

AFCO Installation & Operation Instructions

Model #AF 915635 • Drum Mount LC Foamer

REQUIREMENTS

Chemical Concentrate

Water

Temperature	up to 160°F
Pressure	35 - 125 PSI
Flow	1.34 GPM @ 40 PSI
Supply Line	1/2"

Compressed Air up to 3 CFM

Hose 3/4" x 40'

Nozzle 50250

OPTIONS

Drum & Tote Stick Lengths, Styles & Seal Materials

Drum Stick, 33" (Viton or EPDM)	# 491643 / 491643-E
Drum Stick, 48" (Viton or EPDM)	# 491648 / 491648-E
Drum Stick, 54" (Viton or EPDM)	# 491645 / 491645-E
Tote Stick, 48" (Viton or EPDM)	# 491654 / 491654-E
Tote Stick, 54" (Viton or EPDM)	# 491656 / 491656-E

Alternate Check Valves - EPDM Standard

Check Valve, Chemical, PP/Viton, 1/4"	# 491315
Check Valve, Air, SS/Viton, 1/4"	# 491306

WEIGHT & DIMENSIONS

Shipping Weight: 24 lbs.

Shipping Dimensions: 27" x 19" x 9"



<http://www.afcocare.com>

**READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**

Overview

The Drum Mount LC Foamer is a medium volume foam applicator that straps directly to a drum or tote of chemical concentrate. This venturi injection system uses standard city water pressure (35 - 125 PSI) to draw and blend chemical concentrate directly from the drum into the water stream to create an accurately diluted solution. Rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability. The foam is then projected through the hose and fan nozzle on to any surface up close or at distances up to 12 feet.

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Safety & Operational Precautions

- When connecting to a potable water supply follow all local codes for 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 eye wear 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, NEXT PAGE.)

If you are connecting to a potable water supply follow all local codes for backflow prevention.

1. Mount the foamer to the drum.
2. Once metering tip is installed attach the pick-up tube and feed it through the bung hole.
3. Connect the discharge hose.
4. Connect water supply, to prevent blocking the small water jets in the foamer body flush any new plumbing of debris before connecting. If water piping is older and has known contaminants install a filter.
5. Connect air supply, if air line is older and has known contaminants install a 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 strainer in the chemical concentrate.

TO OPERATE

1. Make final metering tip adjustments based on application results.
2. With wand in hand open the water ball valve, and the air ball valve.
3. Open the discharge ball valve.
 - Wait a few seconds and observe foam consistency.
 - Use the least amount of air needed to achieve good foam quality to prevent water pressure fluctuations from affecting performance. Air pressure must be kept lower than water pressure.
 - To adjust the foam consistency pull out on the air regulator knob, turn slightly clockwise for dryer foam and counterclockwise for wetter foam. Wait a few seconds to see each adjustment.
 - Medium wet foam will give the best cleaning results! Dry foam will NOT clean as well!
 - You may also have to try different sized metering tips and air settings until foam consistency and cleaning results are acceptable. Once this is set and desired foam consistency is achieved push lock the knob on the air regulator. You are ready to start application.
4. When foaming is completed, close the discharge ball valve, return to the unit and close the water and air ball valves. Briefly re-open the discharge ball valve to relieve pressure in the hose.
5. Rinse before the foam dries.

Metering Tip Selection Chart

Metering Tip Color	Oz. per Min.	Example: Dilution Ratio @ 40 PSI
Brown	.56	306:1
Clear	.88	195:1
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 6.0:1	

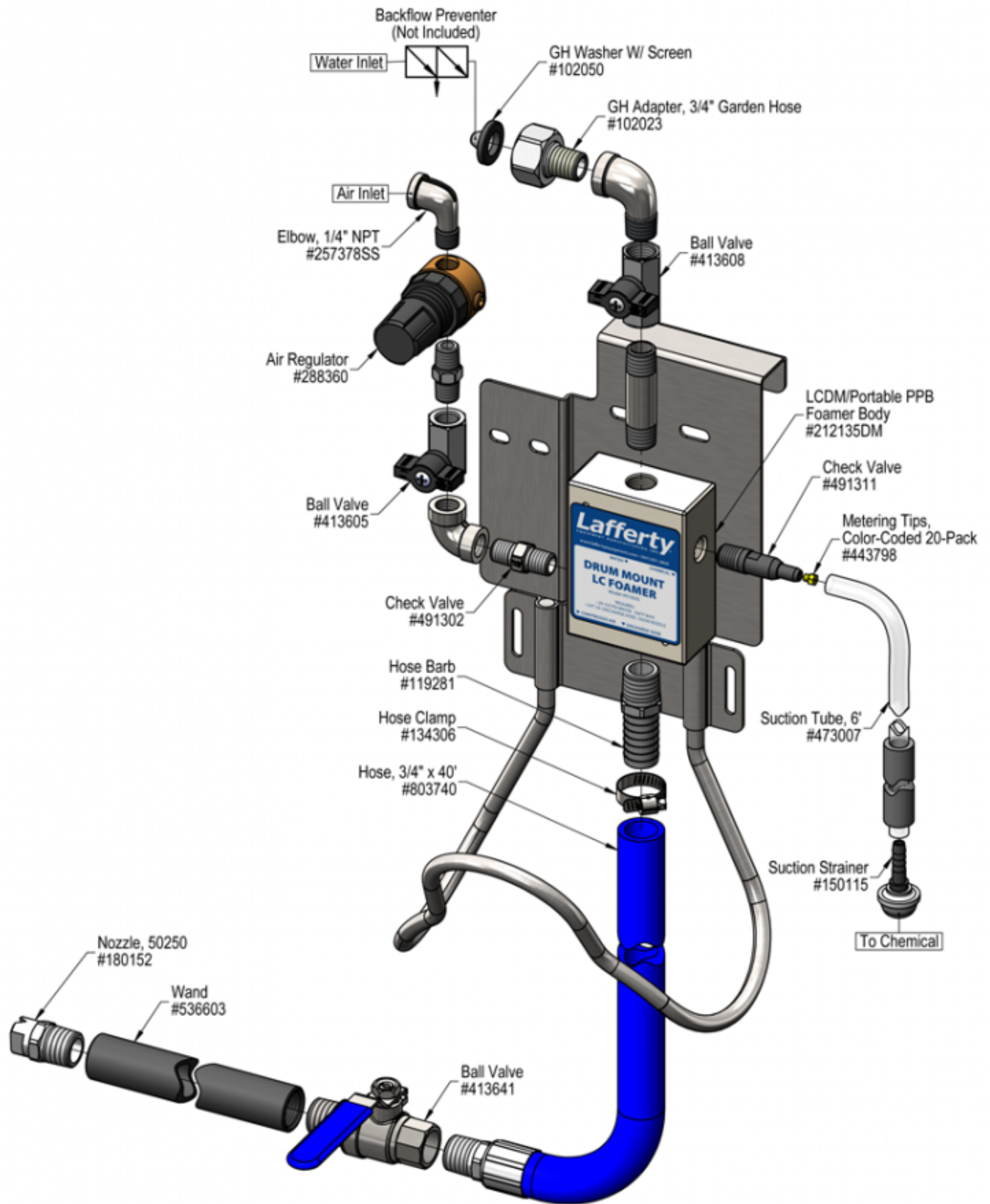
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

