

4 Compressed Air Operated Systems

- AODD Pump Powered
- Pre-Dilute Foamers / Sprayers
- Venturi Foamers
- Precision Foamers
- Teat Foamers
- Pressurized Tank Applicators
- Pre-Dilute Foamers / Sprayers



CATALOG 4

**Compressed Air Operated
Foamer and Sprayer Systems**



**COLOR
TANKS
OPTIONS**

**COLOR
HOSES
OPTIONS**

*Color options available for any
20 Gallon portable model*

**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

Compressed Air Operated Systems

Production and Environmental Sanitation Equipment

Perfect Expectations in an Imperfect World

Regulations, public expectations and competitive pressures require business and industry to maintain clean production areas, machinery and equipment. In today's world, a bacterial or pathogenic food contamination scare can panic people or cripple industries half a world away. However, water capacity or infrastructure is sometimes inadequate for the stringent demands on production and environmental sanitation.

For facilities with various types of water limitations, Lafferty has successfully applied nearly 40 years of chemical application experience to designing compressed air operated systems for a wide range of application requirements, from light to heavy duty and for jobs large or small.

Lafferty builds quality into every piece of chemical application equipment – from the precision machining of our foamer and sprayer 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.

When perfection is your mission, Lafferty's quality and performance provide you with the best tools available for achieving your cleaning and sanitation expectations.

Lafferty's Complete Balanced System Approach to Compressed Air Operated Systems

All Lafferty products are designed with specific applications in mind, resulting in the careful selection of materials and components to match the equipment's intended use, in a cost-effective manner.

In facilities, or areas within a facility, where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi foamers and sprayers, an alternative method for applying foam and sanitizer is required.

This "Complete Balanced System Approach" is the basis for offering our compressed air operated foamer and sprayer systems in both "RTU Chemical Solution" and "Water Driven Venturi" configurations, along with a choice of two air operated double diaphragm pumps and the pump-free option of tank foamers and sprayers.

The choice of system will depend on the intended application and how heavily the system is likely to be used.

CONNECTIVITY

See more details on page 17.

Lafferty Compressed Air Operated Systems

Flojet ¼" Air Pump Operated Systems

The Flojet's specially designed shuttle valve, check valves and high performance capabilities have been combined to produce a "value-priced" small, light duty pump.

Pump Features include:

- Santoprene diaphragm
- Viton and Kalrez diaphragm upgrades available
- Easy pump replacement via quick disconnect port fittings and the Lafferty quick release stainless steel mounting bracket.

Systems:

Liberty Sprayers	5
Liberty Foamers 6 Liberty Venturi Foamers	11
Precision Foamers	14-15
Teat Foamers	16-18

Sandpiper ½" Air Pump Operated Systems

This pump provides the extra volume required for quick foam coverage of larger areas.

Pump Features include:

- Teflon diaphragm upgrade available
- All-bolted design
- Pump can be rebuilt

Systems:

Freedom 2.4 Sprayers	7
Freedom 2.5 Foamers	8
Freedom XV Foamers	9
Freedom Sanitize/Foam Hose Drop Station	12

Sandpiper 1" Air Pump Operated Systems

This pump provides significantly more foam volume and achieves extra foam throw distances required when tackling very large foaming jobs.

Pump Features include:

- Teflon or Santoprene diaphragm (depending on model)
- Heavy-duty metallic, all-bolted design
- All stainless steel wetted components
- Pump can be rebuilt

Systems:

Freedom Super XV	10
Freedom Portable SS XVMV Foamer	10

Compressed Air (Only) Operated Systems: Tank Foamers and Sprayers

Compressed air is used to pressurize RTU solution or water in a pressure rated stainless steel tank. No air pump. No moving parts. Virtually maintenance free.

RTU chemical solution is pressurized in the tank and either is forced through a foamer body to create foam that is projected through the foam wand and nozzle or is projected through a spray wand and nozzle as a fan pattern spray.

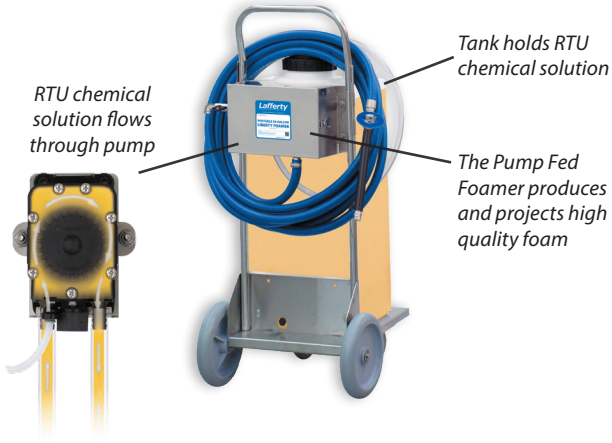
Systems Information:

PD (Pre-Dilute) Tank Foamers and PD Tank Sprayers	13
--	----

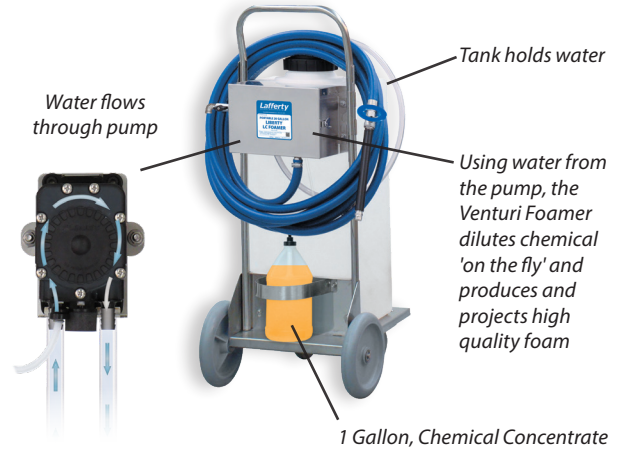
Air Pump Operated Portables — The Choice is Yours



PRE-DILUTE



VENTURI



Overview

- Chemical concentrate is diluted with water using a proportioning system or by manual mixing.
- The pre-diluted (ready-to-use — RTU) chemical solution is dispensed into the portable tank or is stored in a holding tank then transferred to the portable.
- An AODD pump draws RTU solution from the holding tank, through the pump, and pressurizes the chemical solution to 25 to 125 PSI.
- Using the solution pressure supplied by the pump, a pump fed chemical applicator — foamer or sprayer — projects the chemical solution onto surfaces as foam or spray.

