



REACTOR™

High-performance proportioning system designed to apply polyurea, foam and other fast-set materials.



PROTECTIVE COATINGS

PROVEN QUALITY. LEADING TECHNOLOGY.

The Next Generation of Metering Proportioners

REACTOR PROPORTIONERS



Graco's Reactor is a state-of-the-art plural component proportioning system that gives superior performance, control and accuracy. It is designed to apply polyurea, foam and other materials that require accurate temperatures and pressures necessary for ultimate coating results.

Use Reactor for

- Concrete
- Tank/pipe coating
- Waterproofing
- Wastewater treatment
- Manhole/sewer reconditioning
- Bedliners
- Insulating
- Rail manufacturing and repair
- Secondary containment
- Roof coating
- Inplant OEM
- Adhesives and caulks
- Industrial maintenance



Advanced Features for High Performance Results

- ▶ **Easy-to-use and dependable for increased productivity.**
- ▶ **Accurate heating with precise temperature sensing.**
- ▶ **System controls with diagnostics, auto-shutdown and job data reporting.**
- ▶ **Portable, wheeled cart allows you to get closer to the job and takes up less trailer space.**

REACTOR™

State-of-the-Art Reactor Electric Series



FEATURES OF THE REACTOR

- 1 ELECTRIC MOTORS**
Superior efficiency improves performance and reduces operating costs
- 2 PRESSURE BALANCE VALVES**
Quick and easy balancing of system pressures
- 3 EASY-TO-SERVICE FLUID SECTION**
Reduces maintenance and increases productivity
- 4 HIGH OUTPUT HEATER(S)**
Up to 15,300 watts keep temperatures constant
- 5 BALANCED PROPORTIONING**
Eliminates pressure fluctuations to give you a consistent spray pattern
- 6 STEEL FRONT BUMPER**
Protects system components from impact

Engineered with the User in Mind!

REACTOR

- Pressures up to 2000 psi (138 bar, 13.8 MPa)
- Flow output up to 57 lbs (27 kilograms) per minute
- Accurately applies foams, high performance coatings, caulks and adhesives

Revolutionary Vertical Pump Design

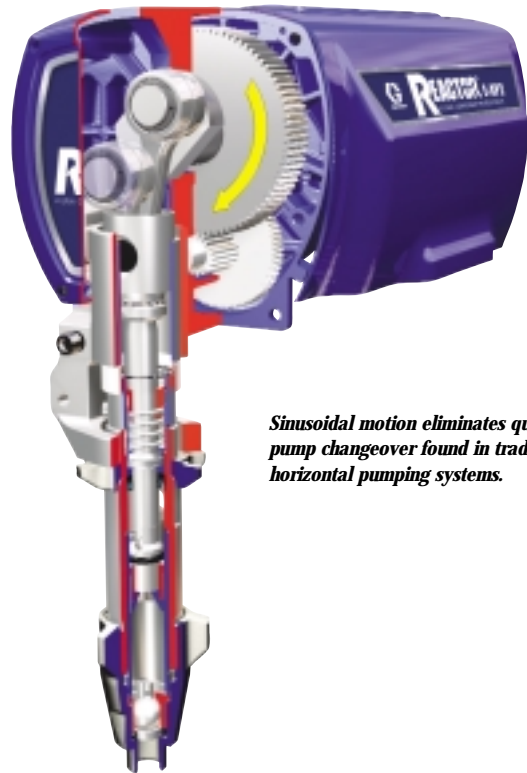
- Circular crank drive delivers smoother operation by eliminating the quick pump changeover of traditional horizontal pumping systems
- Slower pump changeover ensures proper material loading and maintains accurate mix ratio
- Improved pump loading reduces the size of supply pumps needed for the system

Superior Heating

- Digital heat and pressure for greater application accuracy and control
- High wattage heaters easily reach and maintain required temperatures

REACTOR XP

- Pressures up to 3500 psi (241 bar, 24.1 MPa)
- Sprays the most advanced materials including polyurea and polyurethane coatings

