

MODEL 840 REVERSING GRINDER SYSTEM

A) GRINDER MODEL - 840 2 HP, 1-1/4" N.P.T. VERTICAL DISCHARGE - 20' (6 m) CORDS					
P/N	WGT.	MODEL	VOLTS	PH	AMP
☐ 840-0004	137 lb (62.1 kg)	E840	230	1 ϕ	17.2
☐ 840-0005	137 lb (62.1 kg)	I840	200	1 ϕ	20.0
☐ 840-0006	132 lb (59.9 kg)	F840	230	3	10.8
☐ 840-0007	132 lb (59.9 kg)	J840	200	3	12.3
☐ 840-0008	132 lb (59.9 kg)	G840	460	3	5.5
☐ 840-0009	132 lb (59.9 kg)	BA840	575	3	4.5

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

MODEL 840 STANDARD FEATURES:

- Reversible cutter action manual / auto**
- 1-1/4" NPT vertical discharge
- Carbon/ceramic tandem seals
- Thermal sensors** (overload on 1 Ph)
- Moisture probes**
- Ductile iron vortex impeller
- Stainless steel cutter and plate (R-C 55-60)
- Stainless steel shaft
- Stainless steel lifting bail
- Corrosion-resistant, powder coated epoxy paint
- 20' (6 m) power cord - 20' (6 m) sensor cord
- cCSAus Certified

OPTIONS:

- ☐ Extended cord lengths
- ☐ Bronze vortex impeller
- ☐ Anti-siphon device

**requires circuit in control panel to function

B) CONTROL PANELS					
SIMPLEX - NEMA 4 X			DUPLEX - NEMA 4X		
MODEL	P/N	WGT.	P/N	WGT.	
E or I840	☐ 10-0393	15 lb (6.8 kg)	☐ 10-0397	21 lb (9.5 kg)	
E or I840	☐ 10-0420*	17 lb (7.7 kg)	☐ 10-0512*	23 lb (10.4 kg)	
F or J840	☐ 10-0394	18 lb (8.2 kg)	☐ 10-0398	21 lb (9.5 kg)	
G840	☐ 10-0395	18 lb (8.2 kg)	☐ 10-0399	21 lb (9.5 kg)	
BA840	☐ 10-0396	18 lb (8.2 kg)	☐ 10-0400	21 lb (9.5 kg)	

*With Audible and Visible High Water Alarm

B) CONTROL PANEL STANDARD FEATURES:

- NEMA 4X outdoor rating
- Automatic reversing circuit
- Starting, control, and alarm circuits
- Thermal cut-out circuit (3 Ph only)
- Circuit breaker and rated motor contactor (1 Ph)
- Capacitors and motor starting relay on single phase
- Motor protective switch (circuit breaker / phase adjustable overloads) and rated motor contactor (3 Ph)
- Alternating circuit (duplex)
- High water alarm light
- Internal seal leak light
- HOA switches and pilot light(s)
- Terminal strips
- Padlock hasp

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

C) VARIABLE LEVEL FLOAT SWITCHES

INDOOR SYSTEM

3 Switches and weights

- ☐ P/N 10-0347 WGT. 9.5 lb (4.3 kg)

4 Switches and weights

- ☐ P/N 10-0348 WGT. 13 lb (5.9 kg)

OUTDOOR SYSTEM

Switches with pipe clamps, 3 required

- ☐ P/N 10-0744 20' WGT. 2 lb (kg)
- ☐ P/N 10-1878 35' WGT. 3 lb (kg)
- ☐ P/N 10-1879 50' WGT. 4.0 lb (kg)

SIMPLEX REVERSING CONTROL BOXES*				
AUTOMATIC			MANUAL	
MODEL	P/N	WGT.	P/N	WGT.
E840	☐ 10-0352	8 lb (3.6 kg)	☐ 10-0360	7 lb (3.2 kg)
I840	☐ 10-0352	8 lb (3.6 kg)	☐ 10-0360	7 lb (3.2 kg)
F840	☐ 10-0353	6 lb (2.7 kg)	☐ 10-0361	5 lb (2.3 kg)
J840	☐ 10-0353	6 lb (2.7 kg)	☐ 10-0361	5 lb (2.3 kg)
G840	☐ 10-0353	12 lb (5.4 kg)	☐	Not available

*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.

D) 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 lb (1.1 kg) 3-float system
- ☐ P/N 10-4508 Simplex J-box

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 lb (1.1 kg) 3-float system
- ☐ P/N 10-0421 WGT. 2.5 lb (1.1 kg) 4-float system
- ☐ P/N 10-4509 Duplex J-box

E) 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
- 1-1/4" Adaptaflex discharge pipe seal(s)
- Cord seal(s)
- 1-4" rubber inlet pipe seal (field-installed)
- Pump support hardware
- 1-1/4" check valve(s)
- Ball valve(s)

SIMPLEX

- ☐ 24" x 36" (61 x 91 cm) P/N 32-0005 WGT. 107 lb (48.5 kg)

DUPLEX

- ☐ 30" x 36" (76 x 91 cm) P/N 32-0006 WGT. 154 lb (69.9 kg) 3-float system
- ☐ 30" x 36" (76 x 91 cm) P/N 32-0007 WGT. 154 lb (69.9 kg) 4-float system