Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 950730 · Portable Precision Fogger

REQUIREMENTS

Ready-to-Use Chemical Solution	
Solution Temperature	120°F MAX
Electric	120V - Min.15 AMP Circuit

OPTIONS

5 Gallon Pail

Pail, 5 Gallon Round W/ Suction Stem	# 709105

Square Jug Rack Conversion

Specify Round or Square Jug Racks at time of order

Proportioning / Filling Options

1-Way Ball Valve Mixing Station (4 GPM)	# 985100
1-Way Push Lever Mixing Station (4 GPM)	# 981100

WEIGHT & DIMENSIONS

Single Package

Shipping Weight	164 lbs.
Shipping Dimensions	48" x 40" x 55"

Ships on a pallet



Lafferty EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Portable Precision Fogger is a damp mist sprayer that uses compressed air and venturi action to draw pre-diluted chemical solution from a user-supplied pail on the stainless steel cart. The chemical solution flows through the twin-line hose and thumb-gun to the fogger body, which atomizes the chemical and projects it up to 15 feet. The adjustable output can wet surfaces at close range or spray mist (fog) into the air to cover exposed surfaces and penetrate hard-to-reach areas. This unit features an on-board 120V air compressor and requires only an electrical connection. Used for disinfection, sanitizing, insecticide application, odor control, humidification and many other applications.

SAFETY & OPERATIONAL PRECAUTIONS

- **Plug into a 15 amp circuit or larger. Do NOT use a light gauge extension cord!**
- To avoid voltage drop, power loss, and overheating of the motor, use extra air hose instead of an extension cord. Low voltage can cause damage to the motor.
- If an extension cord must be used: Use only an approved 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the air compressor. Make sure the extension cord is in good condition. Consult Compressor Manual for MINIMUM requirements.
- For proper performance do NOT modify, substitute nozzle, hose diameter or length
- Manufacturer assumes no liability for the use or misuse of this unit.
- ALWAYS wear protective clothing, gloves and eye-wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- NEVER fog flammable materials through the fogger.
- SPECIAL CAUTION: This fogger atomizes chemical into the air. Ensure that the area to be fogged has been evacuated of all people without proper respiratory protection!

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

Fill the air compressor with the included air compressor oil before operating.

The unit has been tested and air pressure preset at the optimum setting of 90 PSI. *No adjustments are necessary.*

You will need a container of ready-to-use (RTU) chemical solution.

1. Place a 5 gallon container of RTU solution in the jug rack and place the solution strainer in it.
2. Ensure the air compressor switch is in the off position.
3. Plug the air compressor into a receptacle. MINIMUM 15 AMP circuit.

CAUTION: ONLY USE A HEAVY-DUTY EXTENSION CORD. DO NOT USE A LIGHT-DUTY CORD.

TO OPERATE

Fill the air compressor with the included air compressor oil before operating.

- Plug into a 15 amp circuit or larger. The unit has been tested and, once filled with oil again, is ready to operate. The compressor air pressure is preset, no adjustments are needed.

SPECIAL CAUTION: This fogger atomizes chemical into the air. Ensure that the area to be fogged has been evacuated of all people without proper respiratory protection! Upon completion of fogging, ensure that sufficient time has elapsed for all the fog to have dissipated before returning to the area without proper respiratory protection.

To prevent chemical residue buildup, or if the unit will be out of service for an extended period, follow the Preventive Maintenance steps on page 4 of the instructions.

1. Plug in and turn on air compressor and allow it to pressurize the tank. Compressor will cycle on and off as needed.
2. Ensure that all the ball valves are in the off position. Open the air inlet ball valve on the cart.
3. Open the chemical ball valve at the fogger body.
4. Direct the discharge in a safe direction and open the air ball valve at the fogger body.
5. Allow **several** seconds for the chemical solution to **completely** fill the chemical hose and arrive at the fogger body.
6. When fogging is completed:
    - Close the chemical ball valve at the fogger body, and then close the air ball valve.
    - Return to the cart and close the air ball valve.
    - Open the air ball valve at the fogger body, briefly, to relieve pressure in the hose.
    - Compressor can be left full or, if it will be out of service for a few days, drain the tank.

