Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 912905 · A-40SS Airless Foamer

REQUIREMENTS	
Chemical Concentrate	
Water	
Temperature	up to 180°F
Pressure	125 to 350 PSI
Flow	2.84 GPM @ 250 PSI
Supply Line	1/2"
Hose	3/8" ID x 50'
Nozzle	A-40SS Airless Foam Wand

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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OVERVIEW

The A-40SS Airless Foamer is a medium volume foam applicator for projecting foaming chemicals on to any surface up close or at distances up to 10 feet without compressed air. This 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.

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)

If you are connecting to a potable water supply follow all local codes for backflow prevention.

- 1. Mount the unit to a suitable surface above the chemical supply to prevent siphoning.
- 2. Connect hose(s) as shown in the diagram.
- 3. Flush any new plumbing of debris before connecting water.
- 4. Connect water supply. Install a water filter if water piping is older or has known contaminants.

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 OPERATE

- 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.

	METERING TIP SELECTION				
	IETERING TIP OLOR	OZ/MIN	DILUTION RATIO @ 250 PSI		
Br	own	0.56	649:1		
Cl	ear	0.88	413:1		
Bri	ight Purple	1.38	263:1		
W	hite	2.15	169:1		
Piı	nk	2.93	124:1		
Co	orn Yellow	3.84	95:1		
Da	ark Green	4.88	74:1		
Or	ange	5.77	63:1		
Gr	ay	6.01	60:1		
Liç	ght Green	7.01	52:1		
Me	ed. Green	8.06	45:1		
Cl	ear Pink	9.43	39:1		
Ye	ellow Green	11.50	32:1		
Bu	ırgundy	11.93	30:1		
Pa	lle Pink	13.87	26:1		
Liç	ght Blue	15.14	24:1		
Da	ark Purple	17.88	20:1		
Na	avy Blue	25.36	14:1		
Cl	ear Aqua	28.60	_		
Bla	ack	50.00			
No	No Tip Ratio Up To: 13:1				
	The dilution ratios above are approximate values. Due to				

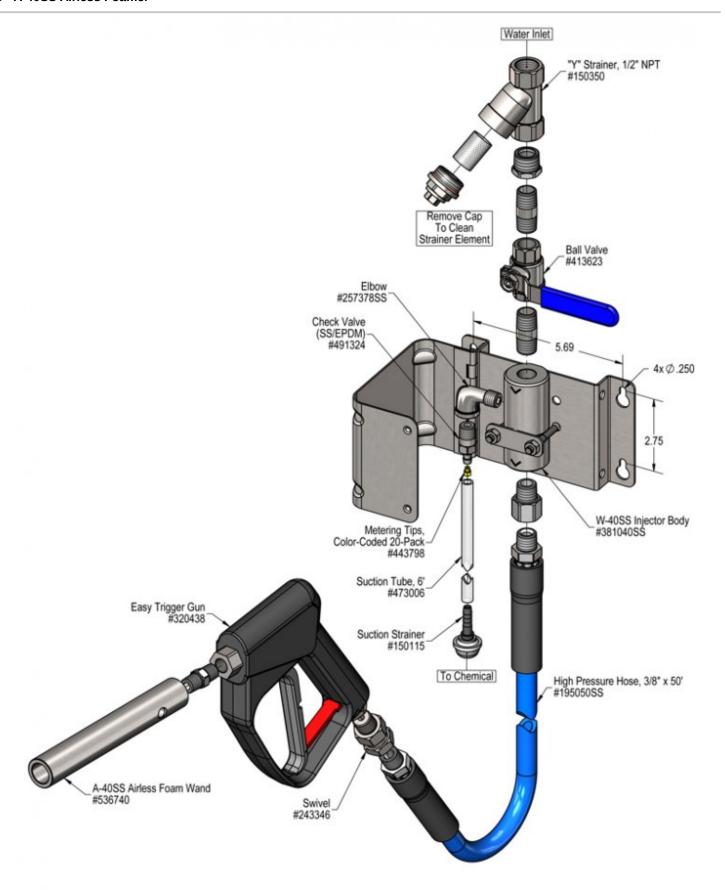
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

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		
PSI	GPM	
125	2.01	
150	2.20	
200	2.54	
250	2.84	
300	3.11	
350	3.36	



Troubleshooting Guide

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

