AFCO Installation & Operation Instructions

Model #AF 912105 ●BP Foamer

REQUIREMENTS

Chemical Concentrate

Temperature	up to 160°F
Pressure	125 - 350 PSI
Flow	3.0 GPM @ 250 PSI
Supply Line	1/2"
Compressed Air	up to 4 CFM
	0.44
Hose	3/4" x 50'

OPTIONS

OPTIONS	
Large Stainless Steel Hose Rack	# 224150
Stainless Steel Jug Racks 1 Gallon Round/Square	# 224200
1 Gallon Round/Square Locking	# 224200-L
2 ½ Gallon (8 ½" x 10 ½")	# 224210
5 Gallon (12" x 12")	# 224215
5 Gallon Round Locking	# 224216
Lid & Suction Hose for 1 & 5 Gallon F Pail Lid Suction Hose Assembly	Pails # 709101
Alternate Check Valves - EPDM Stand Check Valve, Chemical, PP/Viton, 1/4"	dard # 491315
Check Valve, Air, SS/Viton, 1/4"	# 491306

WEIGHT & DIMENSIONS

Shipping Weight: 22 lbs.

Shipping Dimensions: 28" x 19" x 8"





READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!



Overview

The BP Foamer is a medium volume foam applicator for projecting foaming chemicals on to any surface up close or at a distance. This venturi injection system uses boosted water pressure (125 - 350 PSI) to draw and blend chemical concentrate 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 foam hose and fan nozzle at distances up to 13 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.
- Do not put a discharge ball valve on this unit or kink the hose to stop the flow of foam.

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.

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. Final chemical dilution and air adjustments will now have to be made.
- 2. With wand in hand open the water ball valve, and the air ball valve.
 - Wait a few seconds and observe foam consistency.
 - To adjust the foam consistency turn the needle valve knob slightly counterclockwise for dryer foam and clockwise for wetter foam.
 - Medium wet foam will give the best cleaning results! Very 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 you are ready to start application.
- 3. When foaming is completed return to the unit and close the water and air ball valves. Do NOT kink the hose to stop foam flow. Rinse the work surface before foam dries.

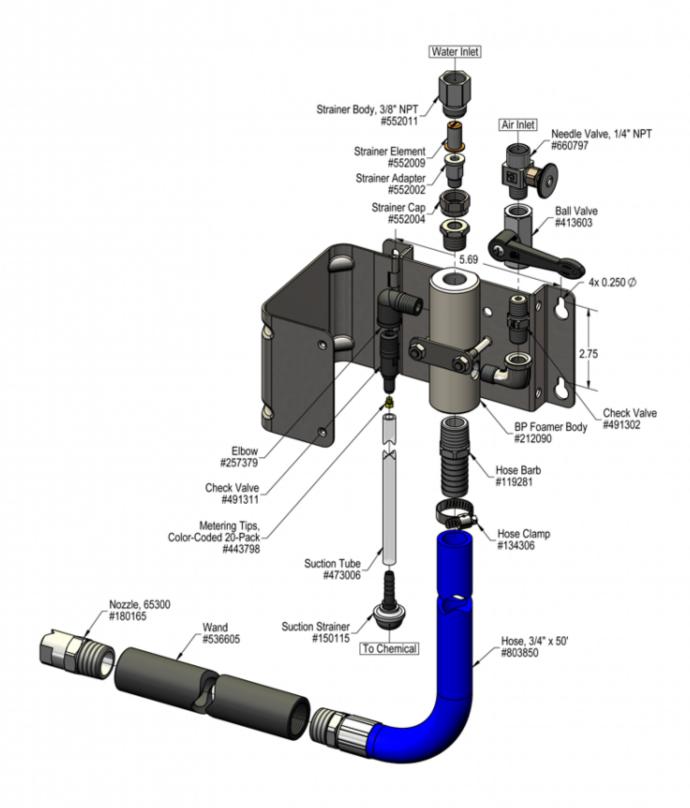
Metering Tip So	election C	hart
Metering Tip Color	Oz. per Min.	Example: Dilution Ratio @ 300 PSI
Brown	.56	679:1
Clear	.88	432:1
Bright Purple	1.38	275:1
White	2.15	177:1
Pink	2.93	130:1
Corn Yellow	3.84	99:1
Dark Green	4.88	78:1
Orange	5.77	66:1
Gray	6.01	63:1
Light Green	7.01	54:1
Med. Green	8.06	47:1
Clear Pink	9.43	40:1
Yellow Green	11.50	33:1
Burgundy	11.93	32:1
Pale Pink	13.87	27:1
Light Blue	15.14	25:1
Dark Purple	17.88	21:1
Navy Blue	25.36	15:1
Clear Aqua	28.60	13:1
Black	50.00	8:1
No Tip Ratio	up to	0 6.0:1

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

- 02. per Pilli		
Flow Rate Chart		
Pressure	Flow Rate	
PSI	GPM	
150	2.30	
200	2.66	
250	2.97	
300	3.25	
350	3.51	



Troubleshooting Guide

AF 912105 ● BP Foamer

	Possible Cause / Solution			
Problem				
	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. C) Foam too wet.	1, 3, 4, 7, 8, 9, 10 12, 13, 14, 15, 16, 18, 19 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.	12			
Possible Cause / Solution				
Startup	Maintenance			
1. Air volume too high	12. Chemical check valve stuck or failed			
 Adjust the needle valve slowly clockwise. 	∘ Clean or replace.			
2. Use of an oiler in the airline will cause poor foam quality	13. Chemical strainer or metering tip partially blocked			
∘ Use only clean, dry air.	 Clean or replace chemical strainer and/or metering tip. 			
3. Inlet ball valve not completely open	14. Chemical tube stretched out or pin hole/cut in tube			
∘ Completely open the ball valve.	∘ Cut off end of tube or replace tube.			
4. Not enough chemical - metering tip too small	15. Vacuum leak in chemical pick-up connections			
Install larger metering tip.Chemical Ball valves closed (2-Way)	∘ Tighten the connection.			
- Shermour Built various stocks (2 Tray)	16. Needle valve clogged not allowing enough air			
5. No metering tip installed or metering tip too large	Clean or replace.			
 Install smaller metering tip. 				
6 Improper chamical	17. Air check valve failed			
 6. Improper chemical • Ensure product is recommended for the application. 	Replace.			
Endate product to recommended for the approach.	18. Water strainer element clogged or missing/foamer inlet orifice			
7. Chemical tube not immersed or chemical depleted	clogged			
 Immerse tube or replenish. 	 Clean or replace strainer element; check/clean inlet orifice for obstructions. DO NOT DRILL OUT. 			
8. Discharge hose too long or wrong size or kinked				
 Straighten the hose or replace with correct hose. 	 Chemical build-up may have formed in the foamer body causing poor or no chemical pick-up 			
9. Nozzle size too small	 Follow Preventive Maintenance instructions below, using hot 			
 Replace with correct size nozzle. 	water and/or descaling acid. When there is no draw at all,			
40 W	carefully remove fittings and soak entire foamer body in descaling			
 Water pressure or water volume too low/inlet piping too small causing poor chemical pick up 	acid.			
Increase water pressure or water volume.				
11. Soil has hardened on surface				
Always rinse foam before it dries				
 Reapplication may be necessary. 				

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.



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