



# PFP Sprayers

Equipment Solutions for Epoxy  
Intumescent Fireproofing Materials



PROVEN QUALITY. LEADING TECHNOLOGY.

# When Material is This Critical, Count on Graco

## Protecting steel, assets and lives is serious business

Built for passive fire protection (PFP) materials, Graco equipment handles the toughest epoxy intumescent fire protection coatings.

### Graco XM™ PFP Plural-Component Sprayer

- Handles two-part materials from 1:1 to 10:1
- Provides precise ratio control within  $\pm 5\%$
- Ensures accurate, on-ratio mixing to reduce material waste
- Virtually eliminates the difficult task of removing material that is improperly proportioned
- Fast startup times due to performance of heating system

### Applications

- Pipe racking
- Structural steel
- Storage tanks
- Onshore and offshore oil rigs
- Living quarters



## Get serious with Graco technology

### Proven ratio assurance

Simply enter the mix ratios into the control panel. If off-ratio conditions should occur, the system will stop production, preventing any off-ratio material from reaching your project.

### Data reporting - for confidence the job was done right

Project data such as spray pressures, temperatures, actual ratio, and total flow output can be downloaded onto a flash drive. With this data, you can verify that materials were sprayed at the proper ratios and requirements set by the coatings manufacturer.

### Consistent temperature control

The XM PFP Sprayer maintains temperature set points of the hose and materials - no more heater adjustments and no more material charring due to overheating. Closed-loop technology adjusts the heaters to achieve optimum spray performance in the most extreme conditions.

# Technology Delivers Peace of Mind

## Intuitive User Controls

- Displays ratio readings in real-time for ultimate spraying control
- USB drive for data reporting
- Displays current tank levels and spray temperatures

## Heat Control

- Easy to use “set and forget” temperature controls
- Maintains a consistent temperature on five heat zones (A and B material, hose and pressure pots)

## Viscon® HF Heater

- Supports high production rates
- 5400 W - high efficiency core
- Cleanable design
- Set and forget fluid temperature

## Heated Hose Set

- Set and forget hose temperature
- Heated mix manifold
- Provides faster spray pattern and reduced waste

## Level Sensors

- Automatically refills tanks when material reaches a certain level

## Check-Mate® Feed System

- Proven Graco supply system – 5-gal (20 l) pail

## Heated Pressure Pots

- Circulates water for better heat transfer
- 20-gal (76 l)

## Hot Water Flush Kit (optional)

- Up to 180°F (82°C) max flush temperature
- Auto fill with water line connection
- 6-gal (23 l) tank capacity



# Technology that Boosts Productivity

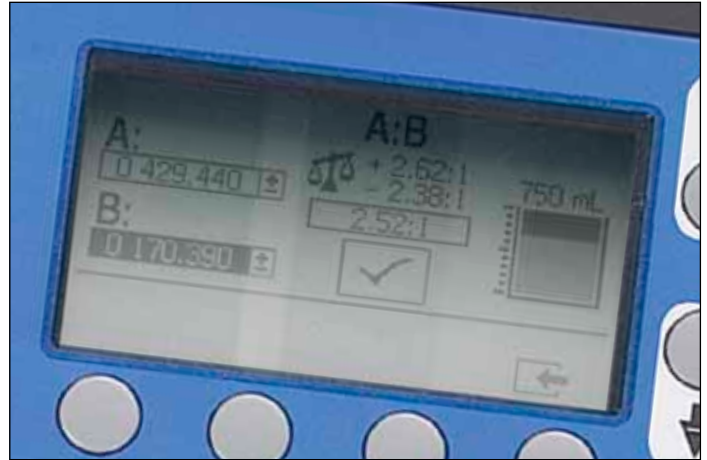
## An easier way to take control

The intuitive user interface provides two display modes: “setup” for entering parameters and a “run” mode for operation. The user interface monitors and tracks mix ratio, pressure, temperature and flow, and allows you to program maintenance schedules. It shuts down the system if off-ratio conditions exist, and with its USB port, you can download historical spraying data.

## Simplify the ratio checking process

The ratio checking process for epoxy intumescent is important and documentation is often required. With the XM PFP's controls, it's easy to make sure your material is on ratio.

1. Initiate ratio check process on the machine controls
2. Operator dispenses A and B materials into test beakers, and weighs samples
3. Operator enters A and B weights on the control screen
4. Control screen provides “Pass” or “Fail” message, and logs the results in the USB data.



The user interface also lets you keep track of your fluid supply and spray parameters.

