Repair



Interior Texture Sprayers RTX 900 & RTX 1250

311772G

For Water-Based Materials Only

Models: 254974 and 254975

70 psi (0.49 MPa, 4.9 bar) Maximum Fluid Working Pressure



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.

Related Manuals



311777



311768



Model 254975 Shown

PROVEN QUALITY. LEADING TECHNOLOGY.



Warnings

The following are general warnings related to the setup, use, grounding, maintenance and repair of this equipment. Additional, more specific 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 through the manual, refer back to these pages for a description of the specific hazard.



Warnings



Fire and Explosion Hazard

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

- The system is for use with water-based materials only. Only use fluids compatible with the
 equipment. Refer to Technical Data of all equipment manuals. Read fluid and solvent manufacturers
 warnings.
- Ground all equipment in the work area. See Grounding and Electrical Requirements, page 6.
- If there is any static sparking or you feel an electric shock while using this equipment, stop spraying immediately. Do not use the equipment until you identify and correct the problem.
- Keep work area free of debris, including solvent, rags and gasoline.
- Comply with all applicable state and national fire, electrical and safety regulations.
- · Keep a fire extinguisher in the work area.



Equipment Misuse Hazard

Equipment misuse can cause equipment to rupture, malfunction, or start unexpectedly and cause serious injury.

- Before operating this equipment, read all manuals, tags, and labels, including material labels and instructions.
- Do not expose system to rain. Always store system indoors.
- Do not alter or modify equipment.
- · Do not spray cementitious materials.
- Do not exceed maximum working pressure of lowest rated component in your system.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- To reduce risk of serious injury, including electric shock and splashing fluid in eyes, follow Pressure Relief Procedure on page 6 before servicing the unit.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Route hoses away from traffic areas, sharp edges, moving parts and hot surfaces. Do not expose Graco hoses to temperatures above 130° F (55° C) or below -35° F (-37° C).
- Air hoses at the compressor end, can get very hot! Allow sprayer to cool down 15 minutes before removing air hose.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Never directly inhale compressed air. Compressed air may contain toxic vapors.



Warnings



Electric Shock Hazard

To reduce the risk of electric shock:



- Be sure sprayer is adequately grounded through electrical outlet, page 6.
- Use only 3-wire, extension cords.
- Make sure ground prongs are intact on sprayer and extension cords.
- Do not operate with cover removed.
- Turn off sprayer. Follow **Pressure Relief Procedure**, **page 6**, and unplug unit, before removing any parts.



Pressurized Equipment Hazard

Fluid from gun, leaks or ruptured components can splash in the eyes or on skin and cause serious injury.



- Follow **Pressure Relief Procedure**, **page 6** when you stop spraying and before cleaning, checking or servicing.
- Do not point spray gun at anyone; put hand, fingers or rag over nozzle, or stop or deflect leaks with your hand, body, glove, or rag.
- · Wear protective clothing, gloves, and eyewear.



Cleaning Solvent Hazard with Plastic Parts

Use only compatible water-based solvents to clean plastic structural or pressure-containing parts. Many solvents can degrade plastic parts to the point where they could fail. Such failure could cause serious injury or property damage. See Technical Data on page 33 of this instruction manual and in all other equipment manuals. Read fluid and solvent manufacturer's warnings.



Burn Hazard

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.



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 evewear
- · Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing Protection

CAUTION



Water or material remaining in unit when temperatures are below freezing can damage motor and/or delay pump startup.

To insure water and material are completely drained out of unit:

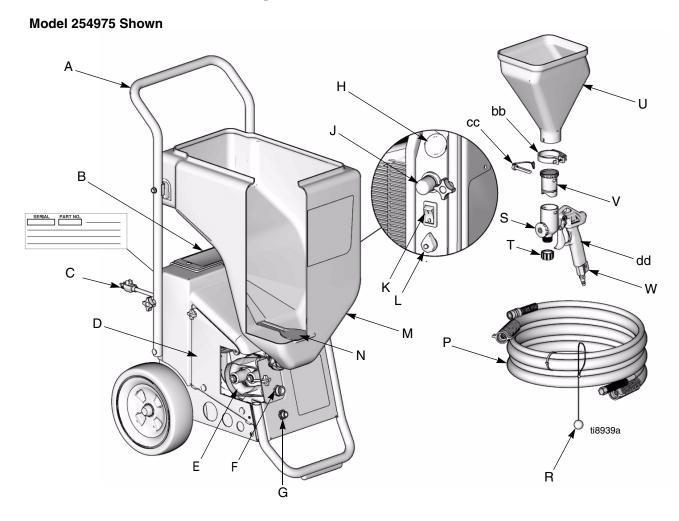
- 1. Remove material line from sprayer.
- 2. Tip sprayer up as shown.

Before adding material or starting unit in cold weather, run warm water through pump.



Before adding material to hopper, install burp guard. When only a small amount of material remains in the hopper, the burp guard prevents material from shooting out when the unit is turned off. This material could splash in the operator's eyes or on skin, or into the air.

Component Identification



Item	Component	Item	Component
Α	Handle	N	Burp Guard
В	Toolbox	Р	Material/Air Hose
С	Power Cord (120V, 25 ft)	Q	Accessories Bag
D	Side Pump Access Panel (RTX 1250 Only)	R	Material Thickness Gauge
E	RotoFlex [™] II Pump (inside)	S	Nozzle (4 Total)
F	Pump Hose Outlet	Т	Hose Plug
G	Air Hose Outlet	U	Touch-Up Hopper (3/4 gallon)
Н	Material Flow Gauge	V	Gun Plug
J	Material Flow Control	W	Air Control
K	ON/OFF Switch	bb	Hopper Clamp
L	Selector Switch (Hopper Gun/Sprayer)	СС	Gun Plug Clip
М	Material Hopper - 10 gallon, RTX 900 Material Hopper - 12 gallon, RTX 1250	dd	Hopper Gun

Pressure Relief Procedure

To reduce risk of injury, follow this procedure whenever you see this symbol throughout this manual, Also, perform this procedure whenever you:



- · Stop spraying
- · Check or repair any part of this system
- · Install or clean spray nozzle



1. Turn Power Switch OFF.



2. Trigger gun into material hopper.



3. Open gun air valve.



Grounding and Electrical Requirements

This sprayer must be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electrical current. The sprayer cord includes a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or if grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify plug provided; if it will not fit the outlet, have proper outlet installed by a qualified electrician.



