Installation Instructions

Part No. CRFLUEDS011A00, CRFLUEDS012A00, and CRFLUEDS013A00

IMPORTANT: Read these instructions completely before attempting to install this accessory.

Table 1 — Package Contents

ACCESSORY PACKAGE NO.	DESCRIPTION	PART NO.	QTY
CRFLUEDS011A00	Duct Assembly	48VV006158	1
	Chimney Assembly	48VV001765	1
	Top Assembly	48VV005411	1
	Flue Vent Connector	48VV006157	1
	Right Support Bracket	48VV001759	2
	Left Support Bracket	48VV001760	2
	Hex Screw	AL48AM217	46
CRFLUEDS012A00	Duct Assembly	48VV006156	1
	Chimney Assembly	48VV001777	1
	Top Assembly	48VV006140	1
	Flue Vent Connector	48VV006157	2
	Right Support Bracket	48VV001759	2
	Left Support Bracket	48VV001760	2
	Hex Screw	AL48AM217	56
CRFLUEDS013A00	Duct Assembly (Dual Inlet)	48VV006156	1
	Chimney Assembly (Dual Inlet)	48VV001777	1
	Top Assembly	48VV006140	2
	Flue Vent Connector	48VV006157	3
	Right Support Bracket (Dual Inlet)	48VV001759	2
	Left Support Bracket (Dual Inlet)	48VV001760	2
	Hex Screw	AL48AM217	104
	Duct Assembly (Single Inlet)	48VV012224	1
	Chimney Assembly (Single Inlet)	48VV001782	1
	Right Support Bracket (Single Inlet)	48VV007319	2
	Left Support Bracket (Single Inlet)	48VV007321	2

Table 2 — Model Usage

ACCESSORY PACKAGE NO.	USAGE
CRFLUEDS011A00	48V 27.5 to 50 Ton (Low Heat)
CRFLUEDS012A00	48V 27.5 to 50 Ton (High Heat) 55 to 100 (Low Heat)
CRFLUEDS013A00	48V 55 to 100 Ton (High Heat)

GENERAL

These installation instruction contain installation information for the applied rooftop unit, 48V series chimney flue accessory. The chimney is installed for better control of exhaust gas flow and to prevent exhaust gas recirculation into the unit. See Table 1 for package contents and Table 2 for model usage.

SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes, the current editions of the National Fuel Gas Code (NFGC) NFPA 54/ANSI Z223.1, and the National Electrical Code (NEC) NFPA 70.

In Canada refer to the current editions of the National Standards of Canada CAN/CSA-B149.1 and .2 Natural Gas and Propane Installation Codes, and Canadian Electrical Code CSA C22.1.

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, and CAUTION. 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.

⚠ WARNING

ELECTRICAL SHOCK HAZARD

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

Before beginning any modification, be certain that the main-line electrical disconnect switch is in the OFF position. Close the main gas supply shutoff valve. Tag disconnect switch and gas valve with suitable warning labels.

⚠ CAUTION

PERSONAL INJURY HAZARD

Failure to follow this caution may result in personal injury.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing air conditioning equipment.

INSTALLATION

The number of openings on the chimney differs based on heat size. Refer to Tables 1 and 2 for package contents and model usage for low and high heat units.

1. Determine the heat capacity of the unit:
   a. For 27.5-35 ton units:
      - 380 mbh is Low Heat
      - 650 mbh is High Heat
   b. For 40-50 ton units:
      - 380 mbh is Low Heat
      - 730 mbh is High Heat
   c. For 55-100 ton units:
      - 730 mbh is Low Heat
      - 1068 mbh is High Heat
2. Ensure the unit is completely powered off and not operational before proceeding with the installation.
3. Remove any shipping covers and unpack all components required for assembly.
4. Assemble the chimney flue assembly, including the flue connector and mounting bracket, using the parts provided in each package. See Fig. 1-3 for specific unit deflector assembly.
5. Depending on the unit's size and heat capacity, remove one, two, or three flue exhaust hoods from the unit. See Fig. 4 for exhaust hood example.
6. Align the flue vent connector of the kit with the unit's flue exhaust opening. See Fig. 5-7 detail views of flue discharge deflector mounting position and installation.
7. Secure the chimney flue kit in place using the screws provided in the kit. See Fig. 8-10 for unit deflector mounting positions.
8. Once installation is complete, restore power to the unit.

