Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 919045 · FPS Fogger Chemical Feed System

REQUIREMENTS / SPECIFICATIONS

Chemical Concentrate or RTU Solution

Compressed Air	up to 4 CFM
80 PSI air in	20 PSI solution out @ 4.25 GPM
60 PSI air in	20 PSI solution out @ 3.5 GPM

OPTIONS

Alternate Seal Materials - Santoprene Standard

Viton Upgrade: Flojet Air Pump	# 710754V
Kalrez Upgrade: Flojet Air Pump	# 710754KZ

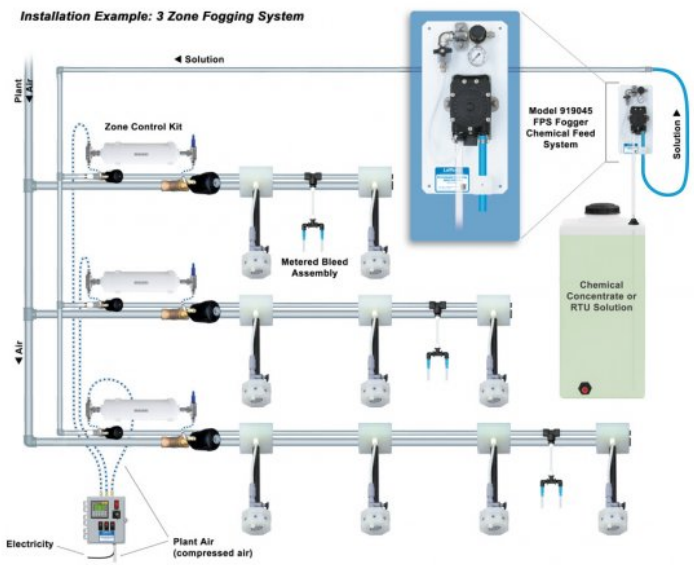
Electronic Zone Control

3-Zone PF Fogger PLC Vision Controller	# 950843
6-Zone PF Fogger PLC Vision Controller	# 950846
Zone Control Kit	# 950850
Metered Bleed Assembly	# 950852

WEIGHT & DIMENSIONS

Single Package

Shipping Weight	20 lbs.
Shipping Dimensions	15" x 15" x 11"



Lafferty EQUIPMENT MANUFACTURING LLC®

CFS TECHNOLOGIES

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The FPS Fogger Chemical Feed System is a compressed air driven system that will deliver neat or pre-diluted chemical solution to Pump Fed Foggers at the appropriate pressure.

SAFETY & OPERATIONAL PRECAUTIONS

- For proper performance do NOT modify or substitute hose diameter.
- 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 or Kalrez upgrades are available.

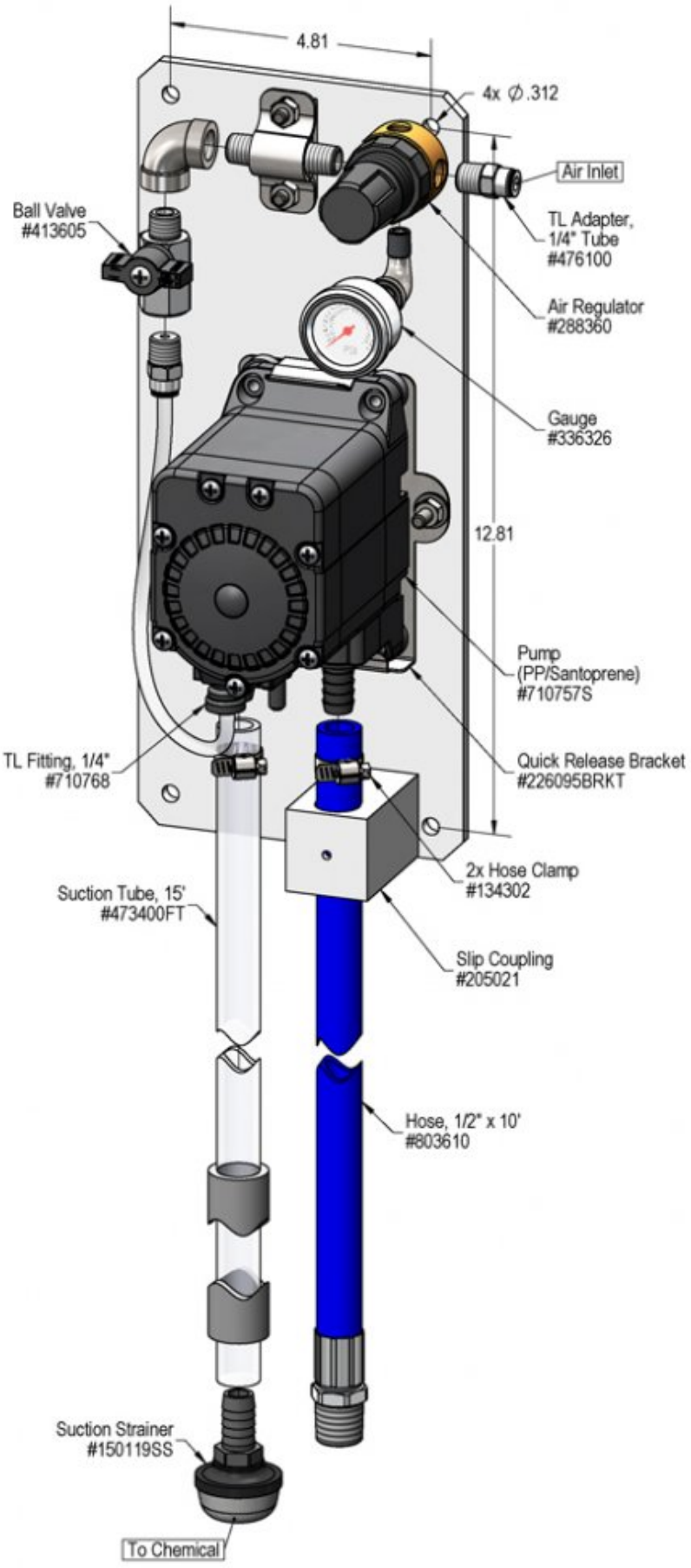
TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

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

You are now ready to operate the system, depending on the intended application.

1. Turn the inlet ball valve slightly until the pump primes then open fully to begin pumping.


4.81
4x ∅.312
Air Inlet
Ball Valve
#413605
TL Adapter,
1/4" Tube
#476100
Air Regulator
#288360
Gauge
#336326
12.81
Pump
(PP/Santoprene)
#710757S
TL Fitting, 1/4"
#710768
Quick Release Bracket
#226095BRKT
2x Hose Clamp
#134302
Suction Tube, 15'
#473400FT
Slip Coupling
#205021
Hose, 1/2" x 10'
#803610
Suction Strainer
#150119SS
To Chemical

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not run or pump chemical solution. B) Will not draw chemical. C) Pump runs too fast with no output.	1,3,4 1,2,3 2	5,6,9,10 6,7,8 6,7,8,9

Possible Cause / Solution

Startup

1. **Inlet ball valve partially closed or air pressure too low.**
   - Completely open air inlet ball valve.
2. **Chemical tube not immersed in container or container empty**
   - Immerse tube or replenish.
3. **Hose kinked**
   - Straighten the hose.
4. **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

5. **Air regulator clogged or failed**
   - Clean or replace.
6. **Chemical strainer clogged up**
   - Clean or replace.
7. **Vacuum leak in suction line.**
   - Tighten the connection(s).
8. **Chemical tube stretched out where tube attaches or pin hole/cut in tube sucking air.**
   - Cut off end of tube or replace tube.
9. **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.
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.