Electrical Diagrams

GRACO

REACTOR™

312067E

EN

Electric, Heated, Plural Component Proportioner

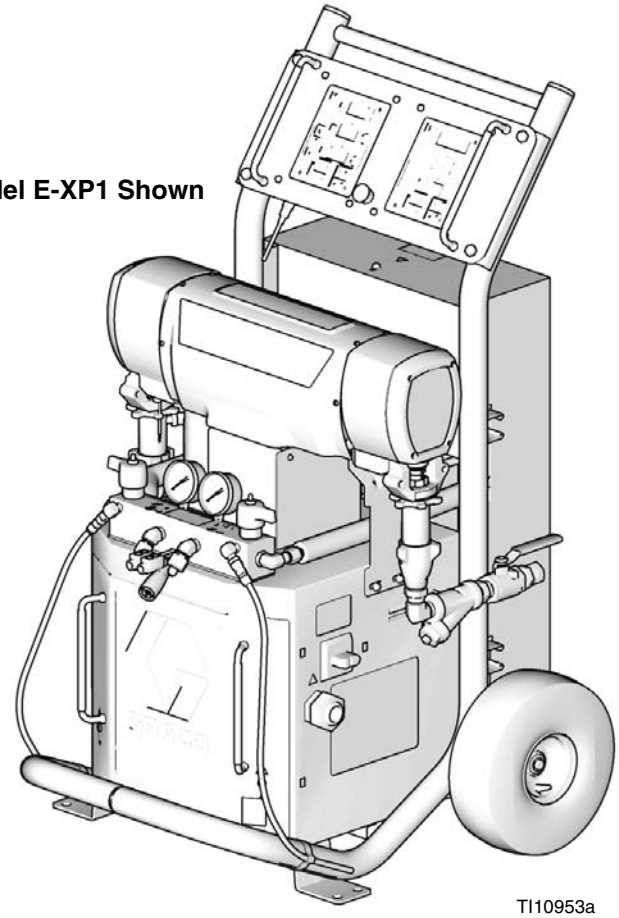
For spraying polyurethane foam and polyurea coatings. For professional use only.

Not approved for use in European explosive atmosphere locations.

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.

Model E-XP1 Shown



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Conforms to ANSI/UL Std. 499 Certified to CAN/CSA Std. C22.2 No. 88

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Supplied Manuals

The following manuals are shipped with the Reactor™ 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 Watts†	Primary Heater Watts	Max Flow Rate◆ lb/min (kg/min)	Approximate Output per Cycle (A+B) gal. (liter)	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	Max Flow Rate◆ lb/min (kg/min)	Approximate Output per Cycle (A+B) gal. (liter)	Maximum Fluid Working Pressure psi (MPa, bar)
259026, F	78	230V (1)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259031, F	34	400V (3)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259035, F	50	230V (3)	17,900	10,200	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259057, F	100	230V (1)	23,000	15,300	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259058, F	62	230V (3)	23,000	15,300	30 (13.5)	0.0272 (0.1034)	2000 (14, 140)
259059, F	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◆ gpm (lpm)	Approximate Output per Cycle (A+B) gal. (liter)	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*	Voltage (phase)	System Watts†	Primary Heater Watts	Max Flow Rate◆ gpm (lpm)	Approximate Output per Cycle (A+B) gal. (liter)	Maximum Fluid Working Pressure psi (MPa, bar)
259028, F	100	230V (1)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)
259032, F	35	400V (3)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)
259036, F	62	230V (3)	23,000	15,300	2.0 (7.6)	0.0203 (0.0771)	3500 (24.1, 241)