IMPORTANT: To guard against leakage, verify there are no unfilled screw holes.

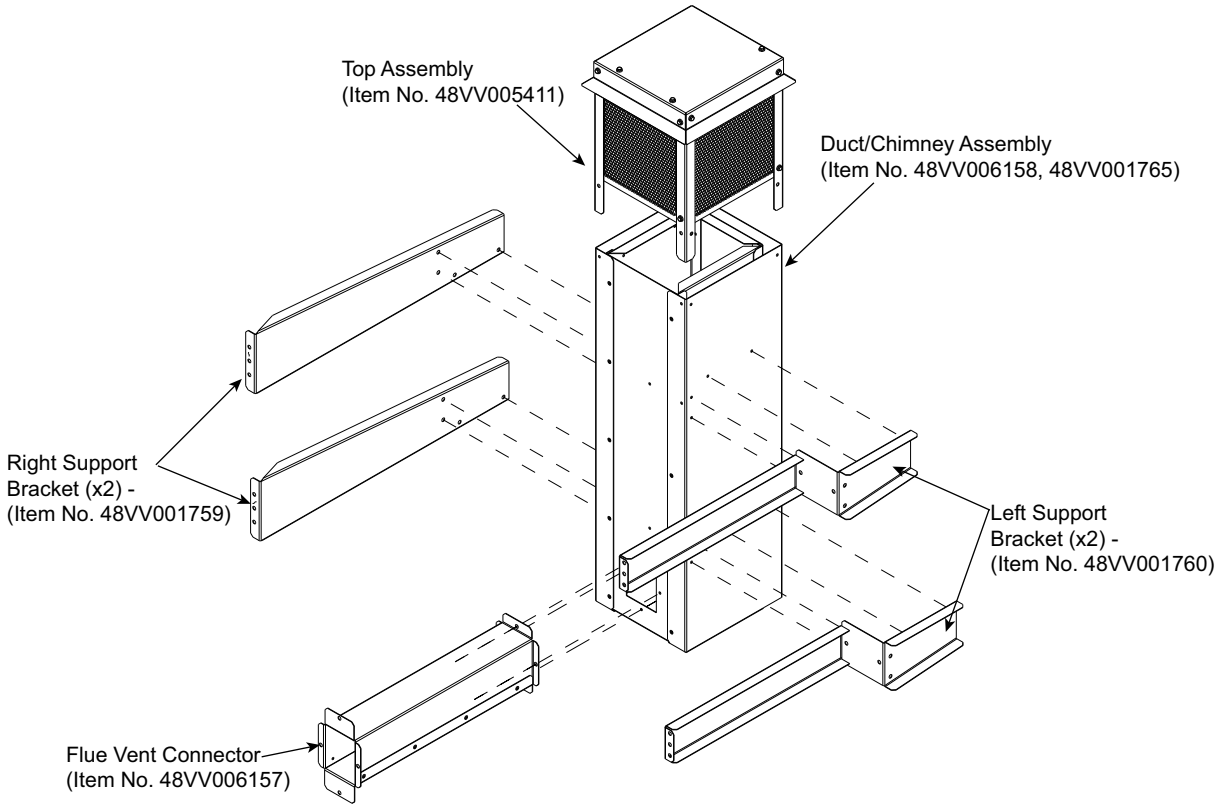

Fig. 1 — Flue Accessory Kit Number CRFLUEDS011A00 (Sizes 27-50 Low Heat)

