# Lafferty Equipment Manufacturing, LLC
# Installation & Operation Instructions

## Model # 941940 · Portable 40 Gallon Freedom XV Transfer System

## REQUIREMENTS

**Chemical concentrate or ready to use solution**

| | |
|---|---|
| Compressed Air | up to 14 CFM |

## OPTIONS

**Air Pump Diaphragm Options - Santoprene Standard**

| | |
|---|---|
| Teflon Diaphragm Upgrade For 1/2" Air Pump | # 710919 |

## WEIGHT & DIMENSIONS

**Single Package**

| | |
|---|---|
| Shipping Weight | 148 lbs. |
| Shipping Dimensions | 48" x 40" x 55" |

**Ships on a pallet**




Lafferty EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

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

## OVERVIEW

The Portable 40 Gallon Freedom XV Transfer System is a high volume chemical transfer system that will transport chemical on an all stainless steel cart assembly and dispense into any sized container using an open flow wand. This unit uses compressed air to power a 1/2 inch air pump which draws chemical from the 40 gallon tank and projects it through the 25 foot discharge hose, ball valve and extended wand.

## SAFETY & OPERATIONAL PRECAUTIONS

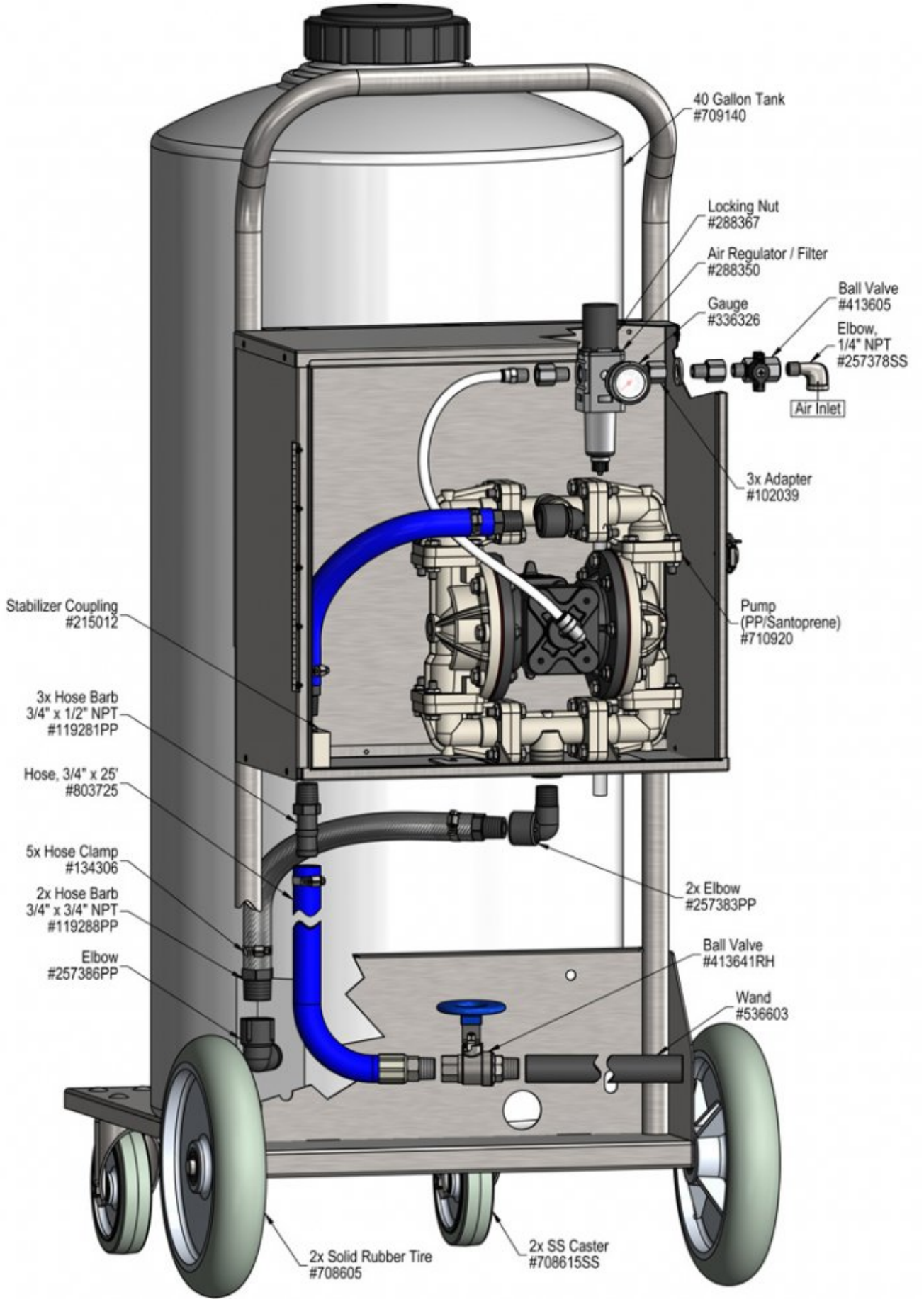
- See pump operations instructions for proper maintenance and start up procedures.
- Must use clean dry air!
- The pump's gasketed fasteners have been tightened and tested according to manufacturer's specifications and should be checked after the first use to prevent possible leakage and damage.
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye-wear when working with chemicals.
- Follow the chemical manufacturer's safe handling instructions.
- DO NOT use chemicals that are not compatible with the Santoprene diaphragms.
- Optional Teflon diaphragms 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.


40 Gallon Tank
#709140
Locking Nut
#288367
Air Regulator / Filter
#288350
Gauge
#336326
Ball Valve
#413605
Elbow,
1/4" NPT
#257378SS
Air Inlet
3x Adapter
#102039
Pump
(PP/Santoprene)
#710920
Stabilizer Coupling
#215012
3x Hose Barb
3/4" x 1/2" NPT
#119281PP
Hose, 3/4" x 25'
#803725
5x Hose Clamp
#134306
2x Hose Barb
3/4" x 3/4" NPT
#119288PP
Elbow
#257386PP
2x Elbow
#257383PP
Ball Valve
#413641RH
Wand
#536603
2x Solid Rubber Tire
#708605
2x SS Caster
#708615SS

# Troubleshooting Guide

| Problem | Possible Cause / Solution | |
|---|---|---|
| | Startup | Maintenance |
| A) Air pump will not run or pump solution. | 1,2,3 | 4,5,8,9 |
| B) Will not draw chemical. | 1,2,3 | 5,6,7 |
| 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.
   - The air regulator has been pre-set at 60 psi. Do not go over 100 PSI!
2. **Chemical tube not immersed in container or container empty**
   - Immerse tube or replenish.
3. **Hose kinked**
   - Straighten the hose.

### Maintenance

4. **Air regulator clogged or failed**
   - Clean or replace.
5. **Chemical strainer clogged up**
   - Clean or replace.
6. **Vacuum leak in suction line.**
   - Tighten the connection(s).
7. **Chemical tube stretched out where tube attaches or pin hole/cut in tube sucking air.**
   - Cut off end of tube or replace tube.
8. **Problem with air pump**
   - Refer to air pump instruction manual.
   - Replace pump.
9. **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.