## **Electrical Diagrams**





312067D

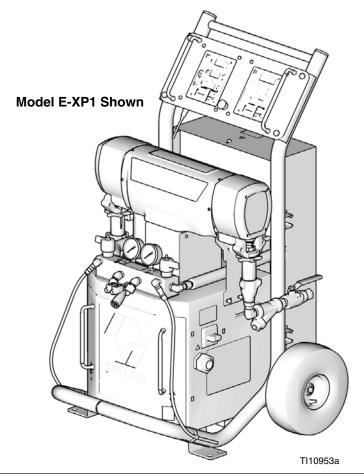
Electric, Heated, Plural Component Proportioner For spraying polyurethane foam and polyurea coatings. Not for use in explosive atmospheres.



#### **Important Safety Instructions**

Read all warnings and instructions in this manual and in manuals 312065 and 312066. Save all instruction manuals.

See page 3 for model information, including maximum working pressure and approvals.







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# **Supplied Manuals**

The following manuals are shipped with the Reactor<sup>™</sup> Proportioner. Refer to these manuals for detailed equipment information.

Order Part 15M334 for a compact disk of Reactor manuals translated in several languages.

Manuals are also available at www.graco.com.

Reactor Electric Proportioner - Operation				
Part	Description			
312065	Reactor Electric Proportioner, Operation Manual (English)			
Reactor Electric Proportioner - Repair/Parts				
Part	Description			
312066	Reactor Electric Proportioner, Repair-Parts Manual (English)			
Proportioning Pump				
Part	Description			
309577	Electric Reactor Displacement Pump Repair-Parts Manual (English)			

### **Models**

#### E-20 SERIES

Part, Series	Full Load Peak Amps*	Voltage (phase)	System	Primary Heater	Rate <b>♦</b> lb/min	` '	Maximum Fluid Working Pressure psi (MPa, bar)
259025, E	48	230V (1)	10,200	6,000	20 (9)	0.0104 (0.0395)	2000 (14, 140)
259030, E	24	400V (3)	10,200	6,000	20 (9)	0.0104 (0.0395)	2000 (14, 140)
259034, E	32	230V (3)	10,200	6,000	20 (9)	0.0104 (0.0395)	2000 (14, 140)

#### E-30 SERIES

Part, Series	Full Load Peak Amps*	Voltage (phase)	System Watts†	Primary Heater Watts	Rate <b>♦</b> lb/min	Approximate Output per Cycle (A+B) gal. (liter)	Maximum Fluid Working Pressure psi (MPa, bar)
259026, E	78	230V (1)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259031, E	34	400V (3)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259035, E	50	230V (3)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259057, E	100	230V (1)	23,000	15,300	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259058, E	62	230V (3)	23,000	15,300	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259059, E	35	400V (3)	23,000	15,300	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)

#### **E-XP1 SERIES**

Part, Series	Full Load Peak Amps*	Voltage (phase)	System Watts†	Primary Heater Watts	Max Flow Rate◆		Maximum Fluid Working Pressure psi (MPa, bar)
259024, E	69	230V (1)	15,800	10,200	1.0 (3.8)	0.0104 (0.0395)	2500 (17.2, 172)
259029, E	24	400V (3)	15,800	10,200	1.0 (3.8)	0.0104 (0.0395)	2500 (17.2, 172)
259033, E	43	230V (3)	15,800	10,200	1.0 (3.8)	0.0104 (0.0395)	2500 (17.2, 172)