Other Details

- **Operating time between RTU solution refills:** 15 to 33 minutes (*per 20 gallons of solution*), depending on applicator model
- **Refill process:** Return unit to the designated central dispensing location and refill tank with RTU chemical solution
- **Change to different chemical:**
 - Remove all chemical solution from tank and thoroughly rinse inside of tank with clean water, then run water through the system to remove chemical residue from tubes, pump and discharge hose.
 - Refill tank with RTU chemical solution from central dispensing location

Perceived Advantages

- Concentrated chemical confined to central control area
- Dilution ratios controlled by dilution system that dispenses RTU solution

Overview

- An AODD pump draws water from a holding tank and pushes the water through the pump, pressurizing the water to 25 to 125 PSI.
- Using the water pressure supplied by the pump, a venturi chemical applicator — foamer or sprayer — draws chemical concentrate from a container and mixes it with the water flow and projects the diluted chemical onto surfaces as foam or spray.

Other Details

- **Operating time between refills:**
 - Water: 15 to 33 minutes (*per 20 gallons of water, depending on applicator model*)
 - Chemical: (*per 1 gallon of concentrate, depending on metering tip*)
Example: Corn Yellow tip (45:1) = 33 minutes
Example: Brown tip (306:1) = 3.75 hours (228.5 minutes)
- **Refill process:**
 - Water: Refill from nearest clean water outlet.
 - Chemical: Disconnect 1 gallon jug from chemical suction tube and replace with filled jug, connecting chemical suction tube to the suction barb incorporated into the jug lid (#709101).
- **Change to different chemical:**
 - Disconnect 1 gallon jug from chemical suction tube
 - Place suction tube in clean water to flush old chemical out of foamer/ sprayer and discharge hose.
 - Connect new chemical jug to suction tube

Perceived Advantages

- Concentrated chemical confined to one gallon, closed containers
- Pumps last longer because only water flows through pump
- Refills take little time and refills can be made at or closer to work area
- Flexibility: Chemicals and/or metering tips can be changed easily, allowing one portable unit to be used for different chemical applications

[See page 11](#)

PRE-DILUTE



Flojet Pump

1/4" AODD
Santoprene Diaphragm
Viton or Kalrez Optional

LAFFERTY LIBERTY SPRAYERS are powered by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi sprayers.

A Flojet air pump draws and pressurizes a ready-to-use chemical solution, and is mounted on a unique Lafferty quick release, stainless steel mounting bracket inside a stainless steel enclosure.

Portable models feature all stainless steel carts with non-marking wheels and replaceable polyethylene tanks. Models with four wheels include two stainless steel swivel casters.

LIBERTY SPRAYERS

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

Liberty Sprayers project a uniform, fan-patterned spray for quick coverage of any surface with little waste.

RTU chemical solution flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.

- Include two fan nozzles that are used to control the usage of the chemical solution
- May also be used as a transfer system (remove nozzle)

SPECIFICATIONS

Spraying Time based on nozzle used 16 or 28 minutes
(per 20 Gallons of RTU chemical)

Discharge Hose Length 50ft 15.2m



940119



940120



940126



Model #	Description
940005	Liberty Sprayer
940119*	Portable 2-Wheel 20 Gallon Liberty Sprayer
940120*	Portable 20 Gallon Liberty Sprayer
940126	Portable 60 Gallon Liberty Sprayer
OPTIONS	
710756	Viton Diaphragm Upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump

*20 Gallon Liberty Sprayers & Liberty Foamers are available with color-coded 20-gallon tanks and hoses in five standard color combinations.

AIR OPERATED

PRE-DILUTE



Flojet Pump

1/4" AODD
Santoprene Diaphragm
Viton or Kalrez Optional

LAFFERTY LIBERTY FOAMERS are powered by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi foamers.

A Flojet air pump draws and pressurizes a ready-to-use chemical solution, and is mounted on a unique Lafferty quick release, stainless steel mounting bracket inside a stainless steel enclosure.

Portable models feature all stainless steel carts with non-marking tires and replaceable polyethylene tanks. Models with four wheels include two stainless steel swivel casters.

LIBERTY FOAMERS

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

Liberty Foamers create and project a usable amount of foam onto any surface with little waste.

- RTU chemical solution flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.
- Offered with the choice of three flow rates –Standard Flow, Low Flow (LF) or the higher flow 2.0 model.
- Fan nozzle for quick coverage
- Upgrade wand to stainless steel at time of order. Request item # 536603-X.



SPECIFICATIONS AND REQUIREMENTS

Foaming Time	(per 20 Gallons of RTU chemical)	
Liberty Foamers	16 minutes	
Liberty LF Foamers	33 minutes	
Liberty 2.0 Foamers	10 minutes	

Usable Foam Throw		
Liberty Foamers	12ft	3.7 m
Liberty LF Foamers	9ft	2.7 m
Liberty 2.0 Foamers	15 ft	4.6 m

Discharge Hose Length		
Wall Mount	50ft	15.2m
Portables	40ft	12.2m

▼ **RECOMMENDED OPTION** - Fills a 20 gallon tank in 2 minutes!

High Volume Mixing Station • Model # 985835

- The High Volume Mixing Station is a 9.9 GPM @ 40 PSI chemical proportioner for accurately diluting a chemical concentrate and quickly filling large containers with ready-to-use chemical solution.
- Minimizes downtime to refill tanks.
- Eliminates manual mixing and optimizes chemical utilization, employee safety and labor efficiency
- Ball valve activation allows for hands-free dispensing
- 10' discharge hose and color-coded metering tips to set dilution ratios



COLOR TANKS OPTIONS

COLOR HOSES OPTIONS

538245 Drain Foamer Attachment – for all Liberty or Freedom Foamer models. Includes an additional wand assembly for use when sanitizing drains. Also includes quick disconnects to allow easy exchanging of the drain foamer wand and the standard wand.