120V AC Systems

 This equipment requires a 120V AC, 60 Hz, 15A circuit with a grounding receptacle. Do not use an adapter with this product.

Extension Cords

- Use only an extension cord with an undamaged, 3-prong plug.
- For 25 to 50 ft (7.6 to 15.2 m) cords, use 3-wire, 14
 AWG (1.5 mm²) minimum.
- For up to 100 ft. (30.48 m) cord, use 3-wire, 12 AWG (2.5 mm²) minimum.

Auxiliary Air Compressor

Do not use an auxiliary air compressor with this spray system.

Generator Requirements

3500 W (3.5 KW) minimum.

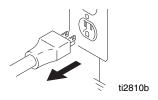
Hose Size and Length

The system comes with a hose set consisting of a 3/4 in. ID x 25 ft (25 mm x 7.6 m) material hose and a 3/8 in-ID air hose.

Shroud Removal

Disassembly

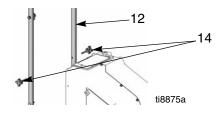
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



3. Loosen bottom hopper fitting by hand and pull hopper up and off from handle.



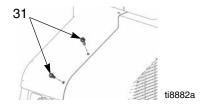
4. Loosen and remove 2 knobs (14) on sprayer handle (12).



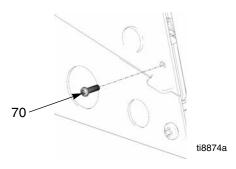
- 5. Spread handle bars apart and pull up to remove from sprayer.
- 6. Loosen screws (30) and screw (31) from toolbox and remove toolbox (2) from sprayer.



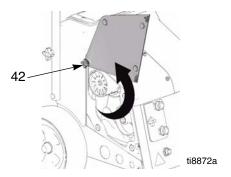
7. Loosen screws (31) on shroud.



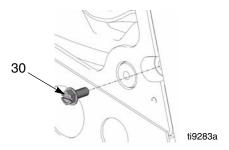
8. Loosen and remove screw (70) from lower right corner of side access panel (RTX1250) only.



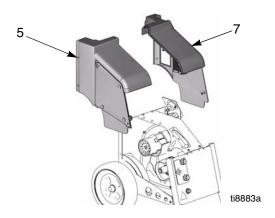
Loosen knob (42) on side access panel and swing open door.



10. Use screwdriver to remove second screw (30).

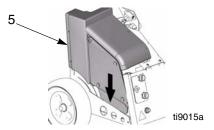


11. Remove two shroud halves (5 and 7) from sprayer.

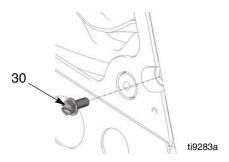


Reassembly

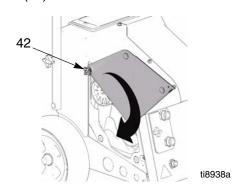
1. Angle left shroud half (5) into base and push down into place. Then replace right shroud half (7).



2. Replace and tighten second screw (30).



3. Swing access door down (RTX 1250) and tighten knob (42).



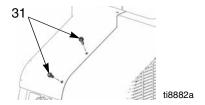
4. Tighten screw (70) into lower right corner of side access plate.



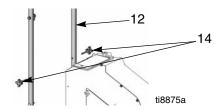
5. Replace toolbox (2) and tighten screws (30) and screw (31).



6. Tighten screws (31) on shroud.



- 7. Spread handle bars apart and slide handle down into place.
- 8. Tighten 2 knobs (14) on sprayer handle (12).

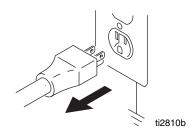


9. Replace hopper and tighten hopper fitting by hand until snug.

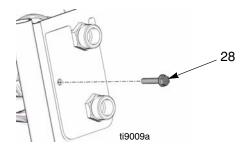
RotoFlex™ II Pump (RTX 900)

Disassemble

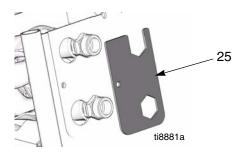
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove Shroud, page 7.
- 4. Loosen and remove screw (28) on hose bracket.



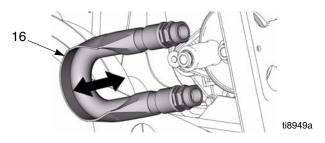
5. Remove hose bracket (25).



Slide pump fittings over and push through keyhole slots.

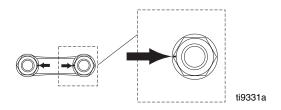


7. Grab pump hose (16) from side of unit and remove pump hose by hand.

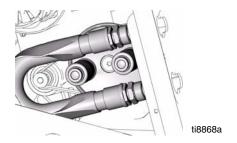


Reassemble

1. Bend hose (16) so colored dots on hose fittings face each other.



Slide new pump hose (16) over rollers. Move pump rollers by hand until or flip power switch to rotate rollers until they are positioned correctly with pump hose.

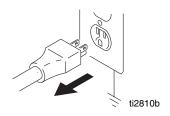


- 3. Feed pump fittings through front access panel keyhole slots and slide into place.
- 4. Replace hose bracket (25) to lock pump hose fittings into place.
- 5. Replace hose bracket (25) and tighten screw (28).
- 6. Replace Shroud, page 7.
- 7. Break in new pump by adding 1 cup of water to pump and running dry for 3 minutes.

RotoFlex™ II Pump (RTX 1250)

Disassemble

- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



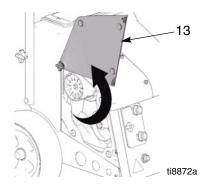
3. Loosen knob (42) on side access panel.



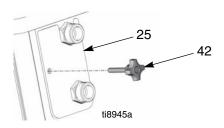
4. Remove screw (70) from side access panel.



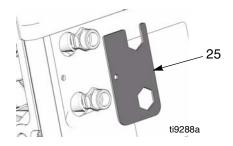
5. Pull access panel (13) out to release 3 fastening tabs and flip up to expose side access to pump.



6. Loosen and remove knob (42) on hose bracket (25).



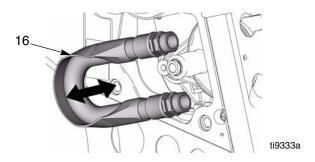
7. Remove hose bracket (25).



