



# Reactor™ Spray Foam and Polyurea Equipment

For fast-set plural-component applications



PROVEN QUALITY. LEADING TECHNOLOGY.

# 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

## Entry-level Systems

## Mid-production Systems

## High-production Systems

SPRAY FOAM APPLICATIONS		COATINGS APPLICATIONS		SPRAY FOAM APPLICATIONS		COATINGS APPLICATIONS		SPRAY FOAM APPLICATIONS		COATINGS APPLICATIONS					
E-10		E-10hp		A-25 E-20		A-XP1 E-XP1		E-30 H-30		E-XP2 H-XP2		H-40 H-50		H-XP3	

### 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.



# 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 and a 50 Hz power line frequency.

## 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

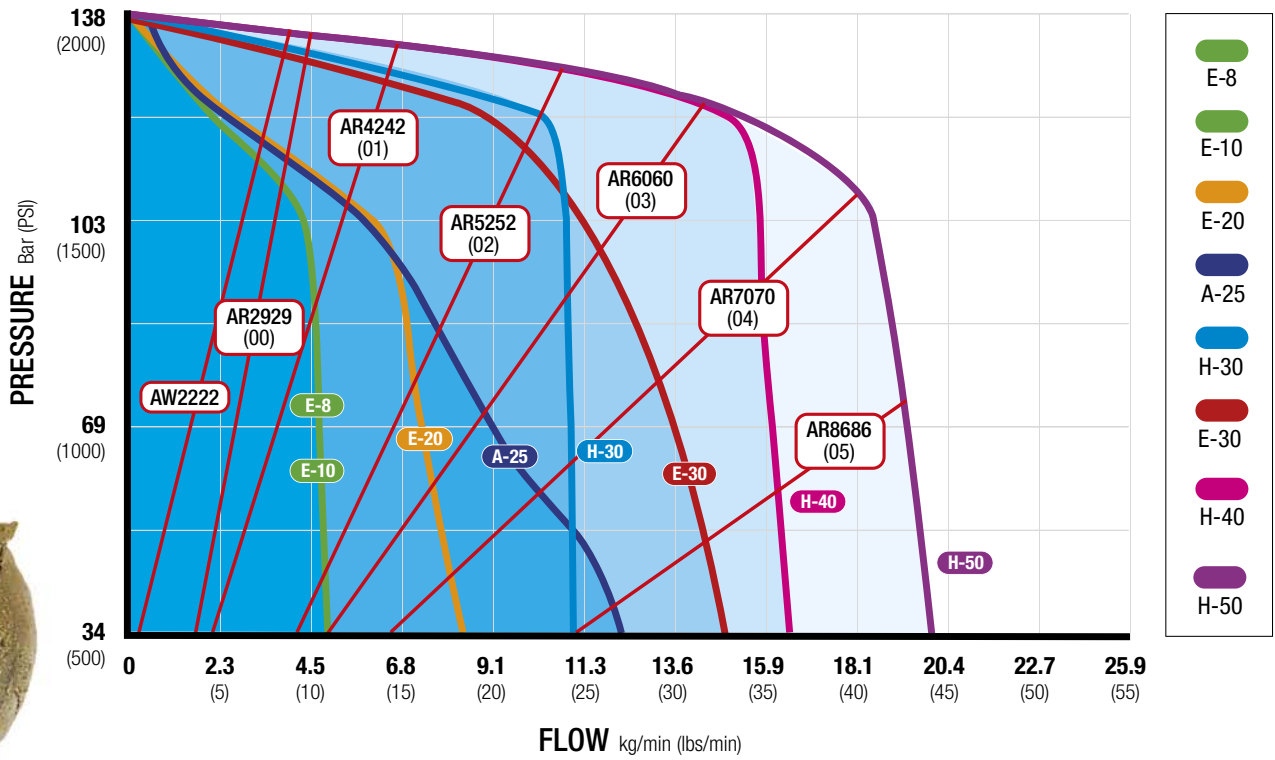
*Electric unit performance curves are based on typical spraying conditions. Periods of continuous spraying or very high ambient temperatures reduce the performance envelop. Hydraulic system performance curves allow for continuous spray conditions.*



