AFCO Installation & Operation Instructions

Model #AF 916205 ◆Super HV Foamer

REQUIREMENTS

Chemical Concentrate

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Nozzle	Super HV Open Flow Wand
Hose	1-1/2" x 50'
Compressed Air	up to 12 CFM
Supply Line	3/4"
Flow	9.8 GPM @ 40 PSI
Pressure	35 - 150 PSI
Temperature	up to 160°F

OPTIONS

224150
224210
224215
224216

WEIGHT & DIMENSIONS

Shipping Weight: 55 lbs.

Shipping Dimensions: 35" x 29" x 11"







READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!



Overview

The Super HV Foamer is a very high volume foam applicator for projecting foaming chemicals on to large surfaces and high ceilings. This venturi injection system uses city water pressure (35 - 150 PSI) to draw and blend chemical concentrate 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 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.)

- 1. Mount the unit to a suitable surface above the chemical supply to prevent siphoning.
- 2. Connect the discharge hose.
- 3. When connecting to a potable water supply follow all local codes for backflow prevention.
- 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.

<u>Always</u> 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.
 - 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</u> stop foam flow. Rinse the work surface before foam dries.

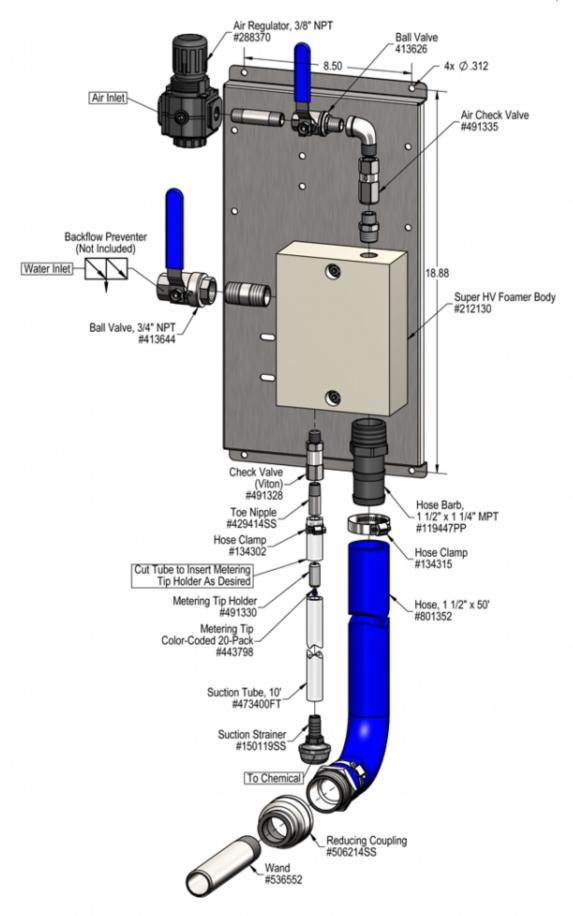
Metering Tip Selection Chart			
Metering Tip Color	Oz. per Min.	Example:	
Brown	.56	2808:1	
Clear	.88	1787:1	
Bright Purple	1.38	1139:1	
White	2.15	731:1	
Pink	2.93	537:1	
Corn Yellow	3.84	409:1	
Dark Green	4.88	322:1	
Orange	5.77	273:1	
Gray	6.01	262:1	
Light Green	7.01	224:1	
Med. Green	8.06	195:1	
Clear Pink	9.43	167:1	
Yellow Green	11.50	137:1	
Burgundy	11.93	132:1	
Pale Pink	13.87	113:1	
Light Blue	15.14	104:1	
Dark Purple	17.88	88:1	
Navy Blue	25.36	62:1	
Clear Aqua	28.60	55:1	
Black	50.00	31:1	
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	
40	9.80	
50	11.11	
60	12.28	
70	13.36	
80	14.35	
90	15.27	
100	16.15	
110	16.97	
120	17.76	
130	18.52	
140	19.25	
150	19.95	



Troubleshooting Guide

AF 916205 • Super HV Foamer

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Duahlam	Possible Cause / Solution			
Problem	Startup Maintenance			
B) Foamer will not draw chemical. C) Foam too wet. D) Foam does not clean properly (too dry).	1, 2, 3, 4, 6, 7, 8, 9, 10 1, 3, 4, 7, 8, 9, 10 12, 13, 14, 15, 16, 18, 19 13, 14, 15, 16, 18, 19 13, 14, 15, 16, 18, 19 14, 4, 6, 11			
E) Using too much chemical. F) Water/chemical backing up into air line. G) Water backing up into chemical container. H) Air or chemical solution backing up into water line.	17 18 20			
Possible Cau	ise / Solution			
Startup	Maintenance			
Air pressure too high Adjust the air regulator slowly counterclockwise until output stabilizes.	 12. Foamer inlet orifice clogged Check/clean inlet orifice for obstructions. DO NOT DRILL OUT. Install a water filter. 			
 Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume (SEE REQUIREMENTS). 	 13. Chemical strainer or metering tip partially blocked Clean or replace chemical strainer and/or metering tip. 14. Chemical tube stretched out or pin hole/cut in chemical tube sucking air. 			
3. Inlet ball valve not completely open, Completely open the inlet ball valve.	Cut off end of tube or replace tube.			
Not enough chemical - metering tip too small Install larger metering tip.	15. Vacuum leak in chemical pick-up connections • Tighten the connection. 16. Air regulator failed allowing too much six or not enough six.			
5. No metering tip installed or metering tip too largeo Install smaller metering tip.	 16. Air regulator failed allowing too much air or not enough air ◦ Clean or replace. 			
Improper chemical • Ensure product is recommended for foaming and the application.	17. Air check valve failed ∘ Clean or replace.			
7. Chemical tube not immersed in chemical or chemical depletedo Immerse tube or replenish.	18. Chemical check valve stuck or failed◦ Clean or replace.			
Discharge hose too long or wrong size or kinked Straighten the hose or replace hose with correct size and length.	 19. Hard water scale or chemical build-up may have formed in the foamer body causing poor or no chemical pick-up Follow Preventive Maintenance instructions below, using hot water or descaling acid. When there is no draw at all, carefully 			
9. Wand wrong size (SEE REQUIREMENTS)	remove fittings and soak entire body in descaling 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			

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.

o Use only clean, dry air.

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

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not in use



o Install appropriate backflow preventer into water line.