Model #	Description
941106	Liberty Foamer
941219	Portable 2-Wheel 20 Gallon Liberty Foamer
941220	Portable 20 Gallon Liberty Foamer
941222	Portable 2-Wheel 20 Gallon Liberty 2.0 Foamer
941286	Portable 60 Gallon Liberty Foamer

Model #	Description
941106-LF	Liberty LF Foamer
941219-LF*	Portable 2-Wheel 20 Gallon Liberty LF Foamer
941220-LF*	Portable 20 Gallon Liberty LF Foamer
941286-LF	Portable 60 Gallon Liberty LF Foamer

OPTIONS

Model #	Description
710756	Viton Diaphragm Upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump

PRE-DILUTE



Sandpiper Pump

1/2" AODD
Santoprene Diaphragm
Teflon Optional

LAFFERTY FREEDOM 2.4 SPRAYERS are powered by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi applicators.

A mid-sized 1/2" Sandpiper air pump, mounted inside a lockable stainless steel enclosure, is used to draw and pressurize a ready-to-use chemical solution to produce a greater volume of spray compared to sprayers that rely on smaller 1/4" AODD pumps.

Portable Freedom 2.4 Sprayers come mounted with a replaceable, polyethylene tank on an all stainless steel cart with non-marking wheels and two stainless steel swivel casters. All models include a stainless steel spray wand and two spray nozzles for two different spray volumes.

FREEDOM 2.4 SPRAYERS

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

Freedom 2.4 Sprayers offer higher volume than Liberty Sprayers, projecting a low or medium flow fan pattern, depending on the nozzle used.

- RTU chemical solution flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.
- Includes two fan nozzles that are used to control the usage of the chemical solution
- May also be used as a transfer system (remove nozzle)
- The Sandpiper pump holds up to heavy duty use better than smaller 1/4" AODD pumps

SPECIFICATIONS

Spraying Time (per 20 Gallons of RTU chemical)

Based on nozzle used:

1 hose	6.5 or 10 minutes
2 hoses in use (942136)	3.25 or 5 minutes

Discharge Hose Length	50 ft	15.2 m
------------------------------	-------	--------

▼ **RECOMMENDED OPTION** - Fills a 20 gallon tank in 2 minutes!

High Volume Mixing Station • Model # 985835

- The High Volume Mixing Station is a 9.9 GPM @ 40 PSI chemical proportioner for accurately diluting a chemical concentrate and quickly filling large containers with ready-to-use chemical solution.
- Minimizes downtime to refill tanks.
- Eliminates manual mixing and optimizes chemical utilization, employee safety and labor efficiency
- Ball valve activation allows for hands-free dispensing
- 10' discharge hose and color-coded metering tips to set dilution ratios



942124



942126



Dual Hose Portable 60 Gallon Freedom 2.4 / 2.4 Sprayer

- Dual hose setup allows use by two users.
- Hoses can be used separately or simultaneously
- Each hose assembly includes a trigger gun, stainless steel wand and two fan nozzles



942136

AIR OPERATED

Model #	Description
942124	Portable 40 Gallon Freedom 2.4 Sprayer
942126	Portable 60 Gallon Freedom 2.4 Sprayer
942136	Portable 60 Gallon Freedom 2.4 / 2.4 Sprayer
OPTIONS	
710919	Teflon Diaphragm Upgrade for 1/2" Air Pump

PRE-DILUTE



Sandpiper Pump

1/2" AODD
Santoprene Diaphragm
Teflon Optional

LAFFERTY FREEDOM 2.5 FOAMERS are powered by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi foamers.

A mid-sized 1/2" Sandpiper air pump, mounted inside a lockable stainless steel enclosure, is used to draw and pressurize a ready-to-use chemical solution to produce a greater volume of foam compared to foamers that rely on smaller 1/4" AODD pumps.

Portable models feature all stainless steel carts, non-marking tires and replaceable polyethylene tanks. Four wheel carts include two stainless steel swivel casters. All include stainless steel foam applicator wands.

FREEDOM 2.5 FOAMERS

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

Freedom Foamers offer greater foam throw distances and higher volume than Liberty Foamers, creating and projecting a medium amount of quality foam onto any surface.

- RTU chemical solution flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.

SPECIFICATIONS

Foaming Time	8 minutes <i>(per 20 Gallons of RTU chemical)</i>	
	<i>*4 minutes per hose when both hoses are used on dual hose units.</i>	
Usable Foam Throw	15 ft	4.6 m
Coverage Rate	500 ft ² (46.5 m ²)	1 minute
Discharge Hose Length		
Wall Mount	50 ft	15.2 m
Portables	40 ft	12.2 m

Dual Hose Freedom 2.5 / 2.5 Foamers

- Dual hose setup allows use by two users.
- Hoses can be used separately or simultaneously
- Available as wall mount (943634) or 60-gallon portable (943636)
- Both hose assemblies include stainless steel ball valves, stainless steel foam wands and fan nozzles



Drain Foamer Attachment
— includes an additional wand assembly for use when sanitizing drains. Also includes quick disconnects to allow easy exchanging of the drain foamer wand and the standard wand.

Model #	Description
943606	Freedom 2.5 Foamer
943620	Portable 20 Gallon Freedom 2.5 Foamer
943624	Portable 40 Gallon Freedom 2.5 Foamer
943626	Portable 60 Gallon Freedom 2.5 Foamer
943634	Freedom 2.5 / 2.5 Foamer
943636	Portable 60 Gallon Freedom 2.5 / 2.5 Foamer

OPTIONS

710919	Teflon Diaphragm Upgrade for 1/2" Air Pump
538245	Drain Foamer Attachment (Freedom and Liberty)



* Available with color-coded 20-gallon tanks and hoses.

PRE-DILUTE



Sandpiper Pump

1/2" AODD
Santoprene Diaphragm
Teflon Optional

LAFFERTY FREEDOM XV (EXTRA VOLUME) FOAMERS are powered by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi foamers and sprayers.

A midsize 1/2" Sandpiper air pump, mounted inside a lockable stainless steel enclosure, is used to draw and pressurize a ready-to-use chemical solution.

Portable models feature all stainless steel carts, non-marking tires, two stainless steel swivel casters and replaceable polyethylene tanks. All models include a stainless steel foam applicator wand.

FREEDOM XV FOAMERS

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

Freedom XV Foamers offer even greater foam throw distances and higher volume than Freedom Foamers, creating and projecting a large amount of quality foam onto any surface.

