



# XM PFP for Explosive Atmospheres

Epoxy Intumescent Fireproofing Sprayer



PROVEN QUALITY. LEADING TECHNOLOGY.

# Technology that Delivers Peace of Mind

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## A fully approved system for explosive atmospheres

When you're applying fireproofing materials in potentially explosive environments, it is critical that your application equipment is designed properly. In fact, it is probably required that your equipment is inspected and approved for use in explosive atmospheres.

Designed for the application of epoxy intumescent fire protection coatings, the Graco XM® PFP Sprayer **is the first and only complete system that is ATEX and IECEx certified for use in explosive atmospheres; it is rated for both electrical and mechanical construction.** So whether it's offshore refineries, liquid natural gas facilities, petrochemical plants or industrial manufacturing facilities, you can trust Graco equipment for passive fire protection.





# A Fully Approved System

## IECEX and ATEX approved

The XM PFP meets requirements for equipment intended for use in explosive atmospheres by IECEx and ATEX (European), both globally recognized organizations.

## Intertek approved

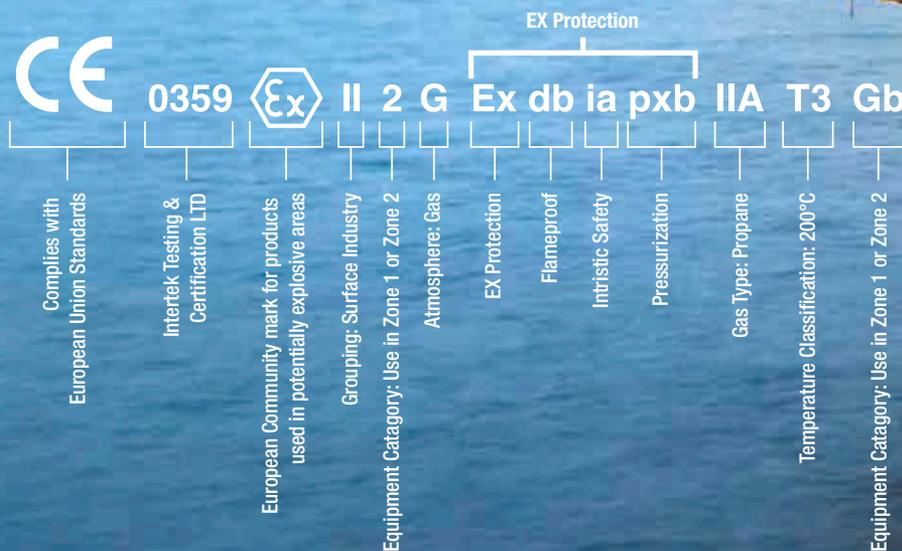
Intertek Group, a multinational inspection, product testing and certification company headquartered in London, has given the XM PFP a top-level system approval for explosive atmospheres. This third party approval provides you with additional peace of mind.

## No red tape, less hassles with site inspections

With an approved explosive atmosphere rating for both electrical and mechanical construction from IECEx and ATEX, you have the confidence that the entire system is approved. With competitive units, individual components may be approved for explosive atmospheres, but not the system as a whole. The approval code on the XM PFP tells inspectors that your system is fully approved and rated for explosive atmospheres. Full system approval eliminates the risk and expense of third-party on-site approvals required for electrical design.

## Understanding the label

The Graco XM PFP is ATEX and IECEx certified for use in explosive atmospheres (ITS15ATEX18241X; IECEx ETL 15.0020X). The following markings appear on its nameplate.



Log on to [iecex.iec.ch/iecex/iecexweb.nsf](http://iecex.iec.ch/iecex/iecexweb.nsf) and type in certificate number, IECEx ETL 15.0020X, to view certificate.



