

MODEL CFRK01

INSTALLATION INSTRUCTIONS FOR COUNTERFLOW FILTER RACK KIT

DESCRIPTION

This filter rack kit is designed for use with Amana Air Command 80 and Air Command 90 counterflow gas furnaces. This kit consists of the filter rack and this installation instruction.

! RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION



WARNING

To avoid electrical shock, injury or death, disconnect electrical power before installing this kit.



CAUTION

To avoid personal injury, use only blunt pointed screws to attach the plenum to the furnace and filter rack. Do not locate screws where they could interfere with filter replacement.

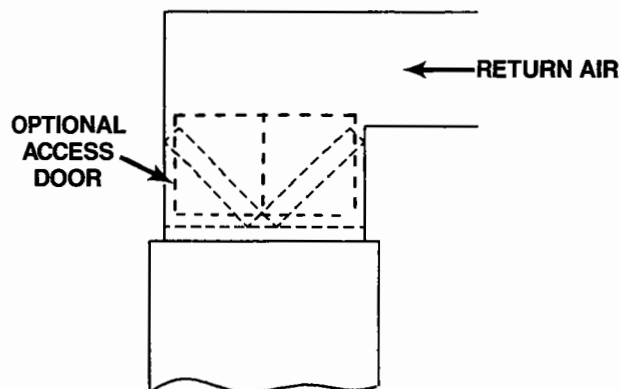


FIG. 1

NOTE: For easier filter inspection and replacement, the installer may wish to consider providing a removable panel in the front of the return air plenum.

I. INSTALLATION

TO INSTALL THE FILTER RACK, PROCEED AS FOLLOWS:

1. Install the filter rack by centering it over the plenum flange and pushing down firmly. (See Figure 2.) Do not screw into place yet, as the return air plenum will need to be attached.



FIG. 2
FURNACE-MOUNTED FILTER RACK

2. Install the return air plenum on the furnace. For proper filter performance, the sides of the return air plenum must be sized to match the return air opening of the furnace and must meet or exceed the minimum height of dimension 'A' shown in Fig. 3. Secure the plenum and filter rack to the furnace so the filter rack cannot be dislodged from its proper position.

IMPORTANT: LEAVE THIS BOOKLET WITH THE BUILDING OWNER.

THE INSTALLATION OF THIS KIT SHOULD BE PERFORMED ONLY
BY QUALIFIED, EXPERIENCED TECHNICIANS.

Due to our policy of continual product improvement, the right is reserved to change specifications and design without notice.

