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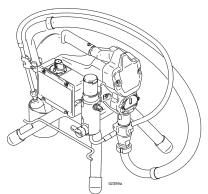
ΕN

Electric Airless Sprayers

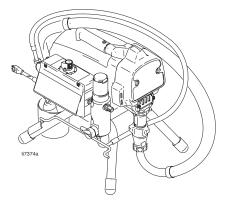
- For the application of architectural paints and coatings -

Important Safety Instructions. Read all warnings and instructions in this manual. Save these instructions.

3300 psi (227 bar, 22.7 MPa) Maximum Working Pressure



UltraTM 395/495/595 Ultimate NovaTM 395 Super NovaTM 495/595 ST MaxTM 395/495/595



UltraMax IITM 490/495/595 Ultimate MX IITM 490/495/595 ST Max IITM 490/495/595



PROVEN QUALITY. LEADING TECHNOLOGY.

Models

VAC	Model			0
	Ultra 395 Ultimate Nova 395	233960 826014	233961	233962
	Ultra 495 Super Nova 495	233966 826017	233967 826018	233968 826019
100	Ultra 595 Super Nova 595		234490 826052	234435 826046
120	Ultra Max II 490 Ultimate MX II 490	249911 825028	249913 825029	249914 825036
	Ultra Max II 495 Ultimate MX II 495	249915 825037	249916 825038	249917 825039
	Ultra Max II 595 Ultimate MX II 595		249918 825046	249919 825045
	ST Max 395 Hopper	233955		
	ST Max 395	234176	258662	
	ST Max 495	233956	233970	233971
000 055	ST Max 595		248661	244437
230 CEE	ST Max II 490 Hopper	253011		
	ST Max II 490	249926	253012	253013
	ST Max II 495	249928	253014	249978
	ST Max II 595		253015	249930
	ST Max 395	223963		
	ST Max 495	233957		233975
230	ST Max 595			244436
Europe	ST Max II 490	249927		
	ST Max II 495	249929		249979
	ST Max II 595			249931
	ST Max 395	223972		
	ST Max 495	233973		233975
	ST Max 595			244436
110 UK	ST Max II 490	249935		
	ST Max II 495	249936		249980
	ST Max II 595			249937
	Ultra 395	234180		
	Ultra 495	234183	234181	234182
230 Asia	Ultra 595		248660	244439
230 ASIa	Ultra Max II 490	249932		
	Ultra Max II 495	249933	253104	253105
	Ultra Max II 595		253107	249934
100	Ultra Max 495	234186	233974	
Japan	Ultra Max II 495	249938	253106	

Warnings

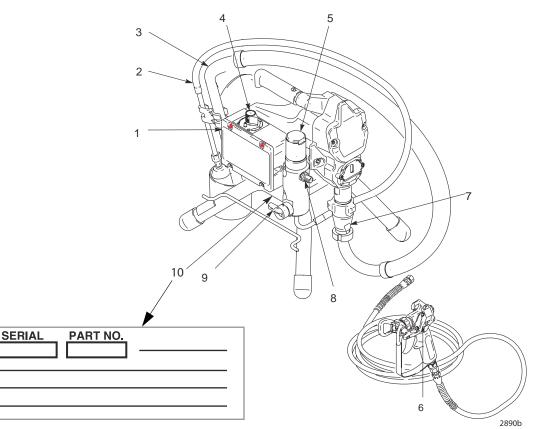
The following are general warnings related to the setup, use, grounding, maintenance and repair of this equipment. Additional, more sepcific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.

	WARNING
	 FIRE AND EXPLOSION HAZARD Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion: Use equipment only in well ventilated area. Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc). Sprayer generates sparks. When flammable liquid is used in or near the sprayer or for flushing or cleaning, keep sprayer at least 20 feet (6 m) away from explosive vapors. Keep work area free of debris, including solvent, rags and gasoline. Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. Ground equipment and conductive objects in work area. Read Grounding instructions. If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
Ý	 ELECTRIC SHOCK HAZARD Improper grounding, setup, or usage of the system can cause electric shock. Turn off and disconnect power cord before servicing equipment. Use only grounded electrical outlets. Use only 3-wire extension cords. Ensure ground prongs are intact on sprayer and extension cords. Do not expose to rain. Store indoors.
	 SKIN INJECTION HAZARD High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. Do not point gun at anyone or at any part of the body. Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body, glove, or rag. Engage trigger lock when not spraying. Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