- RTU chemical solution flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running, repetitively, at maximum capacity.
- Zero degree nozzle for maximum foam throw distance
- Stainless steel foam applicator wand for extra durability

SPECIFICATIONS

Foaming Time	15 minutes <i>(per 60 Gallons of RTU chemical)</i>	
Usable Foam Throw	with fan / 0° nozzle	15 / 20 ft 4.6 / 6.1 m
Coverage Rate	500 ft ² (46.5 m ²)	1 minute
Discharge Hose Length		
Wall Mount	50 ft	15.2 m
Portables	40 ft	12.2 m

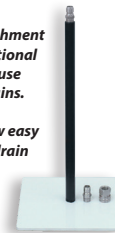


944105



944184

Drain Foamer Attachment
— includes an additional wand assembly for use when sanitizing drains. Also includes quick disconnects to allow easy exchanging of the drain foamer wand and the standard wand.

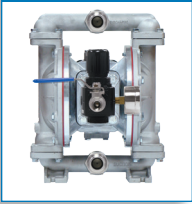


944186

Model #	Description
944105	Freedom XV Foamer
944184	Portable 40 Gallon Freedom XV Foamer
944186	Portable 60 Gallon Freedom XV Foamer
OPTIONS	
710919	Teflon Diaphragm Upgrade for 1/2" Air Pump
538250	Drain Foamer Attachment (XV and HV)

AIR OPERATED

PRE-DILUTE



Sandpiper Pump

1" Metallic AODD

LAFFERTY AIR POWERED, EXTRA HIGH VOLUME FOAMERS produce an incredible volume of rich clinging foam and feature a heavy-duty, metallic 1" air pump with stainless steel wetted components. Depending on the model configuration, the pump draws pre-diluted chemical from a holding tank or draws water and chemical concentrate from static tanks, with chemical dilution controlled by ball valves that regulate the flow of chemical and water.

Designed for facilities with low or fluctuating water pressure, these systems are powered completely by compressed air. Compressed air is also injected into the solution to greatly increase foam volume and coverage ability.

- The chemical flow rate is regulated by the foamer body to match the mid-range of the air pump's specified operating range, which protects the pump from running repetitively at maximum capacity
- AODD Pump
 - Heavy-duty metallic pump
 - All stainless steel wetted components
 - Santoprene / Teflon diaphragms options (see model details)

- Outstanding foam output
- Projects an extra-high volume of rich, clinging foam which increases chemical contact time and effectiveness
- Covers up to 500 sq ft (46.5 sq m) in 40 seconds
- Up to 40' foam throw
- Adjustable foam consistency (wet/dry)

FREEDOM SUPER XV FOAMER

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

- Draws pre-diluted chemical

SPECIFICATIONS

Usable Foam Throw	40 ft	12.2 m
Coverage Rate	500 ft ² (46.5 m ²)	40 seconds
Discharge Hose		
ID		
944108	1.5 in	38.1 mm
944201 / 944203	1 in	25.4 mm
Length	100 ft	30.48 m

Includes

- Stainless steel pump shelf
- Air inlet ball valve and regulators
- 1" metallic AODD pump with Santoprene diaphragms
- Machined polypropylene pump-fed foamer body
- Discharge hose (100') with stainless steel Super HV foam nozzle



Model #	Description
944108	Freedom Super XV Foamer
710943	Teflon Diaphragm Upgrade for 1" SS Air Pump

PORTABLE SS XVMV FOAMER

REQUIRES: COMPRESSED AIR AND EITHER READY-TO-USE CHEMICAL SOLUTION OR STATIC TANK OF WATER AND CHEMICAL CONCENTRATE

- 944201 draws pre-diluted (RTU) chemical from a holding tank via one suction tube.
- 944203 can draw pre-diluted chemical using one suction tube or it can draw chemical concentrate through one tube and water through a second tube, using ball valves to regulate the flow of each to adjust the dilution level.

SPECIFICATIONS (SEE ABOVE)

Includes

- All stainless steel 4-wheel cart with integrated hose rack
- Non-marking tires
- Two stainless steel swivel casters
- Air inlet ball valve and regulator/filter
- 1" metallic AODD pump with Teflon diaphragms
- Machined polypropylene pump-fed foamer body
- Discharge hose with stainless steel ball valve, stainless steel foam wand and XV foam nozzle



944203

Model #	Description
944201	Portable SS PD XVMV Foamer
944203	Portable SS XVMV Foamer

VENTURI



LAFFERTY AIR POWERED VENTURI LC FOAMERS are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for conventional venturi foamers and sprayers.

An AODD air pump, mounted inside a lockable stainless steel enclosure, is used to draw water from a tank and provide the water pressure required to drive the venturi foamer or sanitizer. No chemical passes through the air pump and no pre-dilution of chemical is required. Twenty metering tips accurately dilute chemical concentrates to required ratios. Tanks do not require rinsing when changing between chemicals.

Liberty models feature a 1/4" Flojet pump for moderate duty. Portable model features all stainless steel cart and replaceable polyethylene tanks with color options.

VENTURI LIBERTY LC FOAMERS

REQUIRES: COMPRESSED AIR, CHEMICAL CONCENTRATE, WATER

Air Powered Venturi Liberty LC or Freedom LC Foamers create and project a usable amount of foam onto any surface with little waste.

- Water is pumped through a venturi, which regulates the flow and draws and dilutes concentrated chemical.
- Adjustable foam consistency (wet/dry)
- Water flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.
- Fan nozzle for quick coverage

SPECIFICATIONS/REQUIREMENTS

LIBERTY LC FOAMER

Foaming Time	16 minutes (per 20 Gallons of water)	
Usable Foam Throw	12 ft	3.7 m
Coverage Rate	500 ft ² (46.5 m ²): 2½ minutes	
Discharge Hose Length	40 ft	12.2 m



Model #	Description
941307	Liberty LC Foamer
941387*	Portable 20 Gallon Liberty LC Foamer



Upgrade Option for foamers listed this page: Stainless Steel Wand upgrade when ordering with unit. Request item # 536603-X.



** Available with color-coded 20-gallon tanks and hoses.*

AIR OPERATED

VENTURI



LAFFERTY AIR POWERED VENTURI LC FOAMERS HOSE DROP STATIONS are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for conventional venturi foamers and sprayers.

