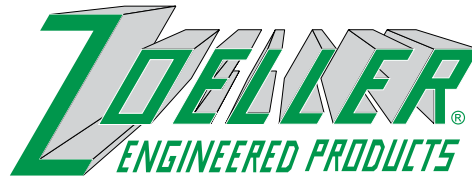


"QUALITY PUMPS SINCE 1939"

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



SECTION: Z4.10.210  
ZM1288  
0808  
Supersedes  
0605

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 Series 6840 GRINDER PUMP

## FEATURES:

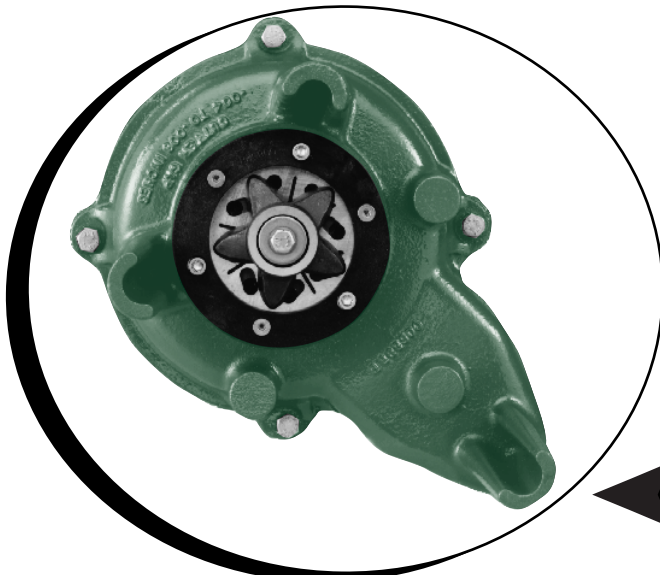
- Durable Heavy Duty Finned Cast Iron Construction.
- 2 HP, 60 Hz, 3450 RPM.
- Corrosion resistant powder coated epoxy finish.
- Oil-Filled - Hermetically Sealed Motor with Class F Insulation.
- Hardened Stainless Steel Cutter and Disc.
- Cutters Protected from Abrasive Solids.
- Cutters can automatically alternate direction to enhance blade life and free hang-ups. (automatic or manual)
- 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.

## PUMP SYSTEMS AND REVERSING CONTROLS

### 6840 SERIES



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



Product may not be exactly as pictured.

# GRINDER SYSTEMS

| <b>(A) GRINDER MODEL - 6840 2 HP, 1 1/4" N.P.T. VERTICAL DISCHARGE - 20 FT. CORDS</b> |      |        |       |          |      |
|---|------|--------|-------|----------|------|
| P/N   | WGT. | MODEL  | VOLTS | PH       | AMP  |
| <input type="checkbox"/> 6840-0004  | 137  | E6840  | 230   | 1 $\phi$ | 17.2 |
| <input type="checkbox"/> 6840-0005  | 137  | I6840  | 200   | 1 $\phi$ | 20.0 |
| <input type="checkbox"/> 6840-0006  | 132  | F6840  | 230   | 3        | 10.8 |
| <input type="checkbox"/> 6840-0007  | 132  | J6840  | 200   | 3        | 12.3 |
| <input type="checkbox"/> 6840-0008  | 132  | G6840  | 460   | 3        | 5.5  |
| <input type="checkbox"/> 6840-0009  | 132  | BA6840 | 575   | 3        | 4.5  |

$\square$  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>(B) CONTROL PANELS</b> |                                   |      |                                   |      |
|---------------------------|-----------------------------------|------|-----------------------------------|------|
| <b>SIMPLEX NEMA 4X</b>    |                                   |      | <b>DUPLEX NEMA 4X</b>             |      |
| MODEL                     | P/N                               | WGT. | P/N                               | WGT. |
| E or I 6840               | <input type="checkbox"/> 10-0393  | 15   | <input type="checkbox"/> 10-0397  | 21   |
| E or I 6840               | <input type="checkbox"/> 10-0420* | 17   | <input type="checkbox"/> 10-0512* | 23   |
| F or J 6840               | <input type="checkbox"/> 10-0394  | 18   | <input type="checkbox"/> 10-0398  | 21   |
| G6840                     | <input type="checkbox"/> 10-0395  | 18   | <input type="checkbox"/> 10-0399  | 21   |
| BA6840                    | <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
- Flasher for High Water Alarm Light
- Manual Reset of High Water Alarm
- Intrinsically Safe Relays
- Manual Reversing Switch
- Elapsed Time Meters
- Dry Auxiliary Contact
- For other options, consult factory