# Explosive Atmosphere XM PFP

## 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

## Check-Mate® Feed System

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

## Intrinsically Safe Level Sensors

- Automatically refills tanks when material reaches a certain level

## Explosion-proof Electrical Connection

- Approved, on-board incoming power connection



XM PFP – back view

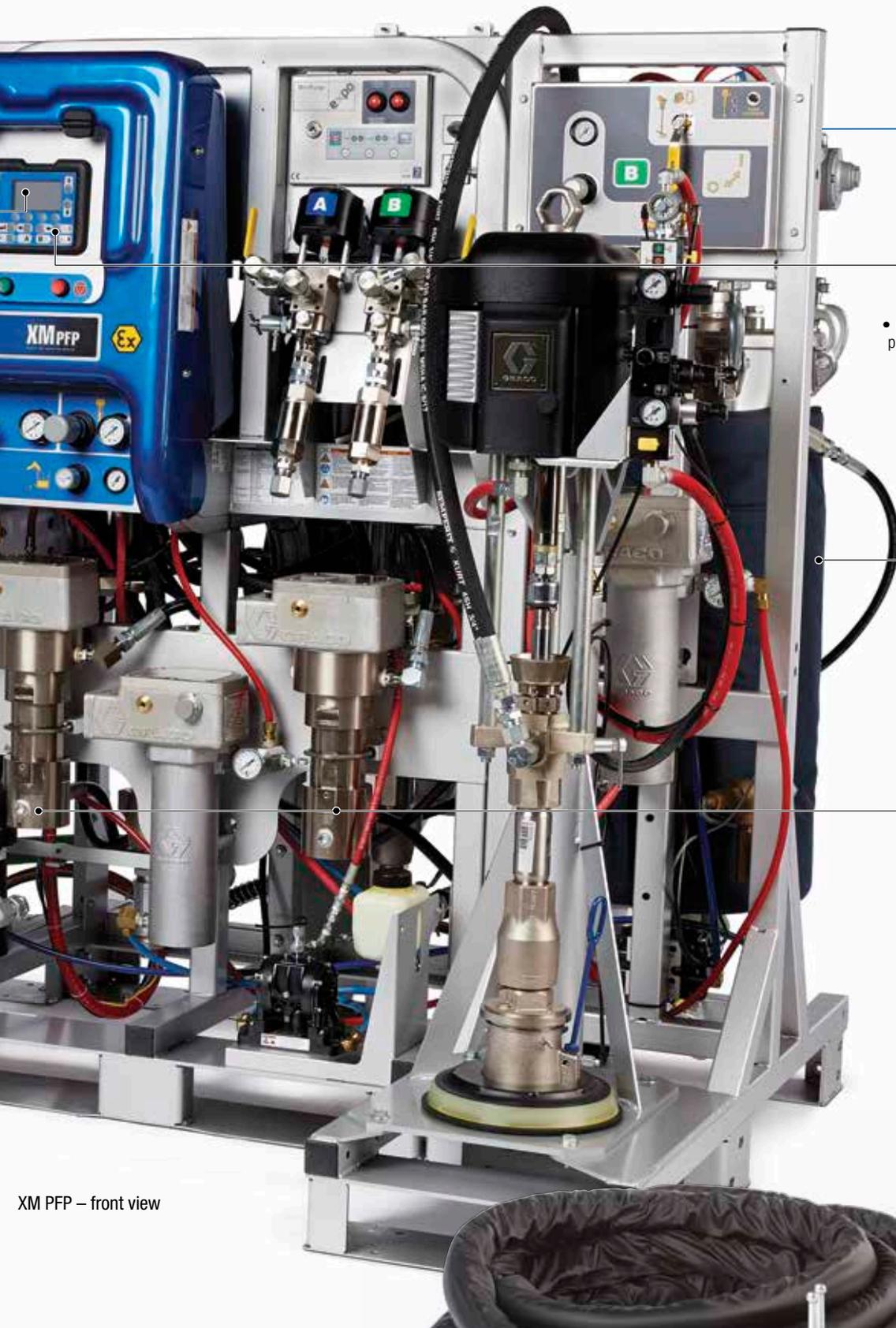


## Purge-controlled Electrical Enclosure

- System automatically shuts down with loss of purge pressure

## Hot Water Flush Kit (included)

- Up to 180°F (82°C) max flush temperature
- Auto fill with water line connection
- 10-gal (37.8 l) tank capacity



### Heat Control

- Easy to use "set and forget" temperature controls
- Maintains consistent temperatures for primary A & B heaters and heated hose
- Helps prevent overheating of temperature sensitive materials

### Heated Pressure Pots

- Uses circulating water for maximum heat transfer
- Conditions and feeds material into proportioner
  - 20-gal (76 L)

