AFCO Installation & Operation Instructions

Model #AF 969520 ◆Model 20 SS Hose End Sprayer

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

Lid & Suction Hose for 1 & 5 Gallon Pails

Pail Lid Suction Hose Assembly # 709101

WEIGHT & DIMENSIONS

Shipping Weight: 2 lbs.

Shipping Dimensions: 15" x 8" x 5"





READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!



The Model 20 Stainless Steel Hose-End Sprayer is a high pressure chemical spray applicator for quickly diluting and applying virtually any liquid chemical. This venturi injection system works with a 2.2 - 6 GPM pressure washer to draw chemical concentrate 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.
- <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. Hold the trigger gun firmly and direct the discharge in a safe direction. Pull the trigger and begin application. Make final metering tip adjustments based on application results. Try the next larger sized metering tip until the results are acceptable.
- 2. When application is complete, release the trigger.
- 3. To rinse, disconnect the sprayer and re-connect the original rinse nozzle. Rinse the work surface before the chemical dries.
- 4. To increase the distance and impact of the discharge the fan nozzle can be removed.
- 5. If the sprayer will not be used for a period of time it is BEST to draw fresh water through the pick up tube to prevent chemical from drying inside the check valve and injector body.

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		

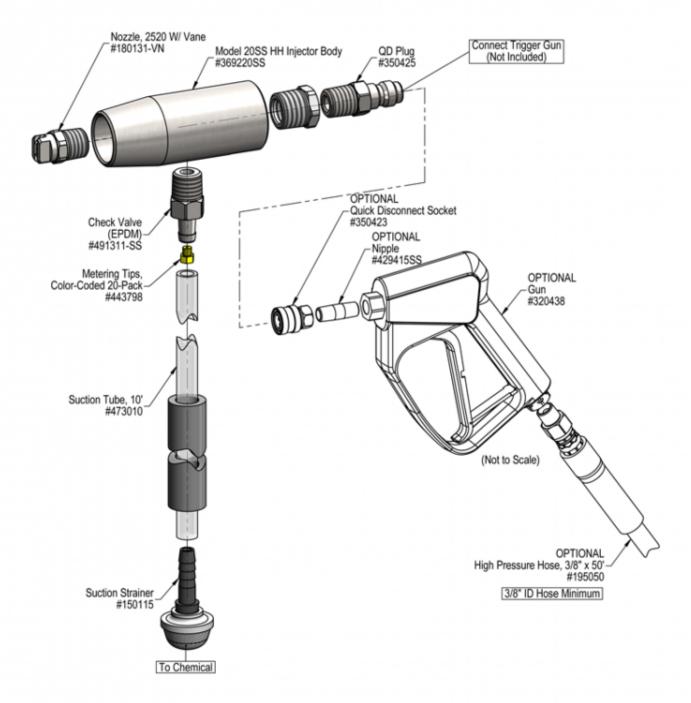
The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

Metering Tip Selection Formula

(GPM x 128) / Dilution Ratio

= Oz. per Min

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



Troubleshooting Guide

AF 969520 ● Model 20 SS Hose End Sprayer

Problem	Poss	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		

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Possible Cause / Solution			
Startup	Maintenance		
GPM too low ○ See requirements.	6. Metering tip holder clogged or loose.7. Clean or tighten.		
2. Water inlet clogged○ Clean the water inlet. DO NOT DRILL OUT	8. Chemical strainer or metering tip blocked • Clean or replace chemical strainer and/or metering tip.		
 3. Chemical tube not immersed in chemical or depleted • Immerse tube or replenish. 	Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube (sucking air in) which reduces chemical intake		
 4. Dilution too weak / Chemical is very thick. • Install larger metering tip or remove metering tip. 	Cut off end of tube or replace tube.		
5. Dilution too strong / No metering tip installed or wrong metering tip installed	10. Discharge nozzle is wrong sizeInstall correct nozzle (see parts drawing).		
 Install a metering tip or install a smaller metering tip. 	 11. Chemical build-up or hard water scale may have formed in the injector body causing poor or no chemical pick-up 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.



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