XP70 Plural-Component Sprayer
Easy-to-Use High-Pressure Sprayer for Industrial Coatings
Graco® XP70 Plural-Component Sprayer

Easy and affordable two-component spraying

The trend for the coatings industry is toward high solids coatings. Formulated with less solvent, these coatings reduce VOC emissions and speed production with faster cure times.

The Graco XP70 Plural-Component Sprayer is designed to pump, mix and atomize high-viscosity, materials with superior results.

The spray system handles:

- Environmentally-friendly high solids coatings, with little or no solvent
- Hybrid polyurethanes
- Epoxies
- Very high solids coatings – up to 100% solids content
- Materials requiring heat (requires optional heaters)
- Fast-curing materials

If you spray several different materials each week, the XP70 is the right choice. That’s because you can change the ratio by simply changing out one or two pump lowers. Six fixed mix ratios are available: 1:1, 1.5:1, 2:1, 2.5:1, 3:1 and 4:1.

On-ratio spraying means peace of mind

With an optional XP Pressure Monitor Kit, you have the assurance that your Graco XP70 is spraying on-ratio. It monitors the spray pressures on the “A” and “B” sides, and shuts down the sprayer if conditions occur such as running out of material, pump cavitation, packing failures, leaks in valves or fittings, or plugged filters.

Benefits:
- Better overall productivity – projects done on time
- Reduced labor and rework costs
- Confidence in end results and quality

Applications

- Tanks
- Railcars
- Refineries
- Pipes
- Secondary containment
- Marine/shipbuilding
- Wastewater treatment
- Bridges
- Wind towers
- Water towers
- Structural steel
- Roof coatings
A Smart Alternative to Hand-mixing

Engineered specifically for two-component coatings

The Graco XP70 Plural-Component Sprayer provides the high-pressure performance you need to spray high-viscosity, high-solids coatings. In addition, the unit is designed to maximize gravity feed, which may eliminate the need for feed pumps, saving you money.

**Mix manifold**
- Provides simple fluid control for mixing or flushing
- Accurately dispenses A and B fluids to the static mix tube
- Handles high-solids coatings with large ports and low pressure drop
- Choose to use mix manifold remotely to reduce solvent and material waste

**Outlet manifold and valves**
- Fluid pressure gauges to monitor pump output
- Provides automatic overpressure relief
- Includes circulation back to the supply for pump priming, purging, or relieving outlet pressure
- Allows fluid warm-up circulation when optional heaters are used

**NXT® Air Motor**
- Standard anti-icing feature means production won’t stop due to motor icing
- Modular design for easier maintenance
- Rugged body armor won’t rust or dent

**High-pressure to handle high-viscosity coatings**
- Rated for 7250 psi (500 bar, 50 MPa) to handle viscous materials and long hose lengths

**Compact cart-mounted**
- Designed for easy handling by one person
- Can be floor mounted after removing wheels
- Easy mounting of optional flush pump and heaters

**Material hoppers**
- Side-mounted 7-gal (26 liter) hoppers hold A and B components until it’s time to spray
- Made of rugged polyethylene — unaffected by harsh solvents
- Optimized for direct pump feed

**Xtreme® Pump lowers**
- Standard Severe Duty coating on rods and cylinder maximizes wear life
- Quick knockdown design and throat seal cartridges provide fast and easy maintenance
- Six sizes available to provide various fixed mix ratios
- Easily change one or both lowers to get desired mix ratio (see pg. 5)

Visit www.graco.com/xp70 and upgrade from hand-mixing today!
Quick return on your investment

You’ll discover that the Graco XP70 Plural-Component Sprayer pays for itself when you switch from hand-mixing. Here’s how:

Reduces material costs
With the Graco XP70, you eliminate waste and save money because you only mix as much material as you need. No more throwing away unused material at the end of the day. No more residue left over in smaller pails or cans. You can buy material in bulk as well.

Saves money by using less clean-up solvent
Only the parts that come in contact with mixed material must be cleaned. Instead of flushing out an entire pump system that contains mixed material, you only need to flush the static mix tube and hose to the gun. Reduced cleaning time means you save labor costs and increase uptime.

