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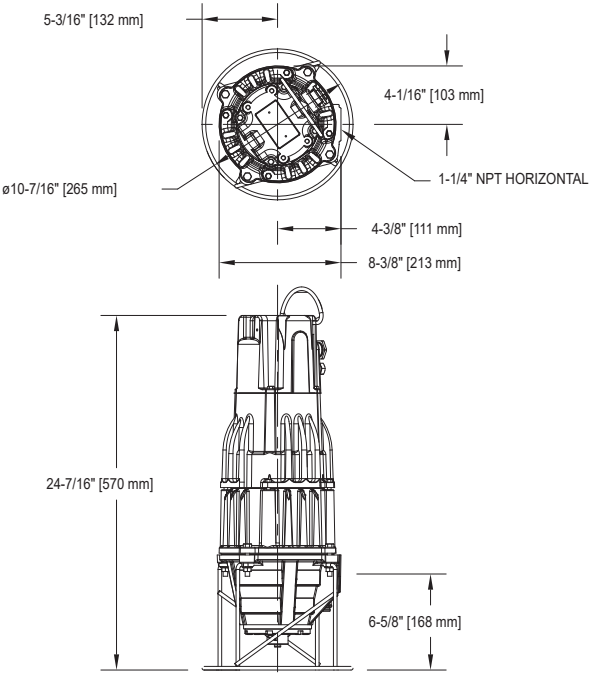
TECHNICAL DATA SHEET

SEWAGE WASTE SERIES

Models 810, 815 Progressing Cavity Grinder Pumps

PRODUCT SPECIFICATIONS

MOTOR	Horse Power	1 (810), 2 (815)
	Voltage	230
	Phase	1 Ph
	Hertz	60 Hz
	RPM	1725
	Type	Permanent split capacitor
	Insulation	Class B
	Amps	7.0 (810), 10.5 (815)
PUMP	Operation	Nonautomatic
	Discharge Size	1-1/4" NPT horizontal
	Cord Length	20' (6 m) standard
	Cord Type	SOW or SOOW, multi-wire neoprene
	Max. Head	810: 150' (45.7 m), 815: 240' (73.2 m)
	Max. Flow Rate	14.6 GPM (55 LPM)
	Max. Operating Temp.	130 °F (54 °C)
	Cooling	Oil filled
MATERIALS	Motor Protection	Auto reset thermal overload
	Cap	Cast iron
	Motor Housing	Cast iron
	Adapter	Cast iron
	Pump Housing	Cast iron
	Upper Bearing	Ball bearing
	Lower Bearing	Ball bearing
	Mechanical Seals	Carbon/ceramic
	Hydraulic Rotor	Stainless steel
	Hydraulic Stator	Buna-N
	Hardware	Stainless steel
	Motor Shaft	Stainless steel
	Gasket & Square Ring	Neoprene
	Cutter	Hardened stainless steel, Rockwell C55-60

