810-815 SERIES
PROGRESSING CAVITY GRINDER PUMP MODELS
810 - 1 HP
815 - 2 HP

FEATURES:
• Finned Class 30 Cast Iron Construction.
• Corrosion Resistant Powder Coated Epoxy Finish.
• Discharge Size - 1¼" NPT.
• 1 & 2 HP, 60 Hz, 1725 RPM.
  Model 810 - 1 HP, 230 Volts/1 Ph.
  Model 815 - 2 HP, 230 Volts/1 Ph.
• UL Listed 20 ft. 3-wire neoprene cord with 15 amp plug.
• Oil-Filled - Hermetically Sealed Motor with Class B Windings.
• Hardened Stainless Steel Cutter and Disc, Rockwell C55-60.
• Stainless Steel Hydraulic Pump Rotor.
• Pressure Relief Valve.
• Upper and Lower Ball Bearing Construction.
• Carbon/Ceramic mechanical seal.
• Integral Thermal Overload Protection with Automatic Reset.
• SS Mounting Stand for free standing installation.
• Preassembled Systems Available.

Product may not be exactly as pictured.
(A) **GRINDER**

**STANDARD FEATURES:**
- 1¼" NPT Discharge
- Carbon/Ceramic Tandem Seals
- Thermal Overload protection
- Hydraulic SS Rotor and Buna-n Stator
- Stainless Steel Cutter Plate / Cutter
- Stainless Steel Shaft
- Stainless Steel Hardware
- Corrosion resistant powder coated epoxy paint
- 20 ft. Power Cord Cord

**OPTIONS:**
- □ 25' Long Cords
- □ 35' Long Cords
- □ 50' Long Cords

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**ELECTRICAL - CONTROL / ALARM / FLOATS / JUNCTION BOX (SELECT 1 OF THE 3 COLUMNS)**

### QWIK BOX w/ FLOAT SWITCH

(B) **ALARM PANEL**
- □ P/N 10-0623 Indoor/Outdoor high water alarm with 15' control switch.
- □ P/N 10-0126 NEMA 4X high water alarm with 15' control switch and dry contact.
- □ P/N 10-1494 Indoor high water alarm with 15' control switch.

(C) **PUMP SWITCH & WEIGHT - 1 pump switch required**
Single piggy-back type 230 volt 13 amp
- □ P/N 10-0035 with 15' cord
- □ P/N 10-0689 weight for alarm float (Indoor Systems only)

(D) **JUNCTION BOX - 1 required**
- □ P/N 10-0580 Qwik-Box, NEMA 4X with 230 volt receptacle

### PLUGGER PANEL

(B) **CONTROL PANEL**
- □ P/N 10-2006 Plugger panel, NEMA 4X with high water alarm and 230 volt receptacle.

(C) **FLOAT SWITCHES - 2 required**
- Pump: One pump switch
- Alarm: One control switch
- □ P/N 10-0706 piggy-back pump switch with 20' cord
- □ P/N 10-0311 piggy-back pump switch with 25' cord
- □ P/N 10-1956 piggy-back pump switch with 35' cord
- □ P/N 10-0744 mechanical control switch with 20' cord
- □ P/N 10-1877 mechanical control switch with 25' cord
- □ P/N 10-1878 mechanical control switch with 35' cord

(D) **JUNCTION BOX**
- J-Box not recommended with this type control.

### SIMPLEX PANEL

(B) **CONTROL PANEL**
- □ P/N 10-2008 Simplex panel, Model E810 pump, NEMA 4X, with high water alarm and pump circuit breaker, less float switches.
- □ P/N 10-1212 Simplex panel, Model E815 pump, 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 10-0706 piggy-back pump switch with 20' cord
- □ P/N 10-0311 piggy-back pump switch with 25' cord
- □ P/N 10-1956 piggy-back pump switch with 35' cord
- □ P/N 10-0744 mechanical control switch with 20' cord
- □ P/N 10-1877 mechanical control switch with 25' cord
- □ P/N 10-1878 mechanical control switch with 35' cord

(D) **JUNCTION BOX - optional**
- □ P/N 10-2145 NEMA 4X with 3 cord seals and conduit connection.

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(A) **810 & 815 PROGRESSING CAVITY GRINDER**

**1 OR 2 HP**

1¼" N.P.T. DISCHARGE

<table>
<thead>
<tr>
<th>P/N</th>
<th>WGT.</th>
<th>MODEL</th>
<th>VOLTS</th>
<th>PH</th>
<th>HP</th>
<th>AMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>810-0004</td>
<td>88</td>
<td>E810</td>
<td>230</td>
<td>1</td>
<td>1</td>
<td>6.0</td>
</tr>
<tr>
<td>815-0004</td>
<td>91</td>
<td>E815</td>
<td>230</td>
<td>1</td>
<td>2</td>
<td>10.5</td>
</tr>
</tbody>
</table>

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

Note: All variable level float switches in this section are mechanically activated and do not contain mercury.
**E) INDOOR AND OUTDOOR PACKAGED SYSTEMS - PUMP & CONTROLS NOT INCLUDED**