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

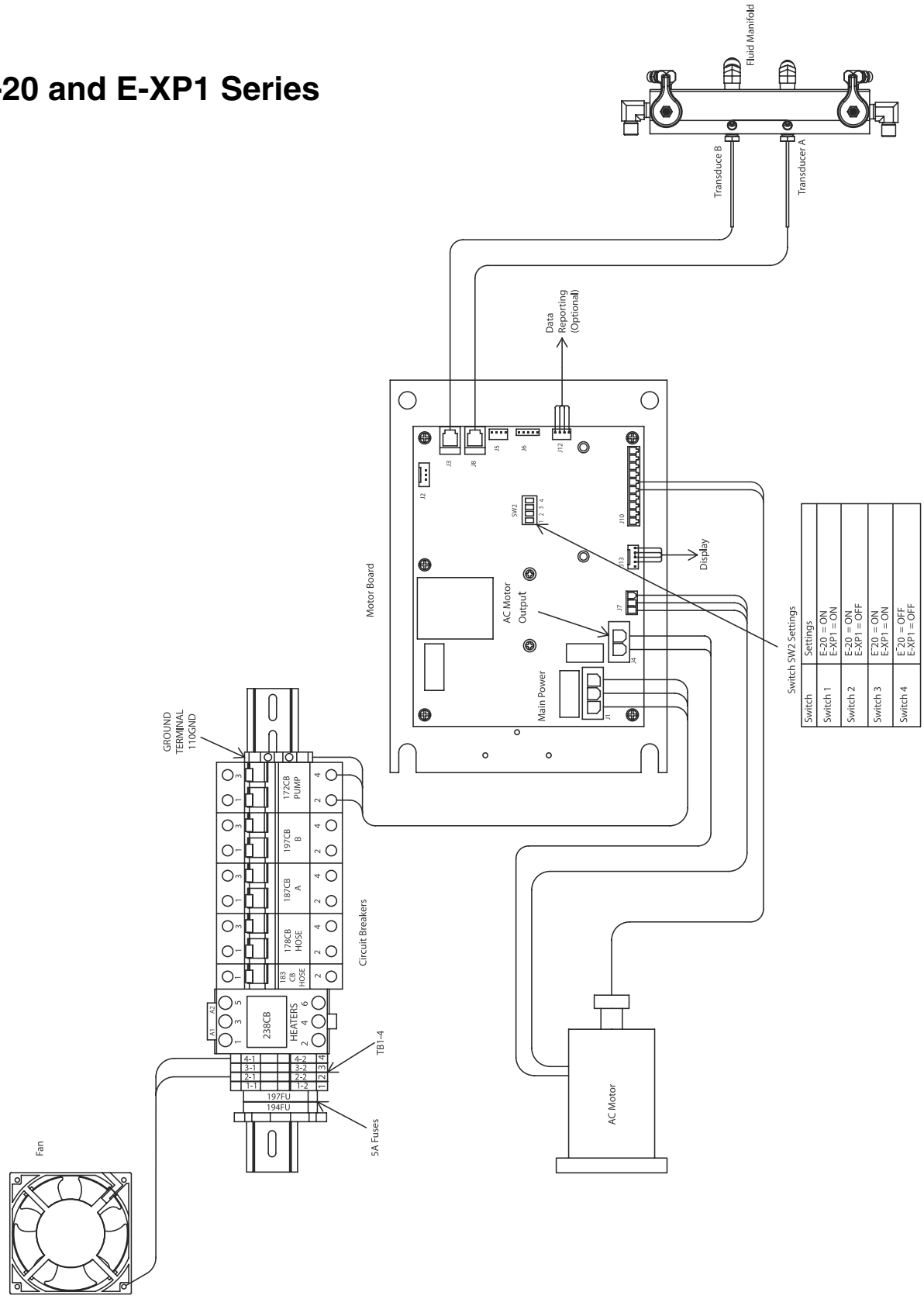
† Total system watts, based on maximum hose length for each unit:

- 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.

