# Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

#### Model # 912918 · Rinse / A-40SS Airless Foam Hose Drop Station

REQUIREMENTS	
Chemical Concentrate	
Water	
Temperature	up to 180°F
Pressure	125 to 350 PSI
Flow	13.4 GPM @ 250 PSI
Supply Line	3/4"
Hose	
Foam	3/8" ID x 50'
Rinse	1/2" ID x 50'
Nozzle	
Foam	A-40SS Airless Foam Wand
Rinse	Trigger Gun, 1/2"

OPTIONS	
Stainless Steel Hose Racks	
Large Stainless Steel Hose Rack	# 224150
Stainless Steel Jug Racks	
Jug Rack, SS, 1 Gallon, Round/Square	# 224200
Jug Rack, SS, 2 1/2 Gallon	# 224210
Jug Rack, SS, 5 Gallon, Round/Square	# 224215
Safe Flow Lid™ for 1 Gallon Jugs	
Lid, Suction Tube, and Strainer	# 709101
Alternate Check Valve - EPDM Standard	
Check Valve, Chemical, SS, Viton, 1/4"	# 491324-V





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WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!

### **OVERVIEW**

The Rinse / A-40SS Airless Foam Hose Drop Station is a combination medium volume foam applicator for projecting foaming chemicals on to any surface up close or at a distance and for rinsing, without compressed air. This stainless steel venturi injection system uses boosted water pressure (125 - 350 PSI) to draw and blend chemical concentrate into the water stream to create an accurately diluted solution. The solution then flows through the discharge hose and trigger gun to the "airless" foam wand which draws in atmospheric air to create and project wet, clinging foam at distances up to 10'. Rinse at full pressure through a separate hose and adjustable pattern trigger gun.

#### **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.

#### TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

- 1. Mount the unit to a suitable surface above the chemical supply to prevent siphoning.
- 2. Connect the discharge hoses as shown in the diagram and close the inlet ball valves.
- 3. To prevent premature blocking of the "Y" strainer flush any new plumbing of debris prior to hooking up to the station..
- 4. Connect water supply

Set the chemical dilution ratio by threading one of the color coded metering tips into each chemical check valve. See chemical labels for dilution ratio recommendation or consult your chemical supplier.

- For the strongest dilution ratio do NOT install a colored metering tip.
- The dilution ratios in the metering tip chart are based on water thin chemicals with a viscosity of 1CPS.
- Thicker chemicals will require a larger tip than the ratios shown in the chart.
- Application results will ultimately determine final tip color.
- Select the tip color that is closest to your desired chemical strength and thread it into the tip holder. DO NOT OVER-TIGHTEN.
- Push the chemical tube over the check valve barb and place the suction tube in the chemical concentrate.
- If necessary, cut suction tube(s) to length before attaching suction strainer.

#### **TO FOAM**

- 1. Make final metering tip adjustments based on application results.
- 2. Open the inlet ball valve then pull the trigger to begin application.
- 3. When application is completed, release the trigger, return to the unit and close the inlet ball valve.
- 4. Squeeze the trigger to relieve pressure in hose. Rinse the work surface before solution dries.

#### TO RINSE

- 1. With trigger gun in hand open the inlet ball valve.
- 2. Pull the trigger and begin rinsing.
- 3. When rinsing is completed, release the trigger then close the inlet ball valve.
- 4. Briefly squeeze the trigger to relieve pressure in hose.

METERING TIP SELECTION			
METERING TIP COLOR	OZ/MIN	DILUTION RATIO @ 250 PSI	
		FOAM	RINSE
Brown	0.56	649:1	_
Clear	0.88	413:1	_
Bright Purple	1.38	263:1	_
White	2.15	169:1	_
Pink	2.93	124:1	_
Corn Yellow	3.84	95:1	_
Dark Green	4.88	74:1	_
Orange	5.77	63:1	_
Gray	6.01	60:1	_
Light Green	7.01	52:1	_
Med. Green	8.06	45:1	_
Clear Pink	9.43	39:1	_
Yellow Green	11.50	32:1	_
Burgundy	11.93	30:1	_
Pale Pink	13.87	26:1	_
Light Blue	15.14	24:1	_
Dark Purple	17.88	20:1	_
Navy Blue	25.36	14:1	_
Clear Aqua	28.60	_	_
Black	50.00	_	_
No Tip Ratio Up To:		13:1	
The dilution ratios above are approximate values. Due to			

