

ACCESSORY KIT INSTALLATION INSTRUCTIONS

Flue Exhaust Kit

Model 1FE0405 Thru 1FE0410

For Single Package Equipment

Gas/Electric Air Conditioners and Dual Fuel Heat Pumps

SCOPE

These instructions cover the installation of the Flue Exhaust Kit, Model number 1FE0405, 1FE0406, 1FE0407, 1FE0408, 1FE0409 and 1FE0410 on single package rooftop air conditioners or heat pumps, with gas furnace sections, in cooling capacities from 36 through 300 Mbh (3 thru 25 ton). These kits are intended only for installations where due to localized wind or weather conditions, furnace combustion products may enter nearby fresh air intakes, or may recirculate into the combustion air hood and interfere with the combustion air supply.

The elbows, straight pipe and vent cap fittings are B-Vent components for gas appliances. The J-lock ends and roof bracket components create a strong assembly that is semi-permanently secured to the unit cabinet. A split access panel is provided to allow service of the gas controls without removing the Flue Exhaust Kit.

TABLE 1: CONTENTS OF KITS 1FE0405, 1FE0406, 1FE0407 & 1FE0408

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	073-18726-000	PANEL, TOP, GAS HEAT (FOR KIT 1FE0405 ONLY)
1	1	073-18728-001	PANEL, TOP, GAS HEAT (FOR KIT 1FE0406 ONLY)
1	1	073-18728-002	PANEL, TOP, GAS HEAT (FOR KIT 1FE0407 ONLY)
1	1	073-18728-003	PANEL, TOP, GAS HEAT (FOR KIT 1FE0408 ONLY)
2	1	073-18727-000	PANEL, BOTTOM, GAS HEAT (FOR KIT 1FE0405 ONLY)
2	1	073-18729-000	PANEL, BOTTOM, GAS HEAT (FOR KITS 1FE0406, 1FE0407 AND 1FE0408)
3	1	073-18752-000	BRACKET, FLUE STACK
4	1	026-34699-000	COLLAR, START, 6"
5	1	026-34701-000	B-VENT, 90 DEG. EL, 6" ADJ.
6	1	026-34702-000	B-VENT, STR., 6" DIA., 12" LG. (FOR KIT 1FE0405 ONLY)
6	1	026-34704-000	B-VENT, STR., 6" DIA., 24" LG. (FOR KITS 1FE0406, 1FE0407 AND 1FE0408)
7	1	026-34705-000	B-VENT, CAP, 6" DIA.
8	1	026-34706-000	BRACKET, WALL, 6"
9	15	021-16036-000	SCREW, HWH, #10-16 x.625 LG.
10	10	021-15519-000	SCREW, TAP, HWH, #10 x.500 LG.
11	1	035-14868-000	INSTRUCTION, INSTALLATION

TABLE 2: PART NUMBER CONFIGURATION

KIT MODEL NUMBER	UNIT MODEL	COOLING CAPACITY (TONS)	HEATING CAPACITY	
			INPUT (MBH)	OUTPUT (MBH)
1FE0405	N/A	3 TON	50	40
		4 TON	75	60
		3, 5, 6 TON	100	79
		4, 5, 6 TON	125	99
1FE0406	N/A	7.5 TON	163	130
		8.5 TON	204	163
1FE0407	N/A	10 TON	245	198
1FE0408	N/A	12.5 TON	204	163
			245	198
1FE0409	DCG 180, DHG 180, DH 180, DM 180	15 TON	300	240
			400	320
1FE0410	DCG 240, DHG 240, DH 240, DM 240	20 TON	300	240
			400	320
	DCG 300, DM 300	25 TON	300	240
			400	320
	DJ 15, 17.5, 20, 25	15, 17.5, 20, 25 TON	300	240
			400	320