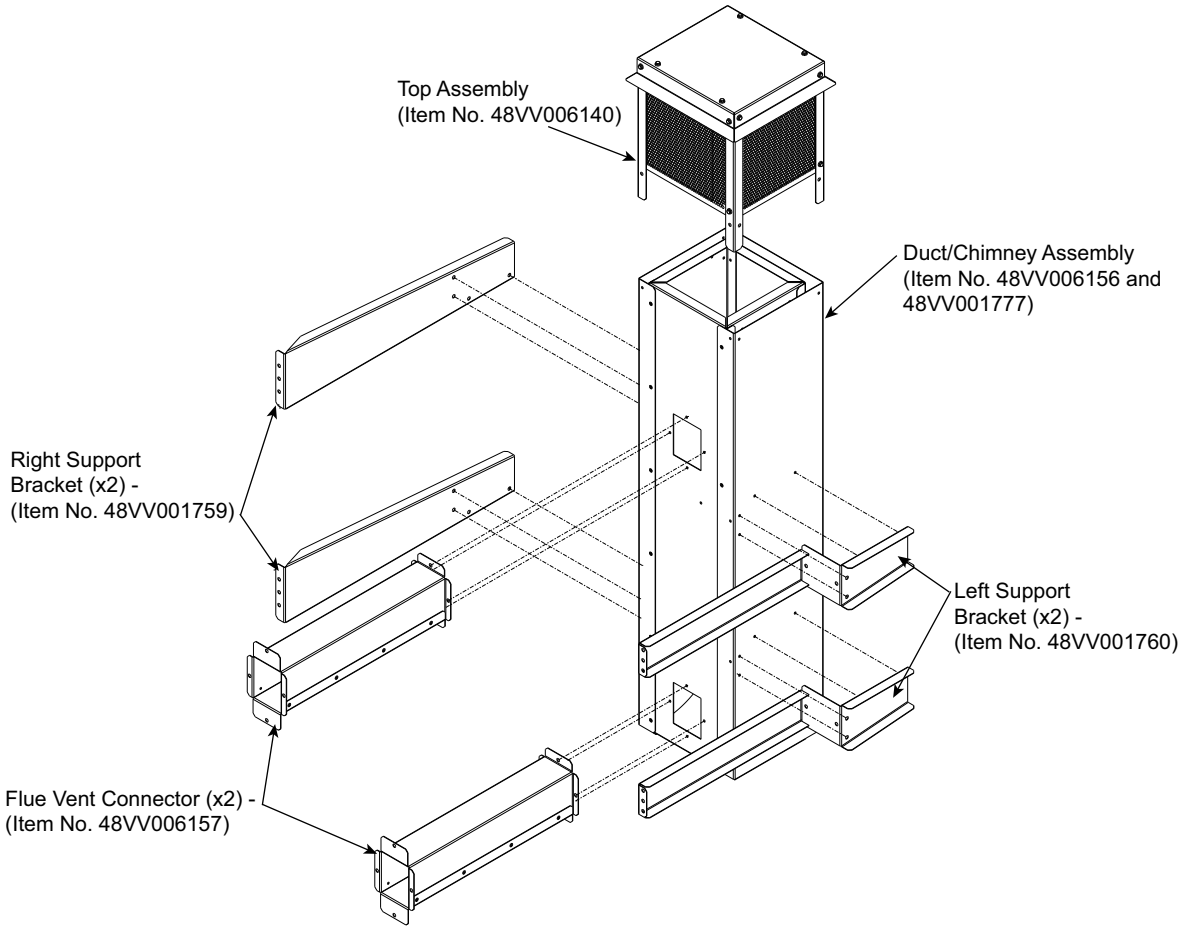

Fig. 2 — Flue Accessory Kit Number CRFLUEDS012A00 (27-50 Ton High Heat, 55-100 Ton Low Heat)

