Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 975086 · Portable 5 Gallon Uni-Body A-25 Airless Foamer

REQUIREMENTS			
Chemical Concentrate			
Water			
Temperature	up to 160°F		
Pressure	35 to 125 PSI		
Flow	1.34 GPM @ 40 PSI		
Supply Line	1/2"		
Hose	1/2" ID x 25'		
Nozzle	A-25 Airless Foam Wand		

OPTIONS	
5 Gallon Pail	
Pail, 5 Gallon Round W/ Suction Stem	# 709105
Square Juq Rack Conversion	
Specify Round or Square Jug Racks at time of order	
Stainless Steel Airless Foam Wand	
Wand, SS, Airless Foam, A-25SS	# 536625SS
vvaria, ce, variess i sam, v 2000	# 00002000
Alternate Check Valve - EPDM Standard	
Check Valve, Chemical, PP/Viton, 1/4"	# 491315





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WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!

OVERVIEW

The Portable Uni-Body A-25 Airless Foamer is a medium volume foam applicator featuring an all stainless steel cart assembly. It will project foaming chemicals on to any surface up close or at distances up to 6 feet without compressed air. This venturi injection system uses standard city water pressure (35 - 125 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 to the airless foam wand which draws in atmospheric air to create and project wet, clinging foam.

SAFETY & OPERATIONAL PRECAUTIONS

- When connecting to a potable water supply follow all local codes for backflow prevention.
- WARNING: Severe damage to your facility, or contamination of your potable water supply, can occur
 without proper backflow prevention.
- 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 safety goggles when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- For pressures over 100 PSI, remove the discharge valve or lower pressure.
- Never leave inlet ball valves on when unit is not in use.
- Follow the chemical manufacturer's safe handling instructions.
- NEVER mix chemicals without first consulting chemical manufacturer.

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

<u>Always</u> make sure the discharge ball valve is closed or pointed in a safe direction before turning water on. Ball valve can be shut off at any time during operation but should not be left unattended for long periods of time.

- 1. Open the inlet ball valve then open the discharge ball valve to begin application.
- 2. Make final metering tip adjustments based on application results.
- When application is completed, close the discharge ball valve, return to the unit and close the inlet ball valve. Reopen the discharge ball valve to relieve pressure in hose then close the discharge ball valve. If applicable rinse the work surface before solution dries.

	METERING TIP SELECTION		
	METERING TIP COLOR	OZ/MIN	DILUTION RATIO @ 40 PSI
	Brown	0.56	306:1
	Clear	0.88	195:1
ı	Bright Purple	1.38	124:1
	White	2.15	80:1
	Pink	2.93	59:1
	Corn Yellow	3.84	45:1
	Dark Green	4.88	35:1
	Orange	5.77	30:1
	Gray	6.01	29:1
	Light Green	7.01	24:1
	Med. Green	8.06	21:1
	Clear Pink	9.43	18:1
	Yellow Green	11.50	15:1
	Burgundy	11.93	14:1
	Pale Pink	13.87	12:1
	Light Blue	15.14	11:1
	Dark Purple	17.88	10:1
	Navy Blue	25.36	7:1
	Clear Aqua	28.60	
	Black	50.00	_
	No Tip Ratio Up To:		6:1
	The dilution ratios above are approximate values. Due to		

