

LAFFERTY EQUIPMENT MANUFACTURING, INC.

Installation & Operation Instructions

Model # 950114 • 305 4-Way Pump Fed Fogger

REQUIREMENTS

Compressed Air:

Flow @ 80 PSI 29.5 CFM
Supply Line 1" ID Minimum

Solution Supply Line: 1/2" ID

OPTIONS

- 3-Zone PF Fogger PLC Vision Controller #950843
- 6-Zone PF Fogger PLC Vision Controller #950846
- Zone Control Kit #950850
- Metered Bleed Assembly #950852



**READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**

www.LaffertyEquipment.com • 501-851-2820



Principles of Operation

Powered by compressed air and fed chemical solution from a central chemical feed system, Lafferty Pump Fed Foggers atomize chemical solution. Adjustable to produce wet or dry fog.



Safety & Operational Precautions

- Manufacturer assumes no liability for the use or misuse of this unit
- Wear protective clothing, gloves and eyewear when working with chemicals
- Always direct discharge away from electrical devices
- Follow the chemical manufacturer's safe handling instructions
- **SPECIAL CAUTION: This fogger atomizes chemical into the air. Ensure that the area to be fogged has been evacuated of all people and/or animals before commencing fogging operation. Upon completion of fogging, ensure that sufficient time has elapsed for all the fog to have dissipated before returning to the area without proper respiratory protection.**
- **SPECIAL CAUTION: When fogging with off-gassing chemicals, such as peracetic acid, a Metered Bleed Assembly is required. This relieves pressure in the RTU solution line when fogging has been completed and can be installed at any convenient point within each zone, adjacent to a drain.**

INSTALLATION

1. Pump Fed Foggers can be plumbed into single or multiple zones.
2. Each zone can include a combination of 4-Way or 8-Way Pump Fed Foggers. The number of foggers which can be run on each zone will depend on the volume (CFM) of compressed air available. (See Requirements) For practical purposes, a zone is typically limited to a maximum of four 8-Way foggers or eight 4-Way foggers.
3. Foggers may be mounted above or below the ceiling. (If above, the nipple and chemical tube will have to be lengthened). Make sure the foggers are at least 14" below the ceiling to avoid the fog plume directly hitting the ceiling, interfering with the fogging action and causing dripping onto surfaces below.
4. Install a 1" compressed air line and a 1/2" chemical solution line to each fogger manifold, either in series through the manifolds or to individual foggers.
5. Install terminating plugs in the last fogger assembly in line (or to each fogger assembly, if connected individually)

FOR MANUAL OPERATION

To adjust the fog consistency needle valve, test with WATER ONLY prior to any chemical use!

6. Completely close the RTU solution needle valves on each fogger assembly and then open 1 ½ turns
7. Connect a city water pressure (35 psi) supply to the chemical solution line and compressed air to the air line.
8. Turn on air and water supply.
9. Allow fog to stabilize and observe fog volume/density.
10. Either: Turn off air and water supply and adjust each solution needle valve to produce fog of the desired density. Repeat steps 9. and 10. as required. Or: While the fogger is running adjust each solution needle valve to produce fog of the desired density
11. Turn off air and water supply and disconnect from zone.
12. Connect each zone to a central chemical solution feed system, compressed air and manual controls.

