7 Foggers and Fogging Systems

- Foggers
- Fogger Controllers
- Portable Foggers
- Pump Fed Foggers
- Central Chemical Feed Systems



Lafferty®
EQUIPMENT MANUFACTURING INC.

CATALOG 7

Foggers and Fogging Systems

Chemical Application Equipment

www.LaffertyEquipment.com
5614 Oak Grove Road • North Little Rock, AR 72118
Phone: 800-999-2820 / 501-851-2820 • Fax Orders: 800-699-3719

Lafferty Foggers and Fogging Systems for Disinfection, Sanitation and Odor Control

Supporting The Food Safety and Virus Prevention Missions

For years the impetus to maintain sanitary production areas, machinery and equipment rested mainly within the realm of food safety and preventing pathogenic food contamination. With the advent of the COVID-19 virus pandemic, preventing spread of the virus became a critical consideration for all businesses and institutions, both to protect their workers and stop the spread, generally. To support both missions, Lafferty offers a comprehensive array of foggers and fogging systems ranging from simple hose-end mist sprayers for targeted applications by hand to complete central systems with multiple foggers mounted in place that cover large areas with precise, programmed application intervals.

Lafferty builds quality into every fogger and fogging system – from the precision machining of our fogger bodies, to the careful selection of heavy-duty components, to the individual testing of every unit. This keeps Lafferty Equipment products working better and longer than any other brand. Once you experience Lafferty quality and performance, you will know that no other brand can be "just like a Lafferty".

Fogger Applications: Disinfection and Infection Prevention

Lafferty Foggers are being used in numerous environments to apply disinfectants approved for use against the Corona Virus and other infectious organisms. The suitability for fogging and the application parameters of any chemical are determined by the manufacturer, the Environmental Protection Agency (EPA) and/or other governing authorities. Follow all safety precautions indicated by the chemical product's safety data sheet. Even when a chemical is deemed safe for fogging/misting, we recommend use of a respiratory mask to prevent discomfort from inhalation of chemical mist.

For disinfecting and disease prevention, Lafferty Foggers are currently in use in medical facilities, police and fire stations, churches, schools, athletic venues and training facilities, among others. Virtually any liquid chemical can be atomized by a Lafferty fogger and applied as a wet, damp, or dry mist into the air or onto surfaces. The relative "dampness" or "dryness" of the fog/mist will depend on the fogger model, the air volume, the chemical metering tip used, and environmental factors. Our customer service team can assist you in selecting the fogger equipment that best suits your application requirements.

Fogger Applications: Food Safety and Odor Control

Sanitizing

- Food & Beverage Plants
- Brew Cellars
- Conveyors
- Food Service Facilities
- Restaurants
- Food Preparation Areas
- Food Holding Containers
- Food Transportation Containers / Vehicles

Spot Cleaning

- Sanitation and cleaning of cooler coils and other hard to reach areas

Spiral Freezers

Smokehouse Cleaning

Applying Degreasers

- Cookers
- Equipment

Applying Insecticides

- Loading Docks
- Under Buildings

Odor Control / Deodorizing

- Rendering Plants
- Elevator Shafts
- Air Ducts
- Trash Chutes
- Sewer Treatment
- Sewage Lift / Transfer Stations
- Lagoons
- Landfills
- Compost Facilities
- Barns
- Animal Rearing Facilities
- Air Scrubbers
- Kennels
- Warehouses
- Restaurants

Other Applications

Sanitizing
- Hospitals
- Schools / Day Cares
- Veterinary Clinics
- Animal Rearing Facilities

Dust Control
- Asbestos Abatement
- Coal Handling Stations
- Gravel Pits
- Mining Operations

Evaporative Cooling
- Barns
- Animal Rearing Facilities

Humidifying
- Greenhouses
- Printing Machines
- Plant Preparation Rooms
- Bakery Ovens

Plant Feeding / Watering

Degreaser Application
- Vehicle Engines / Parts
- Equipment
- Walkways / Work Surfaces

Lubricating
- Stamping Presses
- Shackles
- Equipment
- Engine Parts

Rust Inhibitor Application

Concrete Finishing

Fungus & Mildew Control

Applying Insecticides
- Warehouses
- Kennels
- Stables
- Barns
- Chicken Houses
- Loading Docks
- Under Buildings

Lafferty Venturi Fogger Series Overview

Venturi Foggers use compressed air and venturi action to draw ready-to-use chemical solution from a container into the air stream and project the chemical as a mist into the air to cover exposed surfaces, even in hard-to-reach areas.

Each fogger series has its own
- Compressed air CFM requirement
- Fog projection distance - based on air CFM
- Fog wetness level - based on the Lafferty fogger model, air CFM, and air pressure
- Fog/mist can be adjusted
- Included metering tips reduce chemical usage for "drier" output;
- An optional needle valve can reduce air flow for increased dampness of output.

612 Foggers
- Small, "damp" particles
- Project mist up to 6' each way
- Low air CFM requirement suited for COVID-19 disinfecting and other retail, school, commercial and institutional applications
- Available as Compact and Stationary models

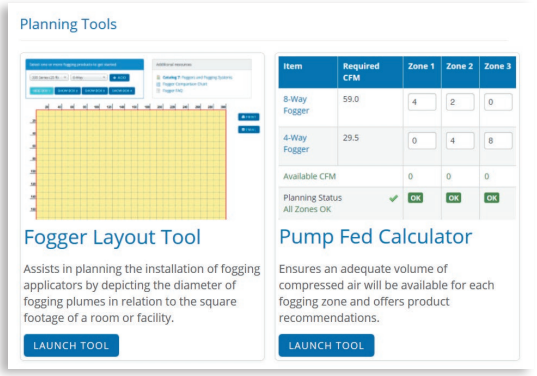
633 Foggers
- Small to medium size "damp" particles
- Project mist up to 15' each way
- Available as Compact, Stationary, Portable, and Mount-in-Place models
- Also available with Pump Fed Systems

305 Foggers
- Small to medium size "damp" particles
- Project mist up to 25' each way
- Available as Compact, Stationary, Portable, Specialty, and Mount-in-Place models
- Also available with Pump Fed Systems

455 Foggers
- Fine, "dry" output
- Project mist up to 35' each way
- Available as Compact, Stationary, Portable, Specialty, and Mount-in-Place models
- Also available with Pump Fed Systems



Large Area Fogging — Product and Planning Details, p. 11



COMPACT FOGGERS — *Hose-End Damp Mist Sprayers That Use Compressed Air And Venturi Action*

REQUIRED: COMPRESSED AIR @ 60 TO 100 PSI, READY-TO-USE CHEMICAL SOLUTION

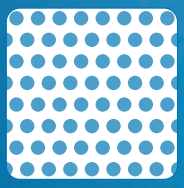
- **Hose-end Compact Foggers make it easy to apply chemicals in small and hard-to-reach areas, where fixed location foggers are impractical or not desired. Use for spot coverage up close or saturation coverage of a larger area.**

FEATURES

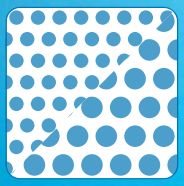
- **Draw pre-diluted chemical from the attached bottle and project small to medium size "damp" particles or fine, "dry" particles, depending on the model, the air volume and metering tip used.**
- **Wide-mouth, lightweight 32 oz. bottle: Reduces wrist and arm fatigue and the risk of repetitive strain injuries**
- **Lid color options for color coding *(blue standard — optional: red, yellow, green)***
- **Metering tips refine fog particle size**
- **Easy to use! — Fill the bottle, connect compressed air and press the thumb gun activator or open a ball valve**
- **Industrial-strength materials and quality construction ensure that these units will stand up to tough conditions**

INCLUDED

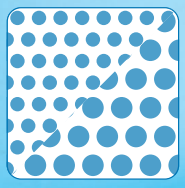
- **Thumb gun (or butterfly ball valve – 950001-BBV)**
- **32 oz. bottle**
- **Machined polypropylene fogger body incorporated with bottle lid**
- **Chemical suction tube**
- **Color-coded metering tips (20)**



*Small, "damp" particles**



*Small to medium, "damp" particles**



*Small to medium, "damp" particles**

612 COMPACT FOGGER REQUIREMENTS / SPECIFICATIONS

Ready-to-use chemical solution

Minimum Air Supply Line	**3/8"**	**9.5 mm**
Compressed Air @	***90 PSI***	***6.2 bar***
	1.2 cfm	33.9 lpm

Featuring a skimpy air requirement, the 612 Compact Fogger can operate with smaller, consumer-grade air compressors, including some rechargeable battery-operated compressors.