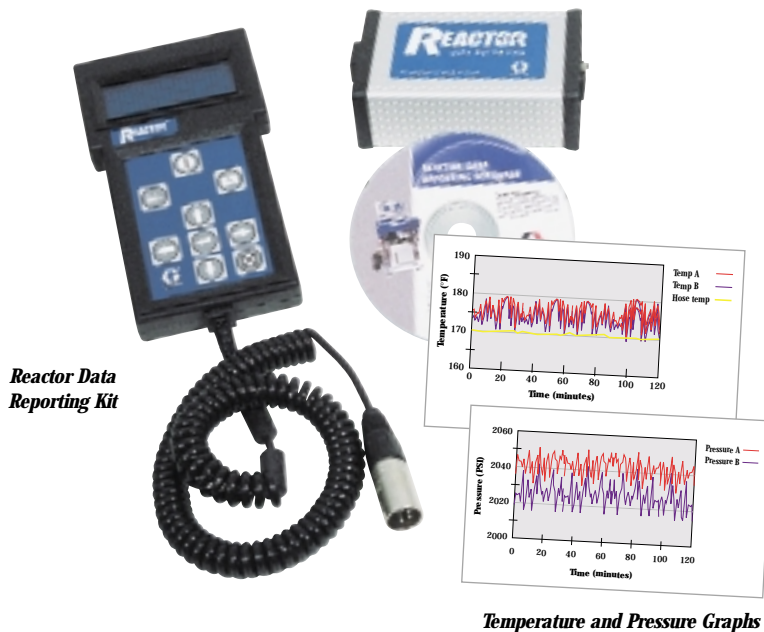


Sinusoidal motion eliminates quick pump changeover found in traditional horizontal pumping systems.



Application Control

- Data reporting provides job application data
- User can output data in spread sheet format for quick graphing of application temperatures and pressures
- System diagnostic codes for quick and easy troubleshooting
- Automatic shutdown with pressure imbalance



Easy-to-Use and Service

- Reduced size and weight for mobile applications
- Quick knockdown fluid sections streamlines maintenance and service
- Simplified controls reduce operator training and increase productivity

SMART MIX CONTROL PANEL

REMOTE MOUNTABLE

Up to 300 ft (91 m) for application flexibility

TARGET AND ACTUAL TEMPERATURE

Easily set target temperature and display actual temperature to verify operation

CYCLE COUNTER

Reduces material waste

PARK - LOWERS ISO PUMP ROD

Lengthens pump seal life by preventing ISO reaction

PRESSURE READOUT IN PSI OR BAR

Provides regional flexibility



Reactor Proportioning Systems



Reactor Proportioner

- State-of-the-art technology
- Compact and lightweight
- Applies today's most advanced coatings



Fusion Spray Gun

- Superior mix quality
- Increased productivity with less maintenance
- Longer life components for reduced maintenance



