AFCO Installation & Operation Instructions

Model #AF 941106-LF •Liberty LF Foamer



REQUIREMENTS

Ready-to-Use Chemical Solution		
Compressed Air	6 CFM	
Hose	3/4" x 50'	
Nozzle	40100	

OPTIONS

Large Stainless Steel Hose Rack	# 224150	
Level Masters to Supply Ready-To-Use C 20 Gallon Level Master	hemical # 989020	
40 Gallon Level Master	# 989040	
60 Gallon Level Master	# 989046	
20 Gallon Gemini Level Master	# 989060	
40 Gallon Gemini Level Master	# 989070	
Drain Foamer Attachment Drain Foamer Attachment (Freedom & Liberty) # 53824		
Alternate Air Pump Diaphragm - Santoprene Standard Viton Diaphragm Upgrade For Flojet Air Pump #710756		
Kalrez Diaphragm Upgrade For Flojet Air Pump	# 710755	

WEIGHT & DIMENSIONS

Shipping Weight: 30 lbs.

Shipping Dimensions: 27" x 19" x 9"



The Liberty LF Foamer is a "low volume" foam applicator for projecting ready-to-use foaming chemicals on to any surface up close or at distances up to 9 feet. This unit features a stainless steel enclosure and uses a cost-effective 1/4" Flojet air-operated, double-diaphragm pump to draw pre-diluted chemical from a static tank. It injects compressed air into the solution to greatly increase volume and coverage ability and projects rich, clinging foam through the hose, wand and fan nozzle.

AFCO • 5000 Letterkenny Rd • Chambersburg, PA. 17201 • 1-800-345-1329

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A 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.

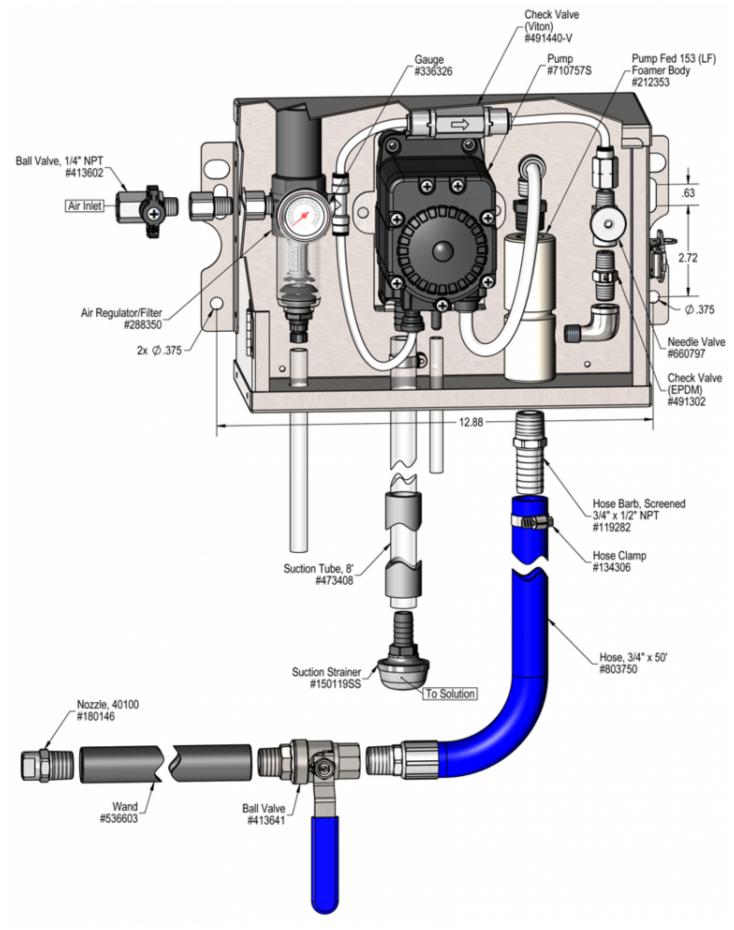
TO INSTALL (REFER TO DIAGRAM, NEXT PAGE.)

- 1. Mount the unit above solution supply level to prevent siphoning.
- 2. Place the strainer in the ready to use chemical solution(s).
- 3. Attach the discharge hose.
- 4. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON
- 5. 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. Expect a strong blast when re-opening ball valve.
- 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.
- The foam consistency knob is pre-set at 1/2 turn. To adjust foam consistency, turn the foam consistency needle valve counterclockwise a <u>maximum</u> of 1 turn for dryer foam and clockwise for wetter foam. Wait several seconds after each adjustment to see the results.
- 1. With the foam wand in hand direct the discharge in a safe direction and open the discharge ball valve and the air ball valve.
- If the flow of foam surges, the needle valve is open too much or the chemical concentration is too weak, reduce the air flow by turning the needle valve slowly clockwise until the foam flow stabilizes. Or add more chemical concentrate.
- 3. A medium-wet foam will give the best cleaning results! Very dry foam will NOT clean as well!
- 4. When foaming 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.
- 5. Rinse the work surface before the foam dries.

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Troubleshooting Guide

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	Possible Cause / Solution	
Problem	Startup Maintenance	
B) Foam surges and/or hose "bucks". C) Foam output too wet. D) Foam output too dry.	1, 2, 3, 4, 7 1, 2, 3, 4, 7 1, 2, 3, 4, 5, 6, 7 1, 2, 3, 4, 5, 6 2, 5, 6, 8 9, 10, 12, 13, 14 9, 12, 13 9, 12, 13 12, 13 14 14 14 15 15 15 15 15 15 15 15 15 15	
Possible Cause / Solution		
Startup	Maintenance	
 Inlet ball valve partially closed or air pressure too low. Completely open air inlet ball valve. 	9. Solution strainer blocked ∘ Clean or replace	
 Foam consistency needle valve open too much Adjust the needle valve slowly clockwise until foam stabilizes. Turn round handle slightly clockwise for wetter foam; open counterclockwise for dryer foam. Open a maximum of 1 turn. 	 10. Air regulator failed Clean or replace 11. Air or water check valve(s) failed Clean or replace 	
 3. Discharge ball valve not completely open or Discharge hose kinked Completely open the discharge ball valve / straighten hose 	12. Discharge hose wrong size or kinked (See REQUIREMENTS, page 1) • Straighten the hose	
 Solution tube not completely immersed in chemical or container empty Immerse tube or replenish chemical. 	13. Nozzle size too small or missing ∘ See REQUIREMENTS, page 1.	
 5. Dilution too weak Add more chemical to solution container. 	 14. Problem with air pump Refer to air pump instruction manual. http://www.xylemflowcontrol.com/files/G57 82000-014.pdf 	
6. Improper chemical • Ensure product is recommended for foaming and/or the application	• Replace pump.	
 7. Ice particles from condensation in air line — Air pump can periodically "freeze up" (stall) due to ice particles in the pump's exhaust (depending on air humidity & other factors) WAIT several seconds to allow the ice particles to melt and blow out, at which time the pump will automatically resume pumping. 		
 8. Soil has hardened on surface Always rinse foam before it dries. 		

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.

