

LAFFERTY EQUIPMENT MFG., INC.

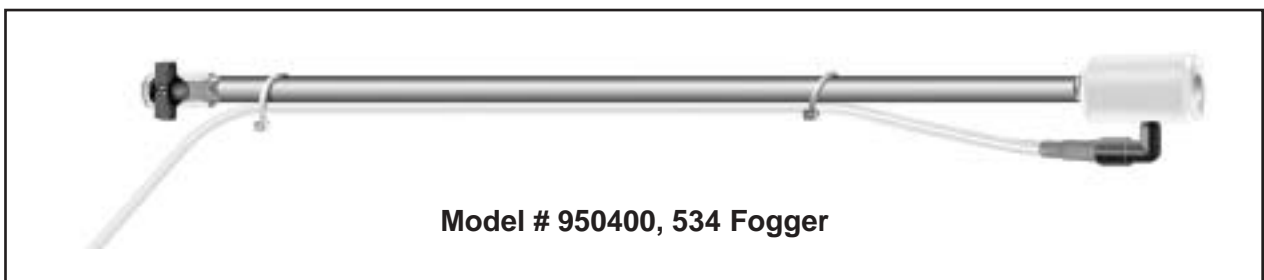
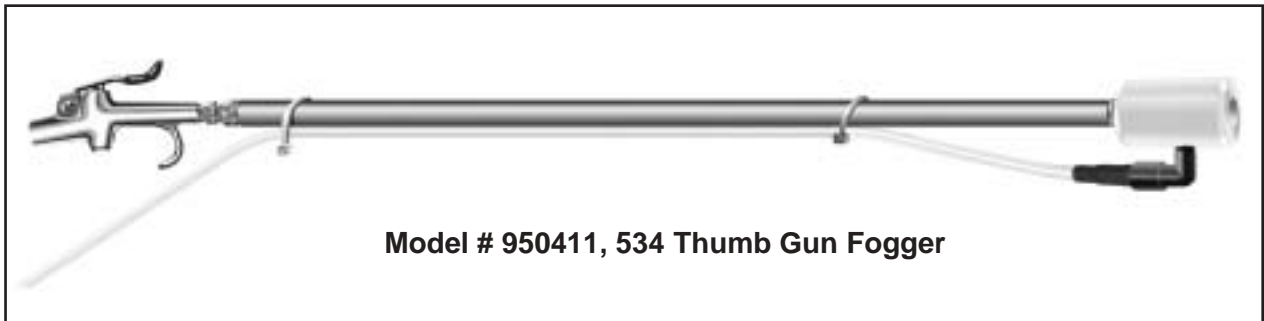
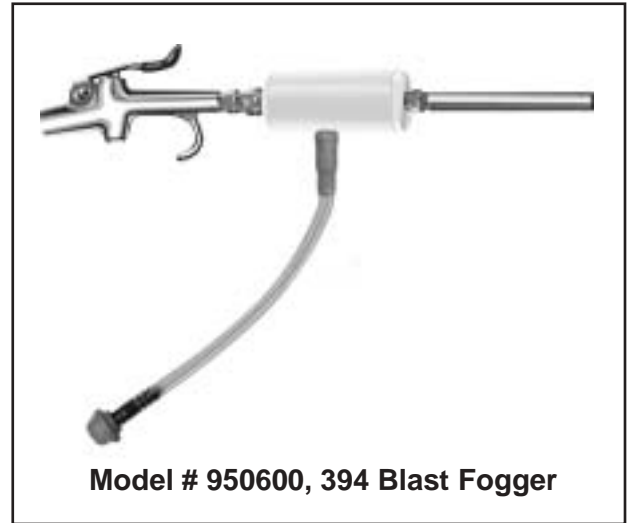
INSTALLATION / OPERATION INSTRUCTIONS

SPECIALTY FOGGERS

Requirements:

Compressed Air

(See Fogger CFM chart on back page)



Ask about our Chemical Mixing Stations for all your proportioning needs.

