

# Reactor™ Spray Foam and Polyurea Equipment

For fast-set plural-component applications



# **Graco Has You Covered**

# No matter what the application, Graco has the solution

Whether you're spraying foam or applying polyurea coatings, Graco Reactor® Plural-Component Systems help you get the job done with superior results. Available in air, electric or hydraulic technology — we have the right equipment to meet your needs.

# Which system is right for you?

Technology types: A = air; E = electric; H = hydraulic



Portable and Touch-up Systems

SPRAY FOAM	COATINGS
APPLICATIONS	APPLICATIONS
E-10	E-10hp



Entry-level Systems

SPRAY FOAM	COATINGS
APPLICATIONS	APPLICATIONS
A-25 E-20	A-XP1 E-10hp E-XP1



Mid-production Systems

SPRAY FOAM	COATINGS		
APPLICATIONS	APPLICATIONS		
E-30	E-XP2		
H-30	H-XP2		



High-production Systems

SPRAY FOAM	COATINGS
APPLICATIONS	APPLICATIONS
H-40 H-50	Н-ХРЗ

### **Three-Year Extended Warranty**

We stand behind every piece of equipment we manufacture with one of the industry's strongest warranties.

Spray with the confidence that you will probably never need to use Graco's warranty,
but if you do — Graco Has You Covered.

Reactor 2 systems offer a three-year extended warranty on control modules, display module and electric motor (E-series only).

See product manual for specific warranty details.



Turnkey Systems

SPRAY FOAM	COATINGS		
APPLICATIONS	APPLICATIONS		
E-30i	E-XP2i		



# **Understand Spray Performance**

Performance charts with mix chamber choices

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

#### How to use these charts

- Select spray pressure
- Select mix chamber or flow rate
- Choose equipment model

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

### **Spray Foam Example**

Mix chamber: AR6060 (03)
Pressure: 85 bar (1250 psi)
Flow rate: 10 kg/min (22 lb/min\*)
Reactors H-30, E-30, H-40, H-50

#### **Coatings Example**

Mix chamber: AR2929 (00)
Pressure: 105 bar (1500 psi)
Flow rate: 3,4 l/min (0.9 gpm\*)

Reactors E-XP1, E-XP2, H-XP2, H-XP3, E-10hp

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

# **Applications**

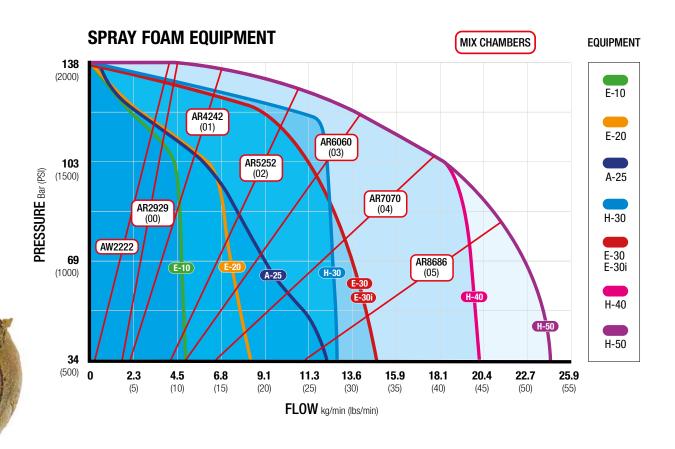
#### **Spray Foam**

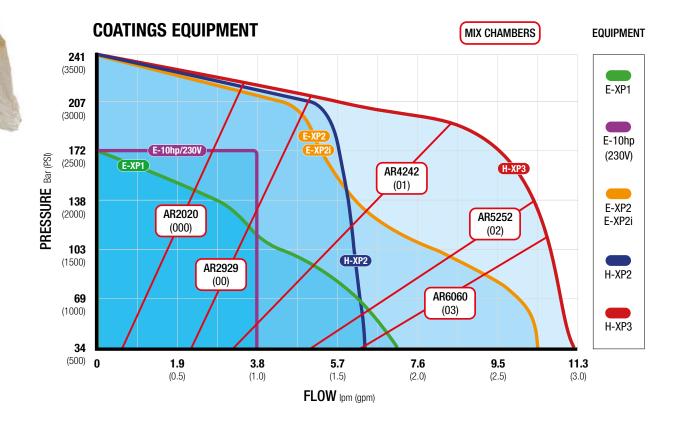
- Residential & commercial wall insulation
- Aerospace
- · Concrete lifting
- Rim and band joist
- Roof insulation

#### **Protective Coatings**

- · Adhesive and caulking for flooring
- Decorative coatings
- · Marine and shipbuilding
- Tank and pipe coating
- Waterproofing
- Wastewater treatment
- Truck bedliners







# Advancing the Industry

Like you, we want customers to be completely satisfied with their spray foam and coatings application investment. Graco's goal is to provide equipment advancements that help you and your crews apply materials more accurately and more efficiently — as the material suppliers intended, to help grow your business.

