

Two-Position Damper Accessory Single Package Rooftop Units 15 to 25 Tons

Installation Instructions

Part No. CRTWOPOS012A00 and CRTWOPOS013A00

IMPORTANT: Read these instructions completely before attempting to install the accessory two-position damper. The two-position damper is used on the following units:

UNIT SIZE	PART NUMBER
15 TO 20 TONS	CRTWOPOS012A00
25 TON	CRTWOPOS013A00

PACKAGE CONTENTS

QTY	ITEM
1	Upper end panel with damper
4	Hood angles
2	Hood side plates
1	Hood top
4	Outdoor air screens
2	Hood side filter supports
2	Hood side drip angles
2	Hood top diverters
60	Screws

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform basic maintenance functions of cleaning coils and filters and replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguisher available for all brazing operations.

It is important to recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices, which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

DANGER

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury and/or death.

Disconnect power supply and install lockout tag before attempting to install the accessory.

GENERAL

Use the accessory two-position damper on units without economizers. The two-position damper accessory will replace the manual damper system or can be installed on units with no outdoor-air intake. It can be used on vertical or horizontal applications.

The two-position damper accessory allows the unit to control the outside-air dampers. The damper opens when the indoor fan is operating and closes when the indoor fan is off. The two-position damper does not modulate; it is either open or closed.

INSTALLATION

These 2 position dampers are designed to work in both a vertical and horizontal application. The instructions are the same for both.

1. Turn off power and install lockout tag on unit.
2. Remove the upper-end panel shipped on the HVAC unit. (See Fig. 1.) The return air chamber of the unit will be exposed. Save the screws for later use. The upper-end panel can be discarded. The bottom panel remains in its shipping position.

CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in personal injury and damage to unit.

Cover the duct opening as a precaution so objects cannot fall into the return duct opening. Be sure to remove the cover when installation is complete.

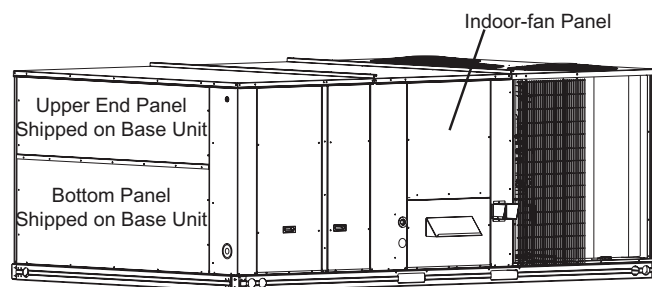


Fig. 1 — Upper and Bottom Panel on End of Unit

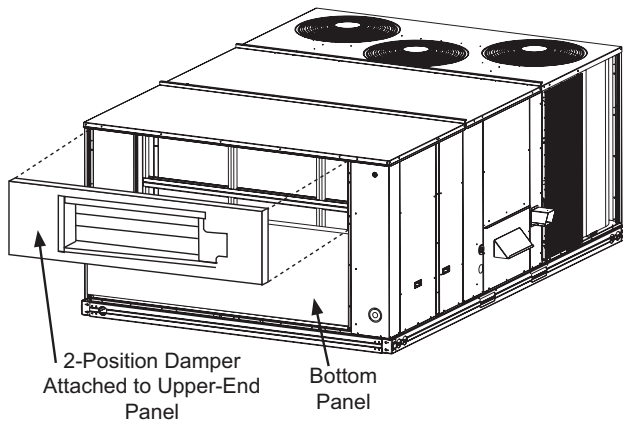


Fig. 2 — Upper End Panel with Damper Attached

3. Lift the provided upper-end panel with damper attached in place over the top of the bottom panel. (See Fig. 2.) Do not secure in place yet.
4. Remove and save the 12-pin jumper plug from the unit wiring harness. Insert the harness from the 2-position damper plug into the unit wiring harness plug. (See Fig. 3.)

NOTE: The 12-pin jumper plug should be saved for future use in the event that the 2-position damper is removed from the unit. The jumper plug is not needed as long as the 2-position damper is installed.