An AODD air pump, mounted inside a lockable stainless steel enclosure, is used to draw water from a tank and provide the water pressure required to drive the venturi foamer or sanitizer. No chemical passes through the air pump and no pre-dilution of chemical is required. Twenty metering tips accurately dilute chemical concentrates to required ratios. Tanks do not require rinsing when changing between chemicals.

The *Freedom* Hose Drop Station features a 1/2" ARO pump, suitable for heavy duty and higher flow rates required for no-rinse sanitizers.

FREEDOM 315 SANITIZE / LC FOAM HOSE DROP STATION

REQUIRES: COMPRESSED AIR, CHEMICAL CONCENTRATE, WATER

Air Powered Venturi Liberty LC or Freedom LC Foamers create and project a usable amount of foam onto any surface with little waste.

- Water is pumped through a venturi, which regulates the flow and draws and dilutes concentrated chemical.
- Adjustable foam consistency (wet/dry)
- Water flow is regulated to match the mid-range of the air pump's specified operating range, protecting the pump from running repetitively at maximum capacity.
- Fan nozzle for quick coverage

Freedom 315 Sanitize / LC Foam Hose Drop Station

- The Freedom Sanitize / Foam Hose Drop Station will apply one chemical as foam and another as a sanitizing spray.
- Dilutes concentrated sanitizers to the lean ratios required for no-rinse applications in food plants

Two Configuration Options

- Accepts incoming water pressure from 20 to 60 PSI then regulates and maintains the pressure for consistent output
- Adaptable to draw static water from supply tank

SPECIFICATIONS / REQUIREMENTS

FREEDOM SANITIZE/FOAM HOSE DROP STATION

Compressed Air	up to 9 cfm	up to 255 lpm
Water Pressure	20-60 PSI	1.4-4.1 bar
	<i>(Or static water from tank)</i>	
Water Flow Rate	@ 40 PSI	@ 2.8 bar
Sanitize	4.5 gpm	17.0 lpm
Foam	1.5 gpm	5.7 lpm
Discharge Hose		
ID: Sanitize	1/2 in.	12.7 mm
Foam	3/4 in.	19.1 mm
Length	50 ft.	15.2 m



Model #	Description
943315	Freedom 315 Sanitize / LC Foam Hose Drop Station

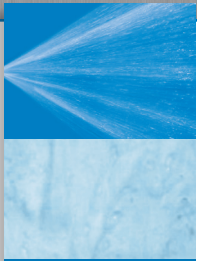
Upgrade Option for foamers listed this page:
Stainless Steel Wand upgrade when ordering with unit. Request item # 536603-X.



* Available with color-coded 20-gallon tanks and hoses.

Pre-Dilute Tank Foamers and Sprayers

Pre-diluted (RTU) chemical solution is held inside the ASME rated stainless steel tank and compressed air is used to provide the required solution pressure for creating and projecting rich clinging foam or a flat, fan-pattern spray for even coverage.



AIR POWERED

LAFFERTY INTERNAL TANK FOAMERS AND INTERNAL TANK SPRAYERS are powered solely by compressed air and are designed for use in facilities where plumbed water pressure is unavailable, unreliable or lower than the 35 PSI required for venturi foamers and sprayers. With no air pump or other moving parts, Lafferty Tank Foamers and Sprayers are virtually maintenance-free, providing unrivalled durability. All models feature all stainless steel carts with hinged stainless steel mounting enclosures and pressure relief pop-off valves.

Internal indicates that pre-diluted or ready-to-use (RTU) chemical solution is held inside the tank and compressed air is used to provide the required solution pressure for operation.

INTERNAL TANK FOAMERS AND INTERNAL TANK SPRAYERS

REQUIRE: COMPRESSED AIR PLUS READY-TO-USE CHEMICAL SOLUTION

- **Internal (Pre-Dilute) Tank Foamers and Sprayers** create and project a usable amount of foam, or spray, onto any surface, with little waste.
- Air pressure forces RTU chemical solution from the tank.
- Lafferty Mixing Stations can be used to fill the tanks with RTU chemical solution

Internal Tank Foamers

- Include a fan nozzle for quick coverage
- 16 and 37 Gallon Models are Standard Flow units
- 5 Gallon Model is a Low Flow unit for more controlled foaming/extended foaming time in smaller areas

Internal Tank Sprayers

- Include two fan nozzles with different flow rates, which are used to control the usage of the chemical solution

Operating Principles:

Connect compressed air to pressurize the stainless steel tank and to maintain fluid pressure during use. To refill tank as needed, turn off wand and air ball valves before relieving tank pressure and opening the tank.

Shown, left to right, 925905; 925916; 925937



Upgrade Option for foamers listed this page: Stainless Steel Wand upgrade when ordering with unit. Request item # 536603-X.

Model #	Foamer Description	Foaming Time per Tank Fill	Usable Foam Throw	Coverage Rate 500 ft ² (46.5 m ²)	Hose Length
925905	5 Gallon Internal Tank Foamer	10 minutes	9 ft / 2.7 m	4½ minutes	25 ft / 7.6 m
925916	16 Gallon Internal Tank Foamer	10 minutes	12 ft / 3.7 m	2½ minutes	40 ft / 12.2 m
925937	37.4 Gallon Internal Tank Foamer	23 minutes	12 ft / 3.7 m	2½ minutes	40 ft / 12.2 m

Model #	Sprayer Description	Spraying Time per Tank Fill (based on nozzle used)	Hose Length
925705	5 Gallon Internal Tank Sprayer	7 or 15 minutes	25 ft / 7.6 m
925716	16 Gallon Internal Tank Sprayer	22 or 47 minutes	25 ft / 7.6 m
925737	37.4 Gallon Internal Tank Sprayer	51 or 110 minutes	50 ft / 15.2 m

AIR OPERATED

PD/MT



Flojet Pump

1/4" AODD
Santoprene Diaphragm
Viton or Kalrez Optional

LAFFERTY PRECISION FOAMERS are powered by compressed air and apply high quality foam precisely where you want it.

A Flojet air pump powers the system, and is mounted on a unique Lafferty quick release, stainless steel bracket inside a stainless steel enclosure or on a polypropylene mounting plate.

These units can draw ready-to-use (RTU) chemical solution, or they can draw chemical concentrate and water, mixing the solution to the required ratio on the fly. Units designated as *PD (pre-dilute)* are designed for use only with RTU chemical solution.

The portable model draws RTU chemical solution and is a self-contained system, complete with an on-board 120V air compressor.