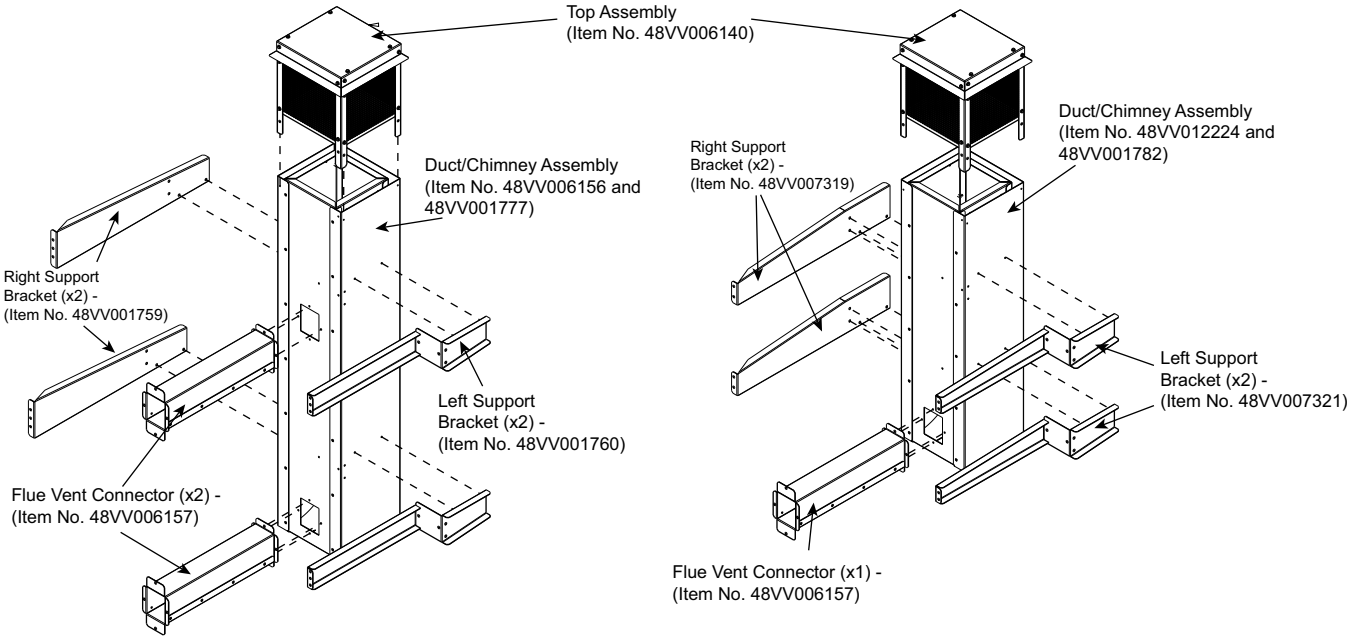

Fig. 3 — Flue Accessory Kit Number CRFLUEDS013A00 (55-100 Ton High Heat)

