Operation, Parts

RTX5000 & RTX5500 Texture Sprayers



For water-Based Materials Only.

Models: RTX5000PI, RTX5000PX, RTX5500PI & RTX5500PX 100 psi (6.9 bar, 0.69 MPa) Maximum Working Pressure



Important Safety Instructions

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

Related Manuals Gun – 3A3373



Use only genuine Graco replacement parts. The use of non-Graco replacement parts may void warranty.

PROVEN QUALITY, LEADING TECHNOLOGY.

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Models

	VAC	Model		
		RTX5000pi	17H575	
	120	RTX5000pi Rental	17H576	
	USA	RTX5000pi Rental HD	17K302	
		RTX5000px	17H579	
	240 USA	RTX5500px	17H581	
		RTX5000pi	17L288	
		RTX5000pi Rental	17L289	
Intertek 110474 Certified to CAN/CSA C22.2 No. 68 Conforms to UL 1450	120 USA	RTX5000px	17L292	
		RTX5500pi	17H577	
EHE	230 Europe Multi	RTX5500px	17H580	
^	230	RTX5500pi	17H578	
	LA Asia	RTX5500px	17K680	

Warnings

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 symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

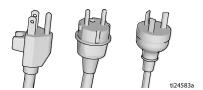
WARNING



GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having 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.

- Improper installation of the grounding plug is able to result in a risk of electric shock.
- When repair or replacement of the cord or plug is required, do not connect the grounding wire to either flat blade terminal.
- The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.
- Check with a qualified electrician or serviceman when the grounding instructions
 are not completely understood, or when in doubt as to whether the product is
 properly grounded.
- Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.
- This product is for use on a nominal 120V or 230V circuit and has a grounding plug similar to the plugs illustrated below.



- Only connect the product to an outlet having the same configuration as the plug.
- Do not use an adapter with this product.

Extension Cords:

- Use only a 3-wire extension cord that has a grounding plug and a grounding receptacle that accepts the plug on the product.
- Make sure your extension cord is not damaged. If an extension cord is necessary
 use 12 AWG (2.5mm²) minimum to carry the current that the product draws.
- An undersized cord results in a drop in line voltage and loss of power and overheating.

MARNING



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 or clean with flammable materials. Use water-based materials only.
- Use equipment only in well ventilated area.



- Sprayer generates sparks. When flammable liquids are used near the sprayer, keep sprayer at least 20 feet (6.1 meters) away from explosive vapors.
- Keep work area free of debris, including solvent, rags and gasoline.
- Ground all equipment in the work area. See **Grounding** instructions.
- Keep a working fire extinguisher in the work area.



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 material or air 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.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you
 are using it.



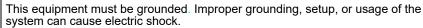
BURN HAZARD

Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:

Do not touch hot fluid or equipment.



ELECTRIC SHOCK HAZARD





- Turn off and disconnect power cord before servicing equipment.
- · Connect only to grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on power and extension cords.
- · Do not expose to rain. Store indoors.

Warnings

*△***WARNING**



PRESSURIZED EQUIPMENT HAZARD

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

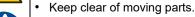


- Follow the Pressure Relief Procedure when you stop spraying/dispensing and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.



MOVING PARTS HAZARD

Moving parts can pinch, cut, or amputate fingers and other body parts.



- · Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.



PLASTIC PARTS CLEANING SOLVENT HAZARD

Many solvents can degrade plastic parts and cause them to fail, which could cause serious injury or property damage.



- Use only compatible water-based solvents to clean plastic structural or pressure-containing parts.
- See Technical Data in this and all other equipment instruction manuals. Read fluid and solvent manufacturer's Safety Data Sheet (SDS) and recommendations.



PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

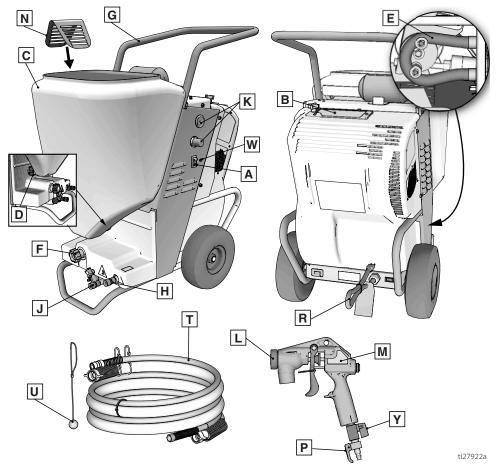
- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

Component Identification

Component Identification



Α	ON/OFF Switch
В	Tool Box
С	Material Hopper
D	Hopper Connect/Disconnect
Е	RotoFlex™ II Pump
F	Pump Hose Outlet
G	Handle
Н	Air Hose Outlet
J	Auxiliary Air Hose Inlet (px models
	only
K	Fluid Flow Regulator and Pressure
	Gauge

L	Gun Nozzle
М	Gun
N	Burp Guard
Р	Prime Valve
R	Power Cord
Т	Hose - 25-ft (7.6 m)
U	Material Thickness Gauge
V	Cleaning (Sponge) Ball
W	ProGuard
Υ	Air control valve
	Model/Serial Tag (Not shown, located on bottom of unit.)

Preparation

Preparation

Pressure Relief Procedure



Follow the Pressure Relief Procedure whenever you see this symbol.



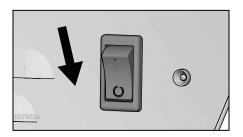






This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid or splashed fluid follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced.

Turn ON/OFF switch to the **OFF**position. Wait 7 seconds for power to
dissipate.



- 2. Unplug sprayer.
- 3. Turn fluid regulator all the way down.
- Aim gun into hopper or waste bucket and trigger the gun until all air and material pressure is relieved.

Grounding









The equipment must be grounded to reduce the risk of static sparking and electric shock. An electric or static spark can cause fumes to ignite or explode. An improper ground can cause electric shock. A good ground provides an escape wire for the electric current.

This sprayer includes a ground wire with an appropriate ground contact. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician.