TABLE 3: CONTENTS OF KITS 1FE0409 AND 1FE0410

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	073-18730-001	PANEL, TOP, GAS HEAT (FOR KIT 1FE0409 ONLY)
1	1	073-18730-002	PANEL, TOP, GAS HEAT (FOR KIT 1FE0410 ONLY)
2	1	073-18731-000	PANEL, BOTTOM, GAS HEAT
3	1	073-18751-000	BRACKET, FLUE STACK
4	2	026-34699-000	COLLAR, START, 6"
5	2	026-34700-000	B-VENT, 45 DEG. EL, 6" ADJ.
6	2	026-34701-000	B-VENT, 90 DEG. EL, 6" ADJ.
7	1	026-34702-000	B-VENT, STR., 6" DIA., 12" LG.
8	1	026-34703-000	B-VENT, STR., 6" DIA., 18" LG.
9	2	026-34705-000	B-VENT, CAP, 6" DIA.
10	2	026-34706-000	BRACKET, WALL, 6"
11	20	021-16036-000	SCREW, HWH, #10-16 x.625 LG.
12	20	021-15519-000	SCREW, TAP, HWH, #10 x.500 LG.
13	1	035-14868-000	INSTRUCTION, INSTALLATION

INSTALLATION OF KIT 1FE0405, 1FE0406, 1FE0407 OR 1FE0408

1. DISCONNECT ELECTRICAL POWER AND GAS SUPPLY TO THE UNIT!
2. Remove the existing gas furnace access panel.

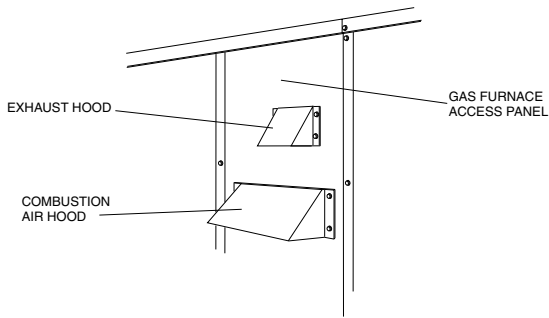


FIGURE 1 : EXISTING GAS FURNACE ACCESS PANEL

NOTE: The small access panel with knockouts can be left in place.

3. Remove the exhaust hood and combustion air hood assembly from the gas furnace access panel. Save the combustion air hood assembly. The panel and exhaust hood may be discarded.
4. Attach the flue stack bracket, (Item 3), to the furnace section roof. Center the bracket directly over the flue opening, with the double-bend flange extending upwards, as shown in Figure 2. Align the two nearest holes (1/4" dia.) with the edge of the furnace roof. **Carefully** drive #10 x.500 long tap screws, (Item 10), into the remaining holes in the bracket. Seal these screws with silicone sealant, or replace them with cabinet-type screws, (Item 9), after the holes are drilled.

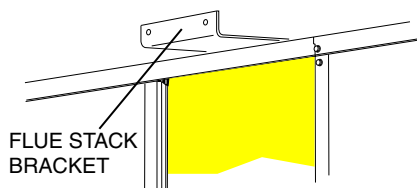


FIGURE 2 : ATTACHING FLUE STACK BRACKET

5. Install the top gas heat panel (Item 1), provided with the Flue Exhaust Kit. See Figure 3. Re-install all panel screws originally provided.

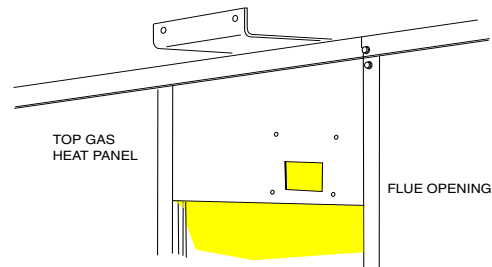


FIGURE 3 : INSTALLED TOP GAS HEAT PANEL

6. Remove the paper backing from the flange of the start collar, (Item 4), and place the start collar over the exhaust opening on the top gas heat panel as shown in Figure 4. Make sure the holes provided around the flue opening correspond to the hole pattern in the start collar. Notch the collar as required to clear adjacent screws. Use four (4) #10 x.500 long tap screws, (Item 10), to secure the start collar to the top gas heat panel.