8. Slide pump fittings over and through keyhole slots.

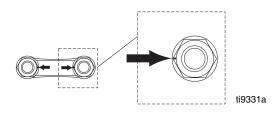


9. Grab pump hose (16) from side access panel and remove pump hose from unit.



Reassemble

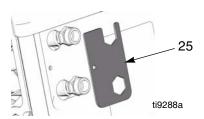
1. Bend hose (16) so colored dots on hose fittings face each other.



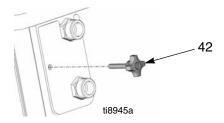
2. Slide new pump hose (16) in from side access panel. Move pump rollers by hand until or flip power switch to rotate rollers until they are positioned correctly with pump hose.



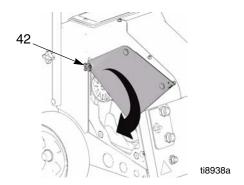
3. Replace hose bracket (25) to lock pump hose into place.



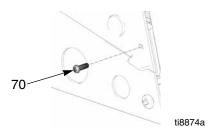
4. Tighten hose bracket knob (42).



5. Flip side access panel (13) down and tighten knob (42).



6. Replace and tighten screw (70) from side access panel.



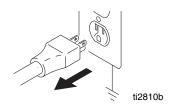
7. Break in new pump by adding 1 cup of water to pump and running dry for 3 minutes.

Compressor

Use Compressor Repair Kit, 288612.

Disassembly

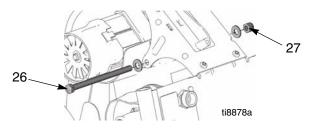
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



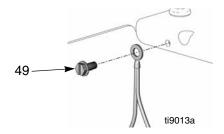
- 3. Remove Shroud, page 7.
- 4. Remove **RotoFlex[™] II Pump** hose; page 9 or 10.
- 5. Unscrew and remove grounding screw (49) from compressor.



 Use 9/16 in. socket and wrench to remove pivot bolt (26) and nut (27).



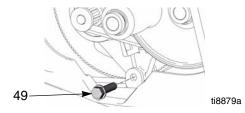
7. Unscrew and remove second 1/2 in. grounding screw (49) from bracket (21).



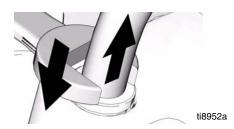
8. Remove 4 screws (29) and lift bracket (21) off of compressor.



9. Remove shoulder bolt (49) holding pump roller in place.

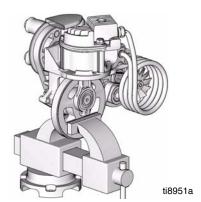


10. Use a wrench to push down on push-to-connect fittings and pull out all nylon hoses.



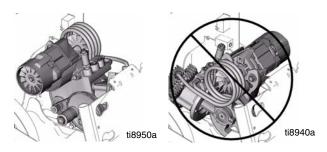
- 11. Disconnect all electrical wire connectors, see **Wiring Diagram**, page 27.
- 12. Thoroughly clean inside housing, removing dust and debris.

To service the compressor, remove it from the sprayer body and place it a vice. Tighten the vice onto the main pulley to hold the compressor in place while servicing.

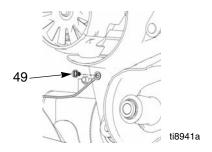


Reassembly

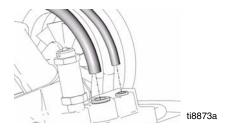
1. Carefully position compressor back into sprayer body. Make sure piston head facing front of sprayer.



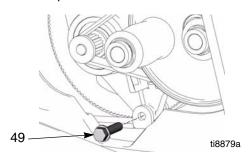
2. Replace and tighten grounding screw (49).



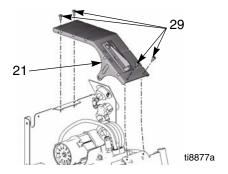
3. Reattach air lines to compressor.



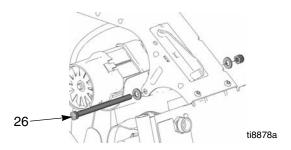
- 4. Reattach 2 wires to compressor see **Wiring Diagram**, page 27.
- 5. Replace air cylinder and tighten shoulder bolt (49) to lock into place.



6. Replace bracket (21) and tighten 4 screws (29).



- 7. Replace grounding screw (49) and tighten onto bracket (21).
- 8. Replace pivot bolt (26) and nut. Use 9/16 in. socket and wrench to tighten into place. Tighten screw until spring washers are flattened.



9. Replace and tighten second grounding screw (49) to bracket (21).



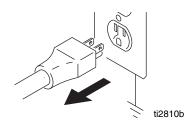
- 10. Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 11. Replace Shroud, page 7.

Piston/Cylinder

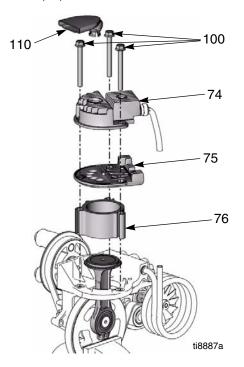
Use Piston/Cylinder Repair Kit 288609.

Disassembly

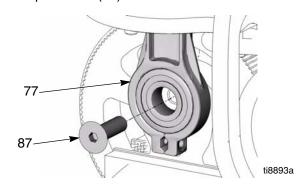
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove Shroud, page 7.
- 4. Remove **RotoFlex[™] II Pump** hose; page 9 or 10.
- 5. Remove Compressor, page 12.
- 6. Remove muffler (110) from head (74) by pulling straight out by hand.
- 7. Use 1/2 in. socket to remove three bolts (100) from head (74).



- 8. Use flat-blade screwdriver to pry head (74) from top of valve plate (75) and cylinder (76) from bottom of valve plate (75).
- 9. Use 7/32 in. allen wrench to remove hex screw (87) from piston rod (77).



