

Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 920125SS · Pump Fed SS Sanitize / Rinse / SS Foam Hose Drop Station

REQUIREMENTS

Ready-to-Use Chemical Solution

Temperature	up to 180°F
Pressure	35 to 125 PSI
Flow	1.7 GPM @ 40 PSI
Supply Line	1/2"

Rinse

Temperature	up to 180°F
Pressure	35 to 125 PSI
Flow	7.2 GPM @ 40 PSI
Supply Line	3/4"

Compressed Air

up to 4 CFM

Hose

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

Nozzle

Sanitize	2520
Rinse	4 Hole Rinse Nozzle
Foam	50250



OPTIONS

Stainless Steel Hose Racks

Large Stainless Steel Hose Rack	# 224150
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Foam Solution Check Valves & Strainer

Check Valve, PP, 1/2" (EPDM)	# 491409
Check Valve, PP, 1/2" (Viton)	# 491411
Check Valve, 316SS, 1/2", MF (Teflon)	# 491348SS-T
Strainer, "Y", SS, 1/2" MF	# 150350-1

Alternate Air Check Valve - EPDM Standard

Check Valve, Air, SS, 1/4" MM (Viton / Hast)	# 491306
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Stainless Steel Foam Wand (Upgrade)

Convert PP Wand to SS (New Units)	# 536603-X
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Lafferty
EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

www.laffertyequipment.com

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**WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**



OVERVIEW

The Pump Fed SS Sanitize / Rinse / Foam Hose Drop Station is a combination applicator for projecting one ready-to-use chemical as foam, another as a sanitizing spray and for rinsing. This stainless steel unit receives 2 separate ready-to-use chemical solutions from separate central chemical feed systems. Rich, clinging foam is created by injecting compressed air into the foaming solution to greatly increase volume and coverage ability. Foam is then projected through the foam hose and fan nozzle on to any surface up close or at distances up to 12 feet. Sanitizer solution, or any other chemical, is projected through a separate hose as a fan pattern spray. Rinse through the 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.
- For pressures over 100 PSI, remove the discharge valve or lower pressure
- Follow the chemical manufacturer's safe handling instructions.
- Turn off solution supply and air when unit is not in use for extended periods.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

A check valve is required on the foamer solution inlet to prevent air from going back into the solution line. (See Options)

1. Mount the unit to a suitable surface.
2. Connect the discharge hoses as shown in the diagram and close the ball valves.
3. Install a solution check valve on the foamer solution inlet(s) and connect pre-mixed solution supply.
4. To prevent blocking the small jets, flush any new plumbing of debris before connecting. (And/or install a strainer)
5. Connect compressed air supply. If piping is older and has known contaminants, install a filter.

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.

1. With wand in hand open the inlet ball valve, and the air ball valve.
 - Wait a few seconds and observe foam consistency.
 - Use the least amount of air needed to achieve good foam quality to prevent solution pressure fluctuations from affecting performance. Air pressure must be kept lower than solution pressure.
 - To adjust the foam consistency pull out on the air regulator knob, turn slightly clockwise for dryer foam and counterclockwise for wetter foam. Wait a few seconds to see each adjustment.
 - Medium wet foam will give the best cleaning results! Dry foam will NOT clean as well!
 - You may also have to try different chemical ratios and air settings until foam consistency and cleaning results are acceptable. Once this is set and desired foam consistency is achieved push lock the knob. you are ready to start application.
2. When foaming is completed, close the discharge ball valve, return to the unit and close the solution and air ball valves. Briefly re-open the discharge ball valve to relieve pressure in the hose. Rinse before the foam dries.