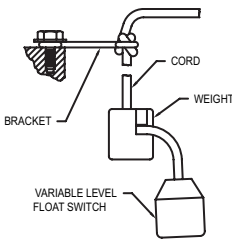
Maximum Temperature  
for Sewage  
130°F (54°C)

**(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**

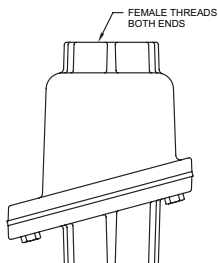
- 3 Switches with Weights and Brackets  
 P/N 10-0329 WGT. 10.0
- 4 Switches with Weights and Brackets  
 P/N 10-0330 WGT. 14.0



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. |
| E6840  | <input type="checkbox"/> 10-0352 | 8    | <input type="checkbox"/> 10-0360 | 7    |
| I6840  | <input type="checkbox"/> 10-0352 | 8    | <input type="checkbox"/> 10-0360 | 7    |
| F6840  | <input type="checkbox"/> 10-0353 | 6    | <input type="checkbox"/> 10-0361 | 5    |
| J6840  | <input type="checkbox"/> 10-0353 | 6    | <input type="checkbox"/> 10-0361 | 5    |
| G6840  | <input type="checkbox"/> 10-0353 | 12   | <input type="checkbox"/> 10-0362 | 5    |
| BA6840 | <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 6840 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 6840 by using base adapter.

**Specify when ordering.**

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

**SIMPLEX**

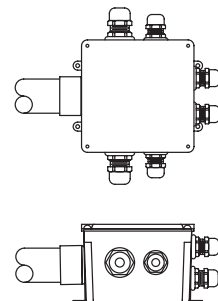
5 Holes with Seals for (1) Power Cord, (1) Sensor Cord, (3) Float Switch Cords.

- 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

**(F) INDOOR BASIN, COVER, AND HARDWARE - PREPACKAGED STANDARD EQUIPMENT**

- Fiberglass Basin
- Rust Resistant Steel Cover(s) (epoxy coated only)
- Inspection Plate
- Individual Pump Covers
- 3" Adaptaflex Vent Seal
- 1/4" Adaptaflex Discharge Pipe Seal(s)
- Cord Seal(s)
- 1-4" Rubber Inlet Pipe Seal
- Pump Support Hardware
- 1/4" Check Valve(s)
- Ball Valve(s)

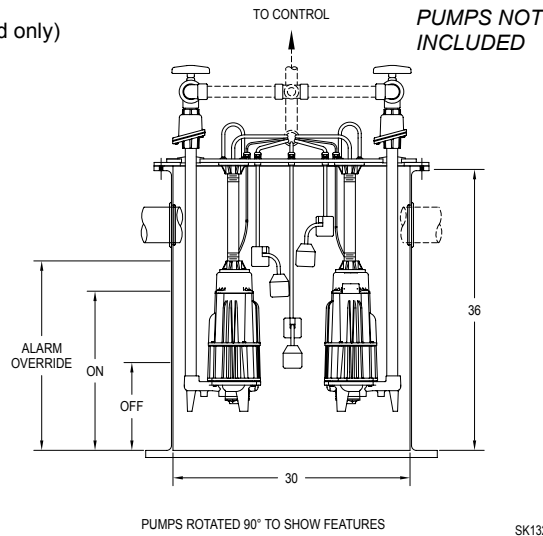
**SIMPLEX**

□ 24" x 36" P/N 32-0005 WGT. 107

**DUPLEX**

□ 30" x 36" P/N 32-0006 WGT. 154  
3 Float System

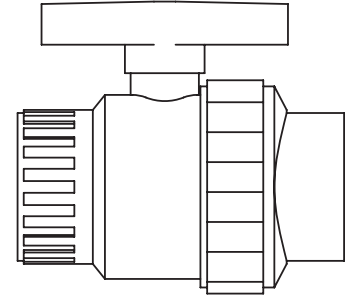
□ 30" x 36" P/N 32-0007 WGT. 154  
4 Float System



SK1326

**(I) BALL VALVE**

- 1/4" IPS  
□ P/N 30-0165 WGT. 2.0
- 1/2" IPS  
□ P/N 30-0166 WGT. 2.0
- 2" IPS  
□ P/N 30-0167 WGT. 2.5



SK1333

**(G) OUTDOOR BASIN, COVER, AND RAIL SYSTEM ASSEMBLIES - STANDARD EQUIPMENT**

- 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
- 1' Pull Rod
- 8' SS Lifting Cable for basin depths to 84" (12' SS Lifting Cable for basin depths of 96")
- 1/4" PVC Ball Valve(s)
- 1/4" C.I. Check Valve(s)
- 1-4" Rubber Inlet Pipe Seal - Field Installed
- Fiberglass Cover

