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ΕN

# FinishPro<sup>™</sup> HVLP 7.0/9.0/9.5

For portable spray applications of fine finish coatings. For professional use only. Not approved for use in European explosive atmosphere locations.

120 Vac Models: 256847, 256848, 256849

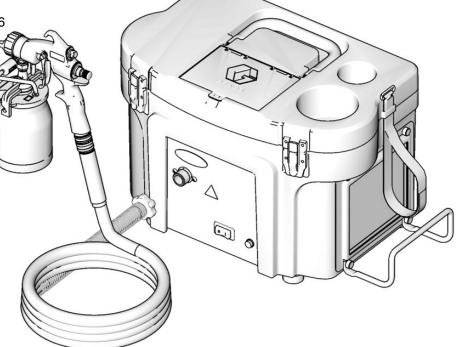
240 Vac Models: 256851, 256852, 256853

Maximum Working Pressure: 10 psi (0,07 MPa, 0.7 bar)



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

US Patent No.: 7,950,598, 7,971,806



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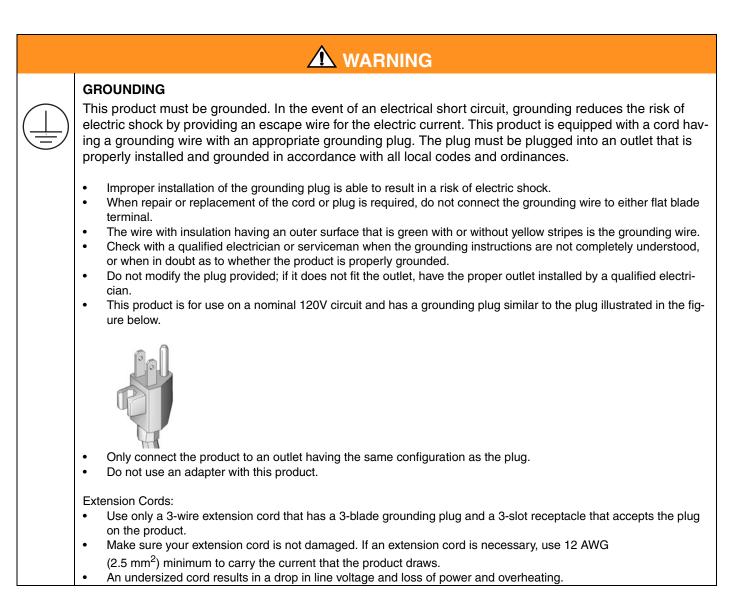
PROVEN QUALITY. LEADING TECHNOLOGY.

## **Table of Contents**

Table of Contents 2
Warnings
Grounding and Electric Requirements5
Component Identification
Setup 7
Fluid Preparation 7
Connect Fluid and Air Supply7
Pressure Relief Procedure7
Operation Tips
Maintenance
Troubleshooting
Repair
Sprayer Disassembly 10
Sprayer Assembly 10

## Warnings

The following warnings are for the setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risks. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.



#### 🛕 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: Do not spray flammable or combustible materials near an open flame or sources of ignition such as cigarettes, motors, and electrical equipment. Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun, and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use Graco conductive or grounded high-pressure airless paint sprayer hoses. Verify that all containers and collection systems are grounded to prevent static discharge. Connect to a grounded outlet and use grounded extensions cords. Do not use a 3-to-2 adapter. Do not use a paint or a solvent containing halogenated hydrocarbons. Keep spray area well-ventilated. Keep a good supply of fresh air moving through the area. Keep pump assembly in . a well ventilated area. Do not spray pump assembly. Do not smoke in the spray area. • Do not operate light switches, engines, or similar spark producing products in the spray area. Keep area clean and free of paint or solvent containers, rags, and other flammable materials. • Know the contents of the paints and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and • container labels provided with the paints and solvents. Follow the paint and solvents manufacturer's safety instructions. Fire extinguisher equipment shall be present and working. 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. 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. 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. . EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. Always wear appropriate gloves, eye protection, and a respirator or mask when painting. • • Do not operate or spray near children. Keep children away from equipment at all times. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times. • • Stay alert and watch what you are doing. Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not kink or over-bend the hose. • Do not expose the hose to temperatures or to pressures in excess of those specified by Graco. • Do not use the hose as a strength member to pull or lift the equipment. 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. 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 eyewear and hearing protection
- Gloves, clothing and respirator as recommended by the fluid and solvent manufacturer

