

LAFFERTY EQUIPMENT MFG., INC. INSTALLATION / OPERATION INSTRUCTIONS

1035 / ULTIMATE HOSE DROP STATION

Requirements

35 – 100 PSI Water
(Minimum flow rate, 10 GPM @ 35 PSI)
30 – 100 PSI Air (Up to 7 SCFM)
3/4" I.D. Discharge Hose

Water Temperature
Ambient – 140° F

A convenient combination station that offers the effectiveness of FOAM CLEANING with FLOOD SANITIZING.

OPTIONS

- Air Gauge
- Water Gauge
- Water Regulator - for fluctuating water pressure
- Backflow Preventer
- Stainless Steel Hose Rack
- 1 Gallon Stainless Steel Jug Rack (round)
- 1 Gallon Stainless Steel Jug Rack (square)
- 2 ½ Gallon Stainless Steel Jug Rack (inside dimensions 8 ½" x 10 ½")
- 5 Gallon Stainless Steel Jug Rack (inside dimensions 12" x 12")



Model # 915130, 1035/Ultimate Hose Drop Station
(complete with 50' hose, ball valve, wand, and nozzle)

1035/Rinse/Ultimate Hose Drop Station Also Available

INSTALLATION AND OPERATION INSTRUCTIONS

1035 / ULTIMATE HOSE DROP STATION

TO INSTALL *(See Parts Diagram, Facing Page)*

1. Mount the 1035/Ultimate Hose Drop Station to a suitable surface.
2. **Station is supplied without a backflow preventer. To prevent possible chemical back up into the water system, comply with local plumbing codes and install appropriate backflow preventer before operating.** Then, connect your 35 – 100 PSI water and air lines to the station.
3. Connect the wand assembly and QD socket to the hose and station as shown in the diagram. **[Hose must be 3/4" I.D. Use only the 50250 nozzle supplied with the station.]**
4. *Stapled to these instructions with a matching color-coded chart are metering tips which control your chemical to water dilutions.* You will need to know the water pressure and the number of ounces of chemical needed per gallon of water to determine the correct tip colors. *(See chemical label for manufacturer's recommendation.)*
 - A. Locate your water pressure in the chart. The number below it is your water flow rate in **gallons per minute**.
 - B. Multiply the **gallons per minute** by the number of **ounces of chemical needed per gallon** of water.
 - C. Match your answers to the *nearest* number in the metering tip selection chart. **[The tip selection chart is based on water-thin chemical. Thicker chemicals will require a larger metering tip. If the selected metering tip does not produce desired foam consistency or chemical ratio, increase or decrease tip size until desired foam consistency or chemical ratio and cleaning results are achieved.]**

EXAMPLE OF METERING TIP SELECTION

Ultimate Foamer at 60 PSI

- 60 psi = 1.54 GPM
- 4 ounces chemical per gallon of water
- $1.54 \times 4 = 6.16$
- $6.16 \cong 6.1$ for thin chemical (Gray tip) or (thicker chemicals will require a larger tip)

1035 Sanitizer at 80 PSI

- 80 PSI = 11.10 GPM
- 1 ounce of chemical per 4 gallons of water
- $11.10 \times .25 = 2.78$ ounces of chemical
- $2.78 \cong 2.7$ for thin chemical (Pink tip)

- D. Open cover. Install selected metering tip into each check valve. Then, push the chemical tubes over the solution check valves and immerse the chemical strainers into your chemical concentrates. Close cover.

Air Adjustment Guidelines

For desired foam consistency, you may need to adjust the air pressure with the air regulator and the volume with the needle valve. To make adjustments, turn the regulator knob 1/4 of a revolution at a time. Then, turn the needle valve slightly. Wait to see the results before continuing.

TO FOAM

1. Securely *quick connect* the hose to the foam QD plug. Make sure the needle valve is turned completely **clockwise**. Then, turn the needle valve 1 - 2 *complete* turns **counterclockwise**. Next, pull out the adjustment knob on the air regulator.
2. While firmly holding the foam wand **point the discharge away from yourself and others**. Then, open the discharge ball valve. Open the water ball valve and the air ball valve and observe foam quality. If foam is too wet:
 - A. Turn air regulator knob **clockwise** to increase pressure until foam is desired consistency. If flow of foam surges and/or becomes too dry, turn the needle valve **clockwise** to decrease volume until foam is desired consistency. It may be necessary to "fine tune" your adjustments by turning the regulator and needle valve **clockwise** and/or **counterclockwise** until foam is desired consistency.
 - B. If foam is still too wet or surging after trying all combinations of adjustments, try installing a larger metering tip and/or see Troubleshooting Guide (pg. 4). When foam is desired consistency, push lock the air regulator.
3. Foam from the bottom and work up to prevent streaking.
4. When foaming is completed, close the discharge ball valve. Return to station and close the water ball valve. While firmly holding foam wand, slowly re-open the discharge valve. Expect a **strong** blast of foamy solution. After hose is cleared out, close the air ball valve.
5. Rinse the work surface before foam dries.

