Lafferty Equipment Manufacturing, Inc.
Installation & Operation Instructions

Model # 920920 · Pump Fed Sanitize / Airless Foam Hose Drop Station

REQUIREMENTS

Ready-to-Use Chemical Solution	
Temperature	up to 160°F
Pressure	35 to 125 PSI
Flow	1.7 GPM @ 40 PSI
Supply Line	1/2"
Compressed Air	up to 4 CFM
Hose	
Sanitize	1/2" ID x 50'
Foam	1/2" ID x 50'
Nozzle	
Sanitize	2520
Foam	A-25SS Airless Foam Wand

OPTIONS

Stainless Steel Hose Racks	
Large Stainless Steel Hose Rack	# 224150
Strainer	
Strainer, "Y", SS, 1/2" MF	# 150350-1
Alternate Air Check Valve - EPDM Standard	
Check Valve, Air, SS, 1/4" MM (Viton / Hast)	# 491306

WEIGHT & DIMENSIONS

Single Package	
Shipping Weight	37 lbs.
Shipping Dimensions	28" x 28" x 8"

Lafferty
EQUIPMENT MANUFACTURING INC.

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Pump Fed Sanitize / Airless Foam Hose Drop Station is a combination applicator for projecting one ready-to-use chemical as foam and another as a sanitizing spray, without compressed air. This unit receives 2 separate ready-to-use chemical solutions from separate central chemical feed systems. Foaming chemical solution flows through the foam hose to the "airless" foam wand which draws in atmospheric air to create and project wet, clinging foam at distances up to 6 feet. The sanitizer solution flows through the sanitizer hose and is projected as a fan pattern spray.

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.
- Turn off solution supply when unit is not in use for extended periods.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. Mount the unit to a suitable surface.
2. Connect the discharge hoses as shown in the diagram and close the ball valves.
3. To prevent blocking the small jets flush any new plumbing of debris before connecting. And/or install a strainer. (see options)
4. Connect pre-mixed solution supply line.
5. Connect water supply. Flush any new plumbing of debris before connecting.

TO OPERATE

Always make sure the discharge is closed or pointed in a safe direction before turning inlet valve on. Discharge can be shut off at any time during operation but should not be left off for long periods of time with the inlet valve on.

TO FOAM

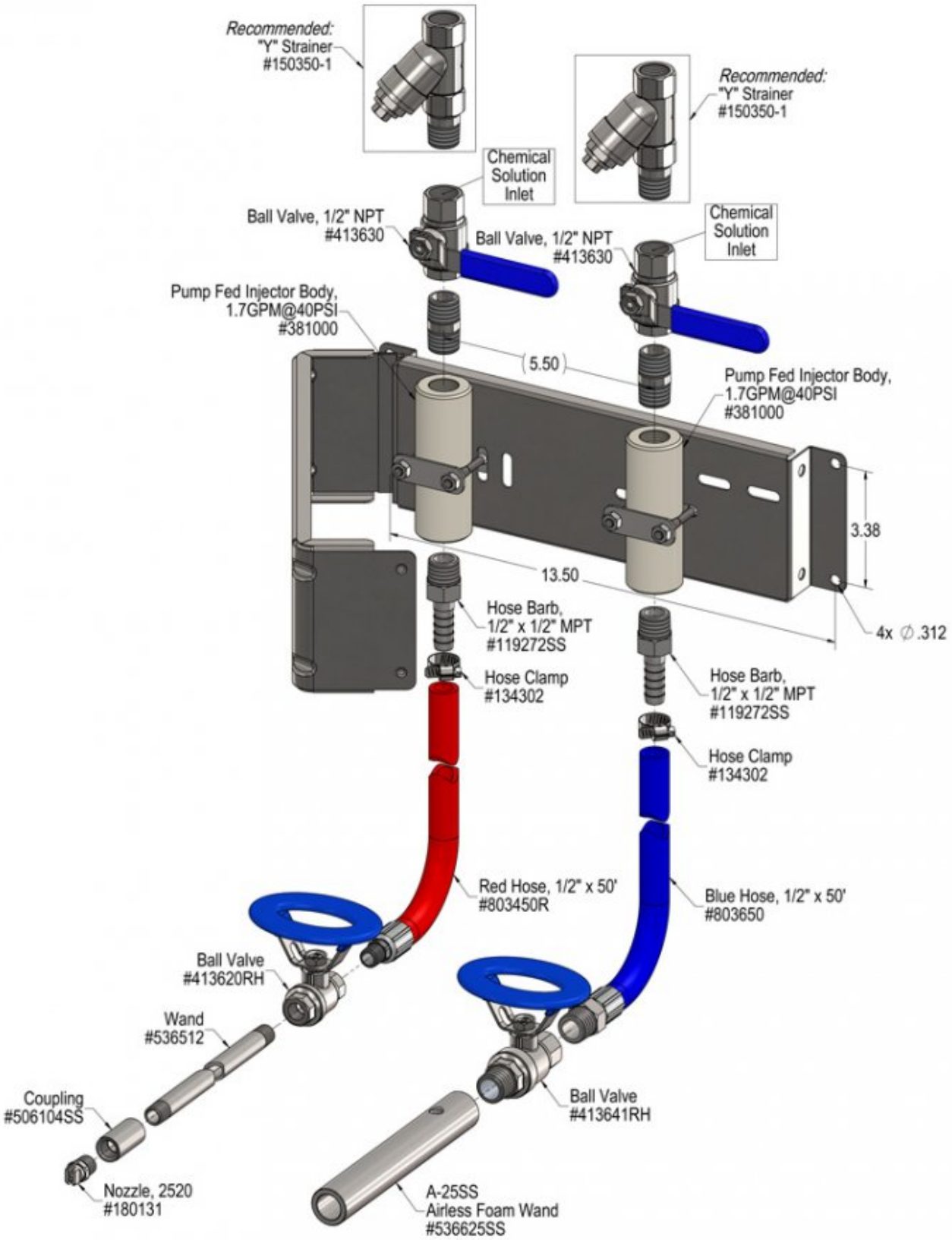
1. With discharge wand in hand open the inlet ball valve. Then open the discharge ball valve to begin application.
2. When foaming is completed, close the discharge ball valve then close the inlet ball valve.
3. Briefly re-open the discharge ball valve to relieve pressure in hose. If applicable rinse the work surface before solution dries.

