Lafferty Equipment Manufacturing, Inc.
Installation & Operation Instructions

Model # 920918 · Rinse / Pump Fed 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	3/4"

Hose

Foam	1/2" ID x 50'
Rinse	3/4" ID x 50'

Nozzle

Foam	A-25SS Airless Foam Wand
Rinse	4 Hole Rinse Nozzle

OPTIONS

Stainless Steel Hose Racks

Large Stainless Steel Hose Rack	# 224150

Strainer

Strainer, "Y", SS, 1/2" MF	# 150350-1

WEIGHT & DIMENSIONS

Single Package

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

Lafferty
EQUIPMENT MANUFACTURING INC.

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WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Rinse / Pump Fed Airless Foam Hose Drop Station is a combination medium volume foam applicator for projecting ready-to-use foaming chemicals on to any surface up close or at a distance and for rinsing, without compressed air. This unit receives ready-to-use chemical solution from a central chemical feed system and projects it through the discharge hose to the "airless" foam wand which draws in atmospheric air to create and project wet, clinging foam at distances up to 6 feet. Rinse at full pressure through a separate hose and unique, powerful 4-hole nozzle.

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

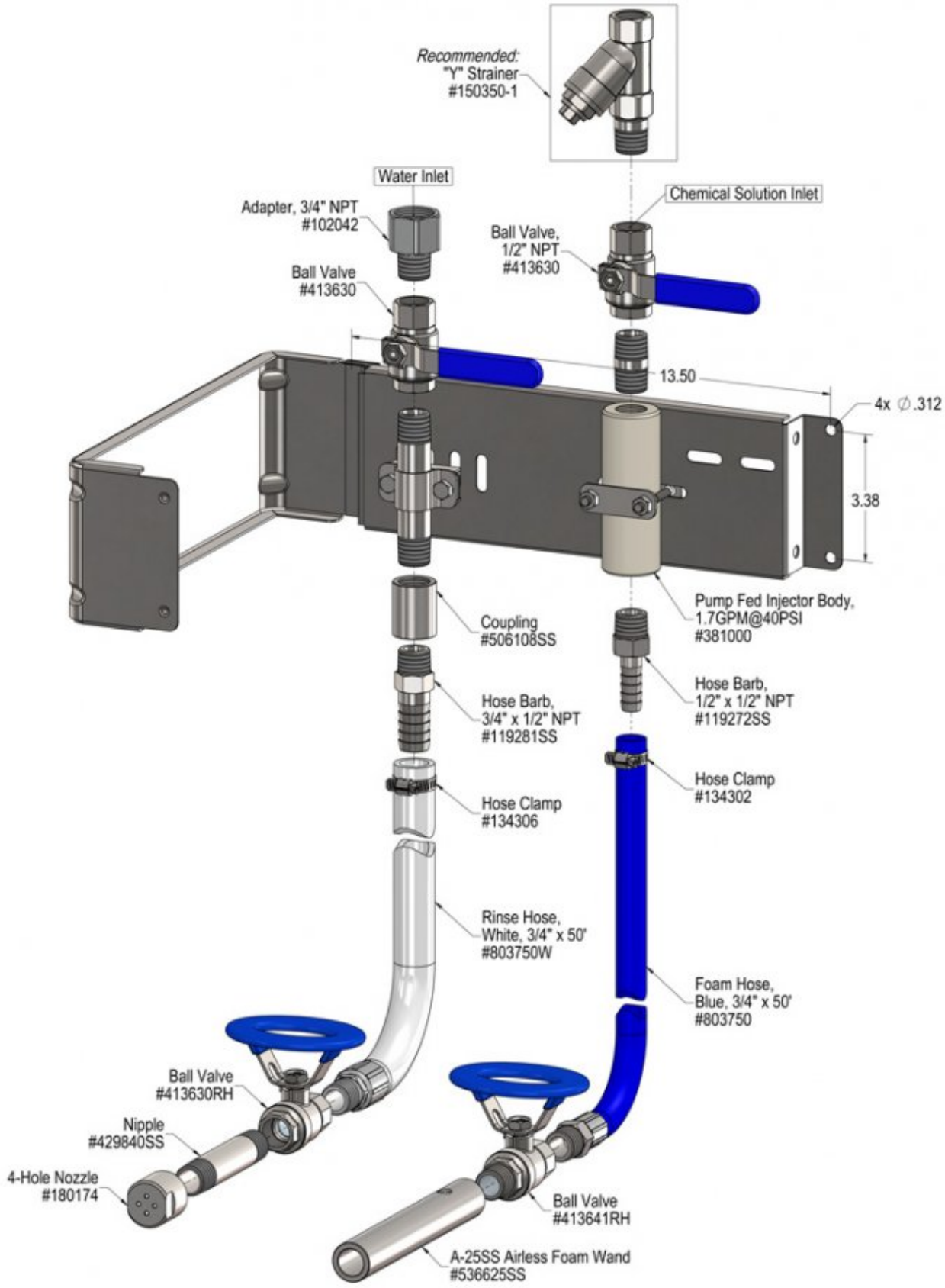
1. With discharge wand in hand open the inlet ball valve. Then open the discharge ball valve to begin application.
2. When foaming is completed, close the discharge ball valve then close the inlet ball valve.
3. Briefly re-open the discharge ball valve to relieve pressure in hose. If applicable rinse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

TO RINSE

1. With spray wand in hand and the discharge ball valve closed open the inlet ball valve.
2. Open the discharge ball valve to rinse.
3. When complete, close the discharge ball valve then close the inlet ball valve.
4. Briefly re-open the discharge ball valve to relieve pressure in hose.

UNIT FLOW RATES

PSI	GPM	
	FOAM	RINSE
35	1.59	6.73
40	1.70	7.20
50	1.90	8.05
60	2.08	8.82
70	2.25	9.52
80	2.40	10.18
90	2.55	10.80
100	2.69	11.38
110	2.82	11.94
120	2.94	12.47
125	3.01	12.73


Recommended:
"Y" Strainer
#150350-1
Water Inlet
Chemical Solution Inlet
Adapter, 3/4" NPT
#102042
Ball Valve,
1/2" NPT
#413630
Ball Valve
#413630
13.50
4x ∅.312
3.38
Pump Fed Injector Body,
1.7GPM@40PSI
#381000
Coupling
#506108SS
Hose Barb,
1/2" x 1/2" NPT
#119272SS
Hose Barb,
3/4" x 1/2" NPT
#119281SS
Hose Clamp
#134302
Hose Clamp
#134306
Rinse Hose,
White, 3/4" x 50'
#803750W
Foam Hose,
Blue, 3/4" x 50'
#803750
Ball Valve
#413630RH
Nipple
#429840SS
4-Hole Nozzle
#180174
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 B) Foam does not clean or foam properly	1, 2, 3, 4 5, 6	7, 8 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.

Maintenance

7. **Inlet orifice clogged**
   - Check/clean inlet orifice for obstructions.
8. **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.
9. **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.