

# OPTIONAL FRESH AIR INTAKE INSTALLATION INSTRUCTIONS

11987

EFFECTIVE DATE MAY, 2002

## OPTIONAL FRESH AIR INTAKE KIT

DVFB-AK-30-1

FB-AK-2

ADS-6

INSTRUCTIONS MUST BE LEFT WITH THE OWNER FOR FUTURE REFERENCE AFTER INSTALLATION.

### Optional Fresh Air Intake Kit (Figure 1)

Installation of our 6" fresh air intake kit is simple and easy to complete. This system **MUST BE** installed before the fireplace is enclosed with finishing material.

The air will be drawn into the cooling layer of the fireplace and be completely separated from the combustion casing of the vent-free fireplace.

Cooler outside air will mix with room air, circulating around the firebox to reduce the heat output and bring heated, fresh air into the house to provide a more positive balance.

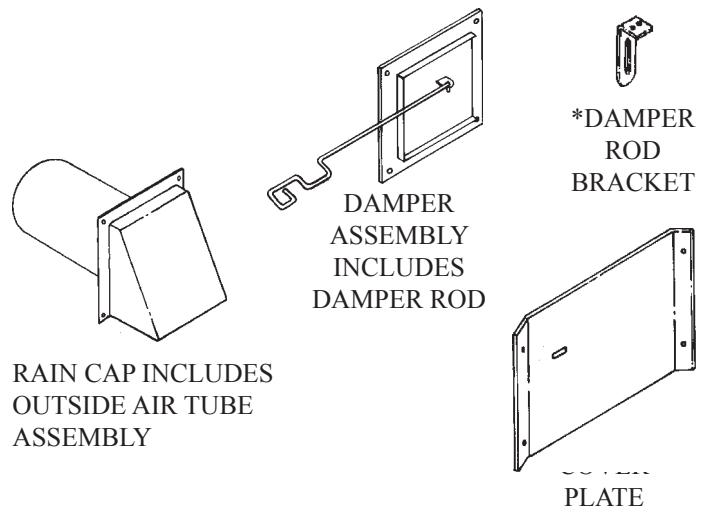


Figure 1 Fresh air intake kit

### Installing Fresh Air Intake Kit (Figures 2, 3, 4, 5)

1. Remove air dilution cover plate from left side of outer casing by removing (4) 10 x 1/2" screws (See Figure 2).
2. Attach damper assembly onto left side of outer casing with (4) 10 x 1/2" screws from Step 1. The 3" damper door tab will be positioned to the right as the damper assembly is attached to left side of outer casing.
3. As you face the fireplace, insert damper rod bracket into left, interior bottom of fireplace. The 3/4" flange on damper rod bracket must face toward the rear of fireplace. Align (2) clearance holes on damper rod bracket with (2) screw holes on left side of hearth pan. Attach damper rod bracket to the underside of hearth pan with (2) 10 x 1/2" provided screws (See Figure 3).

\*Attention: On DVF, DVT/R, DVS and DVST/R models damper rod

bracket is already installed to underside of hearth pan.

4. Two cover plates are provided in kit. The VFFB and VFC cover plate measures 7" in height. The DVF, DVT/R, DVS and DVST/R cover plate measures 6 3/8" in height. Use appropriate cover plate for your appliance and discard second cover plate.
5. Insert and position appropriate cover plate into left, interior bottom of fireplace. The 3/8" diameter hole in cover plate will be positioned upward and to the left.
6. Insert damper rod through damper rod bracket and 3/8" diameter hole in cover plate. Insert damper rod into 1/4" diameter hole in

