



18-CH82D1-1A-EN

Installer's Guide

DIRECT VENT FURNACE OR BOILER SIDE WALL VENT KIT BAYVENTCN200B

For use with condensing furnace models: S-Series, *UX, *DX, *UY, *DY, *UH, *DH, M95, *UC, *DC and condensing wall mount boilers TGCWW130A90M0A and TGXWW130A90M0A

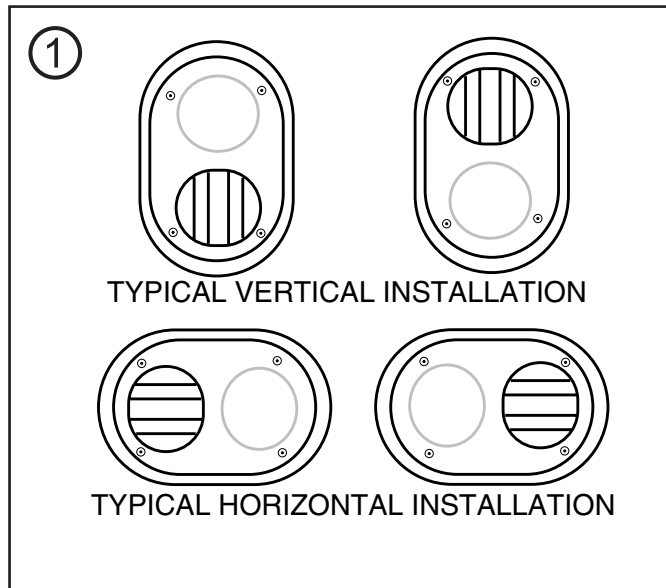
*__First letter may be "A" or "T"

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT – This Document is **customer property** and is to remain with this unit. Please return to service information pack upon completion of work.

NOTE:

Canada requires that all Category IV heating appliances use venting material that meets ULC S636. This kit meets the requirements to be used in a venting system.



NOTE: Codes and local utility requirements governing the installation of gas fired equipment, wiring, plumbing, and flue connections must be adhered to. In the absence of local codes, the installation must conform with the National Fuel Gas Code ANSI Z223.1 "latest edition", or CAN/CGA B149 Installation Codes. The latest code may be obtained from:

The American Gas Association Laboratories
400 N. Capitol St. NW, Washington D.C. 20001
1-800-699-9277 or www.aga.com

NOTE: Read the Installer's Guide before starting the installation.

The equivalent vent length of the BAYVENTCN200B is 0 feet.

INTRODUCTION

This Installer's guide covers installation of the side wall venting kit on all gas fired direct vent condensing furnaces and boilers.

⚠ WARNING

THIS VENT KIT IS ONLY TO BE USED FOR VENTING CATEGORY IV FURNACES AND BOILERS. DO NOT USE TO VENT CATEGORY I, II, III VENT FURNACES OR BOILERS. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN FIRE, PERSONAL INJURY OR DEATH.

DO NOT APPLY TO A NON-CONDENSING GAS FURNACE OR BOILER

NOTE: If these instructions differ from those packaged with the furnace or boiler, follow these instructions.

⚠ WARNING

INSTALLING AND SERVICING HEATING EQUIPMENT CAN BE HAZARDOUS DUE TO GAS AND ELECTRICAL COMPONENTS. ONLY TRAINED PERSONNEL SHOULD INSTALL OR SERVICE HEATING EQUIPMENT TO PREVENT PRODUCT DAMAGE OR PERSONAL INJURY.

GENERAL

This vent kit may be used on 2, 2-1/2, or 3 inch vent systems. The vent kit must terminate outside the structure and may be installed with the pipes side by side or with one pipe above the other as shown in Figure 1. It is not required for the vent kit to be installed in a specific orientation.

Field supplied pipe and fittings are required to complete the installation. The combustion air pipe, vent pipe and fittings must conform to American National Standards Institute (ANSI) and American Society for Testing and Materials (ASTM) standards D-1785 (schedule-40 PVC), D-2665 (PVC-DWV), D-2661 (ABS-DWV), or F628 (schedule-40 ABS). Pipe cement and primer must conform to ASTM standard D-2564 (PVC). In Canada, construct all combustion air and vent pipes for this unit of CSA or ULC certified schedule-40 PVC/ABS-DWV pipe and pipe cement.

INSTALLATION - Side Wall Vent Kit

1. Determine the best location for the vent kit.

NOTE: In addition to all applicable local codes, consider the following when determining the vent kit location:

- The vent kit should be positioned where the vent vapors and flue gas condensate will not damage building materials, plants, shrubs, or air conditioning equipment or building structure.
- The vent kit should be positioned so it will not be affected by wind currents that may allow recirculation of combustion products, airborne leaves, snow flakes, etc.
- The vent kit should be positioned where it will not get damaged or be subjected to foreign objects (such as stones, balls, etc.).
- The vent kit should not be positioned where the vent vapors will be objectionable.

2. Use the vent plate as a template to locate the vent and air intake holes and four mounting holes. Cut two 3-7/8 inch diameter holes for the vent and air intake openings. Drill four 3/16" diameter holes for inserting the plastic anchors into the wall. Attach the vent plate to the wall with four screws (#8 pan, 2" long, SMS Type A18-8 stainless steel).

3. Assemble the vent cap to the vent plate (see Figure 2). Insert the four (#8 pan, 1" long, SMS Type A 18-8 stainless steel) screws into the vent cap screw hole openings and securely attach the vent cap to the vent plate.

4. Install the vent and air intake piping into the vent plate openings. Seal all gaps between the pipes and wall. Use RTV silicon sealant to seal the vent pipe to the vent cap to permit field disassembly for cleaning. To reduce to 2" or 2-1/2" piping, reducing couplings are required but not supplied (see Figure 3).

