# Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

### Model # 912905HC · A-40SSHC Airless Foamer

# REQUIREMENTS Chemical Concentrate Water up to 180°F Pressure 125 to 350 PSI Flow 2.2 GPM @ 150 PSI Supply Line 1/2" Hose 3/8" ID x 50' Nozzle A50SS 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	e # 224200
Jug Rack, SS, 2 1/2 Gallon	# 224210
Jug Rack, SS, 5 Gallon, Round/Square	e # 224215
Safe Flow Lid™ for 1 Gallon Jugs	
Lid, Suction Tube, and Strainer	# 709101





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### **OVERVIEW**

The A-40SSHC Airless Foamer is a medium volume, "high concentrate" foam applicator that will produce strong dilution ratios for the toughest cleaning jobs without compressed air. Weaker dilution ratios are achieved with metering tips. This venturi injection system uses boosted water pressure (125 - 350 PSI) to draw and blend a high concentration of chemical concentrate into the water stream to create a strong solution. The accurately diluted 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 on to any surface up close or at distances up to 10 feet.

### **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 SELE	ECTION
METERING TIP COLOR	OZ/MIN	DILUTION RATIO @ 250 PSI
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	13:1
Black	50.00	7:1
No Tip Ratio Up To:		4:1

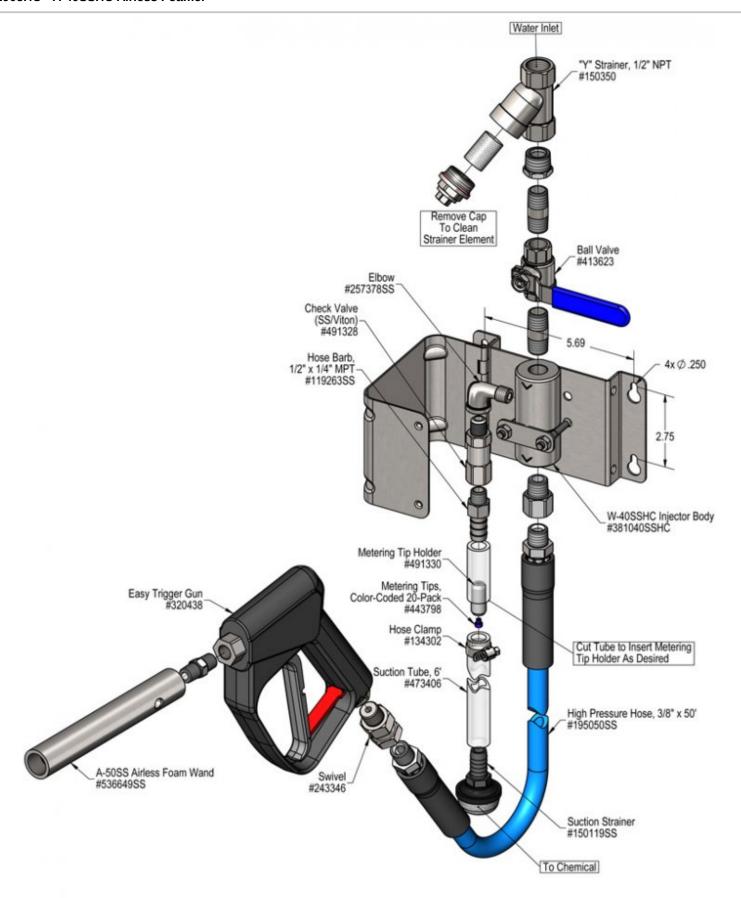
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

### **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 F	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	

9. Chemical check valve stuck or failed  • Clean/disassemble and turn seat over or order rebuild kit.  10. Chemical strainer or metering tip partially blocked  • Clean or replace chemical strainer and/or metering tip.  11. Chemical tube stretched out or pin hole/cut in chemical tube (sucking air in)
<ul> <li>Clean/disassemble and turn seat over or order rebuild kit.</li> <li>Chemical strainer or metering tip partially blocked</li> <li>Clean or replace chemical strainer and/or metering tip.</li> <li>Chemical tube stretched out or pin hole/cut in chemical</li> </ul>
<ul> <li>Clean or replace chemical strainer and/or metering tip.</li> <li>Chemical tube stretched out or pin hole/cut in chemical</li> </ul>
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<ul><li>Cut off end of tube or replace tube.</li><li>12. Vacuum leak in chemical pick-up connections</li></ul>
<ul> <li>Tighten the connection.</li> <li>Water strainer clogged or missing/injector inlet orifice clogged</li> </ul>
<ul> <li>Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT.</li> </ul>
<ul> <li>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         <ul> <li>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.</li> </ul> </li> </ul>

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.