Electric Heated Hose & Whip Hose

- Low voltage
- Moisture-resistant
- Interchangeable with competitive hose

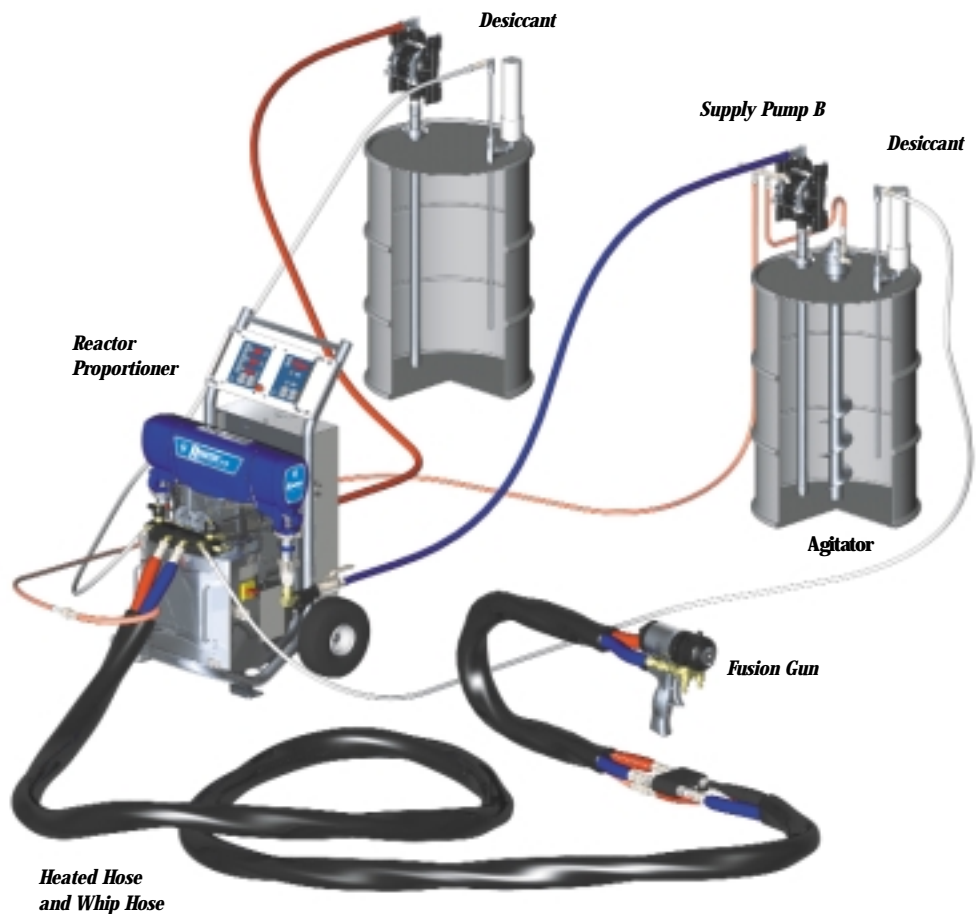
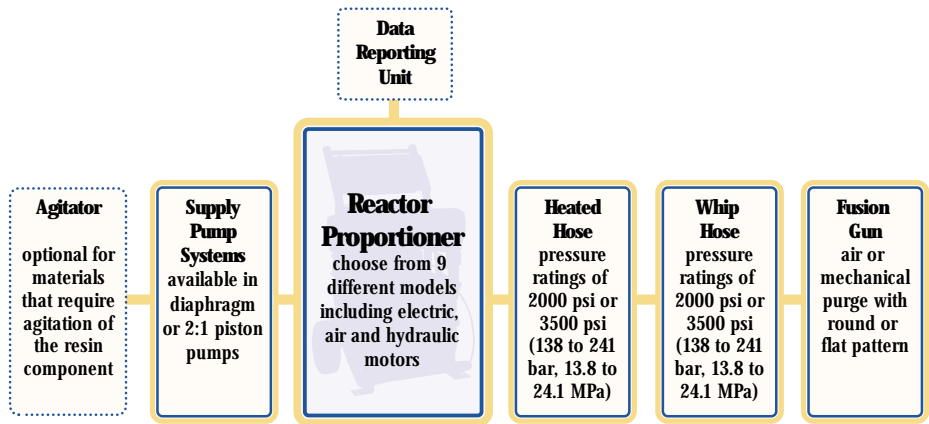


Supply Pumps

- Diaphragm pump systems offer
 - Air-tight seal
 - Quick priming
 - High flow rates
 - Inlet tube ball checks for easy drum changes
- 2:1 piston pump systems available for
 - High viscosity, hard to pump materials

A Complete High-Performance Plural-Component System

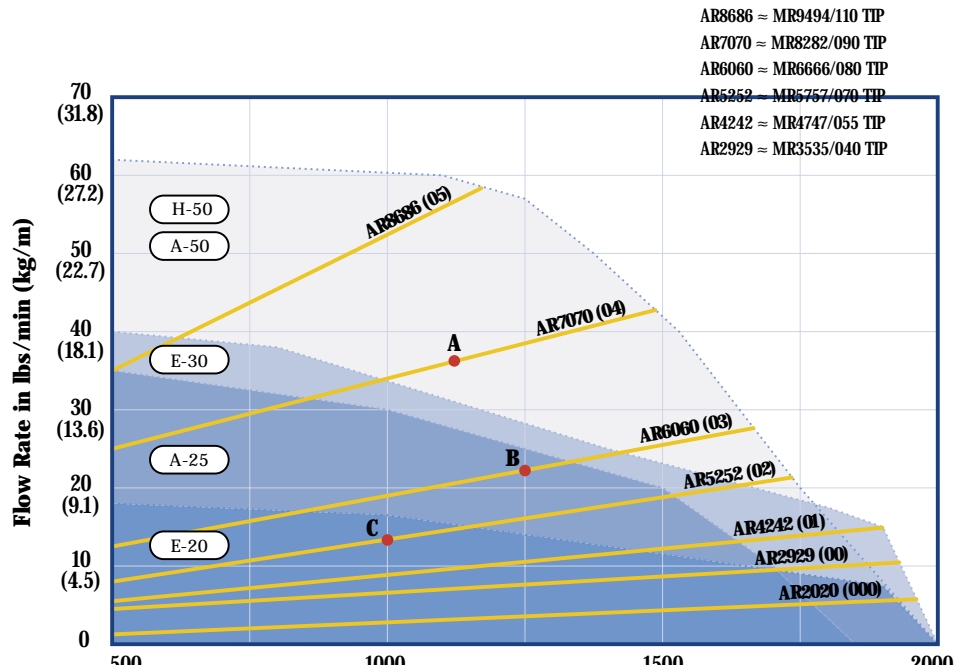
Graco offers a complete selection of components necessary to configure your proportioning system. For more information about specific products, please refer to the ordering information at the back of this brochure.