Provides consistent material quality
No more guesswork or human error in measuring means you can improve throughput, cut back on material waste, and reduce rework. Materials are proportioned by precision positive displacement pumps and mixed accurately and on-ratio at the mix manifold.

Easy to operate
With proper training, operators are up and running quickly. The Graco XP70 runs right out of the box with low set-up time. Accessory kits can be added for heat and solvent flush.

Reduces maintenance costs
Engineered to proportion with two pumps instead of three, the Graco XP70 reduces cost of ownership because you only need to rebuild two pumps.
Typical pay back in less than 12 months

Compare XP70 to hand-mixing and see how much you’ll save. XP70 provides a substantial return on investment compared to hand mixing because you throw away less mixed material, and you use less solvent. Visit www.graco.com/xp70 to calculate an R.O.I for your application.

**MATERIAL SAVINGS** (by eliminating unused mixed material in pail)

<table>
<thead>
<tr>
<th></th>
<th>*EXAMPLE</th>
<th>ACTUAL</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average cost of coating per gallon</td>
<td>$40.00</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>Amount of wasted material per day</td>
<td>.75 gal</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Average cost of wasted coating per day</td>
<td>$30.00</td>
<td>C = AxB</td>
<td></td>
</tr>
<tr>
<td>TOTAL SAVINGS (assumes 200 work days per year)</td>
<td>$6,000.00</td>
<td>D = Cx200</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL SAVINGS** (by shortening mixed material hose length)

<table>
<thead>
<tr>
<th></th>
<th>*EXAMPLE</th>
<th>ACTUAL</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material volume in shortened hose (assumes 3/8-in hose x 50 ft = 1100 cc)</td>
<td>1100 cc</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Average cost of wasted coating per day (F = E/3785 cc/gal x A)</td>
<td>$11.62</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>TOTAL SAVINGS (assumes 200 work days per year)</td>
<td>$2,325.00</td>
<td>G = Fx200</td>
<td></td>
</tr>
</tbody>
</table>

**SOLVENT SAVINGS** (by eliminating potlife extender)

<table>
<thead>
<tr>
<th></th>
<th>*EXAMPLE</th>
<th>ACTUAL</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average cost of potlife extender per gallon</td>
<td>$15.00</td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>Amount of potlife extender used per day (assumes 0.5 gal solvent per 5 gal material)</td>
<td>4 gal</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Average cost of potlife extender used per day</td>
<td>$60.00</td>
<td>J = HxI</td>
<td></td>
</tr>
<tr>
<td>TOTAL SAVINGS (assumes 200 work days per year)</td>
<td>$12,000.00</td>
<td>K = Jx200</td>
<td></td>
</tr>
</tbody>
</table>

**SOLVENT SAVINGS** (by eliminating pump flushing)

<table>
<thead>
<tr>
<th></th>
<th>*EXAMPLE</th>
<th>ACTUAL</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average cost of solvent per gallon</td>
<td>$15.00</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>Material volume of pump, siphon hose, siphon tube (220 cc pump + 1320 cc from siphon hose and tube)</td>
<td>1540 cc</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>Amount of solvent used per day (N = M/3785 cc/gal x 3 flush factor x L)</td>
<td>$18.31</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>TOTAL SAVINGS (assumes 200 work days per year)</td>
<td>$3,662.00</td>
<td>O = Nx200</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL SAVINGS FROM XP70 WHEN COMPARED TO HAND-MIXING**

$23,987.00

P = D+G+K+O

*Example is based on spraying 40 gallons in an 8-hour shift. R.O.I. is an example only and should be reviewed for each application. Dollar savings are not guaranteed. Actual results may vary.

