



# **Airless Spray Equipment**

For Protective Coatings Applications

PROVEN QUALITY. LEADING TECHNOLOGY.

# ▶ Graco Has You Covered

Whether it's a large coating project like a bridge, ship or tank, or a simple touch-up project that only takes a few hours, you depend on your spray equipment to deliver a flawless performance every time. Graco offers a complete lineup of the industry's most dependable single-component sprayers—in the exact size you need to accomplish any airless spray project.



HOW TO CHOOSE YOUR SPRAYER	King® XL70-290	King® XL70-180	King® XL40-180	Z25 / Z45 / Z60	Ex35/Ex45	Merkur® X48 / X72
<b>HOW LARGE IS YOUR PROJECT?</b> Typical Applications*	Large projects that require more duty cycle or multi-gun	Large projects single or multi-gun	Medium projects	Large projects	Medium to large projects	Smaller projects that require power and portability
<b>WHAT IS THE REQUIRED MATERIAL OUTPUT?</b> Output Range at 60 Cycles/min, gpm (lpm)	3.4 – 6.7 (12.9 – 25.4)	2.3 – 4.6 (4.6 – 17.4)	1.5 – 3.4 (5.7 – 12.9)	1.3 – 2.2 (4.8 – 8.3)	N/A Supports 0.021-0.023 in tip	.8 – 1.2 (3.0 – 4.5)
<b>WHAT IS THE DUTY CYCLE OF THE SPRAYER?</b> Production	Very High	High	Med – High	High	Med – High	Low – Med
<b>HOW MANY CREW MEMBERS CAN SPRAY FROM ONLY ONE UNIT?</b>	Multiple 1 – 6**	1 – 2	1	1	1	1
Motor Type	Air Operated - XL 10000	Air Operated - XL 6500	Air Operated - XL 3400	Electric - not approved for haz. location	Electric - approved for haz. location	Air Operated - NXT 1800
Motor Diameter, in (mm)	13 (330)	10.375 (263)	7.5 (190)	N/A	N/A	7.5 (190)
Motor Displacement, cc/stroke	10330	6500	3400	N/A	N/A	1800
Working Pressure, psi (bar)	4800 – 7250 (331 – 500)	4550 – 7250 (314 – 500)	3150 – 4000 (217 – 276)	2600 – 6000 (179 – 414)	3500 – 4500 (241 – 310)	4800, 7200 (331, 496)

\* General guidelines only. Please consult your Graco distributor to ensure you order the proper sprayer for your application.

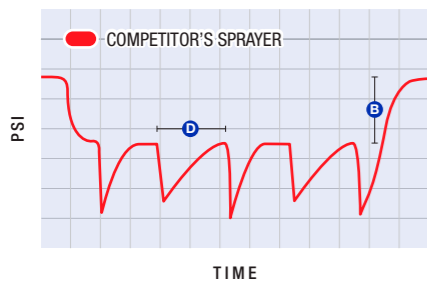
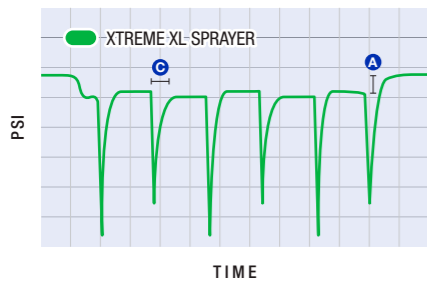
\*\* Depending on spray tip size and material.

# ▶ King® Sprayer with XL10000 Motor

If you have large jobs that require a high-output sprayer, then you need the King XL80 Sprayer. Configured with the Graco XL Air Motor, the largest air motor Graco has ever built, the King XL80 handles the workload equivalent of multiple sprayers.

## High Pressure and High Flow

Even at high cycle rates, the Xtreme XL Sprayer maintains the high pressure needed to effectively spray up to six guns. Compare the difference in pressure drop and pulsation between the Xtreme XL Sprayer and a competitive brand sprayer at high flow rates.



