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



SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961

(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624



SECTION: 2.50.040 FM1232

Supersedes 0408

visit our web site: www.zoeller.com

THE SINDER PUMP

FEATURES:

- · Durable heavy-duty finned cast iron construction
- 2 HP, 60 Hz, 3450 RPM
- · Oil-filled, hermetically-sealed motor with Class-F insulation
- · Hardened stainless steel cutter and disc
- Cutters protected from abrasive solids
- Cutters can automatically alternate direction to enhance blade Life and free hang-ups. (Automatic or manually)
- · Stainless steel screws, bolts, and lifting bail
- Easily adapts to many existing competitors' rail systems
- Tandem seals with leak detection
- Automatic thermal overload protection (single phase)
- Thermal sensor protection (standard on 3 phase)
- Legs provide for free-standing installation
- Preassembled systems available
- Corrosion-resistant powder coated epoxy finish

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



PUMP SYSTEMS AND REVERSING CONTROLS



GRINDER SYSTEMS

(A) GRINDER MODEL - 840 2 HP, 11/4" N.P.T. VERTICAL DISCHARGE - 20 FT. CORDS						
P/N	Wgt.	MODEL	VOLTS	PH	AMP	
□ 840-0004	137	E840	230	1¤	17.2	
□ 840-0005	137	1840	200	1¤	20.0	
□ 840-0006	132	F840	230	3	10.8	
□ 840-0007	132	J840	200	3	12.3	
□ 840-0008	132	G840	460	3	5.5	
□ 840-0009	132	BA840	575	3	4.5	

¤ Single phase units require a set of capacitors and relay starting components.

STANDARD FEATURES:

- Reversible cutter action manual / auto**
- 1¼" Npt vertical discharge
- · Carbon/ceramic tandem seals
- Thermal sensors** (O.L. On 1ph)
- Moisture probes**
- · Balanced bronze impellers
- Stainless steel cutter and plate (R-C 55-60)
- Stainless steel shaft
- Stainless steel lifting bail
- · Corrosion-resistant powder coated epoxy paint
- · 20' power cord 20' sensor cord
- III listed

OPTIONS:

- ☐ Extended cord lengths
- ☐ Anti-siphon device
- **requires circuit in control panel to function

(C)* VARIABLE LEVEL FLOAT SWITCHES **INDOOR SYSTEM**

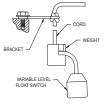
3 Switches and weights without brackets □ P/N 10-0347 Wgt. 9.5

4 Switches and weights without brackets □ P/N 10-0348 Wgt. 13.0

OUTDOOR SYSTEM

3 Switches with weights and brackets P/N 10-0329 Wgt. 10.0

4 Switches with weights and brackets □ P/N 10-0330 Wgt. 14.0



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

(D) CHECK VALVES

11/4" Cast iron NPT female

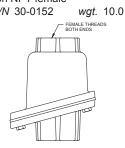
□ *P/N* 30-0163 wqt. 7.5

11/2" Cast iron NPT female

□ P/N 30-0164 wgt. 7.5

2" Cast iron NPT female

□ P/N 30-0152



SK1330

(B) CONTROL PANELS					
	SIMPLEX DUPLEX				
	NEMA 4	4X			
MODEL	P/N	Wgt.	P/N	Wgt.	
E or I 840	□ 10-0393	15	□ 10-0397	21	
E or I 840	□ 10-0420*	17	□ 10-0512*	23	
F or J 840	□ 10-0394	18	□ 10-0398	21	
G840	□ 10-0395	18	□ 10-0399	21	
BA840	□ 10-0396	18	□ 10-0400	21	

*With Audible and Visible High Water Alarm

CONTROL PANEL STANDARD FEATURES:

- NEMA 4X outdoor rating
- Starting, control, and alarm circuits
- Thermal cut-out circuit (3 phase only)
- Circuit breaker and rated motor contactor (single phase)
- Capacitors and motor starting relay on single phase
- Motor protective switch (circuit breaker / adj overloads) and rated motor contactor (3 Phase)
- Alternating circuit (duplex)
- Automatic reversing circuit
- High water alarm light
- Internal seal leak light
- HOA switches and pilot light(s)
- Terminal strips
- Padlock hasp
- Capacitors/start relay (single phase)

OPTIONS:

- □ Audible high water alarm
- ☐ Flasher for high water alarm
- □ Manual reset of high water alarm
- □ Intrinsically safe relays
- □ Elapsed time meters
- □ Dry auxiliary contact
- ☐ For other options, consult factory

Maximum Temperature for Sewage 130°F (54°C)

SIMPLEX REVERSING CONTROL BOXES*

	AUTON	IATIC	MANUA	\L
MODEL	P/N	Wgt.	P/N	Wgt.
E840	□ 10-0352	8	□ 10-0360	7
1840	□ 10-0352	8	□ 10-0360	7
F840	□ 10-0353	6	□ 10-0361	5
J840	□ 10-0353	6	□ 10-0361	5
G840	□ 10-0353	12	□ 10-0361	5
BA840	□ 10-0355	12	□ 10-0362	5

* These control boxes consist of the reversing mechanisms and capacitors (1Ph units) only. They will not control pumps. Refer to Section B for complete system controls. For duplex applications use two simplex reversing control boxes. (for pump prefix identification see News & Views 0052)

FOR GRINDER PUMP ONLY

Single phase pump requires two capacitors and a motor starting relay factory mounted in a NEMA 4X starter pack.