#### **Better control**



### Advanced control technology

Advanced Display Module (ADM) is the standard interface for all Reactor 2 systems. With the ability to track, monitor and save project information, the ADM also has the ability to download data onto a USB drive for further analysis.

#### Screen shown:

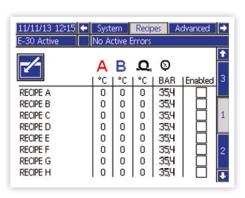
Drum fluid levels — easy indication when you are running low on chemical. One of many screens available on the ADM.

### Graco InSite™Remote Reporting Technology

The power to control your business — wherever you are. The information Graco InSite gathers can save you money, help you bid jobs more accurately and troubleshoot problems more quickly, saving lost overhead and revenue. The data it collects is stored and available anywhere you can access the Internet. For full Graco InSite details and to navigate a demo, visit gracoinsite.com! Graco InSite is standard on Reactor 2 Elite models.



# **Better spray performance**



#### Precise material application

The ADM lets you stores up to 24 material recipes, so switching material spray parameters is fast, easy and trouble-free. By reducing human error in entering set points you're more likely to spray material as the material supplier intended.



#### **Easier to service**

Try it now!



### Reduce your downtime with QR codes

Error codes appear on your ADM with a helpful QR code. The QR codes explain the problem and provide solutions by simply scanning the code with your smart phone or device. The scan takes you directly to help.graco.com that provides up-to-date advanced trouble shooting information.

# **Peace of mind**

#### Advanced electronics

Graco designed the electronics in the Reactor 2 systems to a stringent electronics reliability standard. These modules are more robust and able to withstand a wider range of power spikes or surges.





### Sacrificial Surge Protector for added protection

As an added level of protection, Graco also added a sacrificial surge protector to Reactor 2 systems. If there is an excessive power spike, you only have to replace this smaller, less expensive part — not the entire control module. All Reactor 2 models include a spare sacrificial surge protector to get you back up and running immediately.



# Portable & Touch-up Systems

What portable & touch-up systems can do for you:

- Save time get smaller jobs done fast without sacrificing performance
- Self-contained system no transfer pumps required
- Easy to use single knob motor operations
- Provides consistency uses standard spray guns you're familiar with

#### Reactor E-10hp

# Fast start-up time for improved productivity

Expand your business with polyurea applications. The Reactor E-10hp sprayer is a smart, affordable investment that will help grow your business. Even though it's an entry level system, it packs plenty of power and uses standard residential electrical outlets — no generator is needed.

#### • Allows you to enter the exact temperatures you need Low Level Sensors . Uses the same control boards as a standard Reactor • Indicates when material is low (3.8 L /1 gal remaining) · No contact with materials -Motor prevents build-up • Offers 50% more power than the Reactor E-10 • Provides improved spray performance with reduced pressure drop **Boost Heat** • Directs unused power from the motor circuit to additional heater rods Additional heater power brings material to desired temperatures faster during recirculation mode Reactor E-10h **Insulated Tanks** • Double-wall insulated to retain heat · Smooth interior lining for easy cleaning • Improved seal design on lid for better moisture control Robust Hybrid Heater Quick knockdown **Lower Pumps** · More power, faster material handling means · Easy disassembly and maintenance more uptime Temperature Gauges in Y-strainers

Digital Heat Controls

Provides accurate tank temperature readings

#### Reactor E-10

# Save up to 30% on material costs compared to disposable foam systems

Reactor E-10 sprayers are ideal for plural-component spray, joint-fill jobs and touch-ups. One person operation saves time and money!

### Intuitive Controls

- Easy start and stop
- Digital temperature display

#### Heater and Hose

• Gives up to 2000 watts to pre-heat circulating material

#### **Electric Motor**

- Improved performance
- Reduces operating costs

#### Power

• Electric power is a low draw and plugs into standard outlets



# **Entry Level Systems**

#### Reactor E-20 & E-XP1

# **Durability you've come to expect**

Equipped with material data and system diagnostics, the Reactor E-20 and E-XP1 systems provide total control for spraying foam insulation and coatings.