5. Screw the upper-end panel with the damper attached, in place on the HVAC unit. (See Fig. 4.)

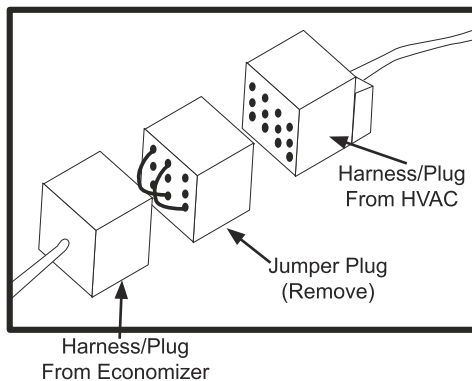


Fig. 3 — Unit Wiring Harness Plug

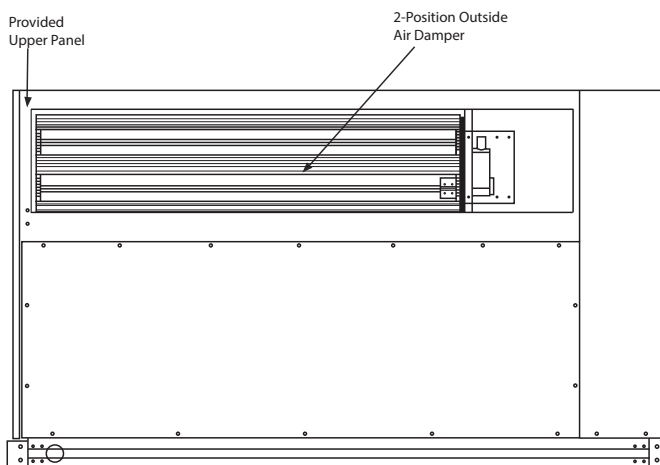
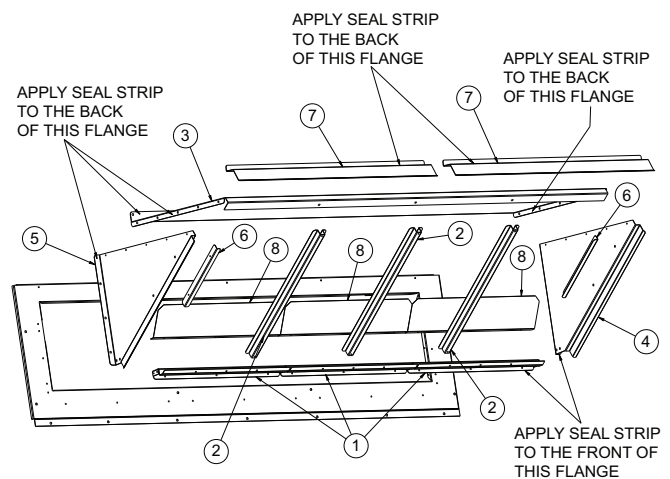


Fig. 4 — Upper End Panel with Damper attached

6. Assemble the outside air hood per Fig. 5-7.

7. To assemble the outside air hood (see Fig. 5 for hood component locations and item numbers):
 - a. Remove hood top panel from shipping position on unit end.
 - b. Install filters supports (Item #1) to the upper end panel using the screws provided.
 - c. Install each deflector (Item #8) on to each filter support (Item #1) using the screws provided.
 - d. Apply seal strip to mating flanges on side plates of hood (Items #4 and #5).
 - e. Secure side panels (Items #4 and #5) to upper panel using the screws provided.
 - f. Apply seal strip to mating flange of the hood (see Fig. 5).
 - g. Secure hood top (Item #3) to upper panel using the screws provided. (On 44-in. chassis, remove the screws from across top cover of unit. The rear flange of hood top will slide behind unit top over flange.)
 - h. Secure side retainers (Item #6) to side panels (Items #4 and #5) using the screws provided, screwing from outside of the hood.
 - i. Secure each central retainer (Item #2) to the hood top (Item #3). Then align central retainers to holes located on filter support (Item #1), so central retainer is perpendicular to hood and each filter support. Secure using screws provided.
 - j. Apply seal strip to top diverters (Item #7).
 - k. Secure top diverters (Item #7) to hood top (Item #3).
 - l. Install outdoor air screens by sliding them into each of the four spaces created by the hood, filter support and central retainers. To do so, first insert the air screens into pocket created at the end of hood (Item #3), then fully put the air screen into place, and then slide them back into pocket created in the filter support (Item #1). Repeat this for each air screen (see Fig. 6). See Fig. 7 for completed hood assembly.



ITEM #	DESCRIPTION	QTY
1	Filter Supports	3
2	Central Retainer	3
3	Hood Top	1
4	Left Hood Side	1
5	Right Hood Side	1
6	Side Retainer	2
7	Top Diverters	2
8	Deflector	3

