AFCO Installation & Operation Instructions

Model #AF 918805 ●Portable 5 Gallon HPSS Foamer

REQUIREMENTS

Chemical Concentrate

Temperature	up to 180°F	
Pressure	400 - 1000 PSI	
Flow	2.0 GPM @ 700 PSI	
Supply Line	3/8"	
Compressed Air	up to 5 CFM	
Hose	1/2" x 50'	
Nozzle	50250	

OPTIONS

5 Gallon Pail Pail, 5 Gallon Round W/ Suction Stem	# 709105
Square Jug Rack Conversion Specify Round or Square Jug Racks at time of or	
Optional Zero Degree Foam Nozzle (For Increased Range) Nozzle, NPB, 1/2" - 00250	r # 180153
Alternate Check Valves - EPDM Standar Check Valve, Chemical, PP/Viton, 1/4"	⁺d # 491315
Check Valve Air SS/Viton 1/4"	# 491306





READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!



Overview

The Portable 5 Gallon HPSS Foamer is a 2 GPM @ 700 PSI foam applicator for projecting foaming chemicals on to any surface up close or at a distance. Featuring an all stainless steel cart assembly, this stainless steel venturi injection system uses high water pressure (400 - 1000 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 discharge 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. Place a container of chemical concentrate in the jug rack(s).
- 2. Connect water supply.
- 3. 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.

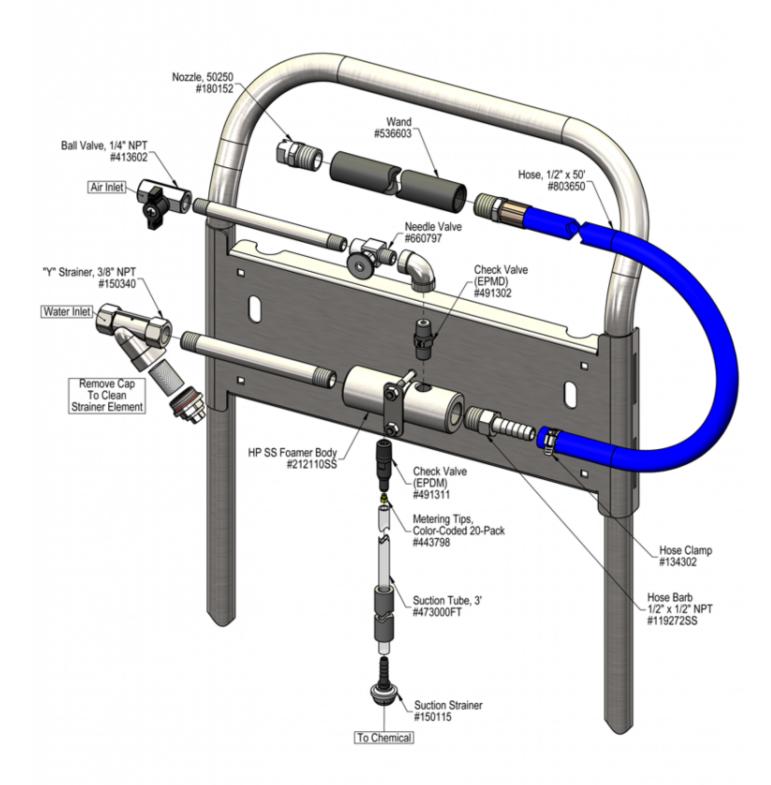
Metering Tip So	election C	hart
Metering Tip Color	Oz. per Min.	Example: Dilution Ratio @ 700 PSI
Brown	.56	454:1
Clear	.88	289:1
Bright Purple	1.38	184:1
White	2.15	118:1
Pink	2.93	87:1
Corn Yellow	3.84	66:1
Dark Green	4.88	52:1
Orange	5.77	44:1
Gray	6.01	42:1
Light Green	7.01	36:1
Med. Green	8.06	32:1
Clear Pink	9.43	27:1
Yellow Green	11.50	22:1
Burgundy	11.93	21:1
Pale Pink	13.87	18:1
Light Blue	15.14	17:1
Dark Purple	17.88	14:1
Navy Blue	25.36	10:1
Clear Aqua	28.60	9:1
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

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

02. pc. :		
Flow Rate Chart		
Pressure	Flow Rate	
PSI	GPM	
400	1.50	
500	1.68	
600	1.84	
700	1.98	
800	2.12	
900	2.25	
1000	2.37	



Troubleshooting Guide

AF 918805 ● Portable 5 Gallon HPSS Foamer

	Possible Cause / Solution	
Problem		
	Startup Maintenance	
· · · · · · · · · · · · · · · · · · ·	1, 2, 3, 4, 6, 7, 8, 9, 10 12, 13, 14, 15, 16, 18, 19	
·	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	
	1, 4, 6, 11 5	
F) Water/chemical backing up into air line.	17	
G) Water backing up into chemical container.	12	
Possible Cau	ise / Solution	
Startup	Maintenance	
d. Alexandrana dan birah	40. Observing Laboratory to the standard of the d	
 Air volume too high Adjust the needle valve slowly clockwise. 	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. 	
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.	∘ Tighten the connection.	
∘ Chemical Ball valves closed (2-Way)	, and the second	
	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. 	47 At 1 1 1 1 1 1 1 1	
6 Imprener chemical	17. Air check valve failed	
 6. Improper chemical Ensure product is recommended for the application. 	∘ Replace.	
• Ensure product is recommended for the application.	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. 	19. Chemical build-up may have formed in the foamer body causing poor	
	or no chemical pick-up	
9. Nozzle size too small • Replace with correct size nozzle.	 Follow Preventive Maintenance instructions below, using hot water and/or descaling acid. When there is no draw at all, 	
• Replace with correct size nozzle.	carefully remove fittings and soak entire foamer body in descaling	
10. Water pressure or water volume too low/inlet piping too small	acid.	
causing poor chemical pick up		
 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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