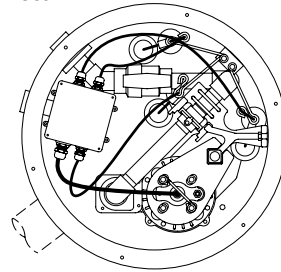
**SIMPLEX**

- 24" x 48" P/N 33-0022 WGT. 204
- 24" x 60" P/N 33-0023 WGT. 217
- 24" x 72" P/N 33-0024 WGT. 231
- 24" x 84" P/N 33-0057 WGT. 262
- 24" x 96" P/N 33-0025 WGT. 275

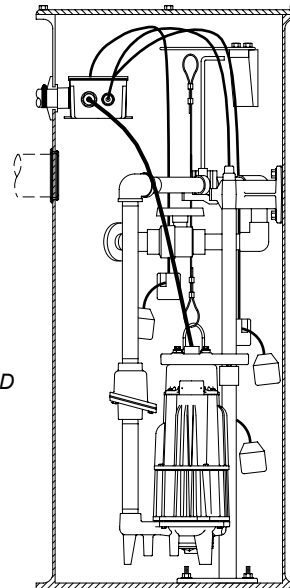
**DUPLEX**

- 36" x 48" P/N 33-0034 WGT. 364
- 36" x 60" P/N 33-0035 WGT. 386
- 36" x 72" P/N 33-0036 WGT. 469
- 36" x 84" P/N 33-0059 WGT. 496
- 36" x 96" P/N 33-0037 WGT. 522

**OPTIONS:** • All SS Fitted (Rail Supports)



PUMP NOT INCLUDED

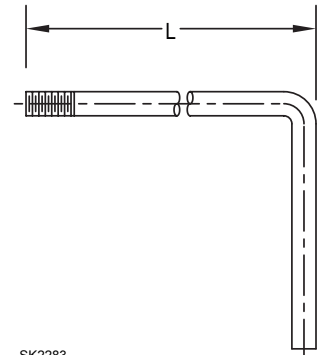


SK1607

• Larger Diameter or Deeper Basins (Allow for Overhead Clearance)

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

- 1 Ft. "L"  
□ P/N 39-0069 WGT. 0.5
- 2 1/2 Ft. "L"  
□ P/N 39-0006 WGT. 1.0
- 3 1/2 Ft. "L"  
□ P/N 39-0007 WGT. 1.5
- 4 1/2 Ft. "L"  
□ P/N 39-0008 WGT. 1.5
- 5 1/2 Ft. "L"  
□ P/N 39-0009 WGT. 2.0



SK2283

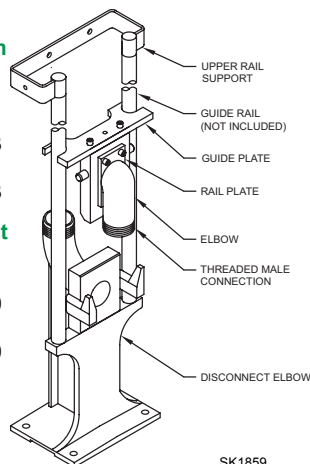
**(H) RAIL SYSTEMS - (FIELD INSTALLED)**

**E-Z out Rail System for 1/4" pump discharges (Rail System discharge is 2" NPT male thread)**

- Galvanized Fitted**  
□ P/N 39-0087 WGT. 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**

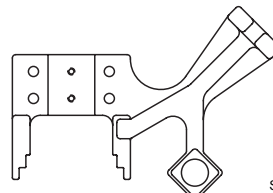
**BASIN DEPTH**

- 48" P/N 39-0054 WGT. 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.

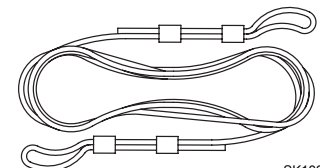
- P/N 39-0070 WGT. 11



SK1626

**(K) SS LIFTING CABLE (Field Installed Systems)**

- 8 Ft.**  
□ P/N 39-0031 WGT. 1.0
- 12 Ft.**  
□ P/N 39-0032 WGT. 1.0
- 16 Ft.**  
□ P/N 39-0033 WGT. 1.0
- 20 Ft.**  
□ P/N 39-0034 WGT. 1.0
- 24 Ft.**  
□ P/N 39-0035 WGT. 1.0