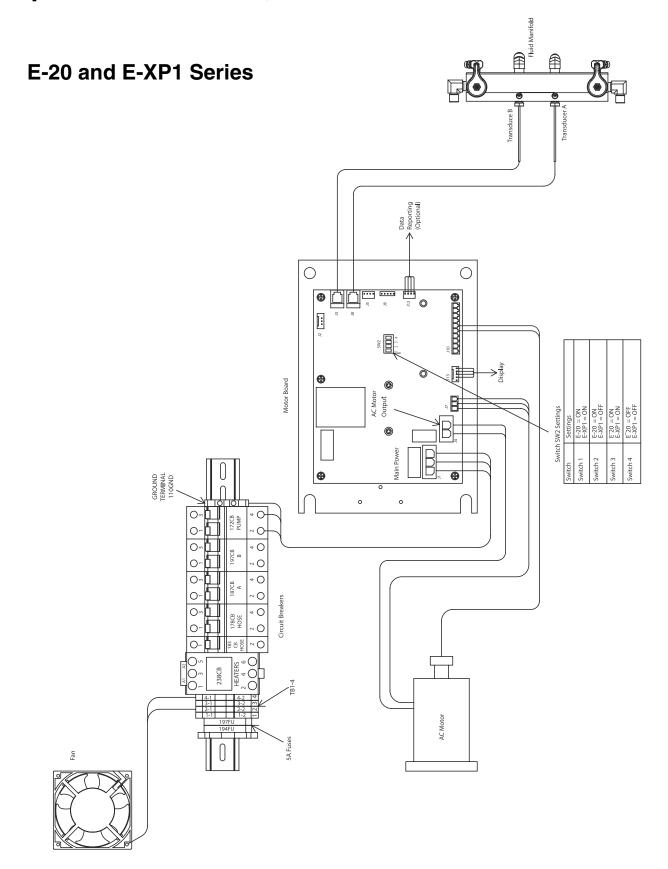
#### **E-XP2 SERIES**

Part, Series	Full Load Peak Amps*			Heater	Max Flow Rate <b>♦</b>	<b>`</b>	Maximum Fluid Working Pressure psi (MPa, bar)
259028, E	100	230V (1)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)
259032, E	35	400V (3)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)
259036, E	62	230V (3)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)

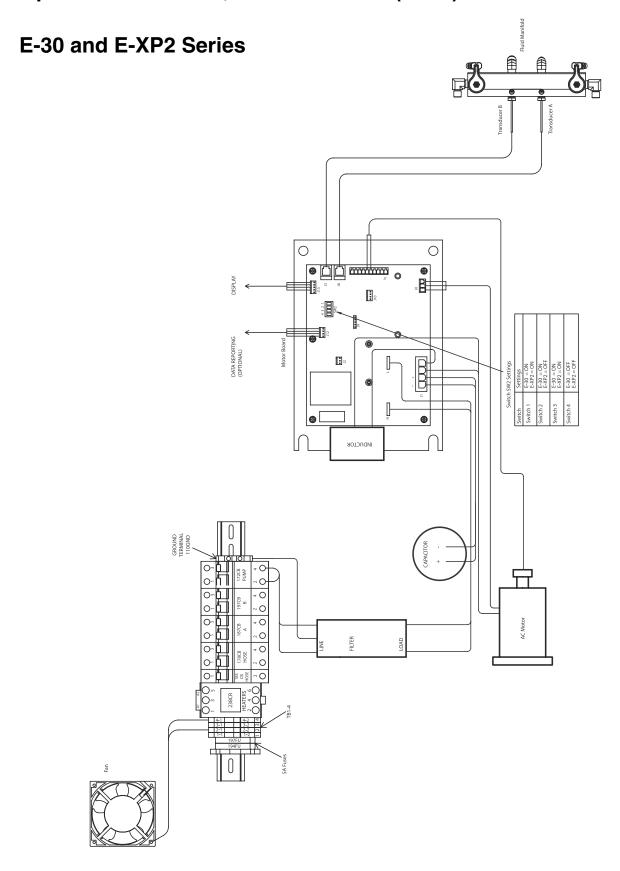
<sup>\*</sup> Full load amps with all devices operating at maximum capabilities. Fuse requirements at various flow rates and mix chamber sizes may be less.

- † Total system watts, based on maximum hose length for each unit:
- E-20 and E-XP1 series, 210 ft (64 m) maximum heated hose length, including whip hose.
- E-30 and E-XP2 series, 310 ft (94.5 m) maximum heated hose length, including whip hose.
- ◆ Maximum flow rate given for 60 Hz operation. For 50 Hz operation, maximum flow rate is 5/6 of 60 Hz maximum flow.