Reactor Selection Guide

Performance Charts

Use these charts to help identify the Reactor that will work most efficiently with each mix chamber. Flow rates are based on a material viscosity of 60 cps. See examples to the right of each chart.



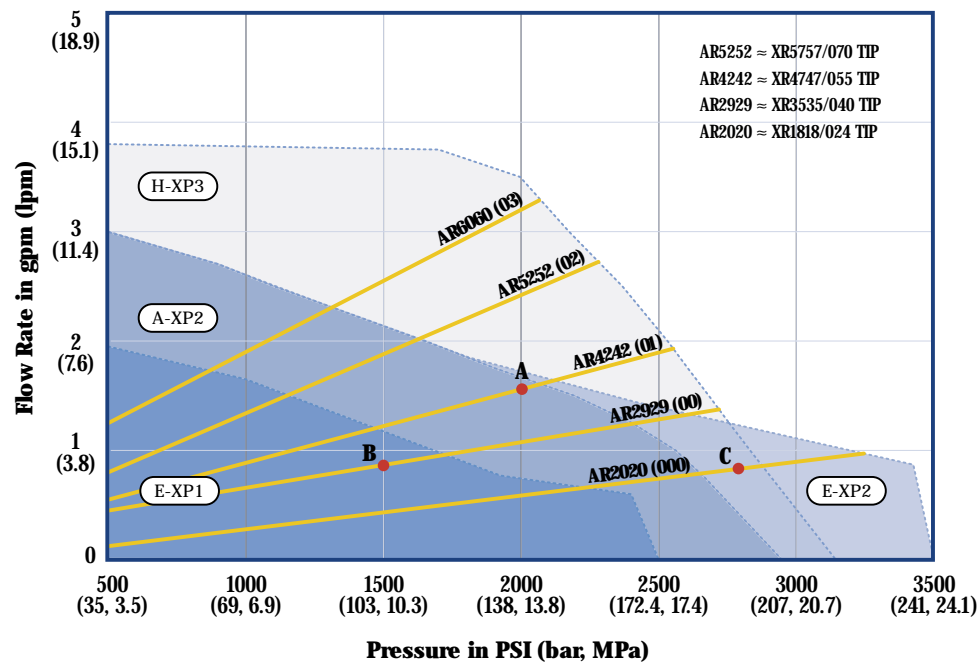
HOW TO USE THIS CHART

- Select spray pressure
- Select mix chamber
- Choose Reactor model

Note: Darker shading includes Reactor models shown in lighter shaded areas.

EXAMPLES

- A** Mix chamber: AR7070 (04)
 Pressure: 1100 psi
 Flow rate: 35 lbs/min*
 Reactor H-50 and A-50
- B** Mix chamber: AR6060 (03)
 Pressure: 1250 psi
 Flow rate: 22 lbs/min*
 Reactor H-50, A-50
 Reactor E-30, A-25
- C** Mix chamber: AR5252 (02)
 Pressure: 1000 psi
 Flow rate: 12 lbs/min*
 Reactor H-50, A-50, E-30
 Reactor A-25, E-20



HOW TO USE THIS CHART

- Select spray pressure
- Select mix chamber
- Choose Reactor model

Note: Darker shading includes Reactor models shown in lighter shaded areas.