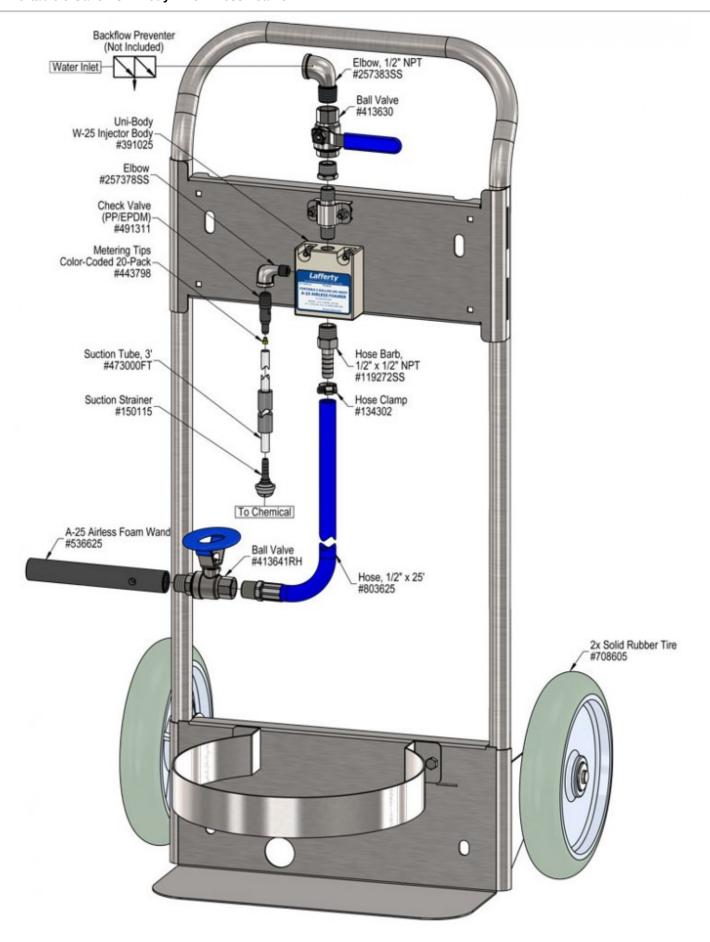
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

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		
35	1.25		
40	1.34		
50	1.50		
60	1.64		
70	1.77		
80	1.90		
90	2.01		
100	2.12		
110	2.22		
120	2.32		
125	2.37		



Troubleshooting Guide

Problem	Po	Possible Cause / Solution	
	Startup	Maintenance	
A) Will not draw chemical	1, 5, 6, 7, 8, 10	11, 12, 13, 14, 15, 16, 17	
B) Foam does not clean or foam properly	2, 4, 5, 7, 8, 9	10, 11, 12, 13, 14, 15, 16	
C) Using too much chemical	3		
D) Water backing up into chemical container	10		

Possible Cause / Solution				
Startup	Maintenance			
1. Inlet ball valve not completely open Completely open the inlet ball valve.	10. Chemical check valve stuck or failed ∘ Clean or replace.			
2. Not enough chemical - metering tip too smallo Install larger metering tip.	11. Chemical strainer or metering tip partially blocked • Clean or replace chemical strainer and/or metering tip.			
3. No metering tip installed or metering tip too largeo Install smaller metering tip.	12. Chemical tube stretched out or pin hole/cut in chemical tube • Cut off end of tube or replace tube.			
4. Improper chemicalEnsure product is recommended for foaming and the application.	13. Vacuum leak in chemical pick-up connections • Tighten the connection.			
5. Chemical tube not immersed in chemical or chemical depleted • Immerse tube or replenish.	14. Water strainer clogged or missing/injector inlet orifice clogged • Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT.			
 6. Discharge hose too long or wrong size or kinked Straighten the hose or replace hose with correct size. 7. Discharge ball valve not completely open Completely open the discharge ball valve. 	15. Hard water scale or chemical build-up may have formed in the injector body causing poor or no chemical pick-up • Follow Preventive Maintenance instructions below, using hot water and/or de-scaling acid. When there is no			
Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume	draw at all, carefully remove fittings and soak entire injector body in de-scaling acid. 16. Foam wand clogged or scaled up / wrong nozzle			
 9. Soil has hardened on surface; always rinse before chemical dries Reapplication may be necessary. 	 Hard water scale or chemical build-up may have formed, soak entire foam wand in de-scaling acid / see requirements. 			
	17. More than one chemical ball valve open or no chemical valve open o 2 & 3 Way models only			

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.

