

HVLP *EDGE II*[™] / *EDGE II Plus* Gun 3A4980B

EN

For the application of architectural paints and coatings. The HVLP Edge II Gun is not intended to be used on an external compressor. For professional use only.

Models: 17P481, 17P483, 17P484, 17P653, 17P654

10 psi (0.07 MPa, 0.7 bar) Maximum Air Working Pressure
50 psi (0.35 MPa, 3.5 bar) Maximum Fluid Working Pressure

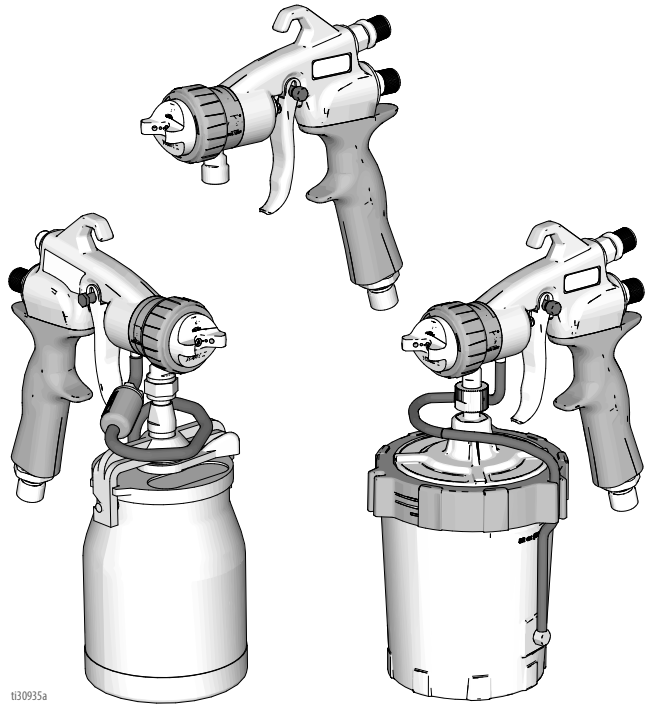


Important Safety Instructions

Read all warnings and instructions in this manual and your sprayer instruction manual. Be familiar with the controls and the proper usage of the equipment. Save these instructions.

Related Manuals:

3A4967	Graco FinishPro HVLP Sprayer
--------	------------------------------



t330935a



www.graco.com/techsupport

Troubleshooting

Troubleshooting



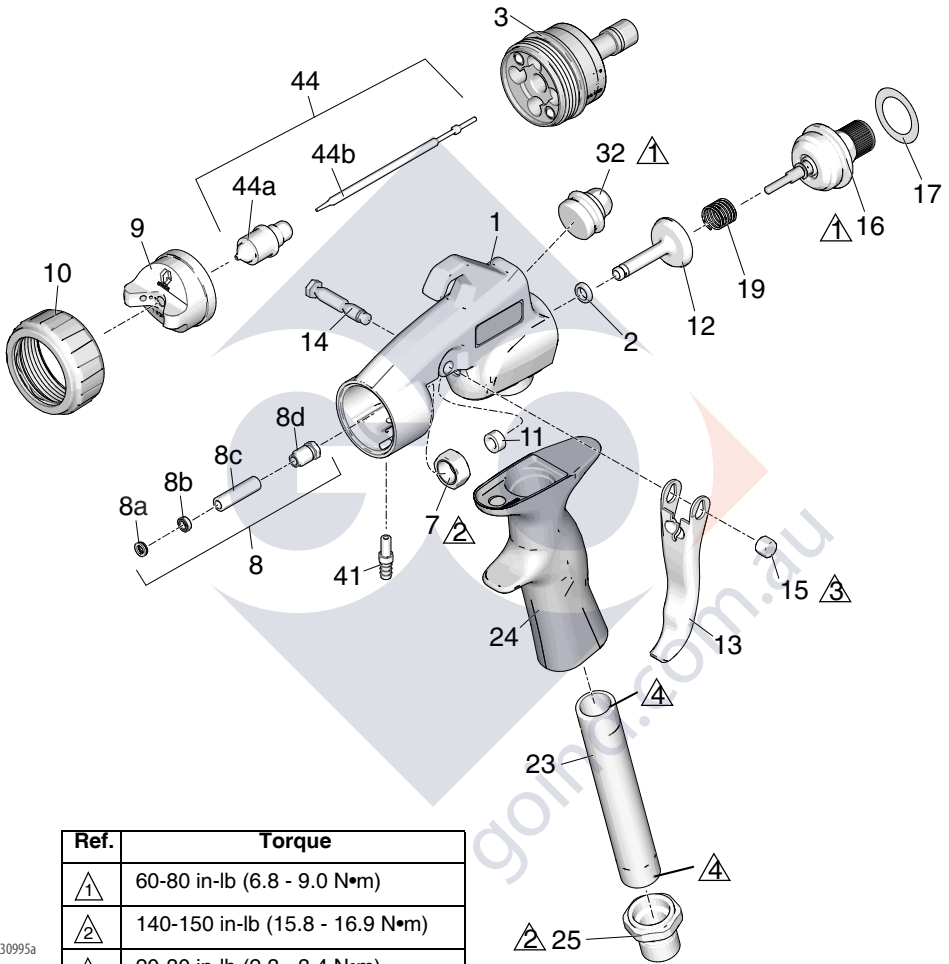
Problem	Cause	Solution
Orange peel finish - Paint surface not smooth	Paint droplets too large	<ul style="list-style-type: none"> • Adjust fluid control knob on gun to reduce fluid. • Spray further from work piece. • Keep turbine air filters clean to allow full air flow. • Do not use an air hose that is too long to provide sufficient atomization pressure.
	Paint droplets drying too fast to properly flow out of gun	Keep object being sprayed out of direct sunlight. When spraying in warmer temperatures, use a slower evaporating solvent or a reducer.
	Cold weather spraying	Keep fluid and object being sprayed as close to room temperature as possible. When spraying on a cold surface, most paints will become too thick to flow properly.
Blushing - clear coatings appear milky	Moisture condensation is trapped in lacquer when spraying in hot, humid conditions	<ul style="list-style-type: none"> • Allow turbine to warm up a few minutes before spraying. • Store lacquer off concrete floors, at room temperature. • Apply lighter coats and allow for proper drying time. • Use a slower evaporating solvent or reducer. • Do not spray in windy conditions.
Fish eyes - small pools on painted surface that will not fill	Silicone contamination from lubricants, grease, polish, or waxes on the surface being sprayed	Clean all parts with a cleaning solvent; wipe with a solvent rag and a clean rag. Replace rags as needed. If problem persists, use a fish eye eliminator.
Runs and sags	Applying too much paint per pass for the drying conditions	<ul style="list-style-type: none"> • Move gun faster or decrease fluid flow. • Spray further from work piece. • Reduce amount of thinner or use a faster drying thinner.

Problem	Cause	Solution	
Solvent pops or bubbles	Sprayed surface drying before solvent gas can be released	<ul style="list-style-type: none"> • Apply fluid in lighter coats to allow for proper evaporation. • Use the recommended thinners. • Follow the solutions for Orange Peel Finish, Paint Droplets Too Large in this Troubleshooting Table. 	
No or slow fluid flow, intermittent spray, or fluttering spray	No material	Check cup for material, see Startup , page 12.	
	Trigger pin in UNLOCK position	Check trigger pin location. Must be in SPRAY position.	
	Wrong size fluid set being used	Select proper fluid set for fluid being sprayed. Reference Fluid Set Selection , page 9.	
	Gun fluid nozzle blocked by dried paint or damaged	Clean or replace fluid nozzle	
	No cup pressurization		Tighten cover or replace gasket (siphon cup only)
			Check for leaks in FlexLiner System. See "FlexLiner System" section, page 27.
	Cup fitting or siphon tube (in siphon cup) blocked by dried paint or is damaged		Clean cup fitting, material strainer and siphon tube (if applicable)
			Check for obstructions in gun tubing. Clean or replace gun tubing if necessary.
	Air flow to cup blocked	Siphon cup: Remove cup (leave cover connected). Trigger gun and check air flow out of check valve. If air is not flowing freely, clean or replace check valve.	
	Fluid in the check valve (siphon cup only)	Clean check valve. Reference Cleaning Quick Clean Check Valve (Siphon Cup only) , page 22.	
Plugged material strainer	Replace material strainer if plugged or remove if material is highly viscous.		
Needle packings not properly adjusted. Note: Fluid loss through packings affects fluid pressure and causes a fluid leak from gun body.	Clean gun body with solvent and brush provided. Adjust needle packing.		
Fluid leaks at fluid nozzle after trigger is released	Needle not seating in fluid nozzle	Check for a loose fluid nozzle or a bent nozzle or needle; tighten nozzle or replace parts as needed.	
	Packing nut is too tight	Loosen packing nut slowly until needle returns freely.	
Poor spray pattern	Air cap horn hole and/or fluid nozzle plugged	Soak air cap and/or fluid nozzle in solvent. Clean air cap horn holes with non-metallic item to avoid permanently damaging them.	

