Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 930110 · 1-Way AP-MT Solvent Sprayer

REQUIREMENTS

Ready-to-Use Chemical Solution	
Compressed Air	up to 4 CFM
Hose	1/2" ID x 50'
Nozzle	2515
OPTIONS	
Stainless Steel Hose Racks	
Large Stainless Steel Hose Rack	# 224150
Stainless Steel Jug Racks	
Jug Rack, SS, 1 Gallon, Round/Square	# 224200
Jug Rack, SS, 2 1/2 Gallon	# 224210
Jug Rack, SS, 5 Gallon, Round/Square	e # 224215
Drum & Tote Stick Lengths & Seal M	aterials
Drum Stick, 33" (Viton or EPDM)	# 491643 / 491643-E
Drum Stick, 48" (Viton or EPDM)	# 491648 / 491648-E
Drum Stick, 54" (Viton or EPDM)	# 491645 / 491645-E
Tote Stick, 33" (Viton or EPDM)	# 491653 / 491653-E
Tote Stick, 48" (Viton or EPDM)	# 491654 / 491654-E
Tote Stick, 54" (Viton or EPDM)	# 491656 / 491656-E
Proportioning / Filling Options	
1-Way Ball Valve SS Mixing Station (4 GPM)	# 985100SS



OVERVIEW

The 1-Way MT-AP Solvent Sprayer is a solvent spray applicator for either applying neat chemical or diluting "on-the-fly". This system is designed for facilities with low or no water pressure. It is suitable for handling many solvents (including d-limonene) and features a lockable, stainless steel enclosure. It uses a 3/8" Warren Rupp air-operated, double-diaphragm pump to draw either ready-to-use chemical from a static tank or a chemical concentrate and water from two tanks and blend them using precision metering tips. The solution is then projected through the discharge hose, trigger gun, wand and fan nozzle.

SAFETY & OPERATIONAL PRECAUTIONS

- For proper performance do NOT modify, substitute nozzle, hose diameter or length
- Manufacturer assumes no liability for the use or misuse of this unit.
- \bullet 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.
- DO NOT use chemicals that are not compatible with glass filled polypropylene or the Teflon diaphragms.
- Do not use products that contain sodium hypochlorite (bleach) or strong alkaline
- Do NOT run the pump dry. This can cause damage to the pump.
- · Always slightly open the inlet ball valve until the pump primes.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

The unit has been tested and air pressure preset at the optimum setting of 60 PSI. Test "as is" before adjusting air pressure. Do not exceed 80 PSI.

- 1. Mount the unit above chemical and water containers.
- 2. Connect the discharge hose assembly.

Note: If pre-diluted chemical solution is to be used, immerse both the chemical and water suction strainers in the chemical solution.

Set the chemical dilution ratio by threading one of the color coded metering tips into each chemical check valve. See chemical labels for dilution ratio recommendation or consult your chemical supplier.

- For the strongest dilution ratio do NOT install a colored metering tip.
- The dilution ratios in the metering tip chart are based on water thin chemicals with a viscosity of 1CPS.
- Thicker chemicals will require a larger tip than the ratios shown in the chart.
- Application results will ultimately determine final tip color.
- Select the tip color that is closest to your desired chemical strength and thread it into the tip holder. DO NOT OVER-TIGHTEN.
- Push the chemical tube over the check valve barb and place the suction tube in the chemical concentrate.
- If necessary, cut suction tube(s) to length before attaching suction strainer.

TO OPERATE

- 1. Open the inlet air ball valve point the wand in a safe direction and pull the trigger on the gun.
- Final chemical dilution adjustments will now have to be made. Make adjustments to the metering tips based on results.
- 3. Pull the trigger on the gun to begin application.
- 4. When finished release the trigger, close the air ball valve and release pressure in the hose.