Fig. 4 — Flue Exhaust Hood

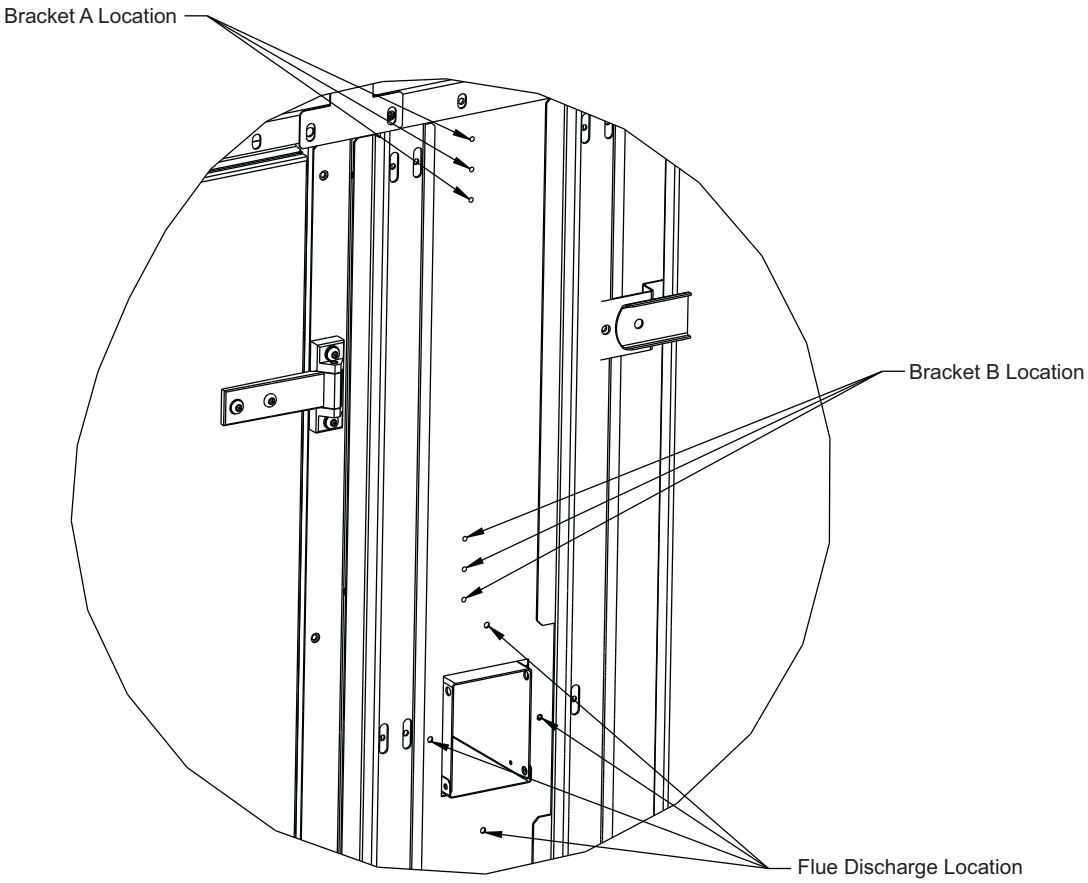

Fig. 5 — Flue Discharge Deflector Mounting Position - 27.5-50 Ton Low Heat (Detail View)

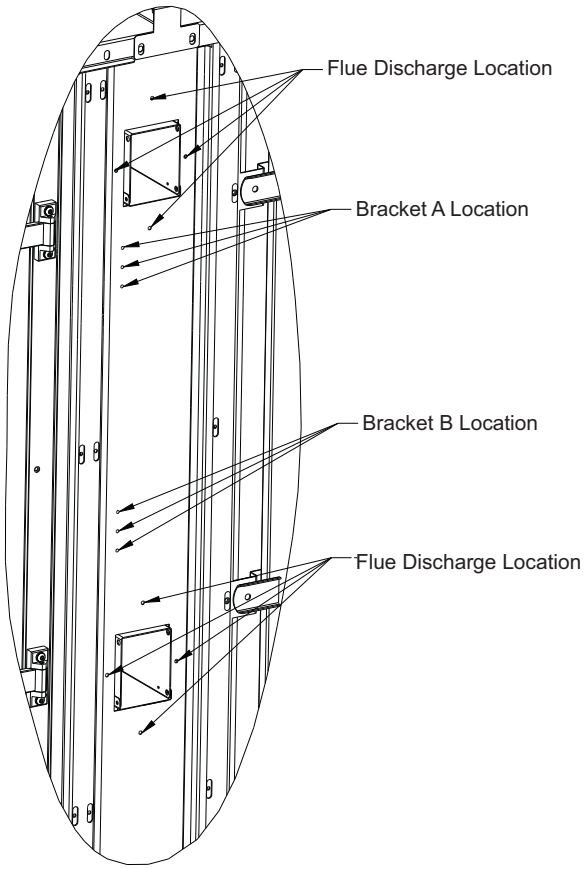

Fig. 6 — Flue Discharge Deflector Mounting Position — 27.5-50 Ton, High Heat and 55-100 Ton, Low Heat (Detail View)