Consumer-grade or Select Rechargeable Battery-Operated Compressor

633 COMPACT FOGGER REQUIREMENTS / SPECIFICATIONS

Ready-to-use chemical solution

Minimum Air Supply Line	**3/8"**	**9.5 mm**
Compressed Air @	***80 PSI***	***5.5 bar***
	3.7 cfm	104.8 lpm

305 COMPACT FOGGER REQUIREMENTS / SPECIFICATIONS

Ready-to-use chemical solution

Minimum Air Supply Line	**3/8"**	**9.5 mm**
Compressed Air @	***80 PSI***	***5.5 bar***
	7.4 cfm	209.5 lpm

Ball Valve-controlled foggers are ideal for sustained operation without thumb fatigue.



*Particle illustrations are representative and for comparison purposes only and do not precisely convey actual particle size of the fog/mist/vapor.

To Draw Chemical Solution From An Attached Bottle And Project It Into the Air Or Onto Surfaces

SANITIZE WITH FOG / MIST

- SPOT DISINFECT / SANITIZE WITH SHORT BLASTS OF FOG
- FILL THE AIR FOR FULL COVERAGE OF EXPOSED SURFACES



Model #	Description
950000-B	612 Low Volume Compact Fogger
950001-B	633 Compact Fogger
950001-BBV	633 Compact Fogger with Ball Valve
950101-B	305 Compact Fogger

COLOR LIDS OPTIONS

Blue (Standard), Red, Green, Yellow

HAND HELD AND SPECIALTY FOGGERS

REQUIRES: COMPRESSED AIR @ 60 TO 80 PSI (4.1 TO 5.5 BAR), READY-TO-USE CHEMICAL SOLUTION

- Venturi action – no moving parts
- As compressed air passes through the venturi fogger body, ready-to-use (RTU) chemical solution is atomized.
- The fogger will draw chemical up to 12 ft. vertically above chemical container / tank.

Foggers Features:

- Machined fogger body (polypropylene / CPVC / stainless steel)
- Chemical solution pick up tubing and strainer
- Optional metering tips provide additional control over particle size.



950601SS — 394SS Blast Fogger

Includes chemical tubes and strainer and polypropylene jug lid threaded to fit 1 3/4" Delta Cap openings.

Metal can not included.



950600 — 394 Blast Fogger

394 BLAST FOGGERS *(Photos shown below)*

- Thumb gun
- Delivers a strong blast of chemical
- Suitable for applications like degreasing, spot sanitizing or cleaning small areas.

(Photos are not to scale, compared to other items on the page.)

Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950600	394 Blast Fogger	13.0	368.1
950601SS	394SS Blast Fogger	13.0	368.1



950400



950411

534 FOGGERS *(Photos shown above, right)*

- Produces a heavy, "wet" fog
- 28" flexible extension
- High volume pickup capability

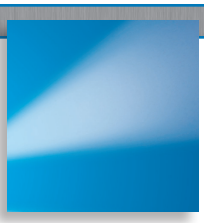
Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950400	534 Fogger	4.5	127.4
950411	534 Thumb Gun Fogger	4.5	127.4

2-WAY STAINLESS STEEL TANK FOGGER

- Fogger fits through a three inch diameter tank opening
- For use in dairies, cheese, factories, baby food plants in pressurized cooking vessels and bulk milk and protein carriers



Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950144SS	305SS 2-Way Tank Fogger with SS Cap	14.8	419.0
950143	305PP 2-Way Tank Fogger with SS Cap	14.8	419.0



THE LAFFERTY PORTABLE PRECISION FOGGER features an on-board 120V air compressor that provides the required air volume to operate. It draws pre-diluted chemical solution from a pail on the stainless steel cart and uses the stainless steel fogger body to atomize the chemical and project light, "damp" fog particles at distances up to 15 feet. Only an electrical connection is required. This fogger is used for disinfecting, sanitizing, insecticide application, odor control, humidification and other applications.

PORTABLE PRECISION FOGGER

REQUIRES: ELECTRICITY - 120V, READY-TO-USE CHEMICAL SOLUTION

- The Portable Precision Fogger is a self-contained fogging system, complete with a small, very quiet, onboard 120V air compressor.
- We fine-tuned our Precision Fogger body for optimum performance with the operating parameters of this 2.0 HP compressor with 2.6-gallon tank.
- Requires only an electrical connection — does not need a separate compressed air supply
- Venturi action – no moving parts in the fogger
- As compressed air passes through the fogger body, ready-to-use (RTU) chemical solution is atomized.
- Projects light, "damp" fog up to 15 feet
- Precision metering tips (10) to refine the particle size
- Stainless steel construction ensures durability and years of outstanding performance

Includes:

- Stainless steel, 4-wheel cart assembly with hose rack
- Non-marking tires with front, stainless steel swivel casters
- 120V air compressor
- 50' twin-line air/chemical hose with activation ball valves
- Machined stainless steel Precision Fogger body
- Stainless steel metering tip holder



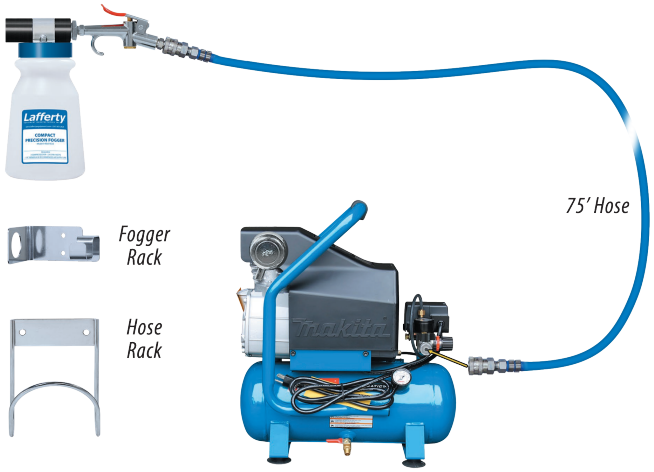
Compact Precision Fogger with Compressor Kit

- This is the Precision Fogger set up for use where a portable cart is not practical or cannot travel due to stairs, narrow walkways, barriers, etc.
- Comes with everything needed for fogging without a cart. Simply quick connect components and plug in the compressor.*

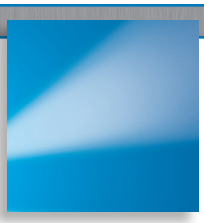
Includes:

- Compact Precision Fogger
  - Draws pre-diluted chemical from the attached bottle
  - Wide-mouth, lightweight 32 oz. bottle
  - Lid color options for color coding (blue standard — optional: red, yellow, green)
  - Thumb gun (air gun with thumb trigger)
  - Metering tips (5) to refine fog particle size
- Compressor – 2.0 HP, 2.6-gallon tank (same as with 950730)
- Compressor Air Ball Valve to allow safe removal of air hose for storage when compressor tank is full
- 75' air hose (1/4" ID) with QD fittings on both ends for connecting to compressor and the compact fogger
- Quick Disconnect Fittings for Compact Fogger and compressor to accept the air hose fittings

Model #	Description
950730	Portable Precision Fogger
950735	Compact Precision Fogger with Compressor Kit



*Compressor motor requires 30 minutes run time in idle mode prior to first use. See included compressor instructions.