# What an entry level system can do for you:

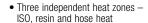
- Easy to manoeuvre wheeled carts let you get closer to the job
- Easy to use best for low to medium-output applications
- Affordability excellent value for residential and commercial use

#### Reactor A-25 & A-XP1

### Best choice for affordability

The Reactor A-25 and A-XP1 system has the ability to maintain consistent temperature control, even when you're spraying at maximum flow rates — resulting in better quality foam. Have peace of mind with the proven durability of a standard Graco quality air motor.





- Provide accurate heat control for reliable spraying to handle different chemical viscosities
- Digital temperature controls

#### DataTrak™ Control

• Resettable counter tracks material usage

### NXT® Air Motor

- Low air consumption for increased efficiency
- Muffler provides low operating noise levels
- Air valve provides smooth and rapid changeover

### Recirculation Manifold

 A quick, easy way to balance system pressures

#### **Hybrid Heater**

 Provides better temperature control

#### ISO Pump Lube System

 Prevents isocyanate crystallization on the pump seal and shaft

### Quick Knockdown Pumps

- Allows for easy service
  - Fast disassembly

# **Mid-production Systems**

## What an electric system can do for you:

- Increase productivity plenty of power for most residential and commercial applications
- Smooth and consistent spray pattern minimizes pressure fluctuations on pump changeover
- Free up space in trailer or rig smaller footprint when compared to other spray systems



#### Reactor 2 Electric Series

#### Proven reliability at an outstanding value

With proven reliability the Reactor 2 E-series is the industry's preferred system. Reactor 2 stand-alone models are available in an E-30 and E-XP2 model.

#### **Advanced Controls**

- Easy to operate Advanced Display Module interface
  - Graco InSite Remote Reporting Technology\*

#### Ergonomic Set-up

 Electronics are above the pumps – comfortable working height for easier service

#### Brushless Electric Motor

- Improved control and performance
  - No maintenance needed
    - Longer life

#### Easy Troubleshooting Diagnosis

- Troubleshooting Y-strainer for analog temperature and pressure gauges
  - Inlet pressures and temperatures sensor are displayed and recorded on ADM and Graco InSite\*

#### Sleek Design

• 40% smaller footprint than traditional Reactor E-30

#### \*Elite Models

- Graco InSite comes factory installed
- Inlet pressure and temperature sensors (interfaces with Graco InSite)
- Xtreme-Wrap™ Scuff Guard on heated hoses when ordered as a package

# **High-production Systems**

### What a hydraulic system can do for you:

- **Dependability** robust, durable, longest life spray system
- Reduce downtime allows for longer time in between required maintenance
- Increase daily productivity capable of extremely high duty cycle

#### Reactor 2 Hydraulic Series

# Highest value for the best performance

Graco's line of hydraulic Reactors brings increased yield and performance to high-output spraying. Ideal for in-plant OEMs or applicators that spray high volume. Reactor 2 stand-alone models are available in an H-30, H-40, H-50, H-XP2 and H-XP3.

#### **Advanced Controls**

- Easy to operate Advanced Display Module interface
- Graco InSite Remote Reporting Technology\* (Included on Elite models)

#### Ergonomic Set-up

• Electronics are above the pumps - comfortable working height for easier service

#### **Voltage Jumpers**

 Available on H-30 and H-XP2 (Inside Electronics Cabinet) allows for one model to be wired to different voltages

#### Horizontal Pump Line

• Slower cycle rate

#### Easy Troubleshooting Diagnosis

- Troubleshooting Y-strainers for analog temperature and pressure gauges
- Inlet pressure and temperature is displayed and recorded on ADM and Graco InSite\*

#### Reversing Sensors

• Non-contact for longer life

#### Consistent Design

• Similar footprint to traditional H-series

#### \*Elite Models

- · Graco InSite included
- Inlet pressure and temperature sensors (interfaces with Graco InSite)
- Xtreme-Wrap™ Scuff Guard on heated hoses when ordered as a package

# Revolutionize the way you run your business

Each feature in the Reactor 2 system was strategically designed to help your business run smoothly. Software and hardware enhancements for better spray performance. New technologies that add to your bottom line.