TO SANITIZE

1. Quick connect the hose assembly to the sanitize QD plug. Close the discharge ball valve and open the sanitize ball valve. Move to the area to be sanitized, open the discharge ball valve and begin application.
2. When application is completed, close the discharge ball valve. Return to the station and close the sanitize ball valve. Re-open the discharge ball valve to relieve pressure in hose. Store hose on optional hose rack or reconnect to the foam QD plug and empty the hose with air.

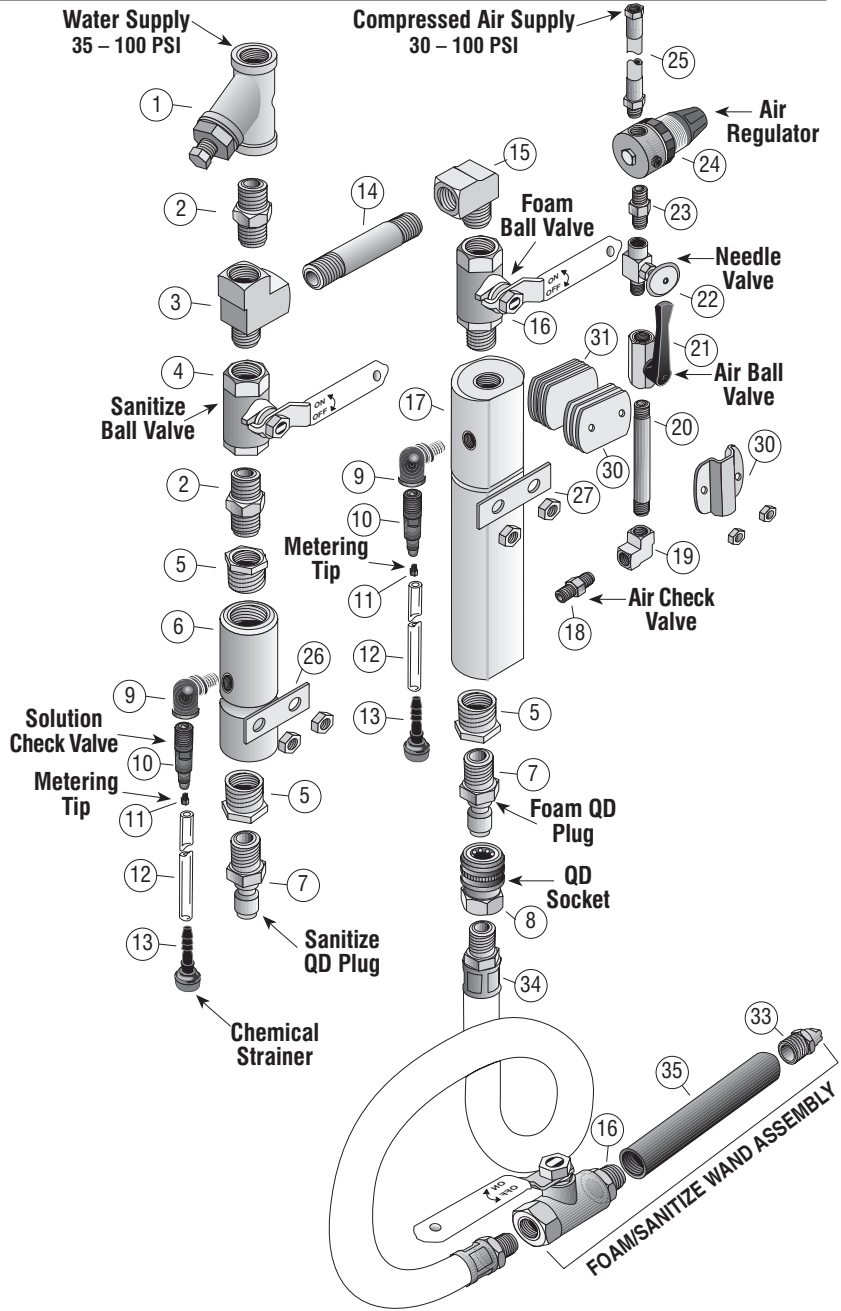
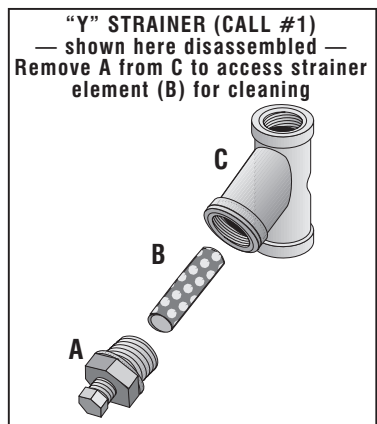
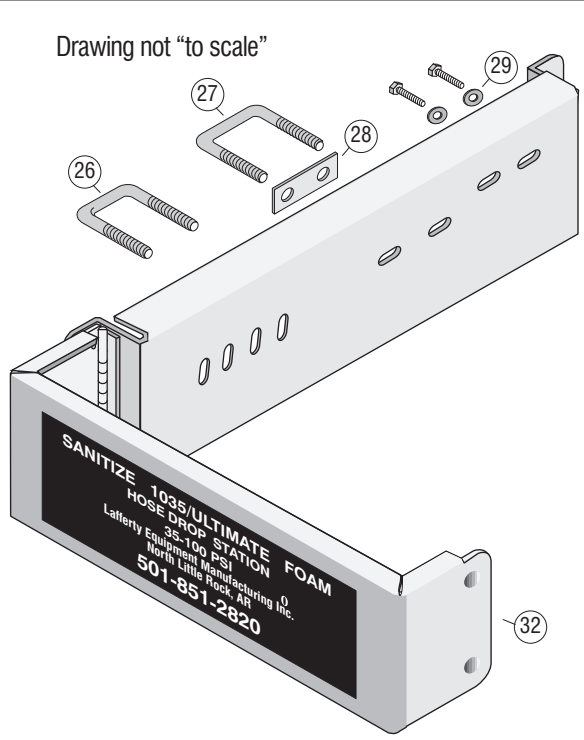
CAUTION: Shut down after each use! Never leave station unattended without closing the incoming water and air valves and relieving pressure in the hose.