## SPRAY FOAM EQUIPMENT

MIX CHAMBERS

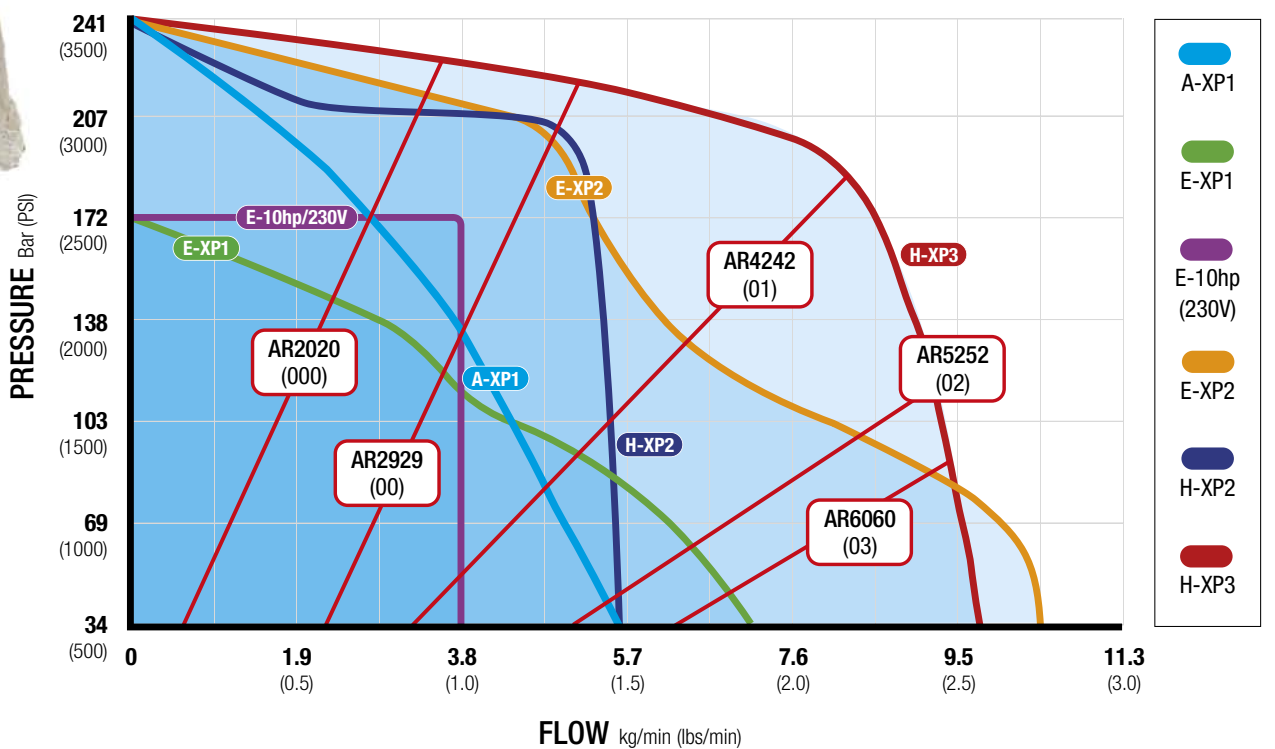
EQUIPMENT



## COATINGS EQUIPMENT

MIX CHAMBERS

EQUIPMENT



# 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.*

## Easier to service



### 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](http://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.



# New Reactor Technology

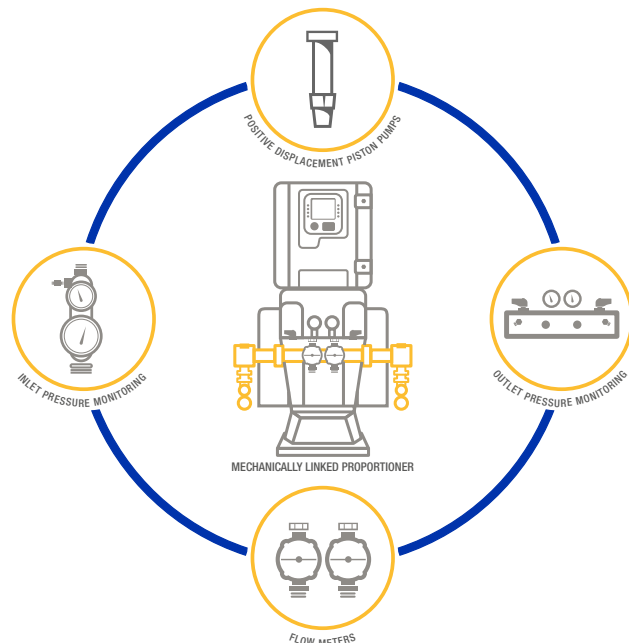
## Ratio Assurance

Since no single method can easily and accurately detect all potential issues that may cause off-ratio foam or polyurea to be sprayed, Graco has designed a multi-tiered system with built in redundancies that will provide the best results in monitoring and maintaining on-ratio spraying.

### A robust Ratio Control System is more than just flow meters:

- Mechanically linked pumps
- Outlet pressure monitoring
- Positive displacement piston pumps
- Flow meters
- Inlet pressure monitoring

Ratio Assurance is now included with all new Reactor 2 elite models. Retrofit kits are available for any Reactor 2 model in the field.



### For more information visit:

[www.graco.com/ratioassurance](http://www.graco.com/ratioassurance)

## Reactor Connect

The Reactor Connect App lets you view your fleet and make real time adjustments to your proportioner all from your smartphone.

### Sprayers:

- Control your Reactor 2 with your phone
- Save time when you're spraying. Adjust the Reactor without having to go back to your rig.

### Owners/Managers:

- Monitor your rigs/crews with the multi-system dashboard
- Troubleshoot an issue quickly by being able to see real-time machine conditions
- Provide documentation to a customer that material was sprayed on-ratio to the manufacturers specs
- Use reports to better understand your business, your equipment and your employees
- Have your spray data saved to the cloud



### For more information visit:

[www.graco.com/reactorapp](http://www.graco.com/reactorapp)

[www.reactorconnect.graco.com](http://www.reactorconnect.graco.com)

# 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-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





## 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.

#### Low Level Sensors

- Indicates when material is low (3.8 L / 1 gal remaining)
- No contact with materials – prevents build-up

#### 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

#### Insulated Tanks

- Double-wall insulated to retain heat
- Smooth interior lining for easy cleaning
- Improved seal design on lid for better moisture control

