AFCO
Installation & Operation Instructions

Model #AF 976256 •Timed PF Entryway MV Foam Sanitizer

REQUIREMENTS

Ready-to-Use Chemical Solution (Minimum 35 PSI at the Unit)	
Temperature	up to 160°F
Pressure	35 - 75 PSI
Flow	2.45 GPM @ 40 PSI
Supply Line	1/2"
Compressed Air	up to 3 CFM
Hose	1" x 25'
Nozzle	MV Entryway Spreader
Electric	120V

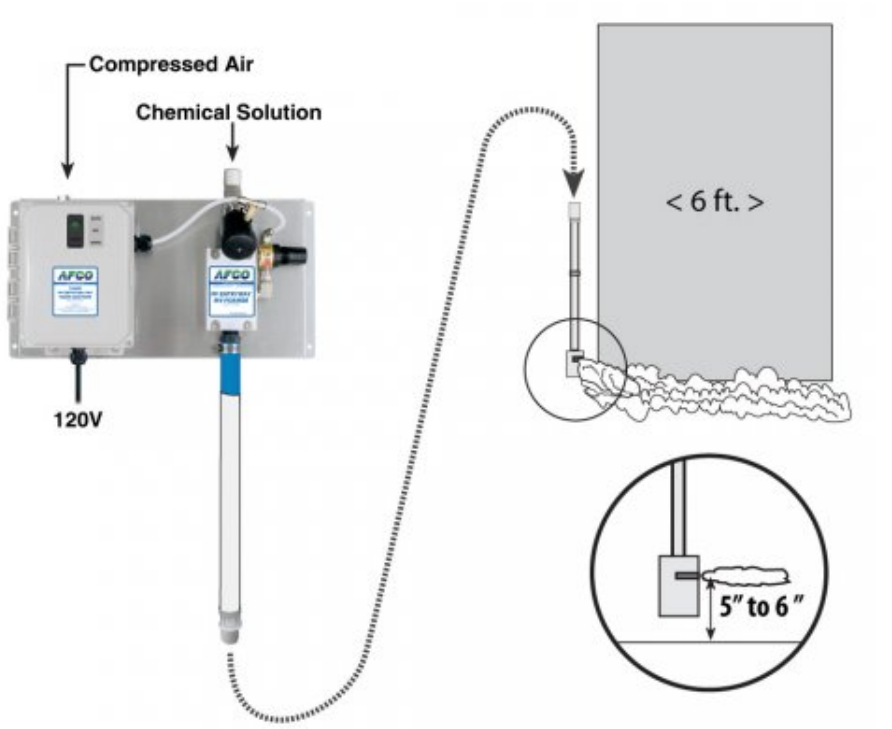
OPTIONS

Central Air Pump Systems	
Mini-Central System Air Pump System	# 919050
Central System Air Pump System	# 919060
Level Masters Provide an Automatic Supply of Ready-to-Use Chemical	
20 Gallon Level Master	# 989020
40 Gallon Level Master	# 989040
60 Gallon Level Master	# 989046
High Flow Level Masters Provide an Automatic Supply of Ready-to-Use Chemical	
60/10 High Flow Level Master	# 989106
60/20 High Flow Level Master	# 989108

WEIGHT & DIMENSIONS

Shipping Weight: 21 lbs.

Shipping Dimensions: 22" x 19" x 9"



http://www.afcocare.com

READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

Overview

The Timed PF Entryway MV Foam Sanitizer is an automated foam applicator for projecting sanitizing chemicals on to floors of 6' wide double doors to prevent cross contamination. This system receives ready-to-use chemical from a user-supplied central chemical feed system. Rich, clinging foam is created by injecting compressed air into the solution to greatly increase volume and coverage ability. Foam is then projected through the discharge hose and Spreader™ nozzle. The system timer is user-programmable to meet the needs of any facility.

⚠ Safety & Operational Precautions

- **Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician.**
- For proper performance do NOT modify, substitute nozzle, hose diameter or electrical control box.
- 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.
- Disconnect electrical power to the control box prior to opening it.

Flow Rate Chart	
Pressure	Flow Rate
PSI	GPM
40	**2.45**
50	2.74
60	3.00
70	3.24
80	3.46
90	3.68
100	3.87
110	4.06
120	4.24

TO INSTALL (REFER TO DIAGRAM, NEXT PAGE.)

1. Mount the unit to a suitable surface near the entryway
2. See Page 1 for proper installation layout.
3. Connect the section of 1" hose to the foamer and any 1" pipe you installed.
4. For proper performance, a minimum of 25' discharge hose/pipe is required. Use as few elbows as possible.
5. Mount the spreader nozzle slot at 5-6" off the floor.
6. Connect chemical solution supply - a solution check valve is recommended.
7. Connect compressed air to the unit.