EXAMPLES

- A** Mix chamber: AR4242 (01)
 Pressure: 2000 psi
 Flow rate: 1.6 gpm*
 Reactor H-XP3, A-XP2, E-XP2
- B** Mix chamber: AR2929 (00)
 Pressure: 1500 psi
 Flow rate: 0.9 gpm*
 Reactor H-XP3, A-XP2
 Reactor E-XP1, E-XP2
- C** Mix chamber: AR2020 (000)
 Pressure: 2750 psi
 Flow rate: 0.8 gpm*
 Reactor H-XP3 and E-XP2

* Output of flat tip will be slightly less than round equivalent.

Quick Reference/Ordering Information

Reactor

ELECTRIC PROPORTIONERS

E-20

Maximum pressure	2000 psi (138 bar, 13.8 MPa)
Output in lbs/min	18 (8 kg/min)
Heater output	6,000 watts
Maximum hose length	210 ft (64 m)
Weight	340 lbs (154 kg)
Ordering information	
246025	230 volt single phase, 48 full load amps
246034	230 volt three phase, 32 full load amps
246030	380 volt three phase with neutral, 24 full load amps

E-30

Maximum pressure	2000 psi (138 bar, 13.8 MPa)
Output in lbs/min	34 (15 kg/min)
Heater output	10,200 watts
Maximum hose length	310 ft (94 m)
Weight	400 lbs (181 kg)
Ordering information	
246026	230 volt single phase, 78 full load amps
246035	230 volt three phase, 50 full load amps
246031	380 volt three phase with neutral, 34 full load amps

AIR PROPORTIONERS

A-25

Maximum pressure	2000 psi (138 bar, 13.8 MPa)
Output in lbs/min	30 (13 kg/min)
Heater output	10,200 watts
Maximum hose length	310 ft (94 m)
Maximum air pressure	125 psi (8.6 bar, 0.86 MPa)
Maximum air consumption	60 cfm
Weight	400 lbs (180 kg)
Ordering information	
246037	230 volt single phase, 45 full load amps
246750	230 volt three phase, 30 full load amps
246751	380 volt three phase with neutral, 23 full load amps

A-50

Maximum pressure	2000 psi (138 bar, 13.8 MPa)
Output in lbs/min	60 (26 kg/min)
Heater output	15,300 watts
Maximum hose length	310 ft (94 m)
Maximum air pressure	75 psi (5 bar, 0.5 MPa)
Maximum air consumption	100 cfm
Weight	480 lbs (216 kg)
Ordering information	
246038	230 volt single phase, 85 full load amps
246754	230 volt three phase, 57 full load amps
246755	380 volt three phase with neutral, 43 full load amps

HYDRAULIC PROPORTIONERS

H-50

Maximum pressure	2000 psi (138 bar, 13.8 MPa)
Output in lbs/min	60 (26 kg/min)
Heater output	15,300 watts
Maximum hose length	310 ft (94 m)
Hydraulic power requirements	1200 psi @10 gpm*
Weight	475 lbs (214 kg)
Ordering information	
246039	230 volt single phase, 85 full load amps
246756	230 volt three phase, 57 full load amps
246757	380 volt three phase with neutral, 43 full load amps

* Requires Hydraulic Power Pack 118430



E-20 | 246025



A-50 | 246038



A-25 | 246037



Reactor XP

ELECTRIC PROPORTIONERS

E-XP1

Maximum pressure 2500 (172 bar, 17.2 MPa)
 Output in gpm (lpm) 1.0 (3.8)
 Heater output 10,200 watts
 Maximum hose length 210 ft (64 m)
 Weight 342 (155 kg)

Ordering information

246024 230 volt single phase, 69 full load amps
246033 230 volt three phase, 43 full load amps
246029 380 volt three phase with neutral,
 24 full load amps

E-XP2

Maximum pressure 3500 (241 bar, 24.1 MPa)
 Output in gpm (lpm) 2.0 (7.6)
 Heater output 15,300 watts
 Maximum hose length 310 ft (94 m)
 Weight 438 lbs (199 kg)

Ordering information

246028 230 volt single phase, 100 full load amps
246036 230 volt three phase, 62 full load amps
246032 380 volt three phase with neutral,
 35 full load amps

AIR PROPORTIONERS

A-XP2

Maximum pressure 3000 psi (207 bar, 20.7 MPa)
 Output in gpm (lpm) 2.0 (7.6)
 Heater output 10,200 watts
 Maximum hose length 310 ft (94 m)
 Maximum air pressure 120 psi (8.3 bar, 0.83 MPa)
 Maximum air consumption 60 cfm
 Weight 400 lbs (180 kg)