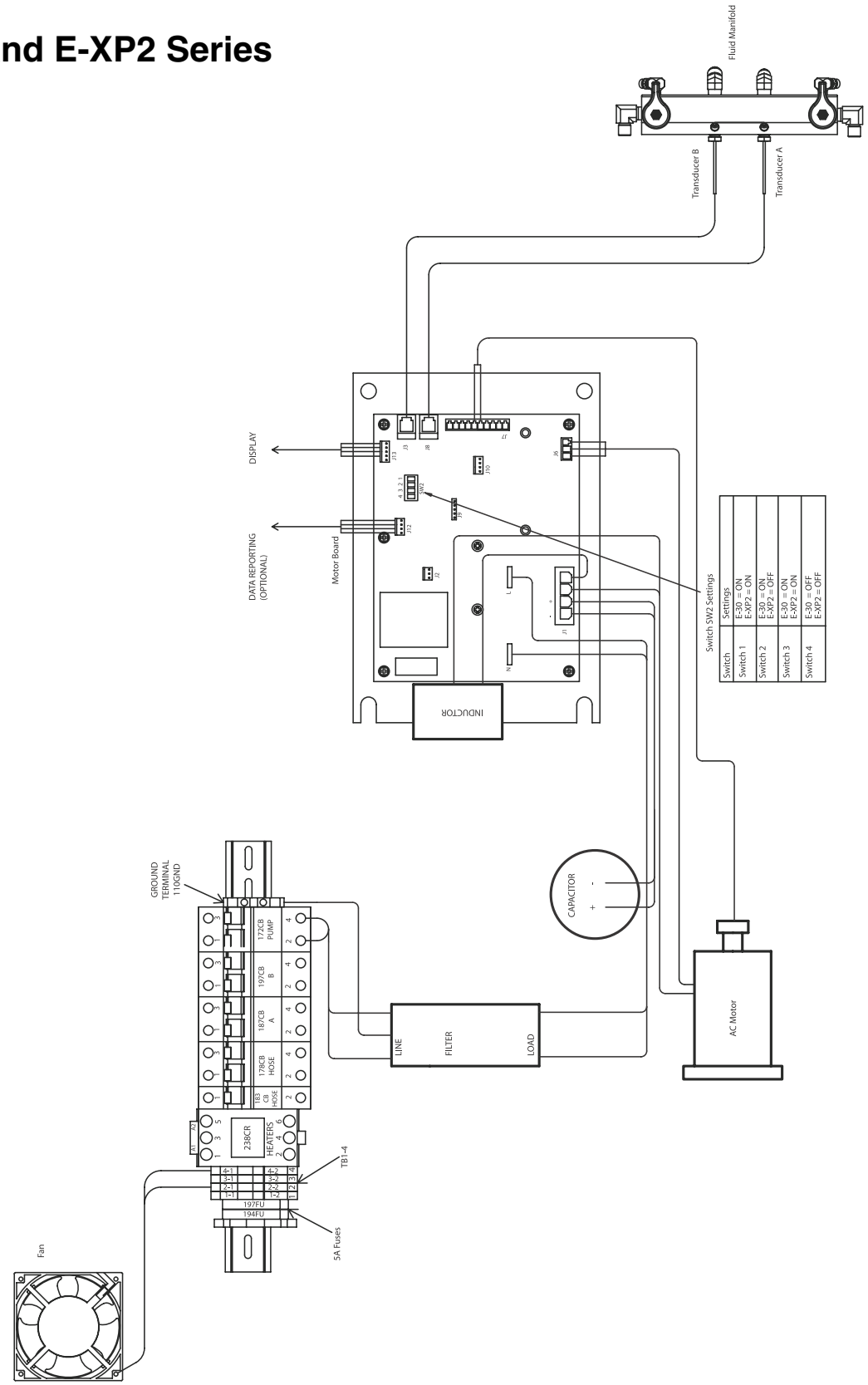
Simplified Schematics, Motor Controls

E-20 and E-XP1 Series

