Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 935222 · AF Teat Foam Sprayer

REQUIREMENTS

Ready-to-Use Chemical Solution

Compressed Air	up to 1.5 CFM
Hose	3/8" ID x 25'
Nozzle	#6 Bullet Foam Nozzle

OPTIONS

Stainless Steel Hose Racks

Small Stainless Steel Hose Rack	# 224145

Stainless Steel Jug Racks

2 ½ Gal. (8 ½" x 10 ½")	# 224210
5 Gallon (12" x 12") Round/Square	# 224215

WEIGHT & DIMENSIONS

Single Package

Shipping Weight	27 lbs.
Shipping Dimensions	28" x 19" x 9"

Lafferty EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The AF Teat Foam Sprayer is a unique foam applicator for spraying foaming teat dips. This pump-driven system uses compressed air to power an AODD pump to draw and pressurize ready-to-use teat dip. The solution flows through the discharge hose and trigger gun to the "airless" foam nozzle which draws in atmospheric air to project a low volume of wet, clinging foam. The foam pattern width is adjustable.

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.

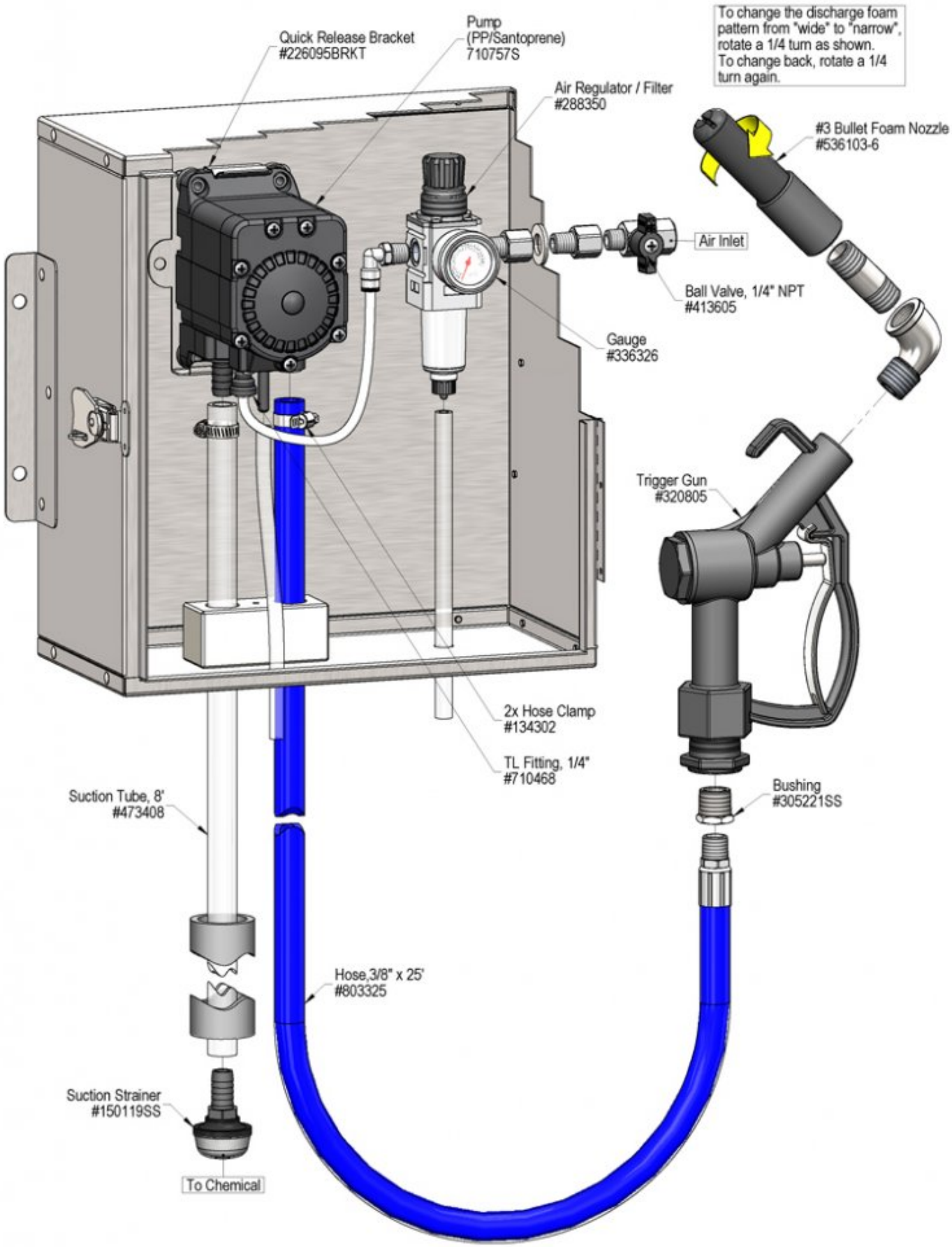
TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. 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