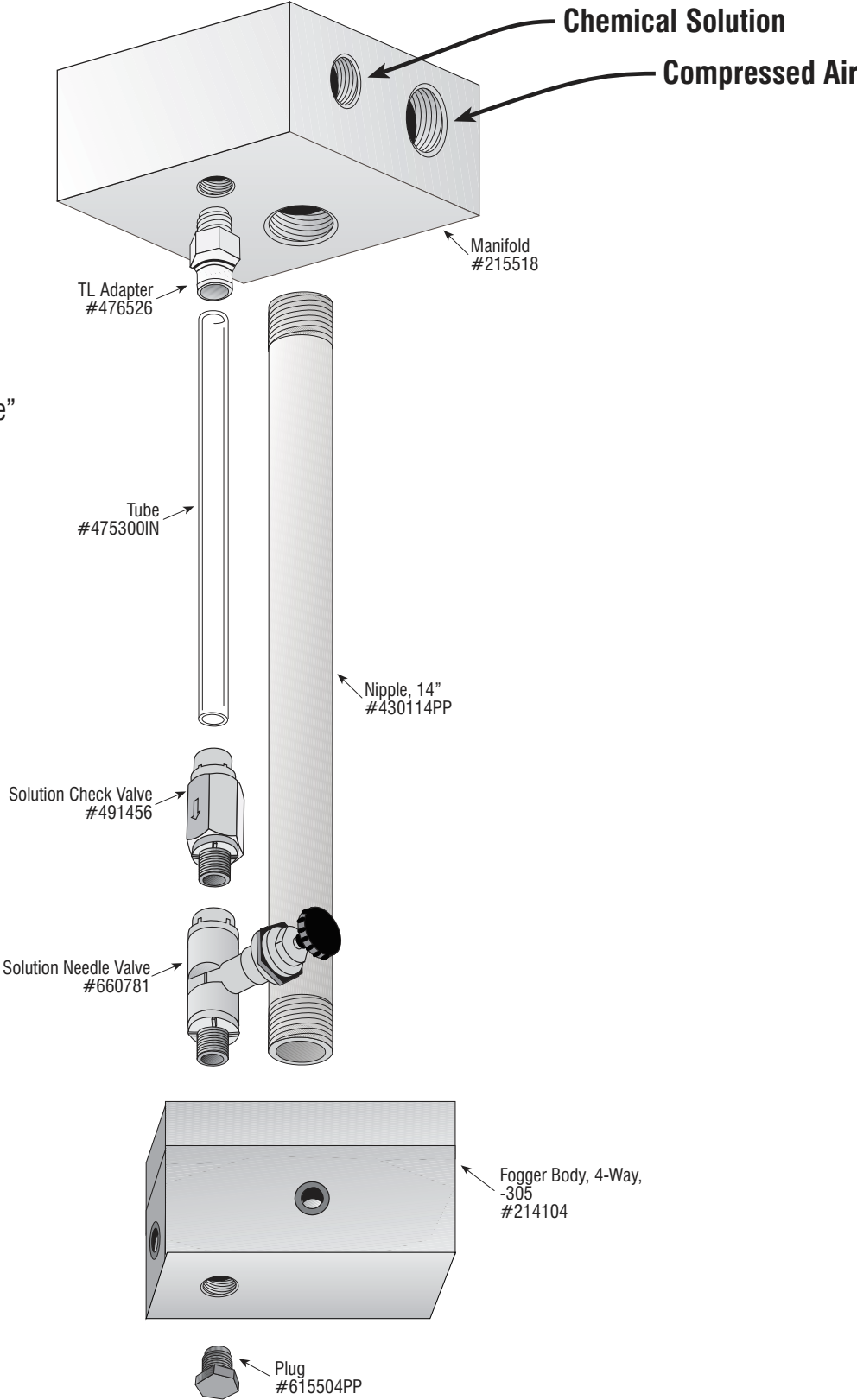
FOR USE WITH A LAFFERTY VISION CONTROLLER

To adjust the fog consistency needle valve, test with WATER ONLY prior to any chemical use!

13. When the foggers are to be controlled by a Lafferty Vision Controller (3-Zone or 6-Zone), each zone requires a Zone Control Kit.
14. Install the Air Activated compressed air and chemical solution solenoids from the Zone Control Kit at a convenient point at the start of each zone
15. Completely close the RTU solution needle valves on each fogger assembly and then open 1 ½ turns
16. Connect a separate city water pressure (35 psi) supply to the chemical solution line and compressed air to the air line.
17. Program fogger controller for required operation.
18. Turn on air and water supply and activate solenoids.
19. Allow fog to stabilize and observe fog volume/density.
20. De-activate solenoids.
21. Either: Turn off air and water supply and adjust each solution needle valve to produce fog of the desired density. Repeat steps 18-20 as required. Or: While the fogger is running adjust each solution needle valve to produce fog of the desired density.
22. Turn off air and disconnect water supply from zone.
23. Connect each zone to a central chemical solution feed system, compressed air and to your choice of Vision fogger controller.

 **Always turn off water when unit is not in use.**

Drawing not "To Scale"



Troubleshooting Guide

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PROBLEM	Possible Cause / Solution
A) Fogger sputtering or fog not acceptable	1, 2, 3, 4
B) Fog is too wet..	1, 3, 4

Possible Cause / Solution

- 1. Not enough air pressure or volume**
- 2. Airline too small**
 - See *REQUIREMENTS*
- 3. Debris clogging air inlet(s) of fogger**
 - Disconnect air supply and visually inspect; remove debris from fogger inlet(s).
- 4. Drawing too much or not enough solution**
 - Adjust chemical solution needle valve

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, remove chemical tubes from chemical concentrate(s) and place in water.