Â	WARNING
	 EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. Read Technical Data in all equipment manuals. Use fluids and solvents that are compatible with equipment wetted parts. Read Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer. Check equipment daily. Repair or replace worn or damaged parts immediately with genuine Graco replacement parts only. Do not alter or modify equipment. Use equipment only for its intended purpose. Call your Graco distributor for information. Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not kink or overbend hoses or use hoses to pull equipment. Comply with all applicable safety regulations. Keep children and animals away from work area. Do not operate the unit when fatigued or under the influence of drugs or alcohol.
	PRESSURIZED ALUMINUM PARTS HAZARD Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.
*	 TOXIC FLUID OR FUMES HAZARD Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed. Read MSDS's to know the specific hazards of the fluids you are using. Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
	PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: • Protective eye wear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection
	CALIFORNIA PROPOSITION 65 The engine exhaust from this product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Component Identification

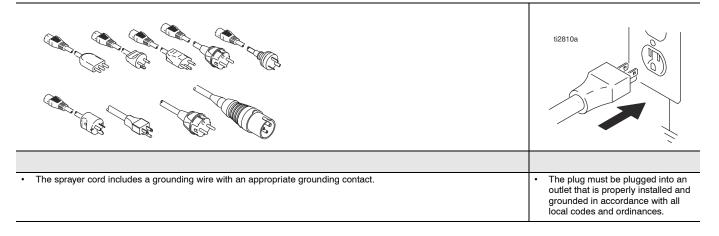
Model 233960 shown



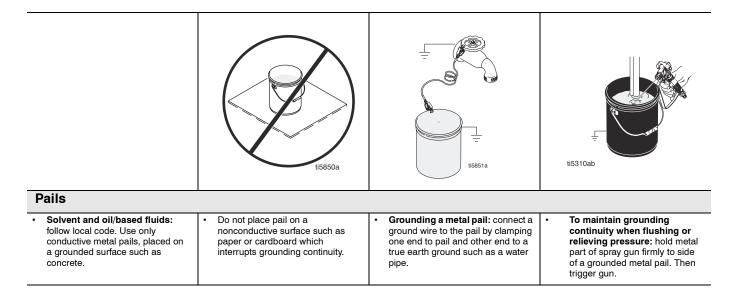
	English				
1	ON/OFF switch				
2	Drain tube				
3	Siphon tube				
4	Pressure control				
5	Filter				
6	Trigger lock				
7	Pump				
8	Fluid outlet				
9	Prime/Spray valve				
10	Service Tag (below sprayer frame)				

Grounding

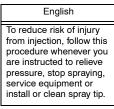
English	
The sprayer must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.	



H427a		Ground	
	Power Requirements	Extension Cords	
 Do not modify plug! If it will not fit in outlet, have grounded outlet installed by a qualified electrician. Do not use an adapter. 	 100-120V units require 100-120 VAC, 50/60 Hz, 15A, 1 phase. 230V units require 230 VAC, 50/60 HZ, 7.5A, 1 phase. 	 Use an extension cord with an undamaged ground contact. 	 If an extension cord is necessary, use a 3-wire, 12 AWG (2.5 mm²) minimum.



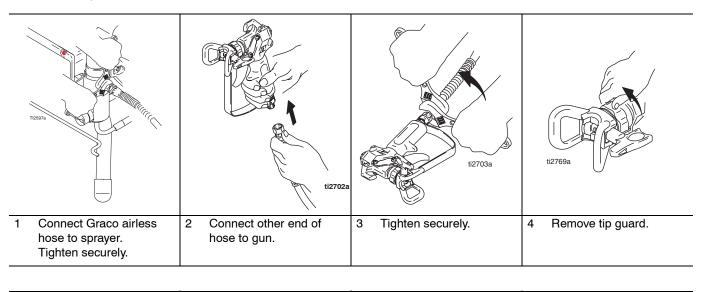
Pressure Relief Procedure



	WASTE	
1 Turn power OFF and unplug sprayer.	2 Turn pressure to lowest setting. Trigger gun to relieve pressure. Turn prime valve down.	If you suspect spray tip or hose is completely clogged, or that pressure has not been fully relieved after following these steps, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Now clear tip or hose obstruction.

Setup

Throughout these instructions, Model 233960 is shown in all illustrations. Your sprayer model may look slightly different than pictured.



	N28122	Approximate Fill Level	ti2707a	ti2810a
5	Check inlet strainer for clogs and debris.	6 Fill throat packing nut with TSL to prevent premature packing wear. Do this each time you spray.	7 Turn power OFF.	8 Plug power supply cord into a properly grounded electrical outlet.

