

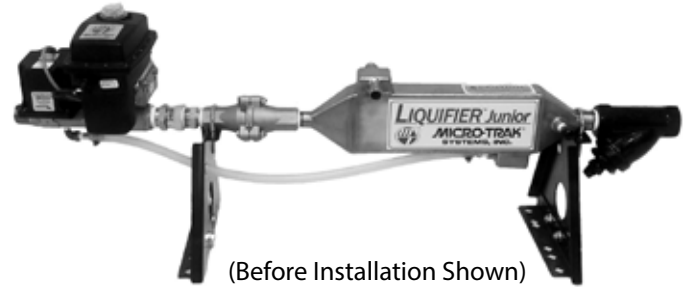


Liquifier Junior Upgrade Kit - P/N 19609

Overview

This upgrade kit improves the cooling efficiency and stability of the Liquifier Junior system.

The upgrade removes the servo body return outlet, adds a fitting assembly to the main outlet, and replaces the orifice hose barb on the heat exchanger with a standard (unrestricted) hose barb. The orifice hose barb on the heat exchanger is moved to the new fitting assembly on the main outlet. Finally, a new longer section of tubing joins the new outlet fitting assembly to the new hose barb fitting on the heat exchanger.



INSTALLATION NOTE: It is recommended to use an NH₃ compatible thread sealing compound on all pipe thread fittings.

WARNING!!

Ammonia is an irritant and corrosive to the skin, eyes, respiratory tract and mucous membranes. Exposure to liquid or rapidly expanding gases may cause severe chemical burns and frostbite to the eyes, lungs and skin. Skin and respiratory related diseases could be aggravated by exposure.

Follow special protection and procedure methods for hazardous materials, including protective equipment, eye protection, respiratory protection, and ventilation.

Parts List

Part	Qty.	Description
1	2	Hose Clamp, #4 Stainless Steel
2	1	Plug, 1/8" Square Head, Stainless Steel
3	1	Elbow, 1/4" Street 90D Black
4	1	Hose Barb, A-1132 1/4" MPT x 3/8" HB
5	1	TEE, 1" x 1" x 1" Black Sch. 40
6	1	Bushing, 1" x 1/4" Red. Black Sch. 40
7	1	Tubing, 3/8" ID EVA

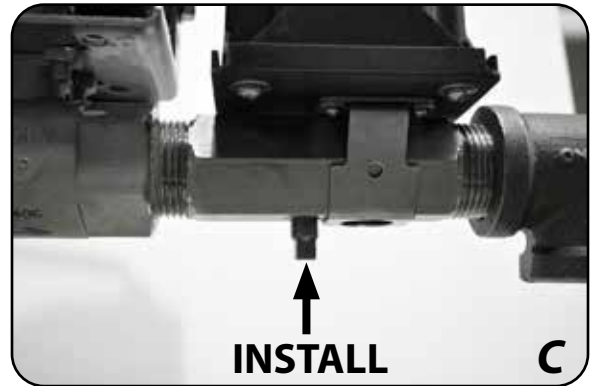
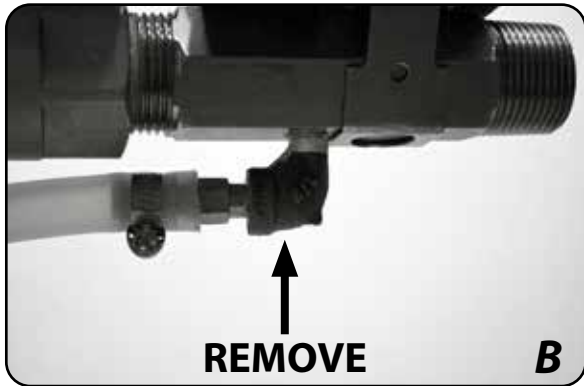
Step 1

1. Make certain all special protection and procedure methods are in place. If the Liquifier Junior has already been used for NH₃ application, be sure to install kit in a well-ventilated area.
2. Release hose clamp and remove clear tubing and hose clamp from hose barb on bottom of heat exchanger body. (Tubing will not be re-used.)
3. Remove existing 1/4" MPT x 3/8" orifice hose barb.
Do not discard - this fitting will be needed in Step 3. See photo **A** at right.
4. Install new 1/4" MPT x 3/8" hosebarb fitting (Part #4) supplied in kit.



Step 2

1. Release hose clamp, remove and discard clear tubing, and remove and discard threaded elbow fitting and hose barb from bottom of servo control valve body. See photo **B** below.
2. Install new 1/8" plug (Part #2) supplied in kit. See photo **C** at right.



Step 3

1. Install 1" x 1" x 1" TEE (Part #5), 1" x 1/4" reducer bushing (Part #6), and 1/4" elbow (Part #3) included with kit onto output side of servo valve. See photo **D** at right.
2. Install 1/4" MPT x 3/8" orifice hose barb removed from heat exchanger in Step 1 into the 1/4" elbow.
3. Join the the 1/4" MPT x 3/8" orifice hose barb on the fitting assembly to the new 1/4" MPT x 3/8" hose barb on the heat exchanger using the clear 3/8" tubing (Part 7) and 2 hose clamps (Part 1).