#### Quick knockdown Lower Pumps

- Easy disassembly and maintenance

#### Temperature Gauges in Y-strainers

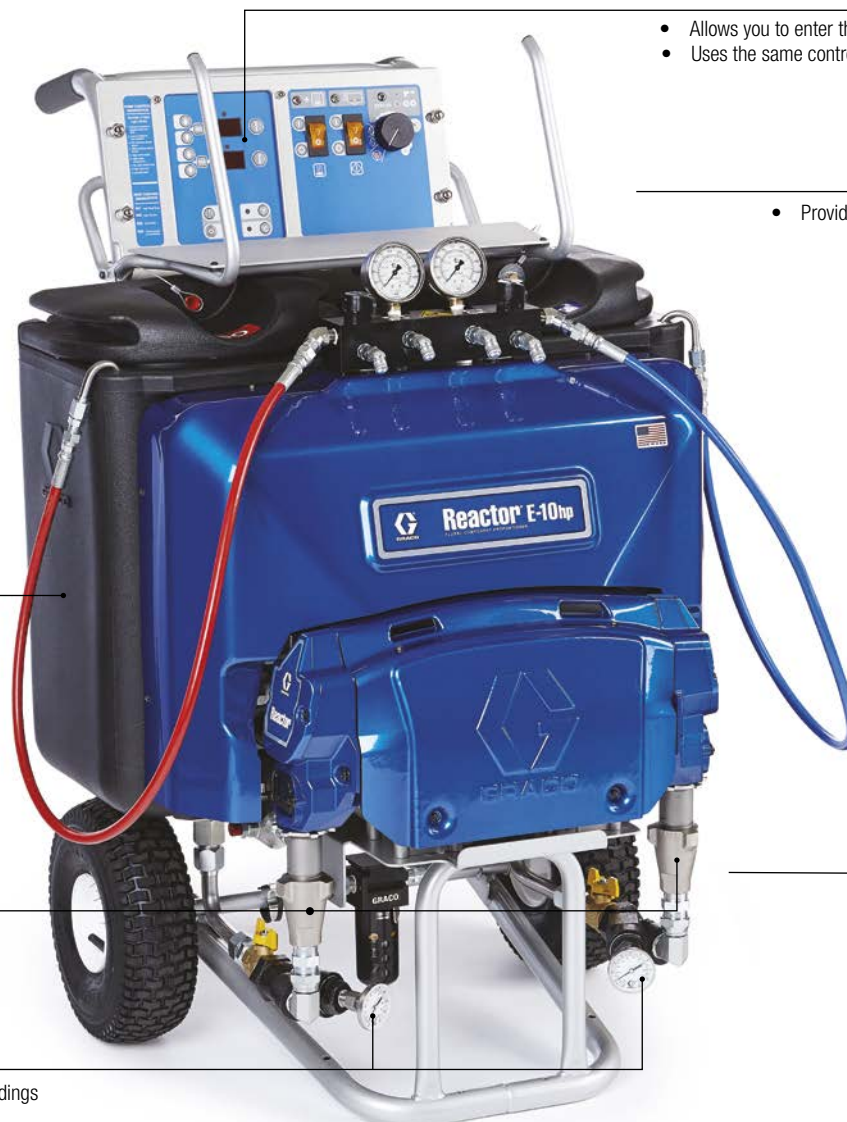
- Provides accurate tank temperature readings

#### Digital Heat Controls

- Allows you to enter the exact temperatures you need
- Uses the same control boards as a standard Reactor

#### Motor

- Provides improved spray performance with reduced pressure drop



#### Robust Hybrid Heater

- More power, faster material handling means more uptime

# Entry Level Systems

## 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 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.

#### Reliability

- Powerful hybrid heaters
- Accurate heating with precise temperature sensing

#### Simple Control

- Digital heat and pressure controls

#### Heater Control Boards

- Longer-lasting modular heater
- Minimize downtime

#### Pumps

- Quick knockdown for easy maintenance

#### Hose Heat Transformer

- Does not require tap settings



## 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 or coatings. Have peace of mind with the proven durability of a standard Graco quality air motor.

#### Three Heat Zones

- Three independent heat zones – ISO, resin and hose heat
- Provide accurate heat control for reliable spraying to handle different chemical viscosities
- Digital temperature controls

#### Recirculation Manifold

- A quick, easy way to balance system pressures

#### Hybrid Heater

- Provides better temperature control



#### 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

#### 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 models are available as an E-30 and E-XP2. Additional mid-production models include the H-30 and H-XP2. These models and their details are found on page 14.