Troubleshooting

Problem	Cause	Solution
Fluid leaks at packing nut	Packing nut is loose	Tighten packing nut slightly and re-test. Repeat until packing seals completely.
Needle does not return after trigger is released or is slow to return	Packing nut is too tight	Loosen packing nut slowly until needle returns freely.
Sprayer does not automatically shut-off while in SmartStart setting (Graco Finish HVLP ProContractor and ProComp models only)	Leaking air hose connections	Verify air hose and attached components are those shipped with the sprayer.
		Disconnect air hoses. Verify o-ring is present inside connection fitting at turbine end of hose. If using a whip hose, verify gasket is present inside connection fitting. Securely connect all hose connections.
		Replace with Graco HVLP accessories, if necessary. See separate sprayer manual 3A4967.
	Gun leaking air	Verify use of Edge II Plus gun.
		If SmartStart functions when air valve at end of hose is closed, clean gun. See Cleaning HVLP Edge II Gun , page 22.
		Verify fluid valve is tight. See page 31 (ref. 16).
Replace fluid valve o-ring. See page 31 (ref. 18).		
	Replace air valve. See page 31 (ref. 12).	

Problem	Cause	Solution
FlexLiner System:		
FlexLiner does not collapse or collapses slowly	Dirty sealing surfaces	Remove ring, clean sealing surfaces, securely install ring. See Fill FlexLiner System , page 12.
	Incorrect or no air cap installed on gun	Verify Edge II air cap is installed.
	Air cap is loose	Edge II: Verify retaining ring is fully installed.
		Edge II Plus: Verify retaining ring is installed to a position that does not result in a loose air cap.
	Air Control/Artisan Valve (if installed) is set too low for desired application	Rotate control clockwise to increase air flow, until the desired flow is achieved.
	Gun tubing	Verify gun tubing is properly connected between the cup and gun.
		Verify gun tubing is not kinked.
Air leaking from cup	Damaged tubing. Remove damaged section of tubing. Replace tubing as necessary. See separate HVLP Edge II gun manual.	
	Damaged connection between cup and air fitting. Verify fitting is fully installed. If necessary, replace FlexLiner System. See separate HVLP Edge II gun manual.	
Fluid leaking between cup and ring	Cup filled too full	Verify cup is not filled above "MAX FILL" line.
	Dirty sealing surfaces	Remove ring, clean sealing surfaces, securely install ring. See Fill FlexLiner System , page 12.
Fluid leaking between cup and gun	Loose cup connection	Tighten connection. Use wrench as needed.
	Damaged o-ring on cup connection	Replace o-ring. Apply grease to o-ring to aid in assembly.
Fluid present at bottom of cup	FlexLiner not installed	Install FlexLiner.
	Damaged FlexLiner	Replace FlexLiner.
Pulsing spray pattern	Air not fully evacuated from FlexLiner System.	See step 7 of Startup , page 12.