PRECISION AND LOCK BOX PRECISION FOAMERS

REQUIRES: COMPRESSED AIR, CHEMICAL CONCENTRATE, WATER

- Precision Foamers create and project a low volume of rich foam and are ideal for jobs where precision application and tight control of over spray are required.
- Low compressed air requirement — Can be operated with a small 120V compressor
- Adjustable foam consistency
- Consistent, efficient chemical control
- Can draw ready-to-use chemical solution or can draw chemical concentrate and water, mixing the solution to the required ratio on the fly

Includes

- Polypropylene mounting plate (935155) or stainless steel enclosure (935160)
- Air pump with Santoprene diaphragm (Optional Viton or Kalrez)
- Stainless steel Precision Foamer body
- Color-coded metering tips (20)
- Metering tip driver
- 50' discharge hose (25' twinline hose, 25' single hose)*
- Polypropylene trigger gun with 10" wand and stainless steel nozzle



Model #	Description
935155	Precision Foamer
935160	Lock Box Precision Foamer

OPTIONS	
710756	Viton Diaphragm upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump
800100FT*	Hose, Twinline, Blue/Blue, 1/4" x 1/2" x 1' (By Foot)

**Longer twinline hose may be ordered in increments of 25 ft., up to 300'*



PORTABLE PD - PRECISION FOAMER

REQUIRES: ELECTRICITY, READY-TO-USE CHEMICAL SOLUTION

- The Portable Precision Foamer is a self-contained foaming system, complete with a small, on-board 120V air compressor.
- Everything required to undertake a precision foaming job is mounted to the cart. Just plug the unit into an electrical supply and provide the chemical solution.
- Ideal for jobs where precision application and tight control of over spray are required
- Adjustable foam consistency
- Consistent, efficient chemical control
- Draws ready-to-use chemical solution from a user-supplied pail

Includes

- Stainless steel cart and enclosure
- Air compressor (120 volt)
- GFCI protected electrical connection
- Air pump with Santoprene diaphragm (Optional Viton)
- Stainless steel Precision Foamer body
- 50' discharge hose (25' twinline hose, 25' single hose)*
- Polypropylene trigger gun with 10" wand and stainless steel nozzle

**Longer twinline hose may be ordered in increments of 25 ft., up to 300'* ►



Model #	Description
935165	Portable PD Precision Foamer
935170	Portable 20 Gallon PD Precision Foamer
OPTIONS	
710756	Viton Diaphragm Upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump
800100FT*	Hose, Twinline, Blue/Blue, 1/4" x 1/2" x 1' (By Foot)

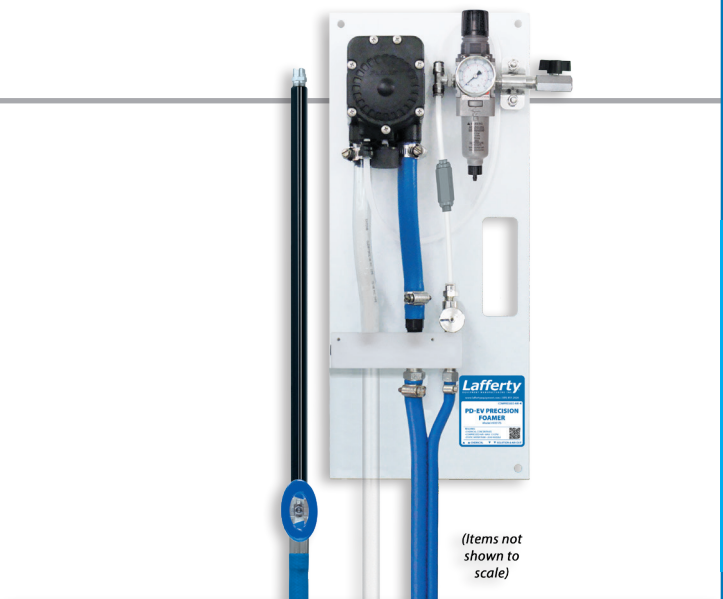
PD-EV PRECISION FOAMER

REQUIRES: COMPRESSED AIR, READY-TO-USE CHEMICAL SOLUTION

- The PD-EV Precision Foamer is a 2 GPM foam applicator that is ideal for jobs where long-range, precision foaming is required.
- Designed for long range, low/medium volume foam application
- Projects rich, clinging foam at distances of up to 25' using the zero degree nozzle
- Fan nozzle for quick and efficient coverage of closer objects
- Foaming expands the chemical and reduces over-application by providing visual assurance of coverage
- Draws 2 GPM of ready-to-use chemical solution from any user-supplied tank
- Adjustable foam consistency (wet/dry)
- Chemical resistant wetted components ensure durability and years of reliable service
- Can be equipped with up to 300' of twin-line hose

Includes

- Polypropylene mounting plate
- Flojet 1/4" AODD pump with Santoprene diaphragm
- 10' chemical solution suction tube and strainer
- Air inlet ball valve and regulator/filter
- Stainless steel Precision Foamer body
- 125' discharge hose (75' twinline hose, 50' single hose)*
- Stainless steel discharge ball valve with 26" wand
- Zero degree and fan pattern nozzles



Model #	Description
935175	PD-EV Precision Foamer
OPTIONS	
710756	Viton Diaphragm Upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump
800100FT*	Hose, Twinline, Blue/Blue, 1/4" x 1/2" x 1' (By Foot)

**Longer twinline hose may be ordered in increments of 25 ft., up to 300'*

AIR OPERATED

PRE-DILUTE



Flojet Pump

1/4" AODD
Santoprene Diaphragm
Viton or Kalrez Optional

LAFFERTY TEAT FOAMERS™ produce high quality, low volume foam from foaming teat dip solutions for pre-milking preparation or post-milking sanitizing. Depending on the model selected, either compressed air or ambient air is combined with the solution to produce clinging foam that is applied through a teat foam cup or through an unique nozzle that produces an adjustable width foam-spray pattern.

Wall mount units feature Lafferty's signature heavy duty stainless steel mounting enclosure and use compressed air to power an AODD pump to draw and pressurize ready-to-use teat dip.