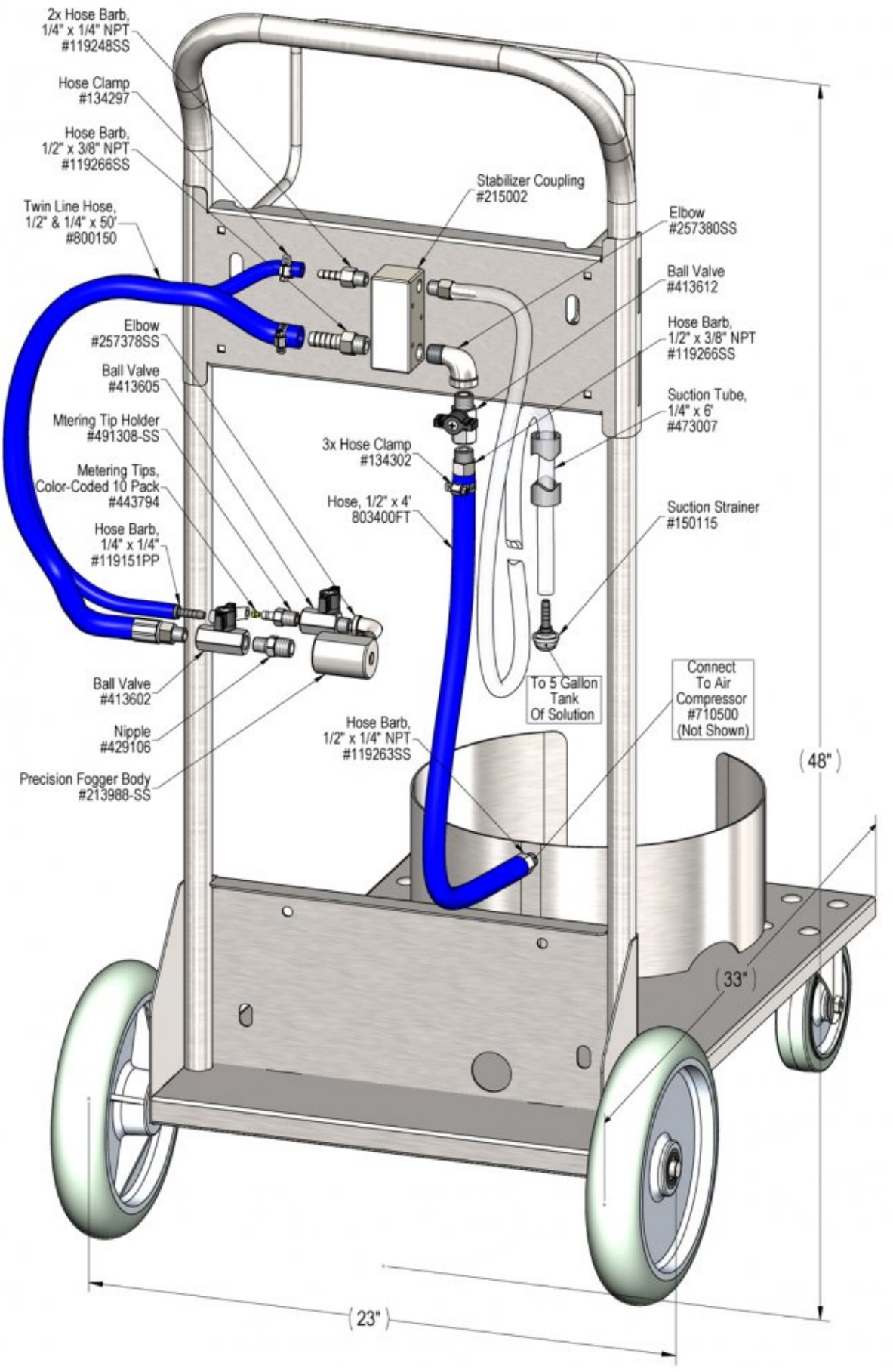
To Adjust Output

- Foggers may produce more volume than needed. If fog is too dense (wet), install a metering tip to reduce chemical usage and produce a lighter (drier) fog.
- Test without metering tip. Install metering tip **after** chemical hose is primed.

METERING TIP SELECTION

METERING TIP COLOR	FL-OZ PER MIN
Brown	0.56
Clear	0.88
Bright Purple	1.38
White	2.15
Pink	2.93
Corn Yellow	3.84
Dark Green	4.88
Orange	5.77
Gray	6.01
Light Green	7.01

The fl-oz/min shown are approximate values. Due to chemical viscosity, actual fl-oz/min may vary.


2x Hose Barb, 1/4" x 1/4" NPT #119248SS
Hose Clamp #134297
Hose Barb, 1/2" x 3/8" NPT #119266SS
Twin Line Hose, 1/2" & 1/4" x 50' #800150
Stabilizer Coupling #215002
Elbow #257380SS
Ball Valve #413612
Hose Barb, 1/2" x 3/8" NPT #119266SS
Elbow #257378SS
Ball Valve #413605
Mtering Tip Holder #491308-SS
Metering Tips, Color-Coded 10 Pack #443794
Hose Barb, 1/4" x 1/4" #119151PP
3x Hose Clamp #134302
Hose, 1/2" x 4' 803400FT
Suction Tube, 1/4" x 6' #473007
Suction Strainer #150115
To 5 Gallon Tank Of Solution
Connect To Air Compressor #710500 (Not Shown)
Ball Valve #413602
Nipple #429106
Precision Fogger Body #213988-SS
Hose Barb, 1/2" x 1/4" NPT #119263SS
48"
33"
23"

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Fogger will not draw chemical or is sputtering	2, 3, 4, 5	6, 7, 8, 9
B) Fog is too wet	1	
E) Air compressor will not turn on.		10

Possible Cause / Solution

Startup

1. **Drawing too much solution**
   - Install a metering tip to limit solution flow.
2. **Air pressure too high**
   - Slightly close the air supply valve to lower the pressure by lowering the volume until the fogger smooths out.
3. **Fogger too high to draw chemical, 12' maximum**
   - Operate the thumb gun within 12 vertical feet of the chemical pail
4. **Chemical tube kinked or not immersed in chemical or chemical depleted**
   - Straighten tube / replenish chemical
5. **Air pressure has been tampered with**
   - Adjust air regulator on compressor to default factory setting of 90 PSI

Maintenance

6. **Pin hole or cut in suction tube**
   - Replace suction tube
7. **Chemical strainer clogged up**
   - Clean or replace
8. **Metering tip or metering tip holder clogged**
   - Clean or replace metering tip and/or metering tip holder
9. **Debris clogging the fogger inlet jets**
   - Disconnect air supply, remove fogger body and visually inspect; remove debris from fogger inlet.
10. **Problem with air compressor**
    - Refer to air compressor instruction manual
    - Press the reset button. See manual.

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.