LAFFERTY VENTURI 4-WAY FOGGERS provide great versatility for adapting to different application situations. Four fogger bodies connect to a single hub that receives compressed air from a single source. Two fogger bodies are equipped with ball valves that allow converting the fogger to 2-way or 3-way operation to better conform to the configuration of the space being fogged.

4-Way Foggers are offered as Portable and as Stationary models. Portable models feature stainless steel carts that hold either a 5-gallon rack for a user supplied chemical pail or a factory-mounted, 20-gallon chemical tank. Stationary models can be permanently mounted to a suitable surface or simply set on a flat surface during fogging applications then manually moved to another location.

PORTABLE 4-WAY FOGGERS

REQUIRES: COMPRESSED AIR @ 60 - 100 PSI, READY-TO-USE CHEMICAL SOLUTION

- Venturi action – no moving parts
- As compressed air passes through the venturi fogger body, ready-to-use (RTU) chemical solution is pulled into the air stream and atomized.
- Two fogger bodies equipped with ball valves for conversion to two-way fogging of narrow areas or three-way fogging of irregular shaped areas.
- Timed delay model features a delay operation timer (up to 6 hours) and fogging timer of up to 60 minutes.

633 4-Way Fogger

- Small to medium size "damp" particles
- Project fog up to 15 feet each way
- Compressed air requirement: 15 CFM @ 80 PSI

305 4-Way Fogger

- Small to medium size "damp" particles
- Project fog up to 25 feet each way
- Compressed air requirement: 29.5 CFM @ 80 PSI

455 4-Way Fogger

- Fine, "dry" particles
- Project fog up to 35 feet each way
- Compressed air requirement: 70 CFM @ 80 PSI

Includes

5 Gallon models

- 2-wheel stainless steel cart holds user-supplied chemical pail

20 Gallon model

- 4-wheel stainless steel cart with 20-gallon polyethylene tank

Foggers Features:

- Machined polypropylene fogger bodies
- Chemical solution pick up tubing and strainer
- Optional metering tips provide additional control over particle size.





Model #	Description
633 FOGGER — *Small to medium particles*	
950700	Portable 5 Gallon 633 4-Way Fogger
305 FOGGERS — *Light, "damp mist" particles*	
950701	Portable 5 Gallon 305 4-Way Fogger
950721	Portable 20 Gallon 305 4-Way Fogger
950721-TD	Portable 20 Gallon 305 4-Way Fogger with Timed Delay
455 FOGGERS — *Fine, "dry" particles*	
950702	Portable 5 Gallon 455 4-Way Fogger
950722	Portable 20 Gallon 455 4-Way Fogger
950722-TD	Portable Timed / Delay 20 Gallon 455 4-Way Fogger

STATIONARY 4-WAY FOGGERS

REQUIRES: COMPRESSED AIR @ 60 TO 100 PSI, READY-TO-USE CHEMICAL SOLUTION

- Fogger hub is mounted on a polypropylene plate with standoffs for resting the unit on a flat surface
- Can be permanently mounted or moved from location to location.
- Venturi action – no moving parts
- As compressed air passes through the venturi fogger body, ready-to-use (RTU) chemical solution is drawn into the air stream and atomized.
- The foggers will draw chemical up to 12 feet vertically above the chemical container or tank
- Two fogger bodies are equipped with shut-off ball valves for conversion to two-way fogging of narrow areas
- Each fogger body is equipped to accept an optional metering tip.

Stationary 633 4-Way Fogger

- Small to medium size "damp" particles
- Project fog up to 15 feet each way
- Compressed air requirement: 15 CFM @ 80 PSI

Stationary 305 4-Way Fogger

- Small to medium size "damp" particles
- Project fog up to 25 feet each way
- Compressed air requirement: 29.5 CFM @ 80 PSI

Stationary 455 4-Way Fogger

- Fine, "dry" particles
- Project fog up to 35 feet each way
- Compressed air requirement: 70 CFM @ 80 PSI

Features List — Stationary 4-Way Foggers:

- Four machined polypropylene fogger bodies
- Two chemical solution pick up tubes (10') and strainer
- Independent On-Off Ball Valves on two fogger bodies
- Stainless Steel fogger hub with stainless steel air connection fittings
- 1/2" NPT air inlet
- Polypropylene base plate (8" x 11") with four poly standoffs/feet
- Optional metering tips provide additional control over particle size.

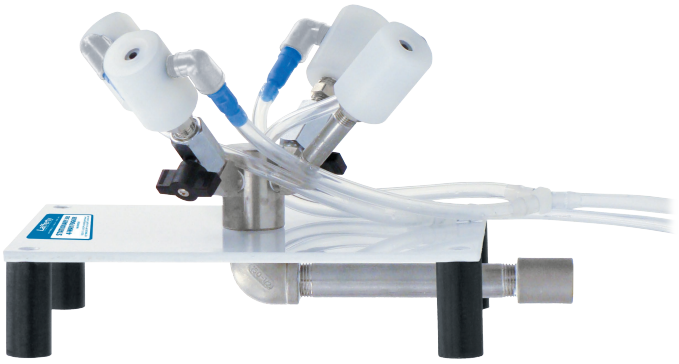
Stationary 612 Miniature 4-Way Fogger

This fogger's low CFM requirement allows it to be used with consumer-grade air compressors rated at 5 CFM or above. The low volume output is ideal for fogging small areas.

- Fine, "dry" particles
- Project fog up to 6 feet each way
- Compressed air requirement: 4.8 CFM @ 80 PSI

Features List — Stationary 612 Miniature 4-Way Fogger:

- Four miniature, machined polypropylene fogger bodies
- One chemical solution pick up tube (6') and strainer
- Stainless Steel fogger hub with stainless steel air connection fittings
- 3/8" NPT air inlet
- Polypropylene base plate (8" x 11") with four poly standoffs/feet





Above - Stationary 4-Way Fogger depicted in a standard, horizontal orientation as it would be when placed on a flat surface during use.

