Electrical Diagrams





312064N

F٨

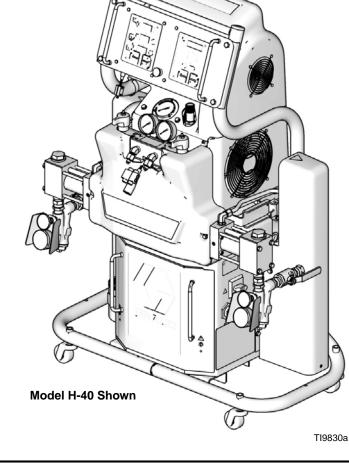
Hydraulic, Heated, Plural Component Proportioner For spraying polyurethane foam and polyurea coatings. Not for use in explosive atmospheres. For professional use only.



Important Safety Instructions

Read all warnings and instructions in this manual and in manuals 312062 and 313539. 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[™] Proportioner. Refer to these manuals for detailed equipment information.

Manuals are also available at www.graco.com.

Reactor Hydraulic Proportioner					
Part	Description				
312062	Reactor Hydraulic Proportioner, Operation Manual (English)				
312063	Reactor Hydraulic Proportioner, Repair-Parts Manual (English)				
313539	Reactor H-VR Proportioner, Operation Manual (English)				
313540	Reactor H-VR Proportioner, Repair-Parts Manual (English)				

Models

H-25 SERIES

Part, Series	Full Load Peak Amps* Per Phase	Nominal Voltage Range (phase)	System Watts†	Primary Heater Watts	Max Flow Rate◆ Ib/min (kg/min)	Approximate Output per Cycle (A+B) gal. (liter)		Maximum Fluid Working Pressure psi (MPa, bar)
255400, F	69	200-240 V (1)	15,960	8,000	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
255401, F	46	200-240 V (3)	15,960	8,000	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
255402, F	35	350-415 V (3)	15,960	8,000	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
255406, F	100	200-240 V (1)	23,260	15,300	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
255407, F	59	200-240 V (3)	23,260	15,300	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
255408, F	35	350-415 V (3)	23,260	15,300	22 (10)	0.063 (0.24)	1.91:1	2000 (13.8, 138)

H-40 SERIES

Part, Series	Full Load Peak Amps* Per Phase	Nominal Voltage Range (phase)	System Watts†	Primary Heater Watts	Max Flow Rate♦ Ib/min (kg/min)	Approximate Output per Cycle (A+B) gal. (liter)	Hydraulic Pressure	Maximum Fluid Working Pressure psi (MPa, bar)
★253400, E	100	200-240 V (1)	23,100	12,000	45 (20)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
253401, E	71	200-240 V (3)	26,600	15,300	45 (20)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
253402, E	41	350-415 V (3)	26,600	15,300	45 (20)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
253407, E	95	200-240 V (3)	31,700	20,400	45 (20)	0.063 (0.24)	1.91:1	2000 (13.8, 138)
253408, E	52	350-415 V (3)	31,700	20,400	45 (20)	0.063 (0.24)	1.91:1	2000 (13.8, 138)

H-50 SERIES

Part, Series	Full Load Peak Amps* Per Phase	Nominal Voltage Range (phase)	System Watts†	Primary Heater Watts	Max Flow Rate♦ Ib/min (kg/min)	Approximate Output per Cycle (A+B) gal. (liter)		Maximum Fluid Working Pressure psi (MPa, bar)
★253725, E	100	200-240 V (1)	23,100	12,000	52 (24)	0.073 (0.28)	1.64:1	1700 (11.7, 117)
253726, E	71	200-240 V (3)	26,600	15,300	52 (24)	0.073 (0.28)	1.64:1	2000 (13.8, 138)
253727, E	41	350-415 V (3)	26,600	15,300	52 (24)	0.073 (0.28)	1.64:1	2000 (13.8, 138)
256505, E	95	200-240 V (3)	31,700	20,400	52 (24)	0.073 (0.28)	1.64:1	2000 (13.8, 138)
256506, E	52	350-415 V (3)	31,700	20,400	52 (24)	0.073 (0.28)	1.64:1	2000 (13.8, 138)