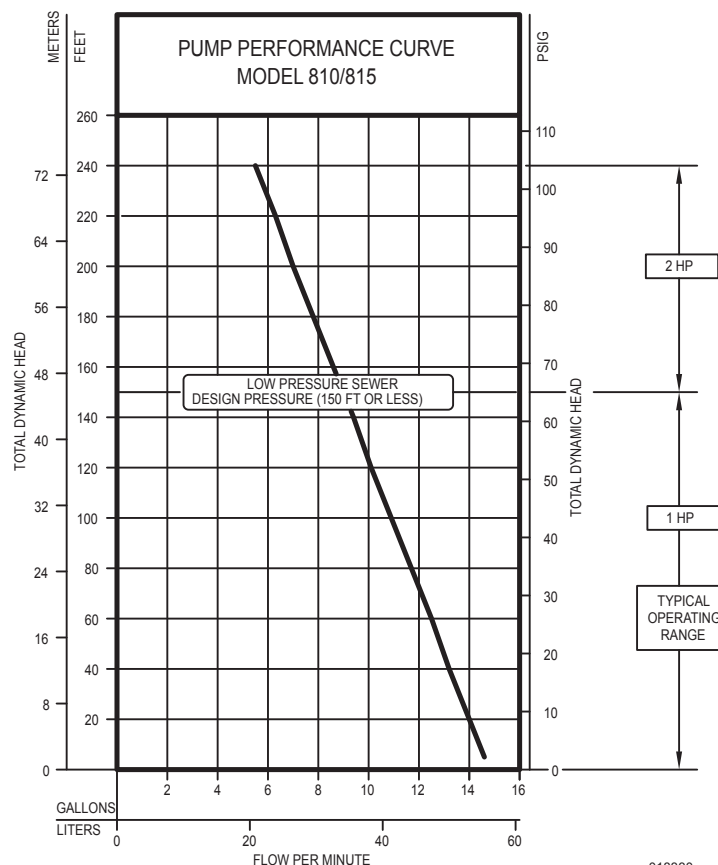


SK2533



TOTAL DYNAMIC HEAD FLOW PER MINUTE

	Feet	Meters	Gal.	Liters
MODEL 810	5	1.5	14.6	55
	10	3.0	14.4	55
	20	6.1	14.0	53
	40	12.2	13.2	50
	60	18.3	12.5	47
	80	24.4	11.7	44
	100	30.5	10.9	41
	120	36.6	10.1	38
	140	42.7	9.4	36
	150	45.7	9.0	34
MODEL 815	160	48.8	8.6	33
	180	54.9	7.8	30
	200	61.0	7.0	27
	220	67.1	6.3	24
	240	73.2	5.5	21



Model	MODEL COMPARISON								
	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg
E810	Single	Non	230	1	7.0	1	60	88	40
E815	Single	Non	230	1	10.5	2	60	91	41

CAUTION All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

A) GRINDER SYSTEMS

STANDARD FEATURES:

- 1-1/4" NPT discharge
- Carbon/ceramic tandem seals
- Thermal overload protection
- Hydraulic stainless steel rotor and Buna-N stator
- Stainless steel cutter plate / cutter
- Stainless steel shaft
- Stainless steel hardware
- Corrosion-resistant, powder coated epoxy paint
- 20' (6 m) power cord

Options:

- ☐ 35' (11 m) long cords
- ☐ 50' (15 m) long cords

CAUTION To ensure proper pump operation, a swing or flapper style check valve must be installed in the pump discharge line. A faulty or non-functional check valve when combined with a pressure sewer may prevent the pump from starting.

Maximum operating temperature 130 °F (54 °C).

Note: All variable level float switches in this section are mechanically activated and do not contain mercury.

SIMPLEX PANEL
B) CONTROL PANEL □ P/N 31324-0001 Simplex panel, NEMA 4X, with high water alarm and pump circuit breaker, less float switches.
C) FLOAT SWITCHES - 2 required Pump: One pump switch Alarm: One control switch □ P/N 10-0744 mechanical control switch with 20' (6 m) cord □ P/N 10-1877 mechanical control switch with 25' (8 m) cord □ P/N 10-1878 mechanical control switch with 35' (11 m) cord
D) JUNCTION BOX - optional □ P/N 10-2145 NEMA 4X with 3 cord seals and conduit connection.

ACCESSORIES FOR FIELD-ASSEMBLED SYSTEMS FLEX-HOSE DISCHARGE ASM. ☐ P/N 10-2038 with 30" (76 cm) hose Z-RAIL® DISCONNECT SYSTEM ☐ P/N 39-0137 1-1/4" (3.2 cm) H x 1-1/4" (3.2 cm) V ductile Iron ☐ P/N 39-0138 1-1/4" (3.2 cm) H x 1-1/4" (3.2 cm) V with stainless steel upper bracket ☐ P/N 39-0139 Intermediate bracket stainless steel STAINLESS STEEL LIFTING CABLES AND ROD ☐ P/N 39-0031 8' (2.4 m) cable ☐ P/N 39-0032 12' (3.7 m) cable ☐ P/N 39-0069 1' (0.3 m) rod ☐ P/N 10-0789 stainless steel lifting bail GALVANIZED 1.25" DISCH. ELBOW ☐ P/N 018386 CHECK VALVE ☐ P/N 30-0223 1.25" NPT brass BALL VALVE ☐ P/N 30-0165 1.25" PVC ☐ P/N 30-0213 1.25" NPT brass