### Viscon® HF Heaters

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

XM PFP – front view

### Heated Hose Set

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



# Technology that Boosts Productivity

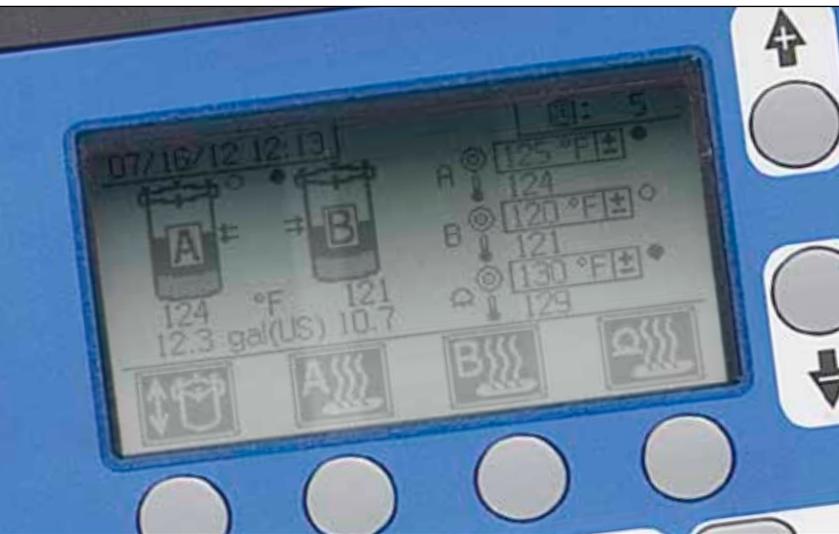
## Weight-based operation mode for fast, easy ratio assurance

The XM PFP takes the guesswork out of ratio assurance. That's because you set the ratio by weight and check it by weight as well. A simple calibration process programs the machine for the specific materials being used. **The machine sprays and displays the true weight ratio of the material as the chemical manufacturer intended.** The XM PFP's precise metering method is impervious to changes in material compressibility – **no more tank pressure or temperature tweaking for accurate weight checks.**



## Save time with fast ratio checks – less than 90 seconds

Once the machine is calibrated, you can run repeatable test samples regardless of changes in tank pressures or temperatures and pass ratio checks every time. This process is fast and can be completed in 90 seconds or less, giving you more uptime and improving productivity. To see the ratio check in action go to [www.graco.com/xmpfp](http://www.graco.com/xmpfp).



## 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.



## Easy user controls

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, temperatures and flow, and allows you to program maintenance schedules. The controls shut down the system if off-ratio conditions exist.

The user interface also lets you track fluid supply and spray parameters:

- 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



## 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 ratio and at the requirements set by the coatings manufacturer.



# Technical Specifications

| MODEL  |  | XM PFP   |
|--|--|--|
| Mix Ratio Range                              |  | 1:1 - 4:1 (In 0.01 increments)   |
| Ratio Tolerance Range (before alarm)         |  | +/- 5%   |
| Max Flow Rate                                |  | 3 gpm (11.4 lpm)   |
| Fluid to Air Pressure Ratio                  |  | 60:1   |
| Fluid Viscosity Range                        |  | Handles mastic materials which are loaded into heated tanks with ram-fed priming piston pumps  |
| Air Inlet                                    |  | 1 in npt(f)  |
| Fluid Inlets                                 |  | Ram plate fed pail pumps   |
| Max Fluid Working Pressure of mixed material |  | 6000 psi (414 bar, 41.4 MPa)   |
| Max Fluid Temp                               |  | 160°F (70°C)   |
| Incoming Air Supply Pressure Range           |  | 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)   |
| Max Tank Pressure                            |  | 100 psi (7 bar, 0.7 MPa)   |
| Max Air Consumption                          |  | 175 scfm (5 meter <sup>3</sup> /min)   |
| Air Filtration                               |  | 40 micron main filter, 5 micron control filter, 3 micron purge controlled filter   |
| Ambient Operating Temp Range                 |  | 32° - 130°F (0° - 54°C)  |
| Ambient Storage Temp Range                   |  | 30° - 160°F (-1° - 71°C)   |
| Environmental Conditions Rating              |  | Altitude up to 13,123 ft (4000 m)  |
| Sound Pressure                               |  | 86 dBA at 100 psi  |
| Sound Power                                  |  | 98 dBA at 100 psi  |
| Weight                                       |  | 2175 lb (987 kg)   |
| POWER REQUIREMENTS                           |  |  |
| Voltage (Jumper selectable)                  |  | <b>Option 1:</b> 200-240V, 3-ph DELTA (3 wire plus ground)<br><b>Option 2:</b> 350-415V, 3-ph WYE (4 wire including neutral plus ground) |
| Wattage                                      |  | 18,900 Watts   |
| Amps   |  | 200 – 240V, 3-ph DELTA: 63 amps per phase full load<br>350 – 415V, 3-ph WYE: 40 amps per phase full load                                 |
| WETTED PARTS                                 |  |  |
| Suction Tube (flush)                         |  | Aluminum   |
| Tanks  |  | Stainless Steel  |
| Flush Pump                                   |  | Carbide, PTFE, stainless steel, UHMWPE   |
| Hoses  |  | 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         |
| Metering Valves                              |  | Carbon steel, nickel plating, carbide, polyethylene, leather   |
| Manifold                                     |  | Carbon steel, nickel plating, carbide, 302 stainless steel, PTFE, UHMWPE   |
| Mixer  |  | Stainless steel housing with stainless elements  |
| APPROVALS                                    |  |  |
| Machine                                      |  | CE, ATEX, IECEx  |
| Certificate Numbers                          |  | <b>ATEX:</b> ITS15ATEX18241X; <b>IECEx:</b> IECEx ETL 15.0020X   |
| Pressure Tanks                               |  | ASME, CE (steel is stamped on tanks)   |
| Manuals                                      |  | 3A2776   |