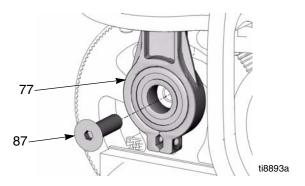
Reassembly

CAUTION

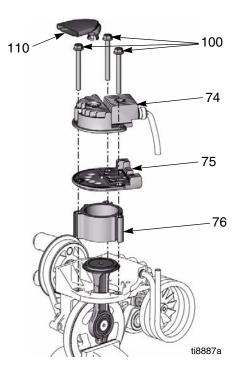
Piston and cylinder come packaged together. Do NOT let piston and cylinder come apart. If they do, make sure you drop the piston down through the top of the cylinder and tilt the piston as you pull it through the cylinder. Do NOT push the piston up from the bottom. You could easily damage the piston gasket.



1. Replace piston (77) and cylinder (76) and use 7/32 in. allen wrench to tighten hex screw (87) into piston rod.



2. Replace valve plate (75) with ribs facing up toward head.



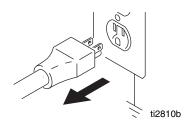
- 3. Replace three bolts (100) and use 1/2 in. socket to tighten into head (74). Torque all three bolts to 75 in-lb, then torque all bolts again to 210 in-lb.
- 4. Position muffler (110) as seen below and press onto head (74) until it snaps into place.
- 5. Replace Compressor, page 12.
- 6. Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 7. Replace **Shroud**, page 7.

Valve Plate

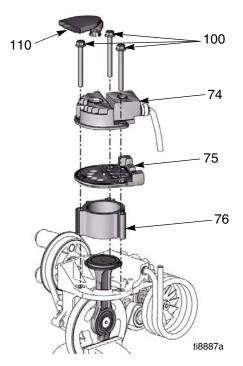
Use Valve Plate Repair Kit 288610.

Disassembly

- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove Shroud, page 7.
- 4. Remove **RotoFlex[™] II Pump** hose; page 9 or 10.
- 5. Remove Compressor, page 12.
- 6. Remove muffler (110) from head (74) by pulling straight out by hand.
- 7. Use 1/2 in. socket to loosen and remove three bolts (100) from head (74).



8. Use flat-blade screwdriver to pry head (74) from top of valve plate (75) and cylinder (76) from bottom of valve plate (75).

Reassembly

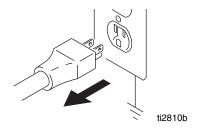
- 1. Replace valve plate (75) with ribs facing up toward ribs on head (74).
- 2. Replace three bolts (100) and use 1/2 in. socket to tighten into head (74). Torque all three bolts to 75 in-lb, then torque all bolts again to 210 in-lb.
- 3. Replace Compressor, page 12.
- Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 5. Replace **Shroud**, page 7.

Motor

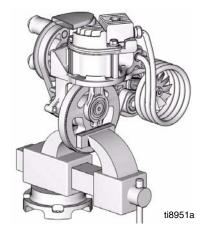
Use Motor Repair Kit 288613.

Disassembly

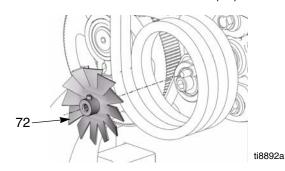
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



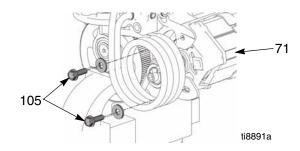
- 3. Remove **Shroud**, page 7.
- Remove RotoFlex[™] II Pump hose; page 9 or 10.
- 5. Remove Compressor, page 12.
- 6. Remove compressor from sprayer body and place it in a vice. Tighten the vice onto the main pulley to hold the compressor in place while servicing motor.



7. Loosen set screw and remove fan (72).



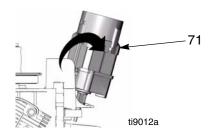
8. Use a box end wrench to loosen and remove two mounting bolts (105) on motor (71).



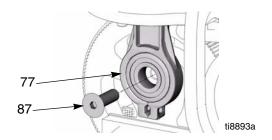
CAUTION

Be careful not to bend or damage the cooling tube when removing it from the motor.

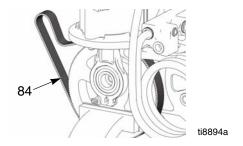
9. Angle motor (71) and slide motor pulley through compressor belt to remove motor from compressor.



- Compressor belt (84) should be replaced every time motor is replaced.
- 10. Use 7/32 in. allen wrench to remove hex screw (87) from piston rod (77).

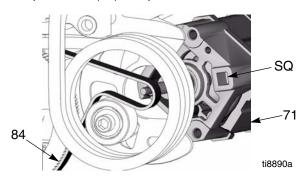


11. Remove compressor belt (84).

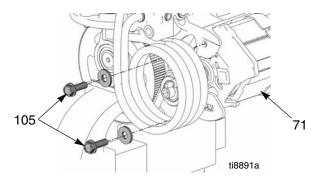


Reassembly

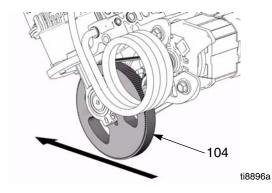
1. Angle motor pulley through compressor belt (84) and pull motor (71) into position.



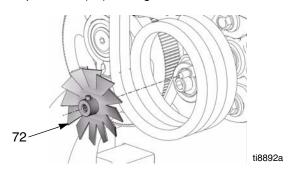
- When replacing motor (71), make sure the square-shaped hole (SQ) is facing toward the outside of the compressor. This hole will be used to torque the mounting bolts.
- 2. Tighten two mounting bolts (105) on motor (71) until snug, then back 1/8 of a turn.



- Insert torque wrench into square hole (SQ) on motor and tighten bolts to 130-150 in-lb (this may require two people; one to torque while the other tightens mounting bolts). Tighten motor bolts (105).
- 4. Take compressor out of vice and rotate pump pulley (104) one full revolution to seat the belt properly.



- 5. Place compressor back into vice and torque bolts as described in steps 2 and 3.
- 6. Replace fan (72) and tighten set screw.



- 7. Replace Compressor; page 12.
- 8. Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 9. Replace Shroud, page 7.

Cooling Tube

Use Cooler Repair Kit 288614.

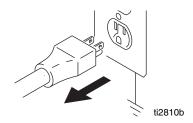




The cooling tube is extremely hot and can cause serious burns. Allow unit to completely cool before servicing the cooling tube.

