

Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 976250 • Timed PF Entryway Foam Sanitizer

REQUIREMENTS

Ready-to-Use Chemical Solution

Temperature	up to 160°F
Pressure	35 to 75 PSI
Flow	1.34 GPM @ 40 PSI
Supply Line	1/2"

Compressed Air	up to 3 CFM
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Hose	3/4" ID x 10'
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Nozzle	Entryway Spreader
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Electric	120V
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OPTIONS

Central Pump Systems (AODD)

Mini-Central Pump System (1/2" PP)	# 919050
Central Pump System (1" SS)	# 919060SS

Level Masters Provide an Automatic Supply of Ready-to-Use Chemical

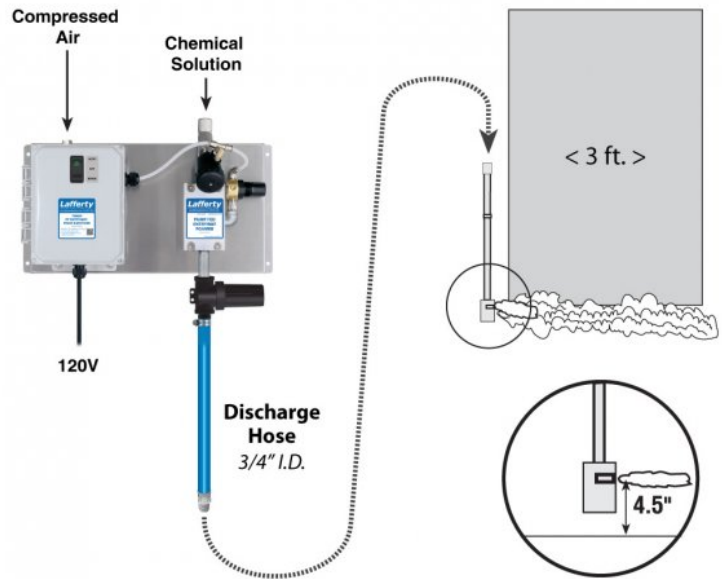
Level Master (Various Tank Sizes)	# 989304
Gemini Level Master (Various Tank Sizes)	# 989316

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

Control Box Upgrades (Specify at Time of Purchase)

Photocell Activation Upgrade	# 976003EE
Push Button Activation Upgrade	# 976003PB



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501-851-2820

**WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**

OVERVIEW

The Timed PF Entryway Foam Sanitizer is an automated foam applicator for projecting sanitizing chemicals on to floors of 3' wide employee walk 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

- See Additional Safety Precautions included with the Electrical Control Box Installation Information
- 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, per Local and State Electrical Codes.
- 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.

UNIT FLOW RATES

PSI	GPM
35	1.25
40	1.34
50	1.50
60	1.64
70	1.77
75	1.83

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

Illustration on Page 1 shows overall system setup. Refer to companion instructions for control box upgrades.

1. Install foam enhancer to entryway foamer discharge. The arrow on the foam enhancer should point UP - opposite the flow direction.
2. Mount the unit to a suitable surface near the entryway.
3. Connect the unit to the spreader nozzle using only the provided 10' hose, or extend the discharge using hose or piping that matches the ID of the provided hose (hose ID is very important). Use as few elbows as possible. Minimum length of the total hose/pipe between unit and nozzle is 10'.
4. Mount the spreader nozzle slot several inches off the ground (refer to Page 1 illustration for details)
5. Connect chemical solution supply - **a solution check valve is recommended.**
6. Connect compressed air to the unit.