# **Turnkey Systems**



#### Calculate your savings at www.graco.com/integrated

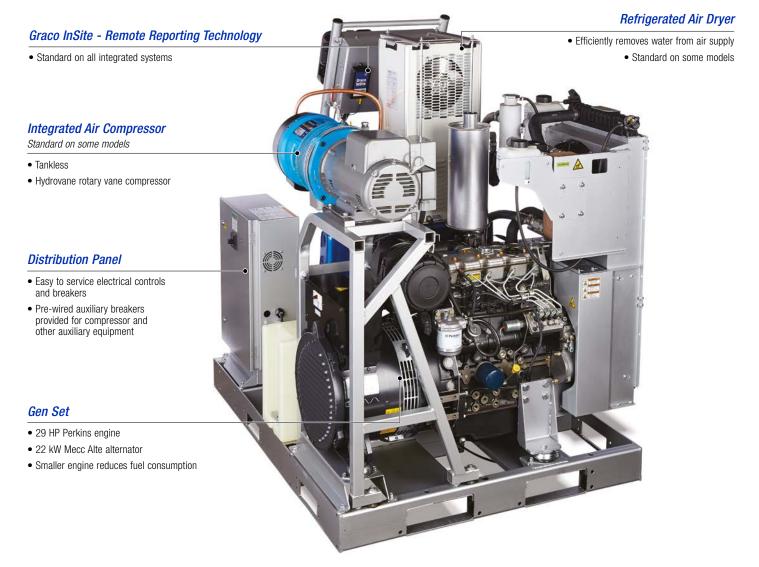
# What a turnkey system can do for you:

- Save time it's easy to install into a spray rig since it's pre-wired with components already selected and installed
- Save diesel fuel costs an average of 50% annually\*
- Eliminate costly power issues associated with shore power and low cost generators
- Improved heating capacity adjust temperatures quickly to minimize downtime during recirc
- Reduce fuel costs even more compact, portable design fits into a smaller trailer; smaller trailer means a smaller truck

#### Reactor 2 E-30i and E-XP2i

### Ready for the job site or spray rig - right out of the box

A complete integrated system combines an electric Reactor system, diesel generator, air compressor and air dryer into one package. This patent-pending design provides constant, steady temperature control for superior heating performance without wasting energy. Waste heat from the generator is repurposed to heat the material allowing for a smaller generator.



# **Equipment For Spray Foam Applications**

**Graco Has You Covered** 









	Air (A Series)	Electric (E Series)		
MODEL	A-25	E-10	E-20	Reactor 2 E-30
Max Working Pressure	138 bar (2000 psi, 13.8 MPa) 800 l/min (28 scfm) air consumption@100 psi	138 bar (2000 psi, 13.8 MPa)	138 bar (2000 psi, 13.8 MPa)	138 bar (2000 psi, 13.8 MPa)
Min Working Pressure	N/A	N/A	N/A	N/A
Max Hose Length	64 m (210 ft)	32 m (105 ft)	64 m (210 ft)	94 m (310 ft)
Max Fluid Temp	88°C (190°F)	71°C (160°F)	88°C (190°F)	88°C (190°F)
Output	11.4 kg (25 lb)/min	5.4 kg (12 lb)/min	9 kg (20 lb)/min	13.6 kg (30 lb)/min
Weight	140.6 kg	Heated: 72 kg Unheated: 68 kg	155 kg	161 kg
Graco InSite Compatible	No	No	Yes	Yes
Ordering Information	With 6.0 kW heater: 262614  *Amps 230V, 1-ph — 40A 230V, 3-ph — 32A 400V, 3-ph — 18.5A	With 1.7 kW heater: 120V, 2-cord 249570  With 2.0 kW heater: 240V, 2-cord 249571  240V, 1-cord 249572  Unheated ambient system: 120V 249576  240V 249577	With 6.0 kW heater:  230V, 1-ph — 48A 259025  230V, 3-ph — 32A 259034  400V, 3-ph — 24A 259030	With 10.2 kW heater:  272110 - Elite  272010 - standard  With 15.3 kW heater:  272111 - Elite  272011 - standard  *Amps  10kW:  230V, 1-ph — 78A  230V, 3-ph — 50A  400V, 3-ph — 34A  15kW:  230V, 1-ph — 100A  230V, 3-ph — 62A  400V, 3-ph — 35A
Packages	‡	‡	‡	‡
Operation manual	3A1569	311075	312065	333023
Repair manual	3A1570	311075	312066	333024

<sup>\*</sup>Reactor systems can be wired for all voltages: 230V - 1ph; 230V - 3ph; 400V - 3ph

