SUBMITTAL DATA SHEET

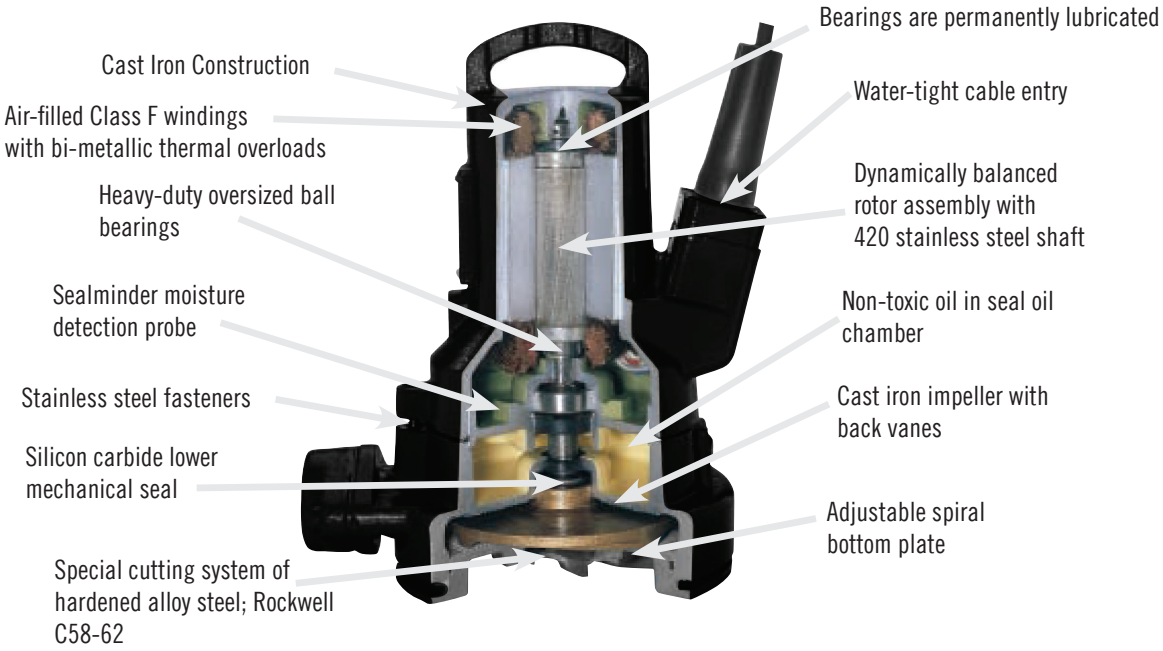
Waste Water

Effluent | Sewage Ejectors | Grinders

Grinder Pumps - 120212GRP

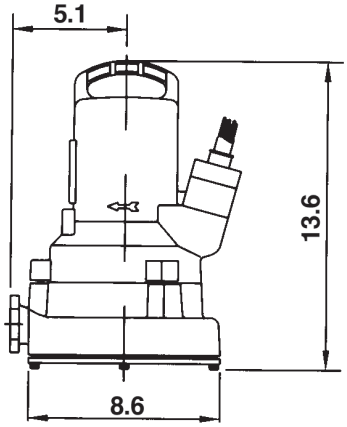


Cast iron construction grinder pump used for residental and light commercial applications. Thermal protection, non-toxic environmentally friendly oil in seal chamber, and available in single and three phase motors.



Model Number	Volts	Diameter	Power Cable	Length (Feet)	Outer Jacket
120212GRP	230	14/7 Type SOW-A	0.36in (9.2mm)	32	Thermoplastic elastomer
120232GRP	230	14/7 Type SOW-A	0.36in (9.2mm)	32	Thermoplastic elastomer
120234GRP	460	14/7 Type SOW-A	0.36in (9.2mm)	32	Thermoplastic elastomer

- Maximum submergence, ft. (m) - 33
- Maximum temp. of pumped fluid - 72ºF (40ºC)



Grinder Specifications

Model Number	Voltage	HP	Phase	Hertz	Speed (RPM)	Discharge	Height	Cable Length (ft.)
120212GRP	230	2.0	1	60	3450	1 1/4”	14”	32
120232GRP	230	2.0	3	60	3450	1 1/4”	14”	32
120234GRP	460	2.0	3	60	3450	1 1/4”	14”	32

Larger sizes available, contact factory.

SUBMITTAL INFORMATION

- Air-filled motor
- Sealminder safety check system
- Silicon carbide mechanical seal
- Heavy duty bearings
- Four pole version available for low-flow applications

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

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

Toll Free: 1-800-292-2737
Fax: 1-800-832-9296
Hours: 7:00 a.m. - 5:00 p.m., CST

sales@aymcdonald.com
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

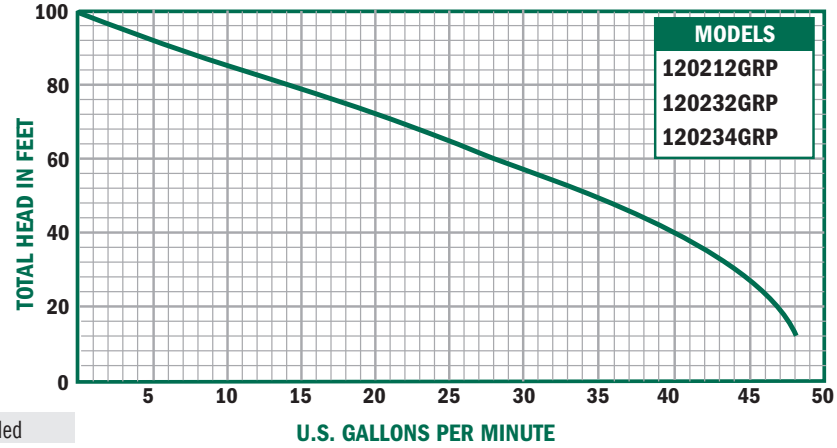
Effluent | Sewage Ejectors | Grinders

Grinder Pumps - 120212GRP



Materials of Construction & Motor Specifications

Motor Housing	Cast Iron ASTM A48 Class 30
Cable Cap	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
External Hardware	AISI 304 Stainless Steel
O-ring	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Cutter Disc Assembly	Chrome Molybdenum Cobalt Tool Steel 58-62 Rockwell "C"
Upper Bearing	Single row ball bearing
Lower Bearing(s)	Single row ball bearing
Upper Shaft Seal	Buna N Lip Seal
Lower Shaft Seal	Silicon Carbide
Impeller	Cast Iron, Open Multi-vane
Motor Design	NEMA design B, squirrel cage induction, air-filled
Motor Type	Enclosed submersible
Insulation Class	Class F, rated at 155º C
Motor Protection	Oil Chamber Moisture Detector, bimetallic switches embedded in each phase for thermal overload protection. Installer must conform to N.E.C. standards, 1990 Ed. Art. 430
Bimetallic Temp Trip	234ºF ± 9º (130ºC ± 5ºC)
Service Factor	1.0
Voltage Tolerance	± 10% from name plate rating



Motor Data, 60 Hz

Model Number	Phase	Output Power	Volts BHP	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/ Speed (RPM)
120212GRP*	1	2.0	230	10.8	29.4	A	0.99	73.1	2/3450
120232GRP	3	2.0	230	7.2	38.5	G	0.84	74.5	2/3450
120234GRP	3	2.0	460	3.6	19.2	G	0.84	74.5	2/3450

*Requires external start kit mounted in the control panel

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.

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