AFCO Installation & Operation Instructions

Model #AF 912050 •W-50SS Spray-All

REQUIREMENTS

Chemical Concentrate

Hose	1/2" x 50'
Supply Line	3/4"
Flow	5.6 GPM @ 250 PSI
Pressure	125 - 350 PSI
Temperature	up to 180°F

Trigger Gun, 1/2"

Nozzle

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 Pails Pail Lid Suction Hose Assembly # 709101		
Alternate Check Valve - EPDM Standar Check Valve, Chemical, SS, Viton, 1/4"	-d # 491324-V	





READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!



Overview

The W-50SS Spray-All is a water-driven, high volume spray applicator for applying chemical solutions to a variety of surfaces. This stainless steel venturi injection system uses boosted water pressure (125 - 350 PSI) to draw and blend chemical concentrate into the water stream using precision metering tips. The accurately diluted solution is then projected through the discharge hose and adjustable spray pattern trigger gun as a powerful, "flooding spray" for applying sanitizers or other chemicals.



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.

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 as shown in the diagram.
- 3. To prevent blocking the small water jets in the injector 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 <u>water thin</u> chemicals with a viscosity of 1CPS.
- <u>Thicker</u> 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

- 1. Make final metering tip adjustments based on application results.
- 2. With trigger gun in hand open the inlet ball valve.
- 3. Pull the trigger and begin application.
- 4. When application is completed, release the trigger then close the inlet ball valve.
- 5. Briefly squeeze the trigger to relieve pressure in hose.

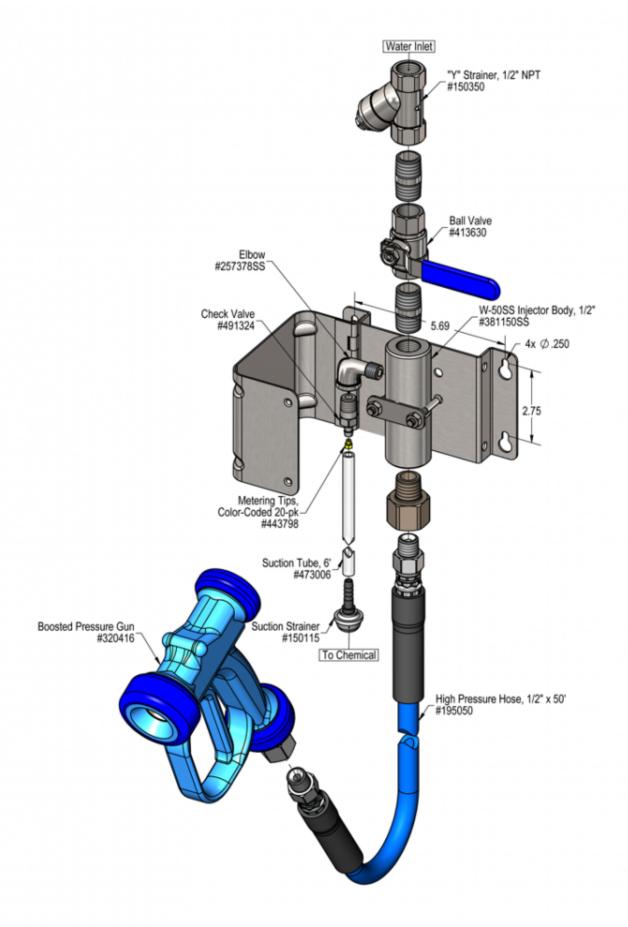
Metering Tip S Metering Tip Color	Oz. per Min.	Example:
Brown	.56	1284:1
Clear	.88	817:1
Bright Purple	1.38	521:1
White	2.15	334:1
Pink	2.93	245:1
Corn Yellow	3.84	187:1
Dark Green	4.88	147:1
Orange	5.77	125:1
Gray	6.01	120:1
Light Green	7.01	103:1
Med. Green	8.06	89:1
Clear Pink	9.43	76:1
Yellow Green	11.50	63:1
Burgundy	11.93	60:1
Pale Pink	13.87	52:1
Light Blue	15.14	47:1
Dark Purple	17.88	40:1
Navy Blue	25.36	28:1
Clear Aqua	28.60	25:1
Black	50.00	14:1
No Tip Ratio	up t	o 7.0:1

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	
150	4.35	
200	5.02	
250	5.62	
300	6.15	
350	6.64	



Troubleshooting Guide

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Problem

A) B) C) D) **Possible Cause / Solution**

Startup Maintenance				
8, 9, 10, 11, 12, 13, 14 2, 4, 5 8, 9, 10, 11, 12, 13, 14 14 8				
Possible Cause / Solution				
Maintenance				
8. Chemical check valve stuck or failed ◦ Clean or replace.				
 9. Chemical strainer or metering tip partially blocked Clean or replace chemical strainer and/or metering tip. 				
10. Chemical tube stretched out or pin hole/cut in chemical tubeCut off end of tube or replace tube.				
11. Vacuum leak in chemical pick-up connections ∘ Tighten the connection.				
 12. Water strainer clogged or missing/injector inlet orifice clogged Clean or replace strainer; check/clean inlet orifice for obstructions. DO NOT DRILL OUT. 				
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 descaling 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.



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