Left - Stationary Fogger oriented to show details of the fogger bodies

Model #	Description
950649	Stationary 633 4-Way Fogger
950651	Stationary 305 4-Way Fogger
950652	Stationary 455 4-Way Fogger
950648	Stationary 612 Miniature 4-Way Fogger



Stationary 612 Miniature 4-Way Fogger

LAFFERTY HIGH FLOW MIXING STATIONS

REQUIRES: 25-125 PSI WATER



- Lafferty Mixing Stations are water-driven venturi proportioners that accurately dilute chemical concentrates to required ratios and fill any size container with diluted, ready-to-use (RTU) chemical solution.
- Lafferty Mixing Stations eliminate the need for manual mixing, optimizing chemical utilization, employee safety and labor efficiency.
- **Push Lever Mixing Stations** require the user to push and hold the lever to dispense, preventing accidental overfilling of containers.
- **Ball Valve Mixing Stations** provide hands-free dispensing of chemical solutions.
- Choice of left or right side garden hose water inlet
- Mixing Stations can be plumbed in series *(Also available as 2-Way to 5-Way models with other flow rate options. See our web site or Catalog 9 online.)*
- Certified to ASSE Standard 1055 for backflow prevention

REQUIREMENTS / SPECIFICATIONS

Water Pressure	**25 - 125 PSI**	**1.7 - 8.6 bar**
Water Flow Rate	***@ 40 PSI***	***@ 2.8 bar***
High Flow (HF)	4.5 gpm	17.0 lpm

- ***When ordering, specify "High Flow" or "HF."***
- All mixing stations are built with EPDM check valves (Viton optional — specify at time of order)

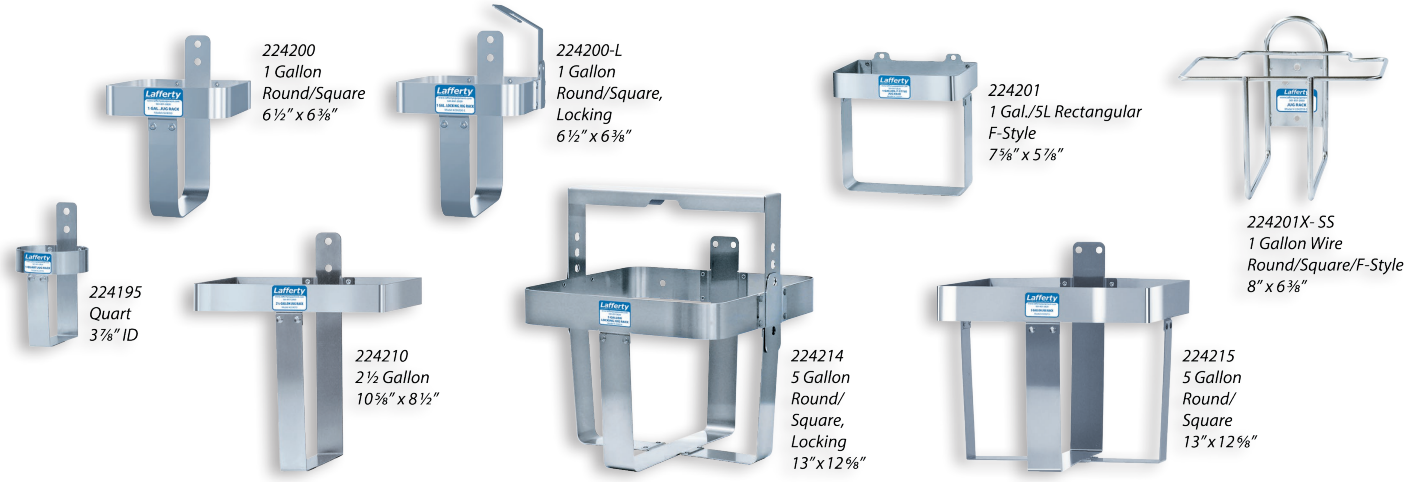
Model #	Description
981100	1-Way Push Lever Mixing Station *(High Flow)*
985100	1-Way Ball Valve Mixing Station *(High Flow)*

Includes

- Stainless steel mounting enclosure
- Integrated hose connection vacuum breakers
- Polypropylene injector bodies
- Color-coded metering tips (20)
- Metering tip driver

ASSE 1055

STAINLESS STEEL JUG RACKS



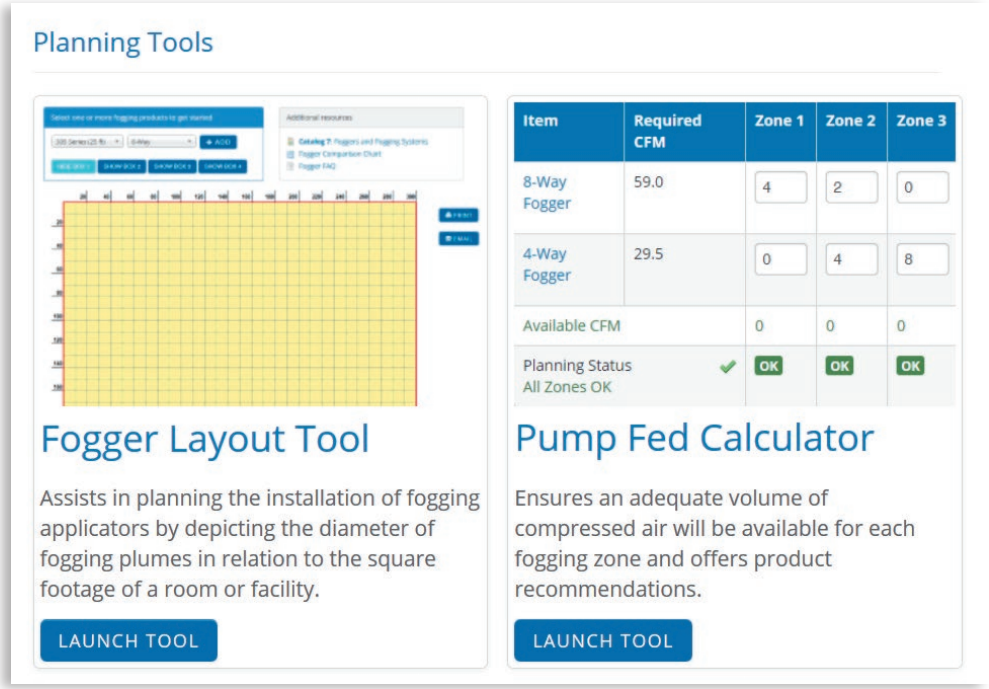
DIMENSIONS

Model #		Diameter or Width x Depth	
224195	Quart	3 7/8 in. ID	9.8 cm ID
224200	1 Gal. Round/Sq.	6 1/2 x 6 3/8 in.	16.5 x 16.2 cm
224200-L	1 Gal. Rnd./Sq., Locking	6 1/2 x 6 3/8 in.	16.5 x 16.2 cm
224201	1 Gal./5L R'tangle, F-Style	7 5/8 x 5 7/8 in.	19.4 x 14.9 cm
224201X-SS	1 Gal. Wire, Rnd./Sq./F	8 x 6 3/8 in.	22.9 x 22.9 cm
224210	2½ Gal.	10 5/8 x 8 ½ in.	27.0 x 21.6 cm
224214	5 Gal. Rnd./Sq., Locking	13 x 12 6/8 in.	33.0 x 32.4 cm
224215	5 Gal. Rnd./Sq.	13 x 12 6/8 in.	33.0 x 32.4 cm

Model #	Description
224195	Jug Rack, SS, 1 Quart
224200	Jug Rack, SS, 1 Gallon Round/Square
224200-L	Jug Rack, SS, 1 Gallon Round/Square, Locking
224201	Jug Rack, SS, 1 Gallon/5 Litre Rectangular, F-Style
224201X-SS	Jug Rack, 1 Gallon SS Wire (Round/Square/F-Style)
224210	Jug Rack, SS, 2 1/2 Gallon
224214	Jug Rack, SS, 5 Gallon Round/Square, Locking
224215	Jug Rack, SS, 5 Gallon Round/Square

Fogger Installation Planning for Large Areas

The Lafferty Fogging Systems Planning Guide assists in the planning of fogging systems for large areas. The Fogger Layout Tool helps you select the right fogger model and how many foggers you need for complete coverage. For Pump Fed Fogging Systems, the Pump Fed Fogger Calculator computes the volume of compressed air required for each fogging zone and offers product recommendations for safe, efficient fogging. On the web, visit ***www.laffertyequipment.com/tools/fogger-planning/***



Two Types of Foggers for Large Areas

STANDARD VENTURI FOGGERS

Lafferty Standard Venturi Foggers draw ready-to-use chemical solution from a nearby container. Standard Venturi Foggers are the core of our entire line of fogging equipment. Compare compressed air requirements, fog consistency, and effective range on page 12 or in our online Fogger Comparison Chart .

