

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



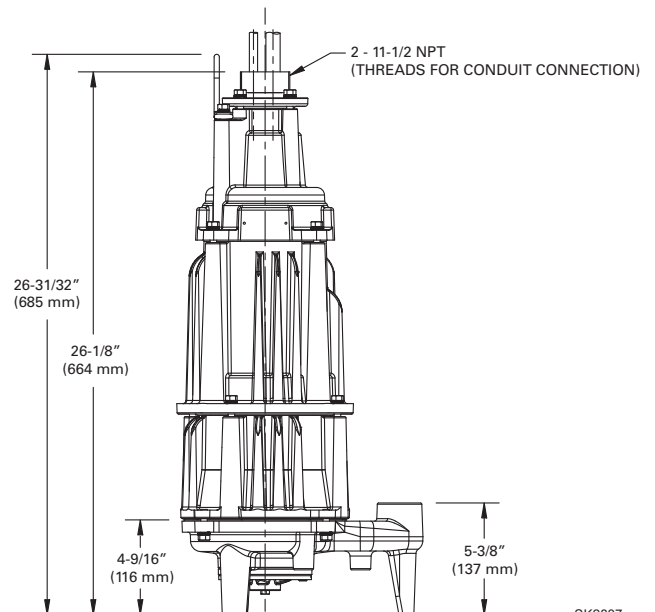
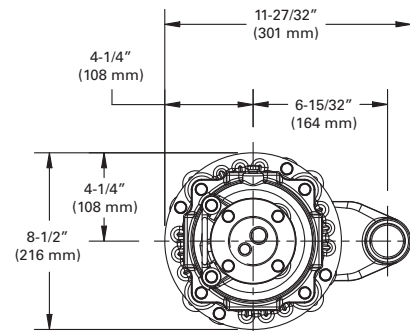
TECHNICAL DATA SHEET

EXPLOSION PROOF SERIES

Model X840/X841 Grinder Pumps
 Class I, Division 1, Groups C & D
 Class I, Zone 1, Groups IIA and IIB

PRODUCT SPECIFICATIONS

MOTOR	Horse Power	2
	Voltage	200 - 460
	Phase	1 or 3 Ph
	Hertz	60 Hz
	RPM	3450
	Type	Capacitor start / capacitor run or 3 Ph
	Insulation	Class F
	Amps	5.5 - 20.0
PUMP	Operation	Nonautomatic
	Discharge Size	1-1/4" NPT vertical
	Cord Length	20' (6 m) standard
	Cord Type	UL listed, SOOW
	Max. Head	125' (38.1 m)
	Max. Flow Rate	54 GPM (204 LPM)
	Max. Operating Temp.	104 °F (40 °C)
	Cooling	Oil filled
MATERIALS	Motor Protection	Auto reset thermal overload (1 Ph) or thermal sensor (3 Ph)
	Cap	Cast iron
	Motor Housing	Cast iron
	Adapter	Cast iron
	Pump Housing	Cast iron
	Upper Bearing	Ball bearing
	Lower Bearing	Ball bearing
	Mechanical Seals	Carbon/ceramic with stainless steel parts
	Impeller Type	Non-clogging vortex
	Impeller	Ductile iron
	Hardware	Stainless steel
	Motor Shaft	Stainless steel
	Square Rings	Neoprene
	Cutter	Hardened 440 C stainless steel, Rockwell C55-60