WATER PRESSURE	40 PSI	60 PSI	80 PSI	100 PSI
1035 SANITIZER WATER FLOW RATE	8.60 GPM	9.90 GPM	11.10 GPM	12.30 GPM
ULTIMATE FOAMER WATER FLOW RATE	1.34 GPM	1.54 GPM	1.76 GPM	1.91 GPM

The number under each color in the chart below represents the **average ounces of chemical which will pass through the tip per minute.**

METERING TIP SELECTION IN OUNCES PER MINUTE (AVERAGE)																				
Color	Brown	Clear	Bright Purple	White	Pink	Corn Yellow	Dark Green	Orange	Gray	Light Green	Medium Green	Clear Pink	Yellow Green	Burgundy	Pale Pink	Light Blue	Dark Purple	Navy Blue	Clear Aqua	Black
Thin Chemical	0.84	1.16	1.4	2.0	2.7	3.4	4.0	5.3	6.1	7.0	8.5	9.2	11.2	12.5	12.9	14.2	17.6	21.4	30.2	40.4

1035 / ULTIMATE HOSE DROP STATION COMPLETE - Model # 915130



QTY	CALL #	DESCRIPTION	PART #	QTY	CALL #	DESCRIPTION	PART #
1	1	STRAINER, Y, NPB, 1/2"	150270	1	19	ELBOW, 90°, 1/4"	257358
2	2	NIPPLE, HEX, 1/2"	429693	1	20	NIPPLE, SS, 1/4" x 4"	429709
1	3	TEE, ST., 1/2"	692500	1	21	BALL VALVE, 1/4" FFL	413603
1	4	BALL VALVE, NPB, 1/2" FF(A)	413630	1	22	NEEDLE VALVE, 1/4"	660797
3	5	BUSHING, 3/4" x 1/2"	305225	1	23	NIPPLE, HEX, 1/4"	429686
1	6	INJECTOR BODY, 1035	385035	1	24	REGULATOR, AIR, 1/4"	288360
2	7	QUICK DISCONNECT, MALE PLUG, 1/2"	350459	1	25	HOSE, AIR, 1/2" x 24"	195182
1	8	QUICK DISCONNECT, SOCKET, 1/2"	350455	1	26	U-BOLT ASSEMBLY, # 6 SQUARE	392486
2	9	ELBOW, ST., POLY, 1/4"	257379	1	27	U-BOLT ASSEMBLY, # 8 SQUARE	392498
2	10	CHECK VALVE, SOL., VITON BALL, 1/4"	491311	1	28	PLATE, # 8 U-BOLT	398500
1	11	METERING TIPS, SET (20)	443798	2	29	WASHER, 1/4" SS FLAT	398960
2	12	TUBE, CHEMICAL, 1/4" x 6'	474745	1	30	SADDLE BRACKET ASSEMBLY	227114
2	13	STRAINER, CHEMICAL, HASTELLOY, 1/4"	150115	4	31	SADDLE PLATE, SS	227115
1	14	NIPPLE, SS, 1/2" x 4"	429831	1	32	BASE & COVER, R/F, S/F	222114
1	15	ELBOW, ST., 1/2"	257383	1	33	NOZZLE, 1/2" - 50250	180152
2	16	BALL VALVE, NPB, 1/2", FM(A)	413641	1	34	HOSE, 3/4" x 50', 1/2" MPT BOTH ENDS	801242B
1	17	FOAMER BODY, ULTIMATE (HDS)	212055	1	35	WAND, POLY, FOAM/SANITIZE	536603
1	18	CHECK VALVE, AIR, SS, 1/4"	491306				

TROUBLE SHOOTING GUIDE

for
1035 / ULTIMATE HOSE DROP STATION

PROBLEMS WITH FOAMER	POSSIBLE CAUSE / SOLUTION																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A) Foamer will not draw chemical.	•			•		•	•	•	•	•	•		•	•	•	•				•
B) Foam surges and/or hose "bucks."	•	•	•	•		•	•	•	•		•	•	•	•	•	•		•		•
C) Foam output too wet.		•	•	•	•	•	•	•	•		•	•	•	•	•	•		•		•
D) Foam output too dry.	•			•														•		
E) Water flowing into chemical container.										•										
F) Foam does not clean properly.												•						•	•	
G) Water/chemical backing up into air line.					•															