Venturi Foggers have simple setup and operation and can be equipped with electronic controllers. (See controller details on page 13.)

PUMP FED FOGGERS

Pump Fed Foggers receive ready-to-use chemical solution from a Central Chemical Feed System. Air and chemical solution flow can be activated manually or activated in multiple zones using Vision Fogger Controllers.

Pump Fed Foggers require pumping systems, piping and other components. (Details start on page 14.)

LAFFERTY MOUNT-IN-PLACE VENTURI FOGGERS are typically used for sanitation in food and beverage facilities and for odor control in food waste processing areas. Numerous other applications exist and more are developing as the advantages of fogging become more widely known. *(See page 3.)*

Powered solely by compressed air, Lafferty Foggers atomize chemical solution and project the mist in up to eight directions. Lafferty Foggers produce dry to wet fog, depending on the model.

1-WAY, 2-WAY, 4-WAY AND 8-WAY FOGGERS

REQUIRES: COMPRESSED AIR @ 60 TO 80 PSI (4.1 TO 5.5 BAR), READY-TO-USE CHEMICAL SOLUTION

- Venturi action – no moving parts
- As compressed air passes through the venturi fogger body, ready-to-use (RTU) chemical solution is atomized.
- The fogger will draw chemical up to 12 ft. vertically above chemical container / tank.
- Choice of four fogger types with each providing a different fog density and fog projection capability

1-Way models

- Include shutoff ball valve — can be used as hand held fogger

2-Way models

- Project fog in opposite directions — good for narrow areas

4-Way and 8-Way models

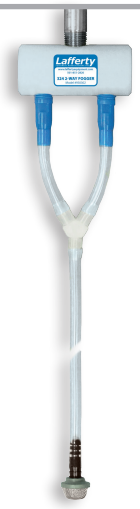
- Project fog in multiple directions — good for larger areas
- Chemical pick-up can be installed into top or bottom, expanding the options for mounting each unit

Foggers Feature:

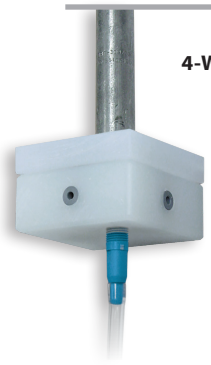
- Machined polypropylene fogger body
- Chemical solution pick up tubing and strainer
- Optional metering tips provide additional control over particle size.



1-Way



2-Way



4-Way



8-Way

633 FOGGERS

- Small to medium size "damp" particles
- Project fog up to 15 feet each way

Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950001	633 1-Way Fogger	3.7	104.8
950002	633 2-Way Fogger	7.5	212.4
950004	633 4-Way Fogger	15.0	424.8
950008	633 8-Way Fogger	30.0	849.5

305 FOGGERS

- Small to medium size "damp" particles
- Project fog up to 25 feet each way

Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950101	305 1-Way Fogger	7.4	209.5
950102	305 2-Way Fogger	14.8	419.0
950104	305 4-Way Fogger	29.5	835.3
950108	305 8-Way Fogger	59.0	1670.7

455 FOGGERS

- Fine, "dry" particles
- Project fog up to 35 feet each way

Model #	Description	Compressed Air Volume	
		CFM @ 80 PSI	LPM
950201	455 1-Way Fogger	17.5	495.5
950202	455 2-Way Fogger	35.0	991.1
950204	455 4-Way Fogger	70.0	1982.2
950208	455 8-Way Fogger	140.0	3964.4

ELECTRONIC FOGGER CONTROLLERS

REQUIRES: ELECTRICITY, COMPRESSED AIR @ 100 PSI



- Foggers can be activated either manually or electronically.
- Lafferty offers four types of electronic controllers for use with venturi foggers, ranging from simple, single cycle settings to highly flexible programmable settings with multiple options.
- Choice of two solenoid controlled air volume flow rates (CFM) for each type of controller.
- Controller choice will depend on the intended application and the volume of compressed air the selected foggers require for operation.

Fogger / Controller Matching:

- Select the type and number of foggers for the intended application
- Add up the total CFM required for the selected foggers
- The total CFM will determine what size solenoid is required: 1/2 inch for up to 180 CFM; 3/4 inch for 181 to 460 CFM
- Select the controller that matches the total CFM requirements and has the functionality required for the application

Solenoid Size	CV	Inlet / Outlet Air Pressure		Air Volume	
		PSI	BAR	CFM	LPM
1/2 inch	4.19	100 in / 80 out	6.9 in / 5.5 out	180	5100
3/4 inch	10.49	100 in / 80 out	6.9 in / 5.5 out	460	13025

Fogger Single Cycle Controller

- When activated, the controller starts fogger operation immediately and runs for a predetermined period of time — up to 2.84 hours — then switches off.

Model #	Description
950800	Fogger Single Cycle Controller – 180 CFM
950802	Fogger Single Cycle Controller – 460 CFM

Fogger Recycling Controller

- Controller can be programmed to run foggers for up to 6 hours and be off for up to 6 hours.
- Cycle will repeat until the unit is switched off or reprogrammed.

Model #	Description
950810	Fogger On/Off Recycling Controller – 180 CFM
950812	Fogger On/Off Recycling Controller – 460 CFM

Fogger Delayed Start, Single Cycle Controller

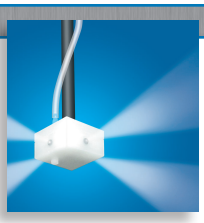
- Controller can be programmed to delay fogger start up for up to 6 hours after activation, fog for up to 60 minutes, and turn off.

Model #	Description
950820	Fogger Delayed Start, Single Cycle Controller – 180 CFM
950822	Fogger Delayed Start, Single Cycle Controller – 460 CFM

Fogger PLC Jazz Controller

- Allows variable settings for weekly, seasonal or holiday changes in hours of operation, peak and off-peak traffic demands.
- Features straightforward, menu-driven programming options
- Manual override for on and off cycles, without affecting the programming
- NEMA 4 rated Control Box
- PLC interface and manual override switch are IP 65 rated, for incidental over spray contact.

Model #	Description
950830	Fogger PLC Jazz Controller – 180 CFM
950832	Fogger PLC Jazz Controller – 460 CFM



LAFFERTY CENTRAL PUMP FED FOGGING SYSTEMS are designed for zone fogging, which allows independent control of fogging in multiple rooms and/or areas of a large room. A combination of 4-Way and 8-Way foggers can be operated within a zone. RTU chemical solution is fed to the foggers by a central chemical feed system.