‡ Basic packages available

#### **‡ Basic packages**

Most Reactor systems are available in a basic package, which includes:

• System • Whip hose • Spray hose • Choice of gun Fusion® AP, CS or Probler® P2

To order this package, replace the first two part numbers with the gun type. Fusion AP = AP; Fusion CS = CS; Probler P2 = P2

For example: System 272110 in a basic package with a Fusion AP gun, becomes part number AP2110









Electric (E Series)	Hydraulic (H Series)		
Reactor 2 E-30i	Reactor 2 H-30	Reactor 2 H-40	Reactor 2 H-50
138 bar (2000 psi, 13.8 MPa)	138 bar (2000 psi, 13.8 MPa)	138 bar (2000 psi, 13.8 MPa)	138 bar (2000 psi, 13.8 MPa)
N/A	48 bar (700 psi, 4.8 MPa)	41 bar (600 psi, 4.1 MPa)	41 bar (600 psi, 4.1 MPa)
94 m (310 ft)	94 m (310 ft)	125 m (410 ft)	125 m (410 ft)
88°C (190°F)	88°C (190°F)	88°C (190°F)	88°C (190°F)
13.6 kg (30 lb)/min	10.5 kg (24 lb)/min	17 kg (37 lb)/min	20 kg (44 lb)/min
793.7 kg - without compressor 998 kg - with compressor	10 kW: 247 kg 15 kW: 252 kg	272 kg	272 kg
Yes	Yes	Yes	Yes
Without Compressor: 272079 Aux. power available: 52A at 240V 272080 (Booster Heat) Aux. power available: 35A at 240V With Compressor: 272089 Aux. power available: 22A at 240V 272090 (Booster Heat) Aux. power available: 5A at 240V Other Specs: Compressor: Hydrovane 5 HP, 16cfm, 240V, 1-ph, 60 Hz Air Dryer: Hankison, refrigerated 22 scfm, 115V, 1-ph, 60 Hz Engine: Perkins 404-22G, 2.2 L, 29 HP Generator: Mecc Alte 22 kW, 240V, 1-ph, 60 Hz, pancake style	With 10.2 kW heater:  17H131 - Elite 17H031 - standard  With 15.3 kW heater:  17H132 - Elite 17H032 - standard  *Amps 10kW: 230V, 1-ph — 79A 230V, 3-ph — 46A 400V, 3-ph — 35A  15kW: 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 59A	With 15.3 kW heater: 230V, 3-ph — 71A 17H143 - Elite 17H043 - standard  400V, 3-ph — 41A 17H145 - Elite 17H045 - standard  With 20.4 kW heater: 230V, 3-ph — 95A 17H144 - Elite 17H044 - standard  400V, 3-ph — 52A 17H146 - Elite 17H046 - standard	With 20.4 kW heater: 230V, 3-ph — 95A 17H153 - Elite 17H053 - standard  400V, 3-ph — 52A 17H156 - Elite 17H056 - standard
‡	‡	‡	‡
332636	334945	334945	334945
332637	334946	334946	334946

<sup>\*</sup>Reactor systems can be wired for all voltages: 230V - 1ph; 230V - 3ph; 400V - 3ph

‡ Basic packages available

#### **‡ Basic packages**

Most Reactor systems are available in a basic package, which includes:

• System • Whip hose • Spray hose • Choice of gun Fusion® AP, CS or Probler® P2

To order this package, replace the first two part numbers with the gun type. Fusion AP = AP; Fusion CS = CS; Probler P2 = P2

For example: System 272110 in a basic package with a Fusion AP gun, becomes part number AP2110