Ref.	Torque
1	60-80 in-lb (6.8 - 9.0 N•m)
2	140-150 in-lb (15.8 - 16.9 N•m)
3	20-30 in-lb (2.3 - 3.4 N•m)
4	Apply adhesive, Ref. 50

t130995a

Parts List - EDGE II

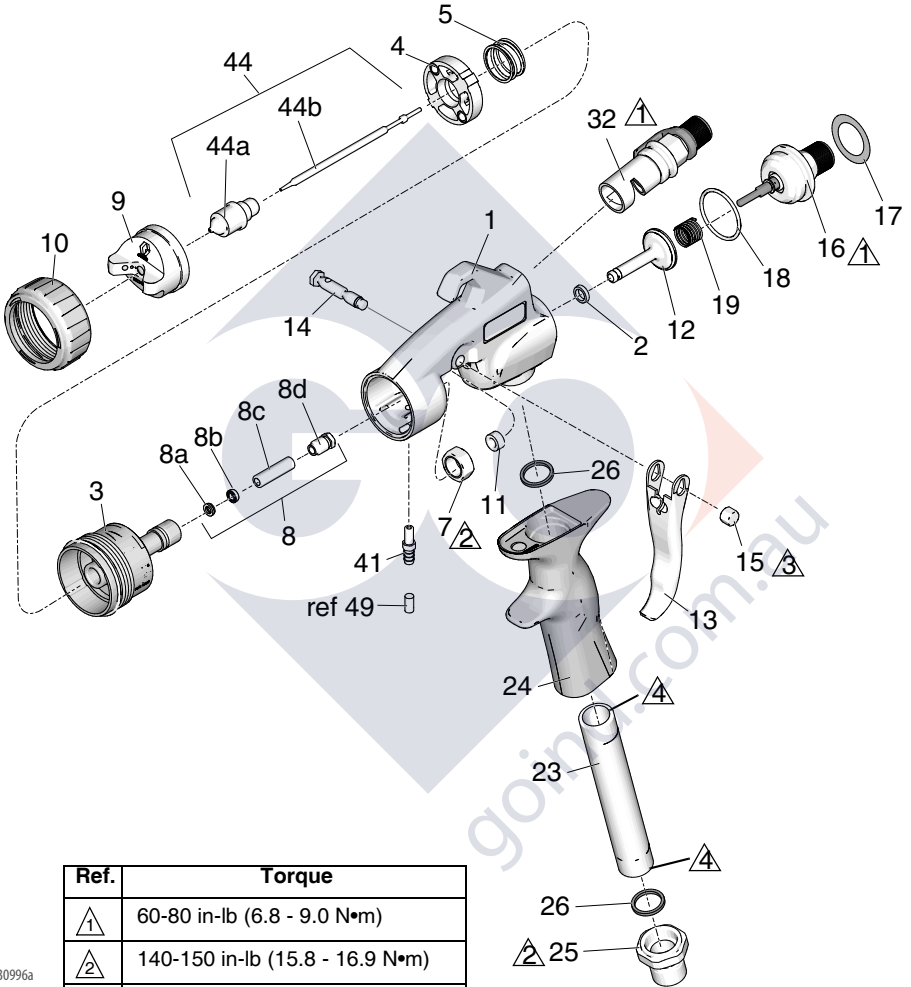
Ref Part	Description	Qty	Ref Part	Description	Qty
1	256858 BODY, gun	1	14	280545 PIN, slide, trigger, w/ball	1
2	188493 PACKING, u-cup, gun	1	15	15V848 NUT, slide, trigger, pin	1
3	17P715 HOUSING, nozzle	1	16	17S237 VALVE, fluid (includes 17)	1
7	192348 NUT, head	1	17	17S201 LABEL, fluid/air	1
8	256960 KIT, packing (includes 8a, 8b, 8c, 8d)	1	19	114069 SPRING, compression	1
8a	SPREADER, u-cup	1	23	196463 TUBE, handle	1
8b	PACKING, u-cup	1	24	277950 HANDLE, gun	1
8c	SPACER, packing	1	25	17R207 COUPLER, male	1
8d	NUT, head	1	32	15V844 HOUSING, plug, fluid	1
9	17P709 HOUSING, air, cap	1	41	M70394 STEM, air pressure	1
10	17P492 RING, retaining, cap, air	1	44	FLUID SET; See Fluid Set Selection Guide, page 9.	
11	15V856 NUT, valve	1	44a	NOZZLE, fluid	1
12	257087 VALVE, air (includes 2, 11)	1	44b	NEEDLE	1
13	15V846 TRIGGER	1	50	113500 ADHESIVE	