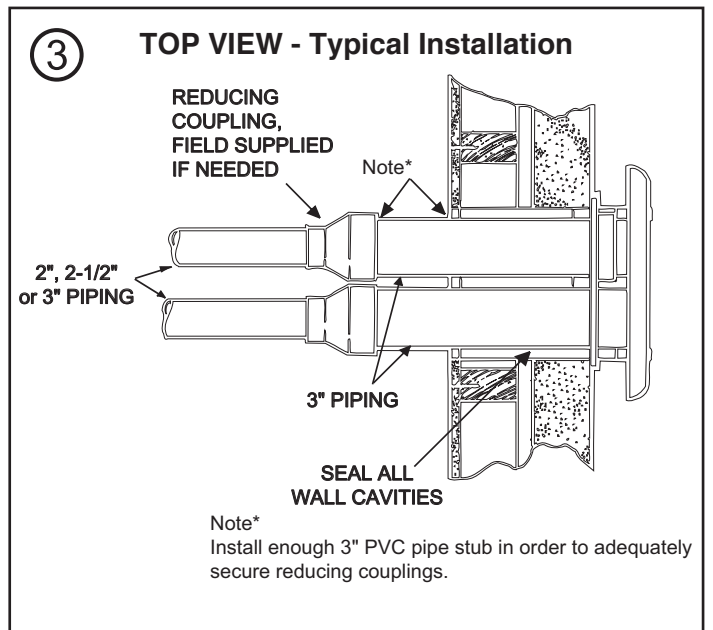
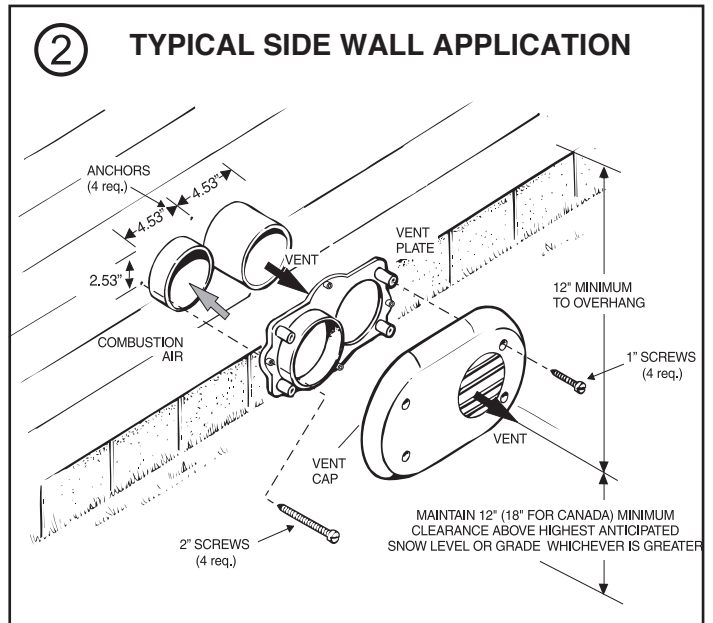
5. Seal all wall cavities.

NOTE: Two or more installations require a minimum separation distance of approximately one inch between vent kits.

To prevent the possibility of condensate freeze-up, do not install vent kits one above the other.

NOTE: FLUE GAS DEGRADATION

The moisture content of the flue gas may have a detrimental effect on some building materials. This can be avoided by using the roof or chimney venting option. When wall venting is used on any surface that can be affected by this moisture, it is recommended that a corrosion resistance shield (24 inches square) be used behind the Vent Terminal. This shield can be made of wood, plastic, sheet metal, etc. Also, silicone caulk all cracks, seams, and joints within 3 feet of the Vent Terminal.



IMPORTANT:

The Commonwealth of Massachusetts requires compliance with regulation 248 CMR 4.00 and 5.00 for installation of through – the – wall vented gas appliances as follows:

For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

1. **INSTALLATION OF CARBON MONOXIDE DETECTORS.** At the time of installation of the side wall horizontal vented gas fueled equipment, the installing plumber or gasfitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gasfitter shall observe that a battery operated or hard wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors
 - a. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.
 - b. In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.
2. **APPROVED CARBON MONOXIDE DETECTORS.** Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.
3. **SIGNAGE.** A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. **INSPECTION.** The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08(2)(a)1 through 4.

This appliance requires a special venting system. If BAYAIR30CNVENT or BAYVENTCN200B are used, a copy of the installation instructions for the kit shall remain with the appliance or equipment at the completion of installation. The venting system installation instructions can be obtained from the manufacturer by writing to the following address:

Residential Systems
6200 Troup Highway
Tyler, TX 75707
Attention: Manager of Field Operations Excellence

CHECKOUT

Operate the furnace or boiler to make sure all pipe joints are fastened and sealed to prevent the escape of combustion products into the building.

⚠ WARNING

DO NOT OPERATE THE FURNACE OR BOILER WITHOUT THE SIDEWALL CAP IN PLACE AS RECIRCULATION OF COMBUSTION PRODUCTS MAY OCCUR. WATER MAY ALSO COLLECT INSIDE THE COMBUSTION AIR PIPE AND FLOW TO THE BURNER ENCLOSURE. FAILURE TO FOLLOW THIS WARNING COULD RESULT IN PRODUCT DAMAGE OR IMPROPER OPERATION, PERSONAL INJURY OR DEATH.

About Trane and American Standard Heating and Air Conditioning
Trane and American Standard create comfortable, energy efficient indoor environments for residential applications.
For more information, please visit www.trane.com or www.americanstandardair.com

The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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