#### *Advanced Controls*

- Easy to operate Advanced Display Module interface
  - Reactor Connect App included with all models

#### *Ergonomic Set-up*

- Electronics are above the pumps – comfortable working height for easier service
- 40% smaller footprint than traditional Reactor E-30

#### *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 Reactor App

#### *Resistance Control Mode*

- Provides full hose temperature control without RTD cables or Fluid Temperature Sensor
  - Increased material yield and productivity
  - Less downtime and repair costs

Standard

## Ratio Display

Recipe	Temp	Pressure	Ratio
A	70 °F	0 psi	100:1
B	75 °F	0 psi	
Q	70 °F	0 psi	

## Reactor Smart Control

- RSC will automatically make adjustments to the Reactor to attempt to prevent off-ratio dispensing.  
\*only available for E-30 & E-XP2 models

## ADM Set-up: System Screen

- Updated ADM set-up screen to allow easy configuration of flow meters and enabling alarms

Option	Value
Enable Pressure Imbalance Alarms	500 psi
Enable Pressure Imbalance Deviations	1000 psi
Accessory Selection	Flowmeter
Enable Ratio Alarms	5 %
Enable Inlet Sensors	
Enable Reactor Smart Control	
Enable Low Chemical Alarms	5 gal

## Oval Gear Flow Meters

- Simple and robust design
- Ideally suited for high flow rate measurements
- Accuracy of  $\pm 1\%$  once factory calibrated

## Elite Models

- Flowmeters comes factory installed
- Inlet pressure and temperature sensors included
- Xtreme-Wrap™ Scuff Guard on heated hoses when ordered as a package



Elite

# 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
- Reactor Connect App included with all 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

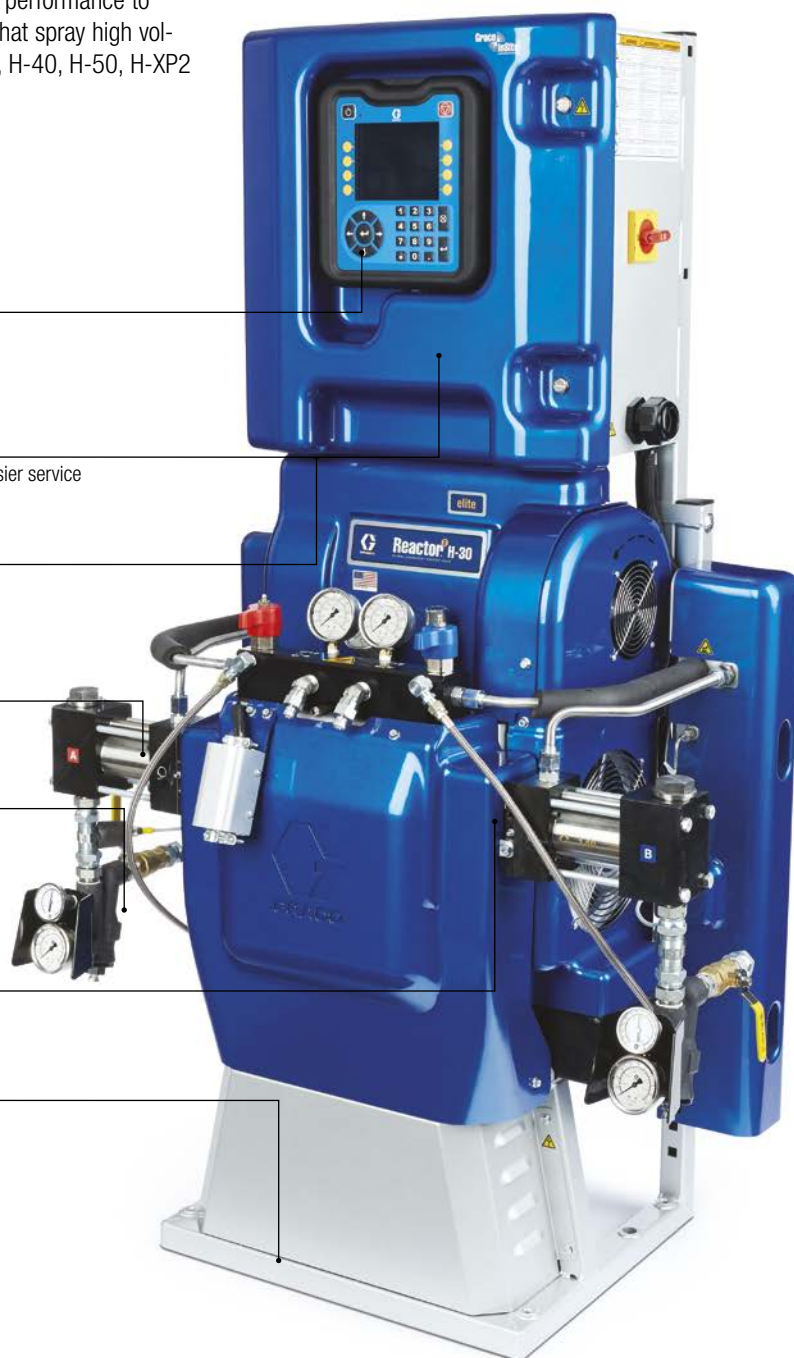
- Troubleshooting Y-strainers for analog temperature and pressure gauges
- Inlet pressure and temperature is displayed and recorded on ADM and Reactor App