SPECIALTY FOGGER INSTALLATION AND OPERATION INSTRUCTIONS

CAUTION! Always observe good safety habits. All personnel should be evacuated from the area before fogging.



Always wear a respirator, protective clothing, gloves, earplugs and eye wear if unable to avoid exposure to chemical(s). Never discharge toward electrical outlets, etc.!!

Use clean, dry, bacteria free compressed air when fogging food or sensitive products.

IMPORTANT: The fogger will siphon chemical if the chemical container or chemical tube is elevated above the fogger when the unit is turned off.

TO INSTALL / OPERATE (See Parts Diagram, Facing Page)

Test the fogger with **WATER ONLY** prior to any chemical use.


1. Connect your compressed air supply to the fogger.
2. Push the chemical tube over the metering tip holder.
3. Place the chemical strainer into a container of **water** for testing, using steps 4-6.
4. **Safely** direct fogger away from yourself and others. Open the air ball valve or depress trigger on thumb gun to begin fogging. For the 431 Miniature 4-Way Fogger, activate the air supply to begin fogging.
5. Observe fog volume. Foggers may produce more volume than needed. (See chart, back page.) If fog is too dense, **optional metering tips** are available for restricting the solution volume to the fogger and producing a lighter fog.
6. When finished fogging, close the air ball valve or release trigger on thumb gun. For the 431 Miniature 4-Way Fogger, deactivate the air supply.
7. Now you are ready for chemical fogging. Place the strainer into your premixed chemical solution and repeat steps 4 and 6.

OPTIONS:

METERING TIPS

Part # 443793 – 5 Smallest
Part # 443794 – Set of 10

For regulating chemical solution flow:

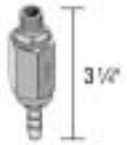


1/4"

Metering tips can also be ordered individually by color. (See chart, back page.)

SOLUTION CHECK VALVE

Part # 491402



3/16"

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

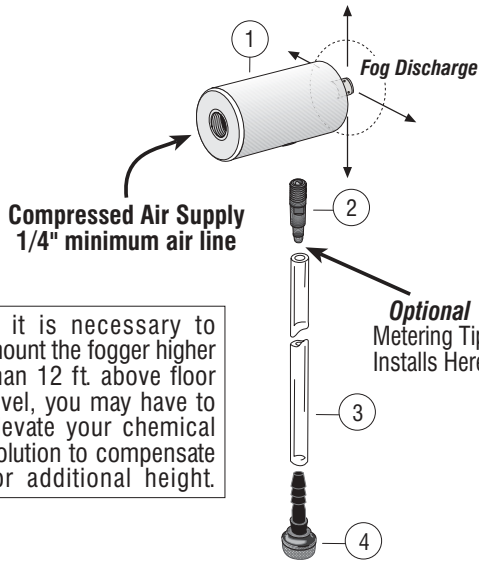
TROUBLESHOOTING GUIDE

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

1. **Not enough air pressure** – Increase the air pressure.
2. **Too much air pressure** – Decrease the air pressure.
3. **Airline too small** – Airline must meet minimum I.D. and CFM requirements. See diagram and Fogger CFM chart.
4. **Fogger mounted too high (431 Only)** – Elevate your chemical solution to compensate for the additional height (12' maximum). If you must mount the fogger above 12' high, consult Lafferty Equipment Mfg.
5. **Pin hole or cut in chemical tube** – Replace chemical tube.
6. **Chemical tube kinked or not immersed in chemical** – Straighten or immerse chemical tube.
7. **Metering tip or metering tip holder clogged** – Clean or replace metering tip and/or metering tip holder.
8. **Debris clogging air inlet(s) of fogger** – Disconnect air supply and visually inspect; remove debris from fogger inlet(s).
9. **Too much moisture in airline** – Install a condensate separator.
10. **Drawing too much solution** – Install metering tip.

