Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 950722-TD · Portable Timed / Delay 20 Gallon 455 4-Way Fogger

REQUIREMENTS

Ready-to-Use Chemical Solution

Compressed Air	up to 70 CFM @ 80 PSI
Minimum Air Supply Line	1/2"
Electric	120V

OPTIONS

Optional Check Valves to Keep Tubes Primed	
Check Valve, Chemical, PP(W), 1/4" (EPDM)	# 491401
For Lighter Fog Use Metering Tips (4 Sets)	
Metering Tips-Color Coded (10 Smallest)	# 443794
Proportioning / Filling Options	
1-Way Ball Valve Mixing Station (4 GPM)	# 985100
1-Way Push Lever Mixing Station (4 GPM)	# 981100
High Volume Mixing Station (9.9 GPM)	# 985835

WEIGHT & DIMENSIONS

Single Package	
Shipping Weight	74 lbs.
Shipping Dimensions	48" x 26" x 24"



Lafferty EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

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WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Portable Timed/Delay 20 Gallon 455 4-Way Fogger is a dry mist sprayer that uses compressed air (70 CFM @ 80 PSI) and venturi action to draw ready-to-use chemical solution from the tank on the stainless steel cart and project it up to 35 feet in 4 directions. The adjustable output sprays mist (fog) into the air to cover exposed surfaces and penetrate hard-to-reach areas. This unit features a telescoping mast and can also be used as a 2-Way fogger. An adjustable delay timer (up to 6 hours) allows the unit to activate at a later time, and an adjustable run timer controls how long the unit will operate (up to 60 minutes).

SAFETY & OPERATIONAL PRECAUTIONS

- **See Additional Safety Precautions included with the Electrical Control Box Installation Information**
- **Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician, per Local and State Electrical Codes**.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear proper respiratory protection, protective clothing, gloves and eye-wear when working with chemicals.
- Always direct the discharge away from electrical devices.
- Carefully follow chemical manufacturer's safe handling instructions and recommended precautions/practices especially when using flammable chemicals.
- For proper performance do NOT modify electrical control box.
- Disconnect electrical power to the control box prior to opening it.
- Remove any packing material from inside the control box before operating.
- **SPECIAL CAUTION: This fogger atomizes chemical into the air. Ensure that the chemical is safe to be around or the area to be fogged has been evacuated of all people and/or animals before starting fogging. 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.**

PORTABLE 455 4-WAY FOGGER

PROJECTS DRY FOG/MIST UP TO 35'

COMPRESSED AIR FLOW (CFM)		
PLUMES	**60 PSI**	**80 PSI**
4-Way	54.0	70.0
CHEMICAL SOLUTION DRAW RATE (FL-OZ/MIN)		
DISTANCE	**60 PSI**	**80 PSI**
80" Above Chemical	41.0	48.0
60" Above Chemical	47.0	52.0

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. Unpack and connect the 4-way fogger head to the nipples as shown in the drawing
2. (4) pick up tube ends are sticking out of the tank lid, push them over the 4 blue metering tip holders. Place the same tube on the 2 foggers with the ball valves. This allows the unit to be used as a 2-way.
3. Test using water to familiarize yourself with the fogger before running chemicals through it.

SETTING THE TIMER

1. Make sure the system is not plugged in to a power source. Open the control box cover. The box contains one timer with both "Delay & Run" adjustment knobs.
   Delay: This mode allows you to set the length of time you want the unit to to be inactive for before fogging begins. Set the timer by turning the knob to the amount of delay time that you require. (0-6 Hours)
   Run: This mode allows you to set the length of time you want the fogger to run for after the delay period has expired. Set the timer by turning the knob to the amount of run time that you require. (0-60 Minutes)
2. Close and lock the control box cover.
3. Plug the power cord into a 120 VAC power outlet. GFI recommended.

SWITCH SETTINGS (There are two lighted rocker switches on the front of the control box.)