You can:

- Monitor the temperature of supply tanks, fluid heaters and hose heat
- Set temperatures for A and B materials and hose.
- Set and monitor tank levels, turn automatic tank filling on and off

## Graco XHF™ Spray Gun

- High-flow, high pressure gun
- Easily handles high-viscosity coatings, fiber filled materials and epoxy intumescent materials
- Reduced clogging means more uptime
- Rated to 7250 psi (500 bar, 50 MPa)



# Xtreme® PFP Sprayer

## Small jobs made easy

Get in and get smaller jobs done fast. Ideal for spraying hot-potted PFP epoxies, the Xtreme PFP Sprayer is easy to clean with its quick knock-down, double-ball pump.

### *NXT® Air Motor*

- Standard de-icing feature keeps you up and running

### *Handles high-viscosity coatings*

- 6500 psi (448 bar) working pressure
- Large inlet check with extended ball travel
- Pail ram plate with high down force and air-assisted removal
- Large outlet check for improved pattern control

### *Compact cart-mounted*

- Heavy-duty cart withstands extreme conditions
- Easy handling for one person



## Worldwide Support

With infrastructure throughout the world, your company will benefit from Graco's knowledgeable, global network of professionals.



### Responsive Service

Graco has close working relationships with many of the world's leading manufacturers and material suppliers. With Graco, you can expect responsive service and support, as well as the accuracy and reliability you demand from your manufacturing equipment.



### Training

Graco offers valuable hands-on learning and equipment training at its training centers in Minneapolis, MN; North Canton, OH; Maasmechelen, Belgium; and Shanghai, China. Convenient online training courses are also available.



### Distribution

With a global distribution network, you can count on quick turnaround times for replacement parts and service. With Graco's authorized distributors, you have access to experts who understand the unique needs of your business.

# Technical Specifications

MODEL	XM PFF	XTREME PFF
Mix Ratio Range	1:1 - 10:1 (In 0.01 increments)	Hot Potted
Ratio Tolerance Range (before alarm)	+/- 5%	No Alarm
Max Flow Rate	3 gpm (11.4 lpm)	2.93 gpm (11.1 lpm)
Fluid to Air Pressure Ratio	60:1	70:1
Fluid Viscosity Range	Handles mastic materials which are loaded into heated tanks with ram-fed priming piston pumps	Handles mastic materials of two parts (A and B) which are mixed then ram-fed
Air Inlet	1 in npt(f)	3/4 in npt(f)
Fluid Inlets	Ram plate fed pail pumps	Ram plate fed pail pump
Max Fluid Working Pressure of mixed material	6000 psi (414 bar, 41.4 MPa)	6500 psi (448 bar, 44.8 MPa)
Max Fluid Temp	160°F (70°C)	Hot potted (depends on material)
Incoming Air Supply Pressure Range	80-150 psi (5.5-10.3 bar, 0.5-1.0 MPa)	80-150 psi (5.5-10.3 bar, 0.5-1.0 MPa)
Max Pump Air Set Pressure	100 psi (7 bar, 0.7 MPa)	90 psi (6.2 bar, 0.6 MPa)
Max Tank Pressure	100 psi (7 bar, 0.7 MPa)	NA
Max Air Consumption	175 scfm (5 meter <sup>3</sup> /min)	115 scfm (3.25 meter <sup>3</sup> /min)
Air Filtration	40 micron main filter, 5 micron control filter	40 micron filter
Ambient Operating Temp Range	32° - 130°F (0° - 54°C)	50° - 130°F (10° - 54°C)
Ambient Storage Temp Range	30° - 160°F (-1° - 71°C)	34° - 86°F (1° - 30°C)
Environmental Conditions Rating	Altitude up to 13,123 ft (4000 m)	Altitude up to 13,123 ft (4000 m)
Sound Pressure	86 dBA at 100 psi	87 dBA at 100 psi, 15 cycles/min
Sound Power	98 dBA at 100 psi	98 dBA at 100 psi, 15 cycles/min
Weight	2175 lb (987 kg)	392 lb (178 kg), includes cart
<b>POWER REQUIREMENTS</b>		
Voltage (Jumper selectable)	<b>Option 1:</b> 220-240V, 3-ph (3 wire plus ground)	NA
	<b>Option 2:</b> 380-400 DELTA, WYE, 3-ph (4 wire including neutral plus ground)	NA
Wattage	18,400 Watts (23,400 Watts with optional flush water heater)	NA
Amps	65 amps DELTA (38 amps WYE)	NA
<b>WETTED PARTS</b>		
Suction Tube (flush)	Aluminum	NA
Tanks	Stainless Steel	NA
Flush Pump	Carbide, PTFE, stainless steel, UHMWPE	NA
Hoses	Nylon	Nylon
Pumps (A, B and feed pail)	Carbon steel, alloy steel, 303, 440, 17-ph grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE	Carbon steel, alloy steel, 304, 440, 17-ph grades stainless steel, zinc and nickel plating, ductile iron, tungsten carbide, PTFE, leather
Metering Valves	Carbon steel, nickel plating, carbide, polyethylene, leather	NA
Manifold	Carbon steel, nickel plating, carbide, 302 stainless steel, PTFE, UHMWPE	NA
Mixer	Stainless steel housing with stainless elements	NA
<b>APPROVALS</b>		
Machine	CE, ETL to UL 499 and CSA 22.2	CE
Pressure Tanks	ASME, PED	
Manuals	3A2776	3A2798

