Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 917910 · Portable 5 Gallon A-20SS Airless Foamer

REQUIREMENTS	
Chemical Concentrate	
Water	
Temperature	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	
5 Gallon Pail Pail, 5 Gallon Round W/ Suction Stem	# 709105
Square Jug Rack Conversion Specify Round or Square Jug Racks at	t time of order
Safe Flow Lid™ for 1 Gallon Jugs	
Lid, Suction Tube, and Strainer	# 709101
Alternate Check Valve - EPDM Stand Check Valve, Chemical, SS, Viton, 1/4	





www.laffertyequipment.com 501-851-2820

WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!

OVERVIEW

The Portable 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. Featuring an all stainless steel cart assembly, 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)

- 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 @ 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		
ı	Clear Aqua	28.60	14:1		
	Black	50.00	8:1		
	No Tip Ratio Up To:		7:1		
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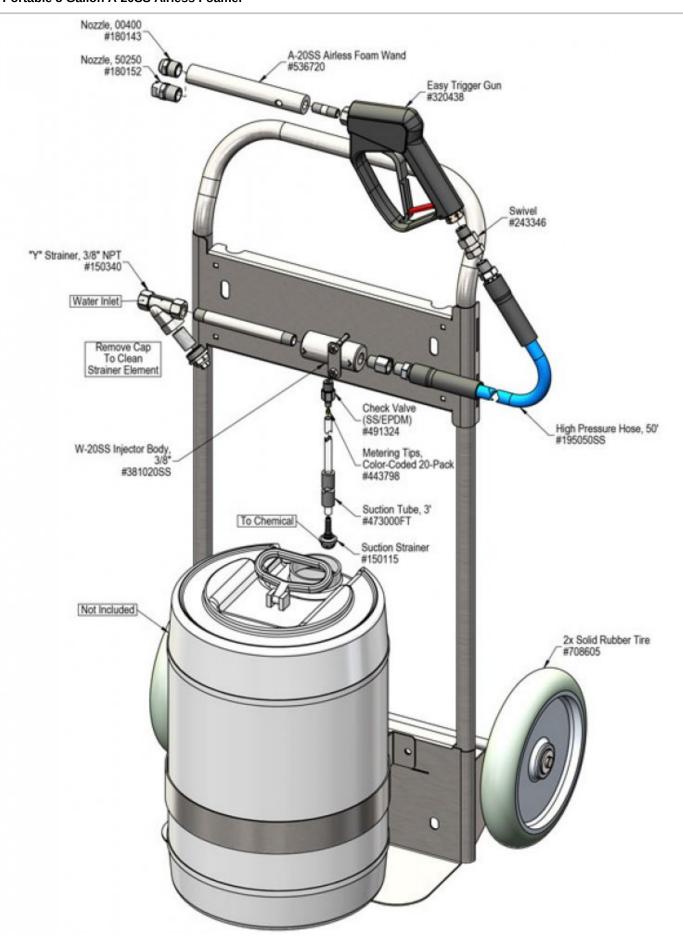
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

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			
GPM			
2.35			
2.63			
2.88			
3.11			
3.32			
3.53			
3.72			



Troubleshooting Guide

Problem	Possible Cause / Solution		
	Startup	Maintenance	
	1 ' ' '	10, 11, 12, 13, 14 10, 11, 12, 13, 14 9	

 ○ Completely open the ball valve. 2. Not enough chemical - metering tip too small	
 ○ Completely open the ball valve. 2. Not enough chemical - metering tip too small	Maintenance
2. Not enough chemical - metering tip too small ○ Install larger metering tip. 3. No metering tip installed or metering tip too large ○ Install smaller metering tip. 4. Improper chemical ○ Ensure product is recommended for foaming and the application. 5. Chemical tube not immersed in chemical or chemical depleted ○ Immerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) ○ Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up ○ Increase water pressure or water volume (SEE	al check valve stuck or failed
2. Not enough chemical - metering tip too small Install larger metering tip. 3. No metering tip installed or metering tip too large Install smaller metering tip. 4. Improper chemical Ensure product is recommended for foaming and the application. 5. Chemical tube not immersed in chemical or chemical depleted Inmerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE	Clean/disassemble and turn seat over or order rebukit.
3. No metering tip installed or metering tip too large ○ Install smaller metering tip. 4. Improper chemical ○ Ensure product is recommended for foaming and the application. 5. Chemical tube not immersed in chemical or chemical depleted ○ Immerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) ○ Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up ○ Increase water pressure or water volume (SEE	ut.
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 Install smaller metering tip. Improper chemical Ensure product is recommended for foaming and the application. Chemical tube not immersed in chemical or chemical depleted Immerse tube or replenish. Discharge hose too long or wrong size (SEE REQUIREMENTS) Replace hose with correct size/length. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE 	Clean or replace chemical strainer and/or metering
4. Improper chemical • Ensure product is recommended for foaming and the application. 5. Chemical tube not immersed in chemical or chemical depleted • Immerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) • Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up • Increase water pressure or water volume (SEE	1
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 Ensure product is recommended for foaming and the application. Chemical tube not immersed in chemical or chemical depleted Immerse tube or replenish. Discharge hose too long or wrong size (SEE REQUIREMENTS) Replace hose with correct size/length. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE 	ucking air in)
application. 5. Chemical tube not immersed in chemical or chemical depleted	Cut off end of tube or replace tube.
5. Chemical tube not immersed in chemical or chemical depleted olimitian immersed in chemical or chemical depleted olimitian immersed in chemical or chemical or chemical depleted lia. Water is clogged clog	
5. Chemical tube not immersed in chemical or chemical depleted olimitation immersed in chemical or chemical depleted olimitation immersed in chemical or chemical or chemical depleted lia. Water so clogged	n leak in chemical pick-up connections
depleted olimiters tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) olimiters replenish. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up olimiters replenish. 13. Water so clogged 14. Hard water injection chemical pick up olimiters repressure or water volume (SEE REQUIREMENTS)	Tighten the connection.
o Immerse tube or replenish. 6. Discharge hose too long or wrong size (SEE REQUIREMENTS) o Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up o Increase water pressure or water volume (SEE	trainer clogged or missing/injector inlet orifice
6. Discharge hose too long or wrong size (SEE REQUIREMENTS) Replace hose with correct size/length. 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE	
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REQUIREMENTS) Replace hose with correct size/length. 14. Hard was the injection of the in	,
 Replace hose with correct size/length. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE 	obstructions. DO NOT DRILL OUT.
7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up olicrease water pressure or water volume (SEE	ater scale or chemical build-up may have forme
7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up olicrease water pressure or water volume (SEE	ctor body or foam wand causing poor or no
small causing poor chemical pick up o Increase water pressure or water volume (SEE	al pick-up
Increase water pressure or water volume (SEE BEOLIDEMENTS)	Follow Preventive Maintenance instructions below,
DEOLIDEMENTS)	using hot water and/or de-scaling acid. When there
	draw at all, carefully remove fittings and soak entire
	njector body and/or foam wand in de-scaling acid.
8. Soil has hardened on surface; always rinse before it dries • Reapplication may be necessary.	njector body and/or roam 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.