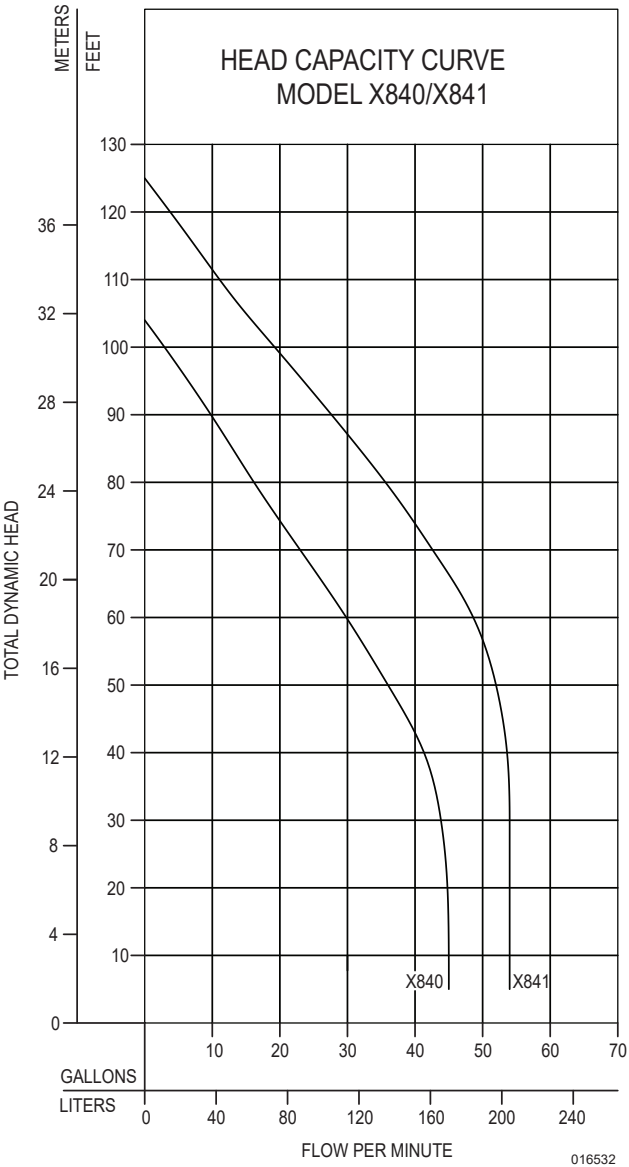


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TOTAL DYNAMIC HEAD FLOW PER MINUTE

MODEL		X840		X841	
Feet	Meters	Gal.	Liters	Gal.	Liters
5	1.5	45	170	54	204
10	3.0	45	170	54	204
20	6.1	45	170	54	204
30	9.1	44	167	54	204
40	12.2	42	159	54	204
50	15.2	36	136	52	197
60	18.3	30	114	49	185
70	21.3	23	87	43	163
80	24.4	16	61	36	136
90	27.4	10	38	28	106
100	30.5	3	11	19	72
110	33.5	--	--	11	42
120	36.6	--	--	4	15
Shut-off Head:		104 ft (31.7 m)		125 ft (38.1 m)	

016532



MODEL COMPARISON								
Model	Mode	Volts	Phase	Amps	HP	Hz	Lbs	Kg
IX840	Non	200	1	20.0	2	60	155	70
IX841	Non	200	1	20.0	2	60	155	70
EX840	Non	230	1	17.2	2	60	155	70
EX841	Non	230	1	17.2	2	60	155	70
JX840	Non	200	3	12.3	2	60	155	70
JX841	Non	200	3	12.3	2	60	155	70
FX840	Non	230	3	10.8	2	60	155	70
FX841	Non	230	3	10.8	2	60	155	70
GX840	Non	460	3	5.5	2	60	155	70
GX841	Non	460	3	5.5	2	60	155	70

Model X840 is a reversible grinder pump, and model X841 are single-direction grinder pump.



All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).

GRINDER SYSTEMS

GRINDER MODELS X840/X841 VERTICAL DISCHARGE - 20' (6 m) CORDS						
P/N	WGT.	MODEL	VOLTS	PH	AMP	
☐ 840-0064	155 lb (70.3 kg)	EX840	230	1*	17.2	
☐ 840-0065	155 lb (70.3 kg)	IX840	200	1*	20.0	
☐ 840-0066	151 lb (68.5 kg)	JX840	200	3	12.3	
☐ 840-0067	151 lb (68.5 kg)	FX840	230	3	10.8	
☐ 840-0068	151 lb (68.5 kg)	GX840	460	3	5.5	
☐ 841-0017	155 lb (70.3 kg)	EX841	230	1*	17.2	
☐ 841-0018	155 lb (70.3 kg)	IX841	200	1*	20.0	
☐ 841-0019	151 lb (68.5 kg)	JX841	200	3	12.3	
☐ 841-0020	151 lb (68.5 kg)	FX841	230	3	10.8	
☐ 841-0021	151 lb (68.5 kg)	GX841	460	3	5.5	

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

GRINDER STANDARD FEATURES:

- cCSAus rated Class I, Division 1, Groups C & D and Class Zone 1, Groups IIA & IIB Construction
- Tested to FM standards 3600 and 3615 by CSA
- Reversible cutter action manual/auto
- 1-1/4" NPT vertical discharge
- Carbon/ceramic tandem seals
- Thermal sensors** (overload on 1 Ph)
- Moisture probes
- Vortex impeller: Ductile iron
- 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

VARIABLE LEVEL FLOAT SWITCH ASSEMBLY

- 3 Switches with weights and brackets
- ☐ P/N 10-3237 WGT. 10 lb (4.5 kg)
- 4 Switches with weights and brackets
- ☐ P/N 10-3238 WGT. 14 lb (6.4 kg)