- A** A 500 psi (34.5 bar) dynamic pressure drop
- B** An 1,800 psi (124 bar) dynamic pressure drop
- C** Little to no perceivable pulsation
- D** Slow changeover means pulsation and pattern fluctuation

## Manual Shuttle Override Button

- Allows manual restart of air motor if main valve experiences ice buildup

## Simplified Valve Design

- Fewer components for easier serviceability
- Little to no pulsation or pattern fluctuation, even with multiple guns
- Quiet operation, even compared to smaller motors

## Xtreme® Lowers

- Easy to maintain with quick knockdown
- New packings for better seal
- Available in longer lasting MaxLife®

## 10,000 cc XL Air Motor

- For 45:1, 70:1, 80:1, 95:1 sprayers
- 13 in (330 mm) diameter
  - Air-piloted for sharp changeovers
- Low pulsation, even with multiple guns

## De-Ice Bleed Air Control

- Maintains performance during heavy icing conditions

## External Pilot Lines

- Isolate lines from cold valve body
- Eliminates non-restartable icing stalls

## Cart with Wheels

- For portability and easy maneuverability
  - Flat-free tires



# ▶ King Sprayer with XL3400 & XL6500 Motor

Designed with Graco's XL Air Motor, the King XL70 and XL40 Sprayers are proven to outperform and outlast all other sprayers in its class.

It easily handles the toughest protective coatings and corrosion control materials.



## **Exposed Thermally Isolated Poppets**

- Accessible for service

## **De-icing Valve**

- Reduces main valve icing

## **Tool Box**

- Conveniently mounted on cart
- Store your day-to-day essential tools and parts

## **Trusted XL Motor**

- Sharp, smooth changeovers
- Low pulsation, even with multiple guns
- Removable cover for valve maintenance

## **Protective Rod Guard**

- Prevent any potential pinch-point injuries while pump is in motion
- Keeps debris out of throat wet cup

## **Robust Air Controls**

- High capacity filter regulator
- Lubricator option for extreme operating conditions

## **Xtreme® Lowers - (MaxLife shown)**

- Easy to maintain with quick knockdown
- New packings for better seal
- Available in longer lasting MaxLife

## **Improved Siphon Hose**

- Shorter length for easy clean up
- Save flush material
- Less material waste

## **Cart with Wheels**

- For portability and easy maneuverability
- Flat-free tires

# ► Which King is Right For You?



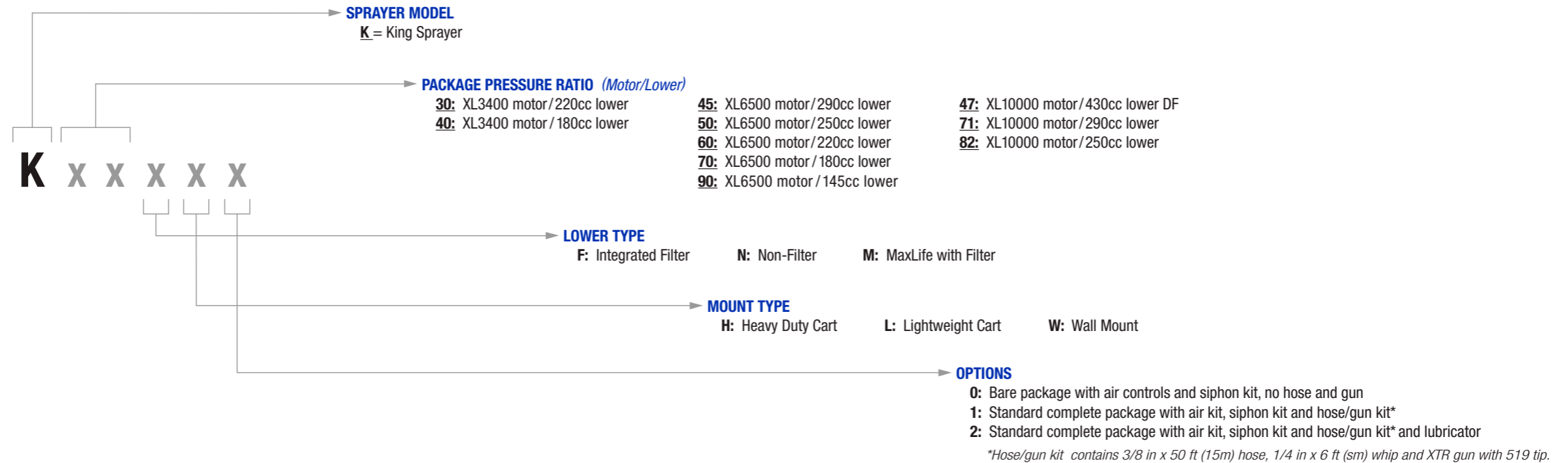
MOTOR PACKAGE	XL10000 MOTOR			XL6500 MOTOR					XL3400 MOTOR	
KING SPRAYER MODEL	XL45-430 <sup>†</sup>	XL70-290	XL80-250	XL45-290	XL50-250	XL60-220	XL70-180	XL90-145	XL30-220	XL40-180
Output per cycle	430cc	290cc	250cc	290cc	250cc	220cc	180cc	145cc	220cc	180cc
Maximum Working Pressure	4800 psi (331 bar, 33.1 MPa)	7250 psi (500 bar, 50.0 MPa)	7250 psi (500 bar, 50.0 MPa)	4550 psi (314 bar, 31.4 MPa)	5200 psi (359 bar, 35.9 MPa)	6000 psi (414 bar, 41.4 MPa)	7250 psi (500 bar, 50.0 MPa)	7250 psi (500 bar, 50.0 MPa)	3150 psi (217 bar, 21.7 MPa)	3800 psi (262 bar, 26.2 MPa)
Maximum Air Input Pressure	100 psi (7 bar, .07 MPa)	100 psi (7 bar, .07 MPa)	88 psi (6 bar, .60 MPa)	100 psi (7 bar, .07 MPa)	100 psi (7 bar, .07 MPa)	100 psi (7 bar, .07 MPa)	100 psi (7 bar, .07 MPa)	80 psi (5.5 bar, .55 MPa)	100 psi (7 bar, .07 MPa)	100 psi (7 bar, .07 MPa)
Output at 60 Cycles/min	6.7 gpm (25.4 lpm)	4.6 gpm (17.4 lpm)	4 gpm (15.1 lpm)	4.6 gpm (17 lpm)	4.0 gpm (15.2 lpm)	3.4 gpm (12.9 lpm)	2.9 gpm (11 lpm)	2.3 gpm (8.7 lpm)	3.4 gpm (12.9 lpm)	2.9 gpm (11 lpm)