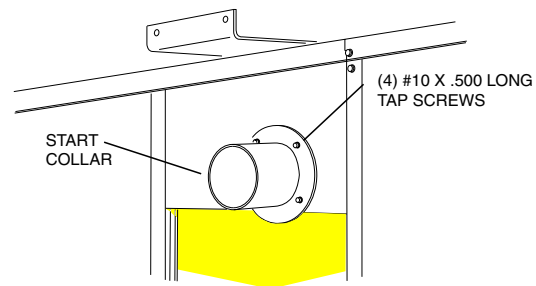


FIGURE 4 : START COLLAR INSTALLED

7. Install the J-lock female end of the 90 degree elbow, (Item 5), over the start collar, with the outlet facing up. See Figure 5.
8. Install the straight pipe section, (Item 6), onto the elbow.
9. Slip the wall bracket, (Item 8), over the straight pipe section and secure it to the flue stack bracket using #10 x.500 long tap screws, (Item 10).
10. Install the vent cap, (Item 7).
11. After checking the assembly for alignment, drive two or more #10 x.500 lg. tap screws, (Item 10), into the elbow to secure it to the start collar. Tighten the pipe bracket. Use additional screws to secure the cap or straight sections, as needed.
12. Transfer the combustion air hood and screen to the bottom gas heat panel, (Item 2). Install the bottom gas heat panel and any remaining cabinet screws.

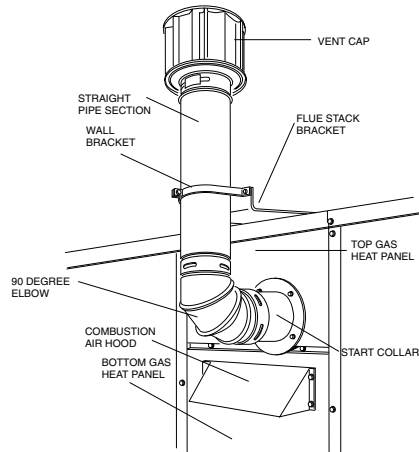


FIGURE 5 : FLUE EXHAUST KIT INSTALLED

13. Restore electrical and gas supplies to the unit.

INSTALLATION OF KIT 1FE0409 OR 1FE0410

1. DISCONNECT ELECTRICAL POWER AND GAS SUPPLY TO THE UNIT!
2. Remove the existing gas furnace access panel.

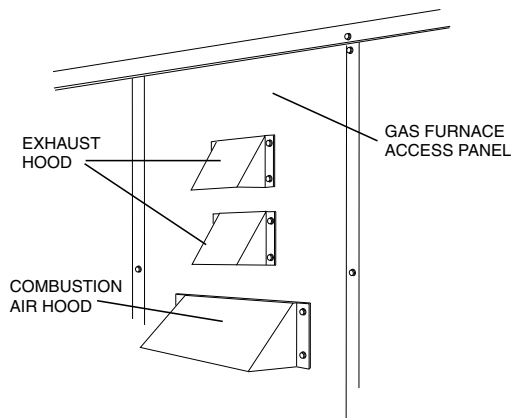


FIGURE 6 : GAS FURNACE ACCESS PANEL

NOTE: The small access panel with knockouts can be left in place.

3. Remove the exhaust hood and combustion air hood assemblies from the gas furnace access panel. Save the combustion air hood assembly. The panel and exhaust hoods may be discarded.
4. Attach the flue stack bracket, (Item 3), to the furnace section roof, with the double-bend flange extending upwards, as shown in Figure 7. The bracket is notched to clear the roof-seam and roof screws.

Carefully drive #10 x.500 long tap screws, (Item 10), into the holes in the bracket. Seal these screws with silicone sealant, or replace them with cabinet-type screws, (Item 9), after the holes are drilled.

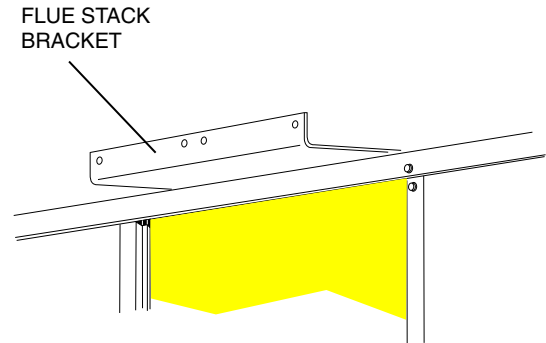


FIGURE 7 : ATTACHING ROOF BRACKET

5. Install the top gas heat panel, (Item 1), provided with the Flue Exhaust Kit. See Figure 8. Re-install all panel screws originally provided.

