

# AFCO Installation & Operation Instructions

## Model #AF 920135 • Pump Fed Sanitize / Boosted Rinse / Foam Hose Drop Station

### REQUIREMENTS

#### Ready-to-Use Chemical Solution (Minimum 35 PSI at the Unit)

##### Sanitize

Pressure	35 - 125 PSI
Flow	3 GPM @ 40 PSI
Supply Line	1/2"

##### Foam

Pressure	35 - 125 PSI
Flow	1.7 GPM @ 40 PSI
Supply Line	3/4"
Compressed Air	up to 3 CFM

##### Rinse

Temperature	up to 160°F
Pressure	150 - 350 PSI
Flow	up to 16 GPM
Supply Line	3/4"

##### Hose

Sanitize	1/2" x 50'
Rinse	1/2" x 50'
Foam	3/4" x 50'

##### Nozzle

Sanitize	2530
Rinse	Trigger Gun, 1/2"
Foam	50250



### OPTIONS

**Large Stainless Steel Hose Rack** # 224150

#### Recommended Foam Solution Check Valves & Strainer

Check Valve, PP, 1/2" (EPDM)	# 491409
Check Valve, PP, 1/2" (Viton)	# 491411
SS "Y" Strainer	# 150350

#### Alternate Air Check Valve - EPDM Standard

Check Valve, Air, SS, 1/4" MM (Viton / Hast)	# 491306
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<http://www.afcocare.com>

**READ ALL  
INSTRUCTIONS BEFORE  
USING EQUIPMENT!**

## Overview

The Pump Fed Sanitize / Boosted Rinse / Foam Hose Drop Station is a combination applicator for projecting one ready-to-use chemical as foam, another as a sanitizing spray and for rinsing using boosted water pressure (150 - 350 PSI). This unit receives 2 separate ready-to-use chemical solutions from separate central chemical feed systems. Rich, clinging foam is created by injecting compressed air into the foaming solution to greatly increase volume and coverage ability. Foam is then projected through the foam hose and fan nozzle on to any surface up close or at distances up to 12 feet. Sanitizer solution, or any other chemical, is projected through a separate hose as a fan pattern spray. Rinse with boosted pressure water through the adjustable spray pattern trigger gun.



# 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.
- For pressures over 100 PSI, remove the discharge valve or lower pressure
- Follow the chemical manufacturer's safe handling instructions.
- Turn off solution supply and air when unit is not in use for extended periods.

## TO INSTALL (REFER TO DIAGRAM, NEXT PAGE.)

**It is recommended to install a check valve in the foamer solution inlet to prevent air from going back into solution line. (see Options)**

1. Mount the unit to a suitable surface.
2. Connect the discharge hoses as shown in the diagram and close the ball valves.
3. Connect pre-mixed solution supplies and **install a solution check valve** in the foamer inlet to prevent compressed air from going back up the solution line.
4. To prevent blocking the small jets, flush any new plumbing of debris before connecting. (And/or install a strainer)
5. Connect compressed air supply. If piping is older and has known contaminants, install a filter.

## TO OPERATE

**Always make sure the discharge ball valve is closed or pointed in a safe direction before turning inlet valve on. Discharge valve can be shut off at any time during operation but should not be left off for long periods of time with the inlet valve on.**

## TO FOAM

1. With wand in hand open the inlet ball valve, and 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 solution pressure fluctuations from affecting performance. Air pressure must be kept lower than solution 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 chemical ratios 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. you are ready to start application.
2. When foaming is completed, close the discharge ball valve, return to the unit and close the solution and air ball valves. Briefly re-open the discharge ball valve to relieve pressure in the hose. Rinse before the foam dries.

## TO SANITIZE

1. With discharge wand in hand open the inlet ball valve. Then open the discharge ball valve to begin application.
2. When sanitizing is completed, close the discharge ball valve then close the inlet ball valve.
3. Briefly re-open the discharge ball valve to relieve pressure in hose. If applicable rinse the work surface before solution dries.