TO OPERATE

TO TEST

1. Plug the power cord into 120 VAC outlet.
2. The unit has been tested and the timer is preset to run for 60 seconds to allow for final adjustments. (ON TIME will activate first.) Open your chemical solution supply valve and your air supply valve, and then turn on the power switch.
3. Final air adjustments will now have to be made.
4. Wait a few seconds and observe foam consistency.
    - Use the least amount of air needed to achieve good foam quality to prevent solution pressure fluctuations from affecting performance. Air pressure must be kept lower than solution pressure.
    - To adjust foam consistency pull out on the air regulator knob, turn slightly clockwise for dryer foam and counterclockwise for wetter foam. Wait a few seconds to see each adjustment.
    - Once desired foam consistency is achieved push lock the knob. You are ready to start.

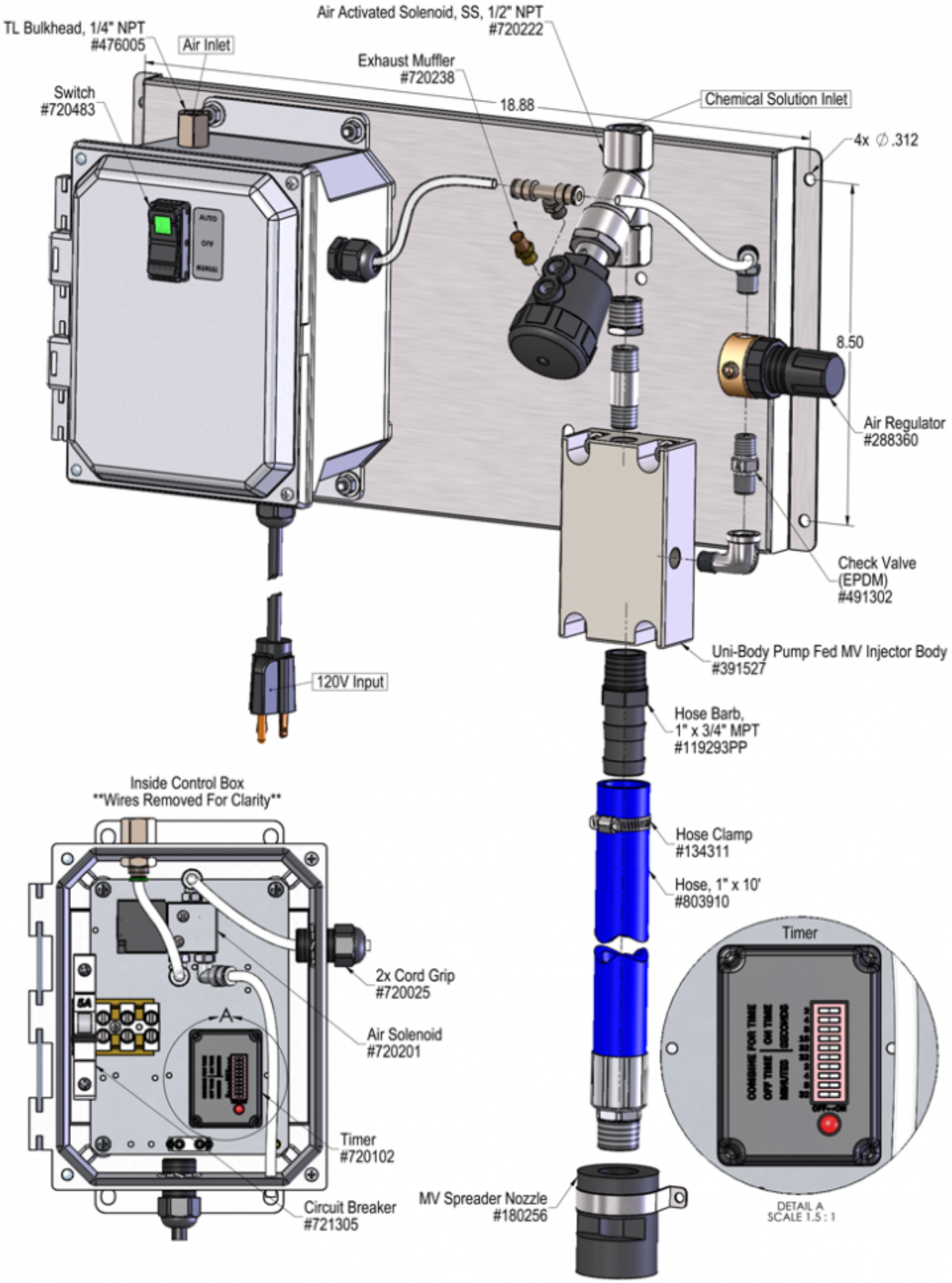
TIMER ADJUSTMENT

1. CAUTION! UNPLUG THE POWER CORD! Then open control box and adjust the timer. The ON TIME dip switches control how long the foam will be applied. The OFF TIME dip switches control how long the unit will stay off between foam applications. Add up the seconds for each activated dip switch to arrive at the desired duration of the ON cycle. Usually 8-10 seconds is sufficient to foam the floor (longer plumbing runs will require a longer application cycle). Add up the minutes for each activated dip switch to arrive at the desired duration of the OFF cycle. Set your OFF TIME to maintain the foam's presence according to your flow (anywhere from 6 to 15 minutes).
2. Close control box and plug in the power cord. Turn on the power switch. The unit will now function according to the timer settings. (ON TIME will activate first.)

    - Note: The unit will run 24 hours a day unless the power switch is manually turned off.
    - For extra foam at any time, press and hold the lower end (Momentary control) of the door switch. (See Switch Settings, below.)

SWITCH SETTINGS

- Automatic control – Top of switch is depressed. Green light glows.
- OFF – Switch is in middle position; green light is off
- Momentary control – Press bottom of switch. Unit is active only while switch is pressed. When released, the switch returns to the OFF position.


TL Bulkhead, 1/4" NPT
#476005
Air Inlet
Air Activated Solenoid, SS, 1/2" NPT
#720222
Exhaust Muffler
#720238
Switch
#720483
18.88
Chemical Solution Inlet
4x ∅.312
8.50
Air Regulator
#288360
Check Valve
(EPDM)
#491302
Uni-Body Pump Fed MV Injector Body
#391527
120V Input
Hose Barb,
