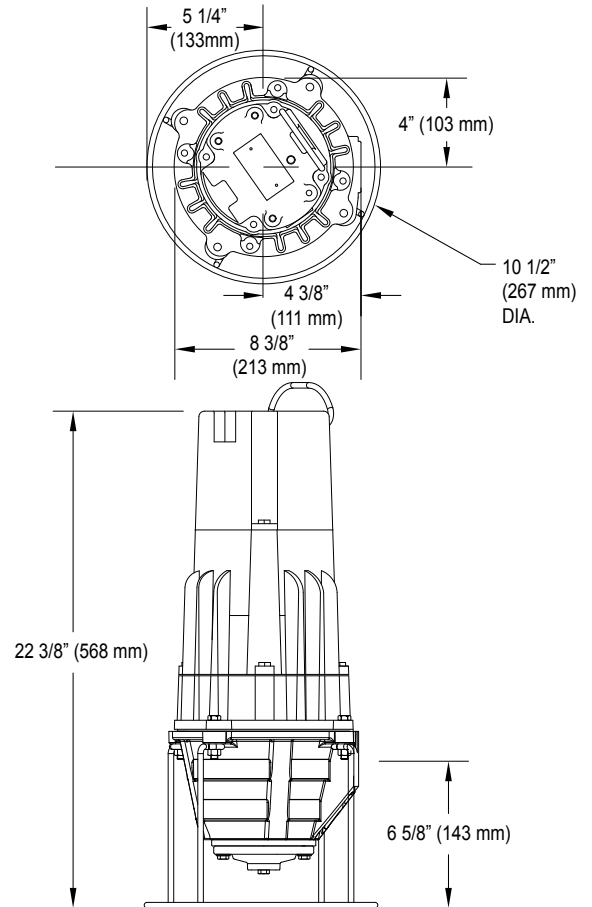


Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.

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
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' (73.1 m)
Max. Flow Rate		15.6 GPM (59 LPM)
Max. Operating Temp.		130°F (54°C)
Cooling		Oil filled
Motor Protection		Auto reset thermal overload
MATERIALS		Cap
	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



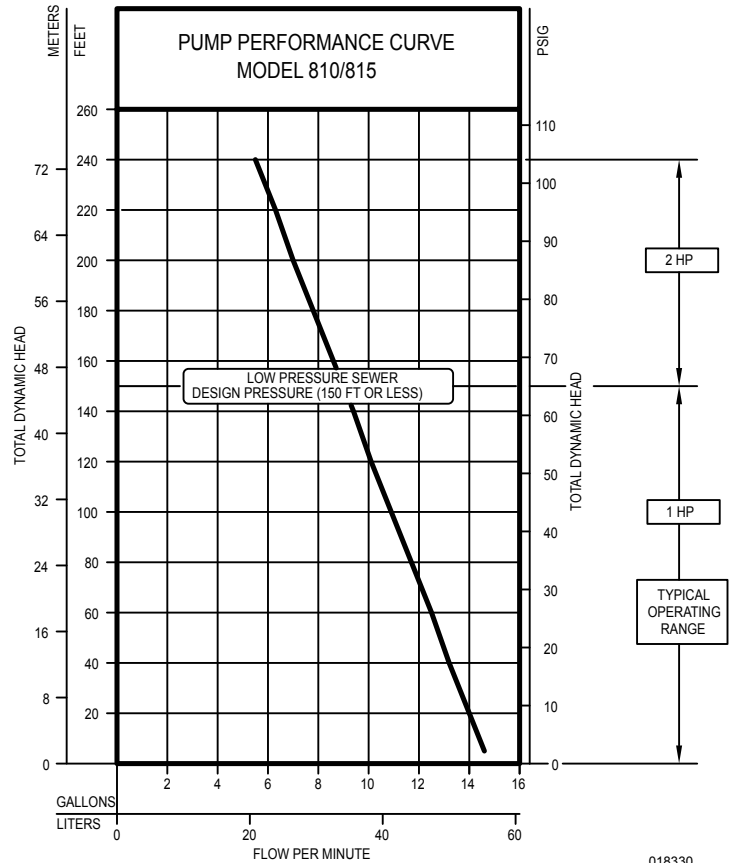
SK2533

NOTE: See model comparison chart for specific details.



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).

GRINDER SYSTEMS

(A) GRINDER

STANDARD FEATURES:

- 1¼" 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 cord

Options:

- 25' (8 m) Long cords
- 35' (11 m) Long cords
- 50' (15 m) Long cords

A) 810 & 815 PROGRESSING CAVITY GRINDERS 1 OR 2 HP 1¼" N.P.T. DISCHARGE

	P/N	WGT.	MODEL	VOLTS	PH	HP	AMP
<input type="checkbox"/>	810-0004	88 lb (39.9 kg)	E810	230	1	1	7.0
<input type="checkbox"/>	815-0004	91 lb (41.3 kg)	E815	230	1	2	10.5

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

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.