H-VR SERIES

Part, Series	Full Load Peak Amps* Per Phase		, ,	Primary Heater Watts		Cycle (A+B)	Hydraulic Pressure	Maximum Fluid Working Pressure psi (MPa, bar)
256886	71	200-240 V (3)	26,600	15,300	15 (4)	Variable	Variable	3500 (24.1, 241)
256887	41	350-415 V (3)	26,600	15,300	15 (4)	Variable	Variable	3500 (24.1, 241)

H-XP2 SERIES

Part, Series	Full Load Peak Amps* Per Phase		System Watts†	Heater	Max Flow Rate◆	Approximate Output per Cycle (A+B) gal. (liter)	Hydraulic Pressure	Maximum Fluid Working Pressure psi (MPa, bar)
255403, F	100	200-240 V (1)	23,260	15,300	1.5 (5.7)	0.042 (0.16)	2.79:1	3500 (24.1, 241)
255404, F	59	200-240 V (3)	23,260	15,300	1.5 (5.7)	0.042 (0.16)	2.79:1	3500 (24.1, 241)
255405, F	35	350-415 V (3)	23,260	15,300	1.5 (5.7)	0.042 (0.16)	2.79:1	3500 (24.1, 241)

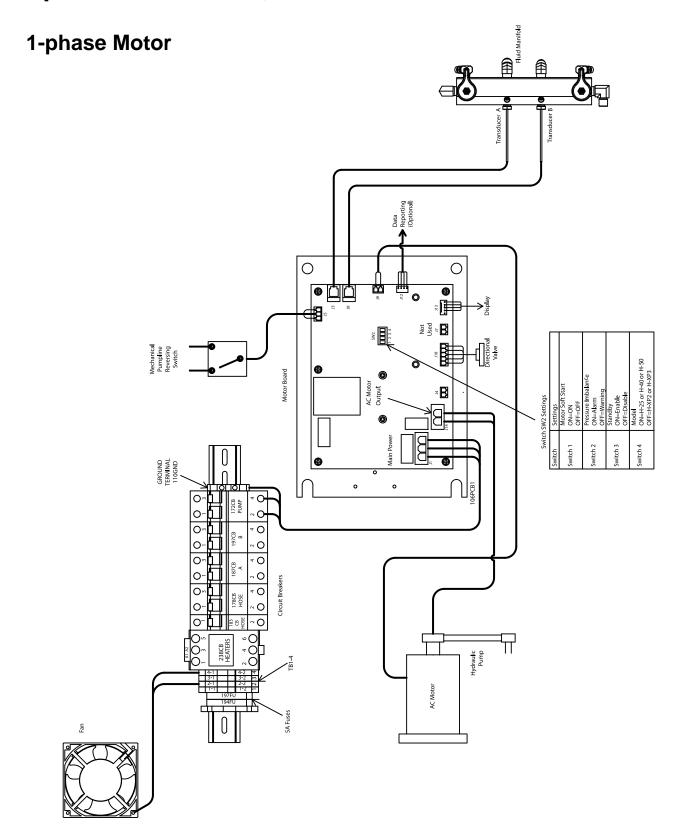
H-XP3 SERIES

Part, Series		Nominal Voltage Range (phase)	System Watts†	Primary Heater Watts	Rate◆	Approximate Output per Cycle (A+B) gal. (liter)	Hydraulic Pressure	
★253403, E	100	200-240 V (1)	23,100	12,000	2.8 (10.6)	0.042 (0.16)	2.79:1	3500 (24.1, 241)
253404, E	95	200-240 V (3)	31,700	20,400	2.8 (10.6)	0.042 (0.16)	2.79:1	3500 (24.1, 241)
253405, E	52	350-415 V (3)	31,700	20,400	2.8 (10.6)	0.042 (0.16)	2.79:1	3500 (24.1, 241)