Power Switch

A selector switch on the sprayer allows you to operate the sprayer on either a 10A/240V 15A120V or 16A/240V or 20A120V circuit.

120V Sprayers

Select 15A or 20A depending on your circuit rating.

240V Sprayers

Select 10A or 16A depending on your circuit rating.

Extension Cords

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.

NOTE: Lighter gauge or longer extension cords may reduce sprayer performance.

Generator Requirements

7500 W (7.5 kW) minimum.

Hose Size and Length

The system comes with a 25 ft (7.6m) long hose set consisting of a material hose 1 in. or 1.25 in. I.D. and a 3/8 in. I.D. air hose.

SoftStart/Smart Start™ System

"Soft Start" vs. "Smart Start"

- "Smart" refers to the function where the motor starts and stops when the trigger is pulled and released. This keeps the sprayer at full operating pressure and allows the sprayer to spray immediately when the gun is triggered.
- "Soft" refers to the function where the sprayer slowly starts the pump. This prevents a large "splotch" of material from being discharged from the gun when trigger is pulled after the sprayer has sat idle for a period of time.

Soft Start

The Soft Start System is controlled by motor power and an air cylinder. When pressurized, the air cylinder pushes the rollers into the peristaltic pump pushing material through the pump. When the motor shuts off, a solenoid valve relieves the pressure in the air cylinder causing the rollers to disengage from the peristaltic pump. When the motor starts again there is a time delay while the air cylinders charge and move the rollers into the pump this is the "Soft Start".

Smart Start

The Smart Start System is controlled by compressed air in the tanks and lines. When gun is triggered, air flows through the lines and opens a flow switch. There is also another pressure switch that senses when the compressed air system is at operating pressure. This second pressure switch allows the sprayer to start immediately when the sprayer is turned ON charging the compressed air system to full pressure. This method keeps the compressed air system at operating pressure if there is a small air leak in the system.

Setup









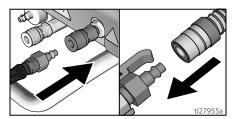
NOTICE

- Do not store sprayer under pressure.
- Do not allow material to dry inside pump, hoses, gun or spray system. This may cause pump to fail.

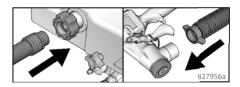
When unpacking sprayer for the first time or after long term storage perform setup procedure.

 Connect one end of air hose to sprayer air outlet quick connect and to gun air inlet quick connect.

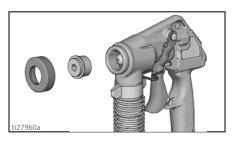
When auxiliary air is used connect one end of air hose to lower sprayer air outlet quick connect and to gun air inlet quick connect. Connect auxiliary air source to male coupler on sprayer.



 Connect one end of material hose to material outlet and the other end to gun material inlet. Firmly tighten connections.



 Install spray nozzle. See Recommended Nozzle & Disc Selection Charts, page 15. Pulling trigger when installing nozzle makes assembly easier.

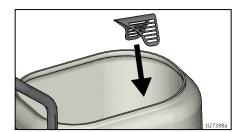


- Plug power cord into a properly grounded outlet.
- 5. Make sure burp guard is installed.





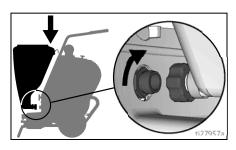
Before adding material to the hopper, install the burp guard. When only a small amount of material remains in the hopper, the burp guard prevents material from shooting out when the unit is turned off. This material could splash in the operator's eyes or on skin, or into the air.



Material Hopper

Install Hopper

 Position hopper outlet over fitting as far as it will go.

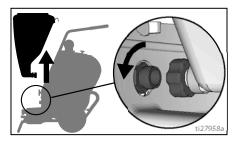


2. Hand tighten fitting.

Remove Hopper

Material hopper can be removed for easy cleaning.

 Loosen outlet fitting. Fittings are handtightened and should not require tools to loosen.



Lift material hopper straight up, off the unit.

Mixing Material











NOTE: Correct material mixture is essential. The pump will not operate if the mixture is too thick. Use water-based materials only.

- Mix the material in a separate container before pouring it into hopper.
- Use Material Thickness Gauge to determine if mixture is thin enough to spray.
- The Material Thickness Gauge will only determine if the material is thin enough to pass through the pump. For some applications or for higher speed spraying, your mixture may need to be thinner.
- If thicker materials are desired, test pumping performance first. Then spray a test pattern.
- For best results, do not use partial bags of material.
- Mix the material and water in a separate container.

Dry Mix - 40 lb (18 kg) bag

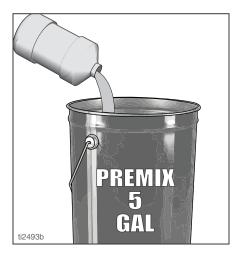
Carefully mix texture material and water according to manufacturer instructions on bag.



Setup

Premix

Slowly add approximately 2 to 4 quarts (1.9 to 3.8 liters) of water to a 5 gallon (18.9 liter) bucket of premix.



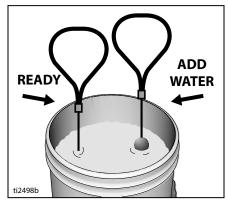
Agitate to mix, using a half-inch, variable speed drill with mixing paddle, to a smooth, lump-free consistency.



- 3. Allow ceiling texture to set for at least 15 minutes. Then remix prior to use.
- After texture material is thoroughly mixed, gently set ball end of Material Thickness Gauge on surface of mixture.

NOTE: For an accurate test, be sure gauge is completely dry and clean every time it is used.

 Observe the ball on the material. When the material is thin enough to spray the ball will sink completely into the mixture within 10 seconds.



6. If the ball does not sink completely into the mixture within 10 seconds, add more water, agitate and try test again.

For the best spraying experience always follow the Setup and Operation process. This ensures that the material and sprayer are ready to spray resulting in a successful project.







