

LAFFERTY EQUIPMENT MFG., INC.

INSTALLATION / OPERATION INSTRUCTIONS

AIR OPERATED FOGGERS

Foggers can be used individually or in conjunction with other foggers (in any combination) as a Central Fogging System. Optional Control Boxes are available for operating foggers on a timed system.



1-Way Fogger Requirements

40 – 90 PSI Air — 10 – 23 SCFM
1/4" airline (minimum)

Model # 950201, 455 1-Way Fogger
Model # 950101, 305 1-Way Fogger
Model # 950301, 324 1-Way Fogger
(with ball valve)

Model # 950211, 455 Thumb Gun Fogger
Model # 950111, 305 Thumb Gun Fogger
Model # 950311, 324 Thumb Gun Fogger
(with thumb gun, see diagram pg. 3)



2-Way Fogger Requirements

40 – 90 PSI Air — 20 – 46 SCFM
3/8" airline (minimum)

Model # 950202, 455 2-Way Fogger
Model # 950102, 305 2-Way Fogger
Model # 950302, 324 2-Way Fogger



4-Way Fogger Requirements

40 – 90 PSI Air — 60 – 80 SCFM
1/2" airline (minimum)

Model # 950204, 455 4-Way Fogger
Model # 950104, 305 4-Way Fogger
Model # 950304, 324 4-Way Fogger

**Ask about our Portable 4-Way Foggers
and our Lower Volume Foggers**

INSTALLATION AND OPERATION INSTRUCTIONS

AIR OPERATED FOGGERS

CAUTION: ALWAYS OBSERVE GOOD SAFETY HABITS. WEAR PROTECTIVE CLOTHING, GLOVES, AND EYE WEAR. DIRECT DISCHARGE AWAY FROM YOURSELF AND OTHERS.

TO INSTALL / OPERATE

(See Parts Diagram, Facing Page)

Determine the best mounting location for optimum fog coverage. (Fog projects up to 20' from each outlet.) Run air supply line from compressed air source to fogger mounting location.

- 1-Way Foggers require a 1/4" minimum airline (maximum of one 1-Way Fogger per 1/4" airline OR three 1-Way Foggers per 3/8" airline.)
- 2-Way Foggers require a 3/8" minimum airline (maximum of two 2-Way Foggers per 3/8" airline.)
- 4-Way Foggers require a 1/2" minimum airline (maximum of two 4-Way Foggers per 1/2" airline.)

1-WAY FOGGERS

1. Connect your 40-90 PSI compressed air supply to the fogger. [**Airline must be 1/4" minimum, 10 – 23 SCFM.**]
2. Push the chemical tube over the metering tip holder.
3. Place the chemical strainer in your **premixed** chemical solution.
4. While holding the air ball valve or trigger gun, aim fogger. Open the air ball valve or depress trigger gun to begin fogging. [**Be mindful of where you discharge fog. Never discharge toward electrical outlets, etc.!**]
5. Observe fog quality. If fog is too wet, order and install optional metering tip.
6. When finished fogging, close the air ball valve or release trigger.

2-WAY and 4-WAY FOGGERS

1. Push the manifold assembly tubes (#3 in diagram) over the metering tip holders as shown in the diagram.
2. Connect your 40-90 PSI compressed air supply to the fogger. [**2-Way Fogger airline must be 3/8" minimum, 20 – 46 SCFM. 4-Way Fogger airline must be 1/2" minimum, 60 – 80 SCFM.**]
3. Then, push the chemical tube (with pre-installed chemical strainer) over the push-lock tee. Lock the tee over the chemical tube. Place the chemical strainer in your **premixed** chemical solution. [With 4-Way Foggers, you may run the chemical tube through the fogger body and along the ceiling or other surface (10' or lower) for your convenience.]
4. Open your airline to begin fogging. [**Be mindful of where you discharge fog. Never discharge toward electrical outlets, etc.!**]
5. Observe fog coverage. If fog is too wet, order and install optional metering tips.
6. When finished fogging, close the airline.

IMPORTANT: If the fogger is not elevated above your chemical it may siphon chemical after the unit is shut down. To prevent siphoning, keep your fogger elevated above the chemical or remove tube from chemical.

IF IT IS NECESSARY TO MOUNT THE FOGGER HIGHER THAN 10 FT. ABOVE FLOOR LEVEL, YOU MAY HAVE TO ELEVATE YOUR CHEMICAL SOLUTION TO COMPENSATE FOR ADDITIONAL HEIGHT. ALSO, THE CHEMICAL TUBE MAY BE SHORTENED OR LENGTHENED (UP TO 50 FT.) TO SUIT THE APPLICATION. TO PREVENT CHEMICAL SIPHONING, NEVER MOUNT THE FOGGER LOWER THAN THE CHEMICAL SUPPLY.

Foggers can be used individually or in conjunction with other foggers (in any combination) as a Central Fogging System. Optional Control Boxes are available for operating foggers on a timed system.