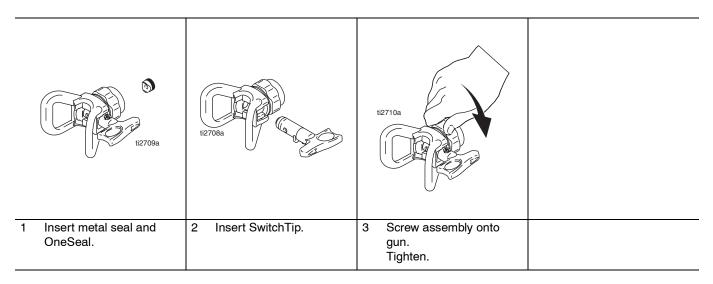
	ti2719a	WASTE H2756B FLUSH
9	Turn prime valve down.	10 Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to true earth ground. Do 1 5. of Startup , page 9 to flush out storage oil shipped in sprayer. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.

Startup

		1	ti2706a	A A			12712a
1	Turn pressure control to lowest pressure.	2	Turn power ON .	3	Increase pressure to start motor and allow fluid to circulate through drain tube for 15 seconds; then turn pressure down.	4	Turn prime valve horizontal.Take spray gun trigger safety OFF.

	12599a			ez714a PAINT	USTISA WASTE
5 Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure to 1/2. Flush 1 minute.		Inspect for leaks. Do not stop leaks with hand or a rag! If leaks occur, do Pressure Relief. Tighten fittings. Do Startup , 1 5, page 9. If no leaks, proceed to 6.	6 7		pail until paint appears. Move gun to onds. Set gun safety ON. Assemble

Tip and Guard Assembly



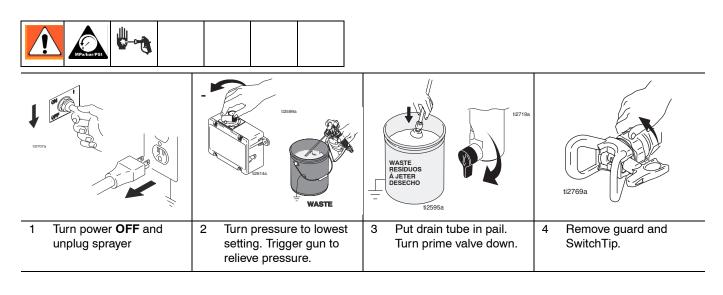
Spraying

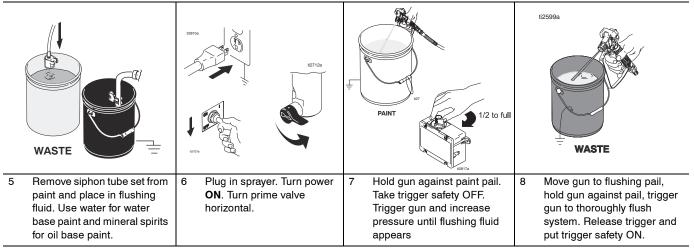
heavy ti2614b	U2756a
Spray test pattern. Start with pressure turned to its lowest	Hold gun perpendicular, 10-12 in. from surface. Spray back
setting, then gradually increase pressure gradually until	and forth, overlapping by 50%. To prevent heavy spots,
you achieve a consistent spray pattern without heavy	before pulling trigger, first move gun using a back and forth
edges. Use smaller tip size if pressure adjustment can not	motion. When you stop spraying, after releasing trigger,
eliminate heavy edges.	continue to move gun back and forth for a few seconds.

Clearing Clog

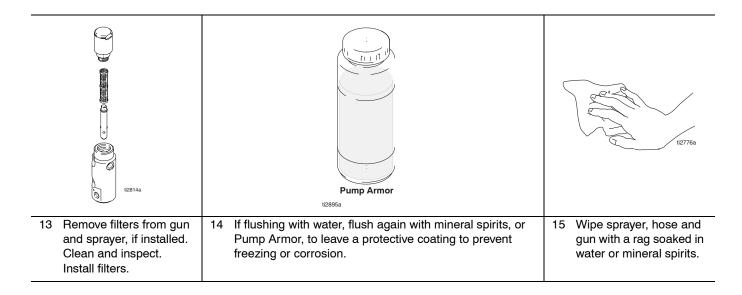
Z			
	a. b. C.		a. b. c.
1	 a.) Release trigger, put safety ON. b.) Rotate SwitchTip. c.) Take safety OFF. d.) Trigger gun to clear clog. Never point gun at your hand or into a rag! 	2	a.) Put safety ON.b.) Return Switch to original position.c.) Take safety OFF and continue spraying.