TO OPERATE

TO TEST

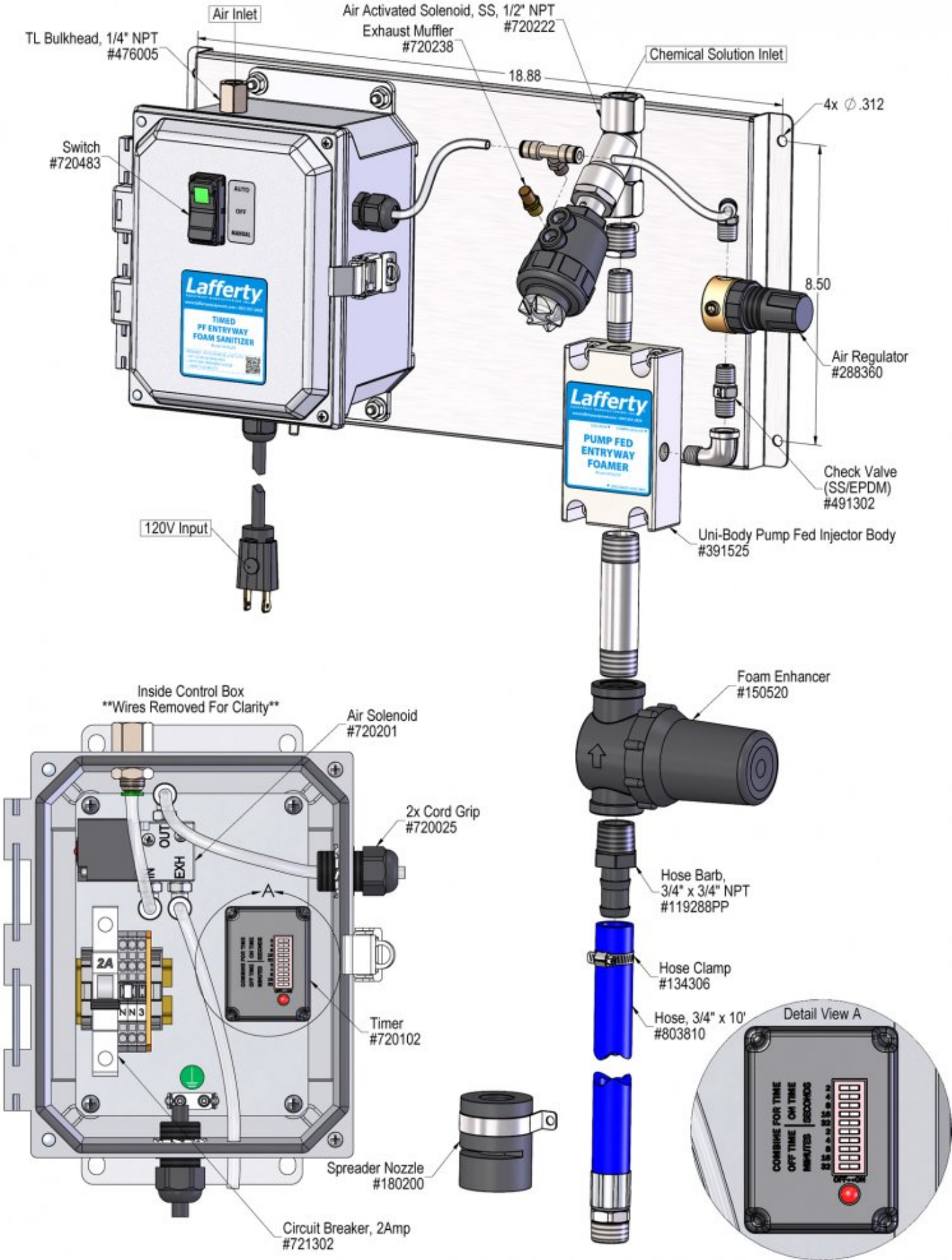
1. Plug the power cord into 120 VAC outlet.
2. The unit has been tested and the timer is preset to run for 60 seconds to allow for final adjustments. (ON TIME will activate first.) Open chemical solution supply valve and air supply valve, then turn on the power switch.
3. Final air adjustments will now 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 POWER CORD! Then open control box and adjust timer. The ON TIME dip switches control how long 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 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 (on front of control box)

- 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.



Troubleshooting Guide

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	Maintenance
1. Air pressure too high ◦ Adjust air regulator slowly counterclockwise until output stabilizes.	13. Air regulator failed allowing too much air or not enough air ◦ Clean or replace.
2. Air adjustment too low ◦ Adjust air regulator very slowly clockwise.	14. Air check valve or air solenoid clogged or failed ◦ Clean or replace.
3. Use of an oiler in the airline will cause poor foam quality ◦ Use only clean, dry air.	15. Chemical solution solenoid clogged or failed ◦ Clean or replace.
4. Not enough chemical ◦ Increase chemical concentration.	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.
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.	

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.

