

Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 932706-V • Dual Pump FPV-PD 2-Way Concrete Sprayer

REQUIREMENTS

Ready-to-Use Chemical Solution

Compressed Air	up to 6 CFM
Hoses	1/2" x 50'
Nozzles	2520

OPTIONS

Stainless Steel Hose Racks

Large Stainless Steel Hose Rack	# 224150
---------------------------------	----------

To Dilute and Dispense Ready-To-Use Acid Solution

414HC Acid Mixing Station	# 980415
---------------------------	----------

Drum & Tote Stick Lengths & Seal Materials

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



www.laffertyequipment.com
501-851-2820

**WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!**

OVERVIEW

The Dual Pump FPV-PD 2-Way Concrete Sprayer is a dual chemical spray applicator for use with highly corrosive chemicals such as those used to remove concrete and for aluminum brightening. This acid-resistant system uses 2 Flojet air-operated, double-diaphragm pumps to draw 2 ready-to-use chemical solutions from static tanks. Each solution is projected through a dedicated hose as a chemical spray, wand and recessed fan nozzle. Dual pumps allow both hoses to spray independently or simultaneously.

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.
- 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 Viton diaphragms.

UNIT FLOW RATES

PSI	GPM
60	2.45

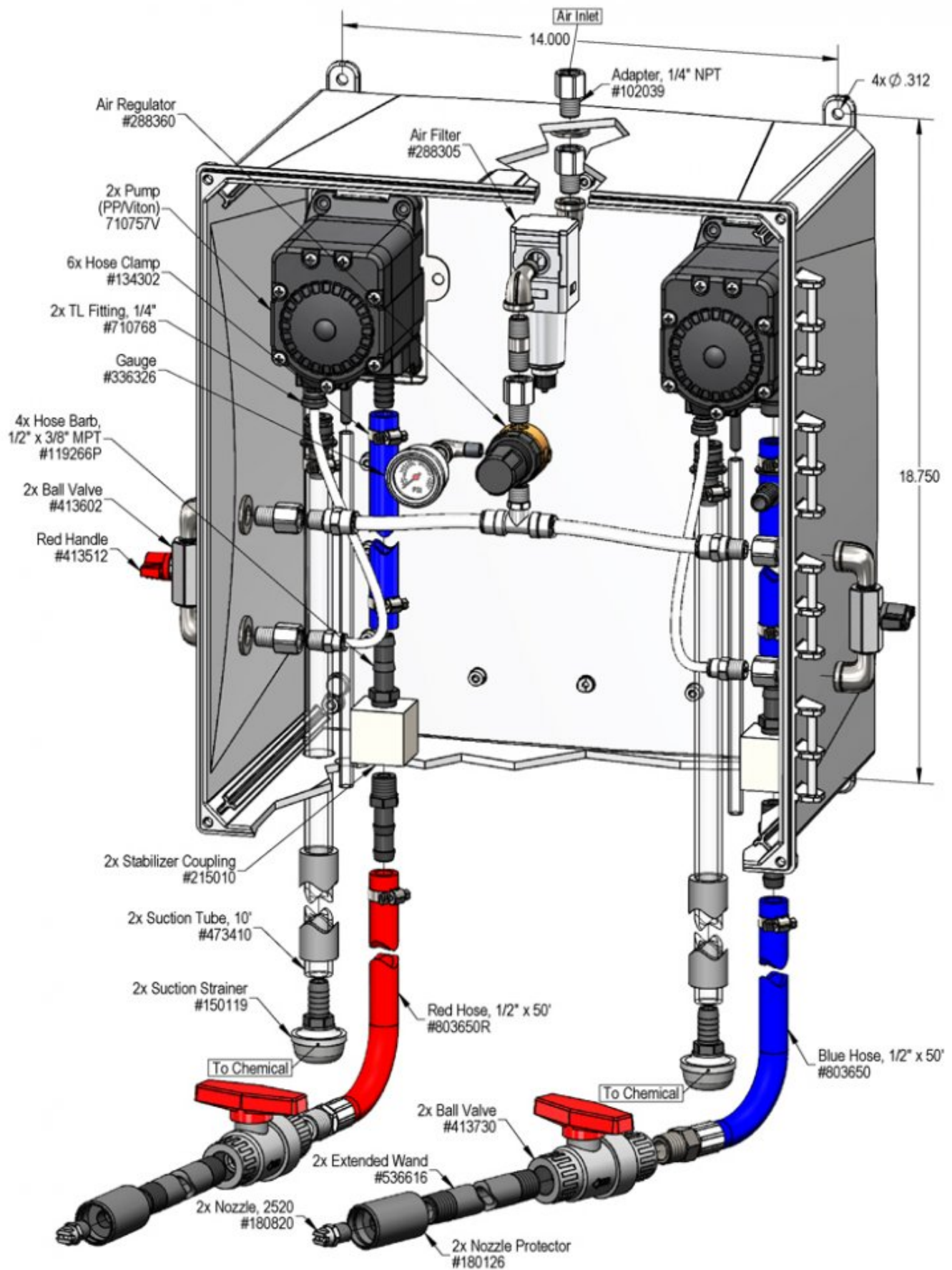
TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. Mount the unit above chemical solution containers to prevent siphoning.
2. Attach the discharge hose assemblies as shown.
3. Securely attach the suction tubes to the pumps as shown and place the strainers into the ready to use chemical solution containers.
4. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON

TO OPERATE

- **Always make sure the discharge ball valve or trigger gun is closed and pointed in a safe direction before turning the air on. Discharge can be shut off at any time during operation but should not be left unattended for long periods of time.**
- **The unit has been tested and is ready to operate, the air pressure is preset at 60 PSI. This is the optimum pump pressure. Test "as is" before making any adjustments.**

1. With the wand in hand direct the discharge in a safe direction, open the discharge ball valve (or squeeze trigger gun), and open the air ball valve.
2. When spraying is complete:
 - Close the discharge ball valve or release trigger.
 - Promptly return to the unit and close the air ball valve.
 - Briefly re-open the discharge ball valve or trigger gun to relieve pressure in the hose.
 - Store the hose on optional hose rack.
3. IF applicable, rinse the work surface before the solution dries.



Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not run or pump solution. B) Will not draw chemical. C) Pump runs too fast with no output.	1,3,4 1,2,3 2	5,6,9,10 6,7,8 6,7,8,9

Possible Cause / Solution	
Startup	Maintenance
<ol style="list-style-type: none"> 1. Inlet ball valve partially closed or air pressure too low. <ul style="list-style-type: none"> ◦ Completely open air inlet ball valve. 2. Chemical tube not immersed in container or container empty <ul style="list-style-type: none"> ◦ Immerse tube or replenish. 3. Discharge ball valve closed or hose kinked <ul style="list-style-type: none"> ◦ Open ball valve / Straighten the hose. 4. Ice particles from condensation in air line — Air pump can periodically "freeze up" (stall) due to ice particles in the pump's exhaust (depending on air humidity & other factors) <ul style="list-style-type: none"> ◦ WAIT several seconds to allow the ice particles to melt and blow out, at which time the pump will automatically resume pumping. 	<ol style="list-style-type: none"> 5. Air regulator clogged or failed <ul style="list-style-type: none"> ◦ Clean or replace. 6. Chemical strainer clogged up <ul style="list-style-type: none"> ◦ Clean or replace. 7. Vacuum leak in suction line. <ul style="list-style-type: none"> ◦ Tighten the connection(s). 8. Chemical tube stretched out where tube attaches or pin hole/cut in tube sucking air. <ul style="list-style-type: none"> ◦ Cut off end of tube or replace tube. 9. Problem with air pump <ul style="list-style-type: none"> ◦ Refer to air pump instruction manual. ◦ https://www.xylem.com/en-us/products-services/pumps-packaged-pump-systems/pumps/positive-displacement-pumps2/diaphragm-pumps/air-operated-diaphragm-pumps/g57-air-operated-double-diaphragm-pump/documentation/ ◦ Replace pump. 10. Use of an oiler in the airline will cause pump to stall <ul style="list-style-type: none"> ◦ 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.

