Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 969725 · Model 40 SS Combo Airless Foamer / Sprayer Kit

REQUIREMENTS Water Temperature up to 180°F Pressure Washer 5.5 - 8.0 GPM Discharge Hose 1/2" ID recommended

OPTIONS

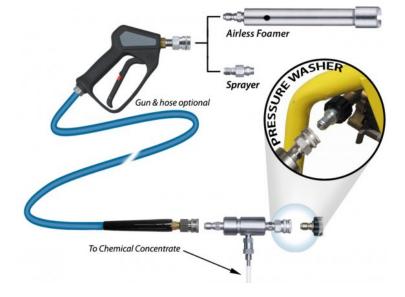
Stainless Steel Hose Racks
Large Stainless Steel Hose Rack # 224150

Safe Flow Lid™ for 1 Gallon Jugs

709101

Lid, Suction Tube, and Strainer

Drum & Tote Sticks Available





www.laffertyequipment.com 501-851-2820

WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!

OVERVIEW

Designed for 5.5–8.0 GPM pressure washers. The Model 40 Stainless Steel Combo Airless Foamer / Sprayer Kit is a **high volume** airless foam and spray applicator featuring a quick connect chemical injector that attaches to a pressure washer outlet. This venturi unit draws and blends chemical concentrate into the water stream to create an accurately diluted solution. The solution then flows through the hose and gun to the airless foam wand which injects atmospheric air to create and project wet, clinging foam on to surfaces up close or at distances up to 30 feet with interchangeable fan and zero degree nozzles. Quick connect the fan pattern sprayer nozzle to apply non-foaming chemicals.

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)

- Determine which way the quick disconnects will be used on your particular washer and install the quick disconnects to the injector body. Make sure to hook up in the right direction. Do NOT hook up backwards!
- 2. Quick disconnect the hose from PW and quick couple the injector to the fitting; reconnect the discharge hose to the discharge of the injector.

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

- Thread the fan nozzle cap on the end of the foam wand to create a wide pattern for faster coverage. Remove the fan nozzle for increased foam throw distance.
- Remove the rinse nozzle and quick connect the foam wand to your trigger gun as shown in the diagram. If your trigger gun doesn't have quick disconnects you will have to install them.
- 3. 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.

TO SPRAY

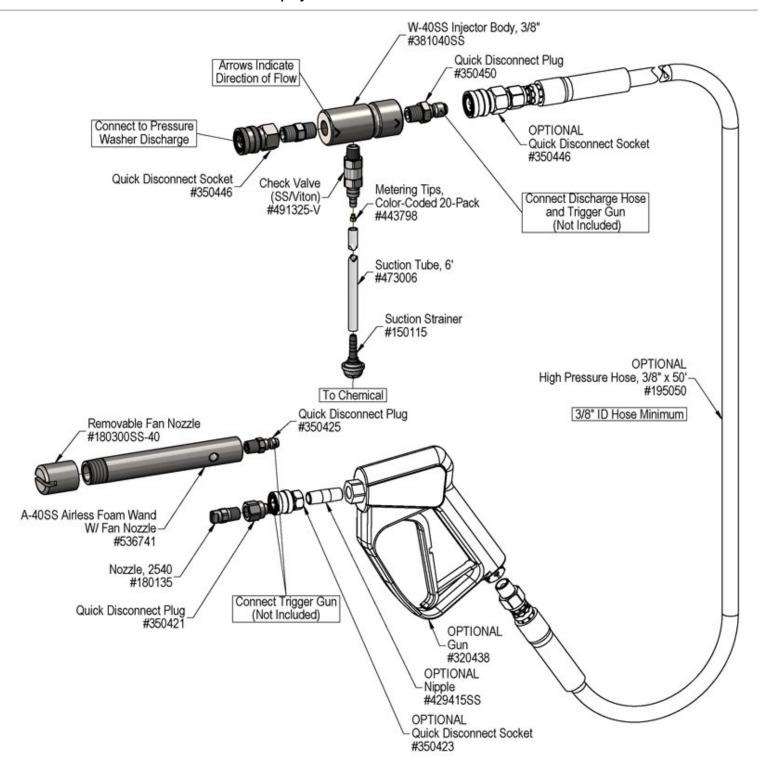
- 1. Quick connect the spray nozzle to your trigger gun as shown in the diagram.
- 2. Hold the trigger gun firmly and direct the discharge in a safe direction. Pull the trigger and begin application.

TO RINSE

- 1. When foaming or spraying is completed, release the trigger.
- Replace the airless foamer or spray nozzle with the rinse nozzle. Remove injector from pressure washer and replace hose.
- 3. Rinse the work surface as you normally would and rinse before the chemical dries.
- 4. If the foamer /sprayer will not be used for a period of time it is BEST to draw fresh water through the pick up tube to prevent chemical from drying inside the components.

METERING TIP SELECTION						
METERING TIP COLOR	DILUTION RATIO AT GPM					
	6.0	6.5	7.0	7.5	8.0	
Brown	1371:1	1486:1	1600:1	1714:1	1829:1	
Clear	873:1	945:1	1018:1	1091:1	1164:1	
Bright Purple	557:1	603:1	649:1	696:1	742:1	
White	357:1	387:1	417:1	447:1	476:1	
Pink	262:1	284:1	306:1	328:1	349:1	
Corn Yellow	200:1	217:1	233:1	250:1	267:1	
Dark Green	157:1	170:1	184:1	197:1	210:1	
Orange	133:1	144:1	155:1	166:1	177:1	
Gray	128:1	138:1	149:1	160:1	170:1	
Light Green	110:1	119:1	128:1	137:1	146:1	
Med. Green	95:1	103:1	111:1	119:1	127:1	
Clear Pink	81:1	88:1	95:1	102:1	109:1	
Yellow Green	67:1	72:1	78:1	83:1	89:1	
Burgundy	64:1	70:1	75:1	80:1	86:1	
Pale Pink	55:1	60:1	65:1	69:1	74:1	
Light Blue	51:1	55:1	59:1	63:1	68:1	
Dark Purple	43:1	47:1	50:1	54:1	57:1	
Navy Blue	30:1	33:1	35:1	38:1	40:1	
Clear Aqua	27:1	29:1	31:1	34:1	36:1	
Black	15:1	17:1	18:1	19:1	20:1	
No Tip Ratio Up To:	11:1	12:1	13:1	14:1	15:1	

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



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 failed • Clean, 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) which			
4. Ensure chemical is recommended for foaming and/or the application	reduces chemical intake. Chemical tube not immersed in chemical or depleted. • Cut off end of tube, replace tube or immerse tube in			
Refer to chemical manufacturer.	chemical			
5. Dilution too weak / Chemical is very thick.o Install larger metering tip or remove metering tip.	11. Discharge nozzle is wrong size • Install correct nozzle (see parts drawing)			
6. 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 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 draw at all, carefully remove inlet fitting and chemical check valve. Soak injector body and or foam wand in de-scaling acid.			
 7. Hose too long Use a shorter discharge hose to alleviate back pressure on the injector 				
 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. 	13. Bypass ball valve open (Bypass models only) • 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.

