AFCO Installation & Operation Instructions

Model #AF 973850 •1035 Sanitizer

REQUIREMENTS

Chemical Concentrate

Water	
Temperature	up to 160°F
Pressure	35 - 125 PSI
Flow	9.40 GPM @ 40 PSI
Supply Line	3/4"
Hose	3/4" x 50'
Nozzle	50250

OPTIONS

Large Stainless Steel Hose Rack	# 224150
Stainless Steel Jug Racks	
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 P	ails
Pail Lid Suction Hose Accombly	# 700101

Pail Lid Suction Hose Assembly# 709101Alternate Sanitizer Check Valve - Viton Standard

Check Valve, Chemical, PP/EPDM, 1/4" # 491311

WEIGHT & DIMENSIONS

Shipping Weight: 24 lbs.

Shipping Dimensions: 28" x 19" x 8"



(j) Overview

The 1035 Sanitizer is a high volume venturi injection system that uses standard city water pressure (35 - 125 PSI) to draw and blend chemical concentrate into the water stream. Precision metering tips are used to create the lean ratios required for no-rinse sanitizing in food plants. The solution is projected through the discharge hose and fan nozzle as a 9.4 GPM flooding spray, for very fast and efficient coverage.

AFCO • 5000 Letterkenny Rd • Chambersburg, PA. 17201 • 1-800-345-1329

AF 973850 • 1035 Sanitizer

1 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.
- For pressures over 100 PSI, remove the discharge valve or lower pressure.
- Never leave inlet ball valves on when unit is not in use.
- Follow the chemical manufacturer's safe handling instructions.
- NEVER mix chemicals without <u>first</u> 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. Mount the unit to a suitable surface above the chemical supply to prevent siphoning.
- 2. Connect the discharge hose(s) as shown in the diagram.
- 3. Flush any new plumbing of debris before connecting water.
- 4. Connect water supply. If water piping is older, or has known contaminants, install a water 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

<u>Always</u> make sure the discharge ball valve is closed or pointed in a safe direction before turning water on. Ball valve can be shut off at any time during operation but should not be left unattended for long periods of time.

- 1. Open the inlet ball valve then open the discharge ball valve to begin application.
- 2. Make final metering tip adjustments based on application results.
- When application is completed, close the discharge ball valve, return to the unit and close the inlet ball valve. Reopen the discharge ball valve to relieve pressure in hose then close the discharge ball valve. If applicable rinse the work surface before solution dries.

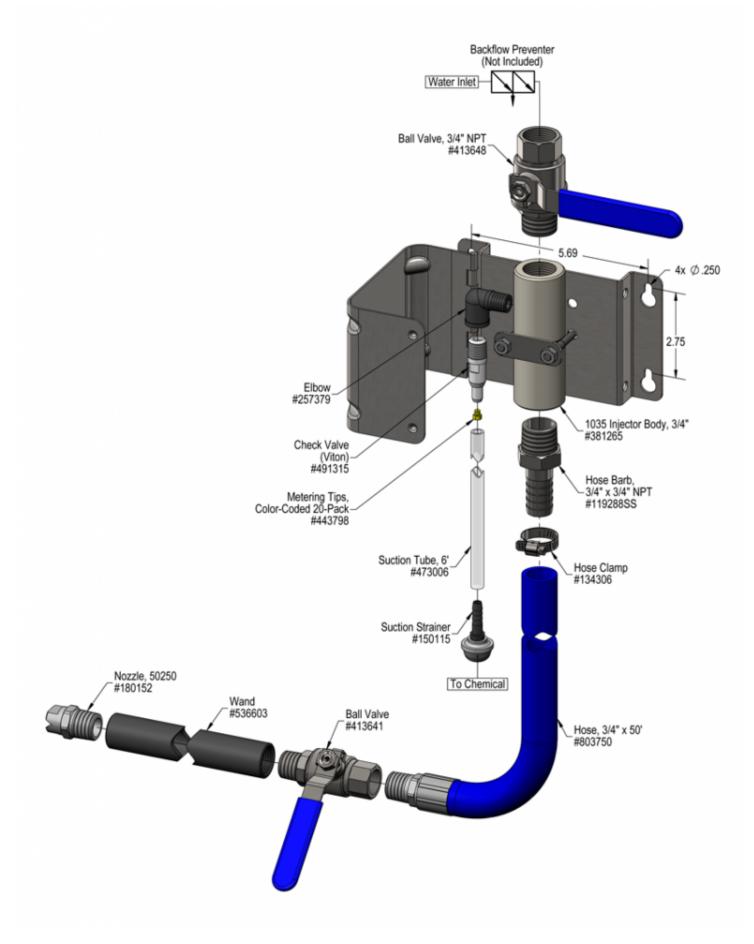
Metering Tip Selection Chart		
Metering Tip Color	Oz. per Min.	Example: Dilution Ratio @ 40 PSI
Brown	.56	2149:1
Clear	.88	1367:1
Bright Purple	1.38	872:1
White	2.15	560:1
Pink	2.93	411:1
Corn Yellow	3.84	313:1
Dark Green	4.88	247:1
Orange	5.77	209:1
Gray	6.01	200:1
Light Green	7.01	172:1
Med. Green	8.06	149:1
Clear Pink	9.43	128:1
Yellow Green	11.50	105:1
Burgundy	11.93	101:1
Pale Pink	13.87	87:1
Light Blue	15.14	79:1
Dark Purple	17.88	67:1
Navy Blue	25.36	47:1
Clear Aqua	28.60	42:1
Black	50.00	24:1
No Tip Ratio	up to	0 15.0:1

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
0	A 41

= Oz. per Min			
Flow Rate Chart			
Pressure	Flow Rate		
PSI	GPM		
40	9.40		
50	10.51		
60	11.51		
70	12.44		
80	13.29		
90	14.10		
100	14.86		
110	15.59		
120	16.28		



Troubleshooting Guide

AF 973850 • 1035 Sanitizer

	Possible Cause / Solution
roblem	Startup Maintenance
Unit will not draw chemical Dilution too weak Dilution too strong Water backing up into chemical container	1, 4, 5, 6, 7 8, 9, 10, 11, 12, 13, 14 2, 4, 5 8, 9, 10, 11, 12, 13, 14 3 14 8
Possible Ca	ause / Solution
Startup	Maintenance
 Inlet or discharge ball valves not completely open Completely open both ball valves. 	 8. Chemical check valve stuck or failed • Clean or replace.
 Not enough chemical - metering tip too small Install larger metering tip. 	 9. Chemical strainer or metering tip partially blocked Clean or replace chemical strainer and/or metering tip.
 No metering tip installed or metering tip too large Install smaller metering tip. 	 10. Chemical tube stretched out or pin hole/cut in chemical tube • Cut off end of tube or replace tube.
 Chemical tube not immersed in chemical or chemical depleted Immerse tube or replenish. 	11. Vacuum leak in chemical pick-up connections• Tighten the connection.
 5. Discharge hose too long for available water pressure, kinked or wrong size Straighten the hose or replace hose. 	 12. Water strainer clogged or missing/injector inlet orifice clogged Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT.
 6. Nozzle size too small (SEE REQUIREMENTS) 7. Water pressure or water volume too low/inlet piping too small causing poor chemical pick up Increase water pressure or water volume 	 13. Hard water scale or chemical build-up may have formed in the injector body causing poor or no chemical pick-up Follow Preventive Maintenance instructions below, using hot water and/or de-scaling acid. When there is no draw at all, carefully remove fittings and soak entire injector body in de-scaling acid.
	14. More than one chemical ball valve is open

2-Way and 3-Way models only

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.