#### **Grounding and Electric Requirements**



This equipment requires a 120 Vac, 60 Hz, 15A circuit, with a grounding receptacle.

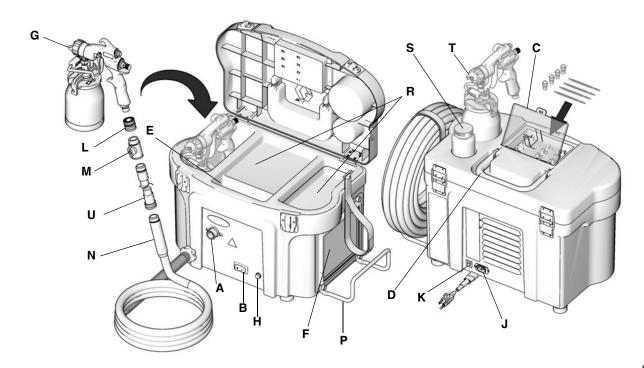
Do not alter the ground prong or use an adapter.

Use 3-wire, 12 awg, 50 ft (15 m) or shorter, extension cords with ground prong.

#### Sprayer Components Table

Sprayer	Model	Hose	Gun	Fluid Sets
FinishPro 7.0	256847, 256851	30-ft	256855 EDGE	#3
FinishPro 9.0	256848, 256852	30-ft	256855 EDGE	#3, #4
FinishPro 9.5	256849, 256853	30-ft and 4-ft	256855 EDGE	#2, #3, #4

# **Component Identification**



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	Item	Description
Α	Sprayer air outlet	HVLP connector for air sup- ply to HVLP spray Gun
в	Sprayer power switch	On/Off switch for sprayer motor
с	Fluid storage compartment	Provides storage for up to four fluid sets
D	Sprayer handle	Folds flat for minimum stor- age space
Е	Power cord storage	Provides storage for power cord
F	Air filters (pre-fil- ter and main)	Provides filtered air for spray gun and motor
G	Spray gun	Graco <i>EDGE<sup>™</sup></i> spray gun with <i>EasyGlide<sup>™</sup></i> trigger
н	Air filter indicator	Lights when air filter needs to be cleaned or replaced
J	Connector and power cord	Provides power for sprayer (power cord provided with sprayer)

	Item	Description
к	Resettable circuit breaker	Provides protection for motor
L	Quick connect	Enables quick connection to spray gun
М	Air valve	Provides FinishPro 9.0 and 9.5 sprayers ability to shut off air to spray gun
N	Air hose	Hose, 30 ft x 1 in., that con- nects spray gun and sprayer.
Ρ	Hose wrap	Provides storage for air hose when air hose is not in use
R	Storage tray	Provides extra storage
s	Cleaning cup holder	Provides storage for cleaning cup
т	<i>EDGE</i> spray gun holder	Provides external storage for spray gun
U	Hose, 4-ft	Allows increased flexibility for the FinishPro 9.5

- Strain fluids before you spray. This includes color, reducers and hardeners.
- Use a slower drying reducer or thinner to compensate for the faster drying time caused by the warm air of the turbine. Do not over reduce
- Sprayer performance varies with the viscosity of the material sprayed and the length of the hose. To prevent pressure drop, use hose supplied with sprayer.
- Most material manufacturers provide recommendations for their materials. Follow these recommendations.