TEAT FOAMER AND SATELLITE TEAT FOAMER

REQUIRES: COMPRESSED AIR; READY-TO-USE (RTU) CHEMICAL SOLUTION

- Applies teat dips quickly and effectively
- Uses compressed air to power an AODD pump to draw and pressurize ready-to-use teat dip.
- Creates a low volume of rich, clinging foam which increases chemical contact time and effectiveness
- The unique teat cup holds, and continually refreshes, the perfect amount of teat dip foam
- Positive shut-off trigger gun prevents the unit from wastefully running unattended
- Adjustable foam consistency (wet/dry)
- Chemical resistant wetted components ensure years of outstanding performance with minimal maintenance
- Expandable - add up to eight Satellite Teat Foamers as needed (#935202)

REQUIREMENTS

Ready-to-Use Chemical Solution

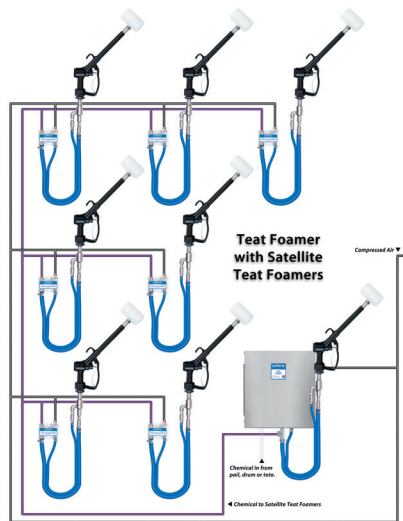
Compressed Air up to 1.5 CFM
Hose 1/2" ID x 25'
Nozzle Teat Foam Gun

935200 Teat Foamer Includes

- Stainless steel enclosure
- Flojet air pump
- Machined stainless steel foamer body
- Port to connect Satellite Teat Foamers (optional)
- 25' twin-line discharge hose and trigger gun
- Machined, polypropylene teat foam cup

935202 Satellite Teat Foamer Includes

- Machined polypropylene inlet manifold with chemical and compressed air inlets
- 25' x 3/8" tubing to receive chemical from Teat Foamer
- Machined stainless steel foamer body
- 25' twin-line discharge hose and trigger gun
- Machined, polypropylene teat foam cup



(Trigger gun not shown to scale.)

Model #	Description
935200	Teat Foamer
935202	Satellite Teat Foamer

OPTIONS

710756	Viton Diaphragm upgrade for Flojet Air Pump
710755	Kalrez Diaphragm Upgrade for Flojet Air Pump
800100FT*	Hose, Twinline, Blue/Blue, 1/4" x 1/2" x 1' (By Foot)

AF TEAT FOAMERS

REQUIRES: COMPRESSED AIR; READY-TO-USE (RTU) CHEMICAL SOLUTION

AF Teat Foamers use compressed air to power an AODD pump to draw and pressurize ready-to-use teat dip. The solution flows through the discharge hose and trigger gun to the airless foam nozzle which draws in atmospheric air to create a low volume of wet, clinging foam.

- Applies teat dips quickly and effectively
- Lightweight hose-end assembly allows for easy handling
- Positive shut-off trigger gun prevents the unit from wastefully running unattended
- Easy to use, no adjustments necessary
- Creates a low volume of wet, clinging foam which increases chemical contact time and effectiveness
- Chemical resistant wetted components ensure years of outstanding performance with minimal maintenance

AF Teat Foamer (935208)

- The unique teat cup holds, and continually refreshes, the perfect amount of teat dip foam when the gun trigger is squeezed
- Teat cup rotates for ease of application

AF Teat Foam Sprayer (935222)

- Applies teat dips quickly and effectively using an adjustable spray pattern foam nozzle
- The foam-spray fan pattern is ideal for quick coverage of teats and udder at the same time

REQUIREMENTS / SPECIFICATIONS

Compressed Air up to **1.5 cfm** **42.5 lpm**

Includes

- Stainless steel enclosure
- FloJet air pump
- 25' discharge hose & trigger gun
- Machined airless foam nozzle
- Machined, polypropylene teat foam cup (935208)



Model #	Description
935208	AF Teat Foamer
935222	AF Teat Foam Sprayer

CONNECTIVITY

Many Lafferty products can be equipped with cellular connectivity from CFS Technologies that enables real-time data exchange and remote monitoring capabilities. These solutions are designed to provide reliable and secure communication over cellular networks, enabling businesses to streamline their operations, increase efficiency, and reduce costs.

Our connectivity solutions support a wide range of cellular technologies, including 2G, 3G, 4G/LTE, and 5G. These solutions are also highly scalable, allowing businesses to easily add new devices to their network as their needs grow.

To learn more about our connectivity solutions, contact us by email — sales@cfstech.com — or phone — 501-851-2820.



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.

Offered with Lafferty's signature heavy-duty stainless steel mounting enclosures.

MIXING STATIONS

REQUIRES: 25-125 PSI WATER, CHEMICAL CONCENTRATE

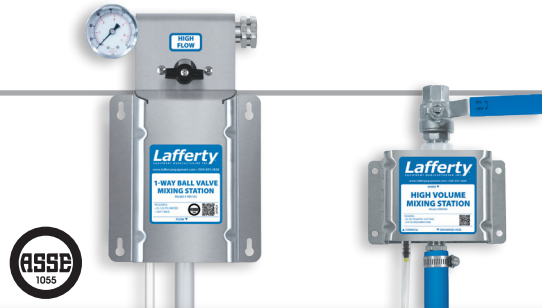
- Lafferty Mixing Stations are water-driven venturi proportioners that accurately dilute chemical concentrates to required ratios. Used to supply RTU chemical for Lafferty Freedom, Liberty or Internal Tank Foamers and Sprayers.
- Ball valve for hands-free dispensing of chemical solutions
- Certified to ASSE Standard 1055 for backflow prevention — Models 985100; 985100SS; 982025

REQUIREMENTS / SPECIFICATIONS

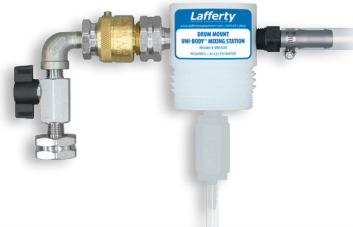
Water Pressure	25 - 125 PSI	1.7 - 8.6 bar
Water Flow Rate	@ 40 PSI	@ 2.8 bar
985100 1-Way – High Flow	4.5 gpm	17.0 lpm
985835 High Volume	9.9 gpm	37.5 lpm
985500 Drum Mount	4.0 gpm	15.1 lpm

