# Lafferty Equipment Manufacturing, LLC
# Installation & Operation Instructions

## Model # 941912 · Portable 2-Wheel 20 Gallon FPS Transfer System

## REQUIREMENTS

| | |
|---|---|
| **Chemical Concentrate or Ready-to-Use Solution** | |
| **Compressed Air** | up to 4 CFM |

## OPTIONS

| | |
|---|---|
| **Alternate Seal Materials - Santoprene Standard** | |
| Viton Upgrade: Flojet Air Pump & Check Valves | # 710756 |
| Kalrez Upgrade: Flojet Air Pump & Check Valves | # 710755 |




Lafferty® EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

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

## OVERVIEW

The Portable 2-Wheel 20 Gallon FPS Transfer System is a chemical transfer system that will transport ready-to-use chemical or concentrate on an all stainless steel cart assembly and dispense it into any sized container using an open-flow wand. This unit uses compressed air to power a Flojet air-operated, double-diaphragm, pump which draws chemical from the 20 gallon tank and projects it through the 25 foot discharge hose, ball valve, and extended wand.

## SAFETY & OPERATIONAL PRECAUTIONS

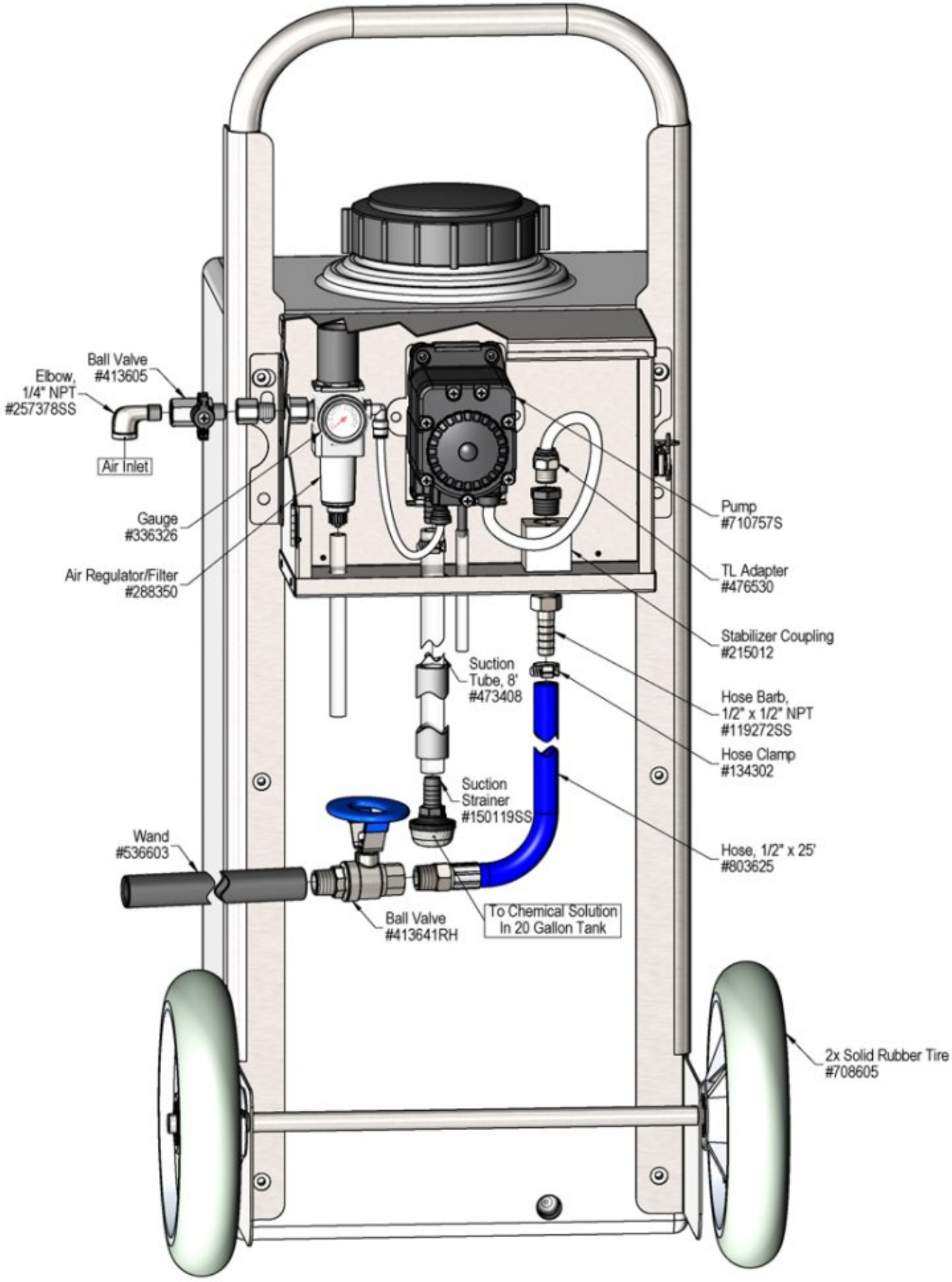
- For proper performance do NOT modify or substitute hose diameter.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye-wear when working with chemicals.
- Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- DO NOT use d-Limonene or other chemicals that are not compatible with the Santoprene diaphragms.
- Viton or Kalrez upgrades are available.

## TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

1. Fill the tank to the desired level with ready to use solution or chemical concentrate. Replace lid.
2. Roll the unit to the required location.
3. Attach a compressed airline to the inlet ball valve.
   - The air pressure has been preset at 60 PSI, this is the optimum pressure for transferring and should not be higher than 60 PSI.

## TO OPERATE

1. Make sure the discharge ball valve is closed and in hand.
2. Open the inlet ball valve, place the wand in the container to be filled then open the discharge ball valve to begin filling container.
3. When container is filled to the desired level, close the valve then close the inlet ball valve and relieve pressure in the hose.


Ball Valve
#413605
Elbow,
1/4" NPT
#257378SS
Air Inlet
Gauge
#336326
Air Regulator/Filter
#288350
Pump
#710757S
TL Adapter
#476530
Stabilizer Coupling
#215012
Suction
Tube, 8'
#473408
Hose Barb,
1/2" x 1/2" NPT
#119272SS
Hose Clamp
#134302
Suction
Strainer
#150119SS
Wand
#536603
Hose, 1/2" x 25'
#803625
Ball Valve
#413641RH
To Chemical Solution
In 20 Gallon Tank
2x Solid Rubber Tire
#708605

# Troubleshooting Guide

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

## Possible Cause / Solution

### Startup

1. **Inlet ball valve partially closed or air pressure too low.**
   - Completely open air inlet ball valve.
2. **Chemical tube not immersed in container or container empty**
   - Immerse tube or replenish.
3. **Hose kinked**
   - 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)**
   - WAIT several seconds to allow the ice particles to melt and blow out, at which time the pump will automatically resume pumping.

### Maintenance

5. **Air regulator clogged or failed**
   - Clean or replace.
6. **Chemical strainer clogged up**
   - Clean or replace.
7. **Vacuum leak in suction line.**
   - Tighten the connection(s).
8. **Chemical tube stretched out where tube attaches or pin hole/cut in tube sucking air.**
   - Cut off end of tube or replace tube.
9. **Problem with air pump**
   - Refer to air pump instruction manual.
   - https://www.xylem.com/en-us/brands/Flojet/flojet-products/g57-air-operated-double-diaphragm-pump
   - Replace pump.
10. **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.