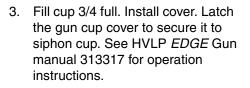
### **Connect Fluid and Air Supply**

#### Spray Gun with Siphon Cup

1. Connect air hose to sprayer. Hand tighten.



2. Connect air hose from sprayer to inlet fitting of gun.





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#### **Connect to Electric Supply**

Plug sprayer power cord into grounded outlet. Grounding and Electric Requirements, page 5.

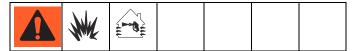
### **Pressure Relief Procedure**



The spray gun siphon cup is pressurized by the gun air supply. To reduce the risk of serious injury from pressurized fluid or accidental spray from gun, always turn off the air supply to the spray gun before removing the siphon cup.

- 1. Turn off sprayer.
- 2. Unplug sprayer.
- 3. Unlatch cup cover; loosen or remove cup from cover to relieve pressure.

### **Operation Tips**



Sparks can be expected during normal operation of motor. These sparks can ignite fumes from flammable liquids, dust particles, and other flammable substances in the spray area.

- Use additional hose if necessary, and ensure the sprayer is operated in clean, dry, well ventilated area.
- Never use sprayer inside spray booth.
- Turn sprayer on a few minutes before spraying to allow warm-up.
- Ensure sprayer filter is clean before operating. Clean filter, page 8.
- To adjust spray gun pattern, see HVLP *EDGE* Gun manual 313317.
- To get proper adhesion, ensure surface is completely clean.
- Always spray with the least amount of pressure required to provide the desired spray pattern and rate of application. Spraying at pressures higher than necessary wastes paint and can result in an orange peel finish.

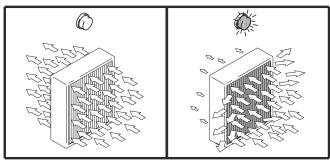
## Maintenance

The sprayer system is lifetime lubricated. The only maintenance required is filter cleaning and replacement.

#### **Filter Operation**

The sprayer filter must be clean at all times to provide sufficient air flow to cool the motor and atomize the fluid.

The sprayer has an air filter indicator light on the front panel. The indicator light illuminates if the filter is clogged or has low airflow.





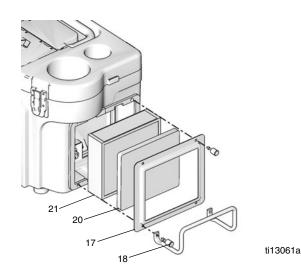
#### **Cleaning Filter**

- 1. Turn off and unplug sprayer.
- 2. Loosen four screws (18), remove filter retainer (17) and pre-filter (20).
- 3. Remove main filter (21) and clean using one of the following methods:

- Tap filter gently on flat surface, dirty side down.
- Direct, compressed air (100 psi(7 bar, 70 MPa) maximum) through filter panel in the opposite direction of arrows on side of filter (from the clean side to the dirty side.
- Soak filter for 15 minutes in water and mild detergent. Rinse filter until clean. Air dry.



To avoid electric shock, never install a damp filter in the turbine. Installing a damp filter in sprayer can also damage turbine.

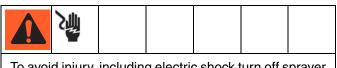


# Troubleshooting

Problem	Cause	Solution
No fluid delivery	No material, no remote cup pressur-	Check cup for material
	ization, hose or pickup tube clogged	Check for leaks at the container gas- ket (1-quart remote cup cover). Tighten cover if loose.
		Check air flow (approximately 1/4 CFM) from male quick-disconnect at Compact outlet.
		Turn pressure regulator clockwise. Look for pressure on gauge. (If no pressure on gauge, check air line fit- tings.)
		Check hole in 1-quart remote cup cover at needle valve for blockage or dirt. Clean if necessary.
		Check for obstructions.
		Check if fluid pickup tube is loose. Tighten.
		Blow out and clear material hose.
		Clean check valve. See manual 313317
Sprayer not starting	No power	Check outlet for power. Cycle red rocker switch.
		Check that correct IEC (modular) cord is used and plugged in.
		Check circuit breaker (38). Push to reset.
Poor atomization	Dirty filter	Clean filter and replace as necessary.
	Extension cord too long	Extension cord must be 3-wire, 12 AWG, 50 ft (15 m) or shorter.
	Hose too long	Replace with shorter hose. See Graco Fine Finish Solutions brochure 300564, for hose part numbers.
Circuit breaker trips	Filter clogged	Clean filter and replace as necessary
	High ambient temperature	Move sprayer to cooler area.
	Excessive current draw	Return to authorized service center.