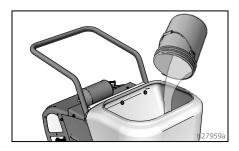




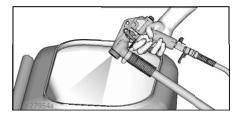
Wetting Hose

Wet inside of hose before each use to flush out sediment and prevent texture material from packing out hose.

1. Pour one gallon (3.8 liters) of water into the material hopper.



- 2. Open gun air control valve.
- Turn ON/OFF switch to **ON** position. Aim gun into hopper and trigger gun to circulate water for a few minutes to wet inside of material hose.



 Trigger gun into waste pail until hopper no longer contains water and all water is removed from hose and pump system.

NOTICE

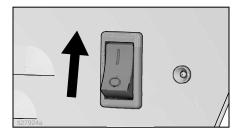
To prevent pump damage, before adding material or starting unit in cold weather, run warm water through the pump.

System Priming

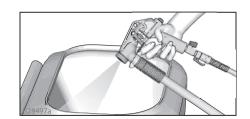
The system recognizes air flow at the gun when detected by an air flow sensor located inside the sprayer.

Preferred Method

- 1. Turn ON/OFF switch to **ON** position.
- Open gun air control valve slightly, allowing a small amount of air to flow with material through gun. This automatically delivers material pressure and flow.



3. Aim gun into hopper and trigger the gun.



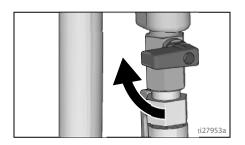
Alternate Method (Using Prime Valve)

Use this method when air flow with material through gun is not desired

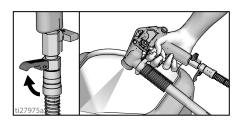
- 1. Turn ON/OFF switch to **ON** position.
- 2. Turn fluid flow regulator up as necessary.



3. Close gun air control valve.



4. Open Prime Valve to start flow. Aim gun into hopper and trigger the gun.



NOTICE

Excessive or prolonged use of Prime Valve can cause material to back up into gun air passages, causing blockage and/or gun air control valve failure.



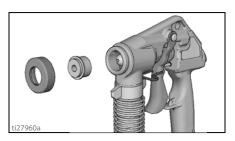




Air hose fittings can get hot. Allow sprayer to cool down 15 minutes before removing air hose.

Texture Spraying

- Fill hopper with prepared texture material.
- Install nozzle or nozzle and disc. See Recommended Nozzle & Disc Selection Charts, page 15.



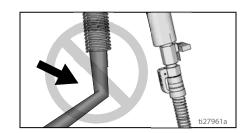
3. Open gun air control valve. Make certain prime valve is closed.

NOTICE

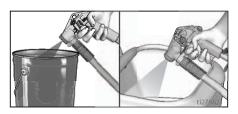
To avoid material pack-out in needle, do not allow material to flow out of gun when air control valve is closed for a sustained amount of time.

If material gets in needle or gun air passages, flush with water immediately.

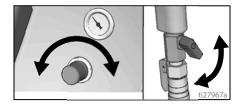
 Inspect 25 ft. material hose for kinks which could restrict fluid flow.



- 5. Follow Mixing Material, page 11.
- Trigger gun into a pail. When texture material appears at nozzle, move gun to hopper and circulate until there is a solid stream of texture material.



 For proper spray pattern and pump and gun adjustments, see Adjusting the System, page 16. To achieve uniform spray pattern, adjust air control valve and flow adjustment nut on gun. If you do not achieve the desired pattern, change nozzles, see Recommended Nozzle & Disc Selection Charts, page 15.



Recommended Nozzle & Disc Selection Charts

Nozzle

Application	Nozzle Size ²	Air Volume ¹	Application	Nozzle Size ²	Air Volume ¹
Fog	3 mm	high	Knockdown	6-12 mm	low
Simulated	4 mm	medium to high	Textured	8-12 mm	high ³
Acoustic			Elastomerics		
	6 mm		Plastics	8-10 mm	high ³
	8-10 mm		EIFS	8-12 mm	high ³
Orange peel	3-4 mm	medium to high	Stucco	10-12 mm	high ³
	4-8 mm		Knockdown	6-12 mm	low
Splatter coat	6-8 mm	low to medium			
	6-10 mm				
11					

¹Control air volume with gun air control valve.

WideTex™ Disc

Application	WideTex Disc		Nozzle (mm)	Air Volume
	Standard	Hardened		
Simulated Acoustic - Fine	W6	W6H	4	high
- Medium	W8	W8H	6	high
- Coarse	W10	W10H	8- 10	high
Fog	W4	W4H	3	high
Orange peel	W4 or W6	W4H or W6H	3 - 8	medium to high
Splatter coat	W6 or W8	W6H or W8H	6 - 10	low to medium
Knockdown	W6 or W8	W6H or W8H	6 - 8	low

²For more material volume try a larger orifice tip.

³Some materials may require the addition of external air to improve production rate. Use External Air Hookup Kit 287328.

Adjusting the System

Sufficient fluid output (volume and pressure) and good atomization is a balance of atomizing air, material thickness/material flow and nozzle selection. Achieving the correct balance for your application requires experimentation to achieve desired results. Keep in mind these important points when adjusting gun:

- To select correct nozzle for your applications, consider size of aggregate in material and coarseness of spray pattern. Remember the larger the nozzle, the larger the pattern. See Recommended Nozzle & Disc Selection Charts, page 15.
- Start sprayer with gun air control valve completely open. If needed, slowly close gun air control valve until you get a good spray pattern. Use minimum amount of air at spray gun to achieve proper spray pattern and to minimize bounce back.
 - + Test spray pattern on cardboard. Hold gun 18 to 30 in. (45.7 to 76.2 cm) from surface. Use this spraying distance for most applications.
 - + When spraying with a nozzle only overlap each stroke 50% in a circular motion.
 - + When spraying with a nozzle and disc overlap each stroke 50% in a linear motion.
- Material flow is controlled with the fluid flow regulator knob and displayed on the gauge. Gun air flow is regulated using air control valve located on the gun handle.
 - + Opening air control valve increases air flow through gun, which decreases texture material flow through pump.
 - + Closing air control valve decreases air flow through gun, which increases texture material flow through pump.