**XP Ratio Selection Guide**

<table>
<thead>
<tr>
<th>Mix Ratio by Volume</th>
<th>Pressure Ratio</th>
<th>Resin Pump</th>
<th>Hardener Pump</th>
<th>Combined Output cc’s/cycle</th>
<th>Max Air Setpoint psi (bar)</th>
<th>Max Fluid Pressure psi (bar)</th>
<th>Flow rate at 40 cycles/min gpm (lpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td>76:1</td>
<td>Xtreme 85 (L085C0)</td>
<td>Xtreme 85 (L085C0)</td>
<td>173</td>
<td>95 (6.5)</td>
<td>7250 (500)</td>
<td>1.83 (6.92)</td>
</tr>
<tr>
<td>1.5:1</td>
<td>91:1</td>
<td>Xtreme 85 (L085C0)</td>
<td>Xtreme 58 (L058C0)</td>
<td>144</td>
<td>80 (5.5)</td>
<td>7250 (500)</td>
<td>1.52 (5.76)</td>
</tr>
<tr>
<td>2:1</td>
<td>76:1</td>
<td>Xtreme 115 (L115C0)</td>
<td>Xtreme 58 (L058C0)</td>
<td>174</td>
<td>95 (6.5)</td>
<td>7250 (500)</td>
<td>1.84 (6.96)</td>
</tr>
<tr>
<td>2.5:1</td>
<td>65:1</td>
<td>Xtreme 145 (L14AC0)</td>
<td>Xtreme 58 (L058C0)</td>
<td>203</td>
<td>100 (6.9)</td>
<td>6500 (448)</td>
<td>2.14 (8.12)</td>
</tr>
<tr>
<td>3:1</td>
<td>68:1</td>
<td>Xtreme 145 (L14AC0)</td>
<td>Xtreme 48 (L048C0)</td>
<td>193</td>
<td>100 (6.9)</td>
<td>6800 (469)</td>
<td>2.04 (7.72)</td>
</tr>
<tr>
<td>4:1</td>
<td>73:1</td>
<td>Xtreme 145 (L14AC0)</td>
<td>Xtreme 36 (L036C0)</td>
<td>181</td>
<td>100 (6.9)</td>
<td>7250 (500)</td>
<td>1.91 (7.24)</td>
</tr>
</tbody>
</table>

Try the ROI calculator at www.graco.com/xp70
Technical Specifications

Fluid filtration
- XP pump outlets ........................................... 30 mesh
- XTR™-7 Spray Gun ........................................ 60 mesh
- Air inlet filtration ........................................... 40 micron

Ambient temperature range
- Operating .................................................. 40°F to 130°F (4°C to 54°C)
- Storage ..................................................... 30°F to 160°F (-1°C to 71°C)
- Max fluid temperature ................................... 160°F (71°C)
- Environmental rating ...................................... Indoor/Outdoor
- Hazardous areas ........................................... Ex II 2 G
- Fluid viscosity range (gravity feed hoppers) ........... 200-20,000 cps (pourable)
- Higher viscosities with pump feed ............ Pump feed recommended for mix-at-the-gun applications to pre-compress fluids

Max air pressure supply to the machine ..................... 175 psi (12 bar, 1.2 MPa)
Sprayer air consumption (see performance charts in 3A0420) ....... 75 cfm at 100 psi inlet/gpm (0.56 cu meter/min at 7 bar/liter/min)

Dimensions
- Bare machine ........................................... 52 L x 60 H x 32 W in (132 x 152 x 81.6 cm)
- With 7 gal (26 l) hoppers ......................... 52 L x 60 H x 35 W in (132 x 152 x 89 cm)

Weight
- Bare system ................................................. 425 lb (192 kg)
- Full system .................................................. 575 lb (260 kg)
- Air inlet connection ........................................ 3/4 npsm (f) union in 3/4 npt (f) port
- Fluid pump inlets (for non-hopper models) ........... 1-1/4 npt (m)
- Fluid gauge manifold “A” and “B” outlets ........... 1/2 in npt (f)
- Fluid gauge manifold ..................................... 1/4 in npt (m)
- Fluid mix manifold inlets ............................... 3/8 in npt (m) ball valves
- Mix manifold material outlet ......................... 1/2 in npt (f)
- Static mix tube outlet ..................................... 3/8 in npt (m)
- Weight ....................................................... 425 lb (192 kg)

