Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 917905 · A-20SS Airless Foamer

REQUIREMENTS Chemical Concentrate Water Up to 180°F Pressure 400 to 1000 PSI Flow 3.1 GPM @ 700 PSI Supply Line 3/8" Hose 3/8" ID x 50' Nozzle A-20 Airless Foam Wand

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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 Standa	ard
Check Valve, Chemical, SS, Viton, 1/4"	# 491324-V
Check Valve, Chemical, SS, Viton, 1/4"	# 491324-V





www.laffertyequipment.com 501-851-2820



OVERVIEW

The A-20SS Airless Foamer is a 3.1 GPM @ 700 PSI foam applicator for projecting foaming chemicals on to any surface up close or at a distance without compressed air. This stainless steel venturi injection system uses high water pressure (400 - 1000 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 at distances up to 12 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. A fan nozzle for fast coverage or a zero degree nozzle for distance are included.
- 2. Select and install the nozzle you want to use in the foam wand.
- 3. With trigger gun in hand, open the water supply.
- 4. Pull the trigger and begin application.
- 5. When application is completed, release the trigger then shut off the water supply.
- 6. Briefly squeeze the trigger to relieve pressure in hose.
- 7. Make final metering tip adjustments based on foam quality and cleaning results.

METERING TIP SELECTION				
METERING TIP COLOR	OZ/MIN	DILUTION RATIO @ 700 PSI		
Brown	0.56	711:1		
Clear	0.88	452:1		
Bright Purple	1.38	288:1		
White	2.15	185:1		
Pink	2.93	136:1		
Corn Yellow	3.84	104:1		
Dark Green	4.88	82:1		
Orange	5.77	69:1		
Gray	6.01	66:1		
Light Green	7.01	57:1		
Med. Green	8.06	49:1		
Clear Pink	9.43	42:1		
Yellow Green	11.50	35:1		
Burgundy	11.93	33:1		
Pale Pink	13.87	29:1		
Light Blue	15.14	26:1		
Dark Purple	17.88	22:1		
Navy Blue	25.36	16:1		
Clear Aqua	28.60	14:1		
Black	50.00	8:1		
No Tip Ratio Up To: 7:1				
The dilution ratios above are approximate values. Due to				

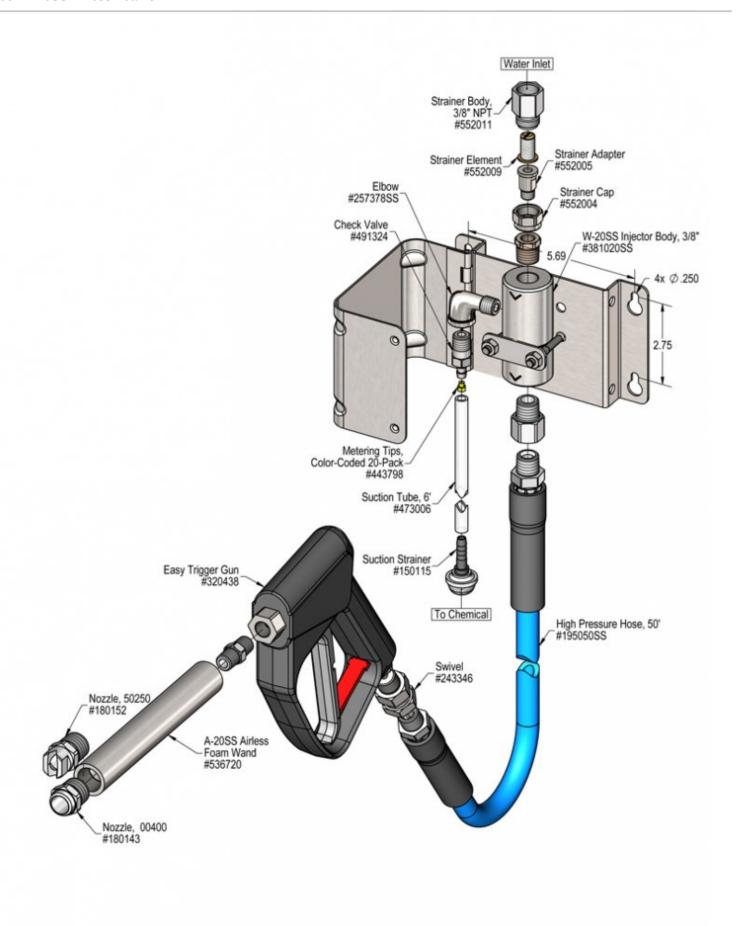
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

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	
400	2.35	
500	2.63	
600	2.88	
700	3.11	
800	3.32	
900	3.53	
1000	3.72	



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

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.