OUTDOOR SYS. w/ FLEX HOSE

FIBERGLASS BASIN AND COVER

1.25" FLEXIBLE HOSE w/ DISCONNECT

☐ P/N 35-0006 24" x 48" (61 x 122 cm)

☐ P/N 35-0007 24" x 60" (61 x 152 cm)

☐ P/N 35-0008 24" x 72" (61 x 183 cm)

☐ P/N 35-0084 24" x 84" (61 x 213 cm)

SK2540

- Fiberglass basin with anti-flotation ring
- Flex-hose discharge with disconnect
- 1-1/4" PVC discharge pipe from disconnect
- 1' Pull rod and 8' (2.4 m) stainless steel lifting cable
- 1-1/4" PVC ball valve(s), 1-1/4" brass check valve(s), and 1-1/4" brass anti-siphon device
- 1-4" Rubber inlet pipe seal (field inst.)
- Solid fiberglass cover with Zoeller imprint

OUTDOOR SYSTEM w/ Z-Rail®

FIBERGLASS BASIN AND COVER

Z-RAIL® DISCONNECT SYSTEM

□ 24" x 60" (61 x 152 cm) P/N 33-1598

□ 24" x 72" (61 x 183 cm) P/N 33-1597

□ 24" x 84" (61 x 213 cm) P/N 33-1594

□ 24" x 96" (61 x 244 cm) P/N 33-1596

Labels in diagram:

- 1/8" 302 STAINLESS STEEL LIFTING CABLE
- FLOAT TREE ASSEMBLY
- 1 1/4" PVC PIPE
- 4" RUBBER INLET PIPE SEAL (FIELD INSTALLED)
- HIGH LEVEL ALARM FLOAT
- PUMP CONTROL "ON - OFF" FLUME
- 1 1/4" BULK HEAD DISCHARGE FITTING
- 1 1/4" BALL VALVE
- 1 1/4" DISCHARGE PIPE
- 1 1/4" CHECK VALVE
- 2" TO 1 1/4" REDUCER
- 3/4" GUIDE RAIL
- FIBERGLASS BASIN
- 1 1/4" H X 1 1/4" Z-RAIL DISCONNECT SYSTEM, EPOXY COATED DUCTILE IRON
- ANTI-SIPHON VALVE (OPTIONAL)
- SIMPLEX CONTROL PANEL (FIELD INSTALLED)
- FIBERGLASS ANTI-FLOTATION FLANGE

24" MIN.

SK3091

- Fiberglass basin with anti-flotation ring
- 1-1/4" Schedule 80 PVC discharge piping
- 1-1/4" H x 1-1/4" Z-rail® P/N 39-0137 disconnect system, epoxy coated ductile iron
- 3/4" galvanized rail pipes
- Stainless steel lifting cable
- 1-1/4" brass ball valve
- 1-1/4" brass check valve
- Anti-siphon device
- PVC float tree
- 1-4" rubber inlet pipe seal (field inst.)
- 1-2" pipe seal (field inst.) for electrical conduit
- Solid fiberglass cover with Zoeller imprint

REQ.			Part Number
1	A	E810 or E815	☐ 810-0004 or ☐ 815-0004
1	B	Control Panel	☐ 31324-0001
3	C	Float Switch	☐ _____
1	D	Junction Box (If Required)	☐ 10-2145
1	E	Basin Assembly	☐ _____
Optional Accessories		Flex Hose Discharge	☐ 10-2038
		Z-Rail Disconnect	☐ _____
		Lifting Cable	☐ _____
		Discharge Elbow	☐ 018386
		Check Valve	☐ 30-0223
		Ball Valve	☐ _____