Fig. 5 — Hood Part Identification and Seal Strip Application Areas

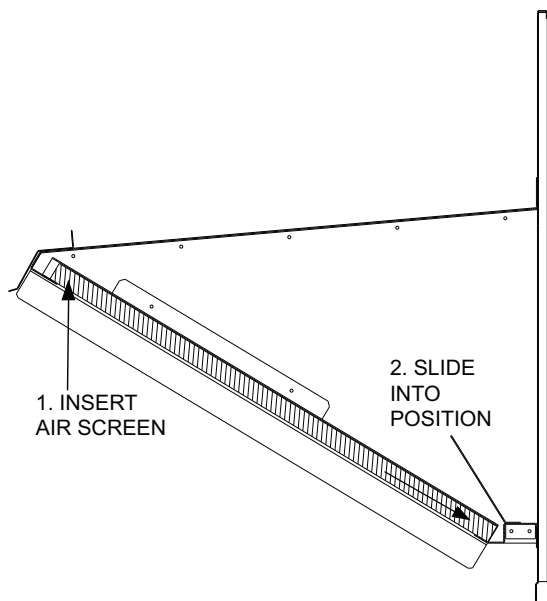


Fig. 6 — Outdoor Air Screen Installation

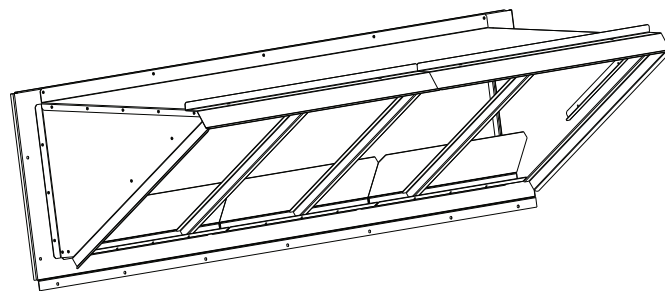


Fig. 7 — Completed Hood Assembly

8. Install the hood assembly on the unit. (See Fig. 8.)
9. Install the hood screens and other approved accessories.

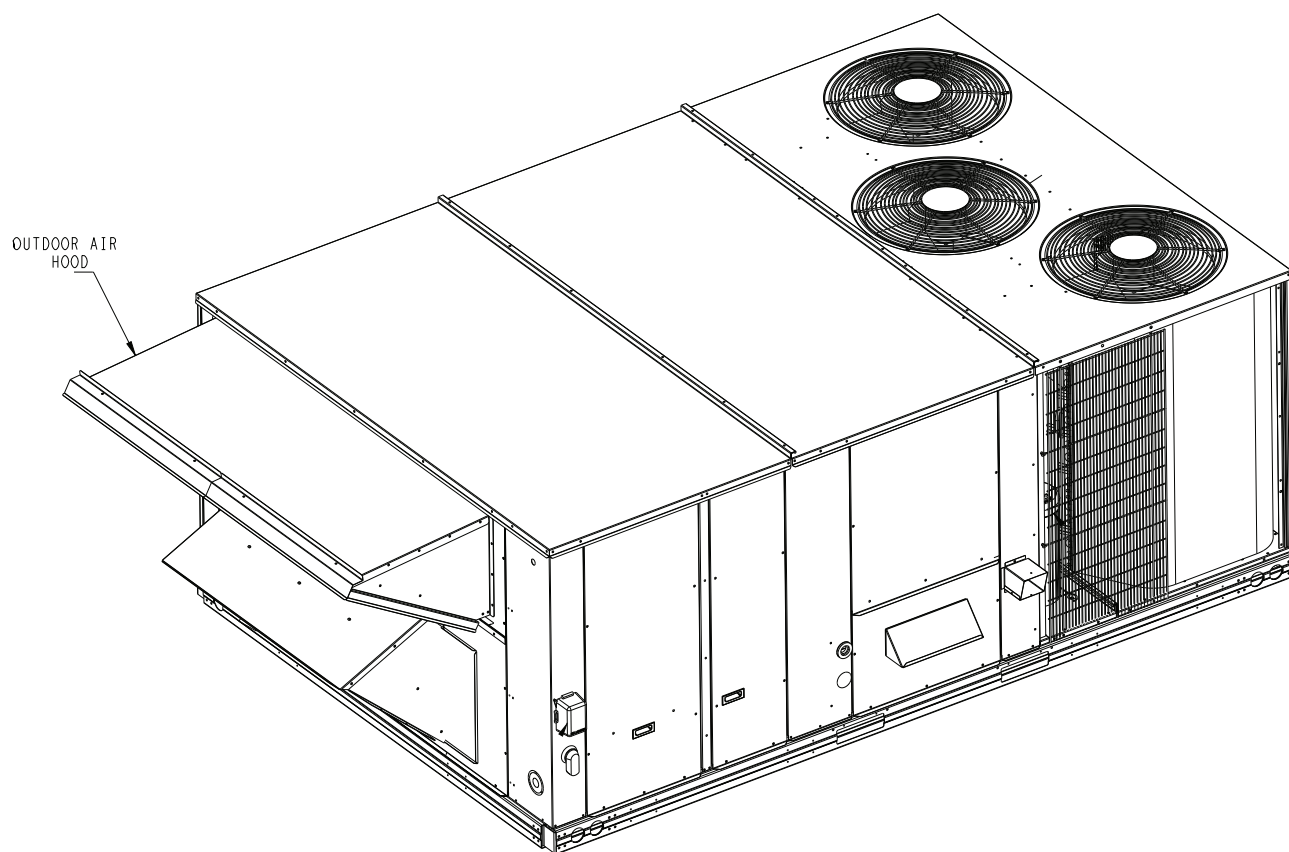


Fig. 8 — Hood Assembly Installed