Wetted parts
- Hard parts .............................. Nickel or zinc plated carbon steels, stainless steels, carbide
- Soft parts ................................. PTFE, UHMWPE, nylon, acetal, solvent resistant o-rings

Mix manifold material outlet ......................... 1/2 in npt (f)
Static mix tube outlet ..................................... 3/8 in npt (m)

Sound pressure ........................................... 86 dBA at 100 psi (7 bar, 0.7 MPa)
Sound power ............................................... 98 dBA at 100 psi (7 bar, 0.7 MPa)
Operation and repair manual (English) .................. 3A0420

XP70 Options for Added Productivity

Merkur™ Solvent Flush Pump
- Quickly flushes mixed materials from hose and gun
- Provides enough pressure to push good paint out the mix hose with a spray pattern, resulting in less wasted material
- Mounts easily to slotted holes provided on XP cart
- Prime valve can be used to supply flush solvent for tip cleaning, or to flush a second hose and gun that have been removed from the tee in the mix line

Viscon™ Fluid Heaters
- Reduces coating viscosity so it can be sprayed at lower pressure
- Provides consistent spray temperature, resulting in consistent spray pattern and better thickness control
- Mounts easily to slotted holes on XP cart (requires heater mounting kit 262450)
- Available in standard or hazardous atmosphere design

Xtreme Pump Lowers
- Change one or both lowers for desired mix ratio (see page 5)
- XP uses specific Xtreme pump lowers with spring-loaded inlet valves, Tuff stack packings, 30 mesh filters, and no prime valves
- Overpressure rupture protection included on 36 cc, 48 cc and 58 cc sizes
- Six sizes available to provide fixed mix ratios: 1:1, 1.5:1, 2:1, 2.5:1, 3:1, and 4:1

Remote Mount Mix Manifold
- Mix manifold on cart is removable and can be located closer to the spray gun to reduce mixed coatings and the volume of flush solvent required - results in less wasted materials
- A and B hoses from the XP cart to the mix manifold don’t need to be flushed and can be sized for less pressure loss over long runs
- Great for materials with very short pot life
- Use carriage 262522 to protect mix manifold and valves
Sprayers - All cart-mounted pump packages include material hoses and XTR-7 gun, and use an NXT 6500 Air Motor (N650D):

| 1:1 Bare Proportioner, no cart, guns, hoses or manifolds | 2:1 Cart-mounted sprayer without hoppers |
| 1:1 Bare Proportioner, no cart, guns, hoses or manifolds | 2:1 Cart-mounted sprayer with hoppers |
| 1.5:1 Bare Proportioner, no cart, guns, hoses or manifolds | 3:1 Bare Proportioner, no cart, guns, hoses or manifolds |

Pump Lowers - All Xtreme XP pump lowers include built-in filter and Tuff-Stack™ (carbon filled PTFE packings):

| Xtreme XP 36 lower (repair kit - 262504) | Xtreme XP 48 lower (repair kit - 262505) |
| Xtreme XP 58 lower (repair kit - 262506) | Xtreme XP 115 lower (repair kit - 262510) |

Water Jacketed Heated Hoses - (Approved for explosive atmospheres) 50 ft (15.2 m) sections:

| Heated hose kit (includes diaphragm pump, fittings, tubes, mounting bracket and reservoir tank, Actual hose assembly and heater must be ordered separately) Ref. manual 309505. | Dual hose bundles, 1/2 in & 1/2 in (12.7 mm) 7250 psi (500 bar, 50 MPa) |
| Dual hose bundles, 3/8 in & 3/8 in (9.5 mm) 7250 psi (500 bar, 35.4 MPa) | Dual hose bundles, 3/8 in & 3/8 in (9.5 mm) 7250 psi (500 bar, 35.4 MPa) |
| Dual hose bundles, 1/2 in & 3/8 in (12.7 mm x 9.5 mm) 7250 psi (500 bar, 35.4 MPa) | Dual hose bundles, 1/2 in & 3/8 in (9.5 mm x 3.8 mm) 7250 psi (500 bar, 35.4 MPa) |
| Dual hose bundles, 1/2 in & 3/8 in (12.7 mm x 9.5 mm) 7250 psi (500 bar, 35.4 MPa) | Dual hose bundles, 1/4 in & 3/8 in (6.3 mm x 9.5 mm) 7250 psi (500 bar, 35.4 MPa) |