# Ordering Information

## Plural-Component Sprayers

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- 262878 Base XM PFP. No feed modules or heated hose bundle. Base XM PFP includes: XM60, Viscon® HF primary heaters, Viscon HP with hose heat supply system, 30:1 Merkur® flush pump, PFP mix manifold, mixer, whip hoses and gun.
- 262869 Complete XM PFP System. Includes base XM PFP with 50 ft (15 m) dual heated hose, mix manifold, 17 ft (5 m) static mix line, 30:1 flush pump, XHF Gun with 429 tip. Includes two Check-Mate® 20-gal (76 l) heated feed modules with agitators and level sensors.

## Single-Component Sprayers

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Includes 75 ft (23 m) spray line and XHF Gun with 429 tip.

- 16P957 Xtreme PFP, floor mount  
16T311 Xtreme PFP, cart mount

## Supply Processing Equipment

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- 24P883 Heated Supply Module. Includes 40:1 Check-Mate, heated pressure tank, agitator, level sensor, and bottom outlet feed hose and connection.
- 24P884 Level sensor kit. Replacement for XM PFP heated tanks.
- 24P831 Level sensor probe replacement
- 16T525 Viscon LT heater for tank heat circulation, 1750 W
- 24P885 XM PFP feed module agitator
- 24P835 Husky™ 205 hot water circulation pump for tanks or heated hose
- 262896 Tank dryer kit. Provides additional filtration and moisture control for heated tanks.
- 24P899 XM PFP main line air filter kit (1-1/4 in npt)
- 262853 Viscon HF heater kit, remote controlled. *Not approved for use in explosive atmospheres.*

## Hoses and Guns

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- 16T122 Heated hose bundle. Includes 50 ft, ¾ in x ¾ in (15 m, 18 mm x 18 mm), 6500 psi (448 bar/44.8 MPa) fluid hoses; ¼ in (6 mm) 4500 psi (310 bar/31.0 MPa) flush hose; and four ½ in (13 mm) heat tubes. Includes scuff guard.
- 16T121 Heated hose bundle. Includes 50 ft, ¾ in x ½ in (15 m, 18 mm x 13 mm), 6500 psi (448 bar/44.8 MPa) fluid hoses; ¼ in (6 mm) 4500 psi (310 bar/31.0 MPa) flush hose; and four ½ in (13 mm) heat tubes. Includes scuff guard.
- 16T316 Static mixer assembly, 12 element, SST
- 24P886 Mix element replacement, SST
- 262890 XM PFP mix manifold with ball valves and check valves, 6000 psi (414 bar/41.4 MPa)
- 237260 XHF Gun repair kit
- 24P832 Xtreme PFP Gun and mix line kit, 75 ft (23 m) - (single component pump to gun)
- 24P833 XM PFP Gun and mix line kit, 17 ft (5 m); includes static mixer - (mix manifold outlet to gun)
- 16T484 Hose, ¾ in (19 mm) ID x 50 ft (15 m), ¾ in (19 mm) npsm (fbc), 6500 psi (448 bar/44.8 MPa) nylon core
- H75050 Hose, ½ in (13 mm) ID x 50 ft (15 m), ½ in (13 mm) npsm (fbc), 7250 psi (500 bar/50 MPa) nylon core
- H75025 Hose, ½ in (13 mm) ID x 25 ft (7.6 m), ½ in (13 mm) npsm (fbc), 7250 psi (500 bar/50 MPa) nylon core
- 262854 XHF Gun, includes XHD 429 tip
- 24P834 XHF Gun swivel, 1/2 in f x 3/8 npsm, PTFE packing, 6500 psi (448 bar/44.8 MPa)

## Accessories

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- 16T481 Check valve, ¾ in (19 mm) npt (fbc), 7250 psi (500 bar/50 MPa)
- 16T859 Hot water flush kit, 180°F (82°C) with auto fill and temperature control
- 255478 Dosing valve, A or B replacement valve
- 262872 XM PFP sampling valve. Used for weight ratio checks.
- 24P268 Ball valve, 3/4 in (19 mm) npt, 6000 psi (414 bar/41.4 MPa)
- L220C9 XM PFP lower replacement, 220 cc, X-Tuff™ (repair kit 262793)
- L180C9 XM PFP lower replacement, 180 cc, X-Tuff (repair kit 262792)
- L180C7 Xtreme PFP lower replacement, 180 cc, Xtreme Seal (repair kit 24F969) (has inlet ball spacers in a different location)