For more information on Parts & Accessories for High Pressure Protective Coatings Equipment, see brochure 349329.

<sup>†</sup>Uses Dura-Flo™ lower

# King Ordering Information

## Ordering Matrix



### King Heavy-Fluid, high pressure spray packages uses XL10000 motor

Designed for materials that will gravity feed, but are higher viscosity and filled, requiring a filter-less pump lower for less plugging. Packages include 10 gal (38 L) SST hopper, no fluid filter, 3/4 in outlet check valve, 3/4 in x 50 ft (15 m) hose, 1/2 in x 25 ft (7.6 m) whip and XHF spray gun with 429 tip.

- 24X593 King XL70-290 Heavy-fluid\* spray package
- 24X594 King XL80-250 Heavy-fluid\* spray package

\*Heavy-fluid materials vary and should be tested with a qualified distributor. Material should be pourable and self-leveling.

### King Cart Packages without Lower, no lubricator

- KN3DHO XL3400 on a Bare Heavy-Duty Cart\*
- KN3DLO XL3400 on a Bare Lightweight Cart\*
- KN6DHO XL6500 on a Bare Heavy-Duty Cart\*
- KN6DLO XL6500 on a Bare Lightweight Cart\*

\*Add any Xtreme Lower (Sizes 145cc-290cc) to make a Package. Includes tie rods, coupling kit and a suction hose.

### King Accessories

- |        |   |        |  |
|--------|---|--------|--|
| 24X552 | DataTrak kit for XL 3400, XL 6500, XL 10000 motors, no runaway solenoid   | 17V322 | Low Noise Motor Conversion Kit for XL 3400 & XL 6500 Motors      |
| 24X550 | DataTrak kit for XL 3400, XL 6500, XL 10000 motors, with runaway solenoid | 24X570 | 10-gal SST hopper kit for XL 3400, XL 6500, XL 10000 pkgs.       |
| 116635 | Air filter element  | 17V587 | 4-gun spray line manifold with ball valves, no independent flush |
| 244841 | King Cart Lubricator Kit  | 262826 | Gun Splitter, 2 guns, with independent flush                     |
| 202659 | Air motor lubricator oil  | 206994 | Throat Seal Liquid (TSL)   |

# ▶ Hazardous Location Ex45 and Ex35 Electric Series

Graco's Ex45 and Ex35 Electric Airless Sprayers are the world's first electric sprayer for protective coatings approved for hazardous locations. The Ex series operate on a more reliable, convenient and available electric power source, which improves jobsite inefficiencies associated with compressors.