For Less Material Flow

Try one or a combination of these methods:

- Open air control valve.
- Turn gun flow adjustment nut to decrease flow, counter-clockwise.
- Use smaller nozzle.

For More Material Flow

Try any one or a combination of these methods:

- Close air control valve.
- Turn gun flow adjustment nut clockwise to increase flow.
- Use thinner material mixture.
- Use a larger nozzle.

Preventing Material Surge at Gun Trigger

Pressure will build up in the system when you stop triggering the gun. To prevent material surge at initial gun triggering:

- Point gun away from surface you are spraying when you first pull trigger.
- When you first start to spray, hold the gun away from the surface and gradually work your way closer to it.
- Keep gun moving.
- After you begin spraying, trigger the gun as little as possible.

For Continuous Spraying

Use trigger lock to hold trigger open and reduce fatigue.

Check Material Consistency Periodically

Check and thin material as needed to maintain proper consistency. The material may thicken as it sits and slow down production. Agitate periodically.

Smart Start/Soft Start Operation

Smart Start

Sprayer will start under the following conditions:

- A new sprayer is plugged in and ON/OFF switch is turned ON.
- Gun is triggered and air control valve is open far enough.
- There is a small leak in the system and the pressure drops below the pressure switch setting. This may appear to be random operation.
- When a bleeder gun is used.
- When the pressure is relieved by triggering the gun while the sprayer is OFF and then turned back ON.
- Prime valve is opened.
- There is a hose failure (leak) in the twin line hose.

Soft Start

- The easiest way to tell if the Soft Start System is functional is to spray material.
- The system is operating properly when a small amount of material initially comes out of the gun when triggered and the volume of material slowly increases to full spray.

NOTE: Motor runs when gun is triggered. Sprayer is designed to stop pumping when gun trigger is released.

ProGuard

This sprayer protects itself against high and low voltage. If the sprayer is plugged into a power source that is too low or too high the sprayer will stop operating. This light has three different states of operation: ON, blink, and OFF.

Error Code	Definition
	Light is ON Unit is powered and operating normally.
***	Light is Blinking Voltage supply is too low or too high for sprayer and will not run until it is plugged into a good power supply.
•	Light is OFF No power to sprayer, or there is another error other than the voltage supply.

NOTICE

The sprayer handle is for pushing or pulling the sprayer only. Do not use sprayer handle for lifting the unit, sprayer damage may occur.

Shutdown and Cleanup

Shutdown and Cleanup







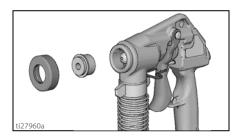


NOTE: Keep pump and hose clean when switching between materials. A dirty pump can release particles of texture into the finish.

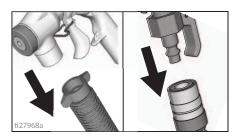
- To increase pump life, life turn ON/OFF switch OFF when not spraying.
- Before removing material hose, perform Pressure Relief Procedure, page 8.
 Make certain there is no material in the hose.
- To keep sprayer in good operating condition, always clean it throughly and prepare it properly for storage.

When you have finished spraying:

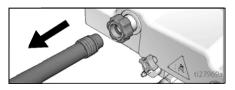
- Drain remaining material into bucket until most of texture material is out of the hopper.
- 2. Fill material hopper with clean water.
- Remove nozzle from gun. Trigger gun into bucket until most of texture mix is pumped out. Allow water to flow through gun until gun is clean.



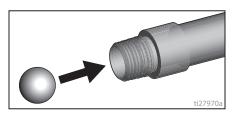
- Open gun air control valve, forcing air through nozzle to clear out any remaining material.
- 5. Disconnect air line and material hose from gun.



Disconnect material hose from sprayer.



Insert sponge ball in material hose.



- 8. Connect material hose to sprayer.
- 9. Pour a couple of gallons (8 liters) of clean water in the hopper.
- 10. Place the end of the material hose in a waste bucket
- 11. Turn ON/OFF switch to **ON** position. Wait for sprayer to power up.
- Circulate water through sprayer until sponge ball comes out of the hose.
- 13. Retrieve sponge ball and clean with clear water.
- 14. Spray water into a waste bucket to empty material hopper.

15. Turn ON/OFF switch to **OFF** position.

Shutdown and Cleanup

- 16. Open gun air control valve. Perform **Pressure Relief Procedure**, page 8.
- Finish cleaning all components. Be sure to keep air passages in needle clean and free of material. Clean inside of gun.

NOTE: A soft brush can be used to loosen dried on material.

Gun

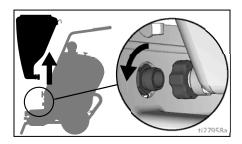
To ensure proper gun function for future use, remove and clean needle components and apply a few drops of light oil to:

- Air hose quick connect
- Material hose connections
- Air shutoff needle material needle See Gun Manual for Needle removal/repair.

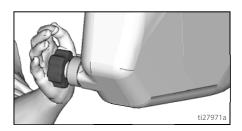
Clean Material Hopper

Material hopper can be removed for easy cleaning.

1. Loosen bottom fitting



- Lift material hopper straight up, off the unit.
- 3. Plug opening on bottom of material hopper with your hand.



- Take hopper to cleaning area for cleaning.
- After cleaning material hopper, position it on sprayer aligning fitting to sprayer.
- 6. Hand tighten fitting.

NOTICE

Water or material remaining in unit when temperatures are below freezing can damage motor and/or delay pump startup. Do not allow unit to freeze.

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

- Remove material hose from sprayer.
- Remove pump hose from sprayer. Empty hose and reinstall.
- Remove hopper and drain.