PROBLEMS WITH SANITIZER	POSSIBLE CAUSE / SOLUTION																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A) Sanitizer will not draw chemical.						•	•	•	•	•	•		•	•	•	•				•
B) Water flowing into chemical container.										•										
C) Chemical concentration too rich.																		•		
D) Chemical concentration too lean.						•													•	

POSSIBLE CAUSE / SOLUTION

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Air pressure/volume too high for available water pressure – Slightly adjust needle valve clockwise and/or adjust the air regulator slowly counterclockwise. 2. Use of an oiler on the airline will cause poor foam quality – Use only clean, dry air. 3. Inadequate air supply – Open air inlet valve fully/adjust needle valve counterclockwise and/or air regulator clockwise. 4. Needle valve and/or air regulator clogged or failed – Clean or replace needle valve or air regulator. 5. Air check valve clogged or failed – Clean or replace the air check valve. 6. Water volume too low or pressure fluctuating, or temperature too high – Increase water volume and ensure water supply line is at least 3/4". Install a water regulator to stabilize pressure or decrease water temperature. 7. Foam/sanitize hose too long or wrong size or kinked; must be 3/4" I.D. – For pressure below 65 PSI, 50' is maximum length recommended; for pressures over 65 PSI, 75' is the maximum. Straighten hose. 8. Nozzle size too small – Must be a 50250 nozzle. 9. Water inlet and discharge ball valves not completely open – Completely open the water and discharge ball valves. | <ol style="list-style-type: none"> 10. Solution check valve clogged or failed – Clean or replace solution check valve. 11. "Y" strainer element clogged – Clean the water strainer element. (See diagram, page 3.) 12. Improper chemical – Ensure product is recommended for foaming and/or the application. 13. Chemical tube not immersed in chemical or chemical depleted – Immerse tube or replenish. 14. Chemical strainer or metering tip blocked – Clean or replace chemical strainer and/or tip. 15. Chemical tube stretched out where tube slides over check valve or pin hole/cut in chemical tube – Cut approximately 1/2" off end of tube or replace tube. 16. Vacuum leak in chemical pick-up assembly – Tighten the connection(s). 17. Chemical to water ratio too high – Install smaller tip. 18. Chemical to water ratio too low – Install larger tip. 19. Soil has hardened on surface – Reapplication may be necessary. Always rinse foam before it dries. 20. Water scale or chemical build-up may have formed in the foamer body or injector body causing poor pick-up – To descale, carefully remove body and soak <i>entire</i> foamer or injector body in descaling acid. |
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