METERING TIP SELECTION DILUTION METERING TIP OZ/MIN COLOR RATIO @ 60 PSI Brown 0.56 456.1:1 Clear 0.88 289.9:1 Bright Purple 1.38 184.5:1 White 2.15 118 1.1 Pink 2.93 86 4.1 Corn Yellow 3.84 65.7:1 Dark Green 4.88 51.5:1 Orange 5.77 43.4:1 6.01 41.6:1 Gray 7.01 35.5:1 Light Green 8.06 Med. Green 30.8:1 Clear Pink 9.43 26 2.1 Yellow Green 11 50 21.3.1 Burgundy 11 93 20.5.1 13.87 17.5:1 Pale Pink Light Blue 15.14 15.9:1 Dark Purple 17.88 13.3:1 Navy Blue 25.36 91.1 Clear Aqua 28.60 8.0:1 Black 50.00 4.7:1 No Tip Ratio Up To 1:1

The dilution ratios above are approximate values. Due to chemical viscosity, actual dilution ratios may vary.

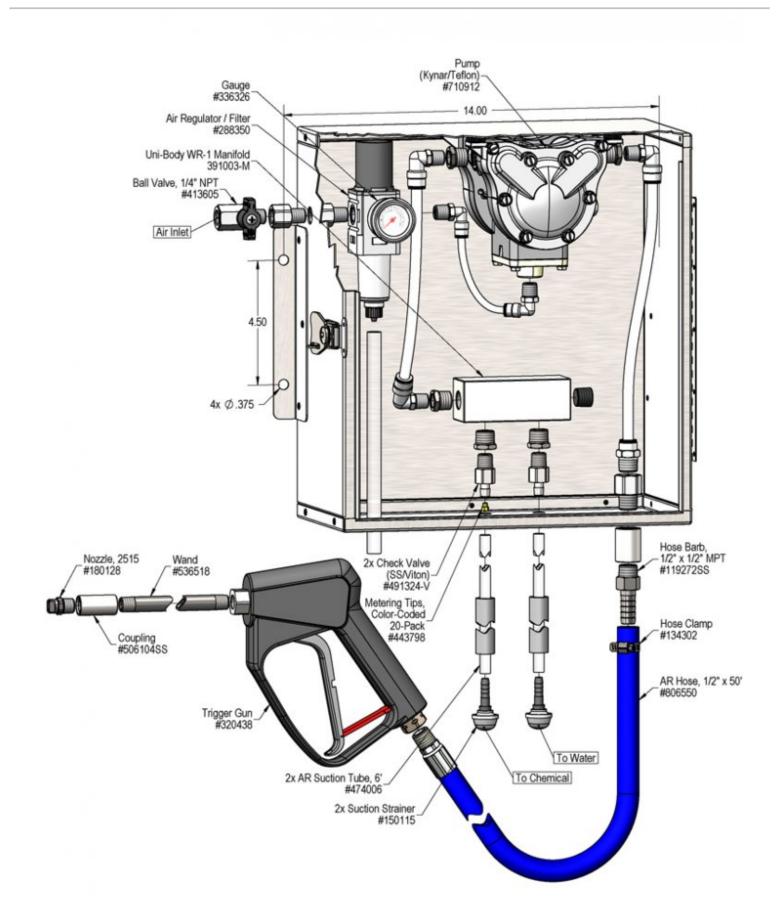
FORMULA

GPM × 128 ÷ Desired Dilution Ratio = oz/min

See Unit Flow Rates chart for GPM

- Use 20 for 20:1 dilution ratio, 30 for 30:1, etc.
- Match calculated ounces per minute (oz/min) to
- nearest oz/min in Metering Tip Selection chart.

UNIT FLOW RATES	
PSI	GPM
60	2.00



Troubleshooting Guide		
Possible Cause / Solution		
StartupMaintenance1,56,10,11		
2,5 7,8,9,10		
3		
4 7.8.9.10		
use / Solution		
Maintenance		
6. Air regulator clogged or failed		
 Clean or replace. 		
7. Water or chemical check valve stuck or clogged		
 Clean or replace. 		
8. Chemical or water strainer clogged up		
 Clean or replace. 		
9. Chemical or water tube stretched out where tube slides		
over hose barbs or pin hole/cut in tube sucking air.		
 Cut off end of tube or replace tube. 		
10. Problem with air pump		
 Refer to air pump instruction manual 		
11. Use of an eiler in the sining will serve numm to stall		
 11. Use of an oiler in the airline will cause pump to stall Use only clean, dry air. 		

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.