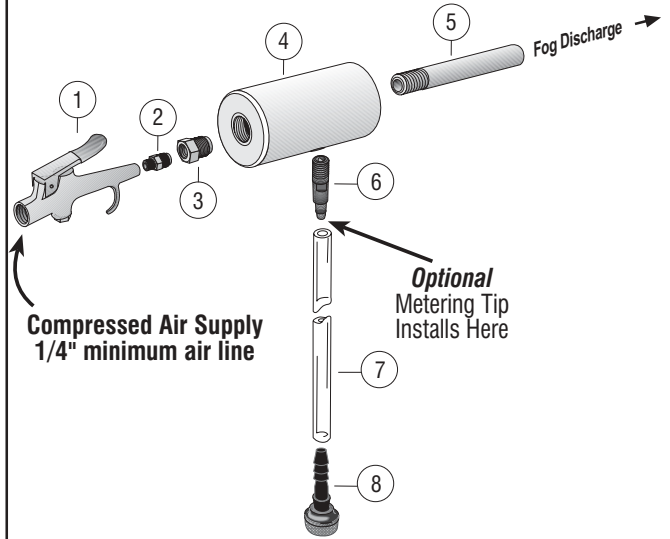
431 MINIATURE 4-WAY FOGGER



If it is necessary to mount the fogger higher than 12 ft. above floor level, you may have to elevate your chemical solution to compensate for additional height.

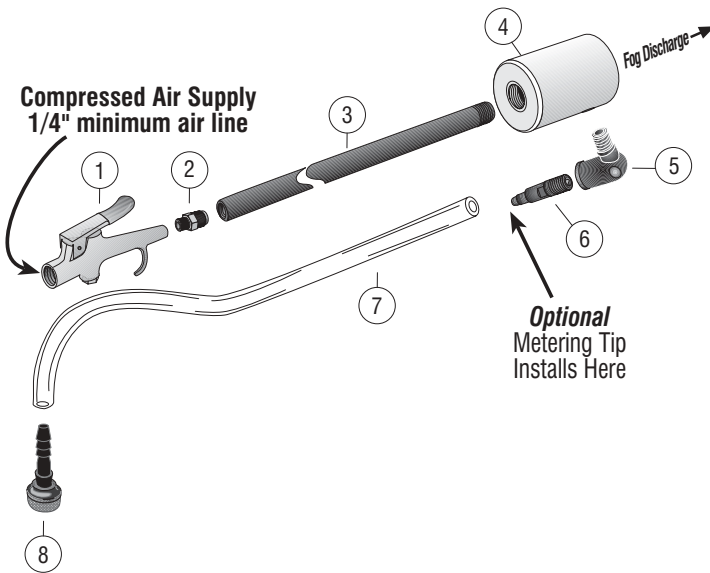
CALL #	QTY.	PART #	DESCRIPTION
1	1	214431	FOGGER BODY, PP, 4-WAY 431 (MINI)
2	1	491308	METERING TIP HOLDER
3	1	473006	TUBE, CHEMICAL, 1/4" x 6"
4	1	150115	STRAINER, CHEMICAL, HASTELLOY, 1/4"