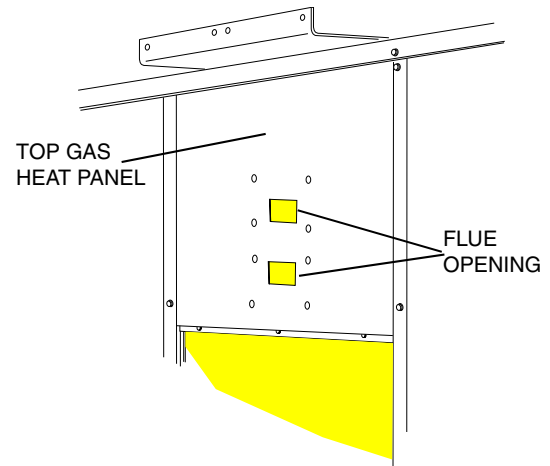


FIGURE 8 : INSTALLED TOP GAS HEAT PANEL

6. Remove the paper backing from the flanges of two (2) start collar, (Item 4), and place the start collar over the exhaust openings on the top gas heat panel as shown in Figure 9. Make sure the holes provided around the flue opening correspond to the hole pattern in the start collars. Trim off one edge of the flange on each collar in order to clear the adjacent collar, see Figure 9. Use four (4) #10 x.500 long tap screws, (Item 10), to secure each start collar to the top gas heat panel.

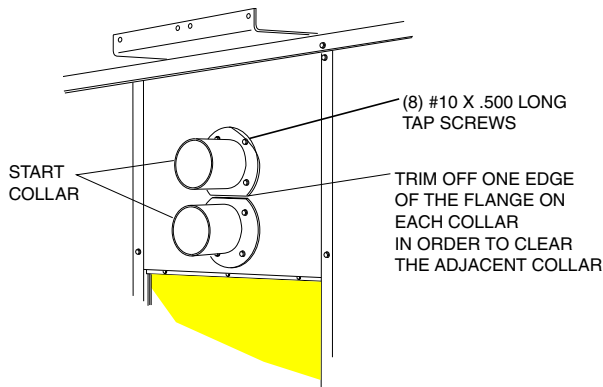


FIGURE 9 : START COLLARS INSTALLED

7. Install the J-lock female end of the 90 degree elbow, (Item 6), over the upper start collar, with the outlet positioned roughly 45 degrees, to the left, from vertical.
8. Attach the 45 degree elbow, (Item 5), onto the 90 elbow, with the outlet facing up. See Figure 10.

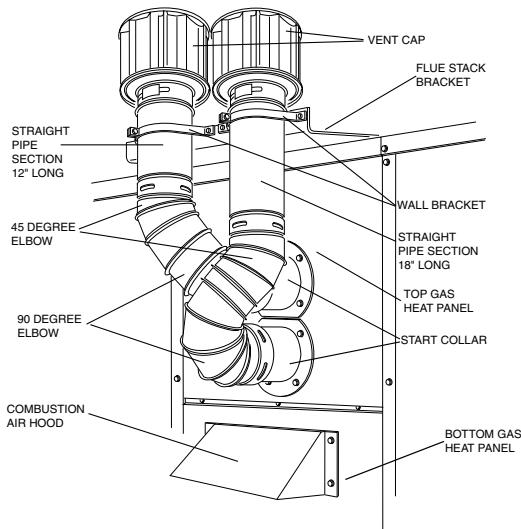


FIGURE 10 : FLUE EXHAUST KIT INSTALLED

9. Install the straight pipe sections, (Item 7), onto the 45 degree elbow.
10. Install the J-lock female end of the 90 degree elbow, (Item 6), over the lower start collar, with the outlet positioned roughly 45 degrees, to the right, from vertical.

11. Attach the 45 degree elbow, (Item 5), onto the 90 elbow, with the outlet facing up. See Figure 10.
12. Install the straight pipe sections, (Item 8), onto the 45 degree elbow.
13. Slip one wall bracket, (Item 10), over each straight pipe section and secure it to the flue stack bracket using #10x.500 long tap screws, (Item 12).
14. Install the vent caps, (Item 9).
15. Adjust each stack assembly as required by swiveling the segments of each elbow until the stacks are in alignment. Drive two or more #10 x.500 lg. tap screws, (Item 12), into the 90 degree elbows to secure them to the start collars. Tighten the pipe brackets. Use additional screws to secure the caps or straight sections, as needed.
16. Transfer the combustion air hood and screen to the bottom gas heat panel, (Item 2). Install the bottom gas heat panel and any remaining cabinet screws.
17. Restore electrical and gas supplies to the unit.