

Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 912910 · Portable 5 Gallon 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'
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Nozzle	A-40SS Airless Foam Wand
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OPTIONS

5 Gallon Pail

Pail, 5 Gallon Round W/ Suction Stem	# 709105
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Safe Flow Lid™ for 1 Gallon Jugs

Lid, Suction Tube, and Strainer	# 709101
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Square Jug Rack Conversion

Specify Round or Square Jug Racks at time of order

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 Portable 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. Featuring an all stainless steel cart assembly, 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.

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. Place a container of chemical concentrate in the jug rack(s).
2. Connect the hose(s) as shown in the diagram.
3. To prevent blocking the small water jets in the injector flush any new plumbing of debris before connecting water.
4. Connect water supply. If water piping is older or has known contaminants, install a water filter.

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

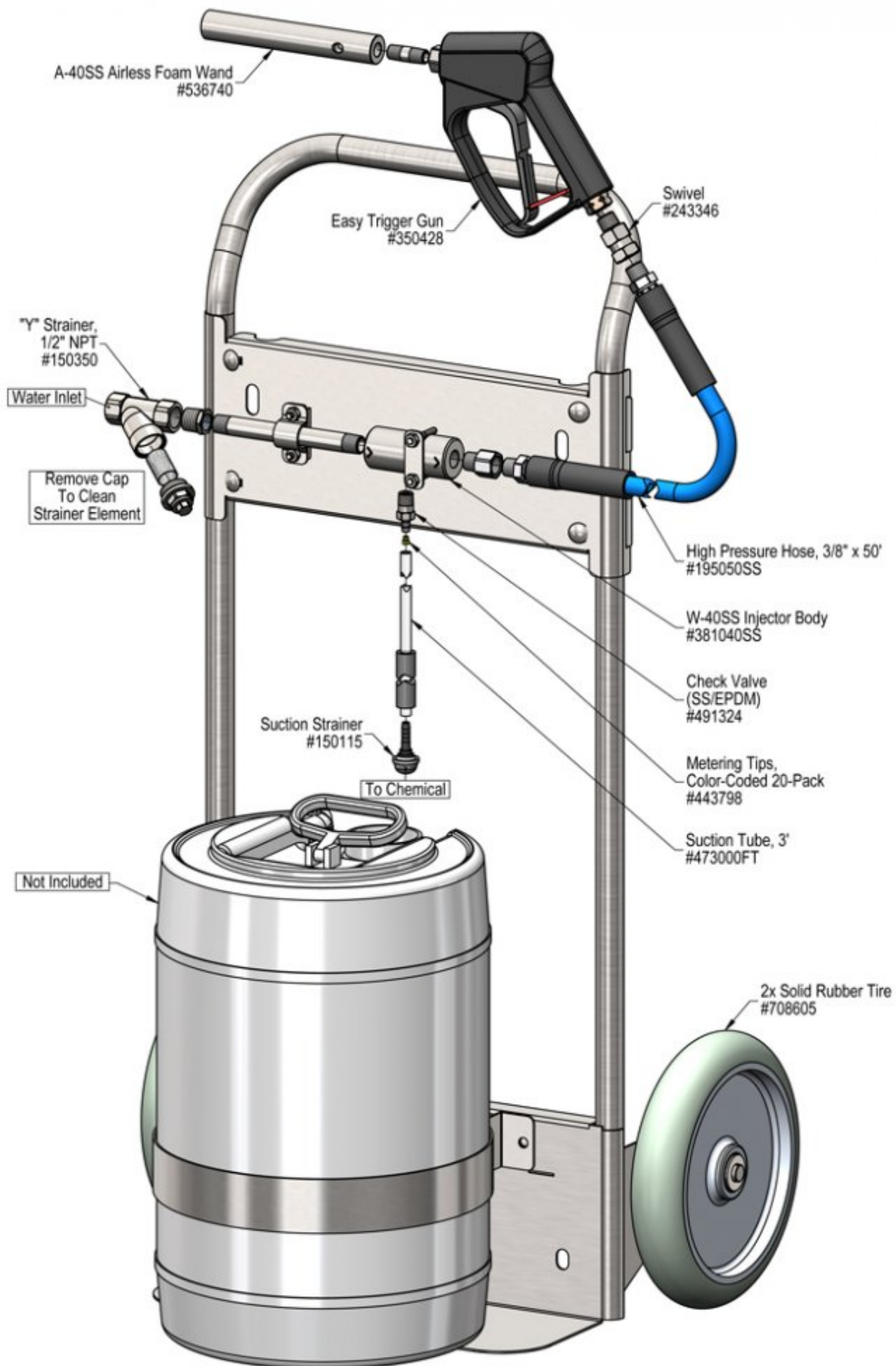
1. Make final metering tip adjustments based on application results.
2. Open the inlet ball valve then pull the trigger to begin application.
3. When application is completed, release the trigger, return to the unit and close the inlet ball valve.
4. Squeeze the trigger to relieve pressure in hose. Rinse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

METERING TIP SELECTION

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	—
Black	50.00	—
No Tip Ratio Up To:		13:1
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.		
FORMULA		
GPM × 128 ÷ Desired Dilution Ratio = oz/min <ul style="list-style-type: none"> • See <i>Unit Flow Rates</i> 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 <i>Metering Tip Selection</i> 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	
	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 Cause / Solution	
Startup	Maintenance
<ol style="list-style-type: none"> 1. Inlet ball valve not completely open <ul style="list-style-type: none"> ◦ Completely open the ball valve. 2. Not enough chemical - metering tip too small <ul style="list-style-type: none"> ◦ Install larger metering tip. 3. No metering tip installed or metering tip too large <ul style="list-style-type: none"> ◦ Install smaller metering tip. 4. Improper chemical <ul style="list-style-type: none"> ◦ Ensure product is recommended for foaming and the application. 5. Chemical tube not immersed in chemical or chemical depleted <ul style="list-style-type: none"> ◦ Immerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) <ul style="list-style-type: none"> ◦ Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up <ul style="list-style-type: none"> ◦ Increase water pressure or water volume (SEE REQUIREMENTS). 8. Soil has hardened on surface; always rinse before it dries <ul style="list-style-type: none"> ◦ Reapplication may be necessary. 	<ol style="list-style-type: none"> 9. Chemical check valve stuck or failed <ul style="list-style-type: none"> ◦ Clean/disassemble and turn seat over or order rebuild kit. 10. Chemical strainer or metering tip partially blocked <ul style="list-style-type: none"> ◦ 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 style="list-style-type: none"> ◦ Cut off end of tube or replace tube. 12. Vacuum leak in chemical pick-up connections <ul style="list-style-type: none"> ◦ Tighten the connection. 13. Water strainer clogged or missing/injector inlet orifice clogged <ul style="list-style-type: none"> ◦ Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT. 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 style="list-style-type: none"> ◦ 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.