1" x 3/4" MPT
#119293PP
Inside Control Box
Wires Removed For Clarity
Hose Clamp
#134311
Hose, 1" x 10'
#803910
Timer
2x Cord Grip
#720025
Air Solenoid
#720201
Timer
#720102
Circuit Breaker
#721305
MV Spreader Nozzle
#180256
DETAIL A
SCALE 1.5 : 1

Troubleshooting Guide

AF 976256 ● Timed PF Entryway MV Foam Sanitizer

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Foam surges.	1, 2, 3, 4, 6, 7, 8, 9, 10, 11	13, 15, 16
B) Foam output too wet.	2, 3, 4, 6, 7, 8, 9, 10, 11	13, 14, 15, 16
C) Foam output too dry.	1, 5	13, 14
D) Unit doesn't come on when switch is turned on.	11, 12	
E) Unit comes on and runs continuously.	11	
F) Unit comes on but no solution through solenoid.	12	15

Possible Cause / Solution

Startup

1. **Air pressure too high**
   - Adjust air regulator slowly counterclockwise until output stabilizes.
2. **Air adjustment too low**
   - Adjust air regulator very slowly clockwise.
3. **Use of an oiler in the airline will cause poor foam quality**
   - Use only clean, dry air.
4. **Not enough chemical**
   - Increase chemical concentration.
5. **Too much chemical**
   - Decrease chemical concentration.
6. **Improper chemical**
   - Ensure product is recommended for foaming and/or the application.
7. **Foam hose kinked or hose/plumbing too long or wrong size (See REQUIREMENTS)**
   - Straighten the hose.
8. **Nozzle size too small (See REQUIREMENTS)**
9. **Chemical solution pressure too low or volume too low / inlet piping too small**
   - Increase solution pressure or volume (See REQUIREMENTS).
10. **No chemical solution to the unit**
    - Ensure that the chemical solution supply is not shut off to the unit.
11. **Timer failed/Controller not set properly or malfunctioned**
    - Replace timer. See Controller manual.
12. **May have electrical problems**
    - Have a qualified electrician check electrical connections. Ensure circuit breaker (5 amp) has not been tripped at control box.

Maintenance

13. **Air regulator failed allowing too much air or not enough air**
    - Clean or replace.
14. **Air check valve or air solenoid clogged or failed**
    - Clean or replace.
15. **Chemical solution solenoid clogged or failed**
    - Clean or replace.
16. **Chemical build-up may have formed in the body, causing poor or no chemical pick-up**
    - Follow PREVENTIVE MAINTENANCE instructions below, using water. In extreme cases, carefully remove fittings and soak entire body in descaling acid.

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods run water through the system to flush the chemical and help prevent chemical build-up.