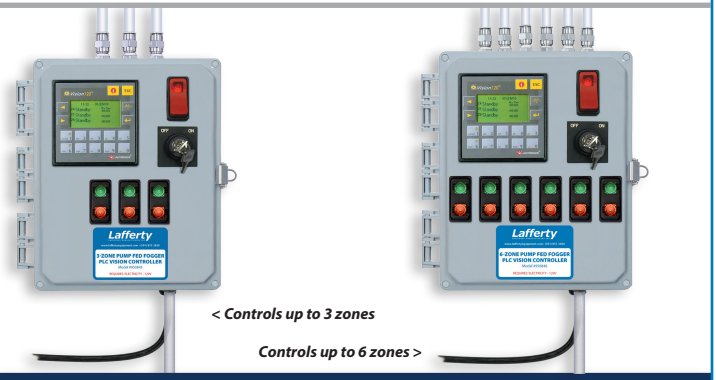
Lafferty Pump Fed PLC Vision Controllers provide highly flexible programmable settings with multiple options for controlling each zone. Settings include those for the fogging start time, length of application, time delay between applications, days of week and days of month.

Controllers are offered for 3-Zone and 6-Zone configurations.

PUMP FED FOGGER PLC VISION CONTROLLERS

REQUIRES: ELECTRICITY, COMPRESSED AIR @ 100 PSI, 110V AC POWER

- Controls up to 3 or up to 6 satellite zones simultaneously
- Each fogging zone can include any combination of 4-Way and 8-Way 305 Pump Fed Foggers. The number of foggers that can be supported in each zone will depend on the capacity of the air compressor.
- Each zone can be programmed independently.



< Controls up to 3 zones

Controls up to 6 zones >

Model #	Description
950843	3-Zone PF Fogger PLC Vision Controller
950846	6-Zone PF Fogger PLC Vision Controller

With 300 cfm of compressed air available, each zone can contain up to four 8-Way 305 Pump Fed Foggers or the equivalent in any combination of 4-Way and 8-Way foggers.

FEATURES OF PLC VISION CONTROLLERS

- Allows variable settings for weekly or seasonal changes in hours of operation.
- Manual override for on and off cycles, without affecting the programming
- Features straightforward, menu-driven programming options
- Front panel setup with LCD status screen.
- Two levels of password protection – Administrator and User.
- Simple setup of normal facility operational hours – by day and times of day, on a weekly basis.
- Simple setup of Standard Cycle times – duration of fogging and time interval between applications.
- Optional setup of up to 16 Holidays - dates and times of shut-downs.
- PLC interface and manual override switch are IP 65 rated, for incidental over spray contact.
- NEMA 4 rated Control Box
- Also configured to accept an external 24 Volt sensor trigger from a remote PLC

PUMP FED FOGGERS

REQUIRES: COMPRESSED AIR @ 100 PSI, READY-TO-USE CHEMICAL FEED

- 4-Way Foggers can be customized at time of order to allow 2-way or 3-way fogging.
- 8-Way Foggers can be customized at time of order to allow 3-way fogging from corners of rooms.
- Other configurations available on request

633 4-Way Fogger

- Small to medium "damp" particles • Project fog up to 15 feet each way

305 4-Way Fogger

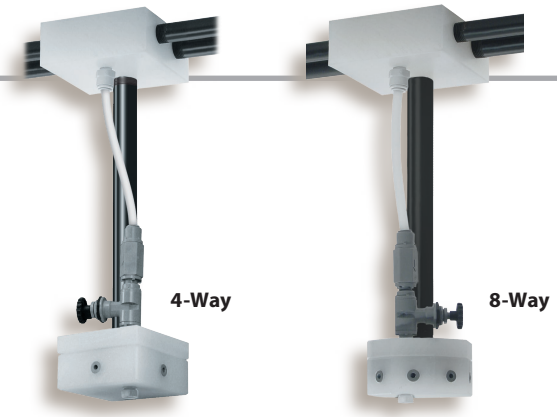
- Small to medium "damp" particles • Project fog up to 25 feet each way

COMPRESSED AIR REQUIREMENT:

633 4-Way Fogger	15.0 CFM @ 80 PSI
633 8-Way Fogger	30.0 CFM @ 80 PSI
305 4-Way Fogger	29.5 CFM @ 80 PSI
305 8-Way Fogger	59.0 CFM @ 80 PSI

Includes

- Machined polypropylene fogger body
- Solution needle valve to fine tune fog particle size
- Manifold for mounting multiple units in line
- Chemical check valve prevents drips after shutdown



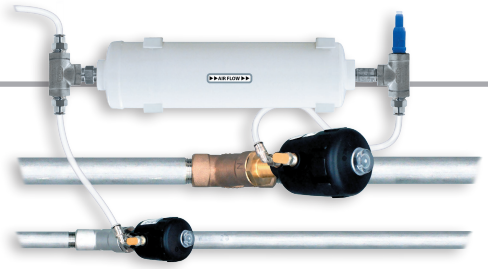
Model #	Description
950014	633 4-Way Pump Fed Fogger
950018	633 8-Way Pump Fed Fogger
950114	305 4-Way Pump Fed Fogger
950118	305 8-Way Pump Fed Fogger

PUMP FED FOGGER ZONE CONTROL KIT

- Zone Control Kits are used in conjunction with a PLC Vision Controller to operate pump fed foggers in multiple zones.
- Each zone of foggers requires a Zone Control Kit
- Air activated solenoids receive pilot compressed air from the controller to activate the flow of air and chemical solution to the foggers.
- On deactivation, a bleed tank assembly keeps the air line open momentarily to clear residual chemical solution from the fogger heads to prevent dripping.

Includes

- 1 inch Brass Air Activated Air Solenoid
- 1/2 inch Stainless Steel Air Activated Solution Solenoid
- Push lock fittings
- 1 inch and 1/2 inch polypropylene terminating plugs for last fogger in line.
- Bleed tank assembly



Model #	Description
950850	Pump Fed Fogger Air / Solution Zone Control Kit

See installation Illustration, page 13 ▼

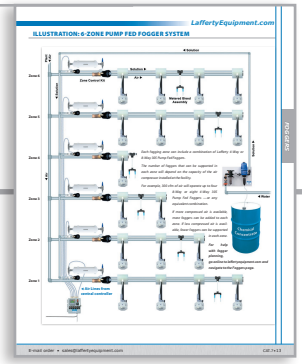
METERED BLEED ASSEMBLY

- When fogging with off-gassing chemicals, such as peracetic acid, each zone should be equipped with a metered bleed assembly.
- The metered bleed assembly relieves pressure in the solution line to ensure no chemical drips from the fogger after fogging has been completed
- *NOTE: The assembly should be installed "down stream" from the Zone Control Kit, and can be placed in a convenient position between the Zone Control Kit and any of the foggers heads on the line.*

  There will be a constant, slow drip while the foggers are activated so drainage will be a consideration when determining installation location.



Metered Bleed Assembly
(Not to scale with other items on page)



Model #	Description
950852	Pump Fed Fogger Metered Bleed Assembly



CENTRAL CHEMICAL FEED SYSTEMS FOR PUMP FED FOGGING SYSTEMS deliver RTU chemical solution through customer-installed piping to remotely located Lafferty Pump Fed Foggers.

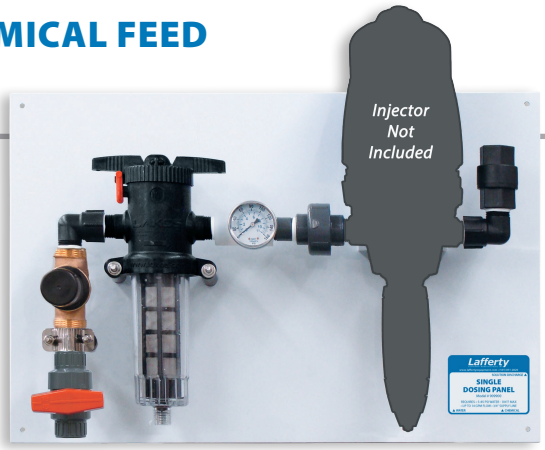
A water-driven proportional dispensing system dilutes chemical concentrates to required ratios and delivers the resulting RTU chemical solution to the foggers.