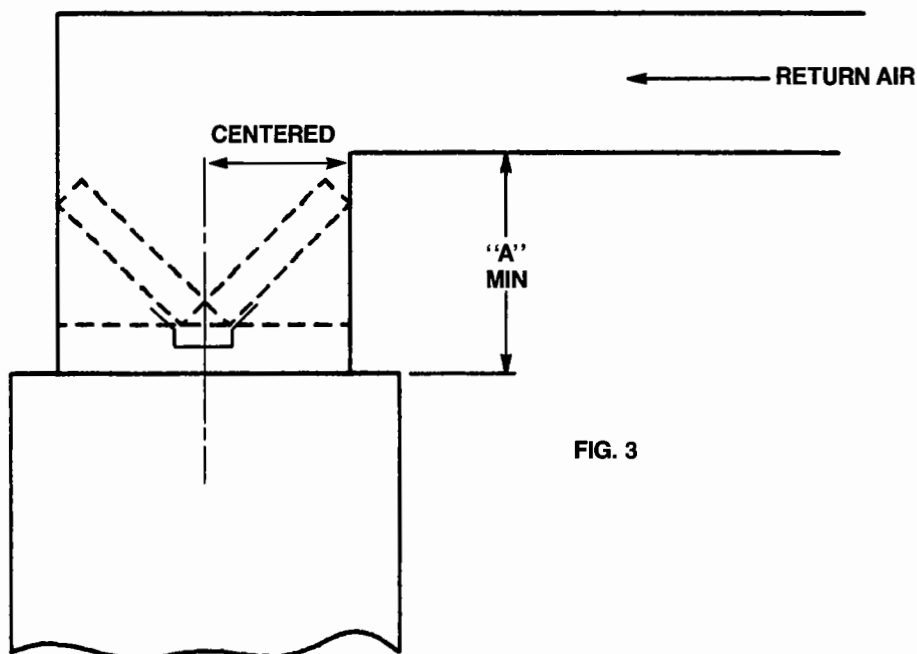


FIG. 3

FILTER CHART

FURNACE MODEL	FILTERS								
	DISPOSABLE — A/C & HTG			DISPOSABLE — HTG ONLY			PERM — A/C & HTG		
	DIM "A"	SIZE	QTY	DIM "A"	SIZE	QTY	DIM "A"	SIZE	QTY
GCN45A30	13.00	14 × 20 × 1	2	10.75	12 × 20 × 1	2	—	—	—
GCC045_30_									
GCN70A30	11.75	14 × 20 × 1	2	11.75	14 × 20 × 1	2	—	—	—
GCC070_30_									
GCN70A40	19.00	10 × 20 × 1	4	19.00	10 × 20 × 1	4	13.00	15 × 20 × 1	2
GCC070_40_									
GCN90A40	18.00	10 × 20 × 1	4	18.00	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCC090_40_									
GCN90A50	23.00	10 × 24 × 1	4	18.00	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCC090_50_									
GCN115A40	23.00	10 × 24 × 1	4	18.00	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCN115A50	23.00	10 × 24 × 1	4	18.00	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCC115_50_									
GCI45A25_	10.75	12 × 20 × 1	2	8.25	10 × 20 × 1	2	—	—	—
GCI045_25_									
GCI70A30_	13.00	14 × 20 × 1	2	10.75	12 × 20 × 1	2	—	—	—
GCI070_30_									
GCI70A40_	18.75	10 × 20 × 1	4	10.75	12 × 20 × 1	2	8.25	10 × 20 × 1	2
GCI070_40_									
GCI90A30_	11.75	14 × 20 × 1	2	11.75	14 × 20 × 1	2	—	—	—
GCI090_30_									
GCI90A50_	22.25	10 × 24 × 1	4	14.00	16 × 20 × 1	2	13.00	15 × 20 × 1	2
GCI090_50_									
GCI115_35_	16.25	10 × 20 × 1	4	16.25	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCI115_50_	21.25	10 × 24 × 1	4	16.25	10 × 20 × 1	4	11.25	15 × 20 × 1	2
GCI140_50_	21.25	10 × 24 × 1	4	16.25	10 × 20 × 1	4	11.25	15 × 20 × 1	2

NOTES: 1. All dimensions and filter sizes shown are in inches.

2. The Amana part numbers for the permanent filters are:

15 × 20 × 1 = C48556-25

10 × 20 × 1 = C48556-26

3. A/C & HTG sizes are based upon high speed blower operation at .50" ESP. HTG ONLY sizes are based upon a CFM — which will produce a temperature rise approximately halfway between the minimum and maximum allowable.

II. FILTERS



WARNING

Never operate furnace without a filter installed as dust and lint will build up on internal parts resulting in loss of efficiency, equipment damage and possible fire.

A. INITIAL FILTER INSTALLATION

Choose the correct size and type of filter appropriate for your furnace from the Filter Chart. If a permanent filter is used, both sides should be sprayed with a filter adhesive as is recommended on the adhesive container. Many hardware stores stock spray adhesives for use with permanent filters. If your installation does not have the optional access doors as shown in Fig. 1, proceed as follows:

1. Disconnect the electrical power.
2. Remove the blower door from the furnace by turning the two latches $\frac{1}{4}$ turn, and lifting the door off.
3. **MAKE CERTAIN THE AIR-FLOW DIRECTION ARROW POINTS TOWARDS THE FURNACE.** Then insert the filters from the left side of the blower. Starting with the right filter, push the filter into the plenum so that the bottom of the filter rests in the filter rack and the upper edge rests against the side of the plenum. Repeat with the left filter. See Fig. 4.

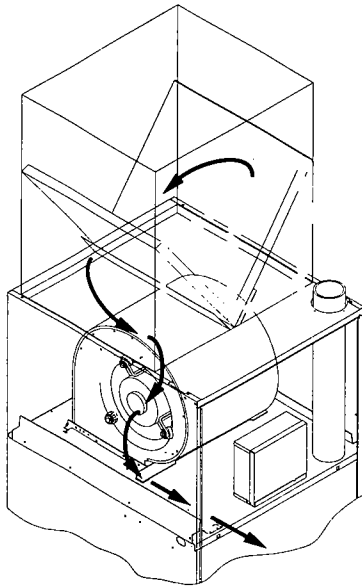


FIG. 4
FURNACE-MOUNTED FILTER RACK

4. Replace the blower door, then reconnect the electrical power.



WARNING

To avoid electrical shock, injury or death, disconnect electrical power before performing any maintenance.

B. FILTER CLEANING/CHANGING

The filters should be inspected frequently and cleaned or replaced when necessary. Remember that dirty filters are the most common cause of inadequate heating or cooling performance. If your installation does not have the optional access doors as shown in Fig. 1, proceed as follows:

1. Disconnect the electrical power.
2. Remove the blower door from the furnace by turning the two latches $\frac{1}{4}$ turn, and lifting the door off.
3. Remove the left filter by reaching to the left side of the blower, pushing the filter up slightly to remove it from the filter rack, and pulling it down to the left of the blower and out the blower door. Repeat with the right filter.
- 4a. If you are using disposable filters, discard the old ones and replace with new filters of the same size.
- 4b. If you are using permanent filters, wash, rinse and dry each filter. Check to make sure they are not torn. If badly torn or uncleanable, replace them. If useable, spray both sides with a filter adhesive as recommended on the adhesive container. Under normal use, these permanent filters should last several years.
5. To reinstall the filters, first **MAKE CERTAIN THE AIR-FLOW DIRECTION ARROW POINTS TOWARDS THE FURNACE.** Then insert the filters from the left side of the blower. Starting with the right filter, push the filter into the plenum so that the bottom of the filter rests in the filter rack and the upper edge rests against the side of the plenum. Repeat with the left filter. See Fig. 4.
6. Replace the blower door, then reconnect the electrical power.

