

AFCO Installation & Operation Instructions

Model #AF 969521-B • Model 20 SS Compact Sprayer



Optional Lid Colors (Blue Standard)



<http://www.afcocare.com>

**READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**

REQUIREMENTS

Water Temperature	up to 180°F
Pressure Washer	2.2 - 6 GPM
Discharge Hose	3/8" ID minimum

OPTIONS

Stainless Steel Hose Racks

Large	# 224150
Small	# 224145

Pressure Washer QD's, Hose & Trigger Gun

HP 3/8" x 50' Hose & Trigger Gun Kit	# 807069
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Additional 32oz Bottles

Bottle, 32oz	# 709082
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WEIGHT & DIMENSIONS

Shipping Weight: 2 lbs.

Shipping Dimensions: 15" x 8" x 5"

Overview

The Model 20 Stainless Steel Compact Sprayer is a high pressure chemical spray applicator for quickly diluting and applying virtually any liquid chemical. This venturi injection system uses a 2.2 – 6 GPM pressure washer to draw chemical concentrate from the attached bottle and blend it into the water stream to create an accurately diluted solution. The solution is then projected as a chemical spray on to surfaces up close or at a distance.



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. Remove your rinse nozzle and quick connect the sprayer to your trigger gun. (1/4" quick connect).

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

1. Unscrew the bottle and install the selected colored metering tip, add chemical concentrate to the bottle and re-attach. Do not over tighten.
2. Quick connect to the trigger gun.
3. Direct the discharge in a safe direction. Pull the trigger to begin application.
4. Make final metering tip adjustments based on application results. Try the next larger sized metering tip until the results are acceptable.
5. When application is complete, release the trigger.
6. To rinse, quick disconnect the unit from the gun, rinse before the chemical dries.

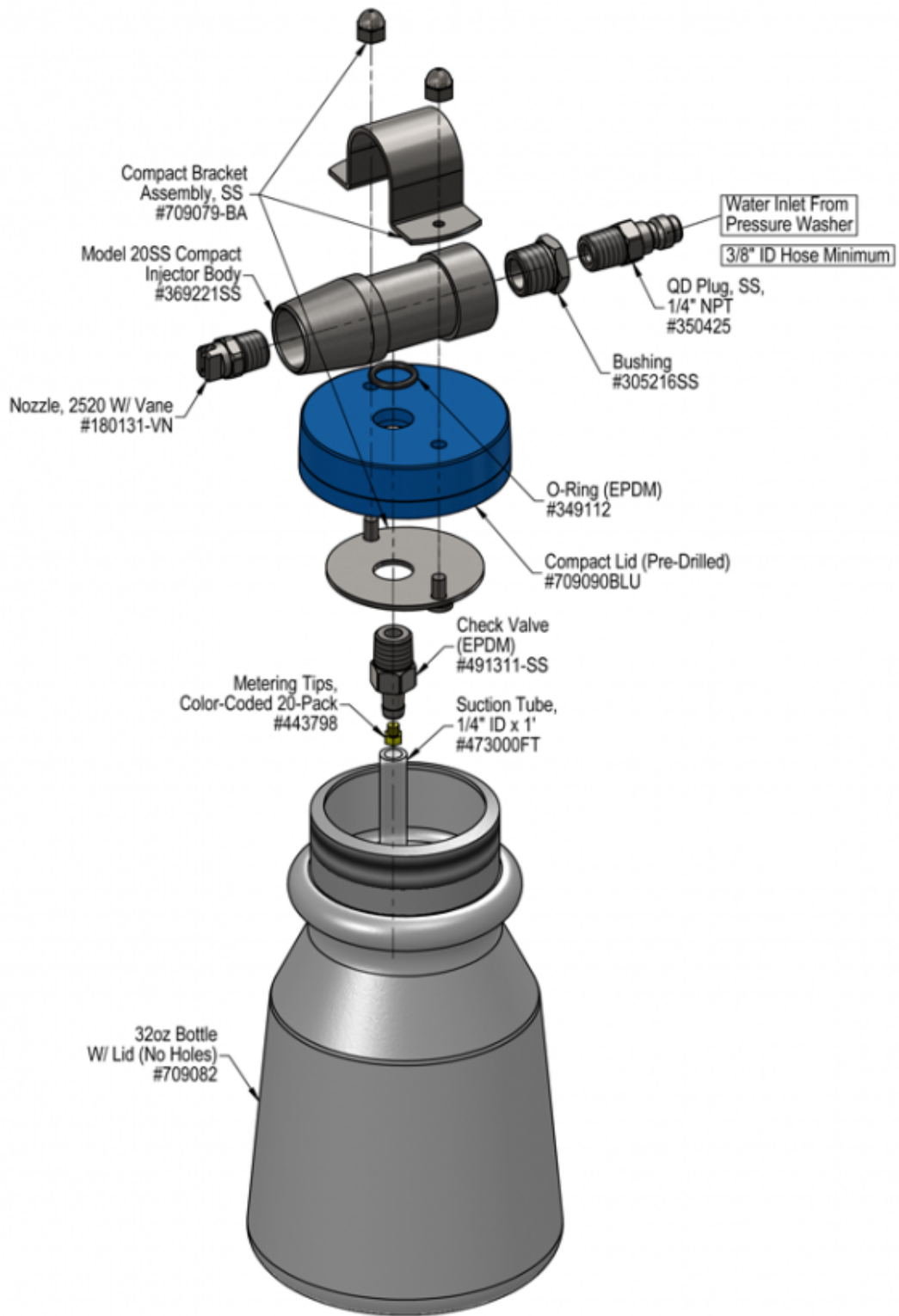
Metering Tip Selection Chart		
Metering Tip Color	Oz. per Min.	Example: Dilution Ratio @ 4.0 GPM
Brown	.56	914:1
Clear	.88	582:1
Bright Purple	1.38	371:1
White	2.15	238:1
Pink	2.93	175:1
Corn Yellow	3.84	133:1
Dark Green	4.88	105:1
Orange	5.77	89:1
Gray	6.01	85:1
Light Green	7.01	73:1
Med. Green	8.06	64:1
Clear Pink	9.43	54:1
Yellow Green	11.50	45:1
Burgundy	11.93	43:1
Pale Pink	13.87	37:1
Light Blue	15.14	34:1
Dark Purple	17.88	29:1
Navy Blue	25.36	20:1
Clear Aqua	28.60	18:1
Black	50.00	10:1
No Tip	-	6.5:1