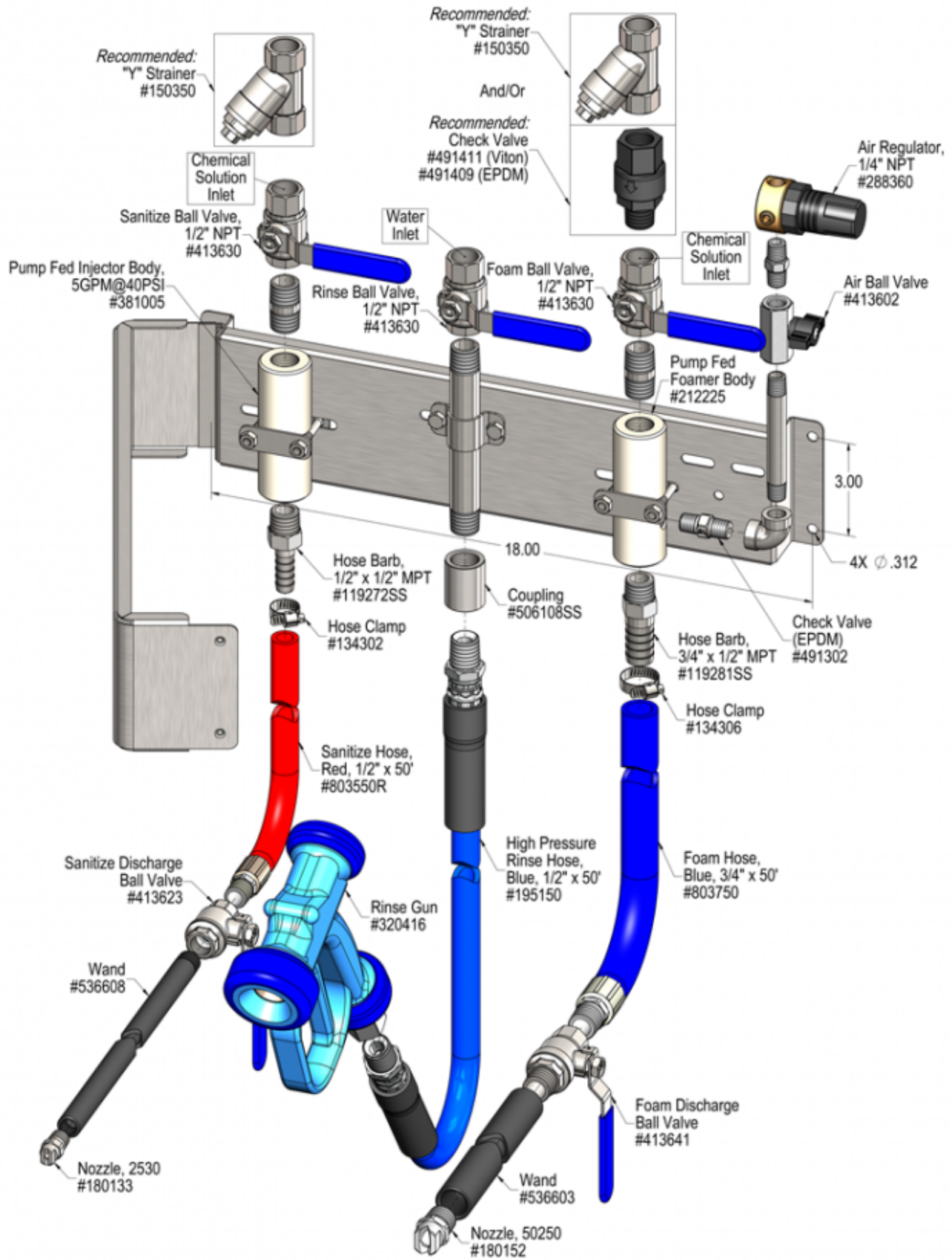
## TO RINSE

1. Hold the trigger gun firmly and direct the discharge in a safe direction. Pull the trigger and begin.
2. When rinsing is complete, release the trigger.

Flow Rate Chart		
Pressure	Flow GPM	
PSI	Sanitize	Foam
<b>40</b>	<b>3.00</b>	<b>1.70</b>
50	3.34	1.90
60	3.67	2.08
70	3.96	2.25
80	4.24	2.40
90	4.49	2.55
100	4.74	2.69
110	4.97	2.82
120	5.20	2.94

Flow Rate Chart	
Pressure	Flow Rate
PSI	Rinse - GPM
<b>150</b>	<b>10.40</b>
250	13.43
350	15.89



# Troubleshooting Guide

## AF 920135 • Pump Fed Sanitize / Boosted Rinse / Foam Hose Drop Station

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Foam surges and/or hose "bucks"	1, 2, 3, 4, 5, 7, 8	10, 11, 14
B) Foam too wet	2, 3, 4, 7, 8	12, 14
C) Foam does not clean properly	1, 4, 9	
D) Air backing up into foam solution line		13
E) Chemical solution backing up into airline		14

Possible Cause / Solution	
Startup	Maintenance
<p><b>1. Air pressure too high</b></p> <ul style="list-style-type: none"> <li>Adjust the air regulator slowly counterclockwise until output stabilizes or foam is "wetter"</li> </ul> <p><b>2. Solution pressure or volume too low/inlet piping too small causing poor chemical pick up</b></p> <ul style="list-style-type: none"> <li>Increase pressure</li> <li>Reduce number of stations being used at one time</li> </ul> <p><b>3. Inlet or discharge ball valve not completely open</b></p> <ul style="list-style-type: none"> <li>Completely open the inlet and discharge ball valves</li> </ul> <p><b>4. Not enough chemical or improper chemical</b></p> <ul style="list-style-type: none"> <li>Increase chemical concentration</li> <li>Ensure product is recommended for foaming and the application</li> </ul> <p><b>5. Foam nozzle has been changed- too small</b></p> <ul style="list-style-type: none"> <li>Replace nozzle with correct size</li> </ul> <p><b>6. Sanitizer nozzle has been changed- too large</b></p> <ul style="list-style-type: none"> <li>Replace nozzle with correct size</li> </ul> <p><b>7. Discharge hose too long or wrong size or kinked</b></p> <ul style="list-style-type: none"> <li>Straighten the hose or replace hose with correct size and length</li> </ul> <p><b>8. Air pressure too low / use of an oiler in the airline will cause poor foam quality</b></p> <ul style="list-style-type: none"> <li>Adjust the air regulator slowly clockwise</li> <li>Use only clean, dry air</li> </ul> <p><b>9. Soil has hardened on surface, rinse foam before it dries</b></p> <ul style="list-style-type: none"> <li>Reapplication may be necessary</li> </ul>	<p><b>10. Inlet orifice clogged</b></p> <ul style="list-style-type: none"> <li>Clean / clean inlet orifice / DO NOT DRILL OUT</li> <li>Install a strainer</li> </ul> <p><b>11. Chemical build-up may have formed in the body causing reduced flow.</b></p> <ul style="list-style-type: none"> <li>Carefully remove fittings and soak entire body in descaling acid</li> </ul> <p><b>12. Air regulator failed</b></p> <ul style="list-style-type: none"> <li>Clean or replace</li> </ul> <p><b>13. Air check valve failed</b></p> <ul style="list-style-type: none"> <li>Clean or replace</li> </ul> <p><b>14. No solution check valve installed or failed</b></p> <ul style="list-style-type: none"> <li>Install a check valve in the inlet</li> <li>Clean or replace</li> </ul>

**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.

