5.5	7.5	7	4	35	28	65	17	11	46

*All Sewage pump models can be supplied along with guide rail system on request.

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Performance Table - SH Series

2000 RPM

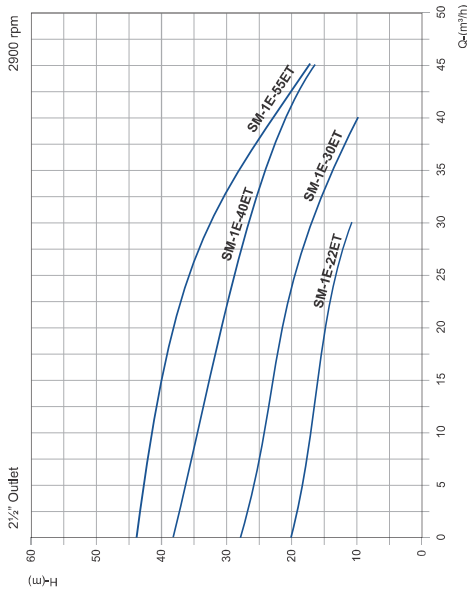
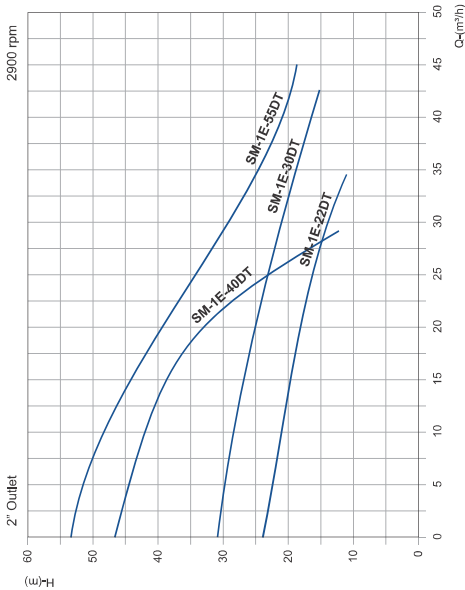
Model	Power-P2		Input Power-P1 (kW)	Outlet size in inches	Solid Passage (mm)	H max in m	Duty Point		F.L. Current (A)	Eff. %	Weight (kg)
	kW	HP					Flow (m³/h)	Head (m)			
SH-1E-55IT	5.5	7.5	7	6	40	16	100	9.5	11	45.6	-
SH-1E-75ET	7.5	10	9.5	2½	20	42.5	30	36.5	15	41.5	138
SH-1E-75FT	7.5	10	9.5	3	30	32	65	23	15	61	138
SH-1E-75GT	7.5	10	9.5	4	30	28	45	21.5	15	42	129
SH-1E-75IT	7.5	10	9.5	6	40	22.5	100	13.5	15	50	130
SH-1E-110ET	11	15	14	2½	25	56.5	35	49	22	41	230
SH-1E-150ET	15	20	18.5	2½	25	62.5	35	54.5	29	44	250

1450 RPM

Model	Power-P2		Input Power-P1 (kW)	Outlet size in inches	Solid Passage (mm)	H max in m	Duty Point		F.L. Current (A)	Eff. %	Weight (kg)
	kW	HP					Flow (m³/h)	Head (m)			
SH-1E-75GT/4	7.5	10	9.5	4	35	21	80	18.5	15	54	126
SH-1E-78IT/4	7.5	10	9.5	6	35	16.5	100	10	15	38.5	160
SH-1E-110GT/4	11	15	13.8	4	35	28.5	100	23.5	22	72.6	230
SH-1E-110IT/4	11	15	13.8	6	45	21	130	18	22	70	250
SH-1E-150GT/4	15	20	18.5	4	35	39	100	30	29	57	260
SH-1E-150IT/4	15	20	18.5	6	45	24.5	180	18	29	64.8	272
SH-1E-150JT/4	15	20	18.5	8	45	15.5	250	9.5	29	65	271
SH-1E-185GT/4	18.5	25	22.5	4	35	43	100	34	36	49	305
SH-1E-185IT/4	18.5	25	22.5	6	35	27.5	180	24	36	68.72	323
SH-1E-185JT/4	18.5	25	22.5	8	55	27.5	250	18.5	36	66.5	349
SH-1E-220IT/4	22	30	26	6	45	33	180	27	42	66.23	360
SH-1E-220JT/4	22	30	26	8	50	33.5	350	17.5	42	59.73	364
SH-1E-300IT/4	30	40	36	6	40	36.5	180	28	57	59	370
SH-1E-300JT/4	30	40	36	8	50	36.5	250	26.5	57	65	380
SH-1E-300KT/4	30	40	36	10	50	16	600	9	57	62.33	600
SH-1E-370IT/4	37	50	43	6	40	42.5	200	31	70	63	650
SH-1E-370JT/4	37	50	43	8	45	39	350	27	70	82	509
SH-1E-370KT/4	37	50	45	10	55	23	600	12.5	70	65	588

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Performance Curves - SM Series



Note : Performance curve are as per specific gravity and viscosity of water.