TO SANITIZE

1. With discharge wand in hand open the inlet ball valve. Then open the discharge ball valve to begin application.
2. When sanitizing is completed, close the discharge ball valve then close the inlet ball valve.
3. Briefly re-open the discharge ball valve to relieve pressure in hose. If applicable, rinse the work surface before solution dries.

UNIT FLOW RATES

PSI	GPM	
	SANITIZE	FOAM
35	1.59	1.59
40	1.70	1.70
50	1.90	1.90
60	2.08	2.08
70	2.25	2.25
80	2.40	2.40
90	2.55	2.55
100	2.69	2.69
110	2.82	2.82
120	2.94	2.94
125	3.01	3.01


Recommended:
"Y" Strainer
#150350-1
Recommended:
"Y" Strainer
#150350-1
Chemical
Solution
Inlet
Chemical
Solution
Inlet
Ball Valve, 1/2" NPT
#413630
Ball Valve, 1/2" NPT
#413630
Pump Fed Injector Body,
1.7GPM@40PSI
#381000
5.50
Pump Fed Injector Body,
1.7GPM@40PSI
#381000
3.38
13.50
4x ∅.312
Hose Barb,
1/2" x 1/2" MPT
#119272SS
Hose Clamp
#134302
Hose Barb,
1/2" x 1/2" MPT
#119272SS
Hose Clamp
#134302
Red Hose, 1/2" x 50'
#803450R
Blue Hose, 1/2" x 50'
#803650
Ball Valve
#413620RH
Wand
#536512
Coupling
#506104SS
Nozzle, 2520
#180131
Ball Valve
#413641RH
A-25SS
Airless Foam Wand
#536625SS

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Weak pressure and/or low volume output	1, 2, 3, 4	8, 9
B) Foam does not clean or foam properly	5, 6	9, 10
C) Sanitizer has weak spray	1, 2, 3, 7	8, 9

Possible Cause / Solution

Startup

1. **Inlet or discharge ball valves not completely open**
   - Completely open both ball valves.
2. **Solution pressure or volume too low/inlet piping too small.**
   - Increase solution pressure or volume.
3. **Discharge hose too long for available solution pressure, kinked or wrong size**
   - Straighten the hose or replace hose.
4. **Nozzle size too small (SEE REQUIREMENTS)**
5. **Improper chemical or solution too weak**
   - Ensure product is recommended for foaming and/or the application. Increase chemical concentration.
6. **Soil has hardened on surface; always rinse before chemical dries**
   - Reapplication may be necessary.
7. **Sanitizer nozzle has been changed - too large**
   - Replace nozzle with correct size (see requirements)

Maintenance

8. **Inlet orifice clogged**
   - Check/clean inlet orifice for obstructions.
9. **Hard water scale or chemical build-up may have formed in the body causing poor or no flow**
   - Follow Preventive Maintenance instructions below, using hot water and/or de-scaling acid. When there is no flow at all, carefully remove fittings and soak entire body in de-scaling acid.
10. **Foam wand clogged or scaled up / wrong nozzle**
    - Hard water scale or chemical build-up may have formed, soak entire foam wand in de-scaling acid / see requirements.

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods run water through the system to flush the chemical and help prevent chemical build-up.