SUBMITTAL DATA SHEET

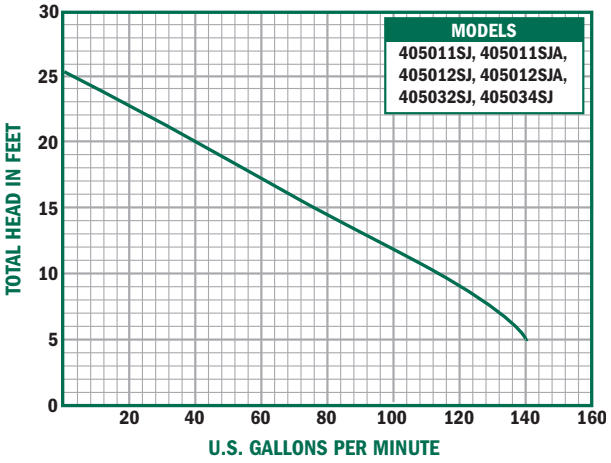
Waste Water

Effluent | Sewage Ejectors | Grinders

Sewage Ejector - 1/2 HP



Rugged, cast iron housing for residential and light commerical wastewater applications. Stainless steel fasteners and motor shaft, also available with or without piggyback float switch.

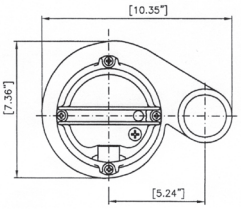


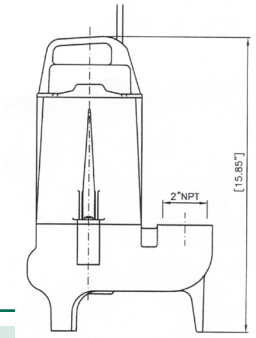
Materials of Construction & Motor Specifications

Motor Housing	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
External Hardware	304 Stainless Steel
O-ring	Buna-N
Motor Shaft	420 Stainless
Oil	Non-toxic white mineral oil (Marcol 52)
Upper Bearing	Single row ball bearing
Lower Bearing	Single row ball bearing
Lower Shaft Seal	Spring loaded rotating carbon face w/ stationary ceramic face
Impeller	Polybutylene Terephthalate (PBT) 30% glass fiber, Vortex
Motor Design	NEMA design B, squirrel cage induction, oil filled (non toxic)
Motor Type	Enclosed submersible
Insulation Class	Class B, rated at 248° F(120° C)
Motor Protection	Integral Bi-Metallic current sensing switch providing over temperature shut down
Service Factor	1.10
Voltage Tolerance	± 10% from nominal

Motor Data, 60 Hz

Model Number	Phase	Rated Output Power	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/ Speed (RPM)
405011SJ	1	0.5	115	10.6	21.4	E	0.87	59	4/1750
405011SJA	1	0.5	115	10.6	21.4	E	0.87	59	4/1750
405012SJ	1	0.5	230	5.3	10.5	E	0.87	59	4/1750
405012SJA	1	0.5	230	5.3	10.5	E	0.87	59	4/1750
405032SJ	3	0.5	208-230	3.5-3.2	22.4-20.3	S	0.87	59	4/1750
405034SJ	3	0.5	460	6.6	10.1	S	0.87	59	4/1750





Sewage Ejector & Cable Specifications

Model Number	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included	Outer Jacket
405011SJ	115	1/2	1	2"	60	1750	2" Vert NPT	37	15	N	Thermoplastic elastomer
405011SJA	115	1/2	1	2"	60	1750	2" Vert NPT	39	15	Y	Thermoplastic elastomer
405012SJ	230	1/2	1	2"	60	1750	2" Vert NPT	37	15	N	Thermoplastic elastomer
405012SJA	230	1/2	1	2"	60	1750	2" Vert NPT	39	15	Y	Thermoplastic elastomer
405032SJ	230	1/2	3	2"	60	1750	2" Vert NPT	78	15	N	Thermoplastic elastomer
405034SJ	460	1/2	3	2"	60	1750	2" Vert NPT	78	15	N	Thermoplastic elastomer

- Power Cable - 16/3 SJTOOW or equiv. w/ 3 prong plug
- Maximum submergence (feet) = 30
- Maximum temp. of pumped fluid = 104° F(40°C) continuous, =122°F (50°C) intermittent

SUBMITTAL INFORMATION

- High torque capacitor start motors
- Upper & lower ball bearings
- 2" NPT vertical discharge, vortex impellers
- Oil-filled motors (non-toxic oil)
- Integrated clip for float switch cable

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.

EST. 1856 McDonald

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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by: