



XM Plural-Component Sprayers

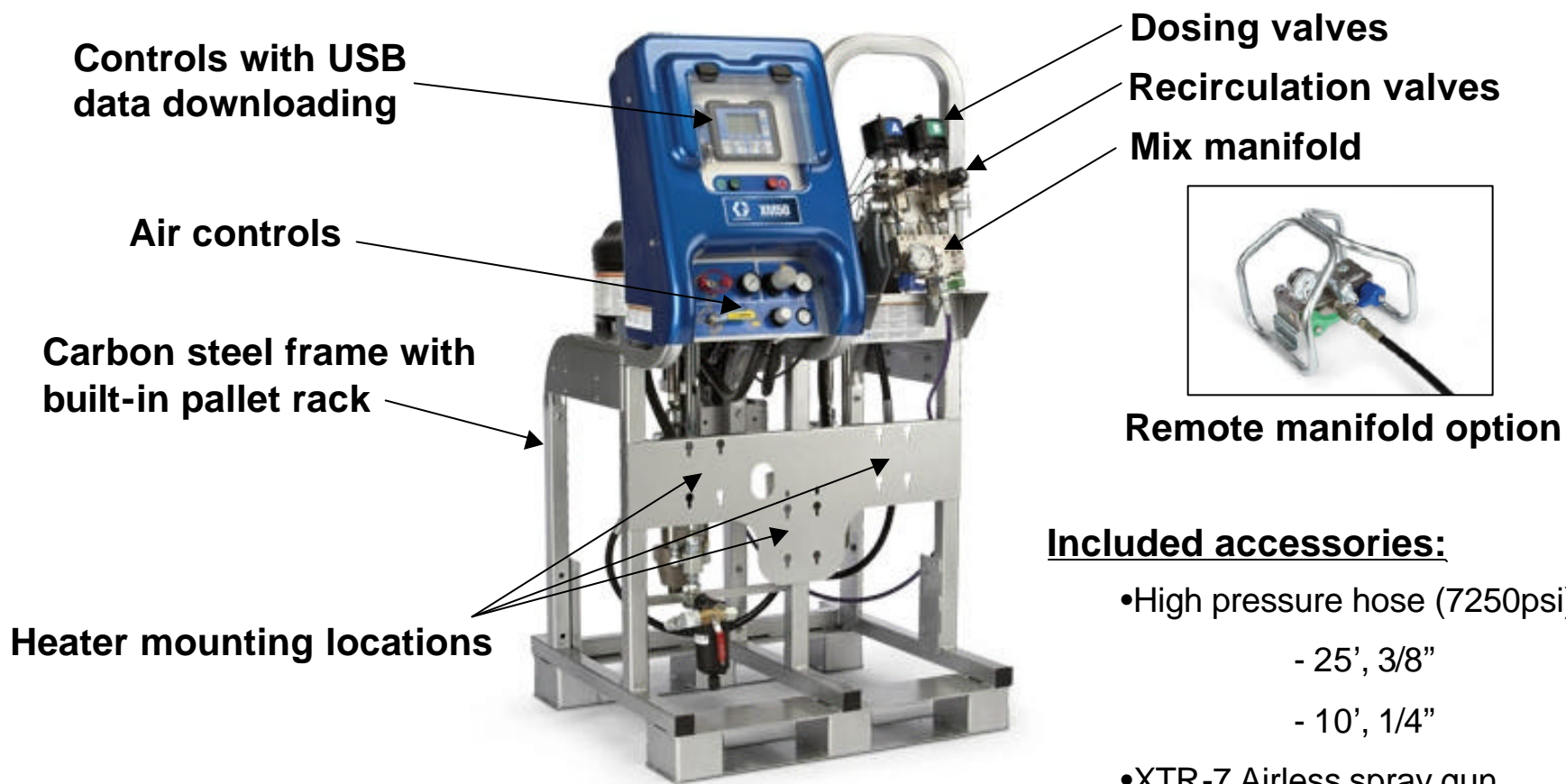




XM Features

- Doubled useful flow rate (compared to Xtreme Mix)
 - Supports multiple guns to improve productivity and profitability
- Improved mixing
 - Faster setting materials
 - Shorter integration hose (less material waste)
- Defined error codes
 - Easy troubleshooting
 - Automatic shutdown if off ratio
- Heated hopper options
 - Hazardous or non-hazardous safe
- Fully configured, factory packaged systems
 - OEM versions available
- Xtreme air motors with NXT technology
- USB data downloading
 - Fast, easy access to historical spray data
 - Spray log shows the job was done right!
- Graco Control Architecture (GCA)

XM Base Unit



Included accessories:

- High pressure hose (7250psi)
 - 25', 3/8"
 - 10', 1/4"
- XTR-7 Airless spray gun
- 2 static mixers
- USB flash drive (4GB)

XM Base Unit



Air motors

- 6500cc NXT
- De-ice

Merkur flush pump

Xtreme lowers

- XM available in two pressure ratios
 - 50:1 A pump = 250 B pump = 220
 - 70:1 A pump = 180 B pump = 145
- With or without fluid filters

XM rated fluid pressure

- XM50 = 5200 psi
- XM70 = 6300 psi



Base Unit Choices

Control box power/fluid heaters:

- A) Wall power
- no fluid heaters
- B) Wall power
- 2 standard fluid heaters
- junction box
- C) Air driven alternator
- no fluid heaters
- D) Air driven alternator
- 2 explosion proof fluid heaters



Base Unit Details

Control box power supply

- Wall power (Std. 120VAC)
- Air driven alternator, approved for use in explosive atmospheres.

Electrical junction box

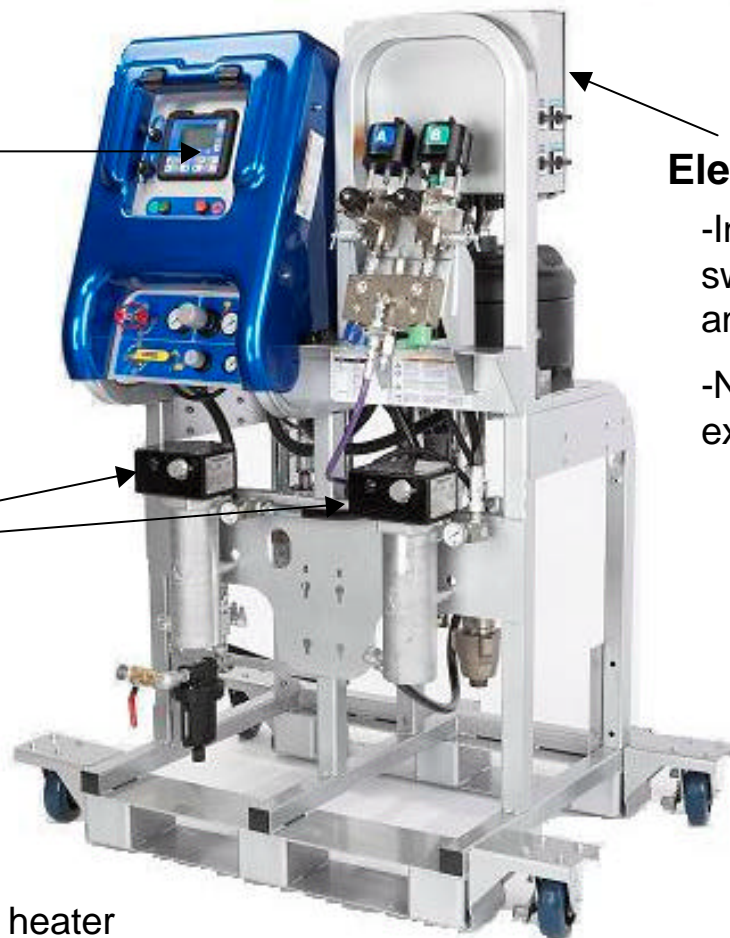
- Includes breakers and switches for standard fluid and hopper heaters.
- Not approved for use in explosive atmospheres.

Fluid heaters

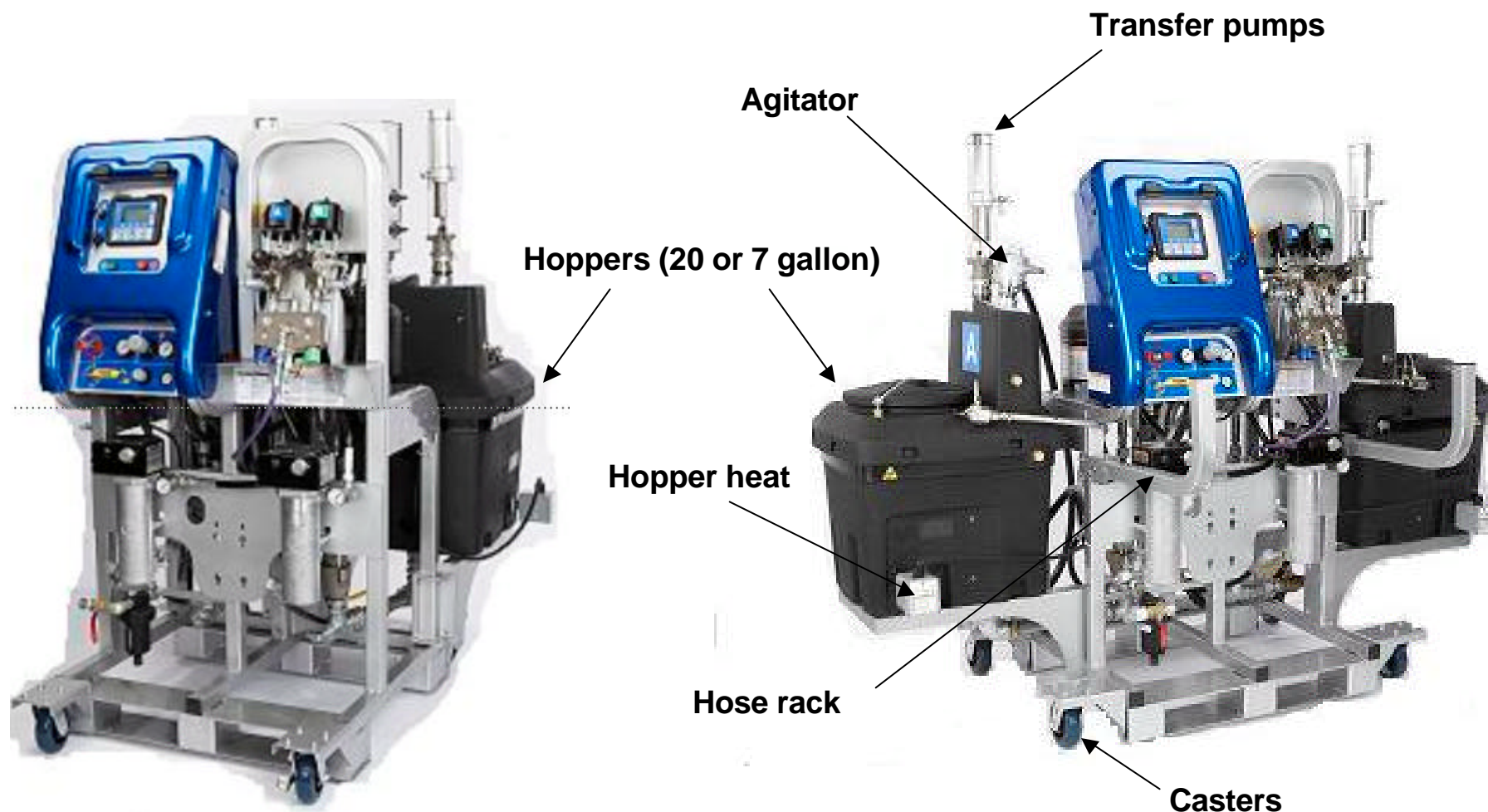
- Standard or explosion proof



Explosion proof heater



XM Configurable Options



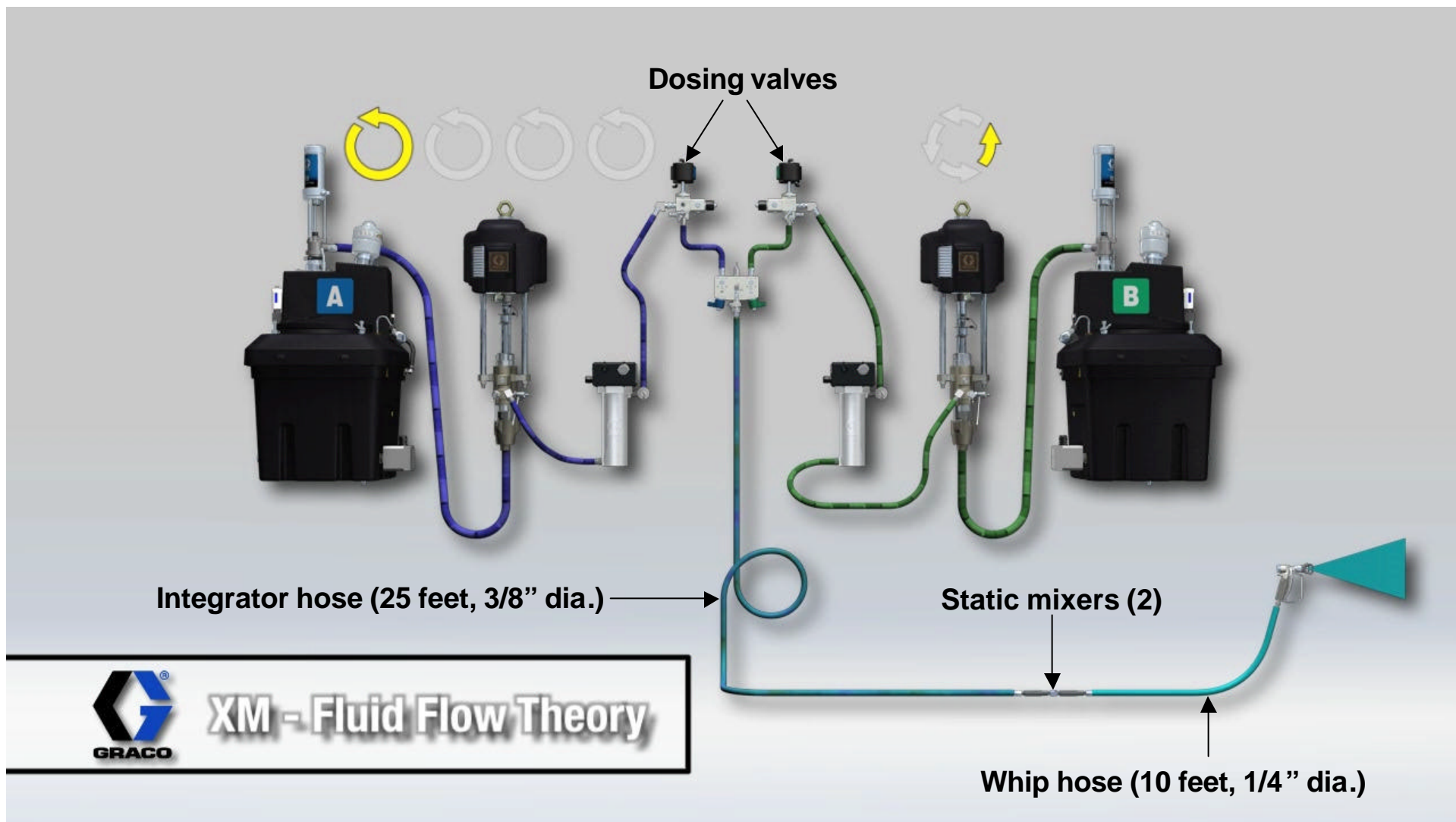


Configured Unit Options

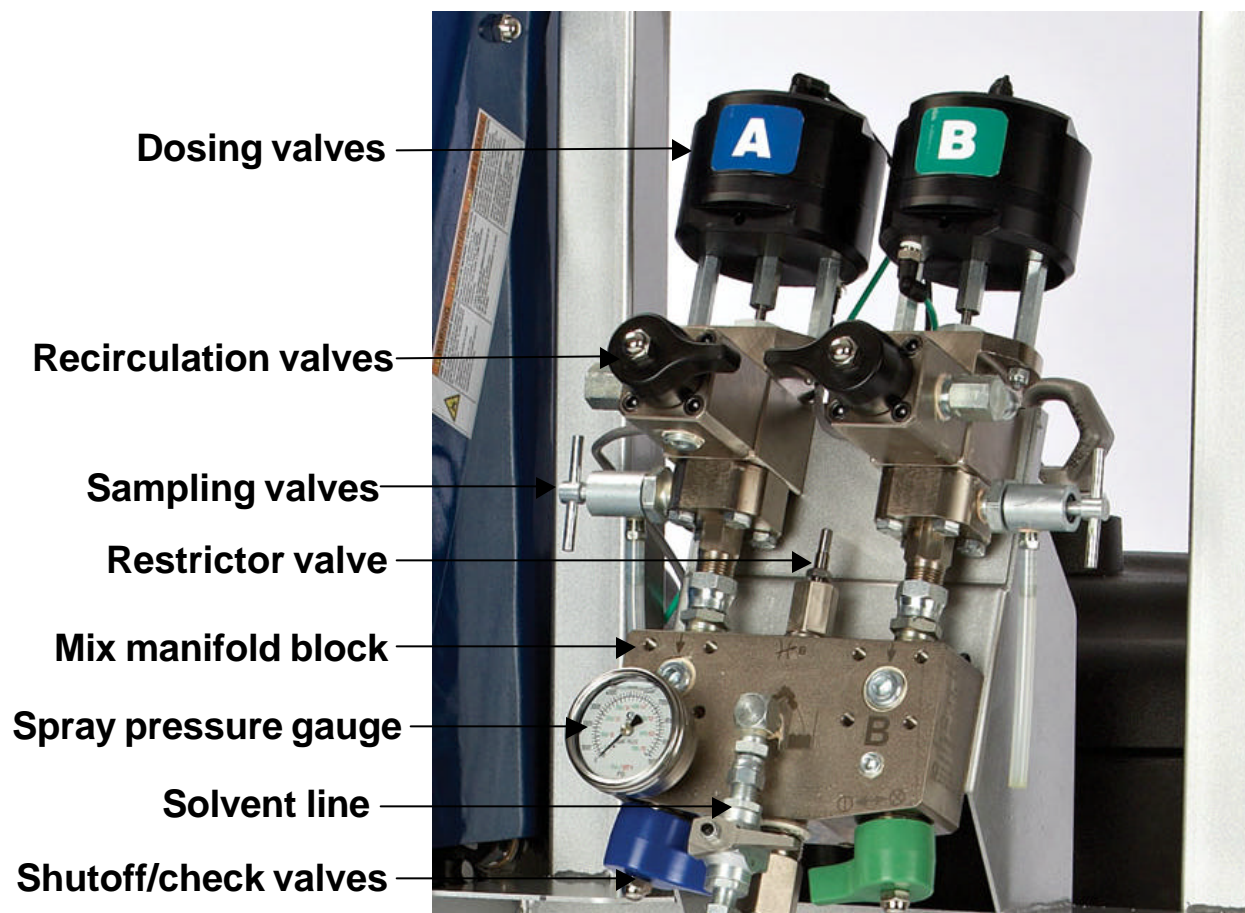
- **Fluid supply:**
 - A) (1) 20 gal. hopper and (1) 7 gal. hopper
 - B) (2) 20 gal. Hoppers (with agitators)
 - C) Drum feed: (2) agitator & (2) T2 pump kit
 - D) Drum feed: (2) agitator & (2) 5:1 Monark pump kit
- **Hopper heat (20 gal. Hopper only):**
 - A) Immersion heater (240V, 1500W)
 - B) Circulation kit (Husky pump w/VisconII heater)
- **Feed pumps (for 20 gal. hopper):**
 - A) 2:1 T2
 - B) 5:1 Monark
- **Agitators:**
 - A) Standard on 20 gal. hopper



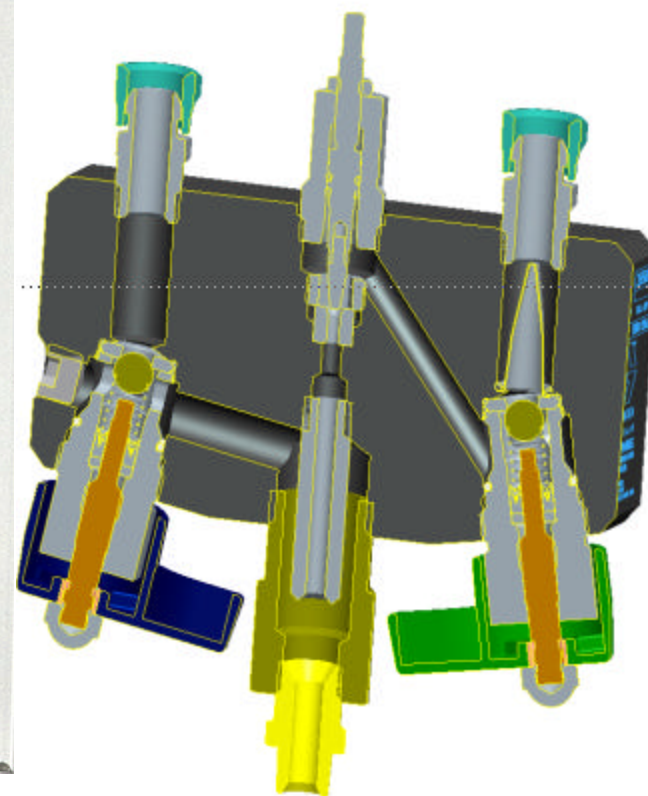
Fluid Flow Theory



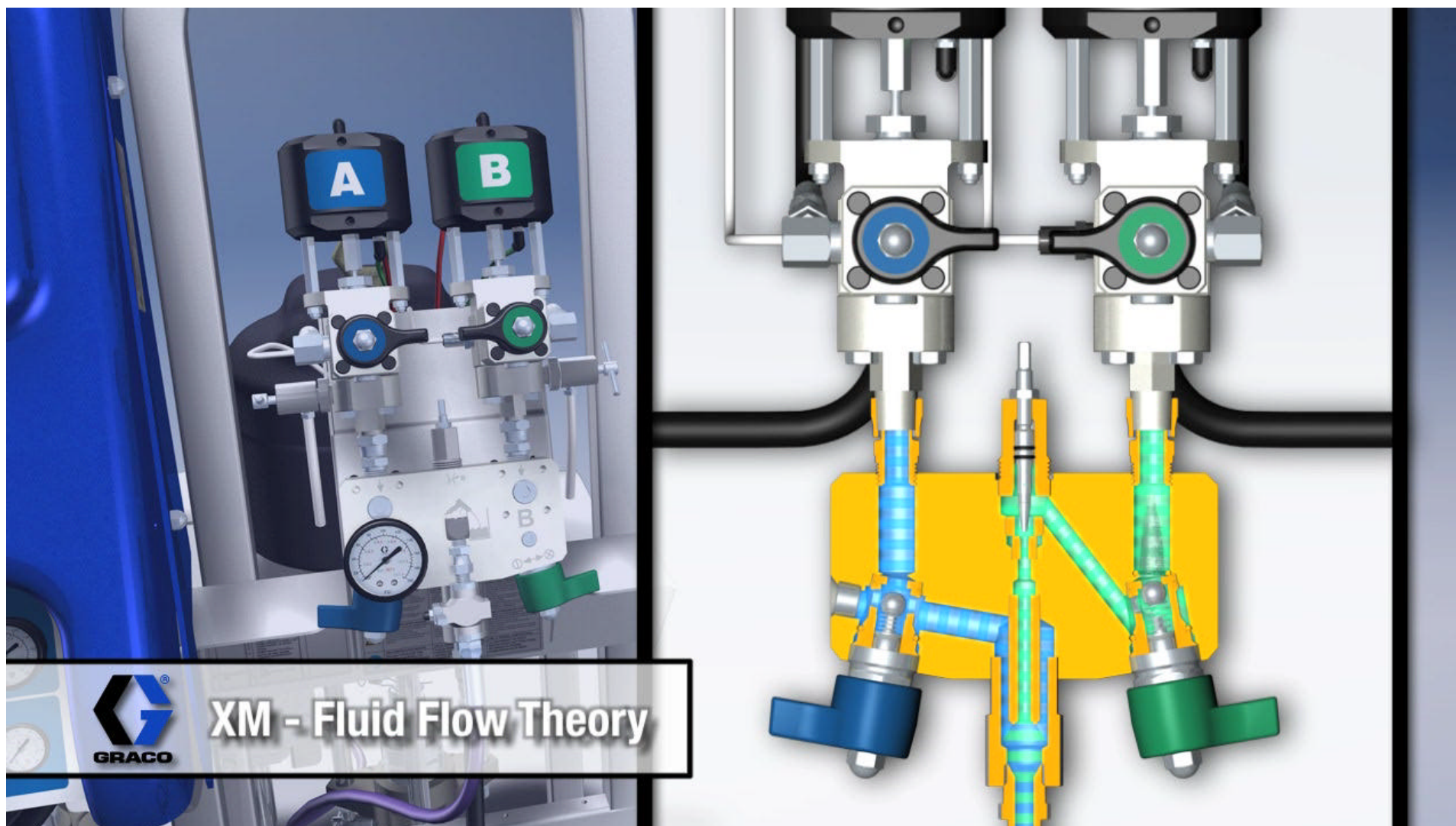
Fluid Control Assembly



Mix manifold cutaway

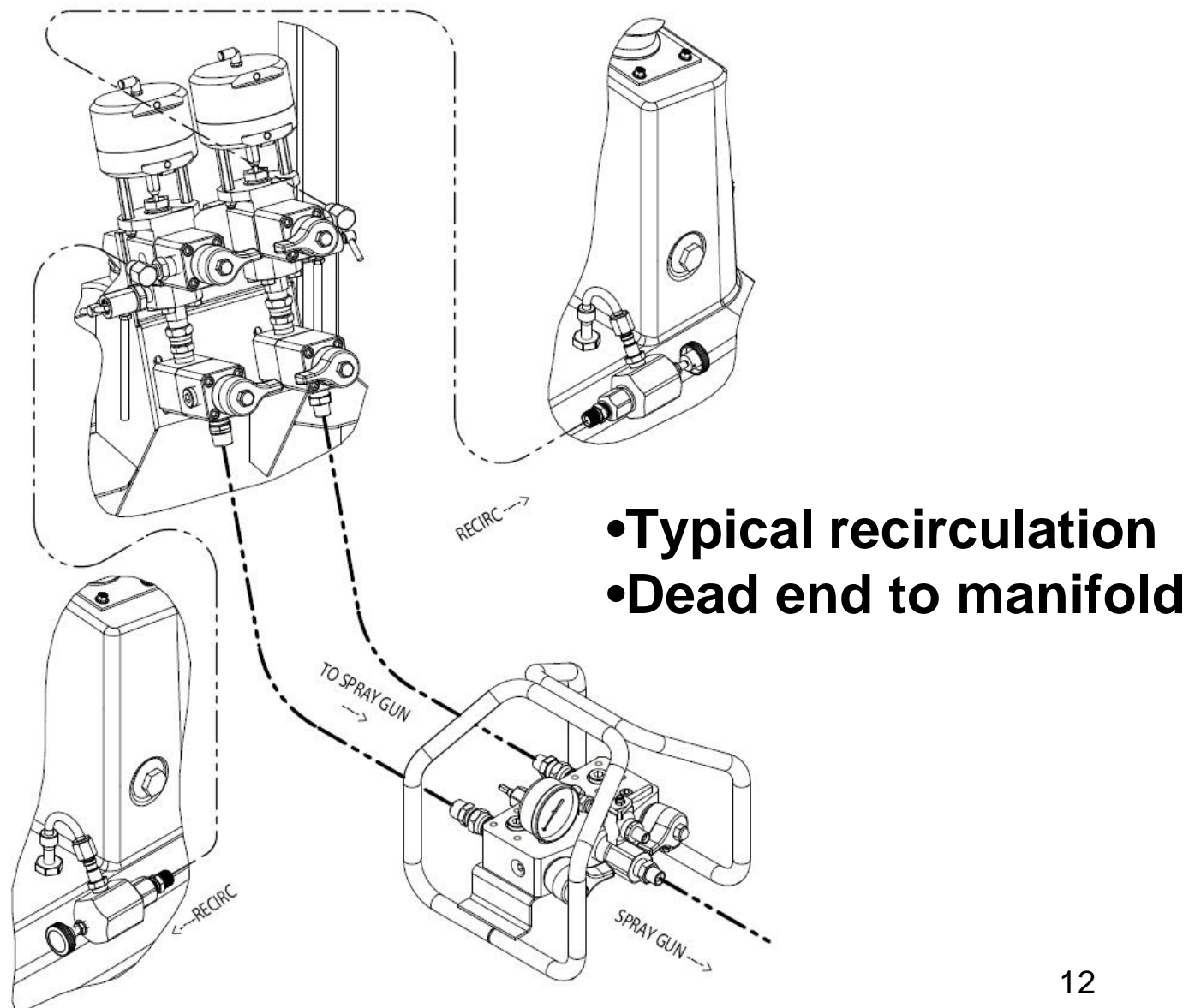


Fluid Control Assembly



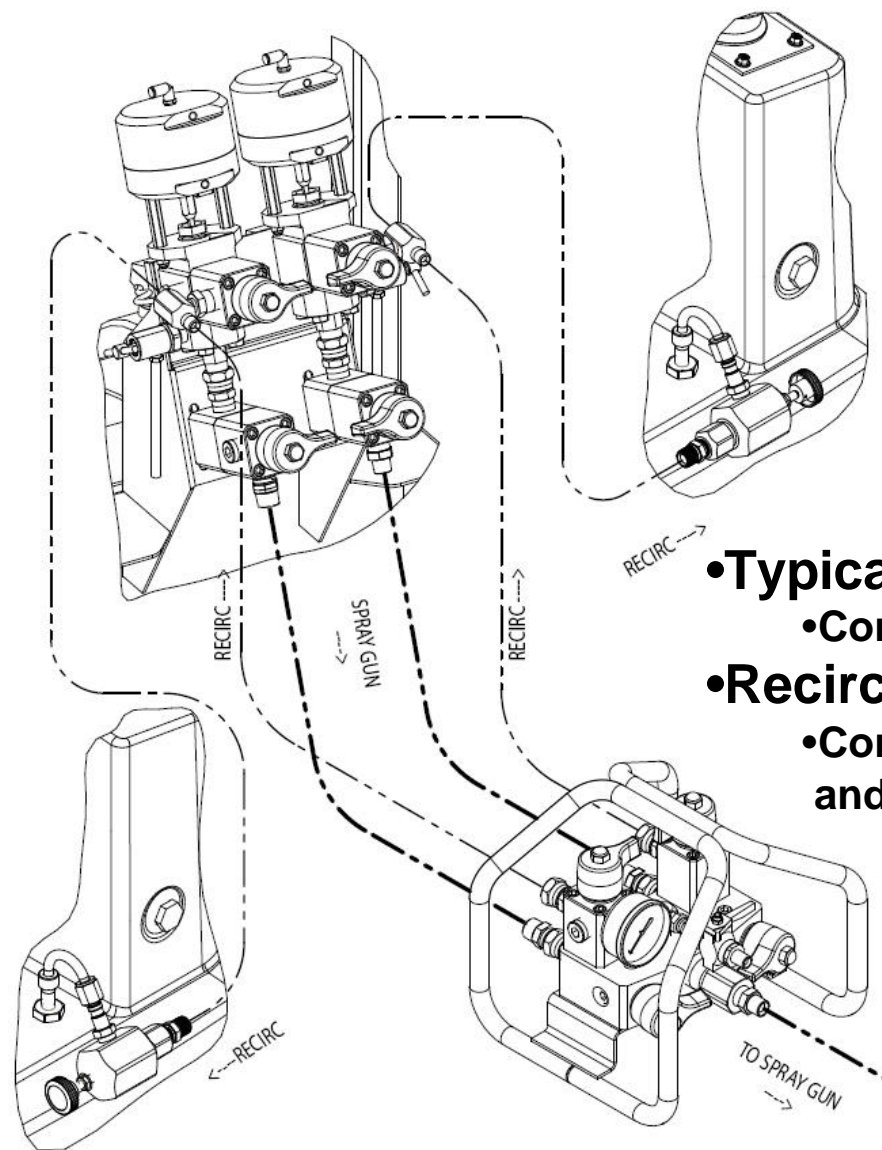
XM - Fluid Flow Theory

Remote Manifold Assembly



- Typical recirculation
- Dead end to manifold

Remote Manifold Assembly

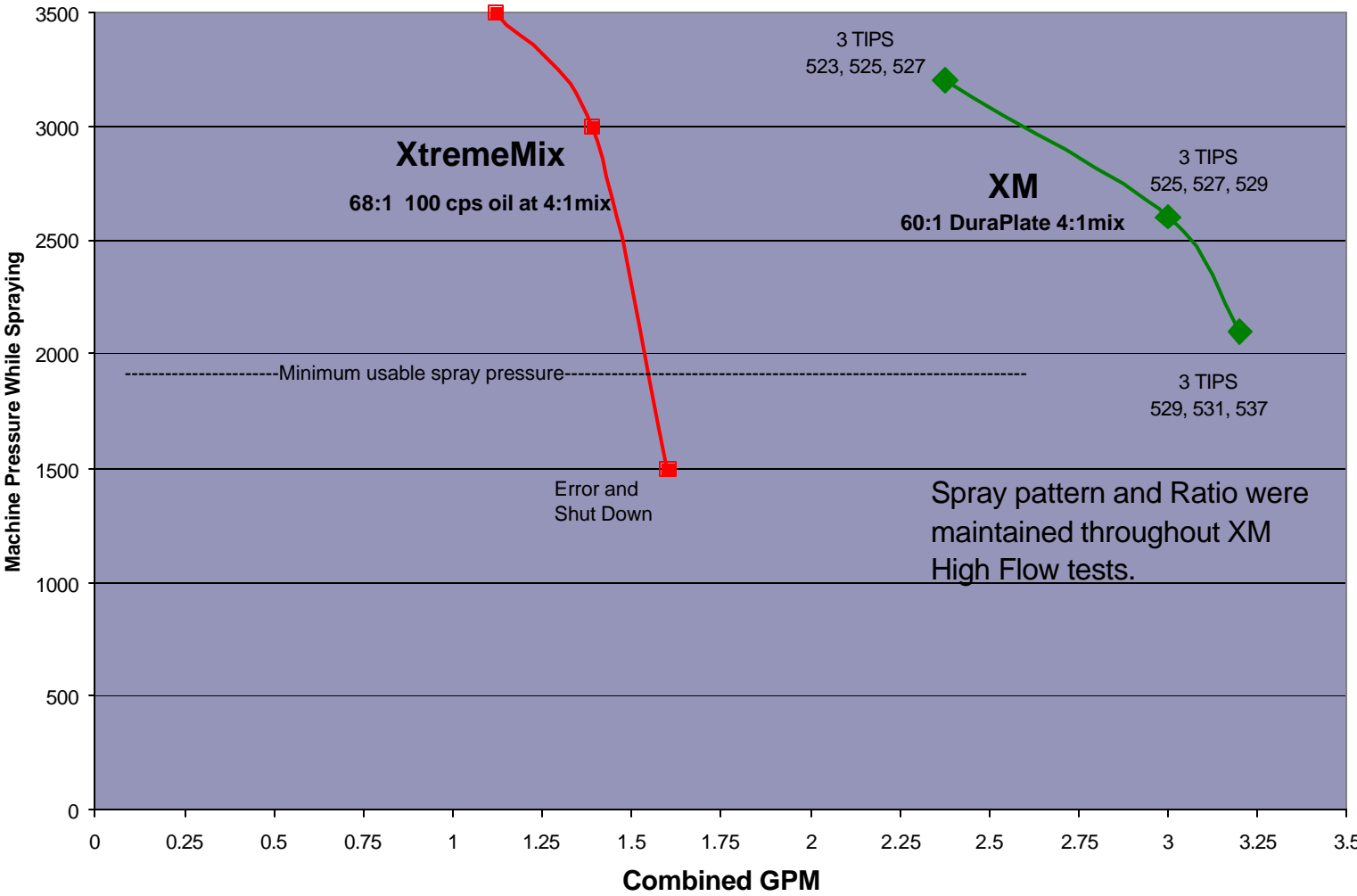


- **Typical recirculation;**
 - Conditions hopper material
- **Recirculation to manifold**
 - Conditions material in hose and manifold, heats manifold

Flow Rate Output Comparison



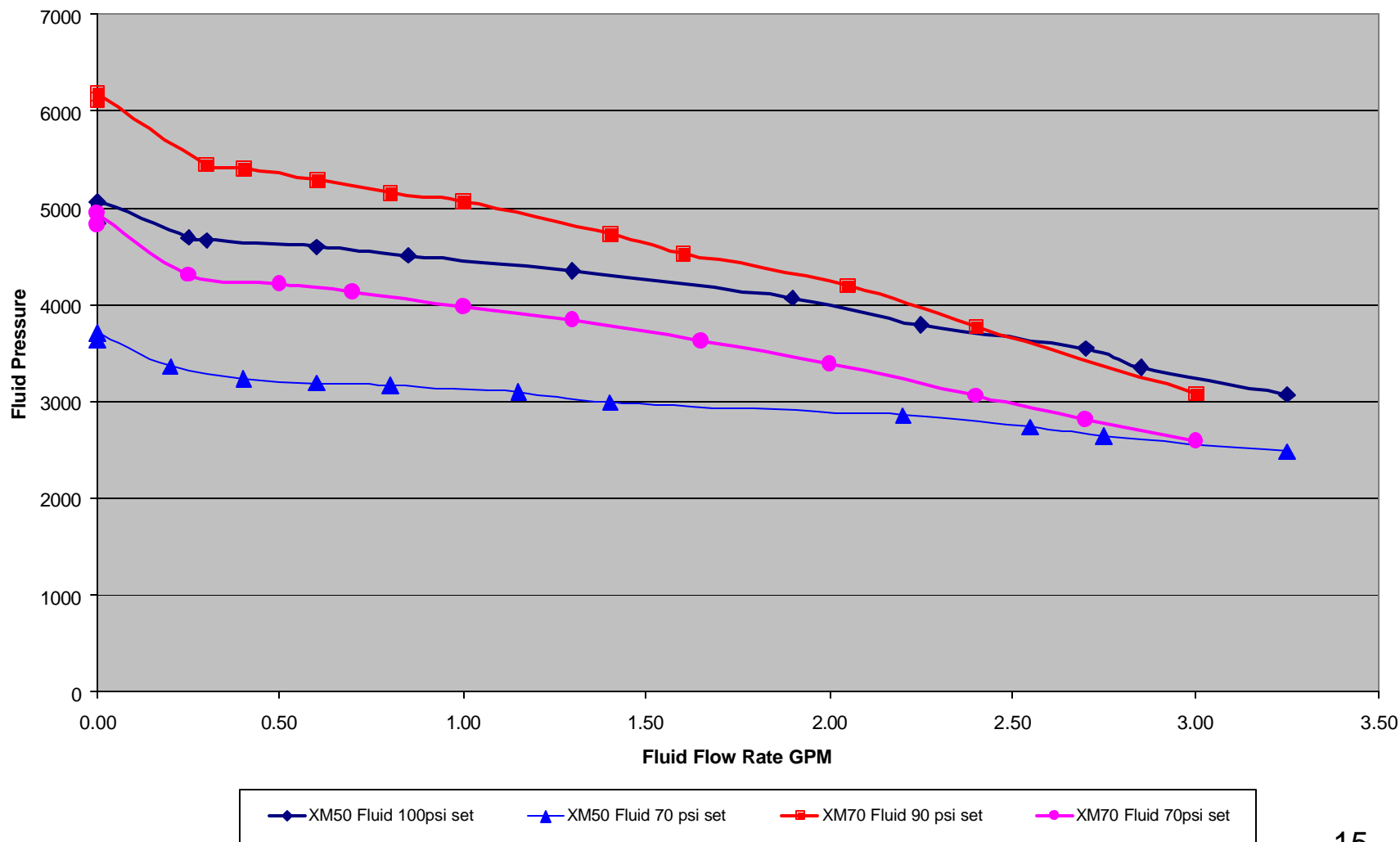
XtremeMix - XM





XM Performance

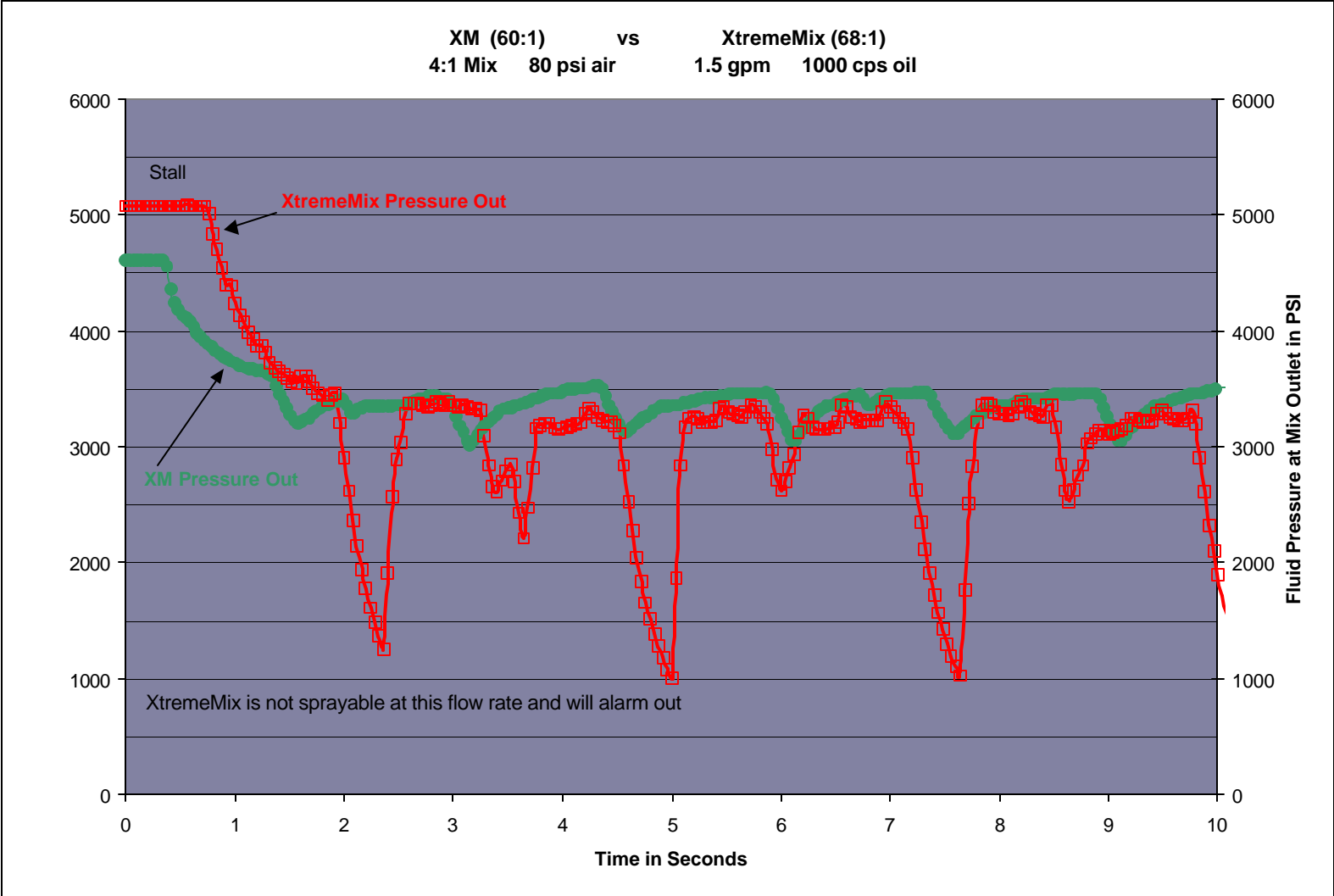
XM Combined Performance Curves
Maximum psi Air and 70 psi Air set points



Pressure Output Comparison



XtremeMix - XM

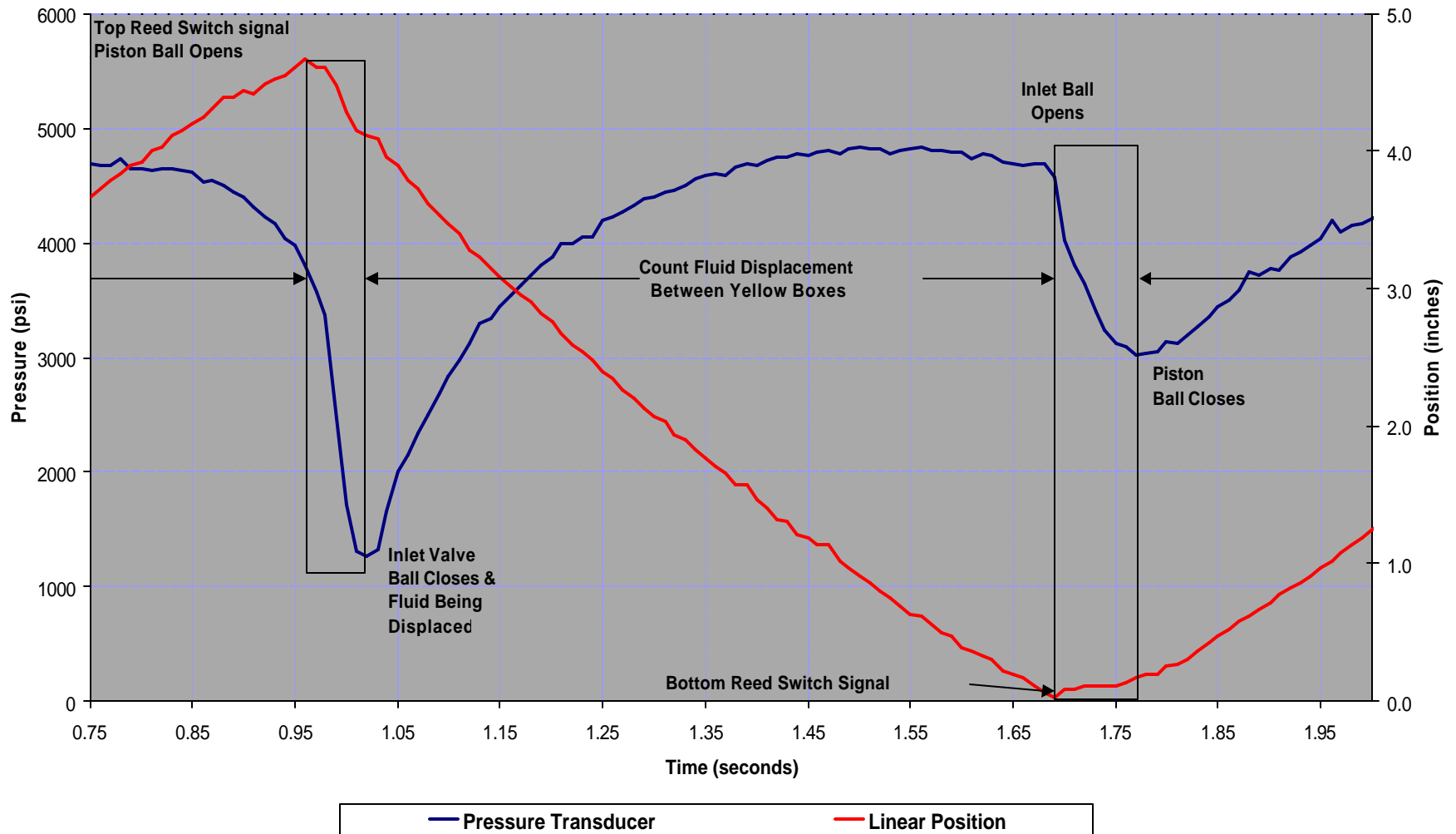


New Fluid Measurement Technique

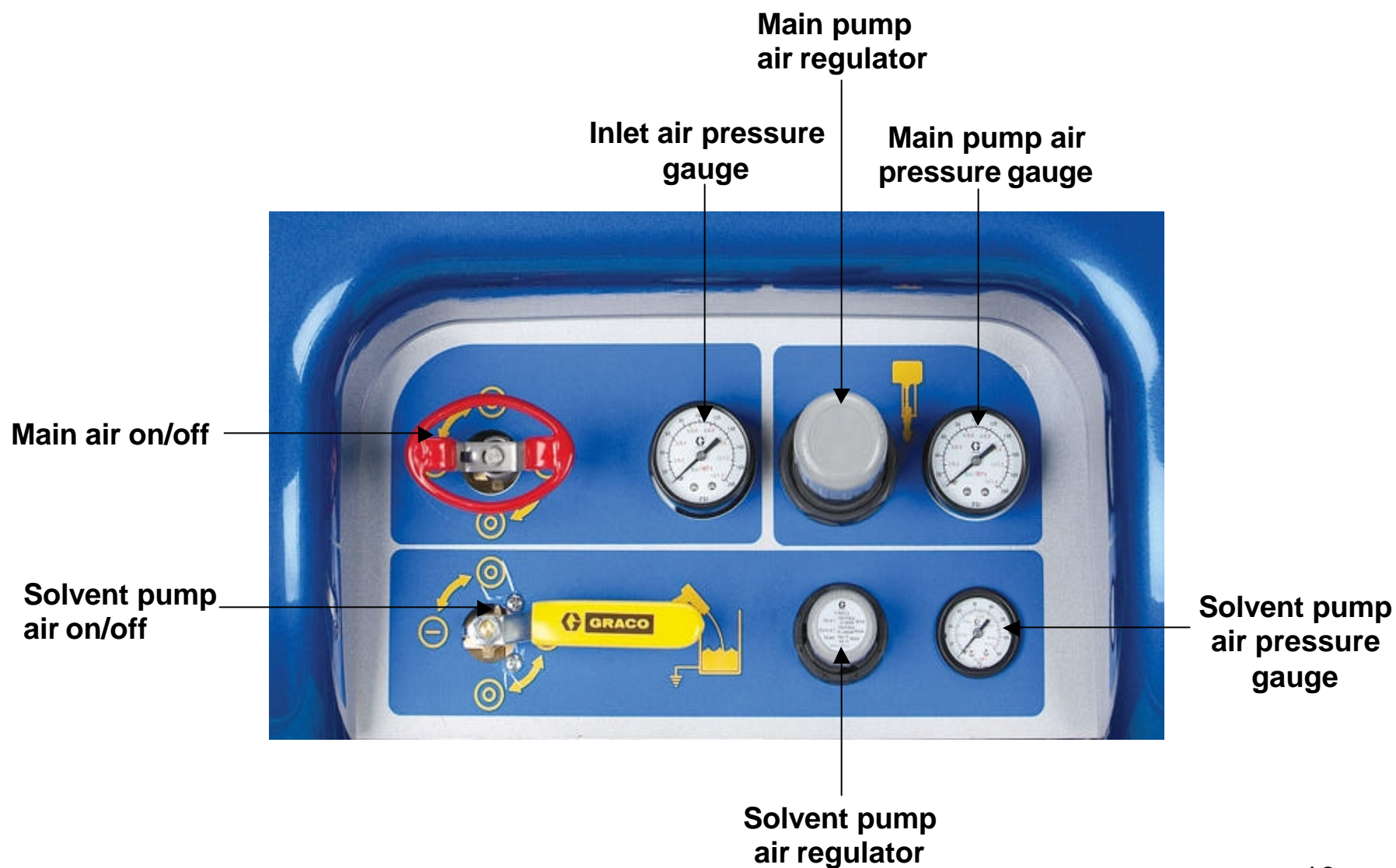
With NXT Motor Capability and Pressure Transducers



Improved Fluid Measurement Without Stalling the Pump to Guarantee Pump Loading



Air Controls



User Interface Display

- Icon based
 - Allows for worldwide communication
 - Similar across future Graco products
- 2 modes (key switch)
 - Command functions
 - Setup functions





Command Functions (operating settings)

- Spray
- Run pumps/circulate
- View mix ratio
- Run pump/batch tests
- Park pumps
- View/diagnose/clear alarms



Setup Functions (System settings)

- Mix ratio
- Pot life timer parameters
- Select which USB data logs to download
- Maintenance parameters
- Pressure/temperature limits
- Enable/disable display components

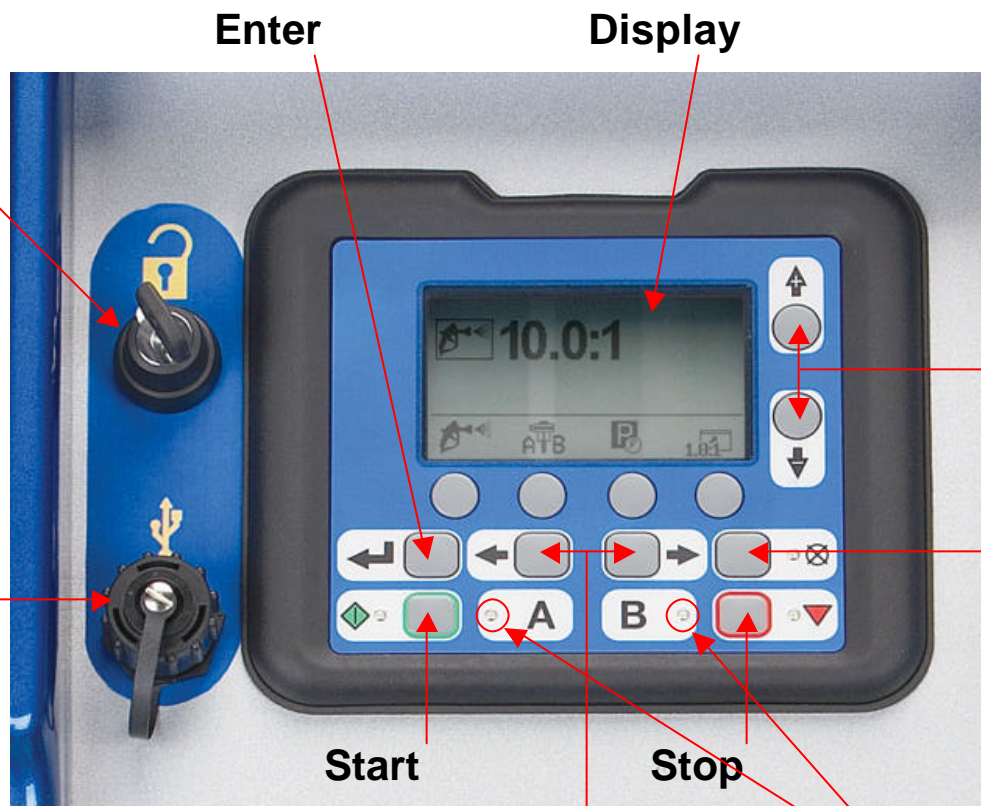
Controls User Interface

Mode key switch

- Switch between command and setup modes
- Remove key to lock settings

USB port

- Download spray data with USB drive.
- 4GB flash drive is included with each machine.



Scroll up/down

Clear

Start

Stop

Scroll right/left

Dosing valve indicator light

Display

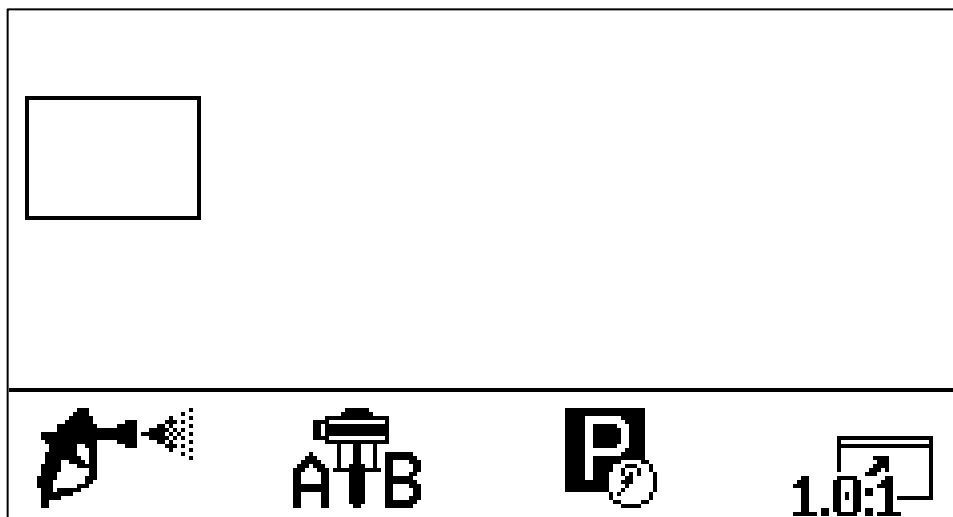
- **Command screen from factory is straightforward**
 - Ratio set point
 - Three operation modes
 - Spray
 - Pump test
 - Park
 - Actual spray ratio
- **Choose spray parameters in set-up mode ****
 - Temperatures
 - Pressures
 - Flow rate
 - Time/date
 - Pot life timer



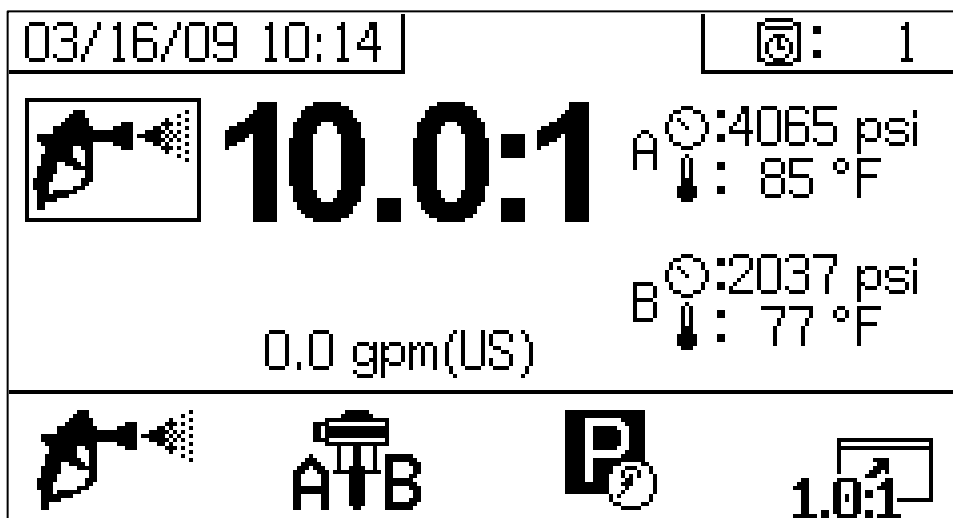
****Supports English or Metric units and worldwide date formats.**

Display

Default screen →

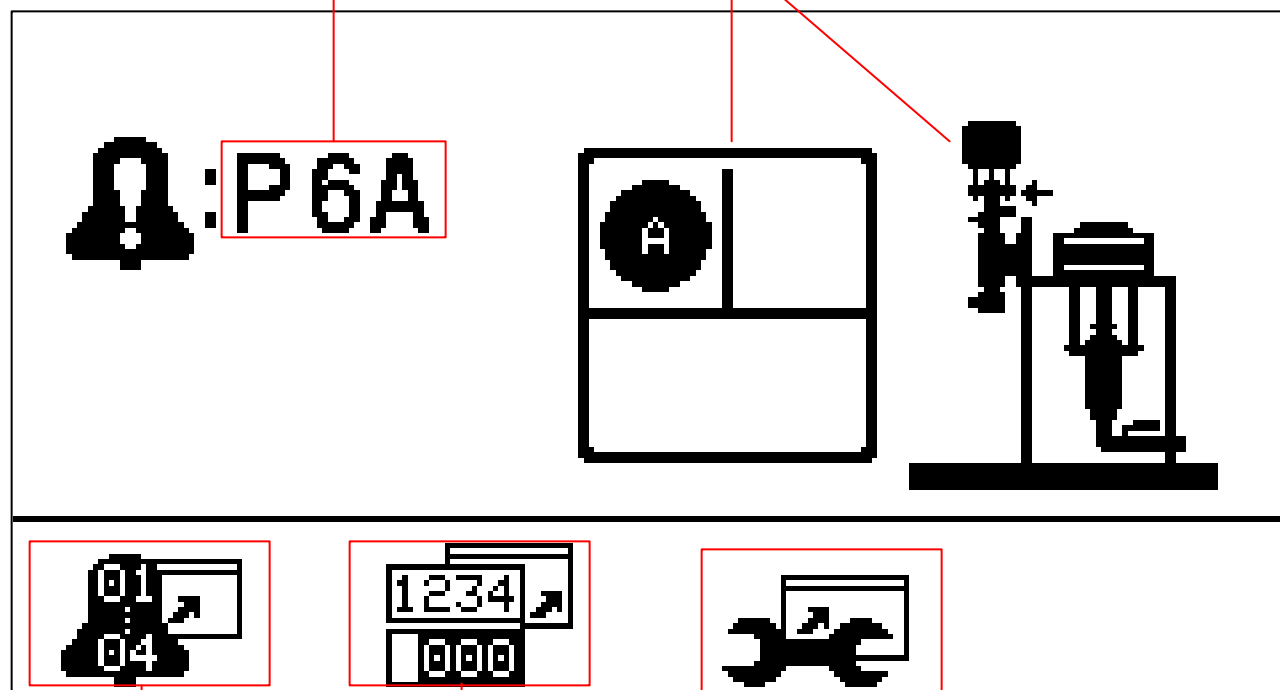


Additional options enabled
Spray mode selected →



Alarm Codes

3-digit identifier, Icon indicators



P: Pressure

6: Sensor/connection

A: Material A

Alarm log

Totalizer

Maintenance

ALARM CODES					
WHAT?		ALERT		WHERE?	
F	FLOW	1	LOW	A	MATERIAL A
N	TIME	2	DEVIATION	B	MATERIAL B
P	PRESSURE	4	HIGH	C	CONTROLLER
R	RATIO	5	LIMIT WARNING	D	DOSING/POT LIFE
T	TEMPERATURE	6	SENSOR OR CONNECTION	M	POWER OR AIR SUPPLY
V	VOLTAGE		FAILURE	R	RECIRCULATION
D	PUMP	A	PUMP RUNAWAY		
		D	PUMP DIVING/CAVITATION		
		E	PUMP TIME-OUT		
		F	PUMP FAILED TO STALL UP		
		G	PUMP FAILED TO STALL DOWN		
		H	PUMP FAILED TO STALL		
		J	LINEAR SENSOR FAILURE		
		K	DIRECTIONAL SWITCH FAILURE		
M	MAINTENANCE DUE	A	PUMP		
		E	DOSING VALVE		
		G	FILTER		



USB Logs

- Data downloads to USB drive
- Total of 4 separate logs available:
 - Spray (customized for end-user)
 - Alarm
 - Command
 - Data
- Time vary by amount of information to be downloaded
 - Customers can change “download depth”
- Intrinsically safe



Spray Log

- Acts as on board “inspector”
 - Set how often data will record and download depth
 - 60 second increments and 30 day depth is default, overwrites oldest data
 - Date
 - Time
 - Machine number
 - Temperature A & B
 - Pressure A & B
 - Ratio Actual & Setpoint
 - Restriction balance indicator
 - Flow
 - Alarms

Graco XM - Spray Log 1										
USB SN 09000117										
Software PN 15W201										
Software Rev 1.04.004										
3/31/2009 7:36										
Date	Time	Machine No	Temp A	Temp B	Press A	Press B	Ratio Actual	Ratio Setpoint	Restrictor	
3/13/2009	16:55:37	1001	92	88	1949	2187	3.987	4	< - - - - - - - - >	
3/13/2009	16:55:38	1001	92	88	1949	2187	3.989	4	< - - - - - - - - >	

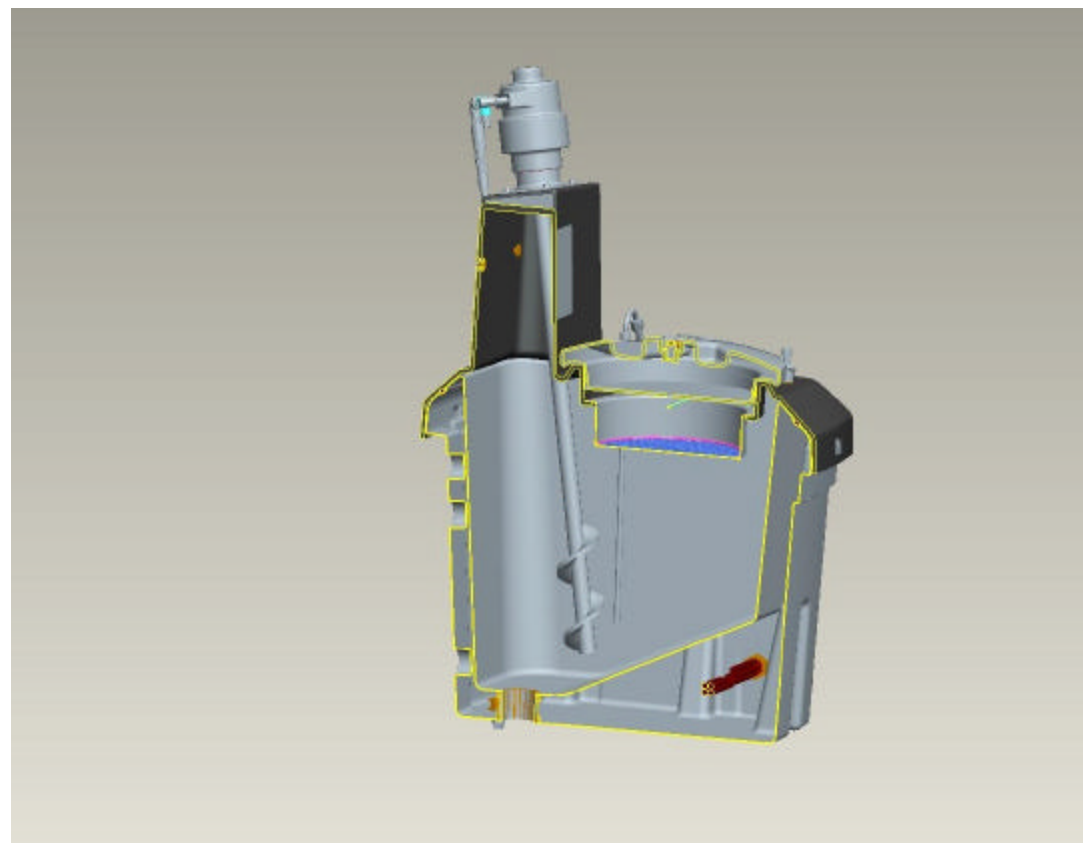


Material Hoppers

Agitator/Feed pump mounting threads



****Standard 7 gallon also available**

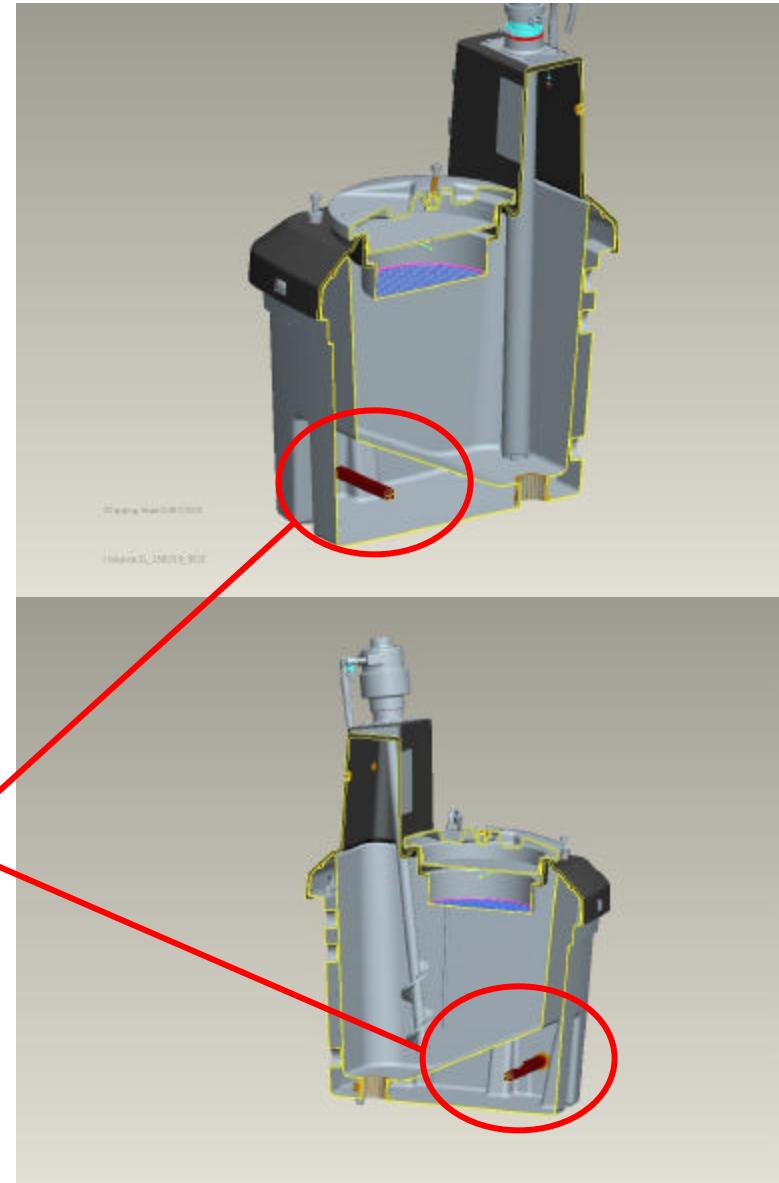


- Rugged double wall construction
- Conductive polyethylene
- Weight = 75.5 lbs
- Inner tank capacity (spray material) = 22 gal.
- Outer jacketed area capacity (heated material) = 12 gal.

Hopper Heat

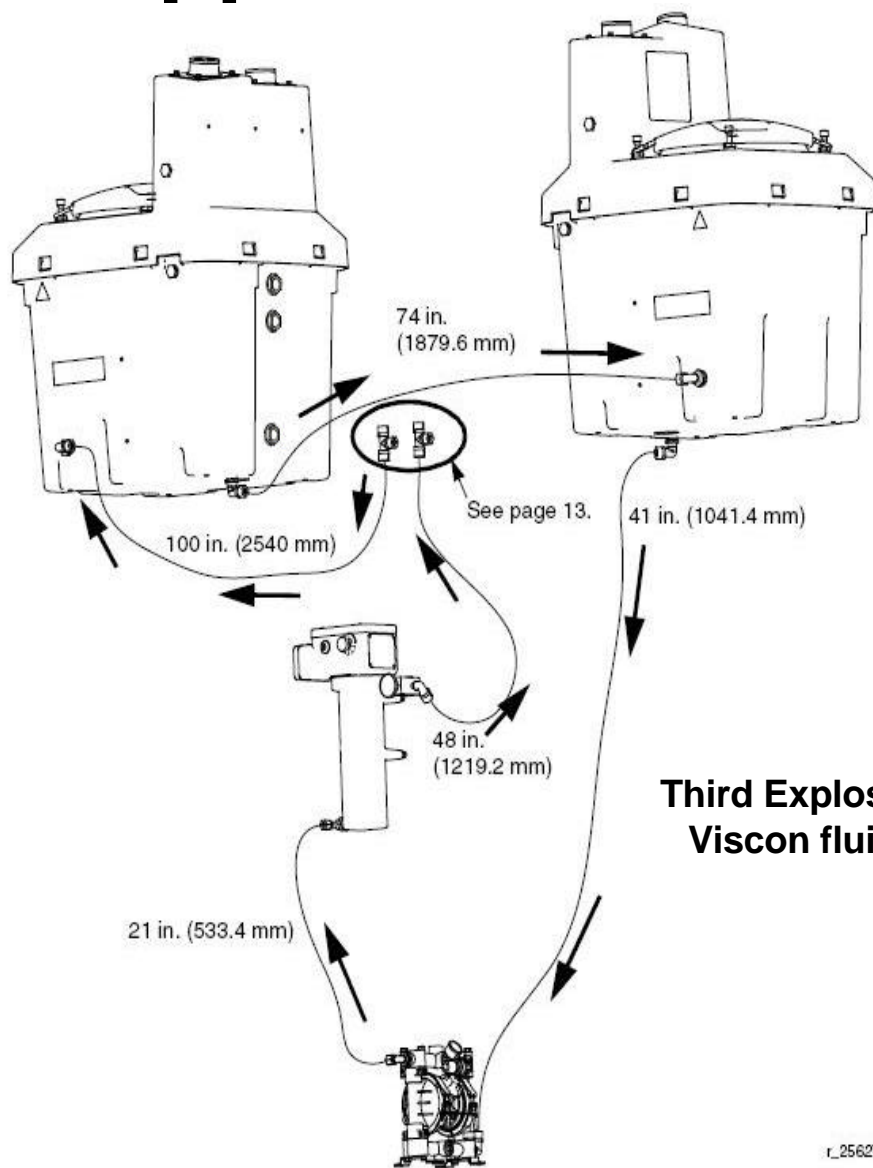
- Designed to MAINTAIN material temperature
- Heating material options:
 - Oil
 - 50% water, 50% ethylene glycol mixture

- Standard 240V, 1500W immersion heater
 - Not approved for explosive atmospheres

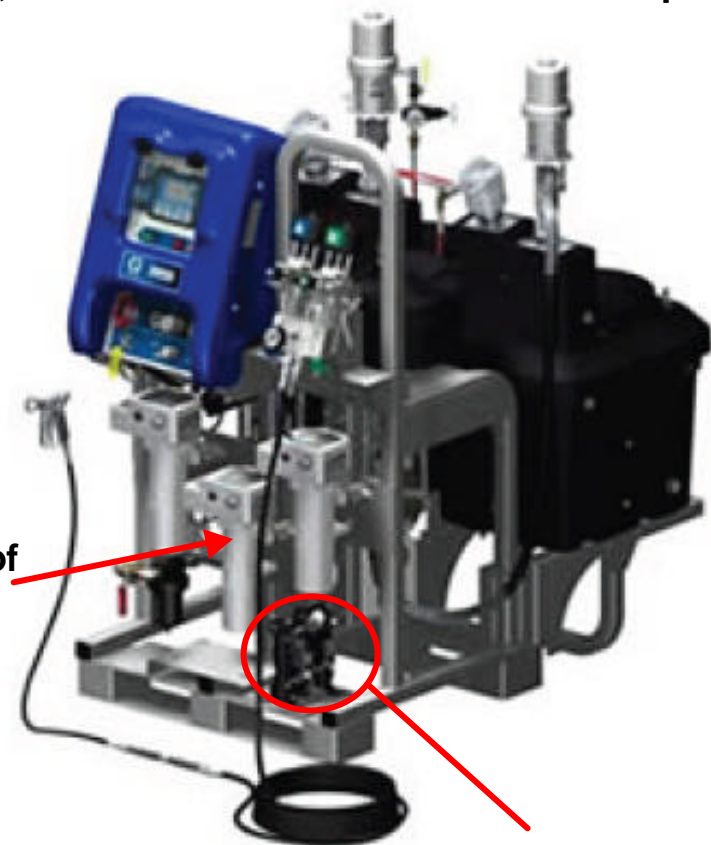


Hopper Heat Circulation Kit

- Approved for explosive atmospheres
- Heater must be purchased separately
- 4,000W of heat vs. 3000W immersion option



Third Explosion proof
Viscon fluid heater



Diaphragm pump

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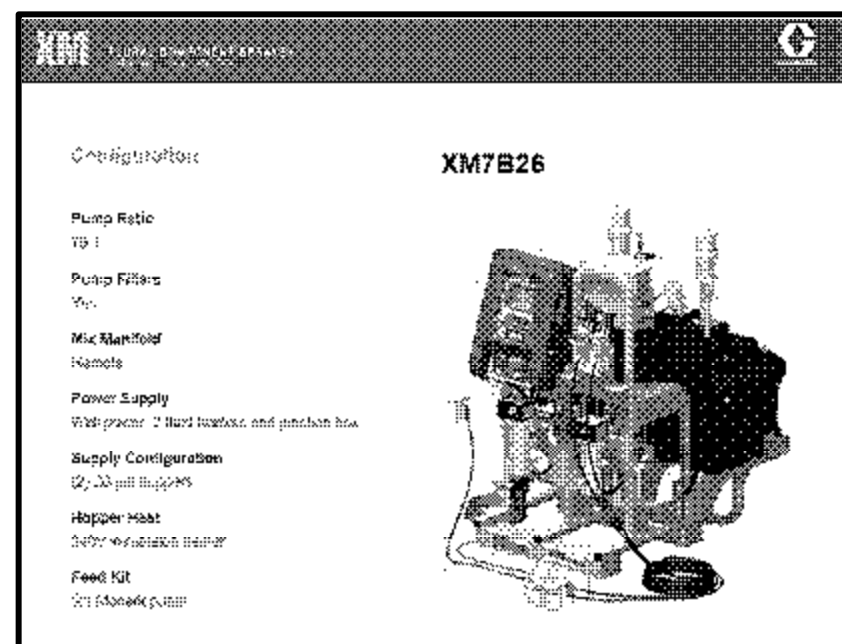


O.E.M. Configurations

- Total of 12 different options
 - Various combinations of pumps and controls
 - Carbon steel frame is NOT included
- Gives distributors extra flexibility to meet end-user needs.
- Not part of online selection tool.
 - List of options will be available on website

Configuration Selection Tool

- Designed to simplify ordering process
 - Breaks selection process down to 7 questions
 - Automatically builds 6 digit part number
 - Built-in rules for I.S. configurations (explosive atmosphere approvals)
- Available real-time on Graco.com
- Displays image of what is being selected
- Allows users to add accessory kits
- Print .PDF with selection summary
 - 6 digit Graco part number
 - Image of selected machine
 - List of machine characteristics
 - List of selected accessory kits





Base Machine Dimensions

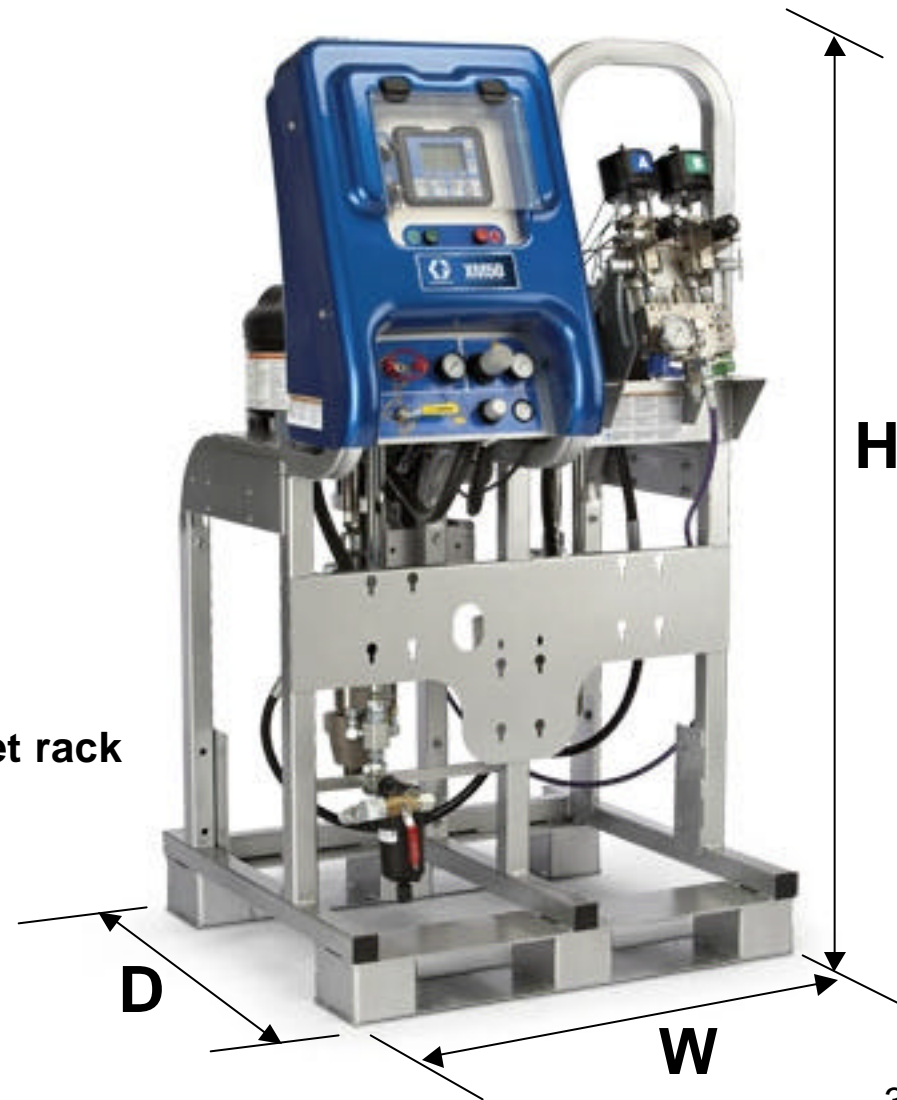
H = 5.8 ft

W = 3.25 ft

D = 3.16 ft

Weight = 1160 lbs

Frame: Carbon steel with built-in pallet rack





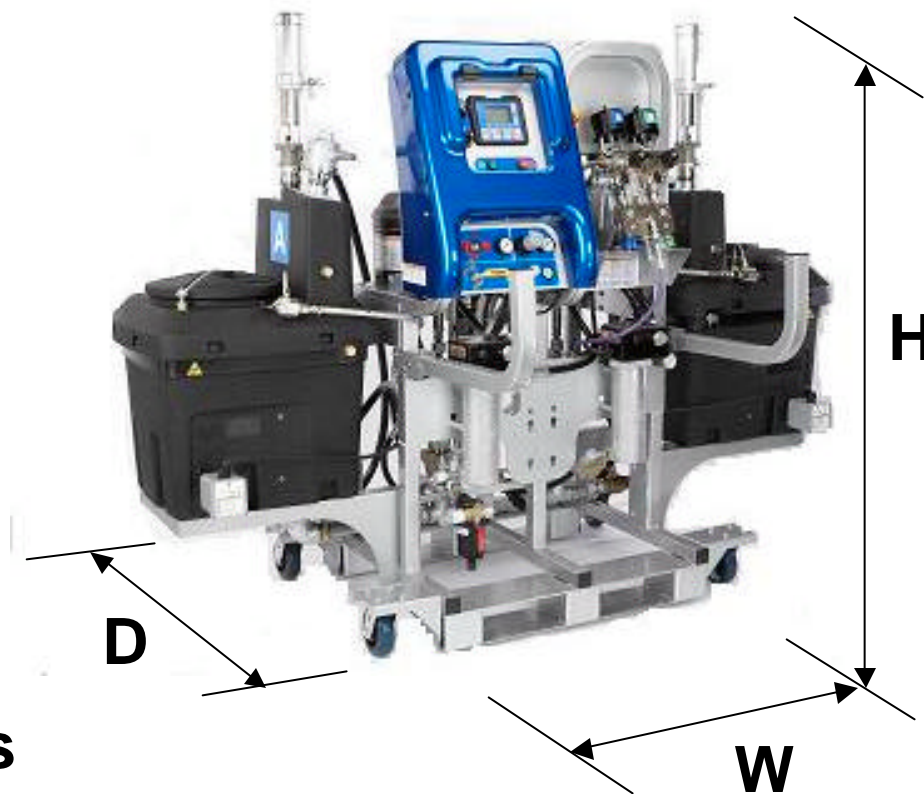
Dimensions Including Hoppers

Side mounted:

- H = 5.8 ft**
- W = 8.25 ft**
- D = 3.16 ft**
- Weight = 1550 lbs**

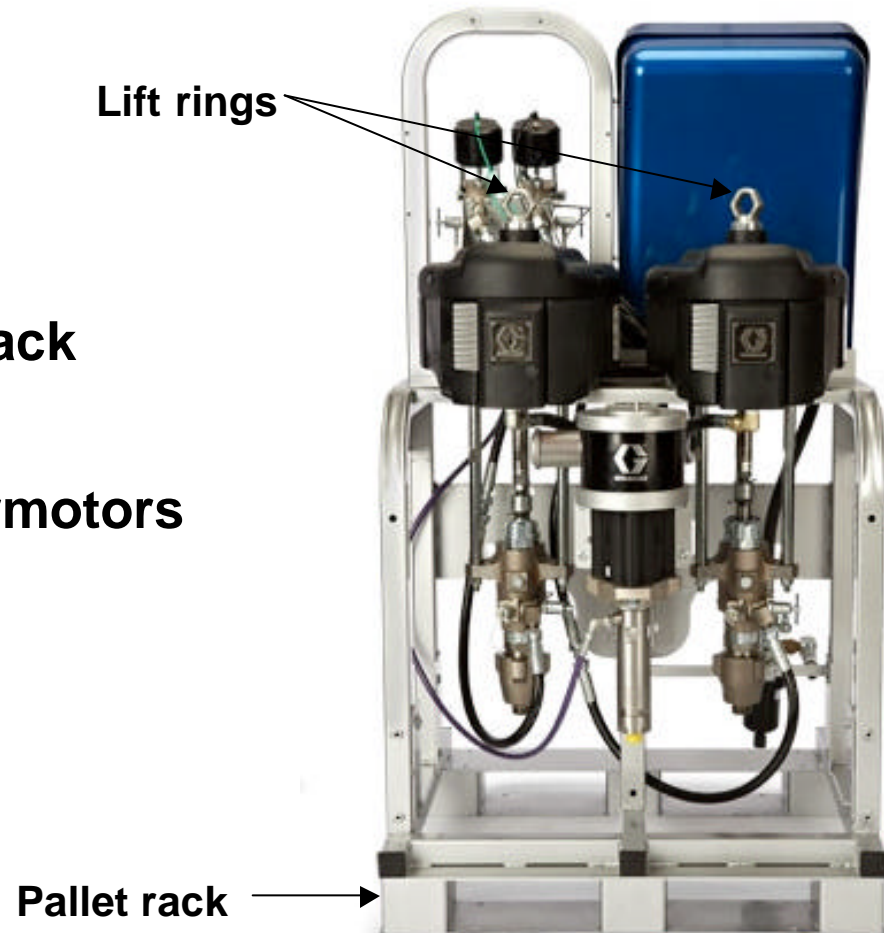
Rear mounted:

- H = 5.8 ft**
- W = 4.75 ft**
- D = 5.4 ft**
- Weight = 1550 lbs**



Transporting Options

- **Forklift**
 - Built-in pallet rack
- **Crane**
 - Lift rings on airmotors
- **Caster kit**



**See operation manual for detailed transporting instructions.



Additional Information

www.graco.com/xm

- Product animation
- Fluid flow theory animations
- Downloadable brochure