AFCO Installation & Operation Instructions

Model #AF 916960 ◆Portable 60 Gallon Super HV Foamer

REQUIREMENTS

Chemical Concentrate

Compressed Air	up to 12 CFM
Supply Line	3/4"
Flow	9.8 GPM @ 40 PSI
Pressure	30 - 150 PSI
remperature	up to 160°F

Hose 1-1/2" x 50'

Nozzle Super HV Open Flow Wand

WEIGHT & DIMENSIONS

Shipping Weight: 191 lbs.

Shipping Dimensions: 50" x 40" x 45"

Ships On A Pallet









Overview

The Portable 60 Gallon Super HV Foamer is a very high volume foam applicator featuring a 4-wheel, all stainless steel cart assembly with a 60 gallon chemical concentrate tank. This venturi injection system uses city water pressure (30 - 150 PSI) to draw and blend chemical concentrate from the tank into the water stream to create an accurately diluted solution. An incredible amount of 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 discharge hose and foam nozzle on to large surfaces and high ceilings at distances up to 45 feet.



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.
- Follow the chemical manufacturer's safe handling instructions.
- \bullet NEVER mix chemicals without $\underline{\text{first}}$ 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. Remove the tank lid and add a sufficient amount of chemical concentrate to the tank and replace lid.
- 2. 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 water filter.
- 3. Connect compressed air supply. If piping 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

Always make sure the wand is in hand and pointed in a safe direction before turning water and air on. DO NOT kink the hose to stop foam flow, return to the unit and close the water and air ball valves

- 1. Make final metering tip adjustments based on foam quality and cleaning results.
- 2. With wand firmly in hand and pointed in a safe direction open the water ball valve, and then the air 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.
 - o Medium wet foam will give the best cleaning results! Dry foam will NOT clean as well!
 - Once desired metering tip and foam consistency is achieved push lock the knob, you are ready to start application.
- 3. When foaming is completed return to the unit and close the water and air ball valves. <u>Do NOT kink the hose to stop foam flow</u>. Rinse the work surface before foam dries.

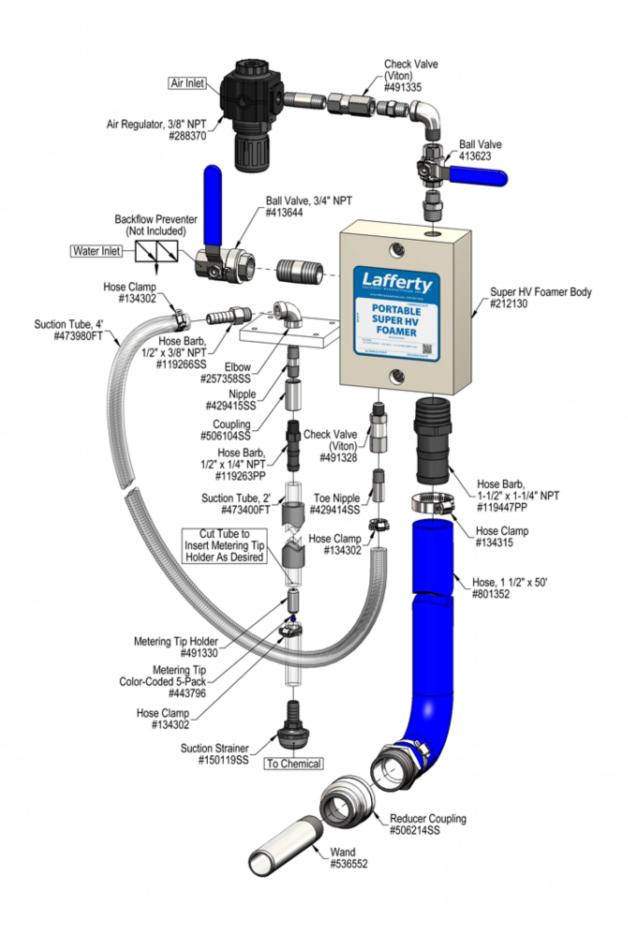
Metering Tip Se	lection (Chart
Metering Tip Color	Oz. per Min.	
Brown	.56	2892:1
Clear	.88	1840:1
Bright Purple	1.38	1173:1
White	2.15	753:1
Pink	2.93	553:1
Corn Yellow	3.84	422:1
Dark Green	4.88	332:1
Orange	5.77	281:1
Gray	6.01	269:1
Light Green	7.01	231:1
Med. Green	8.06	201:1
Clear Pink	9.43	172:1
Yellow Green	11.50	141:1
Burgundy	11.93	136:1
Pale Pink	13.87	117:1
Light Blue	15.14	107:1
Dark Purple	17.88	91:1
Navy Blue	25.36	64:1
Clear Aqua	28.60	57:1
Black	50.00	32:1
No Tip Ratio	up to	10.0:1