The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

Metering Tip Selection Formula

$$\text{(GPM x 128) / Dilution Ratio} = \text{Oz. per Min}$$

Flow Rate Chart	
Water Flow Rate	GPM
	3.0
	3.5
	4.0
	5.0
	6.0



Troubleshooting Guide

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Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Unit will not draw chemical.	1, 2, 3	6, 7, 8, 9, 10
B) Does not clean properly	1, 4	6, 7, 8, 10
C) Using too much chemical	5	

Possible Cause / Solution	
Startup	Maintenance
<ol style="list-style-type: none"> 1. GPM too low <ul style="list-style-type: none"> ◦ See requirements. 2. Water inlet clogged <ul style="list-style-type: none"> ◦ Clean the water inlet. DO NOT DRILL OUT 3. Chemical tube not immersed in chemical or depleted <ul style="list-style-type: none"> ◦ Immerse tube or replenish. 4. Dilution too weak / Chemical is very thick. <ul style="list-style-type: none"> ◦ Install larger metering tip or remove metering tip. 5. Dilution too strong / No metering tip installed or wrong metering tip installed <ul style="list-style-type: none"> ◦ Install a metering tip or install a smaller metering tip. 	<ol style="list-style-type: none"> 6. Metering tip holder clogged or loose. 7. Clean or tighten. <ul style="list-style-type: none"> ◦ 8. Chemical strainer or metering tip blocked <ul style="list-style-type: none"> ◦ Clean or replace chemical strainer and/or metering tip. 9. Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube (sucking air in) which reduces chemical intake <ul style="list-style-type: none"> ◦ Cut off end of tube or replace tube. 10. Discharge nozzle is wrong size <ul style="list-style-type: none"> ◦ Install correct nozzle (see parts drawing). 11. Chemical build-up or hard water scale may have formed in the injector body causing poor or no chemical pick-up <ul style="list-style-type: none"> ◦ Follow Preventive Maintenance instructions below, using hot water and/or descaling acid. When there is no draw at all soak entire sprayer in de-scaling acid.

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.