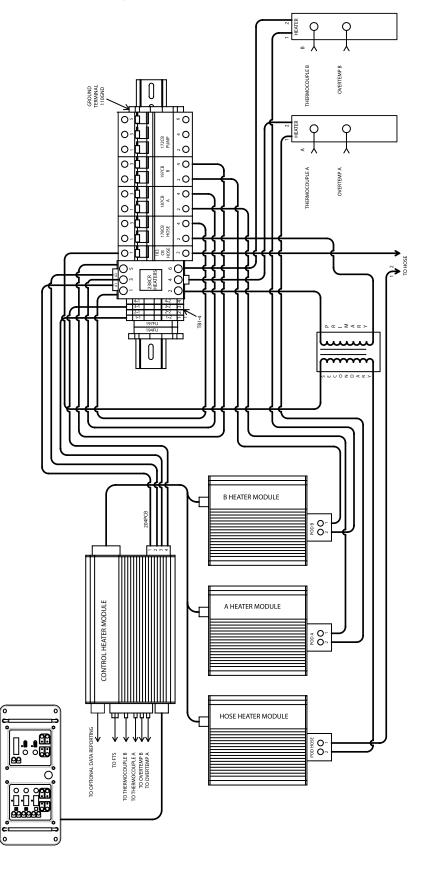
# **Simplified Schematics, Motor Controls**



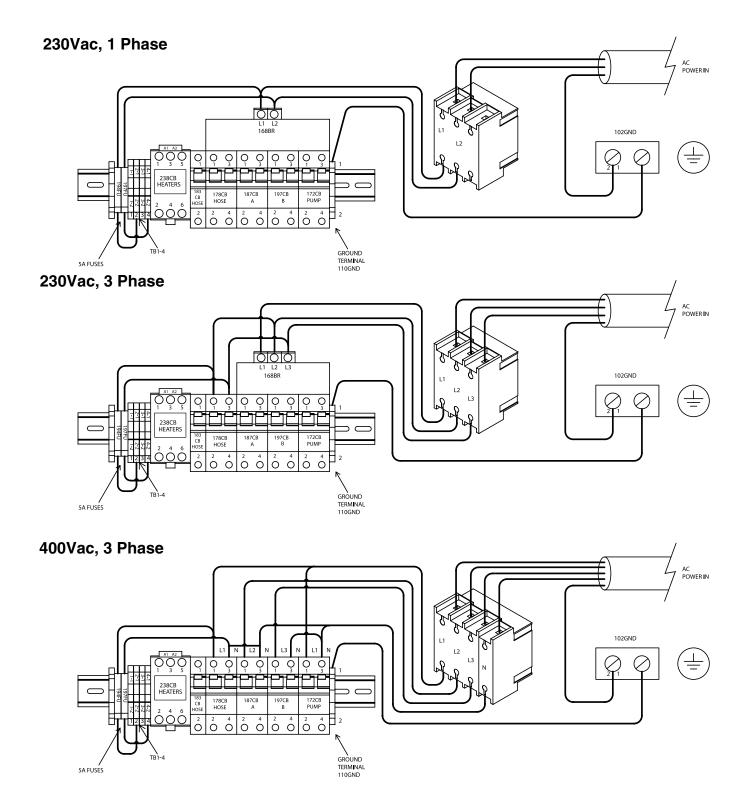
## **Simplified Schematics, Motor Controls (cont.)**



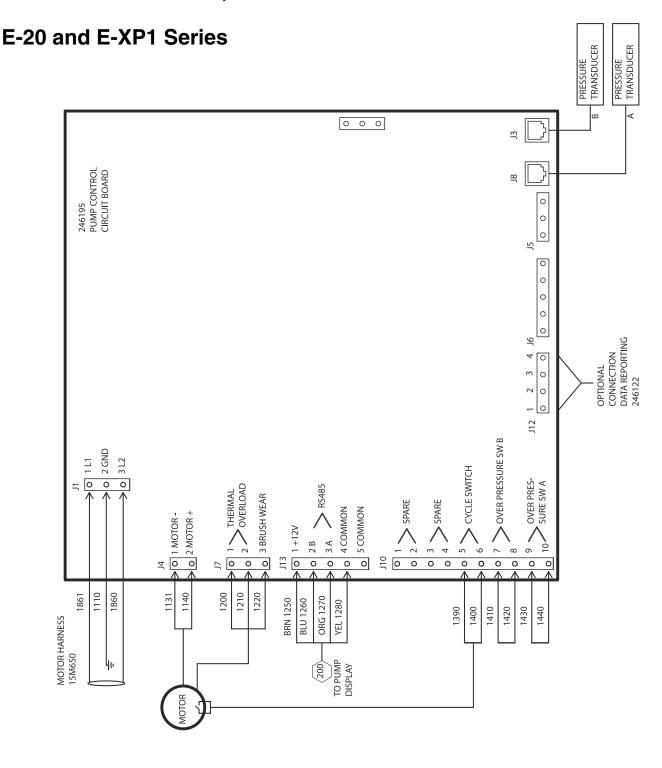
# **Simplified Schematic, Heater Controls**