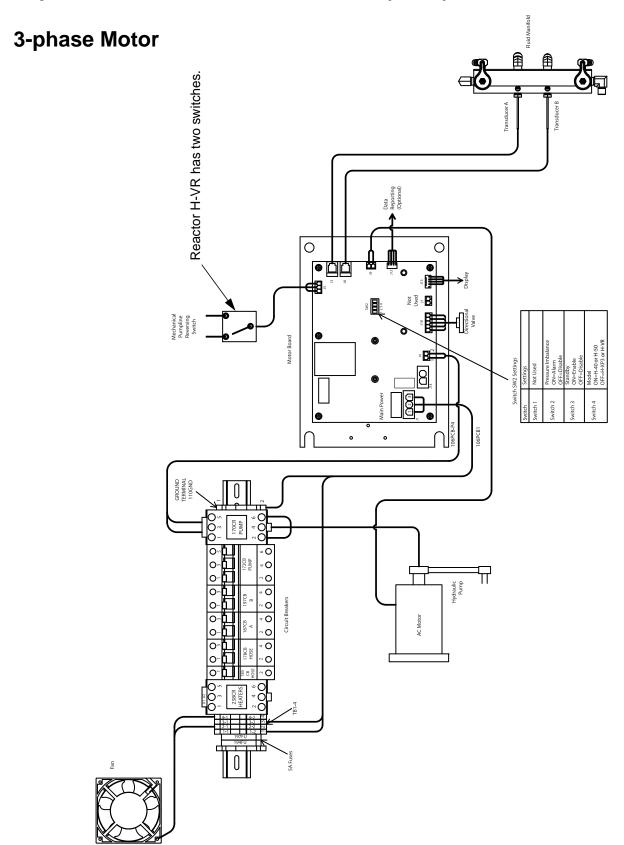
^{*} Full load amps with all devices operating at maximum capabilities. Fuse requirements at various flow rates and mix chamber sizes may be less.

- † Total system watts, based on maximum hose length for each unit:
- Parts 255400 through 255408, 310 ft (94.6 m) maximum heated hose length, including whip hose.
- Parts 253400 through 253408, 253725 through 253727, 256505, and 256506, 410 ft (125 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.
- ★ CE approval does not apply.