Maintenance

Maintenance

Routine maintenance is important to ensure proper operation of your sprayer. Maintenance includes performing routine actions which keep your sprayer in operation and prevent trouble in the future.











Component	Task	Interval
Sprayer	Inspect motor shield vents for blockage.	Daily or each time you spray
Hoses	Check for wear and/or damage.	Daily
	Drain system of all water.	After each use
Air and material hose connections	Add a few drops of light oil.	Daily
RotoFlex HD pump	Flush	Daily
	Check thread connections for wear.	Replace pump hose upon failure
Gun	Clean	After each use
	Add a few drops of light oil to needle under trigger.	After each use

Protect the internal drive parts of this sprayer from water. Openings in shields allow cooling of mechanical parts and electronics inside. If water gets into these openings, the sprayer could malfunction or be permanently damaged.

Texture Hoses

Check hose for damage every time you spray. Do not attempt to repair hose if hose jacket or fittings are damaged. Do not use hoses shorter than 25 ft (7.6 m).

Tips

- Always clean tips with a soft brush after spraying.
- Tips may require replacement depending on abrasiveness of texture.

Troubleshooting

Troubleshooting



- Follow Pressure Relief Procedure, page 8, before checking or repairing.
- 2. Check all possible problems and causes before disassembling the unit.

Problem	Cause	Solution
Sprayer won't run	Power switch not on	Turn switch on.
oprayor wontruit	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 7500 watt or larger generator. Refer to Generator Requirements, page 8.
	Circuit breaker tripped	Reset breaker.
Pump won't pump material	Air lock	Open air control valve on gun.
	Mix too thick	Add water to thin material. Use Material Thickness Gauge.
	Loose fittings	Check and retighten all fittings.
	Plugged gun	Perform Pressure Relief Procedure, page 8. 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	Pump hose worn out	Replace hose.
sprayer	Loose fittings	Check and retighten all fittings.
No air from compressor	Gun air control valve closed	Open gun air control valve.
	Low voltage	Check extension cord length and gauge. Replace if different than recommended. Refer to Grounding and Electrical Requirements, page 8.
	Gun needle plugged	Clean needle and retry.
	Worn compressor	Replace compressor. Contact a qualified Graco Service Center.
	Loose belt	Tighten belt by adjusting compressor
	Broken belt	Replace belt
	Lines not connected	Check all quick disconnect connections to gun and hoses.
	Damaged hose.	Replace hose.

Troubleshooting

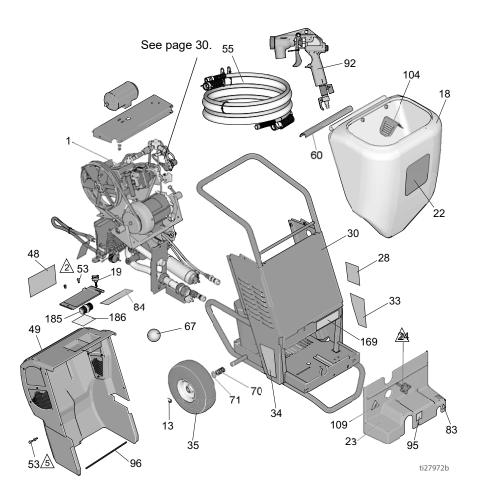
Problem	Cause	Solution
Speed of application slow or	Material too thick	Thin material.
slower	Nozzle too small	Change nozzles to a larger size. See Recommended Nozzle Selection Chart, page 15.
	Too much air being used.	Partially close gun air control valve to reduce air flow.
	Pump hose worn	Replace hose.
	Plugged or dirty gun	Perform Pressure Relief Procedure, page 8. 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 Elec- tric Requirements, page 8.
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	Perform Pressure Relief Pro- cedure , page 8. Replace worn parts.
	Debris in needle passage	Perform Pressure Relief Procedure, page 8. Clean.
Fluid leaking at Flow Adjust- ment Nut	Damaged seal	Perform Pressure Relief Procedure, page 8. Replace seal.
Needle adjustment won't	Dirty threads	Clean threads.
adjust	Nozzle not on gun	Put nozzle on gun.
Power switch is on and sprayer is plugged in, but motor does	Air control valve on gun is closed or not open enough	Open air control valve.
not run, and pump does not cycle.	Motor or control is damaged	Take sprayer to Graco authorized service center.
	Electric outlet is not providing power.	Try a different outlet or plug in something that you know is working to test outlet.
		Reset building circuit breaker or replace fuse.
	Extension cord is damaged.	Replace extension cord. See Grounding , page 8.
	Sprayer electric cord is damaged.	Check for broken insulation or wires. Replace electric cord if damaged.

Troubleshooting

Problem	Cause	Solution
Power switch is on and sprayer is plugged in, but motor does not run, and pump does not cycle. (cont'd)	Material and/or water is frozen or hardened in pump.	Unplug sprayer from outlet. If frozen do NOT try to start sprayer until it is completely thawed or you may damage the motor, control board and/or drivetrain.
		Make sure power switch is OFF. Place sprayer in a warm area for several hours. Then plug in powercord and turn sprayer ON. Slowly increase pressure setting to see if motor will start.
		If material is hardened in sprayer, pump or pressure switch may need to be replaced. Take sprayer to Graco authorized service center.
	Prime valve is plugged	Remove and clean prime valve.
	Gun is plugged.	Disassemble and clean gun.
Sprayer continues to run when	Pressure switch is damaged.	Replace pressure switch.
gun frigger is released.	Compressed air system leak.	Locate leak; check gun, twin line hose, or internal system. Reseal leaky fitting or replace hose.
	Flow switch is stuck.	Replace flow switch.
Sprayer does not start when gun is triggered.	Flow switch is stuck.	Replace flow switch.
Sprayer cycles ON and OFF	Pressure switch is damaged.	Replace pressure switch.
when trigger is released. or Sprayer cycles ON and OFF when gun is triggered.	Compressed air system leak.	Locate leak; check gun, twin line hose, or internal system. Reseal leaky fitting or replace hose.
5 55	Flow switch is stuck.	Replace flow switch.
	Check valve is damaged.	Replace check valve.