goind.com.au

Parts

Parts

EDGE II Plus



Ref.	Torque
1	60-80 in-lb (6.8 - 9.0 N•m)
2	140-150 in-lb (15.8 - 16.9 N•m)
3	20-30 in-lb (2.3 - 3.4 N•m)
4	Apply adhesive, Ref. 50

ti30996a

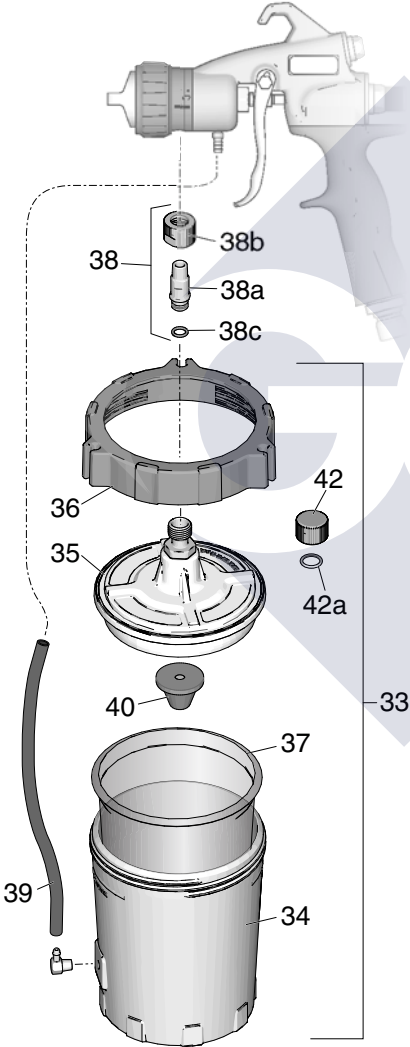
Parts List - EDGE II Plus

Ref Part	Description	Qty	Ref Part	Description	Qty
1	17H061 BODY, gun	1	15	15V848 NUT, slide, trigger, pin	1
2	188493 PACKING, u-cup, gun	1	16	17P718 VALVE, fluid (includes 17, 18)	1
3	17P716 HOUSING, nozzle	1	17	17S202 LABEL, fluid	1
4	17P563 GUIDE, air cap, assembly	1	18	110073 O-RING	1
5	17H063 SPRING, air cap	1	19	114069 SPRING, compression	1
7	192348 NUT, head	1	23	196463 TUBE, handle	1
8	256960 KIT, packing (includes 8a, 8b, 8c, 8d)	1	24	277950 HANDLE, gun	1
8a	SPREADER, u-cup	1	25	17R207 COUPLER, male	1
8b	PACKING, u-cup	1	26	17P879 GASKET, handle	2
8c	SPACER, packing	1	32	17S192 CONTROL, air	1
8d	NUT, head	1	41	M70394 STEM, air pressure	1
9	17P709 HOUSING, air, cap	1	44	FLUID SET; See Fluid Set Selection Guide, page 9.	
10	17P493 RING, retaining, cap, air	1	44a	NOZZLE, fluid	1
11	15V856 NUT, valve	1	44b	NEEDLE	1
12	17P717 VALVE, air (includes 2, 11)	1	49	257099 SCREW, set, sch (model 17P654)	1
13	15V846 TRIGGER	1	50	113500 ADHESIVE	
14	280545 PIN, slide, trigger, w/ball	1			

