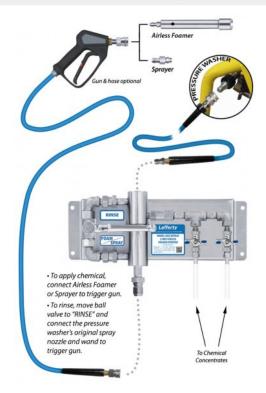
Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 969755 · Model 40 SS Bypass 2-Way Airless Foamer / Sprayer

REQUIREMENTS	
Chemical Concentrate	
Water	
Temperature	up to 180°F
Pressure	125 to 350 PSI
Flow	2.2 GPM @ 150 PSI
Hose	3/8" ID x 50'
Nozzle	A41 Airless Foam Wand

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OPTIONS	
Stainless Steel Hose Racks	
Large Stainless Steel Hose Rack	# 224150
Stainless Steel Jug Racks Available	
Safe Flow Lid™ for 1 Gallon Jugs	
Lid, Suction Tube, and Strainer	# 709101
Pressure Washer Hose & Trigger Gu	n
HP 3/8" x 50' Hose & Trigger Gun Kit	# 807069
Inlet Jumper Hose	
Hose, 3/8" x 6', High Pressure	# 195006
Hose, 3/8" x 15', SS, BNM, High Pressure	# 195015SS





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WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Model 40 SS Bypass 2-Way Airless Foamer/Sprayer is a wash/rinse system for quickly applying two chemicals and rinsing through the same hose. Using a 5 - 8 GPM pressure washer, this stainless steel venturi injection system draws and blends two separate chemicals or two different concentrations of the same chemical into the water stream to create an accurately diluted solution. The solution is then projected through the discharge hose and foam wand where it draws in atmospheric air to create wet, clinging foam. Use the spray nozzle to apply non-foaming chemicals and simply open the bypass ball valve to rinse at full volume and pressure.

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.

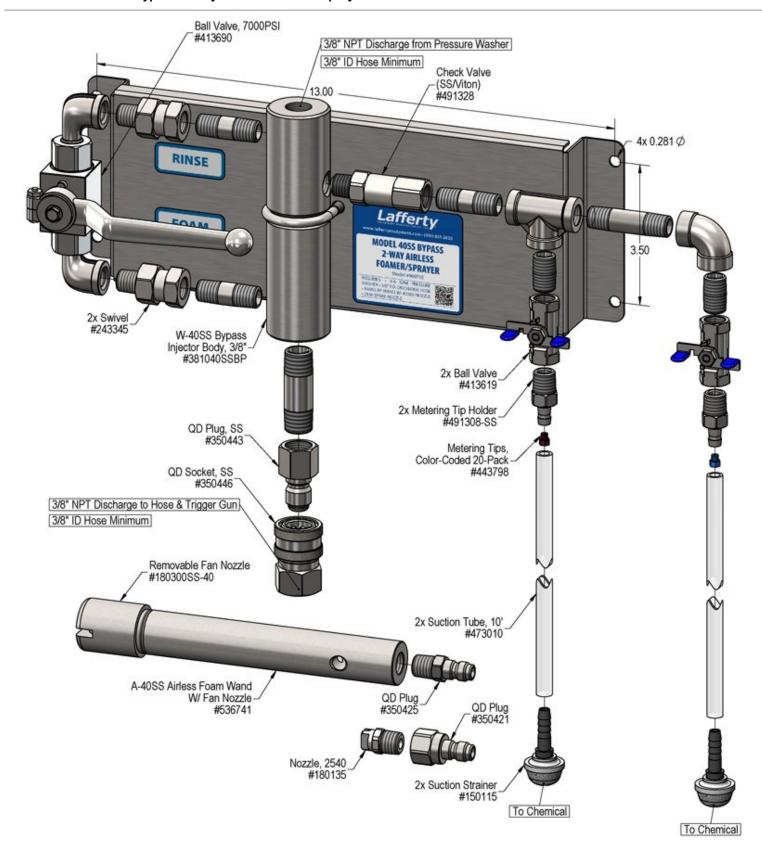
TO OPERATE

TO FOAM OR SPRAY

- 1. Remove the rinse nozzle and quick connect the foam wand or the spray nozzle to your trigger gun as shown in the diagram. If your trigger gun doesn't have quick disconnects you will have to install them.
- 2. Turn the by-pass ball valve to the "foam" position.
- 3. Open 1-chemical ball valve.
- 4. Hold the trigger gun firmly and direct the discharge in a safe direction. Pull the trigger and begin application.
- Make final metering tip adjustments based on application results. Try the next larger sized metering tip until the results are acceptable.
- 6. Repeat step 3 for additional chemicals

TO RINSE

- 1. When foaming/spraying is completed, release the trigger.
- Replace the airless foam wand or low pressure spray nozzle with the original pressure washer rinse nozzle or the included rinse nozzle (provided with select models).
- 3. Close the chemical ball valves, and open the by-pass ball valve.
- 4. Rinse the work surface as you normally would and rinse before the chemical dries.
- 5. If the unit will not be used for a period of time it is BEST to draw fresh water through the pick up tube(s) to prevent chemical from drying inside the components.



Troubleshooting Guide

Problem		Possible Cause / Solution	
	Startup	Maintenance	
A) Unit will not draw chemical.	1, 2, 3, 7	8, 9, 10, 11, 12, 13	
B) Does not foam properly	1, 4, 5, 7	8, 9, 11, 12	
C) Using too much chemical	6		

Possible C	ause / Solution	
Startup	Maintenance	
Water volume too low See requirements.	8. Chemical check valve stuck, clogged, loose or failedClean, tighten or rebuild.	
2. Water inlet clogged • Clean the water inlet. DO NOT DRILL OUT	 9. Chemical strainer or metering tip blocked • Clean or replace chemical strainer and/or metering tip. 	
3. Hose size too small ∘ MUST be 3/8" ID hose, minimum	10. Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube (sucking air in) whice reduces chemical intake. Chemical tube not immersed in chemical or depleted. Cut off end of tube, replace tube or immerse tube in chemical 	
4. Ensure chemical is recommended for foaming and/or the application • Refer to chemical manufacturer.		
5. Dilution too weak / Chemical is very thick.• Install larger metering tip or remove metering tip.	11. Discharge nozzle is wrong size o Install correct nozzle (see parts drawing)	
Dilution too strong / No metering tip installed or wrong metering tip installed	 Use only provided nozzles/wands for chemical application 	
 Install a metering tip or install a smaller metering tip If the exact dilution ratio cannot be achieved with metering tips, pre-dilute the chemical with water before drawing it into the injector for final dilution and application 	 12. Chemical build-up or hard water scale may have formed in the foam wand or injector body causing poor or no chemical pick-up Follow Preventive Maintenance instructions below, using hot water and/or descaling acid. When there is remaining the content of the conte	
 7. Hose too long Use a shorter discharge hose to alleviate back pressure on the injector 	draw at all, carefully remove inlet fitting and chemical check valve. Soak injector body and or foam wand in de-scaling acid.	
 The allowable length of hose varies based on individual pressure washers and equipment setups. 200' max recommended hose length between injector and nozzle. Longer hose could affect dilution ratios. 	• Close bypass valve.	

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.