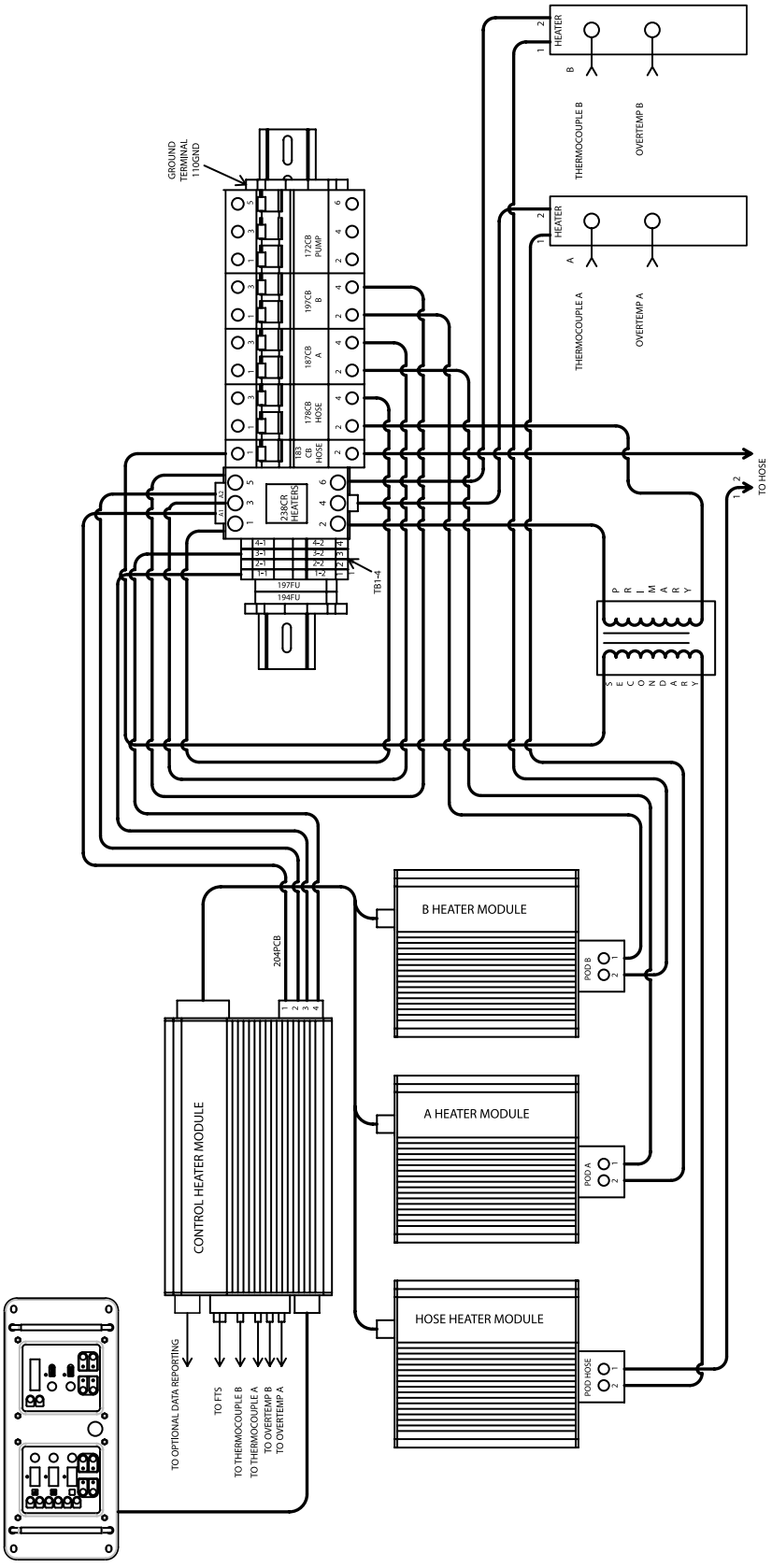


Simplified Schematics, Motor Controls (cont.)