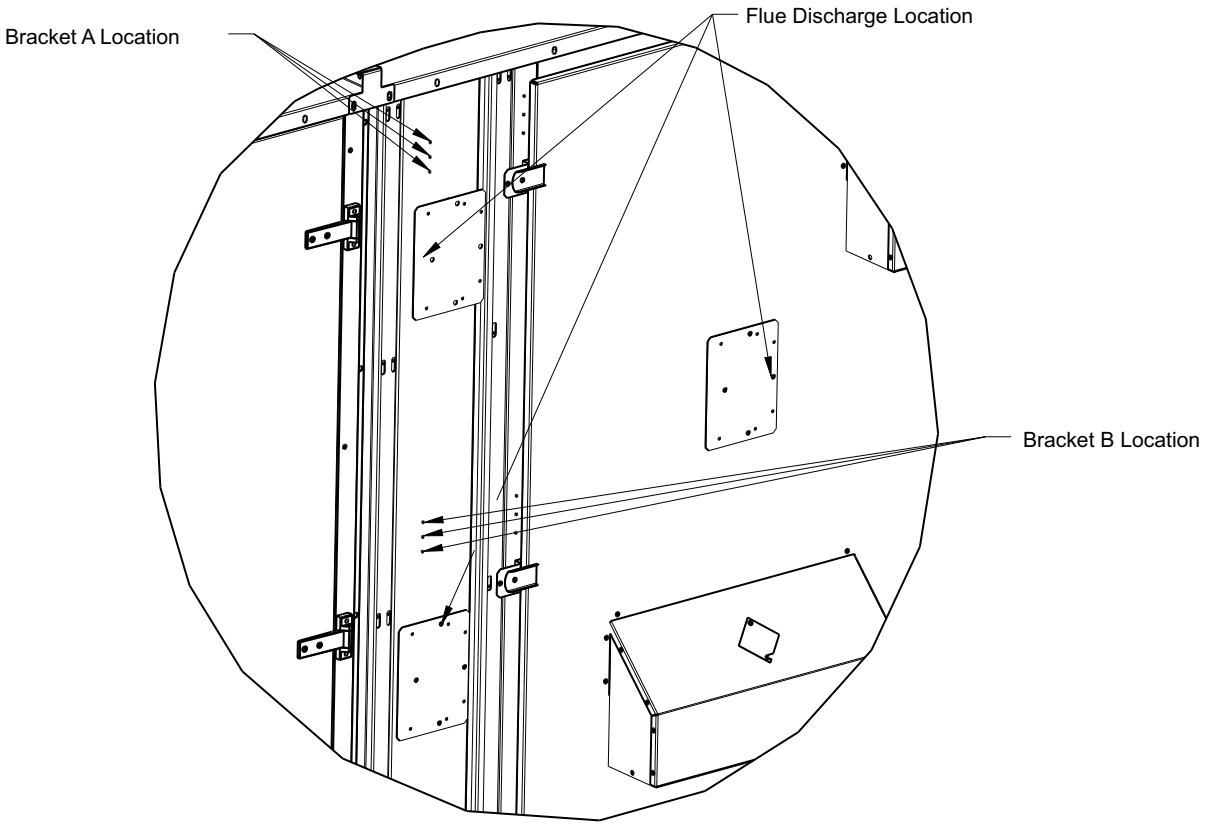

Fig. 7 — Flue Discharge Deflector Mounting Position — High Heat (Detail View)