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

Metering Tip Selection Formula

(GPM x 128) / Dilution Ratio = Oz. per Min

Flow Rate Chart		
Pressure	Flow Rate	
PSI	GPM	
30	9.80	
40	11.32	
50	12.65	
60	13.86	
70	14.97	
80	16.00	
90	16.97	
100	17.89	
110	18.77	
120	19.60	
130	20.40	
140	21.17	
150	21.91	



Troubleshooting Guide

AF 916960 ● Portable 60 Gallon Super HV Foamer

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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). E) Using too much chemical.	1, 4, 6, 11 5		
F) Water/chemical backing up into air line.	17		
G) Water backing up into chemical container.	18		
H) Air or chemical solution backing up into water line.	20		
Possible Cause / Solution			
Startup	Maintenance		
1. Air pressure too high	12. Foamer inlet orifice clogged		
Adjust the air regulator slowly counterclockwise until output	Check/clean inlet orifice for obstructions. DO NOT DRILL OUT.		
stabilizes.	Install a water filter.		
2. Water pressure or water volume too low/inlet piping too small	13. Chemical strainer or metering tip partially blocked		
causing poor chemical pick up	Clean or replace chemical strainer and/or metering tip.		
Increase water pressure or water volume (SEE)	3.1		
REQUIREMENTS).	14. Chemical tube stretched out or pin hole/cut in chemical tube sucking		
O links hall and an order annual state and an	air.		
3. Inlet ball valve not completely open,• Completely open the inlet ball valve.	 Cut off end of tube or replace tube. 		
o completely open the milet ball valve.	15. Vacuum leak in chemical pick-up connections		
4. Not enough chemical - metering tip too small	∘ Tighten the connection.		
 Install larger metering tip. 			
F. No westering tip installed or metaring tip too love.	16. Air regulator failed allowing too much air or not enough air		
 No metering tip installed or metering tip too large Install smaller metering tip. 	∘ Clean or replace.		
o motali omatici metering up.	17. Air check valve failed		
6. Improper chemical	Clean or replace.		
 Ensure product is recommended for foaming and the application. 			
	18. Chemical check valve stuck or failed		
 Chemical tube not immersed in chemical or chemical depleted Immerse tube or replenish. 	∘ Clean or replace.		
	19. Hard water scale or chemical build-up may have formed in the		
8. Discharge hose too long or wrong size or kinked	foamer body causing poor or no chemical pick-up		
 Straighten the hose or replace hose with correct size and length. 	Follow Preventive Maintenance instructions below, using hot water or decepting acid. When there is no draw at all, carefully		
9. Wand wrong size (SEE REQUIREMENTS)	water or descaling acid. When there is no draw at all, carefully remove fittings and soak entire body in descaling acid.		
o. Trana mong old (old medomento)	Tomovo mango ana ocak chare body in accounting acid.		
10. Use of an oiler in the airline will cause poor foam quality	20. No backflow preventer installed and/or inlet ball valve left on when		
∘ Use only clean, dry air.	not in use		

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.

11. Soil has hardened on surface, rinse foam before it driesReapplication may be necessary.

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o Install appropriate backflow preventer into water line.