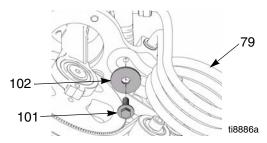
Disassembly

- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove **Shroud**, page 7.
- Remove RotoFlex[™] II Pump hose; page 9 or 10.
- 5. Remove Compressor, page 12.

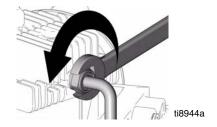
6. Use 3/8 in. socket to remove screw (101) and washer (102) under cooling tube (79).



7. Use wrench to push against fitting (86) and carefully pull cooling tube (79) out.

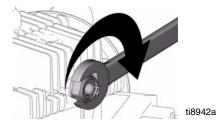


8. Use 5/8 in. wrench to unscrew cooling tube fitting.

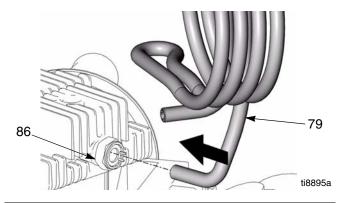


Reassembly

1. Insert new cooling tube fitting and use 5/8 in. wrench to tighten.



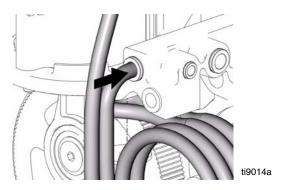
2. Insert cooling tube (79) and push into new fitting (86). Make sure tube is fully seated.



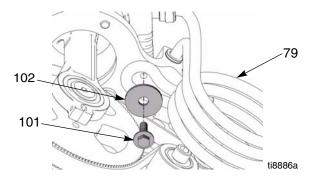
CAUTION

When replacing cooling tube, make sure coil is facing up when you push the tubing into the fitting. If you push from any other angle you could bend or damage the tube.

3. Rotate cooling tube around and insert free end into push-to-connect fitting. Make sure tube is fully inserted.



4. Replace screw (101) and washer (102) under cooling tube (79) and use 3/8 in. socket to tighten.



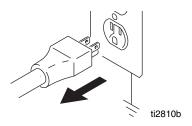
- 5. Replace Compressor; page 12.
- 6. Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 7. Replace **Shroud**, page 7.

Idler

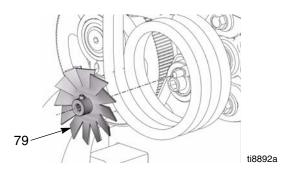
Use Idler Repair Kit 288611.

Disassembly

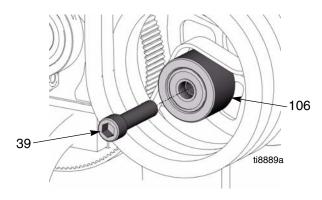
- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove **Shroud**, page 7.
- 4. Remove **RotoFlex[™] II Pump** hose; page 9 or 10.
- 5. Remove Compressor, page 12.
- 6. Remove compressor belt, page 17.
- 7. Loosen set screw and remove fan (79).



8. Loosen screw (39) and remove Idler (106).



Every time you replace the Idler you should also replace the compressor belt, page 17.

Reassembly

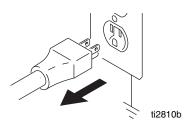
- 1. Install new compressor belt, page 17.
- 2. Replace new Idler (106) and tighten screw (39).
- 3. Replace fan (79) and tighten set screw.
- 4. Replace Compressor, page 12.
- 5. Replace **RotoFlex[™] II Pump** hose; page 9 or 10.
- 6. Replace **Shroud**, page 7.

Roller Pulley/Belt

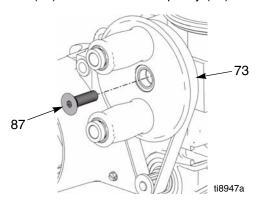
Use Roller Pulley Repair Kit 288616.

Disassembly

- 1. Relieve Pressure, page 6.
- 2. Unplug sprayer from outlet.



- 3. Remove Shroud, page 7.
- 4. Remove **RotoFlex[™] II Pump** hose; page 9 or 10.
- 5. Remove Compressor, page 12.
- 6. Use 7/32 in. allen wrench to loosen roller mounting bolt (87) and remove roller pulley (73).



7. Remove belt (83) and discard.



Every time you replace the roller pulley, you should also replace the belt.

Reassembly

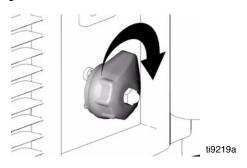
- 1. Install new compressor belt (83).
- 2. Loop belt over roller pulley and align roller with bolt hole.
- 3. Use 7/32 in. allen wrench to tighten bolt (87) to 20 \pm 2 ft-lb.
- 4. Replace Compressor, page 12.
- Replace RotoFlex[™] II Pump hose; page 9 or 10.
- 6. Replace Shroud, page 7.

Selector Switch Knob

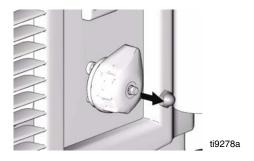
Use Knob Repair Kit 288756.

Disassembly

 Turn selector switch knob clockwise as far as it will go.



2. Use wrench to remove nut from knob.



3. Pull knob straight off from sprayer.



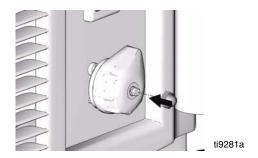
Once knob has been removed, don't move the exposed spline. If it is moved, use your fingers to turn it clockwise as far as it will go for a tight fit prior to reassembly of knob. This will properly align knob to spline.

Assembly

1. Position new knob to point right (approximately 45° from vertical) and slide it onto exposed spline.



2. Apply Locktite (1 drop or small amount) to knob nut and tighten with wrench.

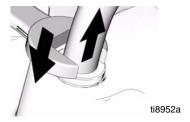


Regulator Valve

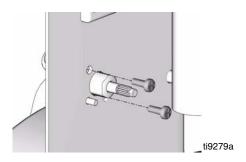
Use Regulator Repair Kit 288757.

Disassembly

- 1. Remove **Knob**, page 23.
- 2. Remove **Shroud**, page 7.
- 3. Use wrench to push against fitting (86) and carefully pull cooling tube (79) out.



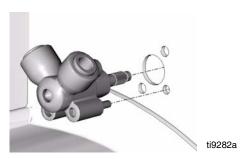
4. Use phillips screwdriver to remove two screws.