Xtreme-Duty™ 7250 psi High-Pressure Hoses:

| 3 ft (0.9 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | 10 ft (3.0 m), 3/8 in (9.5 mm, 7250 psi (500 bar, 3/8 in female NPSM) |
| 6 ft (1.8 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | 25 ft (7.6 m), 3/8 in (9.5 mm, 7250 psi (500 bar, 3/8 in female NPSM) |
| 10 ft (3.0 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | 50 ft (15.2 m), 3/8 in (9.5 mm, 7250 psi (500 bar, 3/8 in female NPSM) |
| 25 ft (7.6 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | 50 ft (15.2 m), 1/4 in (6.3 mm, 7250 psi (500 bar, 1/4 in female NPSM) |
| 50 ft (15.2 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | 50 ft (15.2 m), 1/4 in (6.3 mm, 7250 psi (500 bar, 1/4 in female NPSM) |

Temperature Controlling Equipment:

| Heater mounting kit. Includes hose and fittings to mount one heater on the XP cart. Two heaters can be mounted on an XP cart. | Agitator Kit |

| 2T 2:1 drum pump with 3/4 x 10 ft (3.0 m) fluid hose, air regulator kit, air hose, fluid strainer, ball valve and pump union | 3A8824 Twistork* with air connection to work with feed pump kits (reference manual 310863) |
| Monar* 5:1, drum pump with 3/4 x 10 ft (3.0 m) fluid hose, air regulator kit, air hose, fluid strainer, ball valve and pump union | 262393 Solvent Flush Kit |

| 25 ft (7.6 m), 1/4 in (6.3 mm), 7250 psi (500 bar, 1/4 in female NPSM) | Merkur 45:1. Mounts to XP cart. Includes air controls, pail siphon, prime valve and 3 ft (0.9 m) hose to mix manifold (reference manual 310863) |

Temperature Controlling Equipment:

| 262450 Heater mounting kit. Includes hose and fittings to mount one heater on the XP cart. Two heaters can be mounted on an XP cart. | Not approved for explosive atmospheres |

Viscon Fluid Heaters - Approved for explosive atmospheres:

| Hazardous location, 120 VAC single phase, 2300 watts, 19.2 amps | 245867 Non-hazardous location, 120 VAC single phase, 2300 watts, 19.2 amps |
| Hazardous location, 200 VAC single phase, 4000 watts, 20 amps | 245868 Non-hazardous location, 200 VAC single phase, 4000 watts, 20 amps |
| Hazardous location, 240 VAC single phase, 4000 watts, 16.7 amps | 245869 Non-hazardous location, 240 VAC single phase, 4000 watts, 16.7 amps |
| Hazardous location, 380 VAC single phase, 4000 watts, 10.5 amps | 246276 Non-hazardous location, 380 VAC single phase, 4000 watts, 10.5 amps |
| Hazardous location, 480 VAC single phase, 4000 watts, 8.3 amps | 245870 Non-hazardous location, 480 VAC single phase, 4000 watts, 8.3 amps |

Band Heaters - Not approved for explosive atmospheres:

| 15F028 Heater, drum, 10000 watts, 230V | Band Heaters - Not approved for explosive atmospheres |

Accessories:

| Remote Mix Manifold | Agitator Kit |
| Mix manifold, no carriage | 248824 Twistork* with air connection to work with feed pump kits (reference manual 310863) |
| Carriage only - no mix manifold | 262393 Solvent Flush Kit |

Static Mixing, 7250 psi (500 bar, 50 MPa):

| 25 pack, disposable, 1/2 in (12 mm), 12 element | Non-hazardous location, 120 VAC single phase, 2300 watts, 19.2 amps |
| Static mix housing, 1/2 in x 5 in (12 mm x 127 mm) | Non-hazardous location, 200 VAC single phase, 4000 watts, 20 amps |
| Static mixer, SST, 3/8 in x 9.5 in (8.5 mm x 241 mm) | Non-hazardous location, 240 VAC single phase, 4000 watts, 16.7 amps |