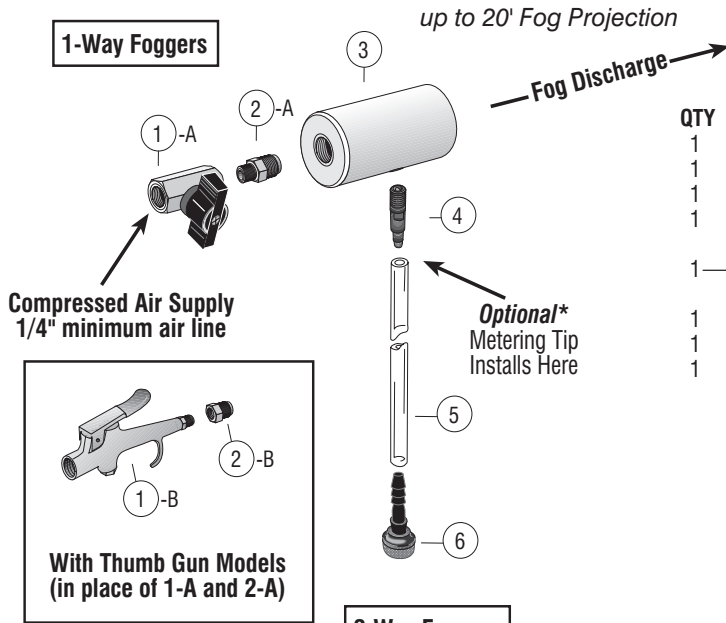
OPTIONAL METERING TIP SELECTION IN OUNCES PER MINUTE (AVERAGE)

The number under each color in the chart below represents the **average ounces of water-thin chemical which will pass through the tip per minute.**

COLOR	Brown	Clear	Bright Purple	White	Pink	Corn Yellow	Dark Green	Orange	Gray	Light Green
Thin Chemical	0.84	1.16	1.4	2.0	2.7	3.4	4.0	5.3	6.1	7.0

