



# Reactor® IP

In-Plant Polyurethane Foam Processing Systems



Entry-level unit designed for rigid and flexible in-plant foam applications

## Depend on the Reactor IP for outstanding performance, accuracy and repeatability

Take total control of your in-plant foam applications with the new Reactor IP proportioner from Graco. The Reactor IP is engineered for accuracy in pouring – with advanced controls and technologies for unparalleled performance.

- Lets you program up to 25 different shot settings and five shot sequences
- Accurately measures volume of the material poured, providing repeatable shot sizes, part after part
- Available in two models, the Reactor IP offers flow rates of 25 or 50 lb/min (11.3 and 22.6 kg/min)
- Easy clean-up – no gun purging, no solvent flush
- Easy start-up and shutdown

### Remote Mountable Controls

- For total control over temperature and pressure
- Allows you to control material temperature in three heating zones (ISO, resin, hose) for improved yield

### User-Defined Controls

- Pressure imbalance control prevents off-ratio conditions – offers imbalance detection between 100 to 999 psi (7 to 69 bar) in 100 psi (7 bar) increments
- Programmable standby mode shuts the motor and hydraulic pump down after a period of inactivity – reducing system wear and protecting the unit from overheating

### Hybrid Heater Design

Heats material quickly and maintains temperature set points – even when pouring at maximum flow rates

### Electrical Control Box

Provides an easy connection between the local control module, pour gun and Reactor IP

### New Local Control Module

Allows up to 25 different pre-programmed volume settings and five shot sequences

### Digital User Interface

Separate temperature and motor controls allow you to quickly set, maintain and monitor machine performance

- Temperature settings
- Cycle counter
- Pressure readout
- ISO rod park feature lengthens pump seal life by preventing ISO reaction

### Circulation Valves

Designed to reduce isocyanate crystallization

### Horizontal Pumpline

Robust pump design provides extended seal life. Different ratios can be achieved by combining different rod pump sizes. Ratio range is from 4.6:1 to 1:4.6. 81 pump combinations are available.

### New Linear Transducer

Provides accurate volume repeatability from part to part

### Optional Data Recorder

Records and compares material temperatures and pressures for critical applications



## Local control module for precise dispensing

### Local Control Module

- Accurately controls the amount of material you want to dispense
- Lets you program up to 25 different shot sizes and five sequences
- Precision dispensing means no wasted material
- Results in consistent parts production



### Arrow Keys

For easy screen navigation and numerical entry

### Soft Keys

For setup and programming

### Dispense Button

For remote dispensing capabilities

### Mode Button

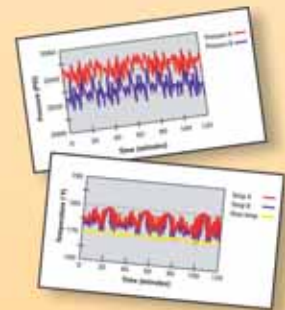
Choose between three modes: shot size, sequence or manual mode

### Optional Data Recorder

- Records actual temperatures and pressures
- Tracks material usage for accurate job tracking and record keeping
- Records diagnostic codes to simplify troubleshooting
- User can output data in spreadsheet format to quickly graph application temperatures and pressures
- Provides data to validate job accuracy



Reactor Data Reporting Kit



## Typical Applications

- Insulation for coolers and containers
- Pre-formed foam block for housing
- Picture frames
- Cabinets
- Solar panels
- Insulation for doors and windows
- Refrigerator panels
- Shutters
- Wall and floor panels
- Heater tanks
- Surf boards
- Pipe insulation

How to select system components for your Reactor IP

Use this selection tool in conjunction with the part numbers listed on pages 5-7.

## 1 Select a Reactor IP

Choose from the Reactor IPH-40, or the Reactor IPH-25 (both hydraulic motors).

### KEY FEATURES:

- Quick knock down fluid sections
- Optional data reporting capabilities
- Foam models rated at 2000 psi (138 bar, 13.8 MPa)
- Optional pump sizes available for different ratios

## 2 Select heated hose

Pressure rating of 2000 psi (138 bar, 13.8 MPa). Choose 1/4 in (6.4 mm), 1/2 in (12.7 mm) or 3/8 in (9.5 mm) IDS.

## 3 Select heated whip hose

Pressure rating of 2000 psi (138 bar, 13.8 MPa). Choose 1/4 in (6.4 mm), 1/2 in (12.7 mm) or 3/8 in (9.5 mm) IDS.

## 4 Select a pour gun

### AR-C Gun:

- Good for mid- to high-flow rate applications
- 0.25 in (6.4 mm) diameter rod
- Optional AR-D conversion kit available – 0.375 in (9.5 mm) diameter rod