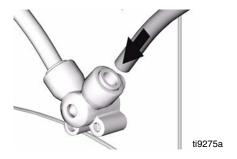
5. Remove old regulator valve.

Assembly

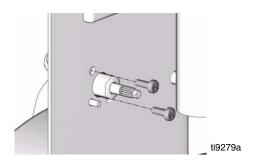
1. Replace new regulator valve and feed through 3 holes on side of sprayer.



2. Reattach two air lines.

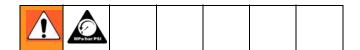


Replace two screws and tighten with phillips screwdriver.



- 4. Replace **Knob**, page 23.
- 5. Replace Shroud, page 7.

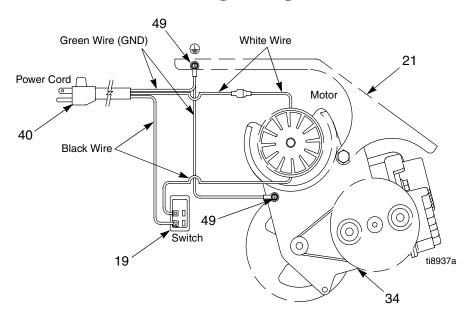
Troubleshooting



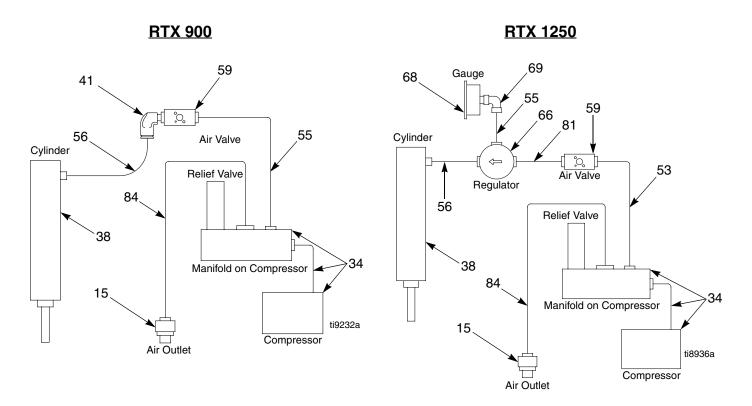
Problem	Cause	Solution
Sprayer won't run	Power switch not on	Turn switch on.
Oump won't pump material Material runs out of bottom of spraye	No power at wall outlet	Check outlet by plugging in another appliance. If appliance does not work, try another outlet.
	Wrong size generator	Use a 3500 watt or larger generator. Refer to Generator Requirements, page 6.
	Breaker tripped	Reset breaker.
Pump won't pump material	Air lock	Open air valve on gun.
	Selector switch in wrong position	Move selector switch to correct position for application.
	Mix too thick	Add water to thin material. Use Material Thickness Gauge.
	Loose fittings	Check and retighten all fittings.
	Plugged gun	Relieve Pressure , page 6. Remove gun from hose. Clean gun.
	Pump hose worn out	Replace hose. Recommended hose replacement - once every year.
	Pump cold	Move pump to warm room and allow it to warm up or run hot water through sprayer.
Material runs out of bottom of sprayer	Pump hose worn out	Replace hose.
	Loose fittings	Check and retighten all fittings.
No air from compressor	Gun air valve closed	Open gun air valve.
	Low voltage	Check extension cord length and gauge. Replace if different than recommended. Refer to Grounding and Electrical Requirements, page 6.
	Gun needle plugged	Clean needle and retry.
	Worn compressor	Replace compressor. Contact a qualified Graco Service Center.
	Lines not connected	Check all quick disconnect connections to gun and hoses.
	Damaged hose	Replace hose.

Problem	Cause	Solution
Speed of application slow or slower	Material too thick	Thin material.
	Nozzle too small	Change nozzles to a larger size. See Operation manual 311768.
	Too much air being used.	Partially close gun air valve to reduce air flow.
	Pump hose worn	Replace hose.
	Plugged or dirty gun	Relieve Pressure, page 6. Clean gun.
	Kinked hose	Unkink hose.
	Gun adjustment set too low	Increase flow adjustment with flow adjustment nut.
	Too many items on same circuit	Unplug other items from circuit.
	Extension cord too long or wrong gauge	Use a different extension cord. Refer to Grounding and Electric Requirements, page 6.
Intermittent flow/sputtering	Hopper connection not tight	Check gasket. Tighten connection.
	Debris in system	Clean system.
Quick disconnect does not stay connected.	Dirty or corroded fitting	Clean thoroughly. Soak in oil. Apply a few drops of light oil.
Gun will not shut off	Worn nozzle or needle.	Relieve Pressure, page 6. Replace worn parts.
	Debris in needle passage	Relieve Pressure, page 6. Clean.
Fluid leaking at Flow Adjustment Nut	Damaged seal.	Relieve Pressure, page 6. Replace seal.
Fluid leaking out of either plug	Missing or damaged o-rings	Relieve Pressure, page 6. Replace o-rings.
	Gun damaged	Replace gun.
Needle adjustment won't adjust	Dirty threads	Clean threads.
	Nozzle not on gun	Put nozzle on gun.

