Installation Instructions

Vent Extension Kit KGAVE0101DNH
For All 33.3 Inch, Multipoise, Non-Condensing Furnaces

NOTE: Read the entire instruction manual before starting the installation.

SAFETY CONSIDERATIONS

Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained personnel should install or service heating equipment.
Untrained personnel can perform basic maintenance functions such as cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on heating equipment, observe precautions in the literature and on tags and labels attached to the unit. Follow all safety codes. Wear safety glasses and work gloves. Have a fire extinguisher available.

INTRODUCTION

This instruction covers the installation of the vent extension pipe, KGAVE0101DNH on 80% AFUE, 33.3-inch high, induced-combustion, multipoise, furnaces.

DESCRIPTION AND USAGE

This vent extension kit is used for the Category I venting of gas furnaces. The pipe is constructed of aluminized steel and offers greater corrosion resistance than conventional single wall galvanized steel vent pipe.

It is not a substitute for Type B vent or Type B vent connectors used out side of the furnace casing.

The pipe is sized for downflow and horizontal applications where the vent pipe passes through the casing. It may also be used in any application where a 4-Iinch single pipe vent connector is permitted to be used a vent connector. It can also be used to replace the vent connector that passes through the blower compartment on older style downflow/horizontal furnaces. The vent pipe may be cut, or additional pieces added to fit other applications.

Note: All 2-stage and all Variable Speed furnace models require a Type B vent connector. A Type B vent connector may be required in some single stage applications. Refer to local codes or the National Fuel Gas Code, ANSI Z 223.1/NFPA54-1999 or National Standards of Canada, Natural Gas Propane Installation Code, CGA B149.1-M95 and CGA B149.2-M95.

INSTALLATION

VENT EXTENSION PIPE

1. Determine what part of door the vent connector will pass through.
2. Remove outer door.

⚠ **CAUTION** Personal injury can result from sharp metal edges, etc. Be careful when removing parts or cutting sheet metal. Gloves and safety glasses should be worn when servicing equipment.

3. If vent is passing straight through the outer door (See Fig.1) :

a. Install vent extension pipe on vent elbow attached to furnace and secure with 2 sheet metal screws spaced 180° apart.
b. Increase to 5-inch vent connector and/or change to Type B vent material as required for the application.
c. Secure all single wall vent connectors with 3 sheet metal screws spaced 120° apart.
d. Connect Type B vent connectors per vent manufacturer's instructions.

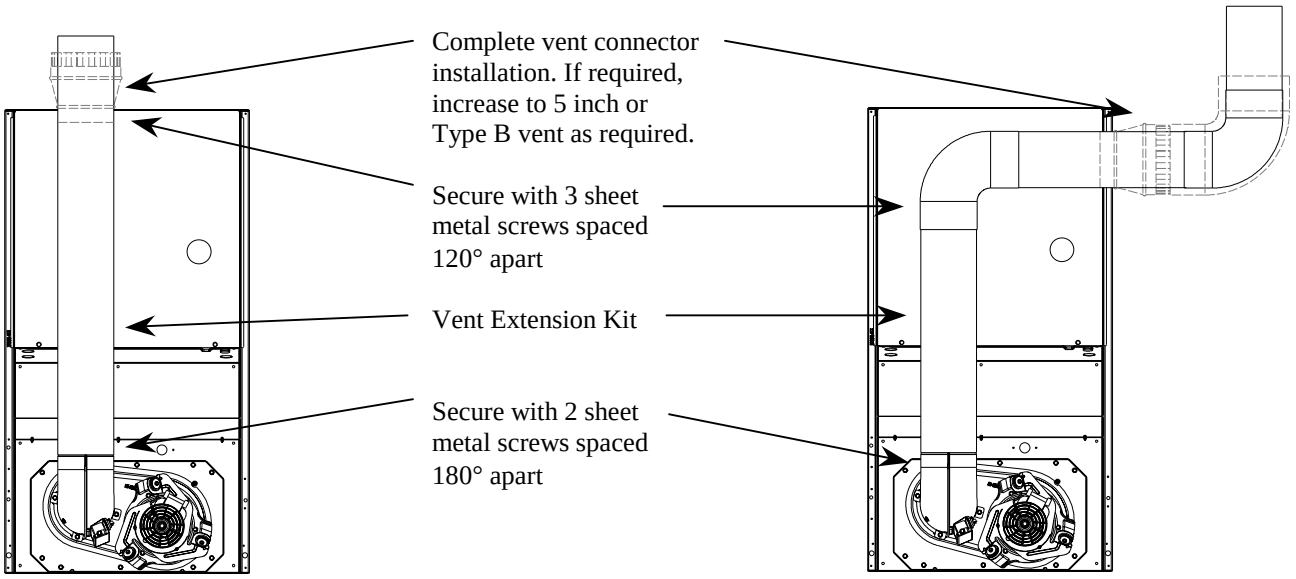
4. If vent is passing through the side of the outer door:
    a. Measure and mark vent connector to correct size.
    b. Cut vent connector with tin snips or hacksaw.
    c. Install vent extension pipe on vent elbow attached to furnace inducer housing and secure with 2 sheet metal screws spaced 180° apart.
    d. Install elbow on vent extension and secure with 3 sheet metal screws spaced 120° apart.
    e. Compete vent connector with additional vent extension pipe until pipe extends outside the furnace casing.
    f. Increase to 5-inch vent connector and/or change to Type B vent material as required for the application.
    g. Secure all single wall vent connectors with 3 sheet metal screws spaced 120° apart.
    h. Connect Type B vent connectors per vent manufacturer's instructions.