□ P/N 10-0379 Wgt. 7

Two capacitors and motor starting relay shipped loose to be mounted in existing panel.

□ P/N 10-0380 Wgt. 2

THE MODEL 840 GRINDER WILL FIT ON MYER'S RAIL

P/N RWG125 (1 required) & RWGD125 (2 required) by using Zoeller's adapter.

□ P/N 10-0381 Wgt. 3

Hydro-O-Matic's Hydr-O-Rail® bolts directly to Model 840 by using base adapter.

Specify when ordering.

(E) **JUNCTION BOXES - TYPE 4X**

SIMPLEX

5 holes with seals for (1) power cord,

(1) sensor cord, (3) float switch cords.

☐ *P/N* 10-0331 *Wgt.* 2.5 3-float system

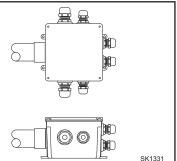
DUPLEX

8 holes with seals for (2) power cords,

(2) sensor cords, (3 or 4) float switch cords.

□ P/N 10-0332 Wgt. 2.5 3-float system

□ P/N 10-0421 Wgt. 2.5 4-float system



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INDOOR BASIN, COVER, AND HARDWARE - PREPACKAGED STANDARD EQUIPMENT

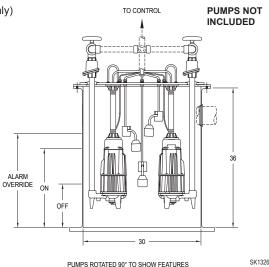
- Fiberglass basin
- · Rust-resistant steel cover (epoxy coated only)
- Inspection plate
- Individual pump covers
- 3" Adaptaflex vent seal
- 11/4" Adaptaflex discharge pipe seal(s)
- · Cord seal(s)
- 1-4" Rubber inlet pipe seal (field installed)
- Pump support hardware
- 11/4" Check valve(s)
- Ball valve(s)

SIMPLEX

□ 24" x 36" P/N 32-0005 Wgt. 107

DUPLEX

- □ 30" x 36" *P/N* 32-0006 *Wgt*. 3-float system
- □ 30" x 36" *P/N* 32-0007 *Wgt*. 4-float system



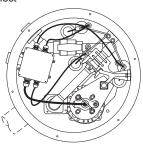
BALL VALVE 11/4" IPS □ *P/N* 30-0165 2.0 11/3" IPS □ *P/N* 30-0166 Wqt. 2.0 2" IPS □ P/N 30-0167 2.5 Wgt.

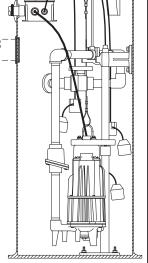
OUTDOOR BASIN, COVER, AND RAIL SYSTEM ASSEMBLIES - STANDARD EQUIPMENT

- Fiberglass basin with anti-flotation ring
- 1¼" Galvanized pump discharge piping to disconnect
- 1½" PVC discharge pipe from disconnect
- 11/4" Adaptaflex discharge pipe seal
- · Stainless steel square guide rail
- 1' Pull rod
- · 8' SS lifting cable for basin depths to 84" (12' SS lifting cable for basin depths of 96")
- 11/4" PVC ball valve(s)
- 11/4" C.I. check valve(s)
- 1-4" Rubber inlet pipe seal (field installed)
- Fiberglass cover

SIMPLEX

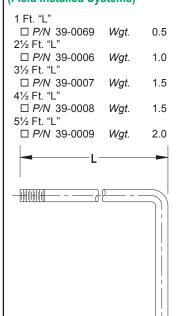
□ 24" x 48" P/N 33-0022 Wgt. 206 □ 24" x 60" P/N 33-0023 Wgt. 219 □ 24" x 72" P/N 33-0024 Wgt. 233 □ 24" x 84" P/N 33-0057 Wgt. 264 □ 24" x 96" P/N 33-0025 Wgt. 277 **DUPLEX** □ 36" x 48" P/N 33-0034 367 Wgt. □ 36" x 60" P/N 33-0035 Wgt. 389 472 □ 36" x 72" P/N 33-0036 Wqt. □ 36" x 84" P/N 33-0059 Wgt. 499





PUMP NOT INCLUDED

(J) PULL RODS FOR SQUARE **GUIDE RAIL SYSTEMS ONLY** (Field Installed Systems)



(H) RAIL SYSTEMS - (FIELD INSTALLED)

P/N 33-0037

Wgt.