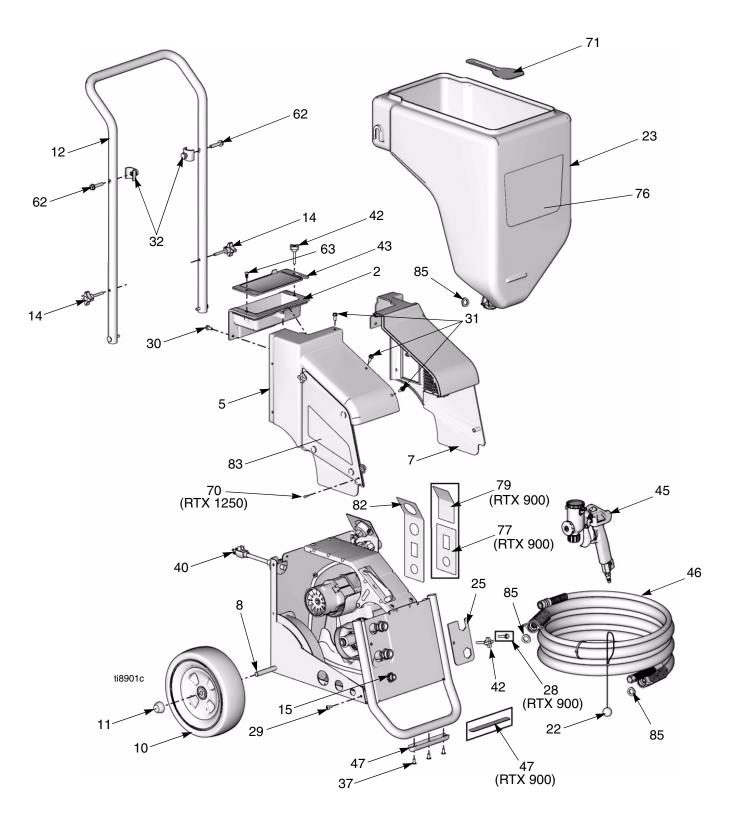
Wiring Diagram



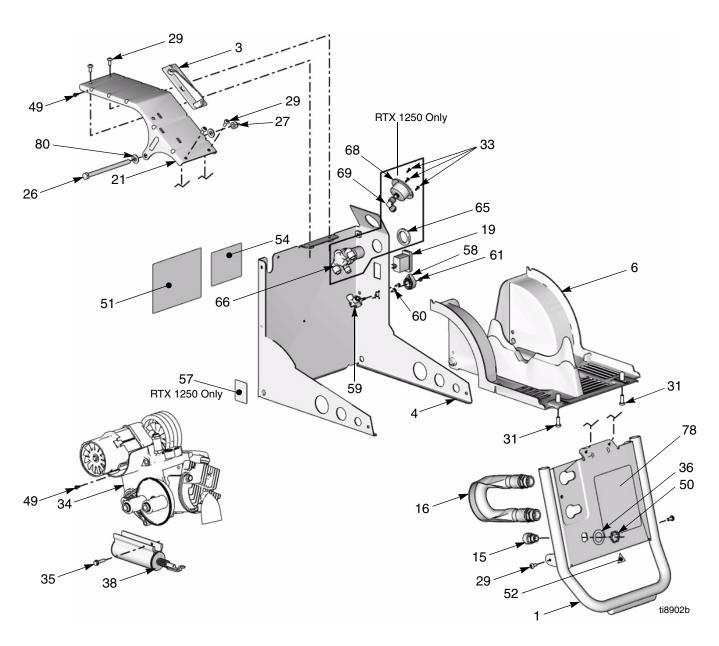
Air Diagram



PartsModels 254974 and 254975



PartsModels 254974 and 254975



Parts

Models 254974

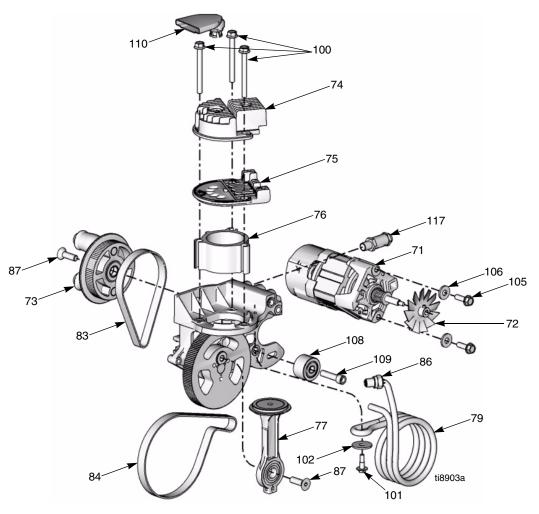
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	288386	PLATE, front, RTX	1	43	15D561	COVER, tool tray	1
2	15J600	TOOLBOX	1	45	288628	GUN, spray	1
3	15H069	SUPPORT, hopper, RTX	1	46	234147	HOSE	1
4	288384	FRAME, back, RTX (painted)	1	47	120759	PAD, non-slip, foot	1
5	288350	COVER, shroud; RTX 900	1	48	103473	STRAP, tie, wire	1
6	277319	SHIELD, bottom	1	49	115498	SCREW, mach, slot hex wash hd	2
7	288351	COVER, shroud; RTX 900	1	50	104227	NUT, lock	1
8	15J670	AXLE	1			LABEL, warning	1
10	115095	WHEEL, 9 in.	2			LABEL, caution	1
11	112612	CAP, hub	2	53		TUBE, air	1
12	288314	HANDLE	1			LABEL, instruction	1
14	15H641	KNOB	2	55		TUBE, air, .250	1
15	288336	FITTING, bulkhead, assembly	1	56		TUBE, air, .250	1
16	288623	HOSE, pump, (Roto-Flex [™])	1	58		KIT, repair, knob	1
19	120660	SWITCH	1	59	288757	KIT, repair, regulator	1
21	15H910	BRACKET, pump, RTX	1			(includes 59, 60)	
22	15C090	GAUGE, thickness, fluid	1	60	120744		2
23	288093	HOPPER	1	61		NUT, acorn	1
25	288515	PLATE, support, RTX (painted)	1	62	15C753	SCREW, machine, hex	2
26	105240	SCREW, cap hex hd	1			washer head	
27	113981	NUT, lock, high tensile	1	63	111831	SCREW, cap, skt, button hd	1
28	120444	SCREW	1	71		GUARD, burp	1
29	117630	SCREW, torx, tri lob	6	76		LABEL, hopper, RTX 900	1
30	117633	SCREW, slot hex wash hd	2 5	77		LABEL, control, RTX 900	1
31	120771	SCREW, mach, pnh	5	78		LABEL, front, RTX 900	1
32	15H605	HANGER	2	79		LABEL, shroud, RTX 900	1
34	288856	COMPRESSOR, pump assembly	1	80		WASHER, belleville	2
35	120236	SCREW, shoulder	1	84		TUBE, air, .250 OD	1
36	120731	WASHER, flat	1	85	115099	GASKET	3
38	289591	CYLINDER, RTX	1				
40	15J758	CORD, power	1	$\triangle A$	dditional v	varning labels are available at no cost	
41		FITTING, elbow, plug-in	1				
42	15J862	KNOB, 1/4-20, 4 prong	1				