If your air compressor goes down, you no longer have to stop production. More so, electric technology eliminates pulsation and motor icing making your jobs run smoothly - every time!

## *New Driver*

- Updated driver for complete safety while spraying in hazardous locations
- Minimal service driver only requires oil
  - More up-time, less hassle, reduced maintenance costs

## *Pressure Control Knob*

- Minimal training required

## *Built-in Disconnect Switch*

- Designed for explosive atmospheres

## *Heavy Duty Cart*

- Built for your rugged job-site

## *Xtreme® Lower*

- 145cc – Ex45
- 180cc – Ex35

## *Inlet Housing and Suction Set*

- Reduced material and solvent requirements when priming/flushing

## *Electrically Operated*

- No compressor maintenance costs
  - Runs on 240V/16A power

## *Drain/Purge Valve*

- Helps eliminate cured material build-up

## *Check Valve*

- Helps maintain consistent fluid pressure



## ► Z60, Z45 and Z25 Electric Series

The Z60, Z45 and Z25 Sprayers are an electric alternative to air-operated single-leg sprayers. They produce a smooth, consistent, evenly distributed spray pattern – without the need to tow a large compressor.

### *Disconnect Switch*

- Easily accepts 240V x 1-phase power

### *Portable, Lightweight Cart*

- Easy to maneuver

### *Xtreme Lower*

- 145cc for optimal pressure flow
- Quick knock down for easy repairs



### *Dual Cooling Fans*

- Sprayer operates in temperatures up to 120°F (50°C)
- Ideal for continuous duty applications

### *Electric Driver*

- Powerful and capable – up to 6000 psi (414 bar, 41.4 MPa)
- Fit for outdoor use



# ► Which Electric System is Right For You?



	<b>Ex - Series</b>		<b>Z - Series</b>		
<b>APPROVALS</b>	<b>Hazardous Locations: ATEX, IECex, FM-US, FM-CAN</b>		<b>Non-Hazardous Locations: Not for use in explosive atmospheres</b>		
<b>MODEL</b>	<b>Ex45</b>	<b>Ex35</b>	<b>Z60</b>	<b>Z45</b>	<b>Z25</b>
Maximum Working Pressure	4500 psi (310 bar, 31.0 MPa)	3500 psi (240 bar, 24.0 MPa)	6000 psi (414 bar, 41.4 MPa)	4500 psi (310 bar, 31.0 MPa)	2600 psi (179 bar, 17.9 MPa)
Maximum Recommended Tip Size	0.021 in (0.53 mm)	0.023 in (0.58 mm)	0.021 in (0.53 mm)	*XHD529	*XHD651
Flow Rate @ Spray Pressure	0.6 gpm (2.3 lpm) @ 4000 psi (276 bar, 27.6 MPa)	0.7 gpm (2.7 lpm) @ 3200 psi (220 bar, 22.0 MPa)	0.7 gpm (2.7 lpm) @ 5000 psi (345 bar, 34.5 MPa)	1.2 gpm (4.5 lpm) @ 4000 psi (276 bar, 27.6 MPa)	2.0 gpm (7.5 lpm) @ 2300 psi (159 bar, 15.9 MPa)
Pump Lower	145cc	180cc	145cc	145cc	250cc
Input Power	2.5 kVA	2.5 kVA	15A	20A	20A
Input Voltage	200 - 240V, 1-phase, 50/60Hz		200 - 240V, 1-phase, 50/60Hz		
Operating Temperature Range	23°F to 120°F (-5°C to 50°C)		23°F to 120°F (-5°C to 50°C)		
Sound Pressure	<80 dB (A)		<80 dB (A)		
Operation Manual	3A3164	3A3164	3A6917	333208	333208

\*Comes with XHD Tip for use with waterbased waterproofing materials.

# ► Which Electric System is Right For You?

## Ex45 Series – 4500 psi (310 bar, 31.0 MPa) Complete packages include: XTR-5 spray gun with 519 tip; 3/8 in x 50 ft (15.2 m) Xtreme-Duty™ hose; 6 ft (1.8 m) whip hose.