# Ordering Information

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## Complete XM PFP System for Explosive Atmospheres

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- 262943 Includes base XM PFP with 50 ft (15 m) dual (3/4 in x 1/2 in) 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.
- 262945 Includes base XM PFP with 50 ft (15 m) dual (3/4 in x 3/4 in) 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.

## Supply Processing Equipment

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- 24X090 Level sensor kit. Replacement for XM PFP heated tanks.
- 24T761 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)

## Hoses and Guns

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- 16T122 Heated hose bundle. Includes 50 ft, 3/4 in x 3/4 in (15 m, 18 mm x 18 mm), 6500 psi (448 bar/44.8 MPa) fluid hoses; 1/4 in (6 mm) 4500 psi (310 bar/31.0 MPa) flush hose; and four 1/2 in (13 mm) heat tubes. Includes scuff guard.
- 16T121 Heated hose bundle. Includes 50 ft, 3/4 in x 1/2 in (15 m, 18 mm x 13 mm), 6500 psi (448 bar/44.8 MPa) fluid hoses; 1/4 in (6 mm) 4500 psi (310 bar/31.0 MPa) flush hose; and four 1/2 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
- 24P833 XM PFP Gun and mix line kit, 19 ft (5.8 m); includes static mixer - (mix manifold outlet to gun)
- H67550 Hose, 3/4 in (19 mm) ID x 50 ft (15 m), 3/4 in (19 mm) npsm (fbc), 6500 psi (448 bar/44.8 MPa) nylon core
- H75050 Hose, 1/2 in (13 mm) ID x 50 ft (15 m), 1/2 in (13 mm) npsm (fbc), 7250 psi (500 bar/50 MPa) nylon core
- H75025 Hose, 1/2 in (13 mm) ID x 25 ft (7.6 m), 1/2 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, 3/4 in (19 mm) npt (fbc), 7250 psi (500 bar/50 MPa)
- 24X113 Hot water flush kit, 180°F (82°C) with auto fill and temperature control (included with 262943 and 262945)
- 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)

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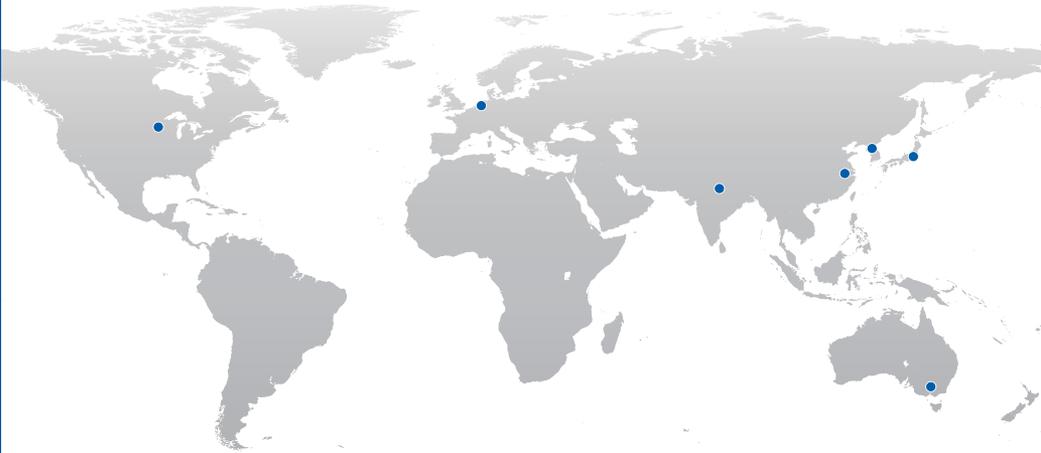
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