Includes

- Polypropylene injector body
- Stainless steel mounting enclosure (*except Drum Mount model*)
- Stainless steel ball valve (985835)
- Integrated hose connection vacuum breaker (*except 985835*)
- Color-coded metering tips (20)



Model #	Description	ASSE 1055
985100	1-Way Ball Valve Mixing Station — High Flow	ASSE 1055
985100SS	1-Way Ball Valve SS Mixing Station	ASSE 1055
985835	High Volume Mixing Station	



Model #	Description
985500	Drum Mount Uni-Body™ Mixing Station

Gemini™ Mixing Stations

- For mixing two chemicals, Gemini Mixing Stations feature Lafferty's unique twin pick-up Gemini™ proportioner, an industry-leading design that incorporates two completely separated venturis in one injector body.
- Precise, independent dilution of two chemicals with differing viscosities and dilution ratios.
- The two chemical concentrates cannot cross mix and the diluted solutions mix only as they are discharged.

REQUIREMENTS / SPECIFICATIONS

Water Pressure	25 - 125 PSI	1.7 - 8.6 bar
Water Flow Rate	@ 40 PSI	@ 2.8 bar
Gemini Model 25	2.2 gpm	8.3 lpm
Gemini Model 150	7.0 gpm	26.5 lpm

Includes

- Machined polypropylene injector body
- Stainless steel mounting enclosure
- Stainless steel ball valve (982150)
- Integrated hose connection vacuum breaker (982025)
- Color-coded metering tips (20)

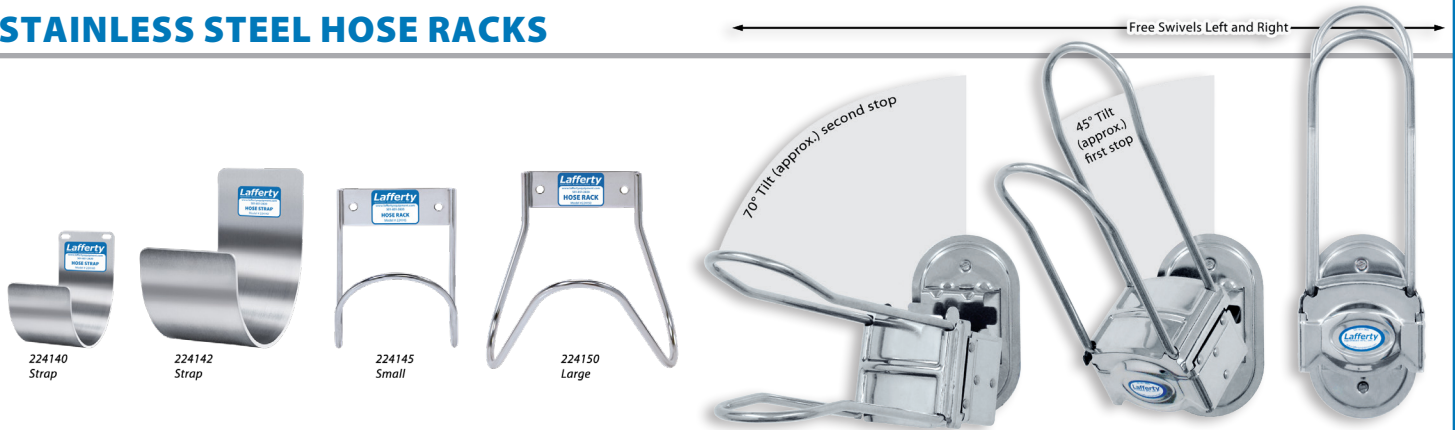


Model #	Description	ASSE 1055
982025	Gemini Model 25 Mixing Station	ASSE 1055
982150	Gemini Model 150 Mixing Station	

ACCESSORIES

In addition to supplying parts for all Lafferty equipment, Lafferty offers a range of convenient accessories to complement its wide range of chemical application equipment.

STAINLESS STEEL HOSE RACKS



HOSE CARRYING CAPACITY

Model #		Inside Diameter x Length	
224140	Strap	1/2 in. ID up to 75 ft. (+/-)	12.7 mm ID x 22.9 m (+/-)
224142	Strap, L	3/4 in. ID up to 75 ft. (+/-)	19.1 mm ID x 22.9 m (+/-)
224145	Small	3/4 in. ID up to 50 ft. (+/-)	19.1 mm ID x 15.4 m (+/-)
224150	Large	1 in. ID up to 75 ft. (+/-)	25.4 mm x 22.9 m (+/-)
224160	Tilt	3/4 in. ID up to 100 ft. (+/-)	19.1 mm ID x 30.5+ m (+/-)

Model #	Description
224140	Hose Strap, SS
224142	Hose Strap, SS, Large
224145	Hose Rack, SS, Small
224150	Hose Rack, SS, Large
224160	Hose Rack, SS, Large Tilt

METERING TIP DRIVER*

- Simply the best and easiest way to install or change metering tips across the entire Lafferty venturi product lineup.



Model #	Description
443790	Metering Tip Driver

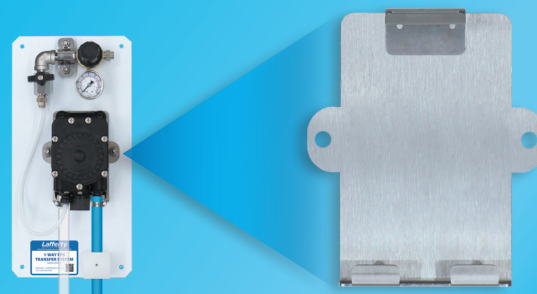
* One Metering Tip Driver is included in each pack of metering tips enclosed with new venturi applicator orders.

LAFFERTY QUICK RELEASE BRACKET FOR FLOJET G57 AIR PUMP

- Designed by Lafferty specifically for use with the Flojet G57 air pump
- Allows easy removal and replacement of the air pump without tools
- Included as standard component in most Lafferty systems with a Flojet G57 Air pump (for example, FPS Transfer Systems; Liberty and Liberty LF foamers and sprayers).

Adds a quick-release capability to any Flojet G57 installation.

Model #	Description
226095BRKT	Flojet Pump Quick Release Bracket, SS



AIR OPERATED

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