Parts

Models 254975

Ref	Part	Description	Qty	Ref	Part	Description	Qty
1	288386	PLATE, front, RTX	1	47	15K049	ISOLATOR, foot	1
2	15J600	TOOLBOX	1	49		SCREW, mach, slot hex wash hd	2
3	15H069	SUPPORT, hopper, RTX	1	50		NUT, lock	1
4		FRAME, back, RTX (painted)	1			LABEL, warning	1
5		COVER, shroud	1			LABEL, caution	1
6	277319	SHIELD, bottom	1	53		TUBE, air	1
7	288382	COVER, shroud (painted)	1	54		LABEL, instruction	1
8	15J671	AXLE, RTX 1250	1	55		TUBE, air, .250 OD	1
10	115094	WHEEL, 10	2	56		TUBE, air, .250 OD	1
11	112612	CAP, hub	2			LABEL, warning	1
12	288314	HANDLE, RTX (painted)	1	58		KIT, repair, knob (includes 58, 61)	1
14	15H641	KNOB	2	59	288757		1
15	288336	FITTING, bulkhead, assembly	1			(includes 59, 60)	
16	288623	HOSE, coupled	1	60		SCREW, mach, pnh	2
19	120660	SWITCH	1	61		NUT, acorn	1
21	15H910	BRACKET, pump, RTX	1	62		SCREW, machine, hex washer head	2
22	15C090	GAUGE, thickness, fluid	1	63		SCREW, cap, skt, button hd	1
23	288265	HOPPER	1	65		NUT, regulator	1
25	288515	PLATE, support, RTX (painted)	1	66		REGULATOR, air, 1/8 in. npt	1
26		SCREW, cap hex hd	1	68		GAUGE, pressure	1
27	113981	NUT, lock, high tensile	1	69		FITTING, elbow	1
29		SCREW, torx, tri lob	6	70		SCREW, mach, pnh	1
30	117633	SCREW, slot hex wash hd	3	71		GUARD, burp	1
31	120771	SCREW	5	76		LABEL, hopper, RTX1250	1
32		HANGER	2	78		LABEL, front, RTX 1250	1
33	115494	SCREW, mach, phillips, pan hd	3	80		WASHER	2
34		COMPRESSOR, pump assembly	1	81		TUBE, air, .250 OD	1
35	120236	SCREW, shoulder	1	82		LABEL, control, RTX1250	1
36	120731	WASHER, flat	1	83		LABEL, side panel, RTX1250	1
37	120411	RIVET, blind	3	84		TUBE, air, .250 OD	1
38		CYLINDER, RTX	1	85	115099	GASKET	3
40	15J758	CORD, power	1				
42	15J862	KNOB, 1/4-20, 4 prong	3				
43	15D561	COVER, tool tray	1	\triangle A	aditional v	varning labels available at no cost.	
46	234147	HOSE	1				
48	103473	STRAP, tie, wire	1				

PartsCompressor 288856 & 288651



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
	288856	KIT, repair, compressor, complete	•	79	288614	KIT, repair, cooler	1
		(includes all items) RTX 900				(includes 79, 86)	
	288651	KIT, repair, compressor, complete		83	120234	BELT	1
		(includes all items) RTX 1250		84	120233	BELT	1
	288612	KIT, repair, compressor, rebuild		86	120245	FITTING	1
		(includes 100, 74, 86, 75, 76,		87	120204	SCREW, mach, hex flat head	2
		77, 87)		95	120593	SCREW, mach, torx pan hd	3
71	288613	KIT, repair, motor, universal, 120v	1	100	120229	SCREW, hex flange	3
, ,	200010	(includes 71, 84, 105, 106)	•	101	118890	SCREW, shoulder	1
72	120466	FAN, repair, motor	1	102	120659	WASHER, flat	1
73	288616	KIT, repair, pulley, w/rollers	i	105	260215	SCREW, hex hd	2
, 0	200010	(includes 73, 83, 87)	•	106	100023	WASHER, flat	2
74	288746	KIT, repair, head, compressor	1	108	288611	KIT, repair, idler (includes 108, 84)	1
74	200740	(includes 74, 75)	'	109	104272	SCREW, cap, sch	1
75	288610	KIT, repair, plate, valve	4	110	15H940	FITTING	1
75 76	200010	CYLINDER, compressor	1	117		VALVE, pressure relief	1
70 77	288609	KIT, repair, piston/cylinder	1		120257	RTX 900 Models	
11	200009		ı			(compressor 288856)	
		(includes 75, 76, 77, 87)			120617	RTX 1250 Models	
						(compressor 288651)	

Technical Data

Main unit power requirements Maximum fluid working pressure Maximum air working pressure Compressor specifications Compressor air displacement Generator required **Electric Motor** Power Cord

Material hopper capacity

Maximum delivery with texture

Dimensions: RTX 900

Length Width Height

Weight (includes hose and gun)

Dimensions: RTX 1250

Length Width Height

Weight (includes hose and gun)

Wetted parts Sound data

Sound pressure level* Sound power level** Storage Temperature Range **Operating Temperature Range**

Gun:

Maximum Working Pressure Air Maximum Working Pressure **CFM Rating**

Weight

* Measured while spraying at 1 m

** Measured per ISO-3744

120 Vac, 60 Hz, 15A, 1 phase

70 psi, (4.9 bar) 50 psi, (3.5 bar)

Universal motor thermally protected, oil-less

4.0 scfm at 45 psi 3500W minimum

Universal AC 14 Amp 1.5 Hp 16 AWG, 3-wire, 25 ft Model 254974: 8 gallons Model 254975: 10 gallons Gun material hopper: 3/4 gallon

RTX 900 - 0.9 gpm (3.4 lpm) RTX 1250 - 1.25 gpm (4.7 lpm)

23 in. (584 mm) with handle

18 in. (456 mm) 40 in. (1016 mm)

60 lb (27.2 kg)

24 in. (609 mm) with handle

20 in. (508 mm) 41 in. (1041 mm)

65 lb (29.5 kg)

brass, aluminum, plastic

83.2 dB(A) 97.5 dB(A)

35°F - 160°F (1.6°C - 71°C) 40°F - 115°F (4°C - 46°C)

70 psi (4.9 bar) 100 psi (6.895 bar) 3.5 - 11 CFM 1.1 lb (500 g)

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 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.

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 by an authorized Graco distributor 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.

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Graco Information

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

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