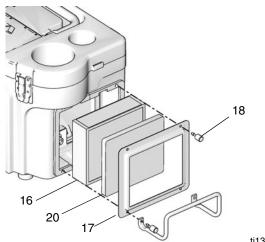
## Repair

### **Sprayer Disassembly**

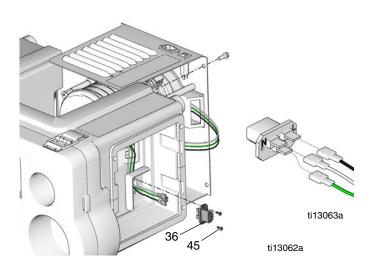


To avoid injury, including electric shock turn off sprayer and unplug power cord before performing any repair procedures on the turbine.

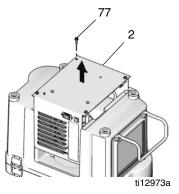
1. Remove four thumbscrews (18) and remove filter retainer (17), prefilter (20) and main filter (16). Parts, page 14.



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- 2. Remove two screws (45) and inlet plug (36) from HVLP box (1). Remove four motor wire connectors from inlet plug (36).



3. Place sprayer upside down. Remove four screws (77) from sprayer base plate (2).



- 4. Pull up sprayer base plate and attached parts. Thread motor wires that connected to inlet plug through access in HVLP box.
- 5. Repair or replace any required parts.

### **Sprayer Assembly**

- 1. Thread motor wires that connected to inlet plug through access in HVLP box. Insert sprayer base plate and attached parts down into HVLP box.
- 2. Install four screws (77) into sprayer base plate (2).
- Install three motor wire connectors onto inlet plug (36). Install inlet plug (36) with two screws (45) into HVLP box (1).
- 4. Remove four thumbscrews (18) and Install filter gaskets (19), main filter (16), prefilter (20) and filter retainer (17) with four thumbscrews (18).

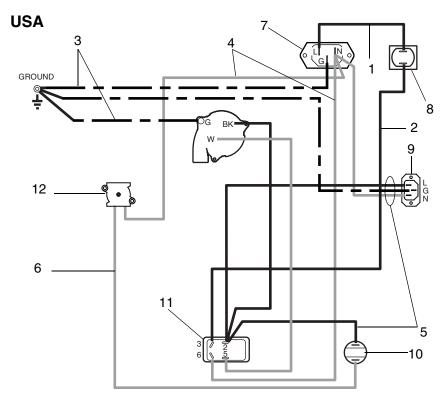
## **Motor Replacement**

Refer to Parts Drawing, page 14.

- 1. Follow Sprayer Disassembly procedure, page 10.
- 2. Remove gasket (25).
- 3. Remove three screws (6).
- 4. Remove plate (82) and three spacers (83).
- 5. Remove motor wires from spade connectors.

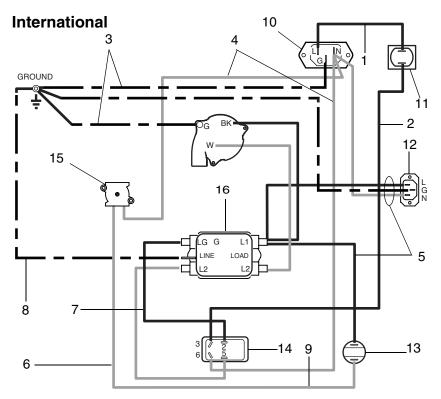
- 6. Rotate motor (24) from outlet fitting (18) and lift up from spacers (23).
- 7. Install new gaskets (21, 23, 24, 59 and 60).
- 8. Reassemble motor.
- 9. Connect ground wire to motor housing.
- 10. Reconnect wires.

