

"QUALITY PUMPS SINCE 1939"

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

**ZOELLER**  
PUMP CO.



SECTION: 2.50.040

FM1232

0408

Supersedes

0906

MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347  
SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961  
(502) 778-2731 • 1 (800) 928-PUMP • FAX (502) 774-3624

visit our web site:  
[www.zoeller.com](http://www.zoeller.com)

# THE SHARK<sup>®</sup>

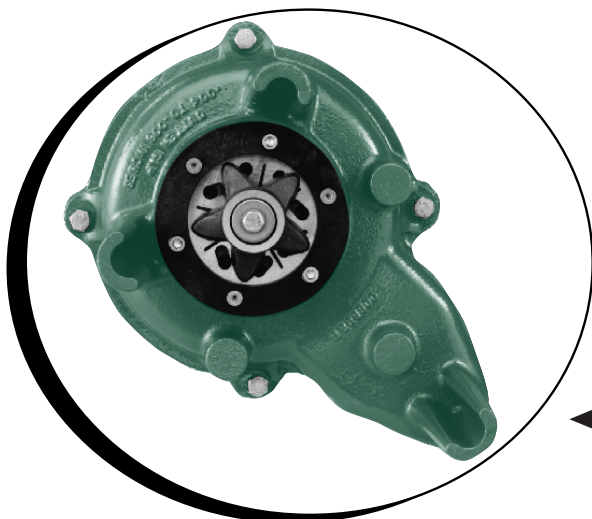
Series

## 840 GRINDER 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

### 840 SERIES



POWDER  
COATED  
**TOUGH™**



Tested to UL Standard  
UL778 and Certified to  
CSA Standard C22.2  
No. 108



Submersible Wastewater  
Pump Association  
**SWPA**  
**MEMBER**

Product may not be exactly as pictured.

# GRINDER SYSTEMS

## (A) GRINDER MODEL - 840 2 HP, 1 1/4" N.P.T. VERTICAL DISCHARGE - 20 FT. CORDS

P/N	WGT.	MODEL	VOLTS	PH	AMP
<input type="checkbox"/> 840-0004	137	E840	230	1 $\phi$	17.2
<input type="checkbox"/> 840-0005	137	I840	200	1 $\phi$	20.0
<input type="checkbox"/> 840-0006	132	F840	230	3	10.8
<input type="checkbox"/> 840-0007	132	J840	200	3	12.3
<input type="checkbox"/> 840-0008	132	G840	460	3	5.5
<input type="checkbox"/> 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\*\*
- 1 1/4" 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 ft. Power Cord - 20 ft. Sensor Cord
- UL Listed

### OPTIONS:

- Extended Cord Lengths
- Anti-Siphon Device

\*\*Requires Circuit in Control Panel to Function

## (B) CONTROL PANELS

SIMPLEX NEMA 4X			DUPLEX NEMA 4X	
MODEL	P/N	WGT.	P/N	WGT.
E or I 840	<input type="checkbox"/> 10-0393	15	<input type="checkbox"/> 10-0397	21
E or I 840	<input type="checkbox"/> 10-0420*	17	<input type="checkbox"/> 10-0512*	23
F or J 840	<input type="checkbox"/> 10-0394	18	<input type="checkbox"/> 10-0398	21
G840	<input type="checkbox"/> 10-0395	18	<input type="checkbox"/> 10-0399	21
BA840	<input type="checkbox"/> 10-0396	18	<input type="checkbox"/> 10-0400	21

\*With Audible and Visible High Water Alarm

### (B) CONTROL PANEL

#### STANDARD FEATURES:

- Nema 4X Outdoor Rating
- Starting, Control, and Alarm Circuits
- 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 (three phase)
- Alternating Circuit (Duplex)
- Automatic Reversing Circuit
- High Water Alarm Light
- Internal Seal Leak Light
- HOA Switches and Pilot Light(s)
- Terminal Strips
- Thermal Cut-Out Circuit (three phase only)
- Padlock Hasp
- Capacitors/Start Relay (single phase)
- UL Listed

#### OPTIONS:

- Audible High Water Alarm
- Flasher for High Water Alarm Light
- Manual Reset of High Water Alarm
- Intrinsically Safe Relays
- Elapsed Time Meters
- Dry Auxiliary Contact
- For other options, consult factory

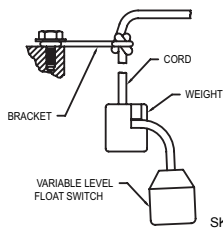
Maximum Temperature  
for Sewage  
130°F (54°C)

## (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

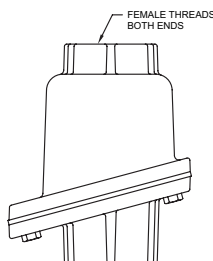


Note: All variable level float switches in this section are mechanically activated and do not contain mercury.

SK1328

## (D) CHECK VALVES

- 1 1/4" Cast Iron NPT Female  
 P/N 30-0163 WGT. 7.5
- 1 1/2" Cast Iron NPT Female  
 P/N 30-0164 WGT. 7.5
- 2" Cast Iron NPT Female  
 P/N 30-0152 WGT. 10.0



SK1330

## SIMPLEX REVERSING CONTROL BOXES\*

MODEL	AUTOMATIC		MANUAL	
	P/N	WGT.	P/N	WGT.
E840	<input type="checkbox"/> 10-0352	8	<input type="checkbox"/> 10-0360	7
I840	<input type="checkbox"/> 10-0352	8	<input type="checkbox"/> 10-0360	7
F840	<input type="checkbox"/> 10-0353	6	<input type="checkbox"/> 10-0361	5
J840	<input type="checkbox"/> 10-0353	6	<input type="checkbox"/> 10-0361	5
G840	<input type="checkbox"/> 10-0354	12	<input type="checkbox"/> 10-0362	5
BA840	<input type="checkbox"/> 10-0355	12	<input type="checkbox"/> 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

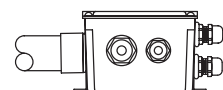
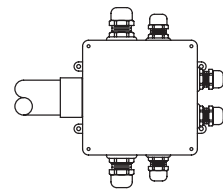
5 Holes with Seals for (1) Power Cord, (1) Sensor Cord, (3) Float Switch Cords.

- 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



SK1331