Best Sanitizers, Inc. Installation & Operation Instructions

Model # MD20006 · BSI Compact Airless Foamer

REQUIREMENTS Chemical Concentrate Water Temperature up to 160°F Pressure 20 - 100 PSI Flow 1.25 GPM @ 40 PSI Supply Line 1/2"

OPTIONS	
Additional 32oz Bottles	
Bottle, 32oz	# 709082
Stainless Steel Hose Racks	
Hose Rack, Large, SS	# USP20034-L
Hose Rack, Small, SS	# USP20034-SM

WEIGHT & DIMENSIONS		
Shipping Weight:	3 lbs.	
Shipping Dimensions:	15" x 8" x 5"	





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WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The BSI Compact Airless Foamer is a unique medium volume hose-end foam gun for diluting and applying foaming chemicals to any surface. This unit uses standard city water pressure to draw chemical concentrate from the attached bottle and blend it into the water stream. The accurately diluted solution flows through the foam wand to create a clinging, wet foam which is then projected on to any surface up close or at distances up to 12 feet.

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.
- Follow the chemical manufacturer's safe handling instructions.
- NEVER mix chemicals without first consulting chemical manufacturer.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

If you are connecting to a potable water supply follow all local codes for backflow prevention.

- 1. Connect garden hose gun to a standard garden hose.
- 2. Select and install metering tip.
- 3. Fill or partially fill bottle with chemical concentrate and attach bottle to foamer. Do NOT over tighten.

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 lid, install the selected colored metering tip, add chemical concentrate to the bottle and re-attach. Do not over tighten.
- 2. Connect to a standard garden hose.
- 3. Hold the garden hose gun and 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. In some cases when the chemical is very thick you may have to dilute it slightly.
- 5. When application is complete, release the trigger.
- 6. To rinse, quick disconnect the bottle from the gun and rinse before the chemical dries.

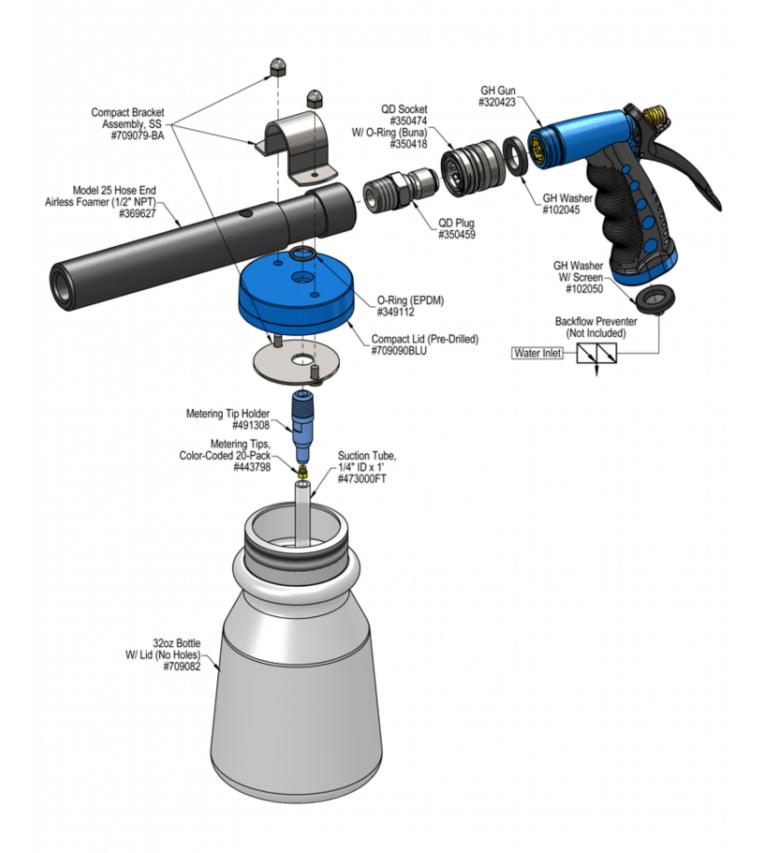
Metering Tip Selection Chart				
Metering	Oz. per Example: Dilution			
Tip Color	Min.	Ratio @ 40 PSI		
Brown	0.56	286:1		
Clear	0.88	182:1		
Bright Purple	1.38	116:1		
White	2.15	74:1		
Pink	2.93	55:1		
Corn Yellow	3.84	42:1		
Dark Green	4.88	33:1		
Orange	5.77	28:1		
Gray	6.01	27:1		
Light Green	7.01	23:1		
Med. Green	8.06	20:1		
Clear Pink	9.43	17:1		
Yellow Green	11.50	14:1		
Burgandy	11.93	13:1		
Pale Pink	13.87	12:1		
Light Blue	15.14	11:1		
Dark Purple	17.88	9:1		
Navy Blue	25.36	6:1		
Clear Aqua	28.60			
Black	50.00	_		
No Tip Ratio L	Јр То:	6.0:1		
The dilution ratios above are approximate				

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	
40	1.25	
50	1.40	
60	1.53	
70	1.65	
80	1.77	
90	1.88	
100	1.98	



Problem	Possi	Possible Cause / Solution	
	Startup	Maintenance	
A) Unit will not draw chemical	1, 5, 6, 7	9, 10, 11, 12, 13, 14	
B) Foam does not clean or project foam properly	2, 4, 5, 7, 8	9, 10, 11, 12, 13, 14	
C) Using too much chemical	3		

Possible Cause / Solution		
Maintenance		
9. Metering tip partially blocked○ Clean or replace metering tip.		
10. Chemical tube stretched out or chemical tube is not on ○ Cut 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 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 body 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.