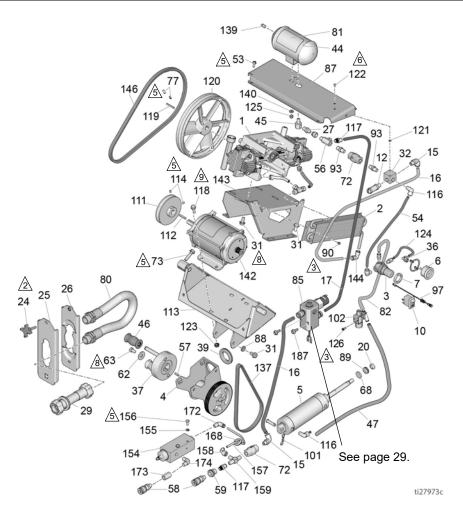
RTX5000, RTX5500 Sprayer Parts

Ref.	Torque
2	Hand tighten
<u>/</u> 5\	50-70 in-lb (5.7 - 7.9 N•m)



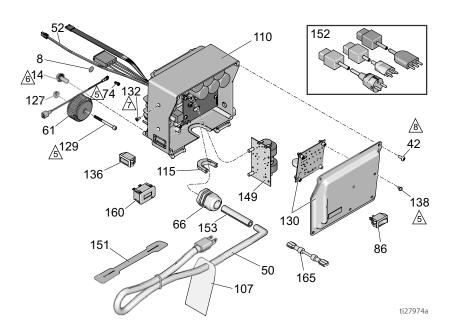
RTX5000, RTX5500 Sprayer (continued)

Ref.	Torque	Ref.	Torque	Ref.	Torque
\triangle	9-11 in-lb (1 - 1.2 N•m)	<u>/</u> 5\	50-70 in-lb (5.7 - 7.9 N•m)	<u></u>	10-14.5 ft-lb (13.5 - 19.7 N•m)
2	Hand tighten	<u>6</u>	40-45 in-lb (4.5 - 5.1 N•m)		
3	27-32 in-lb (3.1 - 3.6 N•m)	8	37.5-42.5 ft-lb (51 - 58N•m)		



RTX5000, RTX5500 Sprayer (continued)

Ref.	Torque	Ref.	Torque	Ref.	Torque
(A)	37.5-42.5 ft-lb (51 - 57.6 N•m)		200-230 in-lb (22.6 - 26 N•m)	8	40-45 in-lb (4.5 - 5.1 N•m)
5	15-20 in-lb (1.1 - 2.3 N•m)	\triangle	9-11 in-lb (1.0 - 1.2 N•m)	<u></u>	27-32 in-lb (3.1 - 3.6 N•m)



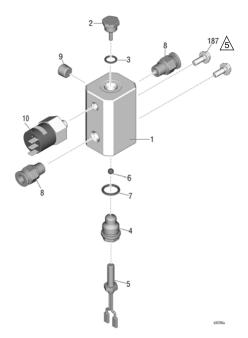
RTX5000, RTX5500 Sprayer Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	24S149	KIT, repair, compressor includes 31, 77, 119, 120,	1	42	16V095	SCREW, machine, self-tapping	4
2	24S154	146 KIT, repair, cooler	1	44	24S148	KIT, repair, accumulator includes 27, 45, 125,	1
_	240104	includes 90, 144, 166,	•	45	158962	139, 140 FITTING, elbow	1
		167, also includes 15, 19, 20, 21 found on page 29		46	287321	KIT, repair, roller	2
3	118844	REGULATOR, air	1	47 48▲	★ 15H841	TUBE, air, 1/4 LABEL, warning	1 1
4	17L033	KIT, repair, pump housing	1	49	17S091	ASSEMBLY, shield, rear	i
5	287323	CYLINDER, air includes	1	50	450070	CORD, power	
6	117720	20, 68, 89 GAUGE, pressure	1		15R876 17A242	17H581, 17K680 17H578	1 1
Ū	0	includes 36	-		16M836	17H577, 17H578,	1
7	115244	NUT, regulator	1		4711700	17H580	4
8 10	186620 120660	LABEL, symbol, ground SWITCH, rocker	1 1		17H708	17H575, 17H576, 17H579	1
12	120617	VALVE, pressure relief	1		15G958	CORD SET, adapter,	1
13	120211	RING, retaining	2		253103	17H578	1
14 15	117791 121141	SCREW, cap FITTING, elbow, swivel	1		255105	KIT, accessory, cordset, global, 17H577, 17H580	
16	*	TUBE, air, 3/8	1		17L032	17L288, 17L292,	1
17 18	★ 17P495	TUBE, air, 3/8	1 1	52	17H700	17L289, 20 amp CONNECTOR, electrical	1
10	177493	HOPPER, 15 gallon includes 60	1	53	117633	SCREW, slot, HWH	9
19	15D862	NUT, hand		54	*	TUBE, air, 1/4	1
20	118871	NUT, lock, 1/2-20	1	55	17L005	HOSE, texture, 2line 17H579, 17H580,	1
22	17J510	LABEL, hopper RTX5000px	1			17H581, 17K680	
	17K874	RTX5000pi		F.C	17J420	All other models	1
	17J511 17K313	RTX5000pi Rental RTX5500pi	1 1	56 57	116504 183401	FITTING, tee KEY, parallel	1 1
	17K313	RTX5500pr	i	58	116720	COUPLER, quick discon-	2
23	287348	SHIELD, front	1	E 0	104641	nect	1
24 25	108471 17J295	KNOB BRACKET, hose, outer	1 1	59 60	15D366	FITTING, bulkhead PAD, isolator	1
26	17J296	BRACKET, hose, inner	i	61	24S152	KIT, repair, choke	1
27	156823	FITTING, union, swivel	1	62	108851	includes 74, 127, 129 WASHER, plain	1
28 ▲ 29	17K674 118885	LABEL, warning HOSE, coupled	1 1	63	106276	SCREW, cap, hex head	i
30	17J684	FRAME, RTX, painted	1	66	116171	BUSHING, strain relief	1
31	112395	SCREW, cap, flange	12	67 68	113397 15D576	BALL, sponge, 30mm SPACER, crowned	2 1
32	17J681	head MANIFOLD, pneumatic	1	70	116411	SPRING, compression	2
33	170001	LABEL, right	•	71	116477	WASHER, flat, nylon	
	17K315	RTX5000pi	1	72 73	24S146 112785	KIT, repair, check valve SCREW, hex head	1 2
	17K321 17K316	RTX5000pi Rental RTX5000px	1 1	74	115498	SCREW, slot, HWH	1
	17K322	RTX5500pi	1	77	120087	SCREW, set, 1/4x1/2	2
2.4	17K323	RTX5500px	1	80 81	287314 17J933	HOSE, coupled, pump LABEL, smart start	1 1
34 35	17K324 17K405	LABEL, left WHEEL, pneumatic	1 2	82	*	TUBE, air, 1/4	i
36	120653	FITTING, push to con-	1	83▲		LABEL, caution	1
27	207255	nect	1	85	17Z245	KIT, repair, flow switch, Series A&B, See page 29	1
37 39	287255 127282	KIT, repair, roller GROMMET, rubber	1 1	86		SWITCH, rocker	
		, ,	•		120059	120V	1

