# Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

# Model # 933602-V · 1-Way FPV-PD Concrete Foamer

# 224150

#### REQUIREMENTS

Ready-to-Use Chemical Solution	
Compressed Air	up to 6 CFM
Hose	3/4" ID x 50'
Nozzle	40150
OPTIONS	

Stainless Steel Hose Racks Large Stainless Steel Hose Rack

To Dilute and Dispense Ready-To-Use Acid Solution 414HC Acid Mixing Station # 980415

#### Drum & Tote Stick Lengths & Seal Materials

Drum Stick, 33" (Viton or EPDM)	# 491643 / 491643-E
Drum Stick, 48" (Viton or EPDM)	# 491648 / 491648-E
Drum Stick, 54" (Viton or EPDM)	# 491645 / 491645-E
Tote Stick, 33" (Viton or EPDM)	# 491653 / 491653-E
Tote Stick, 48" (Viton or EPDM)	# 491654 / 491654-E
Tote Stick, 54" (Viton or EPDM)	# 491656 / 491656-E





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WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!



# **OVERVIEW**

The 1-Way FPV-PD Concrete Foamer is a foam applicator for projecting highly corrosive chemicals such as those used to remove concrete and for aluminum brightening. This acid-resistant system uses a cost-effective Flojet air-operated, double-diaphragm pump to draw ready-to-use acid solution from a static tank and inject compressed air to greatly increase volume and coverage ability. Rich, clinging foam is projected through the hose, wand and fan nozzle on to any surface.

# **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.
- $\bullet$  Follow the chemical manufacturer's safe handling instructions.
- $\bullet$  DO NOT use chemicals that are not compatible with Viton diaphragms.

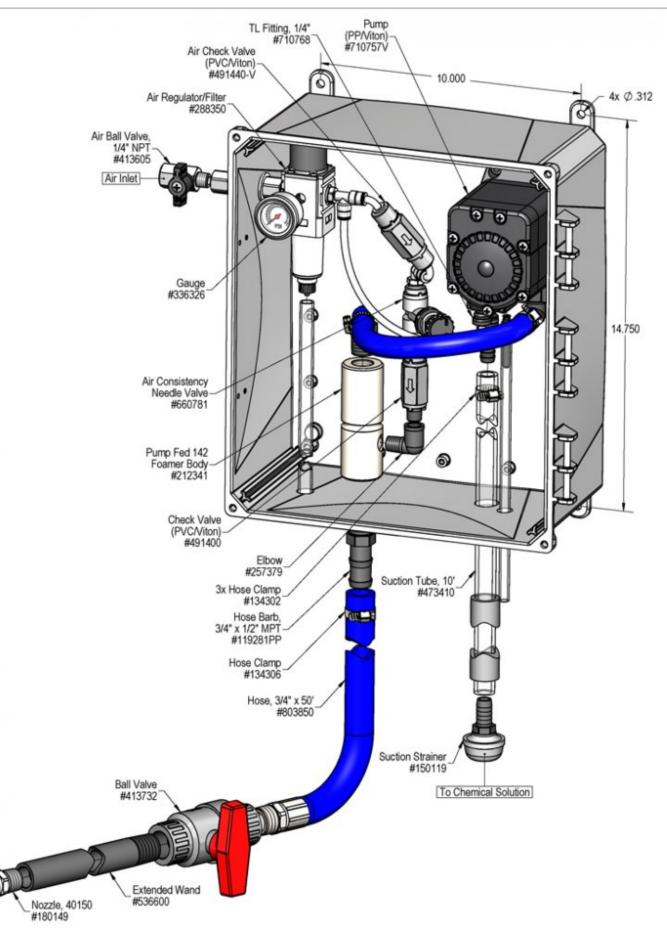
#### TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

- 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

- <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 approximately 1/2 turn. To adjust foam consistency, turn the foam consistency needle valve counterclockwise a <u>maximum</u> of 1 turn for drier 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.
- To prime the pump, slightly open the air inlet ball valve to make the pump cycle very slow where it will prime. Once the solution reaches the pump open the air valve all the way.
- 3. Do NOT run the pump dry. This can cause damage to the pump.
- 4. Always slightly open the inlet ball valve until the pump primes.
- 5. IF after several 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.
- 6. 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.
- 7. A medium-wet foam will give the best cleaning results! Very dry foam will NOT clean as well!
- 8. 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.
- 9. Rinse the work surface before the foam dries.

UNIT FLOW RATES		
PSI	GPM	
60	1.20	



# **Troubleshooting Guide**

Problem	Possible	Possible Cause / Solution	
	Startup	Maintenance	
A) Air pump will not pump or runs with no output.	1, 2, 3, 4, 7	9, 10, 12, 13, 14	
B) Foam surges and/or hose "bucks".	1, 2, 3, 4, 5, 6, 7	9, 12, 13	
C) Foam output too wet.	1, 2, 3, 4, 5, 6	9, 12, 13	
D) Foam output too dry.	2		
E) Cleaning results not acceptable.	5, 6, 8		

Maintenance
9. Solution strainer blocked • Clean or replace
<ul> <li>10. Air regulator failed <ul> <li>Clean or replace</li> </ul> </li> <li>11. Air or water check valve(s) failed <ul> <li>Clean or replace</li> </ul> </li> <li>12. Discharge hose wrong size or kinked (See REQUIREMENTS, page 1). <ul> <li>Straighten the hose</li> </ul> </li> <li>13. Nozzle size too small or missing <ul> <li>See REQUIREMENTS, page 1.</li> </ul> </li> <li>14. Problem with air pump <ul> <li>Refer to air pump instruction manual.</li> <li>https://www.xylem.com/en-us/brands/Flojet/flojet-products/g57-air-operated-double-diaphragm-pump</li> <li>Replace pump.</li> </ul> </li> </ul>

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.