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

CONTROL PANELS						
SIMPLEX - NEMA 4 X				DUPLEX - NEMA 4X		
MODEL	P/N	WGT.		P/N	WGT.	
EX or IX840	☐ 23734-0001	35		☐ 24734-0001	35	
FX or JX840	☐ 234F4-0001	22		☐ 244F4-0001	22	
GX840	☐ 234D4-0001	22		☐ 244D4-0001	22	
EX or IX841	☐ 21734-0001	25		☐ 22734-0001	25	
FX or JX841	☐ 114F4-0001	20		☐ 124F4-0001	20	
GX841	☐ 114D4-0001	20		☐ 124D4-0001	20	

Order **(90104-0001)** Pivot Pak IS along with 1 of the following Pivot Series panels.

The Pivot Pak IS is a secondary box that connects to any existing control panel to convert that panel to have the intrinsically safe capabilities. For information see FM3555, Pivot Pak IS sales slick.

CONTROL PANEL STANDARD FEATURES:

- NEMA 4X enclosure with lockable hasp
- cULus and cCSAus certified to standard UL508
- Input power and float switch terminal block
- IEC rated motor contactors
- Control circuit powered by 115VAC, 60Hz
- Independent alarm circuit powered by 115VAC, 60Hz (can use separate power feed than control circuit)
- Separate control and alarm circuit fuses
- External red globe for alarms.
- Audible alarm horn is 95dB at 2' (0.6m).
- External alarm test and silence switch
- User interface buttons and leds
- Float status indicator LED indicators
- Float smart logic prioritizes pump operation
- Pump-Run LED indicators
- Non-simultaneous pump start
- Pump-run dry contact, normally open
- Form C auxiliary output dry contact for alarm conditions
- Smart HAND-OFF-AUTO (HOA)
- Alarms:
 - High water, High voltage, Disabled alarm circuit, Float fault, Continuous pump run, Service off timeout, Failed contactor
- Limited Warranty: 5 years

For other options, please consult factory.

STARTER KITS*		
P/N	Pump Model	Type
10-0380	X840, X841	Shipped Loose
*Starter kits needed if using existing panel and single phase (E or I model) grinder pumps		

OUTDOOR BASIN, COVER, AND RAIL SYSTEM ASSEMBLIES STANDARD EQUIPMENT

- Fiberglass basin with anti-flotation ring
- (2) Steel electrical couplings
- 2" PVC discharge pipe from disconnect
- 2" Adaptaflex discharge pipe seal
- Non-sparking Z-Rail® disconnect system
- 8' (2.4 m) stainless steel lifting cable
- 3/4" stainless steel rail pipe
- For basin depths to 84" (213 cm) [2' (3.7 m) stainless steel lifting cable for basin depths of 96" (244 cm)]
- 2" PVC ball valve(s)
- 2" cast iron check valve(s)
- 1-4" rubber inlet pipe seal (field-installed)
- Blank fiberglass cover with Zoeller imprint

SIMPLEX

- | | |
|---------------------------|---------------------------------------|
| □ 24" x 60" (61 x 152 cm) | P/N 33-0998
WGT. 189 lb (85.7 kg) |
| □ 24" x 72" (61 x 183 cm) | P/N 33-0999
WGT. 192 lb (87.1 kg) |
| □ 24" x 84" (61 x 213 cm) | P/N 33-1000
WGT. 213 lb (96.6 kg) |
| □ 24" x 96" (61 x 244 cm) | P/N 33-1001
WGT. 235 lb (106.5 kg) |

DUPLEX

- | | |
|---------------------------|---------------------------------------|
| □ 36" x 60" (91 x 152 cm) | P/N 33-1002
WGT. 393 lb (178.2 kg) |
| □ 36" x 72" (91 x 183 cm) | P/N 33-1003
WGT. 468 lb (212.2 kg) |
| □ 36" x 84" (91 x 213 cm) | P/N 33-1004
WGT. 533 lb (241.7 kg) |
| □ 36" x 96" (91 x 244 cm) | P/N 33-1005
WGT. 593 lb (268.9 kg) |

- Larger diameter or deeper basins
(Allow for overhead clearance)