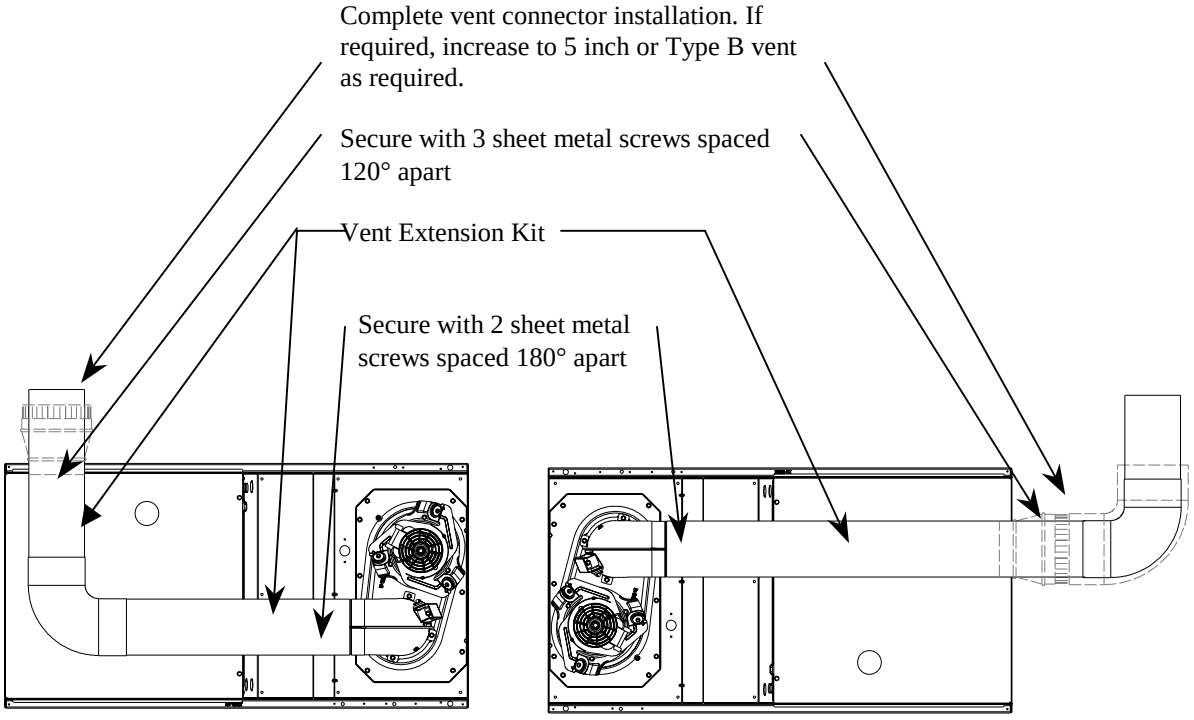
⚠ WARNING Failure to properly install vent connectors could result in CO being released into the structure. Failure to follow this warning could result in personal injury or death.

5. Remove the correct door cut-out from the outer door with aviation type tin snips.

6. Install outer door or any other complete furnace installation tasks per the furnace installation instructions.

Fig. 1-TYPICAL INSTALLATION


Complete vent connector installation. If required, increase to 5 inch or Type B vent as required.
Secure with 3 sheet metal screws spaced 120° apart
Vent Extension Kit
Secure with 2 sheet metal screws spaced 180° apart


Complete vent connector installation. If required, increase to 5 inch or Type B vent as required.
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Secure with 2 sheet metal screws spaced 180° apart