

**A-4000-158 Condensate Filter Kit for
Johnson Controls A-4300 and A-4400 Series
Refrigerated Air Dryers
(With Date Codes Before 9924)**

Kit Includes

- A-4000-156 Condensate Filter with automatic drain
- one bracket
- one 5/8-11 x 1 in. hex-head mounting screw
- one 5/8-11 hex nut
- one 5/8 in. lock washer
- one copper tubing subassembly for 17 and 23 scfm units (**red** marking on tube)
- one copper tubing subassembly for 12 scfm units (no marking on tube)
- one fitting, 3/8 in. flare x 3/8 in. external NPT
- one drain adaptor fitting, 1/8 in. x 1/8 in. internal NPT
- one section of insulation tubing for the condensate filter bowl
- one section of insulation tape (with protective paper) for top of filter

Tools Required

- Open end wrenches or adjustable wrenches
- Teflon tape or pipe dope



CAUTION: **Personal Injury Hazard.** The service bypass valve must be placed in the bypass position or air pressure must be removed from the unit before proceeding with filter replacement.

Removing the Existing Condensate Filter (See Figure 1.)

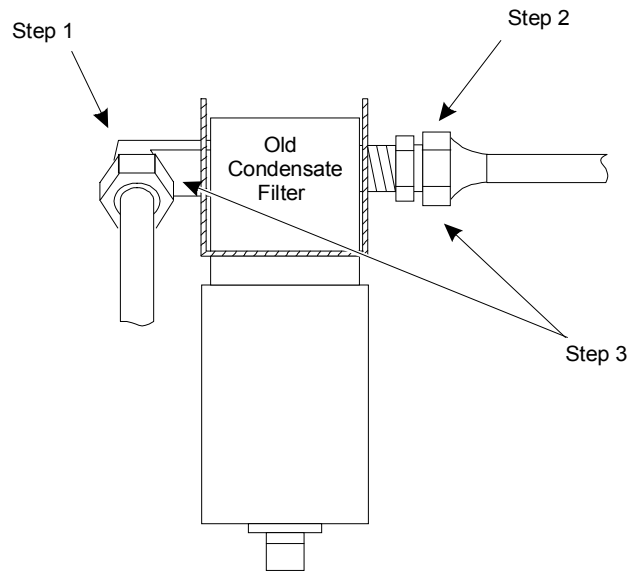


Figure 1: Removing the Existing Condensate Filter

To remove the existing condensate filter:

1. Remove the copper tubing from the outlet of the condensate filter on the air dryer. (For units that feature an optional Air Purification System, the copper tubing is connected to the coalescing filter.)
2. Disconnect the inlet tubing to the condensate filter. This tubing leads from the tube-in-tube counterflow evaporator.
3. Remove both the inlet and outlet fittings from the condensate filter, then remove the filter and its associated insulation.

Mounting the New Bracket (See Figures 2 and 3.)

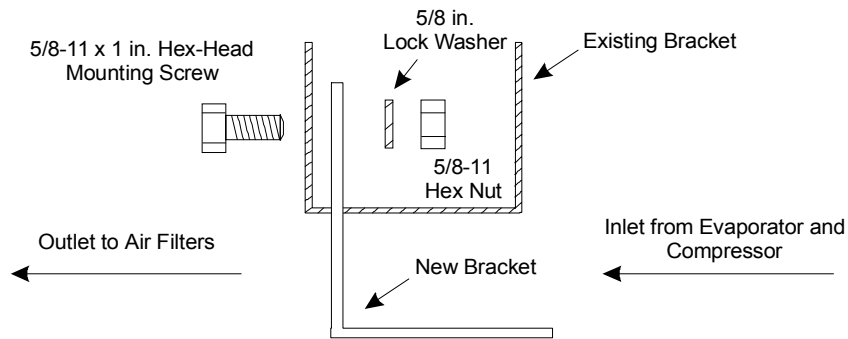


Figure 2: Attaching the New Bracket into the Existing Bracket

To mount the new bracket:

1. The new bracket fits into the large bottom cutout of the existing bracket where the old condensate filter was located. Attach the new bracket to the existing bracket using the mounting hardware provided, in the outlet fitting hole of the existing bracket.

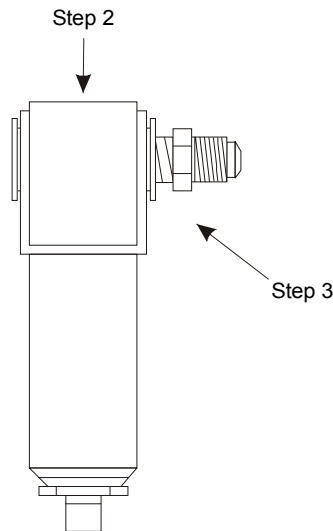


Figure 3: Insulating the New Condensate Filter

2. Leave the paper on the insulation tape furnished with the kit. Wrap the non-papered side of the insulation tape over the top of the new condensate filter, being careful not to block the air fitting ports. Leaving the paper on the insulation tape eases installation into the bracket.
3. Clean the threads of the existing inlet fitting and apply Teflon tape or pipe dope. Install the fitting into the inlet port of the new condensate filter.

Installing the New Condensate Filter (See Figures 4 and 5.)

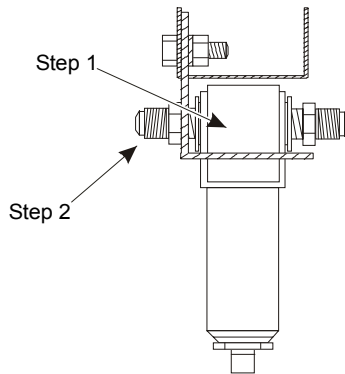


Figure 4: Installing the New Condensate Filter

To install the new condensate filter:

1. Install the new condensate filter into the new bracket. Make certain that the outlet aligns with the hole in the bracket.
2. Install the new 3/8 in. flare x 3/8 in. external NPT fitting supplied with the kit in the outlet of the new condensate filter. Support the bracket while installing the fitting to avoid damaging the bracket.

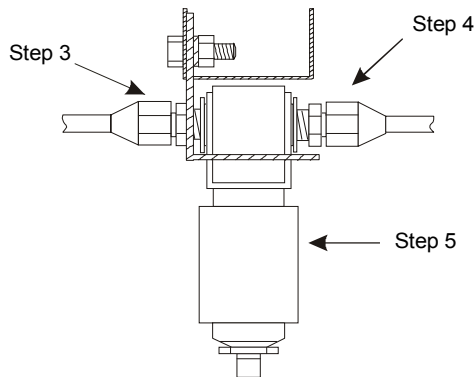


Figure 5: Completing the Installation

3. Install the outlet tube, then install the inlet tube. Support the bracket while installing both tubes to avoid damaging the bracket. If the Air Purification System option is present, copper tubing (included with the kit) will be required to connect the new condensate filter to the existing coalescing filter. The tubing with the red marking is for 17 and 23 scfm units, and the tubing without any markings is for 12 scfm units.
4. Attach the tube from the evaporator to the inlet of the filter.
5. Install the insulation tubing over the new condensate filter bowl.