PUMP NOT INCLUDED

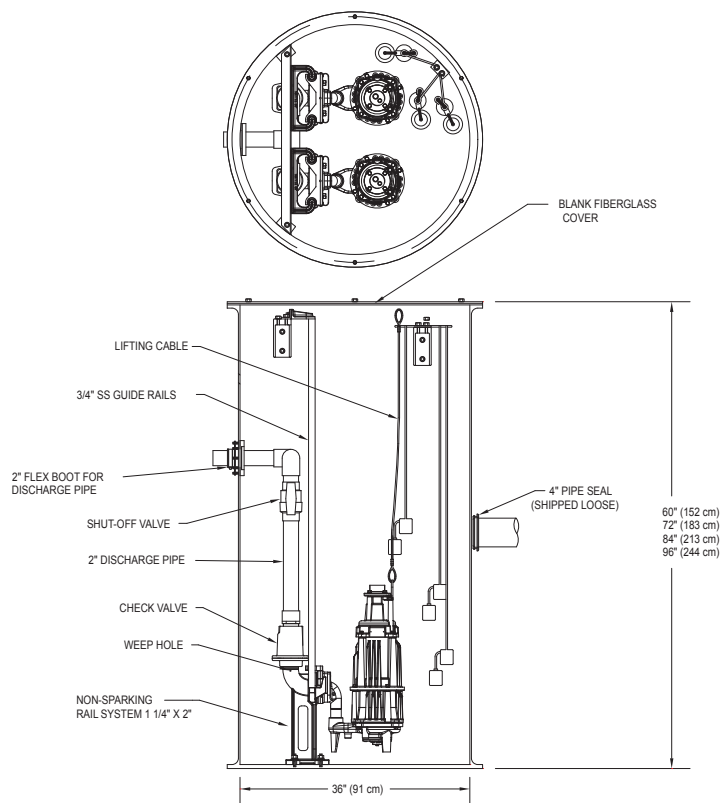
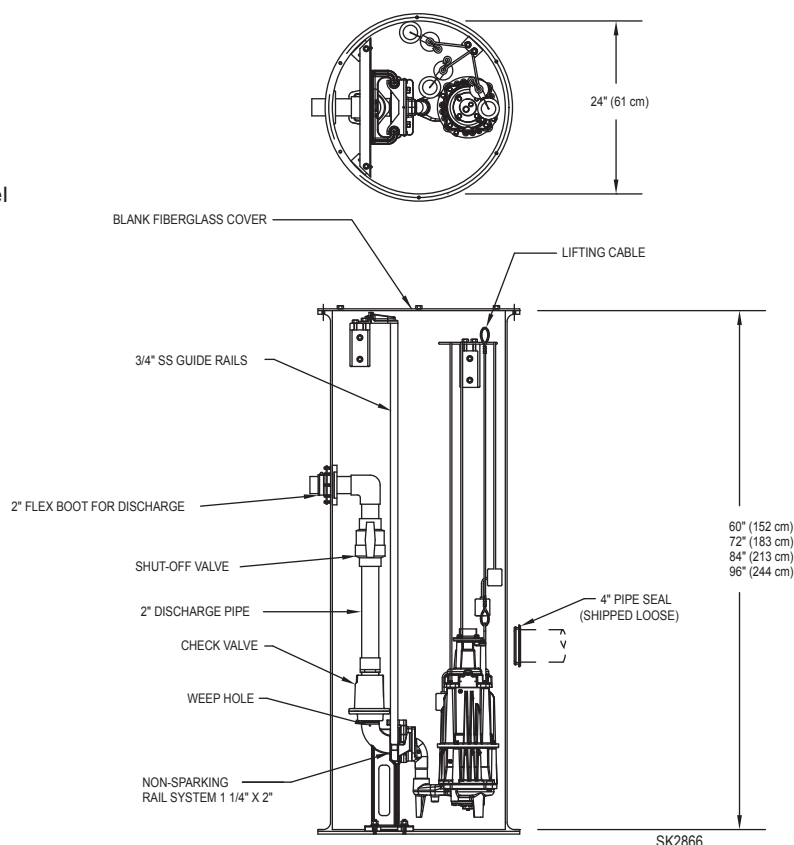
-- PREPACKAGED CHECKLIST --

SIMPLEX

- | | |
|--------------------------------|-----------|
| (1) Grinder pump | P/N _____ |
| (1) Simplex control panel | P/N _____ |
| (1) Float switch assembly | P/N _____ |
| (1) Prepackaged basin assembly | P/N _____ |

DUPLEX

- | | |
|--------------------------------|-----------|
| (2) Grinder pump | P/N _____ |
| (1) Duplex control panel | P/N _____ |
| (1) Float switch assembly | P/N _____ |
| (1) Prepackaged basin assembly | P/N _____ |



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