24Y901	Cart mount, integrated filter, complete pkg.	24Y905	Cart mount, SS hopper, integrated filter, complete pkg.	24Y909	Wall mount, integrated filter, complete pkg.
24Y902	Cart mount, integrated filter, bare pkg.	24Y906	Cart mount, SS hopper, integrated filter, bare pkg.	24Y910	Wall mount, integrated filter, bare pkg.
24Y903	Cart mount, no filter, complete pkg.	24Y907	Cart mount, SS hopper, no filter, complete pkg.	24Y911	Wall mount, no filter, complete pkg.
24Y904	Cart mount, no filter, bare pkg.	24Y908	Cart mount, SS hopper, no filter, bare pkg.	24Y912	Wall mount, no filter, bare pkg.

## Ex35 Series – 3500 psi (240 bar, 24.0 MPa) Complete packages include: XTR-5 spray gun with 519 tip; 3/8 in x 50 ft (15.2 m) Xtreme-Duty™ hose; 6 ft (1.8 m) whip hose.

24Z901	Cart mount, integrated filter, complete pkg.	24Z905	Cart mount, SS hopper, integrated filter, complete pkg.	24Z909	Wall mount, integrated filter, complete pkg.
24Z902	Cart mount, integrated filter, bare pkg.	24Z906	Cart mount, SS hopper, integrated filter, bare pkg.	24Z910	Wall mount, integrated filter, bare pkg.
24Z903	Cart mount, no filter, complete pkg.	24Z907	Cart mount, SS hopper, no filter, complete pkg.	24Z911	Wall mount, no filter, complete pkg.
24Z904	Cart mount, no filter, bare pkg.	24Z908	Cart mount, SS hopper, no filter, bare pkg.	24Z912	Wall mount, no filter, bare pkg.

## Ex Series Accessories

24Z267	Cable assembly, with 1 gland 8 m, hazardous locations*	24Z271	Cable assembly, with 2 glands 8 m, hazardous locations**	24Z273	Cable assembly, with 2 glands 30 m, hazardous locations**
24Z268	Cable assembly, with 1 gland 15 m, hazardous locations*	24Z272	Cable assembly, with 2 glands 15 m, hazardous locations**	121171	Cable insert for non-hazardous locations only, no cable
24Z269	Cable assembly, with 1 gland 30 m, hazardous locations*				

\*1-gland cables have a single gland rated for hazardous locations. Recommended when the power supply is outside the hazardous location.

\*\*2-gland cables are rated at both ends, allowing for connection in a hazardous location rated power supply, within the hazardous location.

## Z Series Sprayers

25P245	Z60 - Includes Heavy Duty Cart, 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR704 gun, XHD519 tip	24X451	Z45 - Bare unit on cart. No hose, no gun
25P246	Z60 - Includes Light Duty Cart, 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR704 gun, XHD519 tip	24W316	Z25 - Bare unit on cart. No hose, no gun
24X450	Z45 - Includes 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR510 gun	24Y452	Z45 - Includes 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR510 gun, side outlet.*
24W315	Z25 - Includes 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR510 gun, XHD651 tip	24Y317	Z25 - Includes 3/8 in x 50 ft (15 m) fluid hose, 1/4 in x 6 ft (1.8 m) whip, XTR510 gun, XHD651 tip, side outlet.*

Lower rotated for Graco or OEM hopper kit.

## Z Series Accessories

17B291	Jiffy Mixer blade	XTR510	Gun, XTR-5, 4 Finger Trigger, XHD529, no filter
24V083	SST hopper kit, includes hopper, connection kit and bracket	246294	10 in (254 mm) gun extension, 7250 psi (500 bar, 50 MPa)
245176	Suction kit	246295	15 in (380 mm) gun extension, 7250 psi (500 bar, 50 MPa)
191635	Suction tube strainer	246296	18 in (457 mm) gun extension, 7250 psi (500 bar, 50 MPa)
XHD529	Tip, spray, cylinder (529). Included with sprayers with hose/gun	XHD001	Graco XHD Guard for pressures up to 7250 psi (500 bar, 50 MPa)
248837	Kit repair, XTR-5 Gun	XHD___	Throat Seal Liquid (TSL)

## ► Merkur® X48 and X72 Series

Merkur X48 and X72 single component airless sprayers offer the ultimate combination of power and portability, giving you the ability to spray tough materials in the most challenging situations. Weighing just 99 pounds (45 kg), the Merkur Sprayer can easily be positioned in tight areas, without sacrificing spray quality or power.