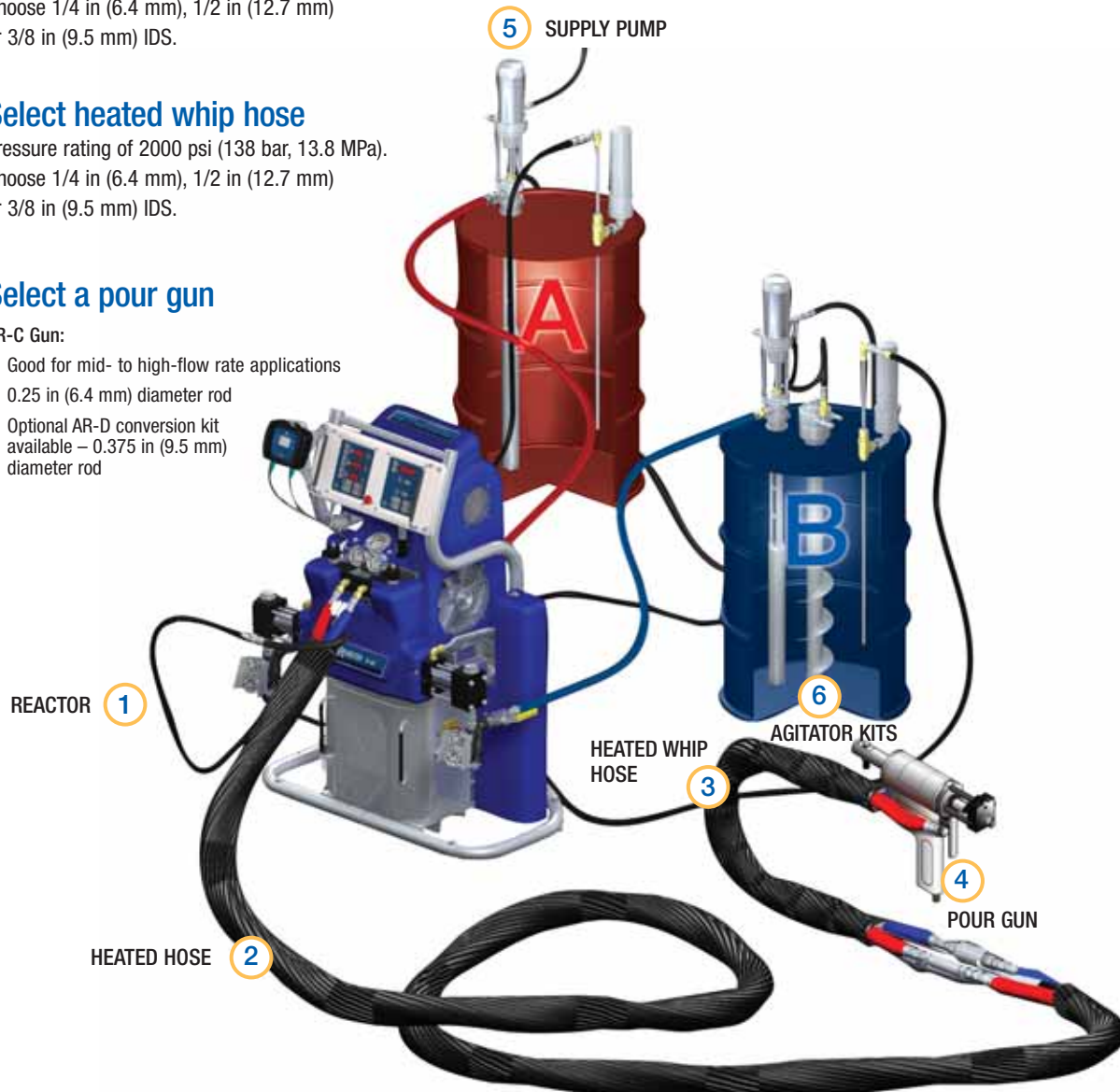
## Select supply processing equipment

### 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.



## Ordering Information



REACTOR IP FOR IN-PLANT FOAM APPLICATIONS		
	Hydraulic (H-Series)	
Model	REACTOR IPH-25	REACTOR IPH-40
Max Working Pressure	2000 psi (140 bar, 14 MPa)	2000 psi (140 bar, 14 MPa)
Max Hose Length	310 ft (94 m)	410 ft (125 m)
Output	25 lb/min (11.3 kg/min)	50 lb/min (22.6 kg/min)
Heater Wattage	8000 watts	12,000 or 15,300 watts
Max Ambient Temperature	120°F (49°C)	120°F (49°C)
Max Fluid Temperature	190°F (88°C)	190°F (88°C)
Weight	8 kW: 535 lb (243 kg)	600 lb (272 kg)
Dimensions (H x W x D)	55 x 40 x 22 in (140 x 101 x 56 cm)	55 x 40 x 22 in (140 x 101 x 56 cm)
<b>1</b> Ordering Information	<p><u>With 8.0 kW heater:</u>                      69A-230V, 1-ph  <b>255824</b> (Package* w/ AR Gun)  <b>255814</b> (Bare)</p> <p>46A-230V, 3-ph  <b>255825</b> (Package* w/ AR Gun)  <b>255815</b> (Bare)</p> <p>35A-400V, 3-ph  <b>255826</b> (Package* w/ AR Gun)  <b>255816</b> (Bare)</p>	<p><u>With 12.0 kW heater:</u>                      100A-230V, 1-ph  <b>255821</b> (Package* w/ AR Gun)  <b>255811</b> (Bare)</p> <p><u>With 15.3 kW heater:</u>                      71A-230V, 3-ph  <b>255822</b> (Package* w/ AR Gun)  <b>255812</b> (Bare)</p> <p>41A-400V, 3-ph  <b>255823</b> (Package* w/ AR Gun)  <b>255813</b> (Bare)</p>
Operation manual	312062/312878	312062/312878
Repair manual	312063	312063

\* Package includes 25 ft (7.6 m) heated hose, 10 ft (3 m) heated whip hose and AR Gun.