# Wiring Diagrams



Ref	Part	Description	Qty
1	244273	Conductor, BK	1
2	15W486	Conductor, BK	1
3	15W485	Conductor, G/Y	1
4	15W484	Conductor, W	1
5	257333	Conductor, W, BK, G	1
6	240256	Conductor, W	1
7	114064	Plug, inlet	1
8	114403	Circuit Breaker, 15A	1
9	15V923	Plug, outlet, CompPack	1
10	114280	Light, indicator, 120V	1
11	114293	Switch, rocker	1
12	114279	Sensor, pressure	1

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Ref	Part	Description	Qty
1	244273	Conductor, BK	1
2	15W486	Conductor, BK	1
3	15W485	Conductor, G/Y	1
4	15W484	Conductor, W	1
5	257333	Conductor, W, BK, G	1
6	15W488	Conductor, W	1
7	15W487	Conductor, BK	1
8	240558	Conductor, G/Y	1
9	240256	Conductor, W	1
10	114064	Plug, inlet	1
11	16A348	Circuit Breaker, 10A	1
12	15V923	Plug, outlet, CompPack	1
13		Light, Indicator, 240V	1
14	114293	Switch, rocker	1
15	114279	Sensor, pressure	1
16	116168	Filter, suppression	1

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## **Technical Data**

#### 120 Vac, 60 Hz

	Ampere	Watts	Maximum Hose Length ft (m)	Sprayer Weight Ib (kg)	Total Weight Ib (kg)	Sound Power*	Sound Pressure*
FinishPro 7.0	11.0	200	40 (12,2)	28 (12,7)	38 (17,2)	94.9 dBa	82 dBa
FinishPro 9.0	11.0	250	60 (18,3)	29 (13,2)	39 (17,7)	95.9 dBa	83 dBa
FinishPro 9.5	13.6	300	60 (18,3)	30 (13,6)	40 (18,1)	96.3 dBa	83.4 dBa

#### 240 Vac, 50 Hz

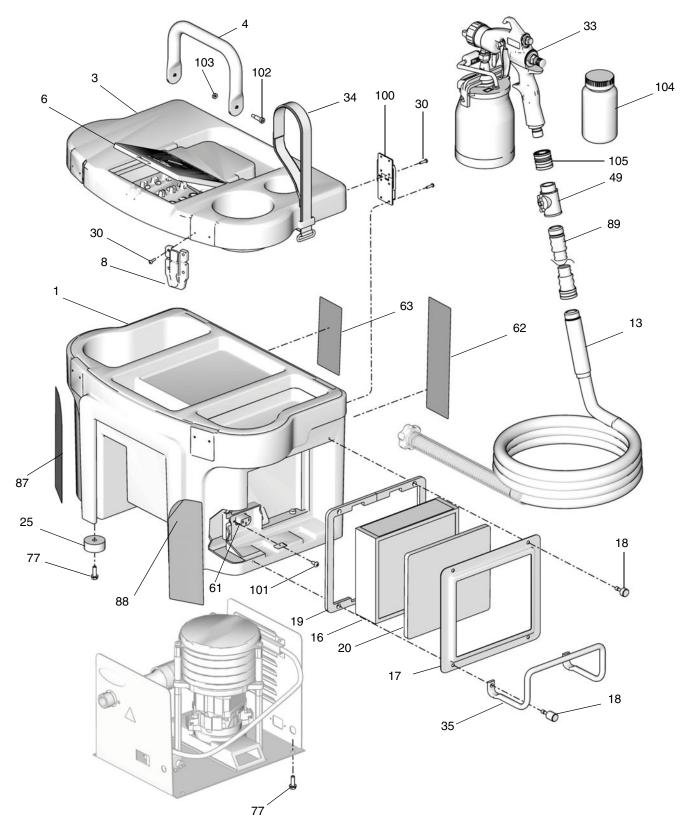
	Ampere	Watts	Maximum Hose Length ft (m)	Sprayer Weight Ib (kg)	Total Weight Ib (kg)	Sound Power*	Sound Pressure*
FinishPro 7.0	5,40	200	40 (12,2)	28 (12,7)	38 (17,2)	94.9 dBa	82 dBa
FinishPro 9.0	5,93	250	60 (18,3)	29 (13,2)	39 (17,7)	95.9 dBa	83 dBa
FinishPro 9.5	7,07	300	60 (18,3)	30 (13,6)	40 (18,1)	96.3 dBa	83.4 dBa