Ordering information

246639 230 volt single phase, 63 full load amps
246752 230 volt three phase, 42 full load amps
246753 380 volt three phase with neutral,
 22 full load amps

HYDRAULIC PROPORTIONERS

H-XP3

Maximum pressure 3000 psi (207 bar, 20.7 MPa)
 Output in gpm (lpm) 3.0 (11.4)
 Heater output 15,300 watts
 Maximum hose length 310 ft (94 m)
 Hydraulic power requirements 1200 psi @ 10 gpm*
 Weight 485 lbs (218 kg)

Ordering information

246040 230 volt single phase, 84 full load amps
246758 230 volt three phase, 57 full load amps
246759 380 volt three phase with neutral,
 33 full load amps



E-XP2 / 246028



H-XP3 / 246040

* Requires Hydraulic Power Pack 118430

Technical Specifications

Technical Specifications

Mix ratio	1:1
Inlet ports	3/4 in npt(f)
Inlet ports, A-50/H-50	1 in npt(f)
Recirculation ports	1/4 in npsm(f)
Fluid filtration	20 mesh y-line inlet strainers

Temperature range

Operating environment	32° to 120° F (0° to 49° C)
Primary Fluid Heaters	Max 190° F (88° C)
Heated Hose	Max 180° F (88° C)

Wetted parts

Proportioner	Plated carbon steel, tungsten carbide, Teflon®, UHMWPE, nylon, acetal
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Instruction manual

Electric operation	309551
Air and hydraulic operation	309812
Electric repair	309574
Air and hydraulic repair	309813
Displacement pump (electric drive models)	309577
Fusion gun	309550
Heated hose	309572
Electric data reporting kit	309867
Air and hydraulic data reporting kit	309814
Feed pump kits	309815
Air supply kit	309827

Accessories

Fusion AP - Air Purge with Round Pattern

246099	AR2020 (000) mix chamber
246100	AR2929 (00) mix chamber
246101	AR4242 (01) mix chamber
246102	AR5252 (02) mix chamber
246103	AR6060 (03) mix chamber
246104	AR7070 (04) mix chamber
246105	AR8686 (05) mix chamber

Fusion AP - Air Purge with Flat Pattern

247101	AF2020 mix chamber with 0424 flat tip
247102	AF2020 mix chamber with 0438 flat tip
247107	AF2020 mix chamber with 0838 flat tip
247111	AF2929 mix chamber with 0424 flat tip
247112	AF2929 mix chamber with 0438 flat tip
247117	AF2929 mix chamber with 0838 flat tip
247118	AF2929 mix chamber with 0848 flat tip
247121	AF4242 mix chamber with 0424 flat tip
247122	AF4242 mix chamber with 0438 flat tip
247127	AF4242 mix chamber with 0838 flat tip
247128	AF4242 mix chamber with 0848 flat tip
247132	AF5252 mix chamber with 0438 flat tip
247137	AF5252 mix chamber with 0838 flat tip
247138	AF5252 mix chamber with 0848 flat tip

Fusion MP - Mechanical Purge with Round Pattern

247211	MR3535 mix module with RTM030 round tip
247212	MR3535 mix module with RTM040 round tip
247213	MR3535 mix module with RTM055 round tip
247218	MR4747 mix module with RTM040 round tip
247219	MR4747 mix module with RTM055 round tip
247225	MR5757 mix module with RTM055 round tip
247226	MR5757 mix module with RTM070 round tip
247231	MR6666 mix module with RTM070 round tip
247232	MR6666 mix module with RTM080 round tip
247233	MR6666 mix module with RTM090 round tip
247239	MR8282 mix module with RTM090 round tip
247240	MR8282 mix module with RTM100 round tip
247245	MR9494 mix module with RTM100 round tip
247246	MR9494 mix module with RTM110 round tip