### INDOOR SYSTEM
**FIBERGLASS BASIN**
Pump suspended from steel cover

- P/N 32-0029 24" X 36"

**SQUARE GUIDERAIL SYSTEM**
- 1¼" Adapta fl
- 3" Adapta fl
- Pump Plate
- Inspection Plate
- Rust Resistant Steel Cover (epoxy coated)
- Fiberglass Basin
- Ball Valve - Field Installed
- Installed 1¼" NPT Brass Check Valve
- Pump Support Hardware
- 1-4" Fiberglass Hub with rubber grommet
- Cord Seal
- 1 1/4" PVC Slip X Slip Ball Valve
- 1¼" PVC Anti-siphon Device
- PVC Check Valve
- PVC Float Tree
- 1-4" Rubber Inlet Pipe Seal (Field Inst.)
- Fiberglass Cover

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### OUTDOOR SYSTEMS

#### OUTDOOR SYSTEMS w/ SQUARE GRS
**FIBERGLASS BASIN & COVER**

- P/N 33-0491 24" X 48"
- P/N 33-0492 24" X 60"
- P/N 33-0493 24" X 72"

**SQUARE GUIDE RAIL SYSTEM**
- 1¼" Adapta fl
- 1¼" PVC Discharge Pipe from Disconnect
- 1¼" Galvanized pump discharge piping to Fiberglass Basin with Anti-flotation Ring
- 1¼" PVC Anti-siphon Device
- PVC Check Valve
- PVC Float Tree
- 1-4" Rubber Inlet Pipe Seal (Field Inst.)
- Fiberglass Cover

#### OUTDOOR SYSTEMS w/ FLEX HOSE DC
**FIBERGLASS BASIN & COVER**

- P/N 35-0006 24" X 48"
- P/N 35-0007 24" X 60"
- P/N 35-0008 24" X 72"

**1.25" FLEXIBLE HOSE**
- P/N 30-0165 1.25" PVC
- P/N 30-0223 1.25" NPT Brass
- P/N 018386
- P/N 35-0008 24" X 72"

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**F) ACCESSORIES FOR FIELD ASSEMBLED SYSTEMS**

**FLEX-HOSE DISCHARGE ASM.**
- P/N 10-2038 w/30" hose

**SQUARE GUIDE RAIL SYSTEM**
- P/N 39-0106 - 48" Deep Basin
- P/N 39-0107 - 60" Deep Basin
- P/N 39-0108 - 72" Deep Basin
- P/N 39-0070 - Rail Extension Bracket

**SS LIFTING CABLES AND ROD**
- P/N 39-0031 12' Cable
- P/N 39-0032 1' Rod

**PREWIRED CONDUIT**
(10-0580 Qwik Box Required)
- 5100-0016 25'
- 5100-0017 35'
- 5100-0018 50'

**GALVANIZED 1.25" DISCHARGE ELBOW**
- P/N 018386

**CHECK VALVE**
- P/N 30-0223 1.25" NPT Brass

**BALL VALVE**
- P/N 30-0165 1.25" PVC

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### Prepackaged and Job Ready Systems

**Indoor**

<table>
<thead>
<tr>
<th>REQ.</th>
<th>810 or 815 Grinder</th>
<th>P/N ________ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alarm Panel</td>
<td>P/N ________ (B)</td>
</tr>
<tr>
<td>1</td>
<td>Piggyback Pump Switch</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Weight for Alarm Float</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Basin, Cover and Hardware</td>
<td>P/N ________ (E)</td>
</tr>
</tbody>
</table>

**Outdoor**

<table>
<thead>
<tr>
<th>REQ.</th>
<th>810 or 815 Grinder</th>
<th>P/N ________ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Control Panel/Alarm System</td>
<td>P/N ________ (B)</td>
</tr>
<tr>
<td>1</td>
<td>Piggyback Pump Switch</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Control Switch (if required)</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Control Switch (if required)</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Junction Box (if required)</td>
<td>P/N ________ (D)</td>
</tr>
<tr>
<td>1</td>
<td>Package Basin Assembly</td>
<td>P/N ________ (E)</td>
</tr>
</tbody>
</table>

### Field Mount Systems

**Simplex**

<table>
<thead>
<tr>
<th>REQ.</th>
<th>810 or 815 Grinder</th>
<th>P/N ________ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Control Panel / Alarm System</td>
<td>P/N ________ (B)</td>
</tr>
<tr>
<td>1</td>
<td>Piggyback Pump Switch</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Control Switch (if required)</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Weight for Alarm Float (if required)</td>
<td>P/N ________ (C)</td>
</tr>
<tr>
<td>1</td>
<td>Junction Box (Optional)</td>
<td>P/N ________ (D)</td>
</tr>
<tr>
<td>1</td>
<td>Optional Accessories</td>
<td>P/N ________ (E)</td>
</tr>
</tbody>
</table>

**Pump Performance Curve**

**Model 810/815**

**922** Packaged Systems

Refer to FM2370 for Packaged Fiberglass or Poly-ribbed Basin Assemblies for the models 810 and 815.