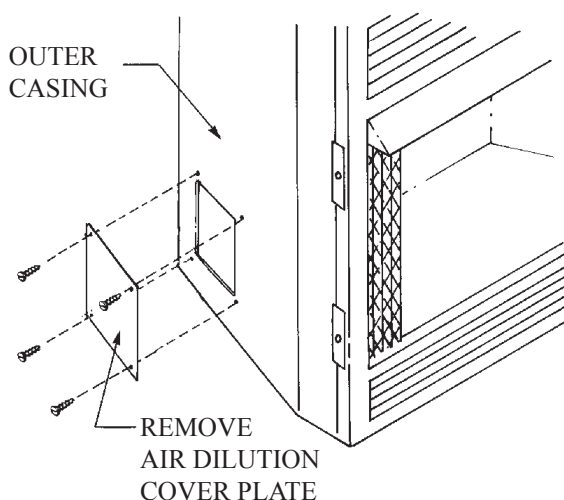


Figure 2 Damper Assembly Location

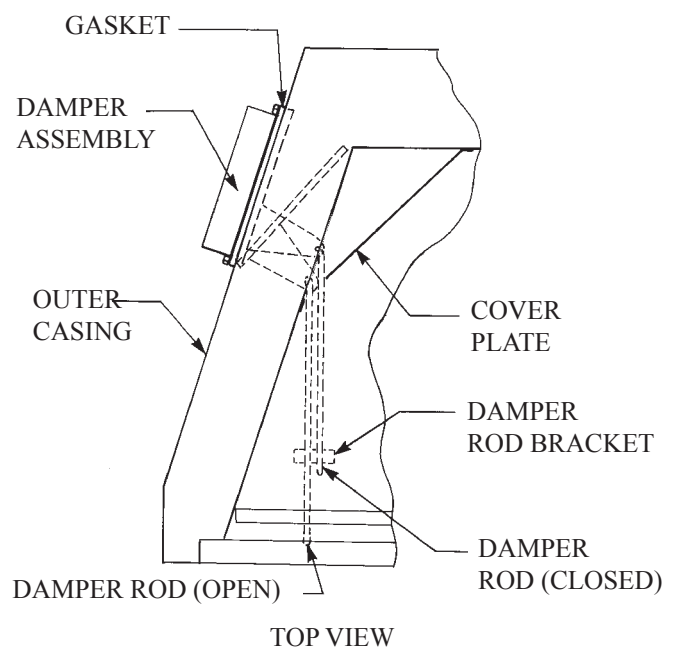


Figure 3 Top view of air system installation

damper door tab. Place smooth side of 1/2" diameter pushnut over end of damper rod. Press the pushnut onto the damper rod approximately 1/8". The pushnut will prevent the damper rod from falling out of 1/4" diameter hole in damper door tab.

7. Attach cover plate to support legs with (4) 10 x 1/2" provided screws. The support legs are on the left side, to the rear, in the interior bottom of fireplace.
8. The 1 1/4" offset on damper rod is used to secure the damper door in an open or closed position.
9. Refer to Figure 4 for options available for installation of 6" diameter duct. The duct run can be a maximum length of 40 feet. Insulated duct is recommended when ducting through a heated space. Note: 6" C vent or 6" flex vent can be used.
10. Cut a 6" diameter hole in structure after determining duct termination (rain cap) location.
11. Caulk exterior of structure that will be contacted by outside air tube assembly (See Figure 5).

12. Insert outside air tube assembly into 6" diameter hole in structure. Align clearance holes on rain cap with clearance holes on outside air tube assembly. Attach rain cap and outside air tube assembly to structure with (6) 1 1/2" provided screws.
13. Attach 6" diameter duct to 1 1/2" collar on damper assembly.
14. Route 6" diameter duct to outside air tube assembly.
15. Attach 6" diameter duct to outside air tube assembly.
16. Installation of fresh air intake kit is completed.