# **Simplified Schematic, Power Connections**



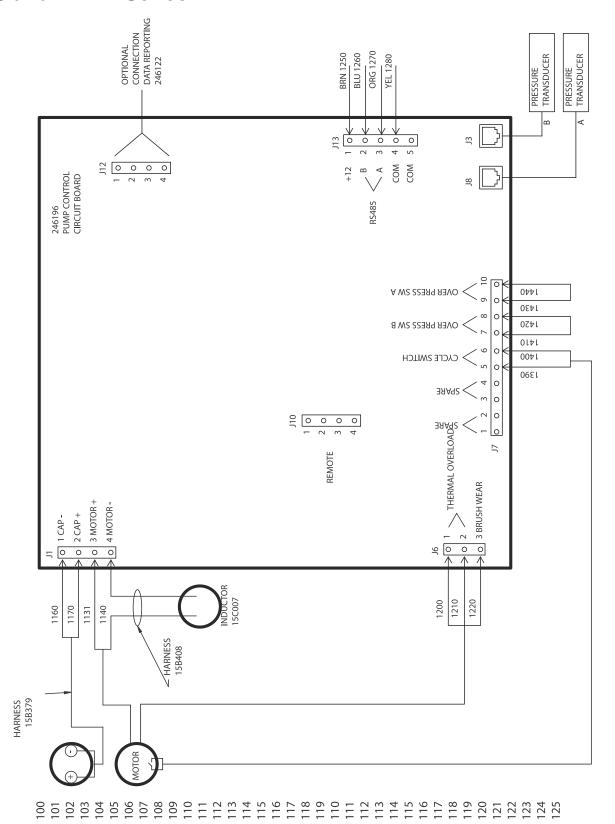
## **Detailed Schematic, Motor Controls**



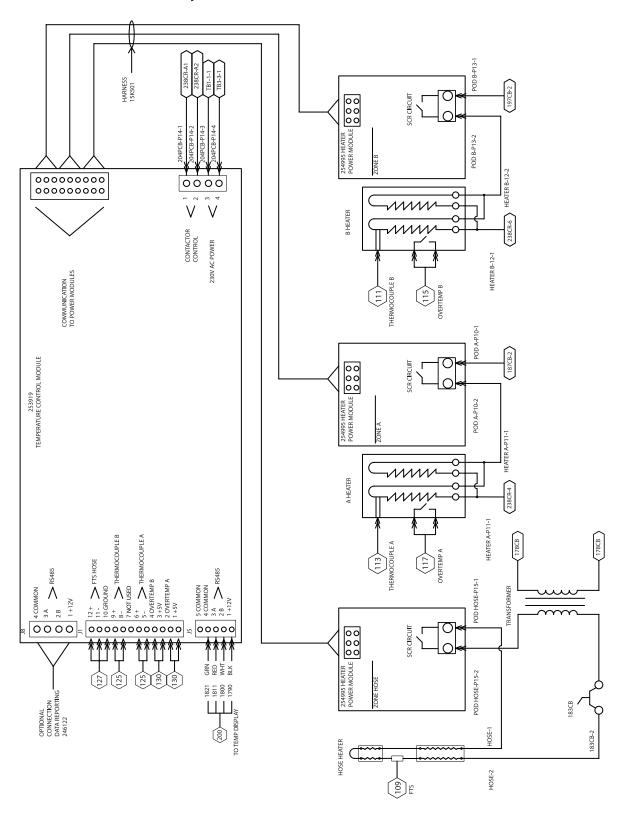
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### **Detailed Schematic, Motor Controls (cont.)**

### E-30 and E-XP2 Series



# **Detailed Schematic, Heater Controls**



### **Graco Standard Warranty**

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Phone: 612-623-6921 or Toll Free: 1-800-328-0211 Fax: 612-378-3505

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