Fusion MP - Mechanical Purge with Flat Pattern

247257	MF1818 mix module with FTM317 flat tip
247258	MF1818 mix module with FTM424 flat tip
247265	MF2929 mix module with FTM424 flat tip
247266	MF2929 mix module with FTM438 flat tip
247267	MF2929 mix module with FTM624 flat tip
247273	MF3535 mix module with FTM438 flat tip
247274	MF3535 mix module with FTM624 flat tip
247275	MF3535 mix module with FTM638 flat tip
247281	MF4747 mix module with FTM624 flat tip
247282	MF4747 mix module with FTM638 flat tip
247283	MF4747 mix module with FTM838 flat tip
247289	MF5757 mix module with FTM638 flat tip
247290	MF5757 mix module with FTM838 flat tip
247291	MF5757 mix module with FTM848 flat tip

Fusion MP - Mechanical Purge with Direct Impingement Mix Modules, Round Pattern

247006	XR2929 mix module with RTM030 round tip
247011	XR3535 mix module with RTM030 round tip
247007	XR2929 mix module with RTM040 round tip
247012	XR3535 mix module with RTM040 round tip
247013	XR3535 mix module with RTM055 round tip
247018	XR4747 mix module with RTM040 round tip
247019	XR4747 mix module with RTM055 round tip
247025	XR5757 mix module with RTM055 round tip
247026	XR5757 mix module with RTM070 round tip

Fusion MP - Mechanical Purge with Direct Impingement Mix Modules, Flat Pattern

247050	XF1313 mix module with FTM317 flat tip
247057	XF1818 mix module with FTM317 flat tip
247051	XF1313 mix module with FTM424 flat tip
247058	XF1818 mix module with FTM424 flat tip
247065	XF2929 mix module with FTM424 flat tip
247066	XF2929 mix module with FTM438 flat tip
247073	XF3535 mix module with FTM438 flat tip
247067	XF2929 mix module with FTM624 flat tip
247074	XF3535 mix module with FTM624 flat tip
247081	XF4747 mix module with FTM624 flat tip
247075	XF3535 mix module with FTM638 flat tip
247082	XF4747 mix module with FTM638 flat tip
247089	XF5757 mix module with FTM638 flat tip
247083	XF4747 mix module with FTM838 flat tip
247090	XF5757 mix module with FTM838 flat tip
247091	XF5757 mix module with FTM848 flat tip

Gun Accessories

246944	Manifold conversion kit; converts Graco manifold to fit a competitor gun
246945	Manifold conversion kit; converts competitor manifold to fit a Graco Fusion gun

Accessories

Reactor Electric Heated Hoses

2000 PSI Heated Hose (138 bar, 13.8 MPa)

Copper wound low voltage hose

- 246045** 1/4 in x 50 ft (6.3 mm x 15 m)
- 246074** 1/4 in x 50 ft (6.3 mm x 15 m), no thermocouple
- 246046** 3/8 in x 50 ft (9.5 mm x 15 m)
- 246678** 3/8 in x 50 ft (9.5 mm x 15 m), with scuff guard
- 246075** 3/8 in x 50 ft (9.5 mm x 15 m), no thermocouple
- 246047** 1/2 in x 50 ft (12.7 mm x 15 m)
- 246076** 1/2 in x 50 ft (12.7 mm x 15 m), no thermocouple
- 246048** 1/4 in x 25 ft (6.3 mm x 7.6 m)
- 246049** 3/8 in x 25 ft (9.5 mm x 7.6 m)

2000 PSI Heated Whip Hose (138 bar, 13.8 MPa)

- 246050** 1/4 in x 10 ft (6.3 mm x 3 m)
- 246051** 3/8 in x 10 ft (9.5 mm x 3 m)

3500 PSI Heated Hose (241 bar, 24.1 MPa)

Copper wound low voltage hose

- 246052** 1/4 in x 50 ft (6.3 mm x 15 m)
- 246053** 3/8 in x 50 ft (9.5 mm x 15 m)
- 246679** 3/8 in x 50 ft (9.5 mm x 15 m), with scuff guard
- 246054** 1/2 in x 50 ft (12.7 mm x 15 m)

3500 PSI Heated Whip Hose (241 bar, 24.1 MPa)

- 246055** 1/4 in x 10 ft (6.3 mm x 3 m), with scuff guard
- 246056** 3/8 in x 10 ft (9.5 mm x 3 m), with scuff guard

Heated Hose Accessories

- 246077** 10 ft (3 m) braided polyester mesh scuff guard
- 246805** 25 ft (7.6 m) braided polyester mesh scuff guard
- 246078** 50 ft (15 m) braided polyester mesh scuff guard
- 246456** 50 ft (15 m) polyethylene scuff guard
- 15C517** Heated hose jumper; use 25 ft (7.6 m) hose as whip
- 15C626** 25 ft (7.6 m) FTS cable
- 15B296** 50 ft (15 m) FTS cable