### *High Pressure*

- With up to 7200 psi (500 bar, 50 MPa)
- Sprays high solids coatings
- Supports longer hose runs

### *Easy to Maintain*

- Easy to disassemble pump from air motor

### *Merkur Pump Lower*

- Improved handling of high viscosity coatings
- Long-lasting Chromex™ coated rod

### *Inlet*

- Smooth 1-1/4 in inlet reduces “dead spots” and coating buildup

### *Lightweight and Portable*

- Weighs only 99 lb (45 kg)

### *Throat and Piston Packings*

- Self-adjusting and spring loaded to maintain packing life

### *Pressure Bleed Valve*

- Floating ball design – zero cavity
- Reduces clogging and leaking

### *Quick Knock-Off Suction Hose*

- Large 1 in x 6 ft (25 mm x 1.8 m) suction hose



# ► Which Merkur is Right For You?

PRODUCT SPECIFICATIONS		Merkur X48	Merkur X72
	Maximum Fluid Working Pressure	4800 psi (330 bar, 33 MPa)	7200 psi (500 bar, 50 MPa)
	Recommended Tip Size	Up to 0.025	Up to 0.021
	Fluid Flow at 60 Cycles/min	1.2 gpm (4.5 lpm)	0.8 gpm (3.0 lpm)
	Pump Weight	99 lb (45 kg)	99 lb (45 kg)

\* Varies by coating and duty cycle

For more information on Parts & Accessories for High Pressure Protective Coatings Equipment, see brochure 349329.

## Merkur Sprayers

16V174	Merkur X72 bare unit	16V175	Merkur X48 bare unit	16U920	Merkur X48 complete package
16U918	Merkur X72 complete package				

Complete package includes XTR gun with 519 tip and 3/8 in x 25 ft (7.6 m) hose, 6 ft (1.8 m) whip

## Merkur Accessories

16U924	Repair kit, X72 fluid section	224459	60 mesh fluid filter kit, 2-pack	106149	Air line filter kit, 1/2 in npt (fbe), 20 micron (requires fittings)
16U925	Repair kit, X48 fluid section	224468	100 mesh fluid filter kit, 2-pack	24A576	Optional DataTrak™ kit
16V583	Fluid filter kit, 7250 psi (500 bar). Includes 60 mesh filter element.				

For more information on Parts & Accessories for High Pressure Protective Coatings Equipment, see brochure 349329.



## GRACO HEADQUARTERS

### WORLDWIDE HEADQUARTERS

Graco Inc.  
88 -11th Avenue N.E.  
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Tel: 612-623-6000



# Graco Has You Covered

### Facilities Worldwide for Global Support



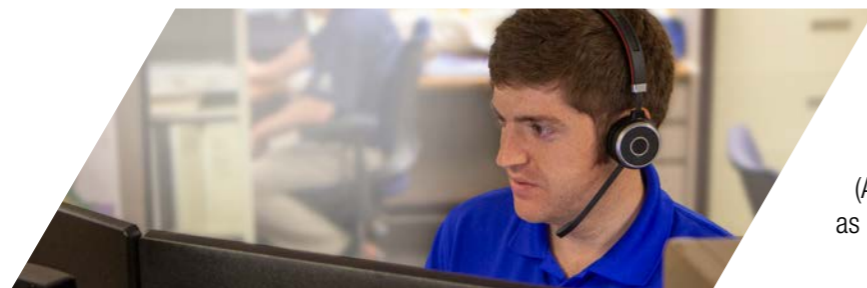
### Commitment to Quality Since 1926

When you choose Graco, you're investing in high-quality products built to last for years of reliable service. Moreover, we partner with our customers to better understand how you're deploying our products in the field, then use your experiences to improve performance and durability. Our goal is to exceed your quality expectations for equipment longevity, reliability and performance every day.



### Local Distribution and Support

Graco partners with authorized distributors across the globe to provide you with local sales and service support, application expertise and availability of inventory. Graco's has dedicated field experts in all areas of the world to support the products we sell so you can be assured of getting the answers you need when you need them.



### Customer Service You Can Count On

No matter where your team is in the world, we strive to provide the best customer service in the industry. We call it Graco's A+ Service. Graco's A+ Service philosophy is our promise to only deliver top-shelf (A+) service to every customer, every time. We'll listen to the situation and work to resolve it as quickly as we can.

**Contact us today!**

Call **866-361-5959** to talk with a Graco representative, or visit [www.graco.com](http://www.graco.com) for more information.

