Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 942136 · Portable 60 Gallon Freedom 2.4 / 2.4 Sprayer

REQUIREMENTS

Ready-to-Use Chemical Solution

Compressed Air	up to 9 CFM
Hose	1/2" ID x 50'
Nozzle	2520 & 2530

OPTIONS

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



Lafferty® EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Portable 60 Gallon 2.4 / 2.4 Freedom Sprayer is a dual-hose chemical applicator for projecting ready-to-use chemical solution as a fan pattern spray. This unit features a lockable, stainless steel enclosure, a 4-wheel stainless steel cart, and a rugged 1/2" Sandpiper air-operated, double-diaphragm pump that draws pre-diluted chemical from the 60 gallon tank and discharges the solution through the hose, wand and nozzle. Each discharge assembly includes two spray nozzles, which provide either 5 or 3.25 minutes of spraying time per 20 gallons of solution, depending on the nozzle used (assuming both hoses in operation).

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.
- TEFLON upgrade is available.

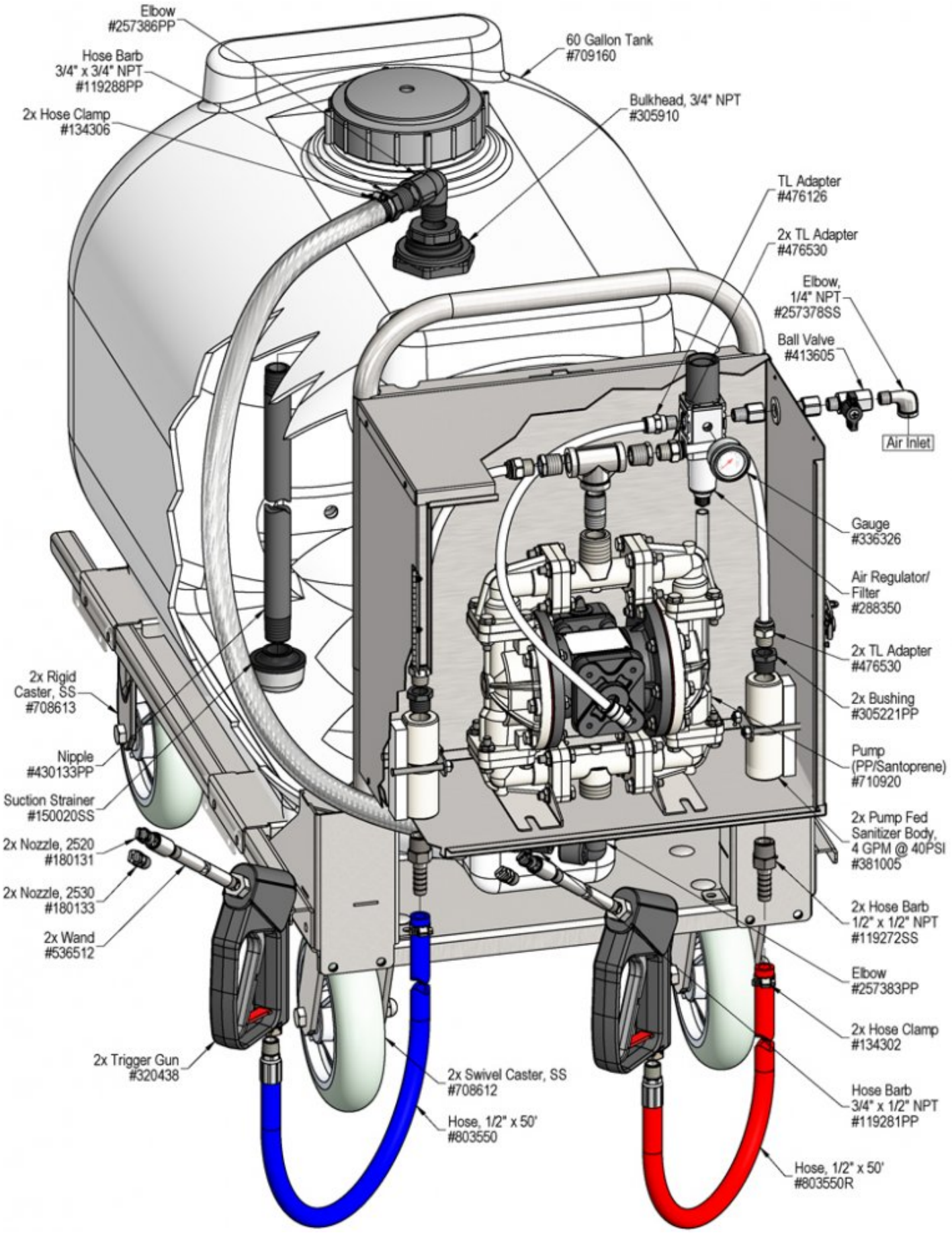
TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. Mount the unit above solution supply level to prevent siphoning.
2. Place the strainer in the chemical solution(s).
3. Attach the discharge hose.
4. Attach a compressed airline to the air inlet ball valve. DO NOT TURN ON.
5. Air Filter/Dryer recommend.

TO OPERATE

- **Always 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 2520 (2.0 GPM) and a 2530 (3.0 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.
    - Promptly return to the unit and close the air ball valve.
    - Briefly re-open the discharge ball valve to relieve pressure in the hose.
    - Store the hose on optional hose rack.
4. Rinse the work surface before the spray dries.


Elbow
#257386PP
Hose Barb
3/4" x 3/4" NPT
#119288PP
2x Hose Clamp
#134306
60 Gallon Tank
#709160
Bulkhead, 3/4" NPT
#305910
TL Adapter
#476126
2x TL Adapter
#476530
Elbow,
1/4" NPT
#257378SS
Ball Valve
#413605
Air Inlet
Gauge
#336326
Air Regulator/
Filter
#288350
2x TL Adapter
#476530
2x Bushing
#305221PP
Pump
(PP/Santoprene)
#710920
2x Pump Fed
Sanitizer Body,
4 GPM @ 40PSI
#381005
2x Hose Barb
1/2" x 1/2" NPT
#119272SS
Elbow
#257383PP
2x Hose Clamp
#134302
Hose Barb
3/4" x 1/2" NPT
#119281PP
Hose, 1/2" x 50'
#803550R
2x Rigid
Caster, SS
#708613
Nipple
#430133PP
Suction Strainer
#150020SS
2x Nozzle, 2520
#180131
2x Nozzle, 2530
#180133
2x Wand
#536512
2x Trigger Gun
#320438
2x Swivel Caster, SS
#708612
Hose, 1/2" x 50'
#803550

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not run or pump solution.	1,3	4,5,8,9
B) Will not draw chemical.	1,2,3	5,6,7
C) Pump runs too fast with no output.	2	5,6,7,8

Possible Cause / Solution	
Startup	Maintenance
1. Air adjustment too low ◦ Open air ball valve fully. Adjust air regulator slowly clockwise. Optimum air pressure is 60 PSI. **2. Chemical tube not immersed in container or container empty** ◦ Immerse tube or replenish. **3. Discharge ball valve closed or hose kinked** ◦ Open ball valve completely / Straighten the hose.	**4. Air regulator clogged or failed** **Clean or replace.** **5. Chemical strainer clogged up** ◦ Clean or replace. **6. Vacuum leak in suction line.** ◦ Tighten the connection(s). **7. Chemical tube stretched out where tube attaches or pin hole/cut in tube sucking air.** ◦ Cut off end of tube or replace tube. **8. Problem with air pump** ◦ Refer to air pump instruction manual **9. 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.