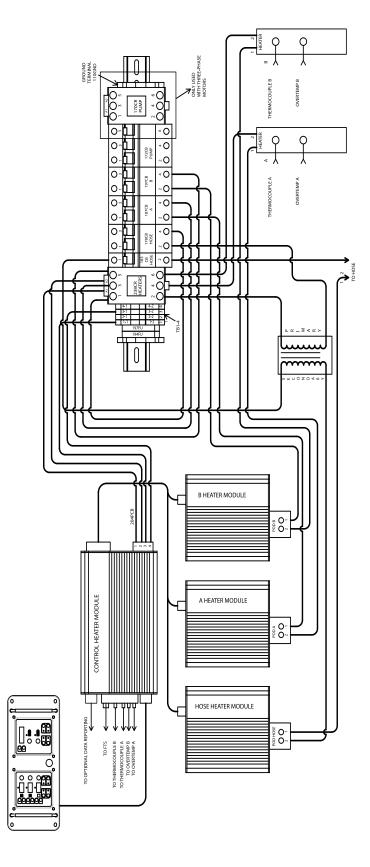
Simplified Schematic, Motor Controls



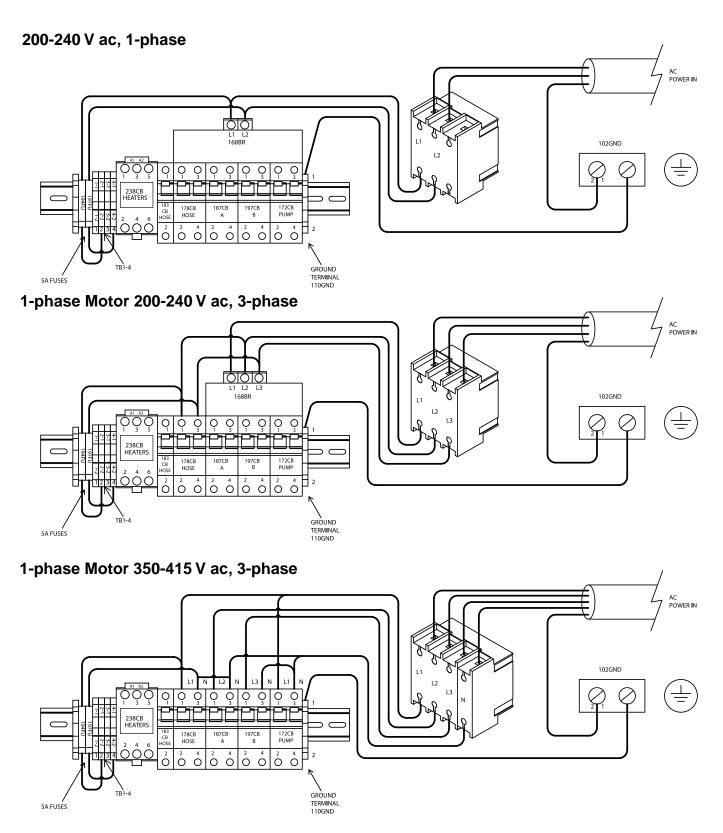
Simplified Schematic, Motor Controls (cont.)



Simplified Schematic, Heater Controls

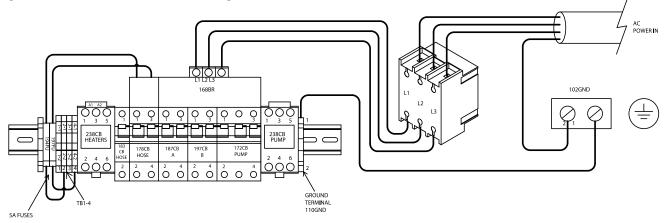


Simplified Schematic, Power Connections

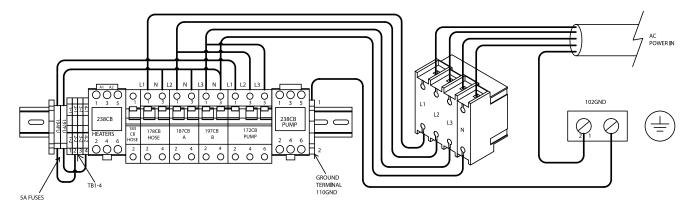


Simplified Schematics, Power Connections (cont.)