\* Sound Power and Sound Pressure are measured at

1 meter per ISO 3744

### **Parts**

Models 256847, 256848, 256849, 256851, 256852, 256853



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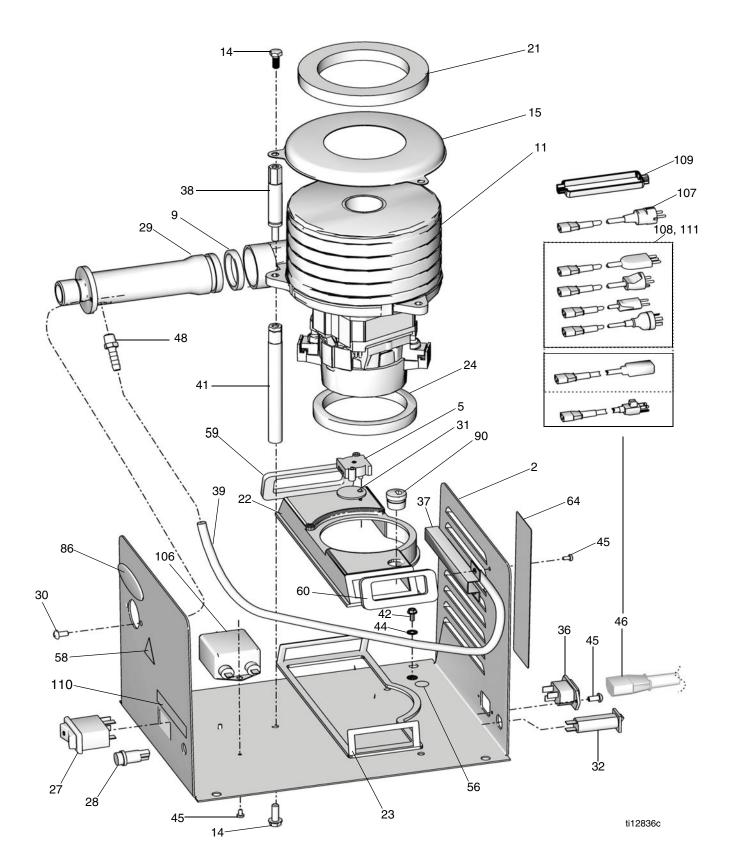
### **Parts List**