#### Reversing Sensors

- Non-contact for longer life

#### Consistent Design

- Similar footprint to traditional H-series



### Elite Models

- Flowmeters come factory installed
- Inlet pressure and temperature sensors included
- Xtreme-Wrap™ Scuff Guard on heated hoses when ordered as a package

### Oval Gear Flow Meters

- Simple and robust design
- Ideally suited for high flow rate measurements
- Accuracy of  $\pm 1\%$
- Included on elite models
- Kits available to add to all Reactor 2 models

### Resistance Control Mode

- Provides full hose temperature control without RTD cables or Fluid Temperature Sensor
- Increased material yield and productivity
- Less downtime and repair costs



Elite

# Equipment For Spray Foam Applications

Graco Has You Covered



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

\*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, Probler® P2 or Fusion® PC

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

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





Hydraulic (H Series)		
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)
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)	125 m (410 ft)	125 m (410 ft)
88°C (190°F)	88°C (190°F)	88°C (190°F)
10.5 kg (24 lb)/min	17 kg (37 lb)/min	20 kg (44 lb)/min
10 kW: 247 kg 15 kW: 252 kg	272 kg	272 kg
Yes	Yes	Yes
<b>With 10.2 kW heater:</b> 17H131 - Elite 17H031 - standard  <b>With 15.3 kW heater:</b> 17H132 - Elite 17H032 - standard  <b>*Amps</b> <b>10kW:</b> 230V, 1-ph — 79A 230V, 3-ph — 46A 400V, 3-ph — 35A  <b>15kW:</b> 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 35A	<b>With 15.3 kW heater:</b> 230V, 3-ph — 71A 17H143 - Elite 17H043 - standard  <b>400V, 3-ph — 41A</b> 17H145 - Elite 17H045 - standard  <b>With 20.4 kW heater:</b> 230V, 3-ph — 95A 17H144 - Elite 17H044 - standard  <b>400V, 3-ph — 52A</b> 17H146 - Elite 17H046 - standard	<b>With 20.4 kW heater:</b> 230V, 3-ph — 95A 17H153 - Elite 17H053 - standard  <b>400V, 3-ph — 52A</b> 17H156 - Elite 17H056 - standard
‡	‡	‡
334945	334945	334945
334946	334946	334946