E-30 and E-XP2 Series

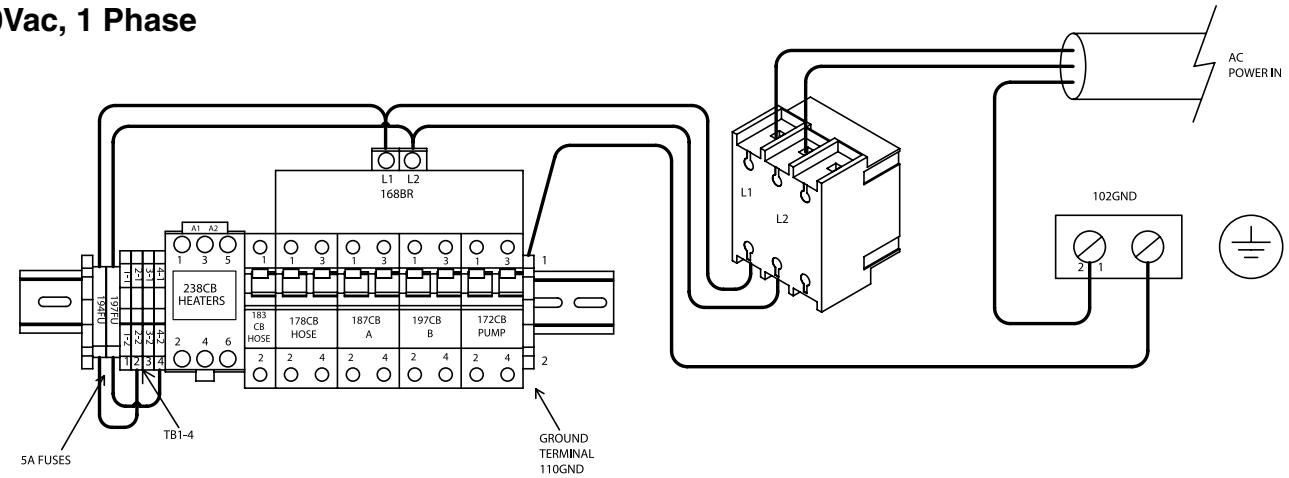


Simplified Schematic, Heater Controls

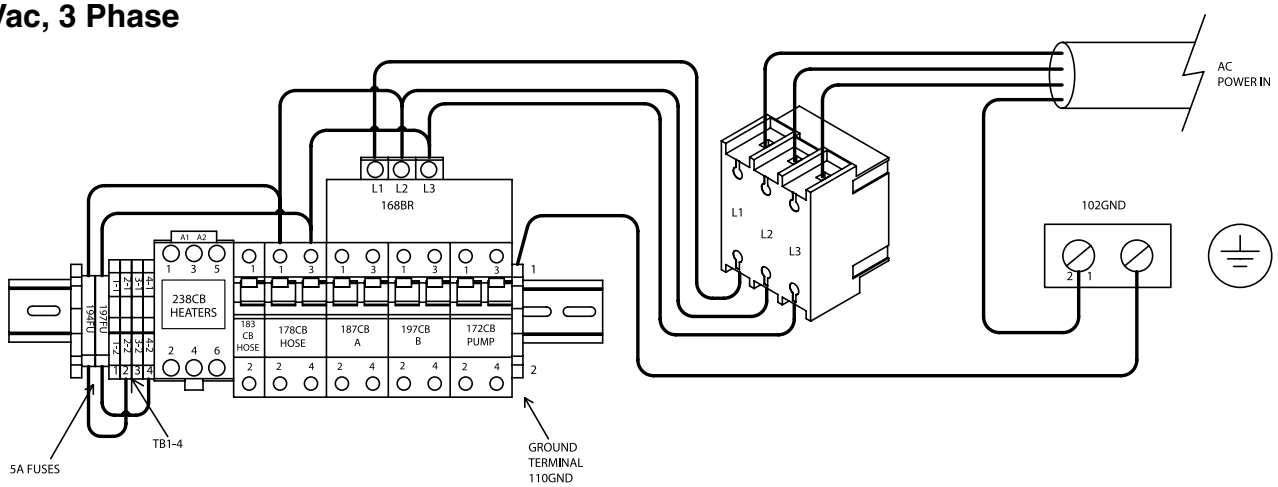


Simplified Schematic, Power Connections

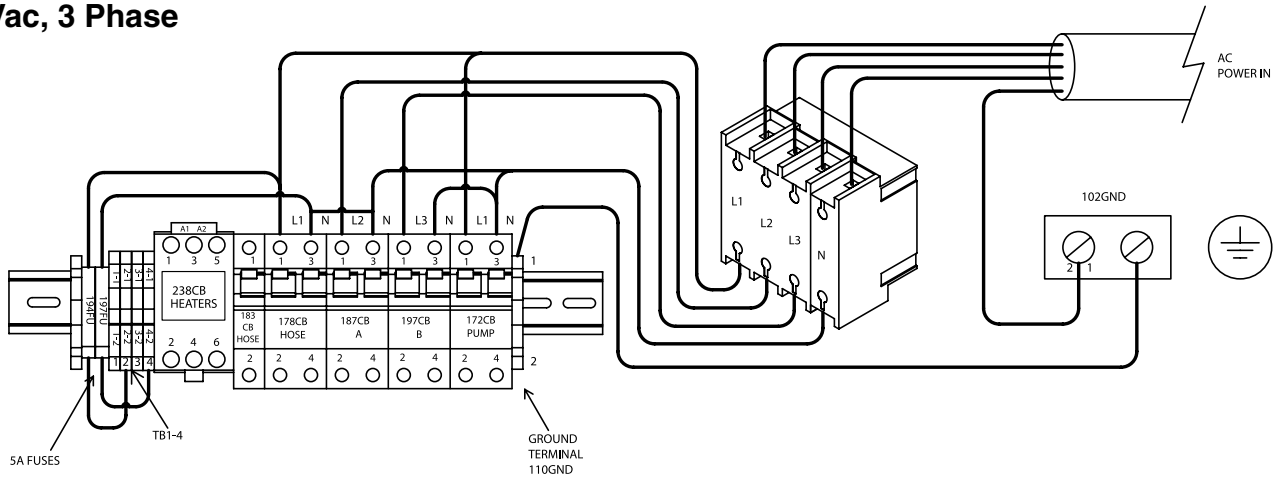
230Vac, 1 Phase



230Vac, 3 Phase

