Lafferty Equipment Manufacturing, LLC
Installation & Operation Instructions

Model # 944203 · Portable SS XVMV Foamer

REQUIREMENTS

Chemical Concentrate
Static Tank of Water

Compressed Air	up to 50 CFM
Hose	1" ID x 100'
Nozzle	XV Foam Nozzle



Lafferty EQUIPMENT MANUFACTURING LLC

CFS TECHNOLOGIES

www.laffertyequipment.com
501-851-2820

WARNING! READ ALL INSTRUCTIONS BEFORE USING EQUIPMENT!

OVERVIEW

The Portable SS XVMV Foamer is an extra-high volume foam applicator designed for facilities with low or fluctuating water pressure. Powered completely by compressed air it projects foaming chemicals on to any surface up close or at distances up to 40 feet. A stainless steel 1" air pump, with Teflon diaphragms, is used to draw water and chemical concentrate from static tanks or to draw pre-diluted chemical. Chemical dilution is accomplished by regulating the flow of chemical and water using ball valves. Compressed air is injected into the solution to greatly increase volume and coverage ability. An incredible volume of rich clinging foam is projected through the hose, wand and 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.
- 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 stainless steel or the Teflon diaphragms.
- **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)

1. Cut chemical/water suction tubing to desired lengths.
2. Securely attach the chemical/water suction tubes as shown in the drawing.
3. Place one tube/strainer in the chemical concentrate and the other in a static container of water. (DO NOT use pressurized water!)
4. If using pre-diluted or neat chemical solution place both tubes in the chemical solution.
5. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON

For pre-diluted chemistry:

1. Insert both chemical suction tubes into static tanks of RTU chemical
2. Open one or both inlet ball valves as needed to allow the desired flow rate

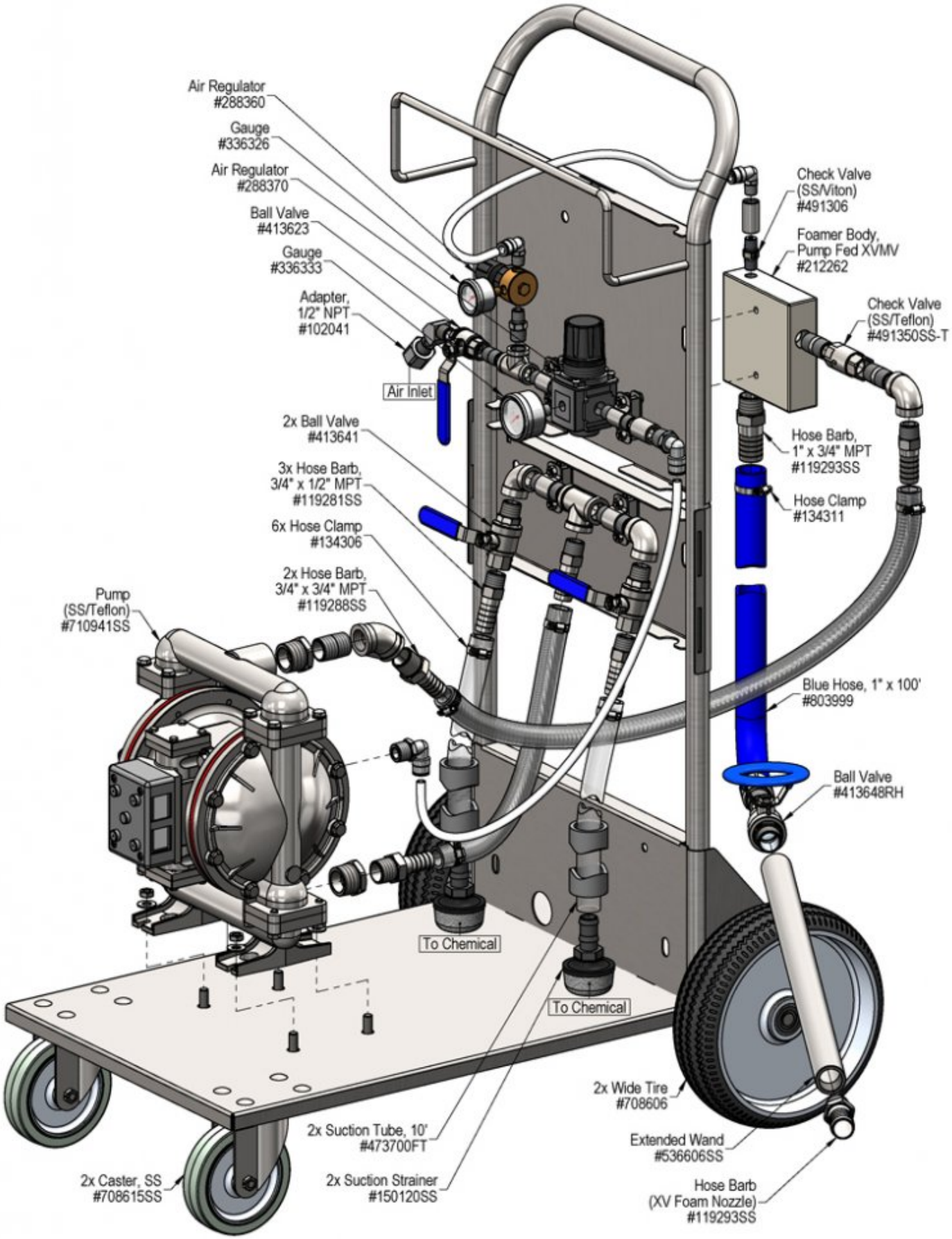
To blend chemical concentrate with water:

1. Insert one chemical suction tube into a static tank of water and the other into the chemical concentrate
2. Open the chemical ball valves as needed to allow the desired flow rate and ratios

TO OPERATE

- **Always make sure the discharge ball valve is closed or pointed in a safe direction before turning the air on. Ball valve can be shut off at any time during operation but should not be left unattended for long periods of time. Expect a strong blast when re-opening ball valve.**
- **The unit has been tested and is ready to operate, the pump air pressure preset at 60 PSI. This is the optimum pressure. The foam consistency regulator is preset at 50. Test "as is" before making any adjustments. Pump pressure can be raised to 90 PSI for extra volume or increased throw distance.**
- The foam consistency air regulator is preset at 50 PSI. To adjust foam consistency, turn the foam consistency regulator clockwise for dryer foam and counterclockwise for wetter foam. Wait several seconds after each adjustment to see the results. Keep this pressure below the pump pressure.

1. With the foam wand in hand direct the discharge in a safe direction and open the discharge ball valve and the air ball valve.
2. If the flow of foam surges, the foam consistency air regulator pressure is too high or the chemical concentration is too weak, reduce the air pressure by turning the knob counterclockwise until the foam flow stabilizes. Or add more chemical concentrate.
3. A medium-wet foam will give the best cleaning results! Very dry foam will NOT clean as well!
4. When foaming is complete:
    - Close the discharge ball valve.
    - Promptly return to the unit and close the air ball valve.
    - Briefly re-open the discharge ball valve to relieve pressure in the hose.
5. Rinse the work surface before the foam dries.


Air Regulator
#288360
Gauge
#336326
Air Regulator
#288370
Ball Valve
#413623
Gauge
#336333
Adapter,
1/2" NPT
#102041
Air Inlet
2x Ball Valve
#413641
3x Hose Barb,
3/4" x 1/2" MPT
#119281SS
6x Hose Clamp
#134306
2x Hose Barb,
3/4" x 3/4" MPT
#119288SS
Pump
(SS/Teflon)
#710941SS
To Chemical
To Chemical
2x Suction Tube, 10'
#473700FT
2x Suction Strainer
#150120SS
2x Caster, SS
#708615SS
2x Wide Tire
#708606
Extended Wand
#536606SS
Hose Barb
(XV Foam Nozzle)
#119293SS
Check Valve
(SS/Viton)
#491306
Foamer Body,
Pump Fed XVMV
#212262
Check Valve
(SS/Teflon)
#491350SS-T
Hose Barb,
1" x 3/4" MPT
#119293SS
Hose Clamp
#134311
Blue Hose, 1" x 100'
#803999
Ball Valve
#413648RH

Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not pump or runs with no output.	1, 2, 3, 4	8, 12
B) Foam surges and/or hose "bucks".	1, 2, 3, 4, 5, 6	
C) Foam output too wet.	1, 2, 3, 4, 5	8, 9, 11
D) Foam output too dry.	2	9, 11, 12
E) Cleaning results not acceptable.	5, 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. **Foam consistency air pressure too high**
   - Adjust the air regulator slowly clockwise until foam stabilizes.
3. **Discharge ball valve not completely open or Discharge hose kinked**
   - Completely open the discharge ball valve / straighten hose
4. **Solution tube not completely immersed in chemical or container empty**
   - Immerse tube or replenish chemical.
5. **Dilution too weak**
   - Add more chemical to solution container.
6. **Improper chemical**
   - Ensure product is recommended for foaming and/or the application
7. **Soil has hardened on surface**
   - Always rinse foam before it dries.

Maintenance

8. **Solution strainer blocked**
   - Clean or replace
9. **Air regulator failed**
   - Clean or replace
10. **Air or water check valve(s) failed**
    - Clean or replace
11. **Nozzle size too small or missing**
    - See REQUIREMENTS, page 1.
12. **Problem with air pump**
    - Refer to air pump instruction manual. Replace pump.

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.