Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 940120 · Portable 20 Gallon Liberty Sprayer

REQUIREMENTS		
Ready-to-Use Chemical Solution		
Compressed Air	up to 4 CFM	
Hose	1/2" ID x 50'	
Nozzle	2506 or 2510	
OPTIONS		
Alternate Seal Materials - Santoprer	ne Standard	
Viton Upgrade: Flojet Air Pump & Check Valves		# 710756
Kalrez Upgrade: Flojet Air Pump & Check Valves		# 710755
Proportioning / Filling Options		
1-Way Ball Valve Mixing Station (4 GPM)		# 985100
1-Way Push Lever Mixing Station (4 GPM)		# 981100
High Volume Mixing Station (9.9 GPM)	# 985835





www.laffertyequipment.com 501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Portable 20 Gallon Liberty Sprayer is a chemical spray applicator for projecting ready-to-use chemical solution on to a variety of surfaces. This unit features an all stainless steel 4-wheel cart and lockable enclosure and uses a cost-effective Flojet air-operated, double-diaphragm pump to draw ready-to-use chemical from the 20 gallon tank. The solution is then discharged through the hose, wand and fan pattern spray nozzle. Includes 2 spray nozzles providing either 16 or 28 minutes of spraying time per 20 gallons of solution depending on the nozzle used.

SAFETY & OPERATIONAL PRECAUTIONS

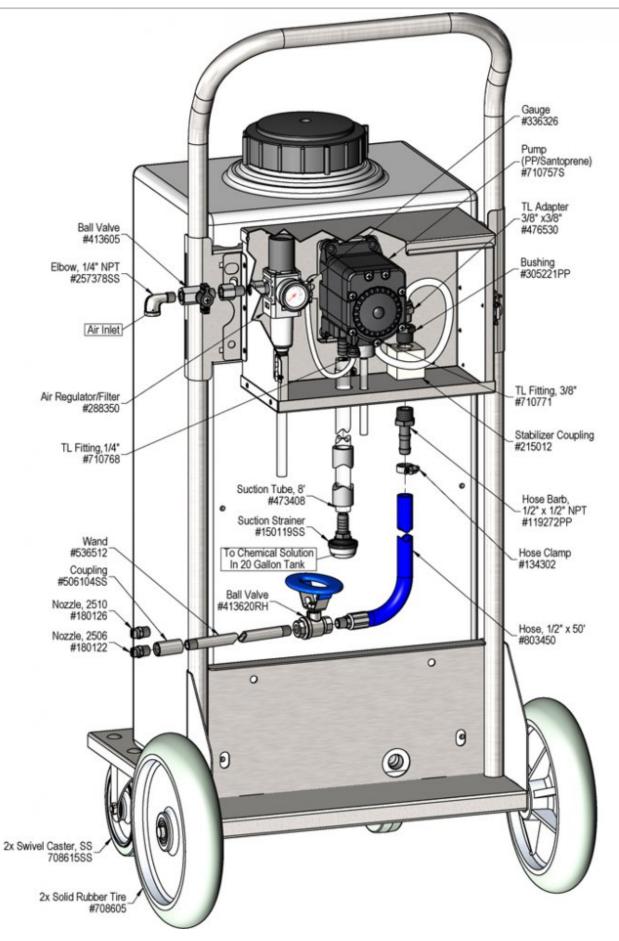
- For proper performance do NOT modify, substitute nozzle, hose diameter or length
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye-wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- DO NOT use d-Limonene or other chemicals that are not compatible with the Santoprene diaphragms.
- Viton upgrade is available.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

- 1. Fill the tank with ready to use solution to the desired level. Replace lid.
- 2. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON
- 3. Air Filter/Dryer recommend.

TO OPERATE

- <u>Always</u> make sure the discharge ball valve is closed or pointed in a safe direction before turning the air on. Ball valve can be shut off at any time during operation but should not be left unattended for long periods of time.
- The unit has been tested and is ready to operate, the air pressure preset at 60 PSI. This is the optimum pump pressure. Test "as is" before making any adjustments.
- 2 nozzles are provided a 2506 (.7 GPM) and a 2510 (1.2 GPM). Select one and install it.
- 1. With the wand in hand direct the discharge in a safe direction and open the discharge ball valve and the air ball valve.
- 2. Wait several seconds for pump to prime. IF after 30 seconds the pump hasn't primed turn off the air, remove the suction tube and fill with water and replace. Once the
- diaphragms are wet priming is not an issue. Open air ball valve to resume set up.
- 3. When spraying is complete:
 - Close the discharge ball valve.
 - \circ Promptly return to the unit and close the air ball valve.
 - \circ Briefly re-open the discharge ball valve to relieve pressure in the hose.
 - \circ Store the hose on optional hose rack.
- 4. Rinse the work surface before the spray dries.



Troubleshooting Guide

F	Possible Cause / Solution	
Startup	Maintenance	
1,3,4 1,2,3 2	5,6,9,10 6,7,8 6,7,8,9	
	Startup 1,3,4 1,2,3	

Possible Cause / Solution		
Startup	Maintenance	
1. Inlet ball valve partially closed or air pressure too low.	5. Air regulator clogged or failed	
 Completely open air inlet ball valve. 	◦ Clean or replace.	
2. Chemical tube not immersed in container or container	6. Chemical strainer clogged up	
empty	 Clean or replace. 	
 Immerse tube or replenish. 	7. Vacuum leak in suction line.	
3. Discharge ball valve closed or hose kinked	 Tighten the connection(s). 	
 Open ball valve / Straighten the hose. 	8. Chemical tube stretched out where tube attaches or pin	
4. Ice particles from condensation in air line — Air pump can	hole/cut in tube sucking air.	
periodically "freeze up" (stall) due to ice particles in the	 Cut off end of tube or replace tube. 	
pump's exhaust (depending on air humidity & other	9. Problem with air pump	
factors)	 Refer to air pump instruction manual. 	
 WAIT several seconds to allow the ice particles to melt and blow out, at which time the pump will automatically 	 https://www.xylem.com/en-us/products-services/pump 	
resume pumping.	packaged-pump-systems/pumps/positive-displacement	
	pumps2/diaphragm-pumps/air-operated-diaphragm-	
	pumps/g57-air-operated-double-diaphragm-	
	pump/documentation/	
	 Replace pump. 	
	10. Use of an oiler in the airline will cause pump to stall	
	 Use only clean, dry air. 	

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.