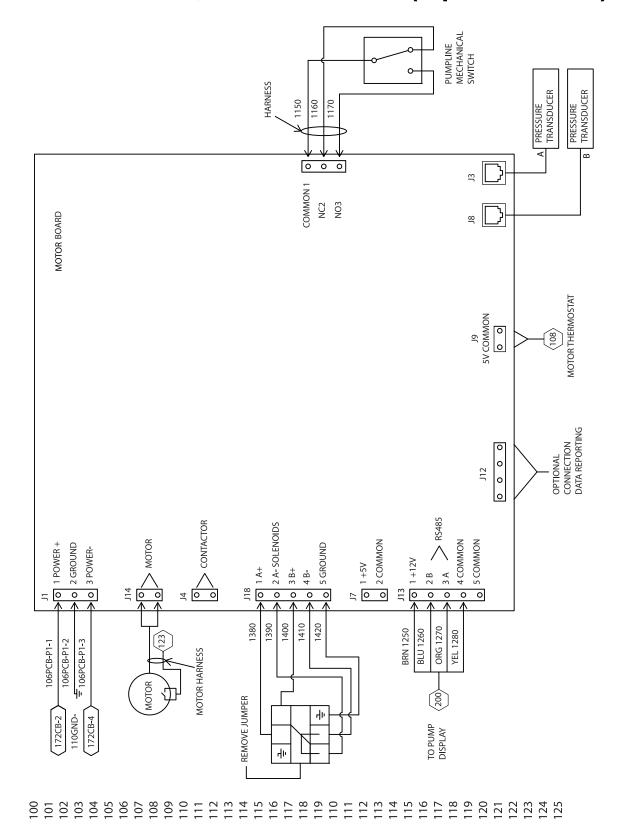
3-phase Motor 200-240 V ac, 3-phase



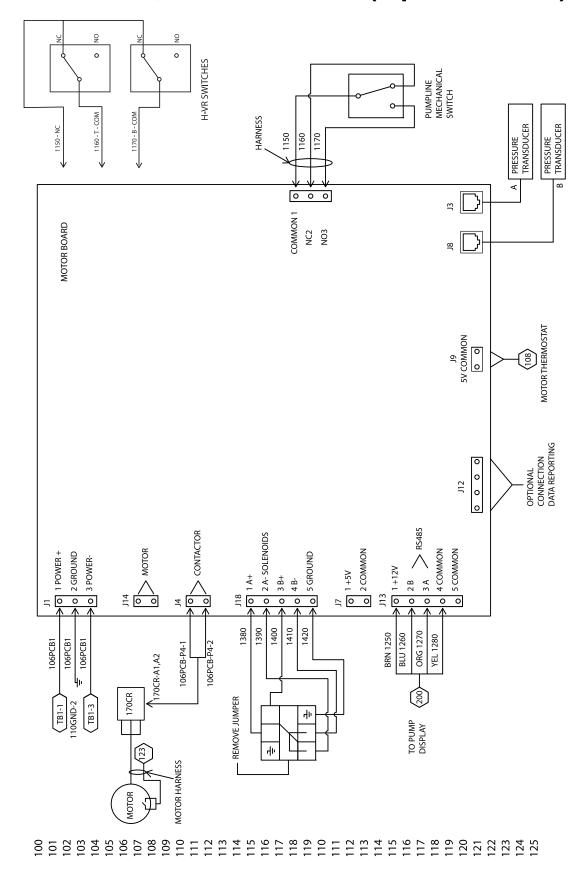
3-phase Motor 350-415 V ac, 3-phase



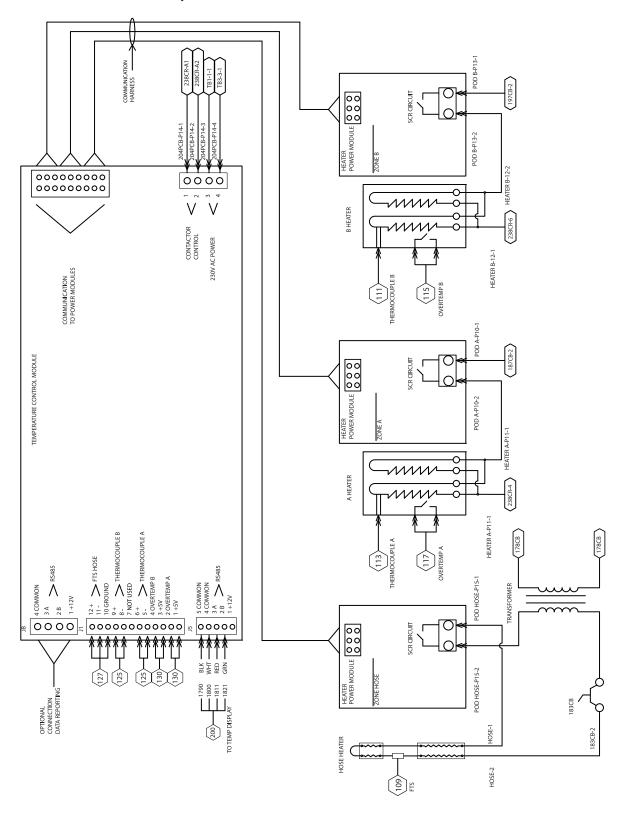
Detailed Schematic, Motor Controls (1-phase Motor)



Detailed Schematic, Motor Controls (3-phase Motor)



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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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.

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

For patent information, see www.graco.com/patents.

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

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Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 312064

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