AIR OPERATED FOGGERS

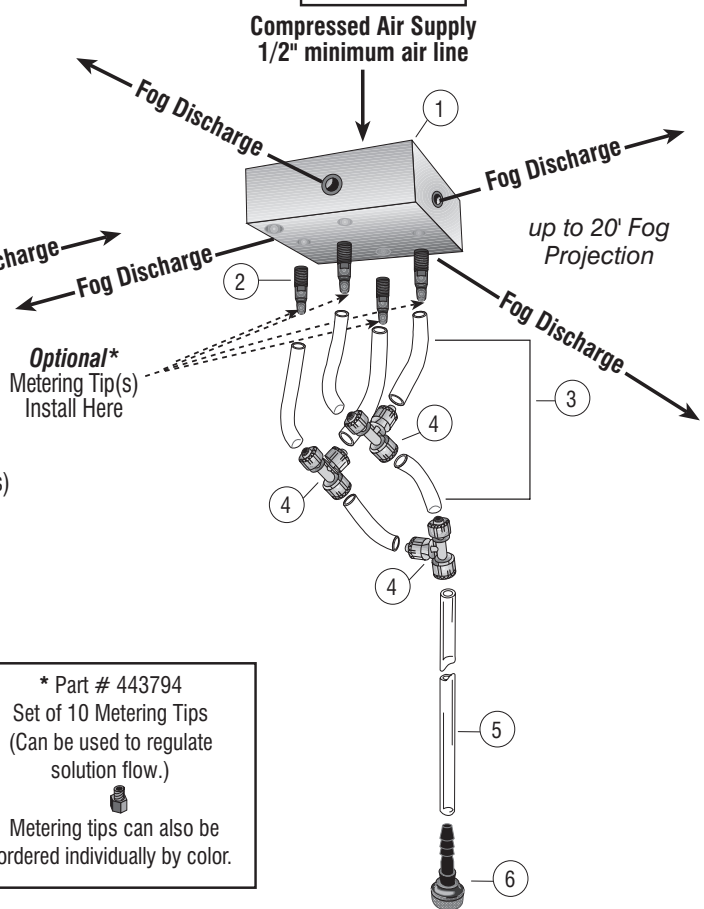
1-Way Foggers



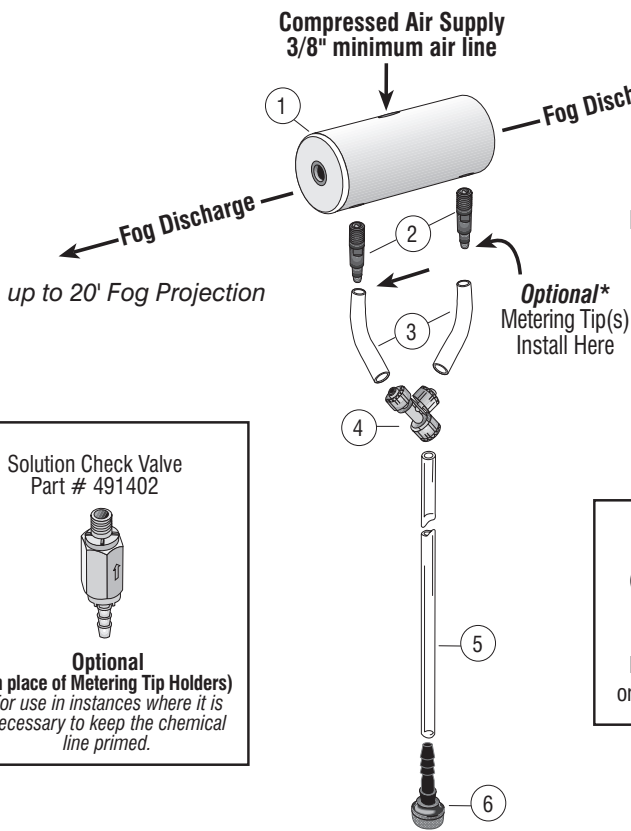
QTY	CALL #	DESCRIPTION	PART #
1	1-A	BALL VALVE, 1/4" FF (BALL VALVE MODELS ONLY)	413603
1	2-A	NIPPLE, REDUCING, 3/8" x 1/4" (BALL VALVE MODELS ONLY)	429698
1	1-B	TRIGGER GUN (THUMB GUN MODELS ONLY)	320502
1	2-B	BUSHING, 3/8" x 1/8" (THUMB GUN MODELS ONLY)	305212
1	3	FOGGER BODY, 1-WAY, 305	214101
		FOGGER BODY, 1-WAY, 455	214201
		FOGGER BODY, 1-WAY, 324	214301
1	4	METERING TIP HOLDER	491308
1	5	TUBE, CHEMICAL, 1/4" x 6'	474745
1	6	STRAINER, CHEMICAL, HASTELLOY, 1/4"	150115

1-Way Foggers

4-Way Foggers



2-Way Foggers



Solution Check Valve
Part # 491402



Optional
(In place of Metering Tip Holders)
For use in instances where it is necessary to keep the chemical line primed.

* Part # 443794
Set of 10 Metering Tips
(Can be used to regulate solution flow.)
Metering tips can also be ordered individually by color.

2-Way Foggers

QTY	CALL #	DESCRIPTION	PART #
1	1	FOGGER BODY, 2-WAY, 305	214102
		FOGGER BODY, 2-WAY, 455	214202
		FOGGER BODY, 2-WAY, 324	214302
2	2	METERING TIP HOLDER	491308
2	3	TUBE, CHEMICAL, 1/4" x 2 1/2"	N/A
1	4	TEE, PUSH LOCK, FOGGER	694497
1	5	TUBE, CHEMICAL, 1/4" x 10'	474746
1	6	STRAINER, CHEMICAL, HASTELLOY, 1/4"	150115

4-Way Foggers

QTY	CALL #	DESCRIPTION	PART #
1	1	FOGGER BODY, 4-WAY, 305	214104
		FOGGER BODY, 4-WAY, 455	214204
		FOGGER BODY, 4-WAY, 324	214304
4	2	METERING TIP HOLDER	491308
6	3	TUBE, CHEMICAL, 1/4" x 2 1/2"	N/A
3	4	TEE, PUSH LOCK, FOGGER	694497
1	5	TUBE, CHEMICAL, 1/4" x 10'	474746
1	6	STRAINER, CHEMICAL, HASTELLOY, 1/4"	150115

TROUBLESHOOTING GUIDE

for

AIR OPERATED FOGGERS

PROBLEMS	POSSIBLE CAUSE / SOLUTION									
	1	2	3	4	5	6	7	8	9	10
A) Fogger will not draw chemical/sputtering.	•	•	•	•	•	•	•	•		
B) Fog is too wet.	•	•							•	•

POSSIBLE CAUSE / SOLUTION

- Not enough air pressure** – Increase the air pressure.
- Airline not large enough** – Airline must be at least minimum I.D. and SCFM requirements.
 - 1-Way Fogger – minimum of 1/4" I.D. and 10 SCFM
 - 2-Way Fogger – minimum of 3/8" I.D. and 20 SCFM
 - 4-Way Fogger – minimum of 1/2" I.D. and 60 SCFM
- Fogger mounted too high** – Elevate your chemical solution to compensate for the additional height (10' maximum).
- Chemical tube too long** – Shorten your chemical tube.
- Pin hole or cut in chemical tube** – Replace the chemical tube.
- Chemical tube kinked or not immersed in chemical** – Straighten or immerse the chemical tube.
- Metering tip or holder clogged** – Clean or replace metering tip and/or holder.
- Debris clogging inlet of fogger** – Disconnect air supply and visually inspect; remove debris from fogger inlets.
- Too much condensation in airline** – Install separator.
- Drawing too much chemical** – Install a metering tip.

NOTES:

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Made in the USA

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