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

‡ Basic packages available

### ‡ Basic packages

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

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

**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



MODEL	Air (A Series)	Electric (E Series)		
	A-XP1	E-10hp	E-XP1	Reactor 2 E-XP2
<b>Max Working Pressure</b>	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)
<b>Min Working Pressure</b>	N/A	N/A	N/A	N/A
<b>Max Hose Length</b>	64 m (210 ft)	32 m (105 ft)	64 m (210 ft)	94 m (310 ft)
<b>Max Fluid Temp</b>	88°C (190°F)	77°C (170°F)	88°C (190°F)	88°C (190°F)
<b>Output</b>	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
<b>Weight</b>	140.6 kg	108 kg	155 kg	159 kg
<b>Reactor Connect Compatible</b>	No	No	No	Yes
<b>Ordering Information</b>	<b>With 10.2 kW heater:</b> 24Y165  230V, 1-ph — 56A 230V, 3-ph — 46A 400V, 3-ph — 26A	120V 24T100  230V 24T901	<b>With 10.2 kW heater:</b>  230V, 1-ph — 69A 259024  230V, 3-ph — 43A 259033  400V, 3-ph — 24A 259029	<b>With 15.3 kW heater:</b> 272112 - Elite 272012 - standard  *Amps 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 35A
<b>Packages</b>	‡	‡	‡	‡
<b>Operation manual</b>	3A1569	332144	312065	333023
<b>Repair manual</b>	3A1570	332144	312066	333024

\*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, Probler® P2 or Fusion® PC

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

**For example:** System 272112 in a basic package with a Fusion AP gun, becomes part number AP2112

Coating units are not equipped 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
<b>With 15.3 kW heater:</b> 17H162 - Elite 17H062 - standard  *Amps 230V, 1-ph — 100A 230V, 3-ph — 59A 400V, 3-ph — 35A	<b>With 20.4 kW heater:</b> 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

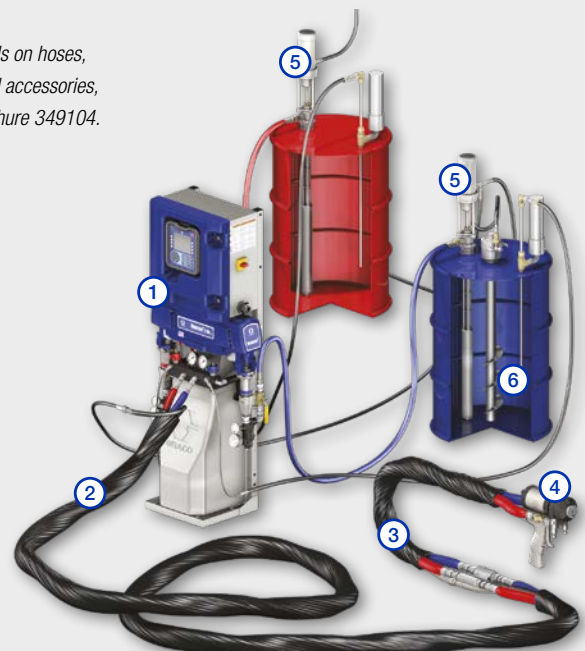
## 5 SUPPLY PUMP

Choose from diaphragm or piston pumps for standard materials in drum-mount or wall-mount. Select a 2:1 or 3:1 piston pump for materials with higher viscosities.

## 6 AGITATOR KITS

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

For details on hoses, guns and accessories, see brochure 349104.





## 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

### MAILING ADDRESS

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### JAPAN

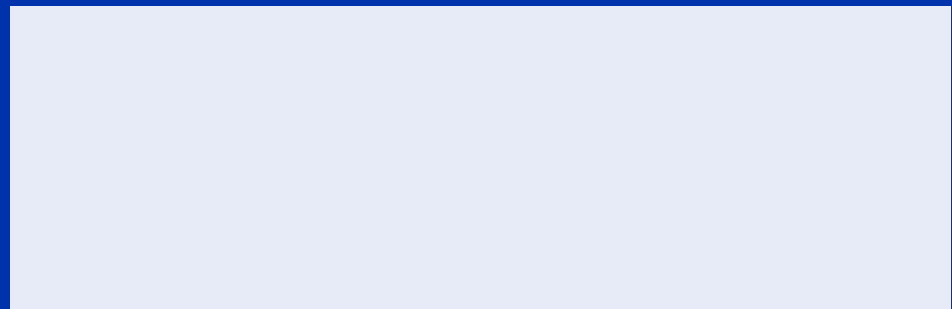
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