394 BLAST FOGGER



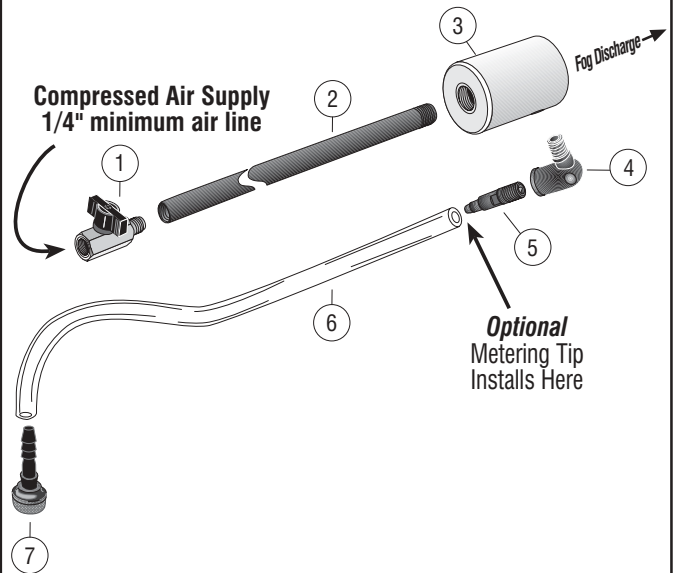
CALL #	QTY.	PART #	DESCRIPTION
1	1	320502	GUN, AIR FOGGER (THUMB)
2	1	429695	NIPPLE, REDUCING, NPB, 1/4" x 1/8"
3	1	305216	BUSHING, NPB, 3/8" x 1/4"
4	1	214394	FOGGER BODY, PP, BLAST 394
5	1	492914	NIPPLE, TOE, SS, 1/4" x 6"
6	1	491308	METERING TIP HOLDER
7	1	473006	TUBE, CHEMICAL, 1/4" x 6"
8	1	150115	STRAINER, CHEMICAL, HASTELLOY, 1/4"

534 THUMB GUN FOGGER



CALL #	QTY.	PART #	DESCRIPTION
1	1	320502	GUN, AIR FOGGER (THUMB)
2	1	429695	NIPPLE, REDUCING, NPB, 1/4" x 1/8"
3	1	536609	WAND, PP, 28", 3/8" MPT x 1/4" FPT
4	1	214534	FOGGER BODY, PP, 534
5	1	257379	ELBOW, ST., PP, 1/4"
6	1	491308	METERING TIP HOLDER
7	1	473006	TUBE, CHEMICAL, 1/4" x 6"
8	1	150115	STRAINER, CHEMICAL, HASTELLOY, 1/4"

534 FOGGER



CALL #	QTY.	PART #	DESCRIPTION
1	1	413605	BALL VALVE, 1/4" FMB
2	1	536609	WAND, PP, 28", 3/8" MPT x 1/4" FPT
3	1	214534	FOGGER BODY, PP, 534
4	1	257379	ELBOW, ST., PP, 1/4"
5	1	491308	METERING TIP HOLDER
6	1	473006	TUBE, CHEMICAL, 1/4" x 6"
7	1	150115	STRAINER, CHEMICAL, HASTELLOY, 1/4"

FOGGER AIR CFM CHART

534 FOGGER

431 FOGGER

394 FOGGER

COMPRESSED AIR FLOW IN CFM

60 PSI	80 PSI	100 PSI
3.4	4.5	5.0

60 PSI	80 PSI	100 PSI
5.6	7.4	9.0

60 PSI	80 PSI	100 PSI
10.0	13.0	15.0

CHEMICAL SOLUTION DRAW RATE CHART

The numbers below represent the **average ounces of chemical solution per minute** that each fogger will draw.

534 FOGGER

431 FOGGER

394 FOGGER

FOGGER 12' ABOVE CHEMICAL

N/A (Hand Held)

60 PSI	80 PSI	100 PSI
2.4	1.8	1.2

N/A (Hand Held)

FOGGER 10' ABOVE CHEMICAL

N/A (Hand Held)

60 PSI	80 PSI	100 PSI
2.5	2.1	1.5

N/A (Hand Held)

FOGGER 80" ABOVE CHEMICAL

N/A (Hand Held)

60 PSI	80 PSI	100 PSI
7.9	9.9	10.8

N/A (Hand Held)

FOGGER 65" ABOVE CHEMICAL

N/A (Hand Held)

60 PSI	80 PSI	100 PSI
3.5	2.8	2.0

N/A (Hand Held)

FOGGER HAND HELD

60 PSI	80 PSI	100 PSI
19.3	16.4	15.3

N/A (Not Hand Held)

60 PSI	80 PSI	100 PSI
32.4	32.0	30.5

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

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