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

QWIK BOX w/ FLOAT SWITCH
<p>B) ALARM PANEL</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-0623 Indoor/Outdoor high water alarm with 15' (5 m) control switch. <input type="checkbox"/> P/N 10-0126 NEMA 4X high water alarm with 15' (5m) control switch and dry contact. <input type="checkbox"/> P/N 10-1494 Indoor high water alarm with 15' (5m) control switch.
<p>C) PUMP SWITCH AND WEIGHT -</p> <p>1 pump switch required</p> <p>Single piggy-back type 230 volt 13 amp</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-0035 with 15' (5 m) cord <input type="checkbox"/> P/N 10-0689 weight for alarm float (Indoor systems only)
<p>D) JUNCTION BOX -</p> <p>1 required</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-0580 Qwik-Box, NEMA 4X with 230 volt receptacle

PLUGGER PANEL
<p>B) CONTROL PANEL</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-2006 Plugger panel, NEMA 4X with high water alarm and 230 volt receptacle.
<p>C) FLOAT SWITCHES -</p> <p>2 required</p> <p>Pump: One pump switch Alarm: One control switch</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-0706 piggy-back pump switch with 20' (6 m) cord <input type="checkbox"/> P/N 10-0311 piggy-back pump switch with 25' (8 m) cord <input type="checkbox"/> P/N 10-1956 piggy-back pump switch with 35' (11 m) cord <input type="checkbox"/> P/N 10-0744 mechanical control switch with 20' (6 m) cord <input type="checkbox"/> P/N 10-1877 mechanical control switch with 25' (8 m) cord <input type="checkbox"/> P/N 10-1878 mechanical control switch with 35' (11 m) cord
<p>D) JUNCTION BOX</p> <p>J-Box not recommended with this type control.</p>

SIMPLEX PANEL
<p>B) CONTROL PANEL</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-1212 Simplex panel, NEMA 4X, with high water alarm and pump circuit breaker, less float switches.
<p>C) FLOAT SWITCHES -</p> <p>2 required</p> <p>Pump: One pump switch Alarm: One control switch</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-0706 piggy-back pump switch with 20' (6 m) cord <input type="checkbox"/> P/N 10-0311 piggy-back pump switch with 25' (8 m) cord <input type="checkbox"/> P/N 10-1956 piggy-back pump switch with 35' (11 m) cord <input type="checkbox"/> P/N 10-0744 mechanical control switch with 20' (6 m) cord <input type="checkbox"/> P/N 10-1877 mechanical control switch with 25' (8 m) cord <input type="checkbox"/> P/N 10-1878 mechanical control switch with 35' (11 m) cord
<p>D) JUNCTION BOX - optional</p> <ul style="list-style-type: none"> <input type="checkbox"/> P/N 10-2145 NEMA 4X with 3 cord seals and conduit connection.

E) INDOOR AND OUTDOOR PACKAGED SYSTEMS - PUMP AND CONTROLS NOT INCLUDED

OUTDOOR SYS. w/ SQUARE GRS

FIBERGLASS BASIN AND COVER

SQUARE GUIDERAIL SYSTEM

- P/N 33-0491 24" x 48" (61 x 122 cm)
- P/N 33-0492 24" x 60" (61 x 152 cm)
- P/N 33-0493 24" x 72" (61 x 183 cm)

SK2569

- Fiberglass basin with anti-flotation ring
- 1/4" galvanized pump discharge piping to disconnect
- 1/4" PVC discharge pipe from disconnect
- 1/4" Adaptaflex discharge pipe seal
- Stainless steel square guide rail system
- 1' (0.3 m) pull rod
- 8' (2.4 m) stainless steel lifting cable
- 1/4" PVC ball valve
- 1/4" brass check valve
- 1/4" brass anti-siphon device
- PVC float tree
- 1-4" rubber inlet pipe seal (field inst.)
- Fiberglass cover

OUTDOOR SYS. w/ FLEX HOSE DC

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)