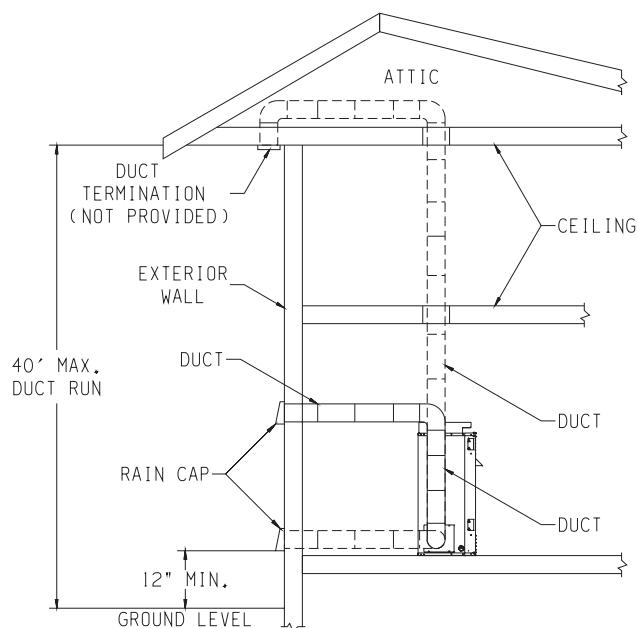


Figure 4 Example of installation

PARTS LIST		
Part Description	Part Number	Quantity Supplied
Damper Assembly	10098	1
Cover Plate VFFB, VFC	10083	1
Cover Plate DVF, DVT/R, DVS, DVST/R	10851	1
Damper Rod Bracket	10086	1
Rain Cap	10124	1
Damper Rod	R-4182	1
Pushnut	R-4607	1
10 x 1/2" Screw	R-2737	6
10 x 1 1/2" Screw	R-1134	6

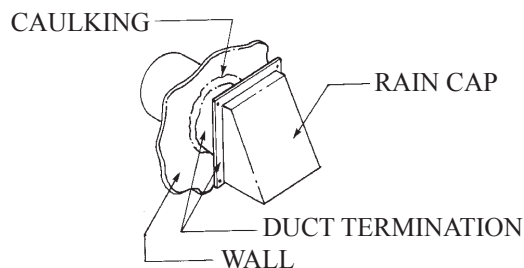
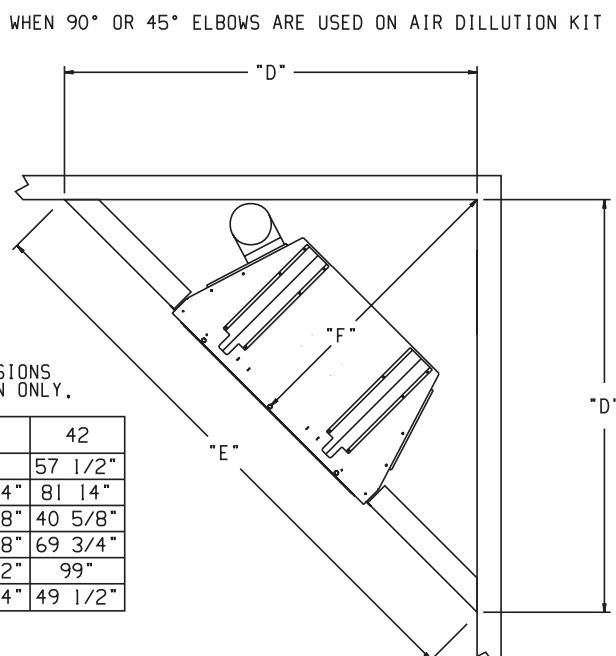
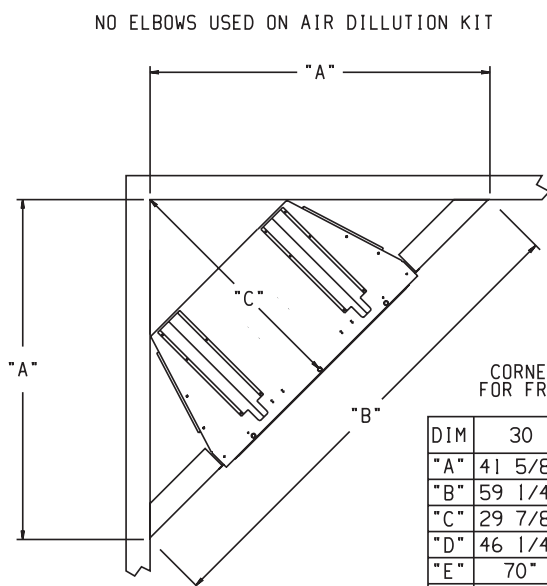


Figure 5 Caulk and install duct termination



CORNER DIMENSIONS FOR FRAMING IN ONLY.

DIM	30	36	42
"A"	41 5/8"	50"	57 1/2"
"B"	59 1/4"	70 3/4"	81 1/4"
"C"	29 7/8"	35 3/8"	40 5/8"
"D"	46 1/4"	62 5/8"	69 3/4"
"E"	70"	88 1/2"	99"
"F"	35"	44 1/4"	49 1/2"