The FPS Fogger Chemical Feed System uses a compressed air-operated double diaphragm pump to draw ready-to-use solution from bulk containers and feed the solution to the foggers.

WATER DRIVEN PROPORTIONAL CENTRAL CHEMICAL FEED SYSTEM — ON DEMAND

REQUIRES: 40 TO 100 PSI WATER

- Water driven, non-electrical, proportional dispensing system dilutes chemical concentrates to required ratios and delivers RTU chemical solution to pump fed foggers
- Polypropylene or PVDF construction
- Complete system mounted on a panel, or within a lockable stainless steel enclosure, for convenience and ease of installation
- Choice of fully adjustable dilution ratio ranges, from 1:3000 to 1:50
- Choice of seals for chemical compatibility
- Kalrez seals available for Peracetic Acid



Model #	Description
909900	Single Dosing Panel (Injector Sold Separately)
Proportioning Pumps for the Dosatron Single Panel	
Up to 14 Gallons/Minute	
D14MZ2VFII	14 GPM dispenser, 1:500 to 1:50
D14MZ3000VFII	14 GPM dispenser, 1:3000 to 1:300

FPS FOGGER CHEMICAL FEED SYSTEM

REQUIRES: UP TO 4 CFM COMPRESSED AIR

- Driven entirely by compressed air
- Quick, easy set up — All system components mounted on a single, polypropylene mounting panel
- Pump mounted on a unique Lafferty quick-release, stainless steel bracket
- Discharge hose stabilizer coupling protects pump discharge outlet from abuse.

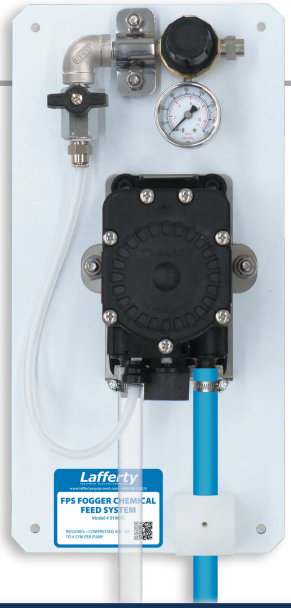
REQUIREMENTS / SPECIFICATIONS

Compressed Air up to 4 cfm

Output Flow Rate up to 4.5 gpm @ 60 PSI air

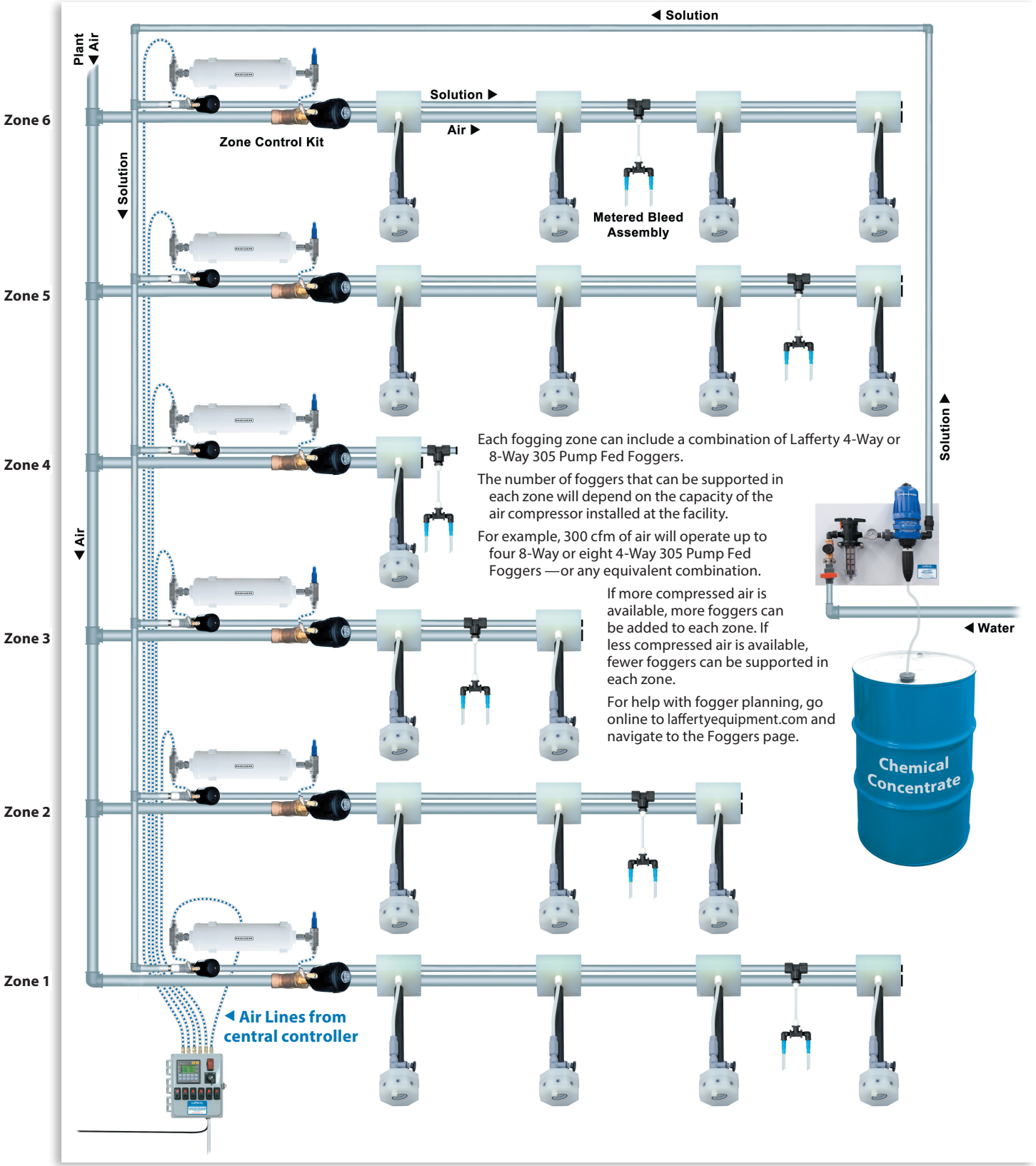
Includes:

- Polypropylene mounting panel
- Air regulator and air gauge
- Polypropylene air pump with Santoprene diaphragm (Viton optional)
- 15 ft. suction tube
- 10 ft. discharge hose



Model #	Description
919045	FPS Fogger Chemical Feed System

ILLUSTRATION: 6-ZONE PUMP FED FOGGER SYSTEM



Each fogging zone can include a combination of Lafferty 4-Way or 8-Way 305 Pump Fed Foggers.

The number of foggers that can be supported in each zone will depend on the capacity of the air compressor installed at the facility.

For example, 300 cfm of air will operate up to four 8-Way or eight 4-Way 305 Pump Fed Foggers —or any equivalent combination.

If more compressed air is available, more foggers can be added to each zone. If less compressed air is available, fewer foggers can be supported in each zone.

For help with fogger planning, go online to laffertyequipment.com and navigate to the Foggers page.



CHEMICAL TANKS AND ACCESSORIES

Lafferty offers four sizes of tanks for use with Lafferty Chemical Management Systems or for auxiliary chemical storage.