SK2540

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

OUTDOOR SYSTEM w/ Z-Rail

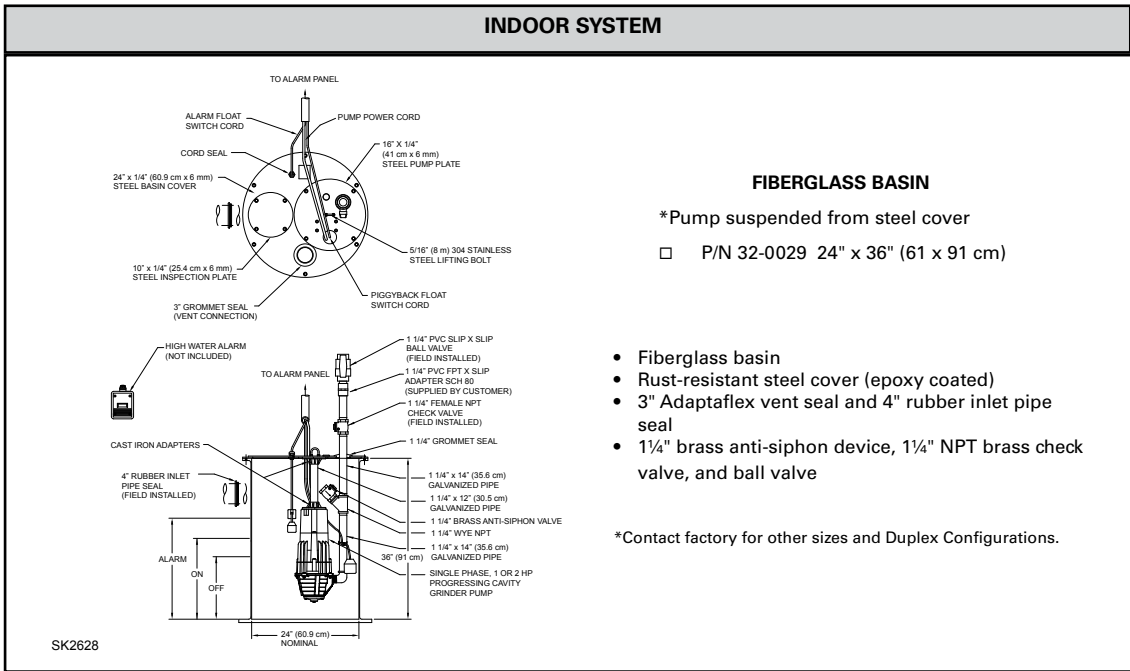
FIBERGLASS BASIN AND COVER

Z-RAIL DISCONNECT SYSTEM

- 24" x 60" (61 x 152 cm)
- 24" x 72" (61 x 183 cm)
- 24" x 84" (61 x 213 cm)
- 24" x 96" (61 x 244 cm)

SK3019

- Fiberglass basin with anti-flotation ring
- 1/4" Schedule 80 PVC discharge piping
- 1/4" H x 1/4" Z-rail disconnect system, epoxy coated ductile iron
- 3/4" Rail pipes
- Stainless steel lifting cable
- 1/4" PVC ball valve
- 1/4" brass check valve
- 1/4" brass anti-siphon device
- PVC float tree
- 1-4" rubber inlet pipe seal (field inst.)
- Fiberglass cover



PREPACKAGED AND JOB READY SYSTEMS

F) ACCESSORIES FOR FIELD-ASSEMBLED SYSTEMS

FLEX-HOSE DISCHARGE ASM.

- P/N 10-2038 with 30" (76 cm) hose

SQUARE GUIDE RAIL SYSTEM

- P/N 39-0106 - 48" (122 cm) deep basin
- P/N 39-0107 - 60" (152 cm) deep basin
- P/N 39-0108 - 72" (183 cm) deep basin
- P/N 39-0070 - Rail extension bracket

Z-RAIL DISCONNECT SYSTEM

- P/N 39-0137 1/4" (3.2 cm) H x 1/4" (3.2 cm) V Ductile Iron
- P/N 39-0138 1/4" (3.2 cm) H x 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

PREWIRED CONDUIT

(10-0580 Qwik Box Required)

- P/N 5100-0016 - 25' (8 m)
- P/N 5100-0017 - 35' (11 m)
- P/N 5100-0018 - 50' (15 m)

FIELD-MOUNT SYSTEMS

SIMPLEX	
REQ.	REQ.
1 810 or 815 Grinder	P/N ____ (A)
1 Control panel/Alarm system	P/N ____ (B)
1 Piggyback pump switch	P/N ____ (C)
1 Control switch (if required)	P/N ____ (C)
1 Weight for alarm float (if required)	P/N ____ (D)
1 Junction Box (Optional)	P/N ____ (F)
1 Optional accessories	P/N ____ (F)
	P/N ____ (F)
	P/N ____ (F)
	P/N ____ (F)

INDOOR	
REQ.	REQ.
1 810 or 815 Grinder	P/N _____ (A)
1 Alarm panel	P/N _____ (B)
1 Piggyback pump switch	P/N _____ (C)
1 Weight for alarm float	P/N _____ (C)
1 Basin, cover and hardware	P/N _____ (F)

OUTDOOR	
REQ.	REQ.
1 810 or 815 Grinder	P/N _____ (A)
1 Control panel/Alarm system	P/N _____ (B)
1 Piggyback pump switch	P/N _____ (C)
1 Control switch (if required)	P/N _____ (C)
1 Junction Box (if required)	P/N _____ (D)
1 Basin, cover and hardware	P/N _____ (F)