Spray Guns, 7250 psi (500 bar, 50 MPa):

| XTR700 XTR-7, round handle, four-finger trigger, no tip | Desiccant dryer kit. Bulkhead fitting and 2-pack of cartridges for one hopper |
| XTR701 XTR-7, round handle, four-finger trigger, flat tip | 119974 Replacement 2-pack of desiccant cartridges |
| XTR702 XTR-7, oval insulated handle, four-finger trigger, HD RAC tip | XP Pressure Monitor Kit (see manual 3A1331) |
| XTR703 XTR-7, oval insulated handle, two-finger trigger, HD RAC tip | 262940 Pressure monitor kit, wall powered with light tower |
| XTR704 XTR-7, round handle, four-finger trigger, HD RAC tip | 262942 Pressure monitor kit, air powered with light tower |
| XTR705 XTR-7, round handle, two-finger trigger, HD RAC tip | Miscellaneous |

Miscellaneous:

| 234026 Gun splitter manifold. Allows two spray guns to be individually selected and/or flushed | 24F376 Blue for resin side (7-gallon hopper kits with bracket and hardware to mount on an XP cart) |
| 24F377 Green for hardener side (7-gallon hopper kits with bracket and hardware to mount on an XP cart) | 262454 Desiccant dryer kit. Bulkhead fitting and 2-pack of cartridges for one hopper |
| DataTrak™ conversion kit. Can be added to the NXT 6500 Air Motor for totalizer and flow rate data, and to provide runaway protection. | 119974 Replacement 2-pack of desiccant cartridges |
| Approved for hazardous atmospheres | XP Pressure Monitor Kit (see manual 3A1331) |
| 24F375 Ratio sampling value kit; includes 1 valve (see manual 3A0421 for details) | 262940 Pressure monitor kit, wall powered with light tower |
| 262942 Pressure monitor kit, air powered with light tower | 262942 Pressure monitor kit, air powered with light tower |

Ordering Information:

For more high-pressure airless accessories, see High-Pressure Accessories brochure (339361)
ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco’s ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

GRACO LOCATIONS

MAILING ADDRESS
P.O. Box 1441
Minneapolis, MN 55440-1441
Tel: 612-623-6000
Fax: 612-623-6777

ASIA PACIFIC
AUSTRALIA
Graco Australia Pty Ltd.
Suite 17, 2 Enterprise Drive
Bundoora, Victoria 3083
Australia
Tel: 61 3 9468 8500
Fax: 61 3 9468 8599

CHINA
Graco Hong Kong Ltd.
Shanghai Representative Office
Room 118 1st Floor
No.2 Xin Yuan Building
No.509 Cao Bao Road
Shanghai, 200233
The People’s Republic of China
Tel: 86 21 649 50088
Fax: 86 21 649 50077

INDIA
Graco Hong Kong Ltd.
India Liaison Office
Room 443, Augusta Point
Regus Business Centre 53
Golf Course Road
Gurgaon, Haryana
India 122001
Tel: 91 124 435 4208
Fax: 91 124 435 4001

JAPAN
Graco K.K.
1-27-12 Hayabuchi
Tsuzuki-ku
Yokohama City, Japan 2240025
Tel: 81 45 593 7300
Fax: 81 45 593 7301

KOREA
Graco Korea Inc.
Shinhan Bank Building
4th Floor #1599
Gwanyang-Dong, Dongan-Ku,
Anyang-si, Korea 431-060
Tel: 82 31 476 9400
Fax: 82 31 476 9801

AMERICAS
MINNESOTA
Worldwide Headquarters
Graco Inc.
88-11th Avenue N.E.
Minneapolis, MN 55413

EUROPE
BELGIUM
European Headquarters
Graco N.V.
Industrieterrein-Oude Bunders
Slakkewieldstraat 31
3830 Maasmechelen,
Belgium
Tel: 32 89 770 700
Fax: 32 89 770 777

Call today for product information or to request a demonstration.

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