SK1335

# PREPACKAGED AND JOB READY SYSTEMS

| SIMPLEX                        |               | INDOOR | DUPLEX                         |               |
|--------------------------------|---------------|--------|--------------------------------|---------------|
| <b>REQ.</b>                    |               |        | <b>REQ.</b>                    |               |
| 1 Grinder                      | P/N _____ (A) |        | 2 Grinders                     | P/N _____ (A) |
| 1 Simplex Control Panel        | P/N _____ (B) |        | 1 Duplex Control Panel         | P/N _____ (B) |
| 1 Variable Level Fl. Sw. Assm. | P/N _____ (C) |        | 1 Variable Level Fl. Sw. Assm. | P/N _____ (C) |
| 1 Basin, Cover and Hardware    | P/N _____ (F) |        | 1 Basin, Cover and Hardware    | P/N _____ (F) |

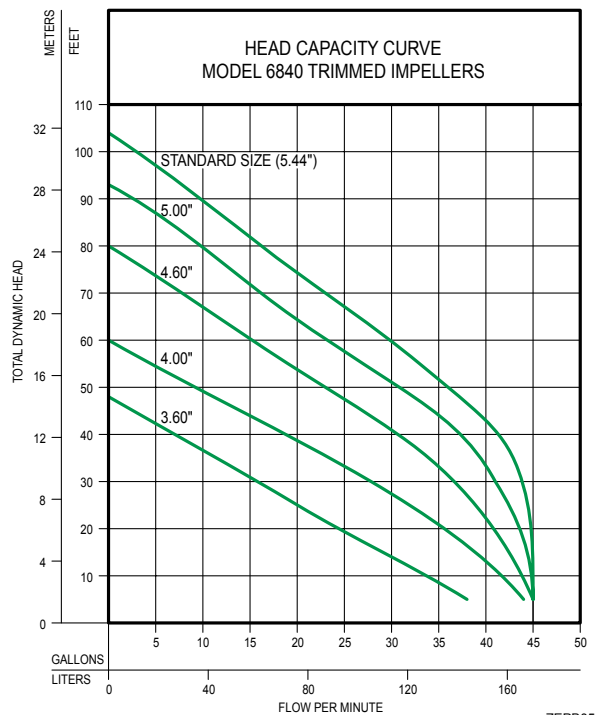
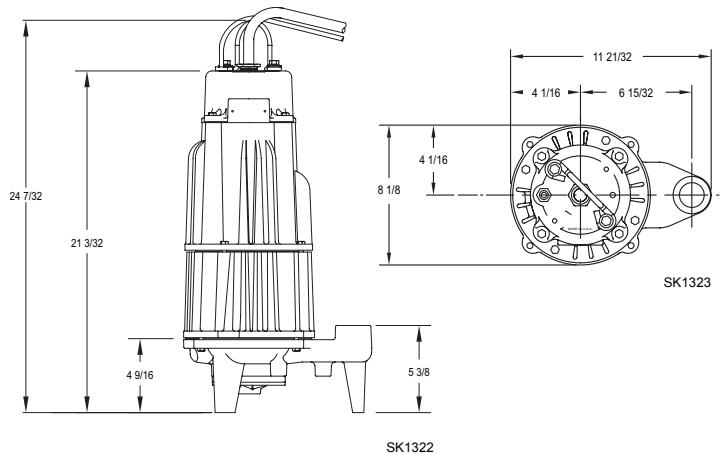
| SIMPLEX                        |               | OUTDOOR | DUPLEX                         |               |
|--------------------------------|---------------|---------|--------------------------------|---------------|
| <b>REQ.</b>                    |               |         | <b>REQ.</b>                    |               |
| 1 Grinder                      | P/N _____ (A) |         | 2 Grinders                     | P/N _____ (A) |
| 1 Simplex Control Panel        | P/N _____ (B) |         | 1 Duplex Control Panel         | P/N _____ (B) |
| 1 Variable Level Fl. Sw. Assm. | P/N _____ (C) |         | 1 Variable Level Fl. Sw. Assm. | P/N _____ (C) |
| 1 J-Box                        | P/N _____ (E) |         | 1 J-Box                        | P/N _____ (E) |
| 1 Basin, Cover and Rail System | P/N _____ (G) |         | 1 Basin, Cover and Rail System | P/N _____ (G) |

## FIELD MOUNT SYSTEMS

| SIMPLEX                           |               |
|-----------------------------------|---------------|
| <b>REQ.</b>                       |               |
| 1 Grinder                         | P/N _____ (A) |
| 1 Simplex Control Panel           | P/N _____ (B) |
| 1 Variable Level Fl. 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 S.S. Lifting Cable              | P/N _____ (K) |

| DUPLEX                            |               |
|-----------------------------------|---------------|
| <b>REQ.</b>                       |               |
| 2 Grinders                        | P/N _____ (A) |
| 1 Duplex Control Panel            | P/N _____ (B) |
| 1 Variable Level Fl. 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 S.S. 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.

\*\* 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

Manufacturers of... **QUALITY PUMPS SINCE 1939**