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
87	126029 17J682	230V COVER, top, painted	1	140 142	110755 24S147	WASHER, plain KIT, repair, motor	2 1
88 89	118866 801012	WASHER, flat, thick GROMMET	5 1 2	4.40	47.1070	includes 111, 112, 114,118, 123, 137, 146	
90 92	103785 24S134	RIVET GUN, spray, texture INTERIOR, pi models	1	143 144	17J676 17J677	BRACKET. compressor FITTING, tube, 90° elbow	1
93	24S135 156971	EXTERIOR, px models FITTING, nipple, short	1 2	146 149	17J678 24Z000	BELT, VEE BOARD, filter, 17H577, 17H578, 17H580,	1
96 95	17K478	GROMMET, edge LABEL	1	151	121249	17K680 LOCK, cord, 17H577,	1
07	17L028 17L029	INTERIOR, pi models EXTERIOR, px models	1	153	15F480	17H578, 17H580 HOSE, strain relief,	1
97	17H703	HARNESS, wiring, with light	1	454	4714550	17H577, 17H578, 17H580	
101 102	117668	PIN, cotter KIT, repair, solenoid includes 126	1	154	17M550	VALVE, remote air, includes 15, 72, 155, 156, 158, 159, 172, 173,	1
	17K597 24S144	120V 230V	1 1	155	100016	174 px models WASHER, lock, px mod-	2
	17H705 16C394	BAFFLE, hopper LABEL, warning	1 2	156	100270	els SCREW, cap, hex head,	2
110	0.40.400	KIT, repair, control board includes 14, 115, 132, 136		157 158	★ C20350	px models TUBE, air, 1/4, px models FITTING, elbow, 90°, px models	1 1
111	24S126 24S127 15E588	120V 230V PULLEY	1 1 1	159 160	113548 246013	FITTING, tee, px models KIT, meter, hour, 17H576	1 1
112 113	117632 17L031	KEY, square, 3/16 FRAME, motor	1	165 169	17H648 17L084	WIRE, jumper, 17H581 LABEL, instructions,	1
114 115	100002 16T547	SCREW, set ADAPTER, cord	2 1	170	*	pump, install TUBE, air, 3/8	1
116 117	17L559 17J393	FITTING, tube, 90° elbow FITTING, tube, straight	1	171 172	113321	FITTING FITTING, elbow, tube	1 1
118 119	112586 17H649	SCREW, cap, hex head KEY, square, 5/32	4 1	173 174	100175 110249	COUPLING, pipe ADAPTER, male elbow	1 1
120 121	15E410 100020	PULLEÝ, fan WASHER, lock	1 2			90°	
122	110637	SCREW, machine, pan head	2	185 186	15E359 17X931	FITTING, nipple LABEL, info	1 1
123 124	110996 ★	NUT, hex, flange head TUBE, air, 1/4	4 1	187	114182	SCREW, mach, hex, flange	2
125 126 127	102040 17J525 127908	NUT, lock, hex SCREW, slot, HWH NUT, flange, 120V only	2 2 1	*	17Z227	KIT, tube, air <i>includes 16,</i> 17, 47, 54, 82, 124, 157, 170	1
129 130	107404 24S153	SCREW, cap, 120V only KIT, repair, interface includes 11, 42, 138	1			Danger and Warning labels s are available at no cost.	S,
132	16T482	FASTENER RIVOT, snap, 17H575, 17H576, 17H579,	2	lag	s, and card	s are available at 110 cost.	
	119228	17K581 SCREW, mach, flathead, all other models	2				
136 137 138	16T483 17J675 108860	PLUG, hole, switch BELT, synchronous SCREW, mach, pan head	1 1 4				
139	100403	PLUG, pipe	1				

Flow Switch Assembly

Ref.	Torque
<u>/</u> 5\	27-32 in-lb (3.1 - 3.6 N•m)

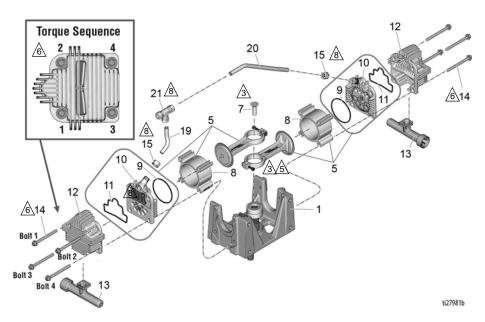


Ref.	Part	Description	Qty.
	17Z245	KIT, repair, flow switch	1
1	19A549	MANIFOLD, flow switch	1
2	19A550	PLUG, nylon ball stop	1
3	113418	PACKING, o-ring	1
4	19A551	PLUG, sensor	1
5	130785	SWITCH, reed, NC	1
6	130786	BALL, magnetic	1
7	104444	PACKING, o-ring	1
8	17V537	FITTING, tube, straight	2
9	101970	PLUG, pipe	1
10	127343	SWITCH, pressure	1
187	114182	SCREW, mach, hex, flange	2