#### Models 256847, 256848, 256849, 256851, 256852, 256853

Ref	Part	Description	Qty	Ref	Part	Description	Qty
1	277934	BOX. HVLP	1	61	15V923	PLUG, inlet	1
3		COVER, HVLP, includes 6	1	62 🔺	15W100	LABEL, safety	1
4	15V791	HANDLE	1	63 🔺	15W223	LABEL, safety	1
6	15V771	LID, accessory	1	77		SCREW, mach, hex, washer hd	8
8		LATCH	2	87	15W635	LABEL, FinishPro, HVLP	1
13	257159	HOSE, air, 30 ft, black	1	88		LABEL, FinishPro, HVLP	
16	240273	FILTER, main	1		15W636	LABEL, FinishPro, HVLP 7.0	1
17	15W794	RETAINER, filter	1		15W637	LABEL, FinishPro, HVLP 9.0	1
18	15W897	SCREW, captive	4		15W638	LABEL, FinishPro, HVLP 9.5	1
19	15W217	GASKET, filter	2	89	257161	HOSE, 4 ft, FinishPro 9.5	1
20	15W909	FILTER, foam	1	100	15V927	HINGE	2
25	113817	BUMPER	4	101	117317	, ,	2
30	15W505	SCREW, mach, phillips pan hd	2	102	15X227		2
33	256855	GUN, HVLP, with cup	1	103	102040	NUT, lock, hex	2
34	114271	STRAP, retaining	1	104	116234	BOTTLE	1
35	15V862	HOSE, rack	1	105	M70402	QUICK DISCONNECT	1
49		VALVE, air control					
		FinishPro 7.0 (not included)		▲ Ex	tra Dange	r and Warning labels are available i	for free.
	240065	FinishPro 9.0	1				
	240065	FinishPro 9.5	1				

## **Parts Drawing**

Models 256847, 256848, 256849, 256851, 256852, 256853



### **Parts List**

#### Models 256847, 256848, 256849, 256851, 256852, 256853

Ref	Part	Description	Qty	Ref	Part	Description	Qty
-		•	•			FinishPro 9.5	3
2		PLATE, base, turbine, painted	1	39		HOSE, air	1
5		SENSOR, pressure O-RING	1	41		SPACER, turbine	3
9 11	120090	TURBINE* +	1	42		SCREW, grounding	1
11	15/010	FinishPro 7.0, 3-stage, 120V	1	44		WASHER, lock, ext	1
		FinishPro 9.0, 4-stage, 120V	1	45	102000	SCREW, mach, torx pan hd	•
		FinishPro 9.5, 5-stage, 120V	1	40	15W998		4
		FinishPro 7.0, 3-stage, 240V	1		15W998		6
		FinishPro 9.0, 4-stage, 240V	1	46		CORD, power	Ũ
		FinishPro 9.5, 5-stage, 240V	1	10	15W126	USA, 6 ft. 15A, 120V	1
14		SCREW, cap, hex hd	6			Euro, 2 m, 8A, 240V	1
15		PLATE, turbine	1	48		FITTING, barbed	1
21	134034	GASKET, turbine		56		LABEL, ground	1
21	15\1/153	FinishPro 7.0	1			LABEL, brand, hot surface	1
		FinishPro 9.0	1	59		GASKET, duct, left	1
		FinishPro 9.5	1	60		GASKET, duct, right	1
22		DUCT, turbine	1			LABEL, safety	1
23		GASKET, DUCT	1	86		LABEL, brand, TurboForce	1
24		GASKET, DUCT	1	90		BUSHING, strain relief	1
27		SWITCH, rocker	1	106		FILTER, suppression, EMI, 240V	1
28	111200	LIGHT, indicator	•	107		CORDSET, adapter, Europe	1
20	114280		1	108		CORDSET, adapter, 220V, global,	1
	114286		1			includes 108a through 108d	
29		FITTING, outlet	1	108a		CORDSET, adapter, Italy	1
30		SCREW, mach, phillips pan hd	2	108b		CORDSET, adapter, Denmark	1
31		GASKET, sensor	1	108c		CORDSET, adapter, Switzerland	1
32		CIRCUIT Breaker		109	195551	• •	1
-	114403	120V, 15A	1	110	15X254	SWITCH INDICATOR	1
		240V, 10A	1	111	242005	CORDSET, adapter, Australia	1
36		PLUG, INLET	1				
37		PLATE, deflector	1			Kits 256953 and 256954 are also availab	le.
38	-	SPACER, turbine		▲ Extr	a Danger a	nd Warning labels are available for free.	
-	15W148	FinishPro 7.0	3	Turbine k	it includes i	items 9, 15, 21, 23, 24, 59 and 60	
		FinishPro 9.0	3				

## **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.

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#### 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.

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Original instructions. This manual contains English. MM 313406

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