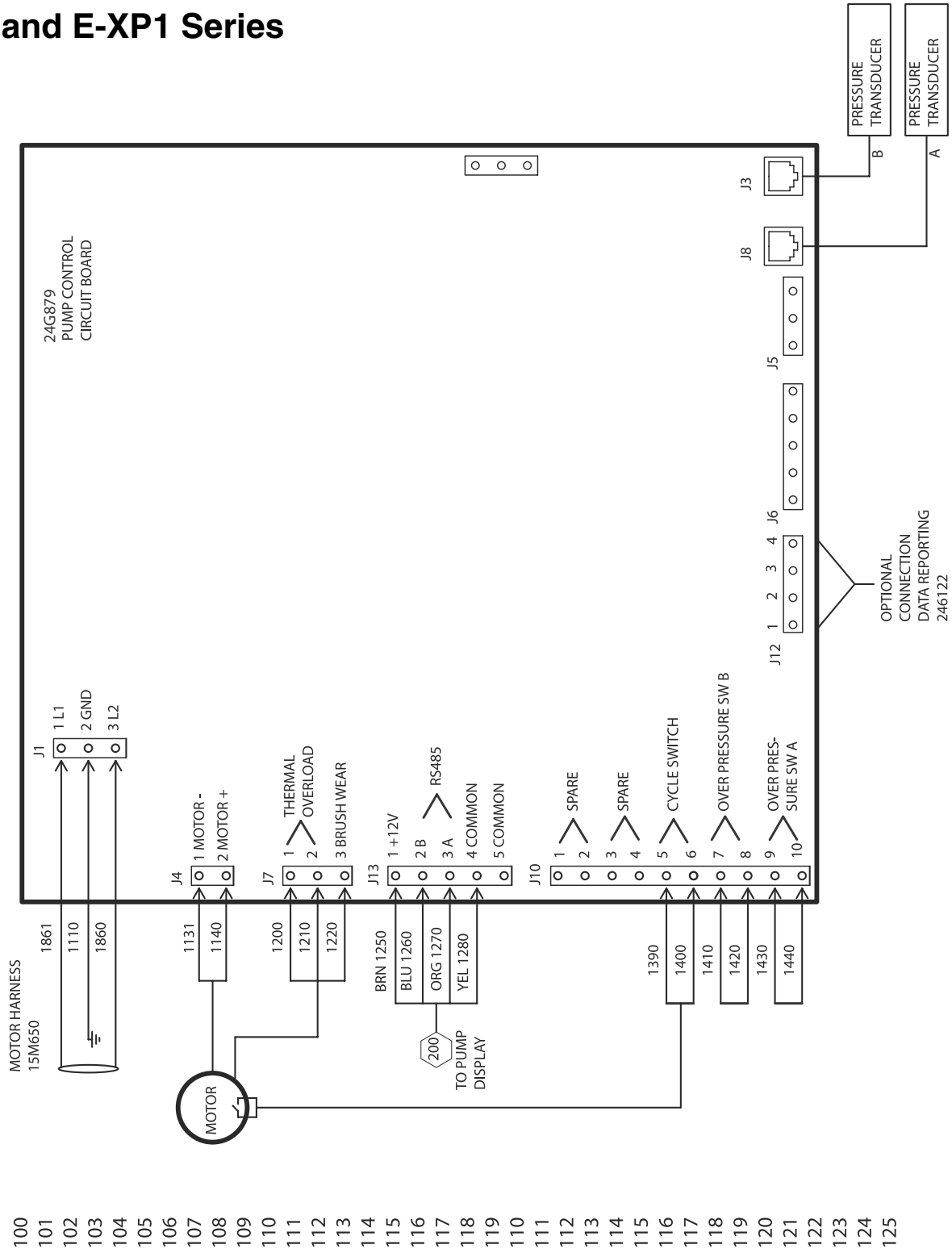


400Vac, 3 Phase



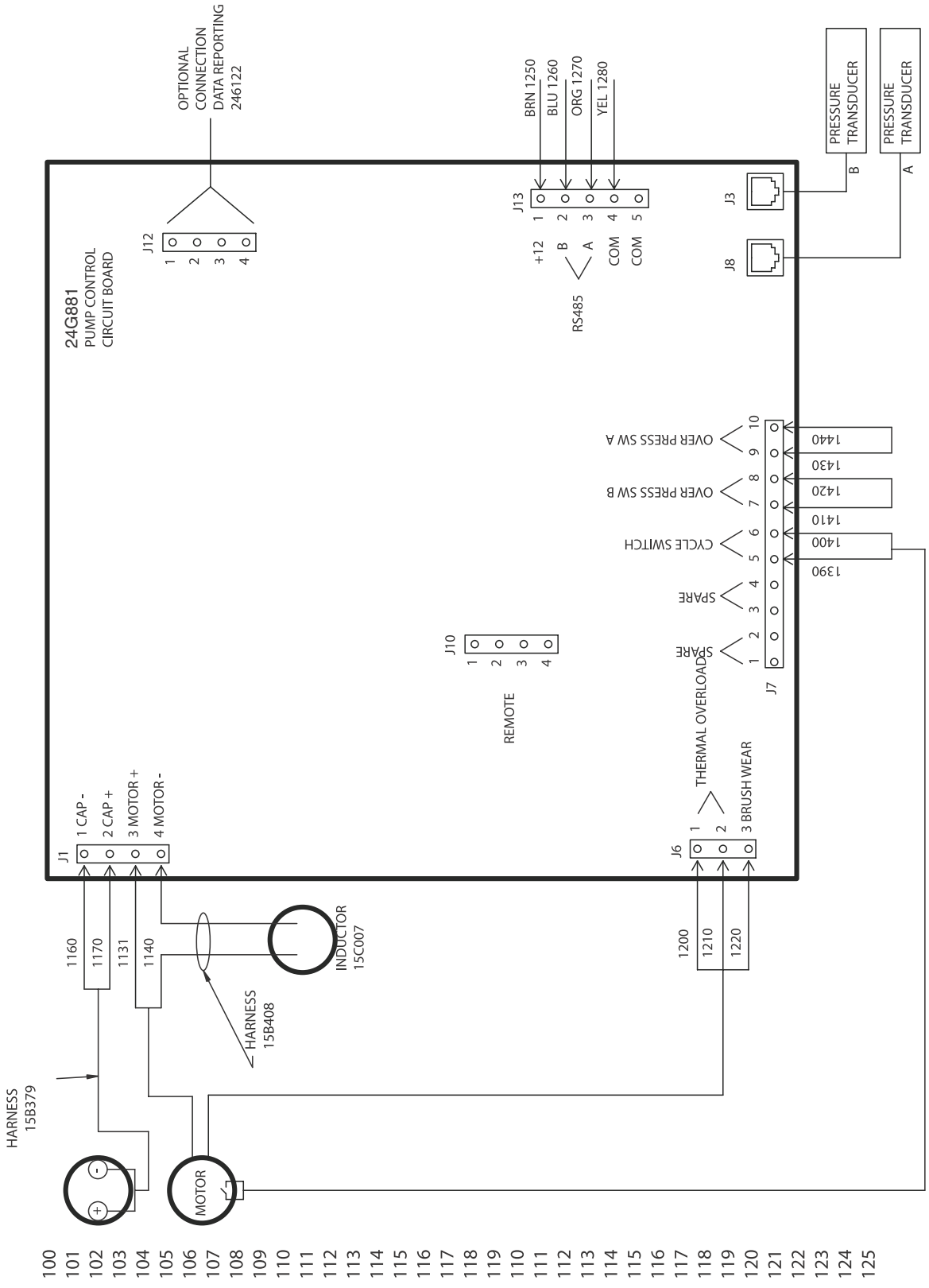
Detailed Schematic, Motor Controls

E-20 and E-XP1 Series

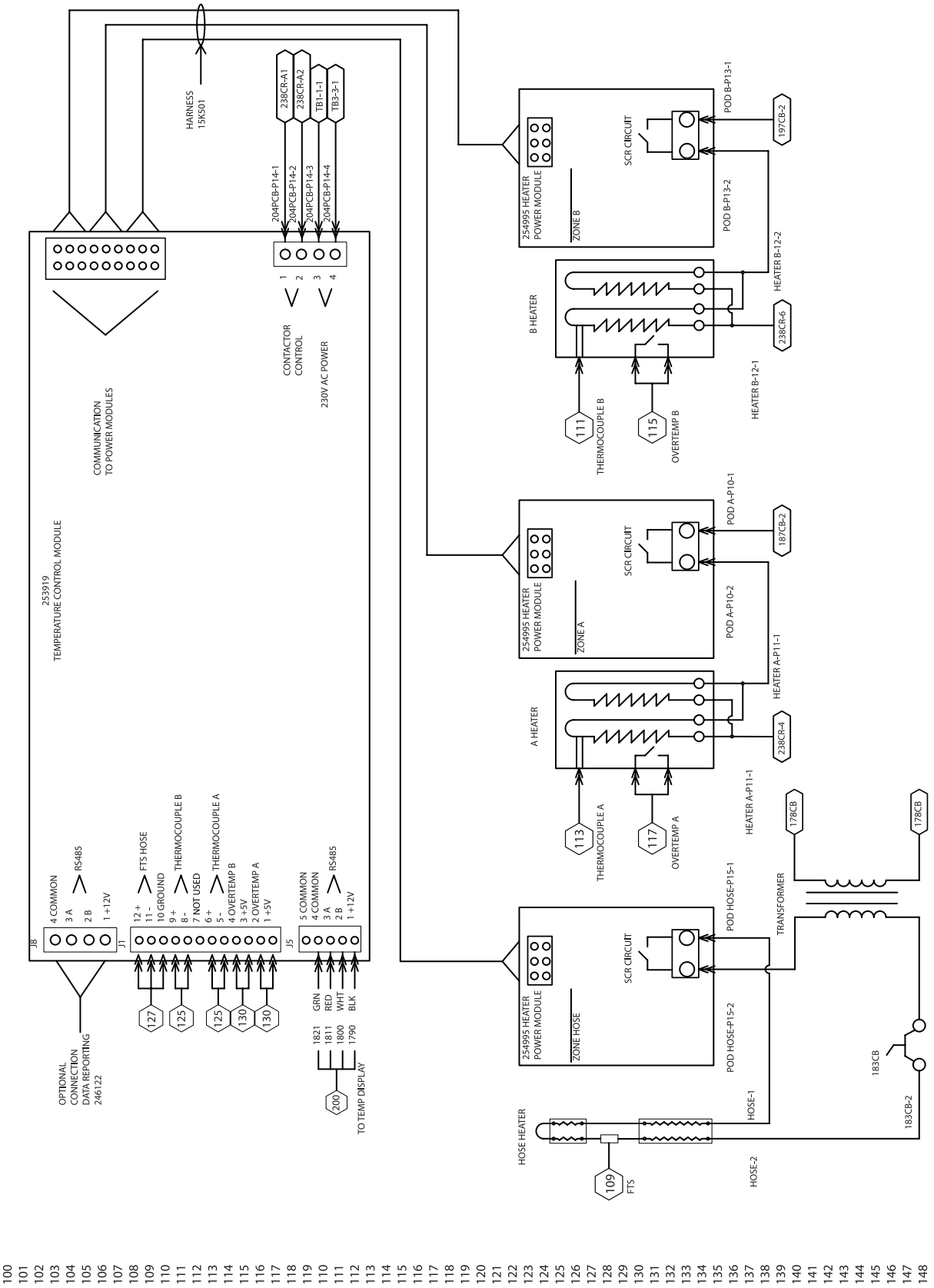


Detailed Schematic, Motor Controls (cont.)

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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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Graco Information

For the latest information about Graco products, visit www.graco.com.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.
Phone: 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-3505

All written and visual data contained in this document reflects the latest product information available at the time of publication.
Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 312067

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