TO FOAM

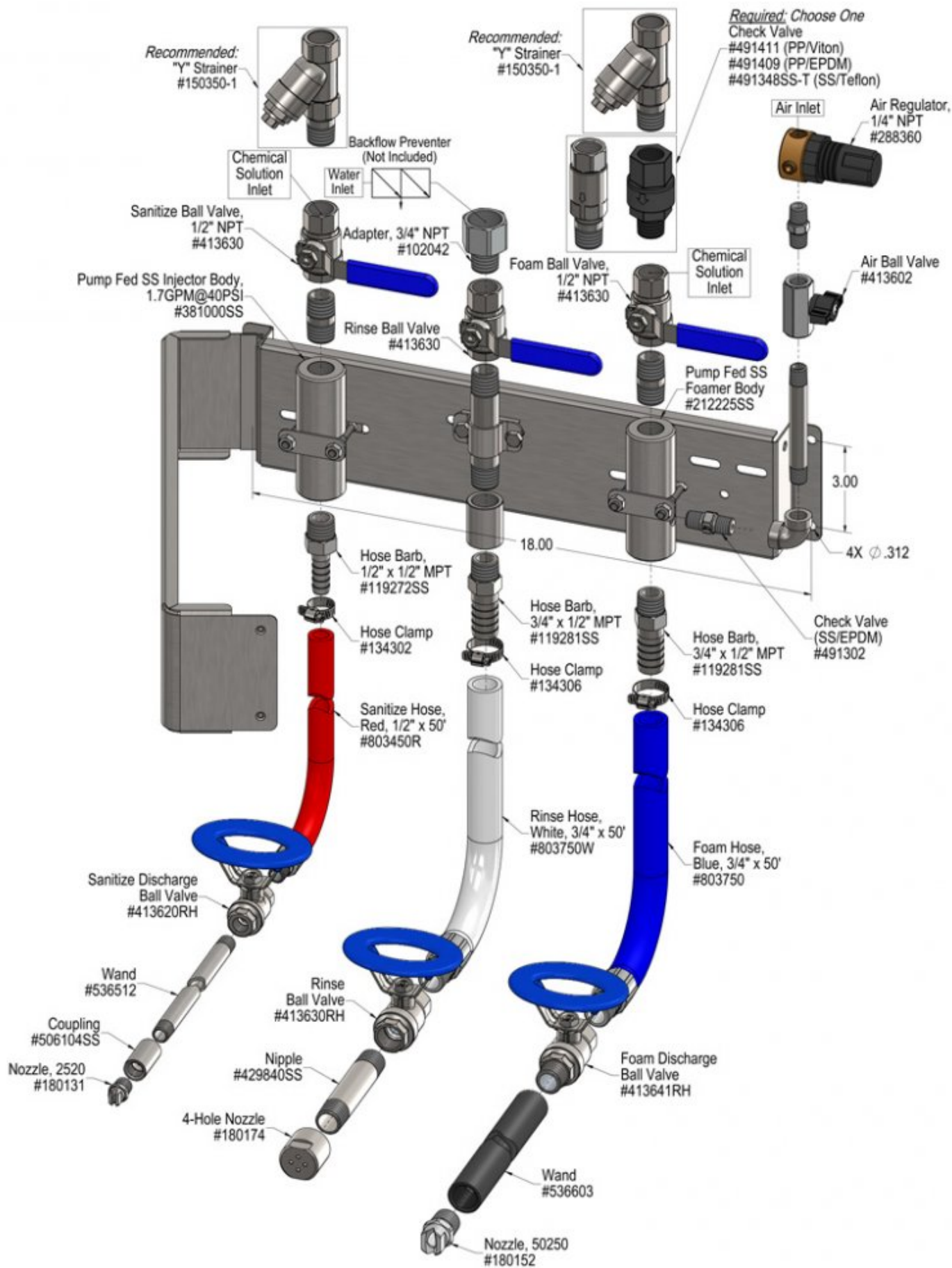
1. With spray wand in hand and the discharge ball valve closed open the inlet ball valve.
2. Open the discharge ball valve to rinse.
3. When complete, close the discharge ball valve then close the inlet ball valve.
4. Briefly re-open the discharge ball valve to relieve pressure in hose.

TO RINSE

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



Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Foam surges and/or hose "bucks"	1, 2, 3, 4, 5, 7, 8	10, 11, 14
B) Foam too wet	2, 3, 4, 7, 8	12, 14
C) Foam does not clean properly	1, 4, 9	
D) Air backing up into foam solution line		14
E) Chemical solution backing up into airline		13

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Sanitizer has weak spray	2, 3, 6, 7	10, 11

Possible Cause / Solution	
Startup	Maintenance
<ol style="list-style-type: none"> 1. Air pressure too high <ul style="list-style-type: none"> ◦ Adjust the air regulator slowly counterclockwise until output stabilizes or foam is "wetter" 2. Solution pressure or volume too low/inlet piping too small causing poor chemical pick up <ul style="list-style-type: none"> ◦ Increase pressure ◦ Reduce number of stations being used at one time 3. Inlet or discharge ball valve not completely open <ul style="list-style-type: none"> ◦ Completely open the inlet and discharge ball valves 4. Not enough chemical or improper chemical <ul style="list-style-type: none"> ◦ Increase chemical concentration ◦ Ensure product is recommended for foaming and the application 5. Foam nozzle has been changed- too small <ul style="list-style-type: none"> ◦ Replace nozzle with correct size 6. Sanitizer nozzle has been changed- too large <ul style="list-style-type: none"> ◦ Replace nozzle with correct size 7. Discharge hose too long or wrong size or kinked <ul style="list-style-type: none"> ◦ Straighten the hose or replace hose with correct size and length 8. Air pressure too low / use of an oiler in the airline will cause poor foam quality <ul style="list-style-type: none"> ◦ Adjust the air regulator slowly clockwise ◦ Use only clean, dry air 9. Soil has hardened on surface, rinse foam before it dries <ul style="list-style-type: none"> ◦ Reapplication may be necessary 	<ol style="list-style-type: none"> 10. Inlet orifice clogged <ul style="list-style-type: none"> ◦ Clean / clean inlet orifice / DO NOT DRILL OUT ◦ Install a strainer 11. Chemical build-up may have formed in the body causing reduced flow. <ul style="list-style-type: none"> ◦ Carefully remove fittings and soak entire body in descaling acid 12. Air regulator failed <ul style="list-style-type: none"> ◦ Clean or replace 13. Air check valve failed <ul style="list-style-type: none"> ◦ Clean or replace 14. No solution check valve installed or failed <ul style="list-style-type: none"> ◦ Install a check valve in the inlet ◦ Clean or replace

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.