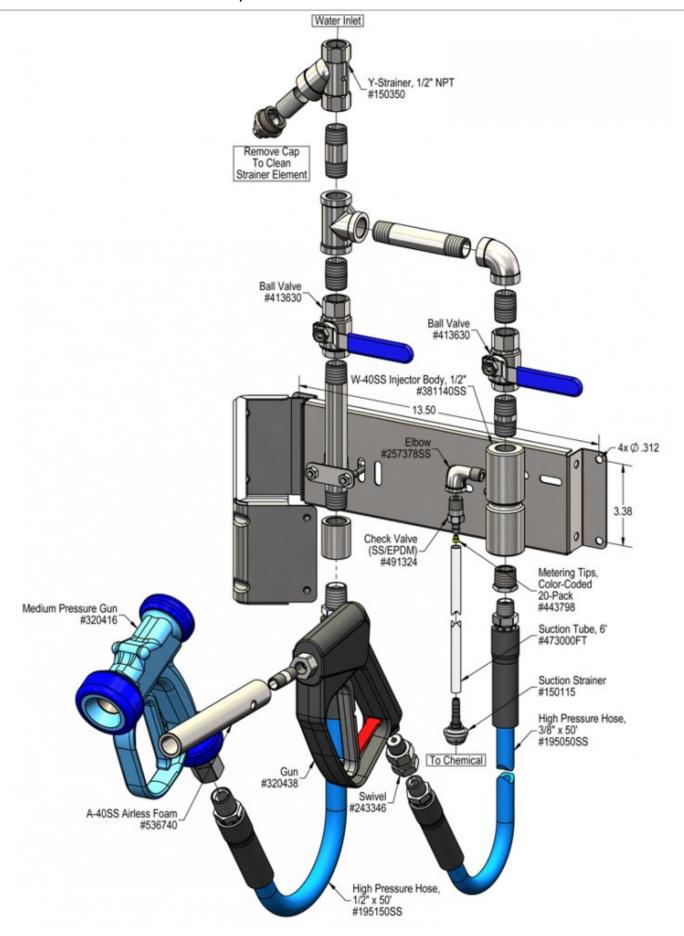
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

#### **FORMULA**

#### GPM × 128 ÷ Desired Dilution Ratio = oz/min

- See Unit Flow Rates chart for GPM
- Use 20 for 20:1 dilution ratio, 30 for 30:1, etc.
- Match calculated ounces per minute (oz/min) to nearest oz/min in Metering Tip Selection chart.

UNIT FLOW RATES			
DCI	GPM		
PSI	FOAM	RINSE	
125	2.01	9.49	
150	2.20	10.40	
200	2.54	12.01	
250	2.84	13.43	
300	3.11	14.71	
350	3.36	15.89	



## **Troubleshooting Guide**

Problem	Possible Cause / Solution		
	Startup	Maintenance	
A) Unit will not draw chemical	1, 5, 6, 7	10, 11, 12, 13, 14	
B) Foam does not clean or foam properly	2, 4, 5, 7, 8	10, 11, 12, 13, 14	
C) Using too much chemical	3		
D) Water backing up into chemical container		9	

Possible C	ause / Solution
Startup	Maintenance
1. Inlet ball valve not completely open	9. Chemical check valve stuck or failed
Completely open the ball valve.	<ul> <li>Clean/disassemble and turn seat over or order rebuikit.</li> </ul>
2. Not enough chemical - metering tip too small	THE STATE OF THE S
<ul> <li>Install larger metering tip.</li> </ul>	10. Chemical strainer or metering tip partially blocked  ○ Clean or replace chemical strainer and/or metering t
3. No metering tip installed or metering tip too large	Cicar of replace chemical strainer ana/or metering t
<ul> <li>Install smaller metering tip.</li> </ul>	11. Chemical tube stretched out or pin hole/cut in chemical tube (sucking air in)
4. Improper chemical	• Cut off end of tube or replace tube.
<ul> <li>Ensure product is recommended for foaming and the</li> </ul>	• Out on that of tabe of replace tabe.
application.	12. Vacuum leak in chemical pick-up connections
5. Chemical tube not immersed in chemical or chemical	∘ Tighten the connection.
depleted	13. Water strainer clogged or missing/injector inlet orifice
Immerse tube or replenish.	clogged
6. Discharge hose too long or wrong size (SEE	Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT.
REQUIREMENTS)	obstructions. Bo Not British con.
<ul> <li>Replace hose with correct size/length.</li> </ul>	14. Hard water scale or chemical build-up may have formed the injector body or foam wand causing poor or no
7. Water pressure or water volume too low/inlet piping too	chemical pick-up
small causing poor chemical pick up	Follow Preventive Maintenance instructions below,
<ul> <li>Increase water pressure or water volume (SEE REQUIREMENTS).</li> </ul>	using hot water and/or de-scaling acid. When there draw at all, carefully remove fittings and soak entire
8. Soil has hardened on surface; always rinse before it dries • Reapplication may be necessary.	injector body and/or foam wand in de-scaling acid.

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.