- **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 to the pressure.**

1. Open the inlet air ball valve.
2. With the trigger gun in hand direct the discharge in a safe direction and pull the trigger and observe foam throw and pattern, twist the end of the "nozzle" to go from a wide or narrow spray pattern. Adjust air pressure lower for less throw.
3. Spray teats as needed.


To change the discharge foam pattern from "wide" to "narrow", rotate a 1/4 turn as shown. To change back, rotate a 1/4 turn again.
Quick Release Bracket #226095BRKT
Pump (PP/Santoprene) 710757S
Air Regulator / Filter #288350
#3 Bullet Foam Nozzle #536103-6
Air Inlet
Ball Valve, 1/4" NPT #413605
Gauge #336326
Trigger Gun #320805
2x Hose Clamp #134302
TL Fitting, 1/4" #710468
Bushing #305221SS
Suction Tube, 8' #473408
Hose,3/8" x 25' #803325
Suction Strainer #150119SS
To Chemical

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not run/will not pump.	1, 2, 3, 4, 7	9, 12, 13, 14, 15
B) Pump runs too fast with no output.	1, 4	9, 10, 11, 12, 13, 14,15
C) Unit will not draw chemical, poor foam quality.	1, 3, 4, 8	9, 10, 11, 12, 13, 15
	5, 6	9, 10, 11,12,15

Possible Cause / Solution

Startup

1. **Air pressure too high or too low (60 PSI factory set)**
   - Open air ball valve fully.
   - Adjust the air regulator clockwise to increase pressure or counterclockwise to decrease
   - Do not exceed 90 PSI. Higher pressure will cause permanent damage to the air pump.
2. **IF discharge hose is long.**
   - Give it plenty of time to fill the hose and reach the end.
3. **Discharge hose kinked**
4. **Suction tube not immersed / Chemical depleted**
   - Fully immerse tube
   - Replenish chemical
5. **Dilution too weak**
   - Adjust dilution to be stronger.
6. **Improper chemical**
   - Ensure product is recommended for foaming and/or the application.
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.

Maintenance

8. **Foam output too wet**
   - Ensure air pressure is at least 60 PSI.
9. **Suction tube blocked or stretched out where tube slides over hose barb or pin hole/cut in tube (sucking air in)**
   - Cut off end of tube or replace tube.
10. **Vacuum leak in solution pick-up connections (sucking air in)**
    - Check and tighten suction connections.
11. **Chemical strainer stopped up**
    - Clean strainer or replace if missing.
12. **Airless foam wand clogged**
    - Clean/flush out with hot water, soak in a de-scaling acid or replace.
13. **Air regulator / Air filter clogged or failed**
    - Clean or replace
14. **Problem with air pump**
    - Refer to air pump instruction manual.
    - https://www.xylem.com/en-us/brands/Flojet/flojet-products/g57-air-operated-double-diaphragm-pump
    - Replace pump.
15. **Use of an oiler in the airline will cause poor performance or cause pump to stall and cause damage.**

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.