1. The switch on the left is labeled "On/Off/Auto Ready". With the switch in the "Off" position there is no power to the unit and there are no lights illuminated. **Caution: If the switch is set to the "On" position, the green light is illuminated and the unit will automatically start fogging**. **This is useful during setup and testing with water. Otherwise this setting should be used with care.**
2. When the timers have been adjusted to required settings, the switch should be set to "Auto Ready". The red light illuminates and this provides power to the second switch on the right hand side of the control box.
3. The switch on the right is labeled "Auto Initiate". When you are ready to initiate the "Delay/Run" sequence, press the top of the switch to "Auto Initiate". The green light on this switch is now illuminated. The fogger is now in Delay mode and will perform according to preset times.

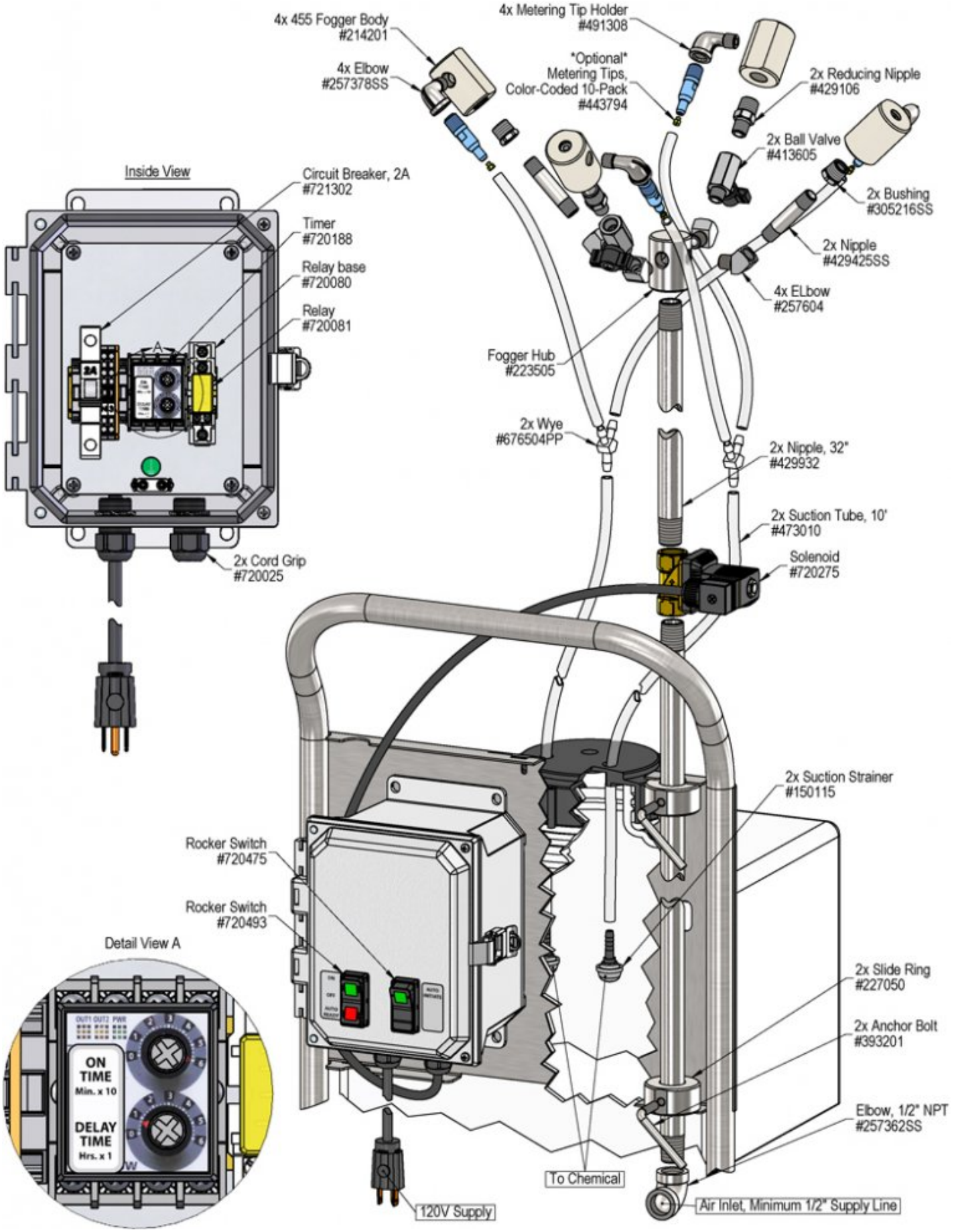
Note: If power is interrupted after timers have been set, the system stops all timer operations and needs to be reset.