# **Equipment For Coatings Applications**

**Graco Has You Covered** 











	Air (A Series)	Electric (E Series)			
MODEL	A-XP1	E-10hp	E-XP1	Reactor 2 E-XP2	Reactor 2 E-XP2i
Max Working Pressure	240 bar (3500 psi, 24.0 MPa)	172 bar (2500 psi, 17.2 MPa)	172 bar (2500 psi, 17.2 MPa)	240 bar (3500 psi, 24.0 MPa)	240 bar (3500 psi, 24.0 MPa)
Min Working Pressure	N/A	N/A	N/A	N/A	N/A
Max Hose Length	64 m (210 ft)	32 m (105 ft)	64 m (210 ft)	94 m (310 ft)	94 m (310 ft)
Max Fluid Temp	88°C (190°F)	77°C (170°F)	88°C (190°F)	88°C (190°F)	88°C (190°F)
Output	5.7 L (1.5 gal) / min	3.8 L (1 gal) / min	3.8 L (1 gal) / min	7.6 L (2 gal) / min	7.6 L (2 gal) / min
Weight	140.6 kg	108 kg	155 kg	159 kg	793.7 kg - w/ compressor 998 kg - w/o compressor
Graco InSite Compatible	No	No	Yes	Yes	Yes
Ordering Information	With 10.2 kW heater: 24Y165 230V, 1-ph — 56A 230V, 3-ph — 46A 400V, 3-ph — 26A	120V 24T100 230V 24T901	With 10.2 kW heater:  230V, 1-ph — 69A 259024  230V, 3-ph — 43A 259033  400V, 3-ph — 24A 259029	With 15.3 kW heater: 272112 - Elite 272012 - standard  *Amps 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 35A	Without Compressor: 272081 Aux. power available: 35A at 240V With Compressor: 272091 Aux. power available: 5A at 240V Other Specs: Compressor: Hydrovane 5 HP, 16cfm, 240V, 1-ph, 60 Hz Air Dryer: Hankison, refrigerated 22 scfm, 115V, 1-ph, 60 Hz Engine: Perkins 404-22G, 2.2 L, 29 HP Generator: Mecc Alte 22 kW, 240V, 1-ph, 60 Hz, pancake style
Packages	‡	‡	‡	‡	‡
Operation manual	3A1569	332144	312065	333023	332636
Repair manual	3A1570	332144	312066	333024	332637

<sup>\*</sup>Reactor systems can be wired for all voltages: 230V - 1ph; 230V - 3ph; 400V - 3ph

‡ Basic packages available

#### **‡** Basic packages

Most Reactor systems are available in a basic package, which includes:

• System • Whip hose

Spray hose

Choice of gun Fusion® AP or Probler® P2

To order this package, replace the first two part numbers with the gun type. Fusion AP = AP; Probler P2 = P2 For example: System 272112 in a basic package with a Fusion AP gun, becomes part number AP2112

Coating units are not equiped with the Fusion CS gun

# Build a complete system!





Hydraulic (H Series)		
Reactor 2 H-XP2	Reactor 2 H-XP3	
240 bar (3500 psi, 24.0 MPa)	240 bar (3500 psi, 24.0 MPa)	
83 bar (1200 psi, 8.3 MPa)	59 bar (850 psi, 5.9 MPa)	
310 ft (94 m)	125 m (410 ft)	
88°C (190°F)	88°C (190°F)	
4.8 L (1.25 gal) / min	9.0 L (2.4 gal) / min	
252 kg	272 kg	
Yes	Yes	
With 15.3 kW heater:	With 20.4 kW heater:	
17H162 - Elite 17H062 - standard *Amps 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 35A	230V, 3-ph — 95A  17H174 - Elite 17H074 - standard  400V, 3-ph — 52A 17H176 - Elite 17H076 - standard	
‡	‡	
334945	334945	
334946	334946	



# (1) SELECT A SYSTEM

Choose an air, electric or hydraulic model.

#### **KEY FEATURES:**

- Optional data reporting capabilities
- Foam models rated at 138 bar (2000 psi, 13.8 MPa)
- Coatings models rated up to 240 bar (3500 psi, 24.0 MPa)

# (2) SELECT HEATED HOSES

Choose from pressure ratings of 138 to 240 bar (2000 psi or 3500 psi, 13.8 to 24.0 MPa). Choose 3/8 in or 1/2 in ID.

# (3) SELECT HEATED WHIP HOSE

Choose from pressure ratings of 138 to 240 bar (2000 psi or 3500 psi, 13.8 to 24.0 MPa). Choose 1/4 in or 3/8 in ID.

# (4) SELECT A GUN

Choose an air-purge, mechanical-purge or liquid-purge gun with a round or flat pattern.

#### SELECT SUPPLY PROCESSING EQUIPMENT

# 5 SUPPLY PUMP

Choose from diaphragm or piston pumps for standard materials in drum-mount or wall-mount. Select a 2:1 piston pump for materials with higher viscosities.

# 6 AGITATOR KITS

Choose a kit to agitate your resin for a consistent coating. Graco's patented Twistork® agitators are very low shear to minimize material frothing.



#### **ABOUT GRACO**

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 that 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.

#### **GRACO LOCATIONS**

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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 is certified ISO 9001.

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