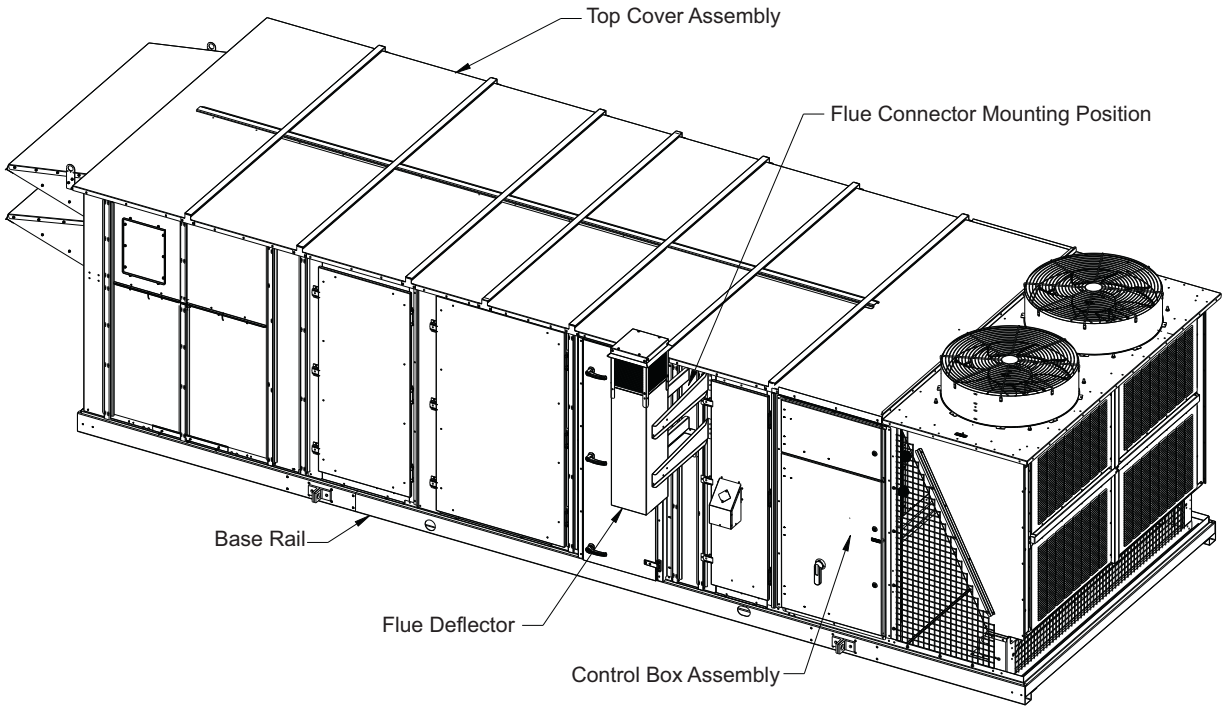

Fig. 8 — Flue Discharge Deflector Mounting Position — 27.5-50 Ton (Low Heat)

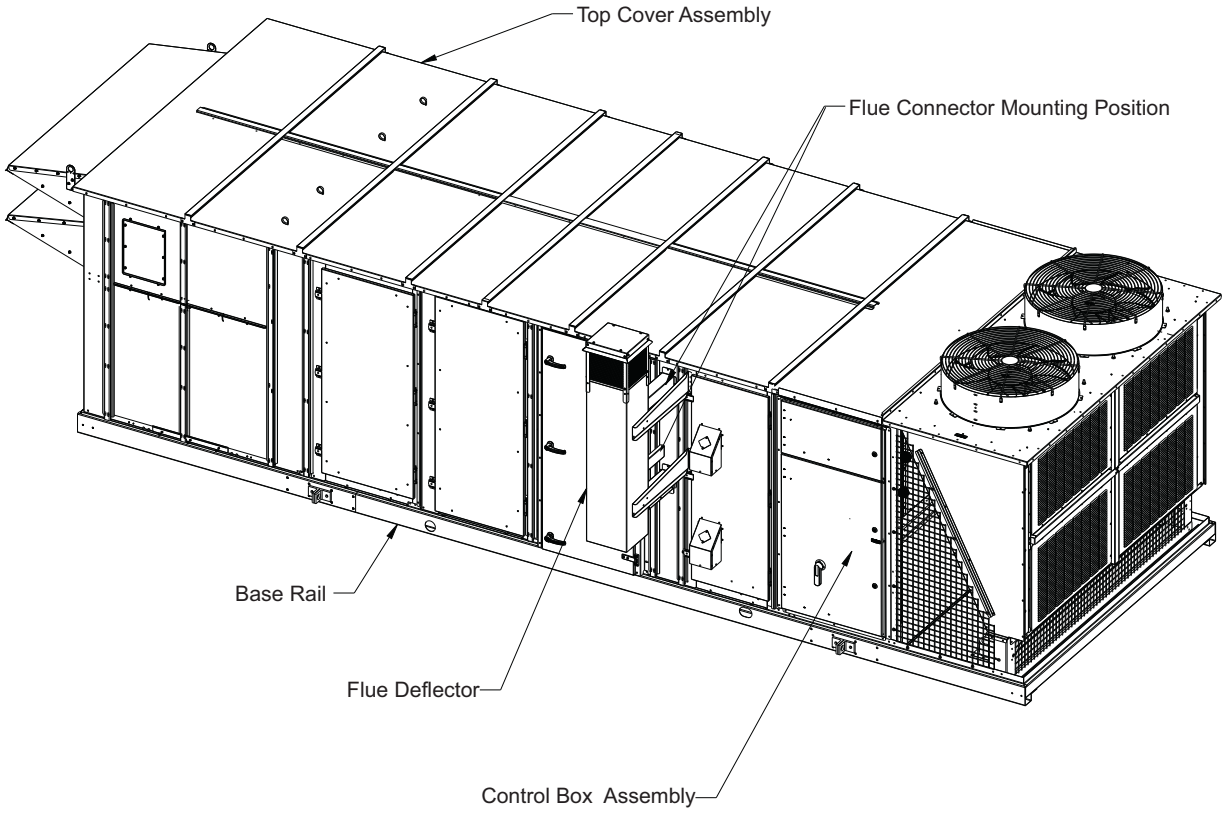

Fig. 9 — Flue Discharge Deflector Mounting Position — 27.5-50 Ton (High Heat) and 55-100 Ton (Low Heat)