Supply Pumps and Packages

Supply Pumps with Drum Riser Tube

- 246654** TRITON 308 diaphragm pump
- 246366** Husky 515 diaphragm pump
- 246367** Husky 716 diaphragm pump
- 246368** Husky 1040 diaphragm pump
- 226040** 2:1 standard piston pump

Supply Pump Systems with Fluid Plumbing

Includes two supply pumps and fluid inlet hose

- 246677** TRITON 308 (246654), 6 ft x 1 in (1.8 m x 25 mm) inlet hose
- 246481** Husky 515 (246366), 6 ft x 1 in (1.8 m x 25 mm) inlet hose
- 246482** Husky 716 (246367), 6 ft x 1 in (1.8 m x 25 mm) inlet hose
- 246676** Husky 1040 (246368), 10 ft x 1 in (3 m x 25 mm) inlet hose
- 246898** 2:1 standard piston pump

Complete Supply Pump Systems

Includes two supply pumps, air and fluid hoses, all fittings and air distribution kit

- 246655** Complete TRITON 308 (246677) supply pump system
- 246369** Complete Husky 515 (246481) supply pump system
- 246375** Complete Husky 716 (246482) supply pump system
- 246376** Complete Husky 1040 (246676) supply pump system
- 246081** Complete 2:1 standard (246040) supply pump system

Supply Pump Accessories

- 246419** 55 gal (208 l) feed pump tube with check
- 246477** 3/4 in (19 mm) bung return tube with air dryer port
- 246483** Air supply kit for two supply pumps and Fusion gun, 120 psi (8.4 bar, 0.84 MPa)
- 246640** Desiccant dryer kit
- 15C381** Desiccant replacement

Agitators

- 236629** Twistork® SST, air-operated with built-in return tube, 3/4 HP, 47.5 in (1.2 m) length
- 224854** Twistork CS, air-operated, 1-1/2 HP, 37.3 in (0.9 m) length
- 235534** Twistork SST, air-operated, 1-1/2 HP, 37.3 in (0.9 m) length

Reactor Accessories

- 246978** Reactor manifold circulation kit with return tubes, return fluid lines and dryers
- 246362** Connects to Fusion gun manifold and allows for quick preheat of hose and material (does not include circulation lines)
- 246085** Electric data reporting kit
- 246086** Air and hydraulic data reporting kit
- 15B742** 50 ft (15 m) extension cable for Smart Mix control panel
- 15B805** Trailer mounting bracket
- 15B593** Smart Mix display peel-off protectors

Reactor Heat Packages

- 246365** 6000 watt, 230 volt single phase
- 246760** 6000 watt, 230 volt three phase
- 246761** 6000 watt, 380 volt three phase with neutral
- 246607** 10,200 watt, 230 volt single phase
- 246762** 10,200 watt, 230 volt three phase
- 246763** 10,200 watt, 380 volt three phase with neutral
- 246364** 15,300 watt, 230 volt single phase
- 246764** 15,300 watt, 230 volt three phase
- 246765** 15,300 watt, 380 volt three phase with neutral

Hydraulic Power Pack

- 118430** 1200 psi (83 bar, 8.3 MPa), 10 gpm (38 lpm) with 30 gal (114 l) reservoir; includes all supply and return plumbing 230 volt 60 Hz or 380 volt 50 Hz

ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology which set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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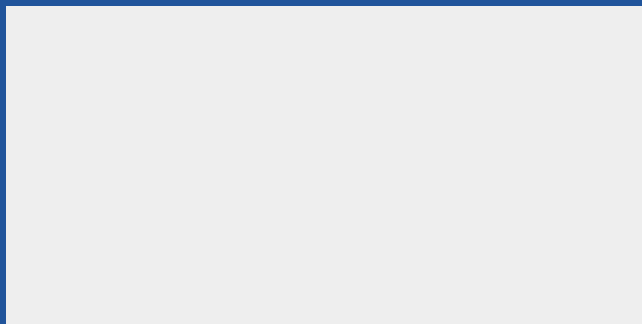
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All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Graco Inc. is registered to I.S. EN ISO 9001



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