All tanks are made of polyethylene for chemical resistance and material durability.

CHEMICAL/WATER TANKS



5 Gallon 20 Gallon 40 Gallon 60 Gallon

Model #	Description
709105	5-Gallon Pail (HDPE) with Pail Stick™
709105-SQ	5-Gallon Pail (HDPE), Square, with Pail Stick™
709106-LID	70mm Lid For 5 Gallon Pail (replacement)
709120	Tank, 20 Gallon, HDPE *(color options available)*
709140	Tank, 40 Gallon, HDPE
709160	Tank, 60 Gallon, HDPE

Contact us for details.

CHEMICAL DISPENSING ACCESSORIES:

SAFE FLOW™ JUG OR PAIL LIDS AND PAIL STICKS

- Safe and Convenient — Prevents splashing, reduces odor, and allows for quick replacement of chemical concentrate.
- All models shown include a hose barb that attaches directly to any ¼" suction tube of a Lafferty chemical applicator or dispenser.
- **Jug / Pail Lids:** Machined polypropylene lids threaded to fit 1 gallon jugs and the pull-up spout of many 5 gallon pails.

  Jug Lid includes 1' of suction tubing. (Model 709101-R fits Rieke FLEXSPOUT® closures.) **Slip Stick** includes a sliding Jug Lid and fits containers up to 21" deep.
- **Pail Sticks:** Polypropylene sticks with sliding collars, threaded to fit ¾" container lid knockouts.

  Model 709105 includes a 16" Pail Stick and 5 gallon pail with lid.



 # 709101 (various models) 1 Gallon Safe Flow Lid w/ Flexible Tube & Strainer



 # 491610 - 5 Gallon Safe Flow Lid w/ Rigid Tube & Strainer



 # 709105 - 5 Gallon Pail with Suction Stem



Safe Flow Pail Sticks
 # 491617 - 16" (above, left)
 # 491622 - 21" (above, right)



Viton or EPDM

LAFFERTY DRUM STICKS™ AND TOTE STICKS™ are chemical pick-up assemblies for use with pump-operated or venturi systems to draw chemical concentrates or diluted chemical solution directly from a drum, tote or holding tank.

Choice of seal material for optimum chemical resistance.

Choice of lengths with custom lengths available.

DRUM STICK / TOTE STICK

- Chemical/acid resistant polypropylene construction
- Connects to chemical pick-up tubes fitted to any venturi applicator or chemical pumping system
- Drum Bung Adaptor, machined to fit either coarse or fine-threaded bung holes, and Tote Stick Cover, for larger openings on totes and other bulk containers, keep trash out of chemical and allow easy depth adjustment of the Drum or Tote Stick.
- Rigid pipe overcomes problems common with flexible tubing
- Hastelloy strainer easily accessible for cleaning
- Choice of Viton or EPDM seals

SPECIFICATIONS

Polypropylene extension pipe

ID	3/4 in.	19.1 mm

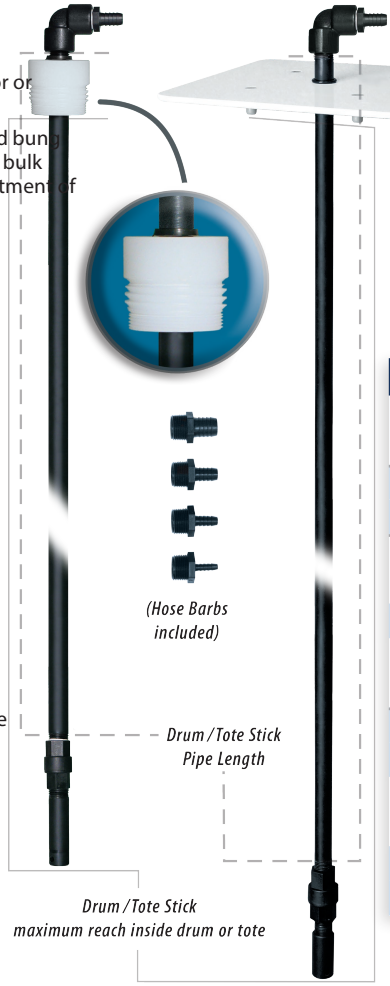
Lengths:	***Pipe Length***	***Inside Drum/Tote***
33" Drum Stick	33 in. / 0.83 m	35 in. / 0.89 m
48" Drum Stick	48 in. / 1.22 m	50 in. / 1.27 m
54" Drum Stick	54 in. / 1.37 m	56 in. / 1.42 m
33" Tote Stick	33 in. / 0.8 m	36 in. / 0.91 m
48" Tote Stick	48 in. / 1.22 m	51 in. / 1.29 m
54" Tote Stick	54 in. / 1.37 m	57 in. / 1.45 m

Includes

- Machined polypropylene Drum Bung Adaptor with coarse and fine threads or 11" x 11" polypropylene Tote Stick Cover
- Four polypropylene hose barbs:

1/4 in.	6.3 mm
3/8 in.	9.5 mm
1/2 in.	12.7 mm
3/4 in.	19.0 mm

- Polypropylene chemical check valve
- Hastelloy chemical strainer





****4-Way Drum Stick***
(can be used only with Mixing Stations or venturi units with check valve #491402 or #491401)

Model #	Description
491643	Drum Stick, 33" (Viton seals)
491643-E	Drum Stick, 33" (EPDM seals)
491644	4-Way Drum Stick, 33" (Viton seals)*
491644-E	4-Way Drum Stick, 33" (EPDM seals)*
491648	Drum Stick, 48" (Viton seals)
491648-E	Drum Stick, 48" (EPDM seals)
491649	4-Way Drum Stick, 48" (Viton seals)*
491645	Drum Stick, 54" (Viton seals)
491645-E	Drum Stick, 54" (EPDM seals)
491653	Tote Stick, 33" (Viton seals)
494653-E	Tote Stick, 33" (EPDM seals)
491654	Tote Stick, 48" (Viton seals)
491654-E	Tote Stick, 48" (EPDM seals)
491656	Tote Stick, 54" (Viton seals)
491656-E	Tote Stick, 54" (EPDM seals)

Custom lengths available on request

SAFE FLOW LIDS™ FOR 1 GALLON JUGS AND 5 GALLON PAILS

JUG LID WITH SUCTION TUBE:

- Machined polypropylene lid, threaded to fit 1 gallon jugs and the pull-up spout of many 5 gallon jugs
- Safe and Convenient — Prevents chemical splashing; Allows quick replacement of concentrate
- Incorporated barb attaches directly to suction tube of Lafferty Hose End Airless Sprayer or Foamer
- Includes attached suction tube



Model #	Description
709101	Safe Flow Lids™ for 1 Gallon Jugs and 5 Gallon Pails

LAFFERTY CATALOG SERIES

• Food & Beverage Processing • Pharmaceutical • Agriculture • General Industrial Applications



1 • Venturi Systems – City Water Pressure

2 • Venturi Systems – Boosted Pressure

3 • Venturi Systems – High Pressure

4 • Compressed Air Operated Systems

5 • Pump Fed Sanitizers, Foamers & Hose Drop Stations

6 • Entryway, Drain & Hand Sanitizing Systems

7 • Foggers and Fogging Systems

Special Applications

8 • Asphalt Release, Acid / Corrosive & Solvent Systems

9 • Chemical Management Systems

10 • Vehicle Wash & Detailing Systems

11 • JanSan / Commercial / Residential Systems

12 • Supermarket / Deli / Small Area Cleaning Systems



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