Parts

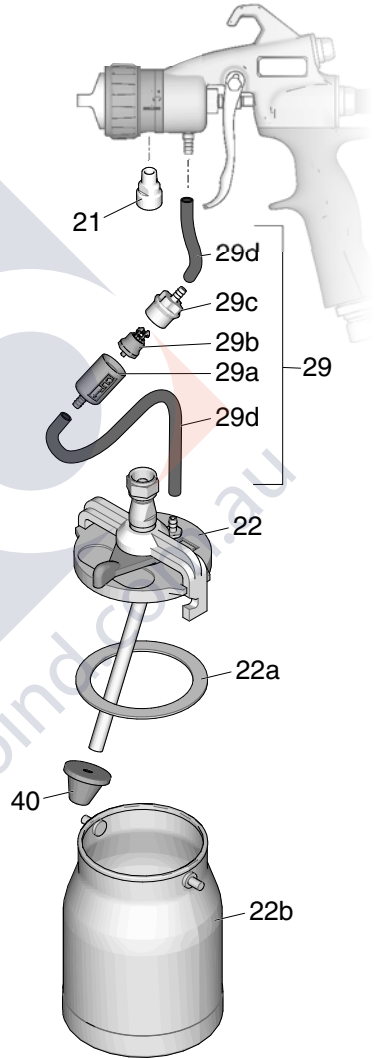
FlexLiner System & Siphon Cup Assembly

FLEXLINER SYSTEM



ti30998a

SIPHON CUP ASSEMBLY



Parts List

FlexLiner System

Ref Part	Description	Qty
33 17R462	KIT, FlexLiner System (includes 34, 35, 36, 37, 39, 40, 42)	1
34	CUP	1
35 17P222	COVER	1
36 17P237	RING	1
37	FlexLiner	1
17A226	3 pack	
17P212	25 pack	
38 17R799	KIT, adapter, FlexLiner (includes 38a, 38b, 38c, 41)	1
38a	FITTING, adapter	1
38b	NUT, adapter	1
38c 113137	PACKING, o-ring	1
39 17S108	TUBE, air, cup	1
40 193218	STRAINER	1
42 17S166	CAP (sold separately), includes 42a	1
42a 111507	ORING (sold separately)	1

Siphon Cup Assembly

Ref Part	Description	Qty
21 196468	FITTING, adapter	1
22 244130	CUP, 1qt, under (includes 22a, 22b, 29)	1
22a M70424	CUP, gasket	1
22b 244132	CUP, bottom	1
29 256957	CHECK VALVE, complete, includes 29a, 29b*, 29c, 29d	1
29a	FITTING, adapter	1
29b*	POPPET, check valve assembly	1
29c	FITTING, air	1
29d	TUBE, air, cup	2
40 193218	STRAINER	1

* Three-pack Check Valve Repair Kit 256956 is available

Technical Specifications

Technical Specifications

EDGE II / EDGE II Plus		
	US	Metric
Sprayer		
Maximum working air pressure	10 psi	0.07 MPa, 0.7 bar
Maximum working fluid pressure	50 psi	0.35 MPa, 3.5 bar
Air inlet	Quick - disconnect	
Fluid Inlet		
FlexLiner System	5/8-16 UN-2A	
Siphon/Remote Cup	3/8-18 npsm	
Weight		
Edge II / Edge II Plus (gun only)	20 oz.	570 g
FlexLiner System	15 oz.	425 g
Siphon Cup Assembly	17 oz.	480 g
Noise*		
Sound pressure	65.0 dBa	
Sound power	65.0 dBa	
Wetted Materials of Construction		
Edge II / Edge II Plus (gun only)	stainless steel, aluminum, ultra-high molecular weight polyethylene (UHMWPE), acetal, fluoroelastomer	
FlexLiner System	stainless steel, Grilamid, polyethylene, low-density polyethylene (LDPE)	
Siphon Cup	stainless steel, brass, zinc-plated carbon steel, aluminum, polyethylene	
Notes		
*Sound pressure measured 3 feet (1 meter) from equipment. Sound power measured per ISO-3744.		

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

FOR GRACO CANADA CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

Graco Information

For the latest information about Graco products, visit www.graco.com.

For patent information, see www.graco.com/patents.

TO PLACE AN ORDER, contact your Graco distributor or call 1-800-690-2894 to identify the nearest distributor.



All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3A4980

Graco Headquarters: Minneapolis
International Offices: Belgium, China, Japan, Korea

GRACO INC. AND SUBSIDIARIES • P.O. BOX 1441 • MINNEAPOLIS MN 55440-1441 • USA

Copyright 2014, Graco Inc. All Graco manufacturing locations are registered to ISO 9001.

www.graco.com
Revision B, September 2017