Compressor Assembly Parts

Compressor Assembly Parts

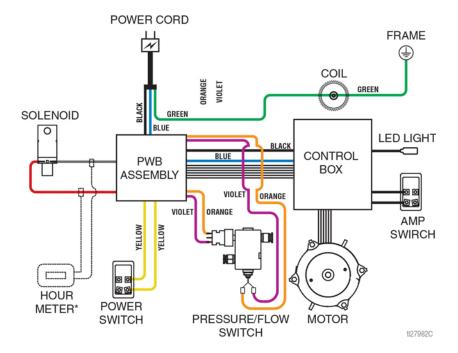
Ref.	Torque	Ref.	Torque		
<u>\$</u>	Piston retaining bolt and crankshaft bolts must torqued before head bolts (14) are torqued.	À	165-185 ft-lb (18.6 - 20.9 N•m)		
<u>\$</u>	50-65 in-lb (5.7 - 7.3 N•m)	8	Hand tighten then one additional full turn.		
<u>6</u>	120-140 in-lb (13.6 - 15.8 N•m) Finger tighten cap screw in position 4 first then torque cap screws in the sequence illustrated.				



Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	17S362	COMPRESSOR, pump,	1	14*	17H560	SCREW, cap serrated flange head	8
5*	24S150	assembly KIT, repair, piston and cylinder <i>includes</i> 8, 9,	2	15*	17H561		2
		10, 11		19	17H635	TUBE, heat exchanger,	1
7 8*	120204 17H553	SCREW, mach, hex CYLINDER, compres-	1 2	20	17H636	left TUBE, heat exchanger, right	1
9* 10*		sor O-RING, square KIT, repair plate valve	2 2	21	17H659	FITTING, compression, tee, 3/8	1
11*	17H555	Includes 9, 11 O-RING, head, formed	2		24S151	KIT, repair, compressor rebuild, also <i>includes</i>	1
12*	24S130	square KIT, repair, compressor head <i>includes 9, 10, 11</i>	2			146 found in RTX5000, RTX5500 Sprayer Parts	
13*	17H657		2			List	

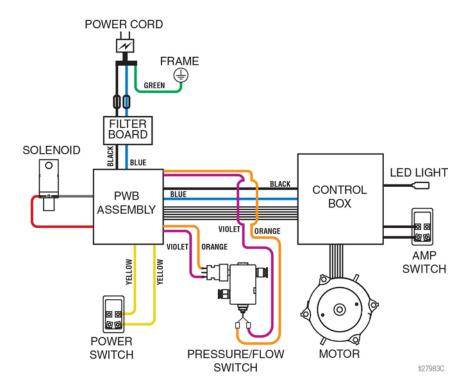
Wiring Diagrams

120V



Wiring Diagrams

230V



Technical Specifications

Technical Specifications

	US	Metric	
Sprayer			
Material Hopper Capacity	15 gal	57 I	
Maximum Delivery with Texture			
RTX5000	5.0 gpm	18.9 lpm	
RTX5500	5.5 gpm	20.8 lpm	
Maximum Fluid Working Pressure	100 psi	6.9 bar, 0.7 MPa	
Maximum Air Working Pressure	50 psi	3.5 bar, 0.35 MPa	
Compressor Air Displacement			
RTX5000PI			
15A @ 110-120V or	6.6 cfm @ 20 psi	187 l/m @ 1.3 bar, 0.13 MPa	
20A @ 110-120V	8.6 cfm @ 20 psi	244 l/m @ 1.7 bar, 0.17 MPa	
RTX5500PI			
10A @ 220–230V or	7.7 cfm @ 20 psi	218 l/m @ 1.5 bar, 0.15 MPa	
16A @ 220–230V	9.1 cfm @ 20 psi	258 l/m @ 1.8 bar, 0.18 MPa	
Compressor Specifications	Belt driv	/e oil-less	
Electric Motor DC brush less			
RTX5000PI	20A @	10–120V or 110–120V	
RTX5500PI		20–230V or 220–230V	
Power Cord	l		
RTX5000	12 AWG,	3-wire, 25 ft	
RTX5500	14 AWG,	3-wire, 25 ft	
Generator Minimum	75	00 W	
Power Requirements		15/20 A, 1Ø 10/16 A, 1Ø	
Dimensions		,	
Height	39.5 in.	100 cm	
Length	33.75 in.	86 cm	
Width	22.75 in.	58 cm	
Weight (includes hose and gun)			
RTX5000PI/RTX5500PI	164 lb.	74.4 kg	
RTX5000PX/RTX5500PX	174 lb.	78.9 kg	
Weight (gun)	2.3 lb.	1.0 kg	
Storage temperature range ◆❖	–35° to 160°F	–1.6° to 71°C	
Operating temperature range 🗸	40° to 115°F	4° to 46°C	

Technical Specifications

Sound power measured per ISO-9614.

	US	Metric					
Noise** (dBa) @ max air pressure)							
Sound pressure	81.8 dBa*						
Sound power	90.9 dBa*						
Materials of Construction							
Wetted materials on all models	brass, aluminum, plastic, stainless steel, plated carbon steel, elastomer						
Notes							
* Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type. ** Sound pressure measured 3 feet (1 meter) from equipment while spraying.							

- ◆ Pump damage will occur if water-based fluid freezes in pump.
- Damage to plastic parts may result if impact occurs in low temperature conditions.
- Temperature affects material viscosity, which can affect sprayer performance.

Graco Standard Warranty

Graco Standard Warranty

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

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

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

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

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

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

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

FOR GRACO CANADA CUSTOMERS

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

Graco Information

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