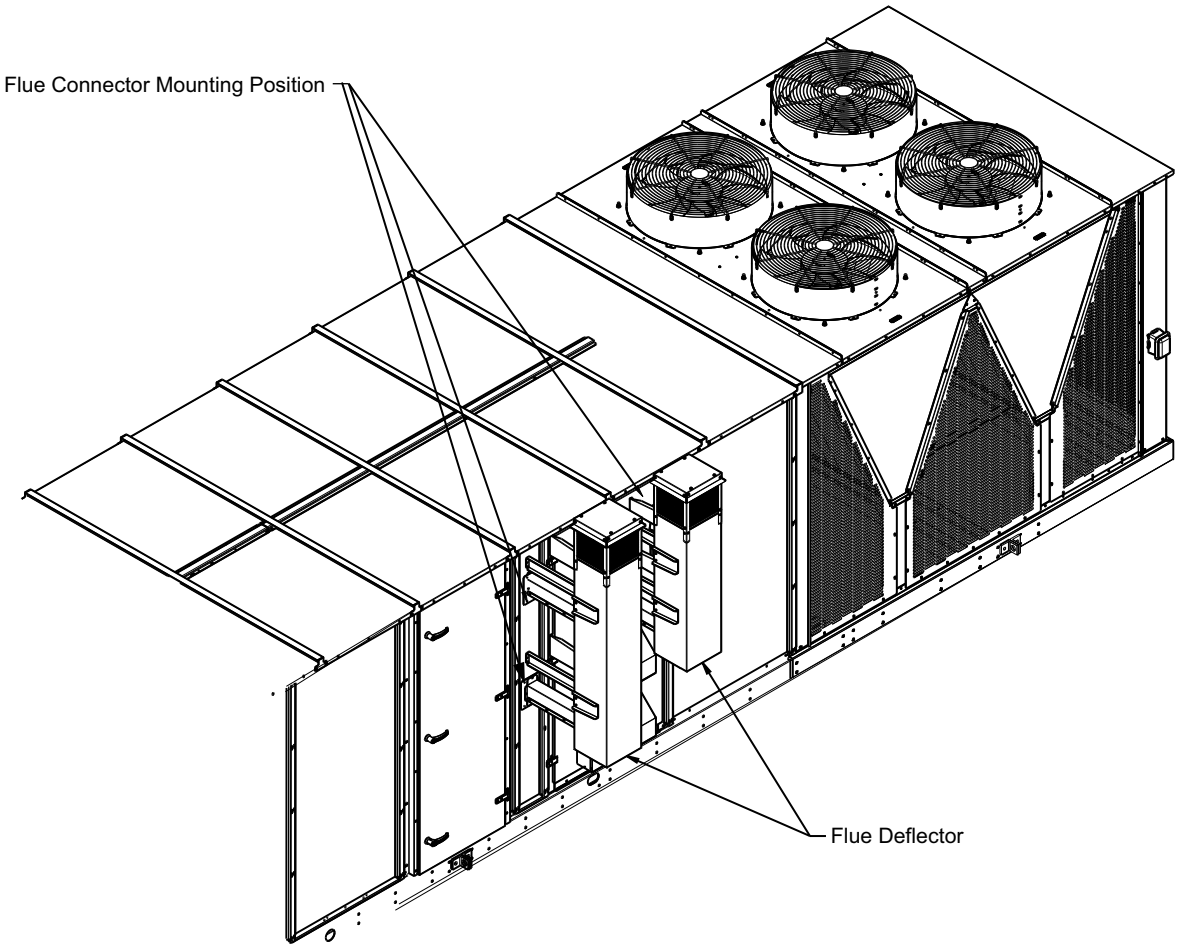

Fig. 10 — Flue Discharge Deflector Mounting Position — 55-100 Ton (High Heat)

MAINTENANCE

Use Steps 1-4 for general maintenance.

1. Inspect screens on bottom chimney piece and on deflector assembly.
2. Remove any debris to ensure proper airflow and heating efficiency.
3. Inspect full length of flue stack for any blockages which could impair flue performance.
4. Inspect every fall, and periodically during heating season.