Metering Tip Selection Formula

$$\frac{\text{(GPM} \times 128\text{)}}{\text{Dilution Ratio}} = \text{Oz. per Min}$$

Flow Rate Chart

Pressure	Flow Rate
PSI	GPM
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



Troubleshooting Guide

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Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Foam surges and/or hose "bucks".	1, 2, 3, 4, 6, 7, 8, 9, 10	12, 13, 14, 15, 16, 18, 19
B) Foamer will not draw chemical.	1, 3, 4, 7, 8, 9, 10	12, 13, 14, 15, 16, 18, 19
C) Foam too wet.	2, 3, 4, 6, 7, 8, 9, 10	13, 14, 15, 16, 18, 19
D) Foam does not clean properly (too dry).	1, 4, 6, 11	
E) Using too much chemical.	5	
F) Water/chemical backing up into air line.		17
G) Water backing up into chemical container.		18
H) Air/chemical solution backing up into water line.		20

Possible Cause / Solution	
Startup	Maintenance
<ol style="list-style-type: none"> 1. Air pressure too high <ul style="list-style-type: none"> ◦ Adjust the air regulator slowly counterclockwise until output stabilizes. 2. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up <ul style="list-style-type: none"> ◦ Increase water pressure or water volume (SEE REQUIREMENTS). 3. Inlet, discharge ball valve not completely open, or chemical ball valve not open (2 & 3-Way) <ul style="list-style-type: none"> ◦ Completely open the inlet, discharge and chemical ball valves. 4. Not enough chemical - metering tip too small <ul style="list-style-type: none"> ◦ Install larger metering tip. 5. No metering tip installed or metering tip too large <ul style="list-style-type: none"> ◦ Install smaller metering tip. 6. Improper chemical <ul style="list-style-type: none"> ◦ Ensure product is recommended for foaming and the application. 7. Chemical tube not immersed in chemical or depleted <ul style="list-style-type: none"> ◦ Immerse tube or replenish. 8. Discharge hose too long or wrong size or kinked <ul style="list-style-type: none"> ◦ Straighten the hose or replace hose with correct size and length. ◦ If a longer than the standard hose length provided is needed water pressure must be at or above 65 PSI for up to a 75' hose 9. Nozzle size too small <ul style="list-style-type: none"> ◦ Replace nozzle with correct size. 10. Use of an oiler in the airline will cause poor foam quality <ul style="list-style-type: none"> ◦ Use only clean, dry air. 11. Soil has hardened on surface, rinse foam before it dries <ul style="list-style-type: none"> ◦ Reapplication may be necessary. 	<ol style="list-style-type: none"> 12. Foamer inlet orifice clogged <ul style="list-style-type: none"> ◦ Check/clean inlet orifice for obstructions. DO NOT DRILL OUT. Install a water filter. 13. Chemical strainer or metering tip partially blocked <ul style="list-style-type: none"> ◦ Clean or replace chemical strainer and/or metering tip. 14. Chemical tube stretched out or pin hole/cut in chemical tube sucking air. <ul style="list-style-type: none"> ◦ Cut off end of tube or replace tube. 15. Vacuum leak in chemical pick-up connections <ul style="list-style-type: none"> ◦ Tighten the connection. 16. Air regulator failed allowing too much air or not enough air <ul style="list-style-type: none"> ◦ Clean or replace. 17. Air check valve failed - Discharge ball valve left closed with inlet ball valves open <ul style="list-style-type: none"> ◦ Clean or replace. 18. Chemical check valve stuck or failed <ul style="list-style-type: none"> ◦ Clean or replace. 19. Hard water scale or chemical build-up may have formed in the foamer body causing poor or no chemical pick-up <ul style="list-style-type: none"> ◦ Follow Preventive Maintenance instructions below, using hot water or descaling acid. When there is no draw at all, carefully remove fittings and soak entire body in descaling acid. 20. No backflow preventer installed and/or inlet ball valve left on when not in use <ul style="list-style-type: none"> ◦ Install appropriate backflow preventer into water line.

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.