Cleanup



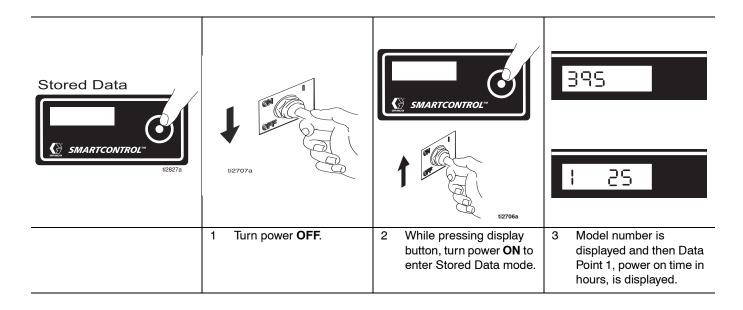


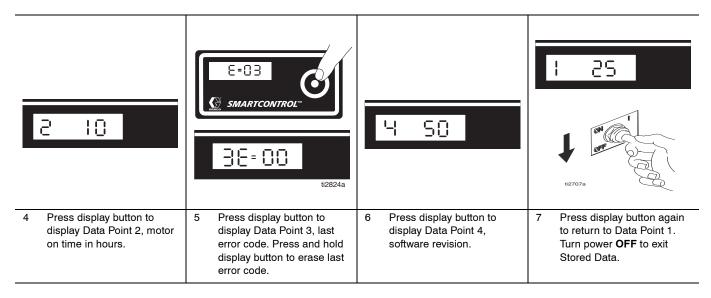
	ti2719a	PAINT UZO76	UTIA UTIA UTIA UTIA UTIA WASTE	ti2719a
9	Turn prime valve down and allow flushing fluid to circulate for 1 to 2 minutes to clean drain tube.	10 Raise siphon tube above flushing fluid and run sprayer for 15 to 30 seconds to drain fluid. Turn power OFF	11 Close drain valve. Trigger gun into flushing pail to purge fluid from hose.	12 Open prime valve.



Ultra/ST Max 395/495/595 Sprayers - Digital Display (Optional)

Ope	smartcontrol"			– – – pSi ti2786a		bar Psi MPa ti2888a
	Follow P ressure Relief Procedure, page 7.	 Plug sprayer in to grounded outlet. Turn power ON. 	3	The pressure is displayed. Dashes indicate pressure is less than 200 psi (14 bar, 1.4MPa).	4	Press and hold display button to change pressure units (psi, bar or MPa).





Ultra Max II/ST Max II Sprayers

€ DIGITAL ti7484a	MPa / bar / PSI	ti7485a	GALUUE GALUUE GALUUE GALUUE
Operation Main Menu Short press moves to next display. Press and hold (5 seconds) changes units or resets data.	1 Follow Pressure Relief , page 7.	2 Turn power ON. Pressure display appears. Dashes appear when pressure is less than 200 psi (14 bar, 1,4 MPa).	 Short press DTS button to move to Job Gallons (or Liters x 10). Note: JOB displays briefly, then the number of gallons sprayed above 1000 psi (70 bar, 7 MPa).

Ор	eration Main Menu		
4	Press and hold to reset to zero, or short press DTS button to move to Lifetime Gallons (or Liters x 10).	Note: LIFE displays briefly, then the number of gallons sprayed above 1000 psi (70 bar, 7 MPa)	

MPa / bar / PSI	DIGITAL 17488a	US95 5/N 0557	17490b
Secondary Menu Follow Pressure Relief, page 7.	2 Press DTS button and turn power switch ON.	3 Model (e.g. U595) displays for 1 sec, S/N for 1 sec, then the serial number. Short press DTS button. Total motor run hours displays.	4 Short press DTS button. Last error code is displayed; e.g., E=07 . (manual 309674)

	E = 0 0	O otorrat	
Se	condary Menu	Change Display Units:	
5	Press and hold DTS button to clear error code to zero. Short press to move to software REV .	Press and hold DTS button for 8 seconds to change pressure units (psi, bar, MPa) to desired units. Selection of bar or MPa changes gallons to liters x 10.	

Notes

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.

ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

Graco Information

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

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

Original Instructions. This manual contains English MM 309665

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

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www.graco.com Revised October 2013