525 OPTIONS: •All SS fitted •Larger diameter or deeper basins (allow for overhead clearance)

E-Z out Rail System for 11/4" pump discharges (Rail System discharge is 2" NPT male thread)

Galvanized Fitted □ P/N 39-0087

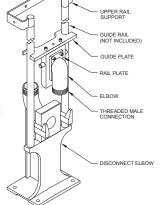
□ 36" x 96"

Wat. 43 Stainless Steel Fitted □ *P/N* 39-0088 Wgt. 43

Intermediate Stabilizer Bracket for every 12' of depth.

Galvanized

□ P/N 39-0089 Wgt. 6.0 Stainless Steel □ P/N 39-0090 Wgt. 6.0



SK1859

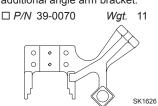
Square Guide Rail System for systems less than 96" deep)

BASIN DEPTH

□ 48" P/N 39-0054 Wat. 90.5 □ 60" P/N 39-0055 Wgt. 94.5 □ 72" P/N 39-0056 Wgt. 98.5

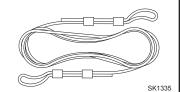
Fits both round and square basins Includes square guide rail

Basins over 72" deep require one additional angle arm bracket.



(K) SS LIFTING CABLE (Field Installed Systems) 8 Ft.

□ P/N 39-0031 Wgt. 1.0 12 Ft. □ P/N 39-0032 Wqt. 1.0 16 Ft. □ P/N 39-0033 Wgt. 10 20 Ft. □ P/N 39-0034 Wgt. 1.0 24 Ft. □ P/N 39-0035 Wqt. 1.0



PREPACKAGED AND JOB READY SYSTEMS

SIMPLEX		INDOOR		DUPLEX	
REQ. 1 Grinder 1 Simplex control panel 1 Variable level fl. sw. assm. 1 Basin, cover and hardware		(A) (B) (C) (F)	1 Du	rinders uplex control panel uriable level fl. sw. assm. asin, cover and hardware	P/N(A) P/N(B) P/N(C) P/N(F)

SIMPLEX		DOOR	DUPLEX	
REQ. 1 Grinder 1 Simplex control panel	P/N(A) P/N (B)	11	Grinders Suplex control panel	P/N(A) P/N (B)
Variable level fl. sw. assm. J-box Basin, cover and rail system	P/N (C) P/N (E) P/N (G)	1 J.	ariable level float sw. assm. -box asin, cover and rail system	P/N (C) P/N (E) P/N (G)

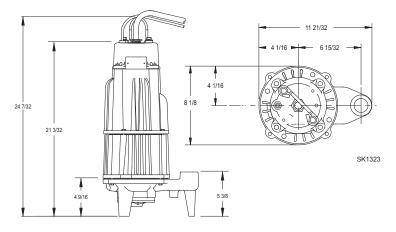
FIELD-MOUNT SYSTEMS

SIMPLEX				
RE	Q.			
1	Grinder	P/N(A)		
1	Simplex control panel	P/N(B)		
1	Variable level float sw. assm.	P/N (C)		
1	Junction box	P/N(E)		
1	Rail system	P/N (H)		
1	Angle arm/intermediate bracket*	P/N (H)		
1	Pull rod**	P/N(J)		
1	Stainless steel lifting cable	P/N (K)		
	DUPLEX			
REQ.				
2	Grinders	P/N (A)		
1	Duplex control panel	P/N(B)		
1	Variable level float sw. assm.	P/N (C)		
1	Junction box	P/N(E)		
2	Rail systems	P/N (H)		
2	Angle arm/intermediate bracket*	P/N (H)		
2	Pull rods**	P/N(J)		
2	Stainless steel lifting cables	P/N (K)		

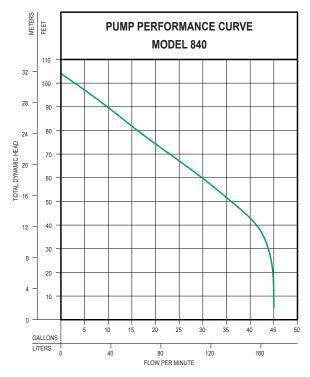
^{*} Required for basin depths over 72" (Square Guide Rail) and over 12' (E-Z Out Rail). Allow for overhead clearances.

Manufacturers of . . .

"Quality Pumps Since 1939"



SK1322



^{**} For Square Guide Rail only.

Access doors available on field mount systems - consult factory

Special basin configurations - consult factory

Junction box mounting & assembly - consult factory