SETTING AND ADJUSTING FOG DENSITY

1. Use a separate container of water to set and adjust the fog density. Place the pick-up tubes into the water.
2. Place the fogger in the center of the area to be fogged.
3. Loosen the "L"bolts on the slide brackets, raise the 4-way fogger assembly to preferred height, and tighten
4. Set the Delay Timer knob for a minimal amount of time (enough time for you to move away from the fogger) and set the Run Timer knob for about 1 minute (enough time for you to observe the fog density.)
5. Connect your 1/2" minimum air line to the fogger. Turn on your air and electricity supply.
6. Set the rocker switches on the control box as described above.
7. Move away from the fogger and observe the fogger's performance. **The fog should be consistent and uniform. If it is sputtering and inconsistent you may need to partially close your airline ball valve to fine tune the air volume/pressure. Best results are achieved at around 60 PSI.**
8. You will have to experiment with the amount of time and solution required to achieve the desired result.
9. If fog is more dense than the application requires, optional metering tips are available for restricting the solution volume to produce a lighter fog.
10. Once you are familiar with coverage, operation and air flow adjustments you are ready to fog.

TO OPERATE

1. Fill the tank with the desired amount of ready to use solution and insert the suction tubes in the tank.
2. With the fogger in the center of the area to be fogged and adjust fogger assembly to preferred height.
3. Set the timers to the desired Delay and Run times (see above).
4. Turn on your air and electricity supplies. Set the rocker switches as described above.
5. Turn air supply off when finished and ensure that the area is safe before returning


4x 455 Fogger Body
#214201
4x Elbow
#257378SS
4x Metering Tip Holder
#491308
Optional
Metering Tips,
Color-Coded 10-Pack
#443794
2x Reducing Nipple
#429106
2x Ball Valve
#413605
2x Bushing
#305216SS
2x Nipple
#429425SS
4x ELbow
#257604
Inside View
Circuit Breaker, 2A
#721302
Timer
#720188
Relay base
#720080
Relay
#720081
Fogger Hub
#223505
2x Wye
#676504PP
2x Nipple, 32"
#429932
2x Suction Tube, 10'
#473010
Solenoid
#720275
2x Cord Grip
#720025
2x Suction Strainer
#150115
Rocker Switch
#720475
Rocker Switch
#720493
Detail View A
ON
TIME
Min. x 10
DELAY
TIME
Hrs. x 1
2x Slide Ring
#227050
2x Anchor Bolt
#393201
Elbow, 1/2" NPT
#257362SS
To Chemical
120V Supply
Air Inlet, Minimum 1/2" Supply Line

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Fogger will not draw chemical or is sputtering	1, 2, 3, 4	8, 9, 10, 11
B) Fog is too wet	1, 5	
C) Doesn't come on when switch is turned on.	6, 7	
D) Comes on and runs continuously.	6	

Possible Cause / Solution

Startup

1. **Air line too small, not enough air pressure or volume**
   - See REQUIREMENTS, page 1.
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**
   - Raise the level of the chemical
4. **Chemical tube kinked or not immersed in chemical or chemical depleted.**
   - Straighten tube / replenish chemical
5. **Drawing too much solution**
   - Order and install optional metering tip or needle valve (4 & 8 Way only).
6. **Timer failed**
   - Replace timer.
7. **May have electrical problems**
   - Ensure circuit breaker (5 Amp) has not been tripped.
   - Have a qualified electrician check electrical connections.

Maintenance

8. **Pin hole or cut in suction tube**
   - Replace suction tube.
9. **Chemical strainer clogged up**
   - Clean or replace
10. **Metering tip or metering tip holder clogged**
    - Clean or replace metering tip and/or metering tip holder.
11. **Debris clogging the fogger inlet jets**
    - Disconnect air supply, remove fogger bodies and visually inspect; remove debris from fogger inlet.

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.