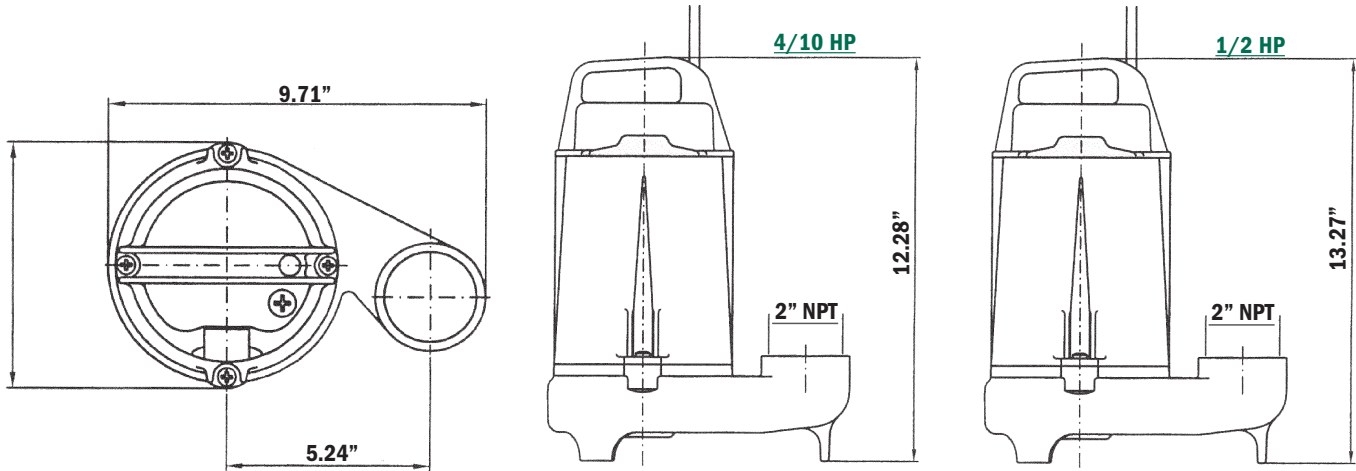


# SUBMITTAL DATA SHEET

Waste Water  
 Effluent | Sewage Ejectors | Grinders  
**Effluent Pumps - 4/10 & 1/2 HP**



Rugged, cast iron submersible ideal for residential and light commercial wastewater applications. Contains upper & lower ball bearings which reduces heat and increases life of the pump. Available with or without piggyback float switch.



## Effluent Pump Specifications

Model Number	Voltage	HP	Phase	Solids Size	Hertz	Speed (RPM)	Discharge	Weight	Cable Length(ft.)	Float Included
404011EF	115	4/10	1	3/4"	60	3450	2" Vert NPT	32	15	N
404011EFA	115	4/10	1	3/4"	60	3450	2" Vert NPT	34	15	Y
405011EF	115	1/2	1	3/4"	60	3450	2" Vert NPT	36	15	N
405011EFA	115	1/2	1	3/4"	60	3450	2" Vert NPT	38	15	Y
405012EF	230	1/2	1	3/4"	60	3450	2" Vert NPT	36	15	N
405012EFA	230	1/2	1	3/4"	60	3450	2" Vert NPT	38	15	Y

### SUBMITTAL INFORMATION

- High torque capacitor start motors
- 2" NPT vertical discharge, vortex impellers
- Cast iron housings
- Stainless steel fasteners and motor shaft
- 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.



**A.Y. McDonald Mfg. Co.**  
 P.O. Box 508  
 Dubuque, IA 52004-0508

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**Fax: 1-800-832-9296**  
**Hours: 7:00 a.m. - 5:00 p.m., CST**

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[www.aymcdonald.com](http://www.aymcdonald.com)

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:**

# SUBMITTAL DATA SHEET

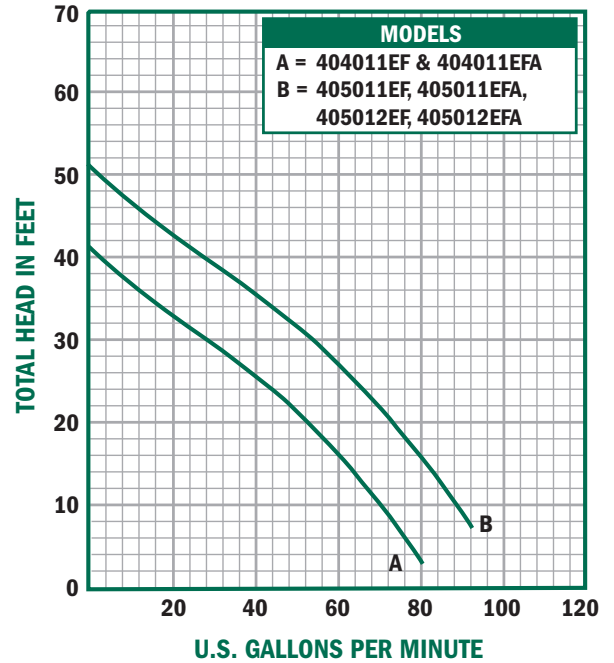
## Waste Water Effluent | Sewage Ejectors | Grinders Effluent Pumps - 4/10 & 1/2 HP



Rugged, cast iron submersible ideal for residential and light commercial wastewater applications. Contains upper & lower ball bearings which reduces heat and increases life of the pump. 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)	Float Included
404011EF	1	0.4 HP	115	9.1	40	N	0.6	49	2/3450	N
404011EFA	1	0.4 HP	115	9.1	40	N	0.6	49	2/3450	Y
405011EF	1	0.5 HP	115	13.2	58.5	P	0.85	50	2/3450	N
405011EFA	1	0.5 HP	115	13.2	58.5	P	0.85	50	2/3450	Y
405012EF	1	0.5 HP	230	6.6	35.2	S	0.85	50	2/3450	N
405012EFA	1	0.5 HP	230	6.6	35.2	S	0.85	50	2/3450	Y

### Cable Specifications

Model Number	Volts	Power Cable	Length (Feet)	Outer Jacket
404011EF	115 Volt	16/3 SJTOW-A or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
404011EFA	115 Volt	16/3 SJTOW-A or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405011EF	115 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405011EFA	115 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405012EF	230 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer
405012EFA	230 Volt	16/3 SJE00W or equiv. w/ 3 prong plug	15	Thermoplastic Elastomer

- Maximum submergence (feet) = 30
- Maximum temp. of pumped fluid = 104° F(40°C) continuous, =122°F (50°C) intermittent

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