



INSTALLATION INSTRUCTIONS

FasNSeal® Rinnai Vent Kit with Straight Bird Screen Termination

READ THESE INSTRUCTIONS COMPLETELY BEFORE ATTEMPTING INSTALLATION

INTRODUCTION

These instructions pertain to the installation of the **FSWMKBS4** Vent Kit.

The FasNSeal® Vent Kit **FSWMKBS4** is designed for sidewall venting of the Rinnai model 3237 instantaneous tankless water heater. This kit contains four easy-to-install parts that allow the Rinnai model 3237 to vent through any combustible wall. **FSWMKBS4** is compatible with standard FasNSeal® products.

Before attempting installation, be sure to completely read both these instructions and the appliance instructions. Additional information and requirements regarding the use and installation of FasNSeal® products can be found in ProTech's FasNSeal® Installation Instructions (Literature No. 1150B). Local codes and regulations may apply; always adhere strictly to local codes and regulations.

All warranties, stated or implied, are void if this product and the appliance to which it is connected are not installed in accordance with both their respective instructions and jurisdictional code requirements.

Proper joint assembly is essential for safe installation. Failure to follow both these instructions and sound installation practices can lead to risk of pipe breakage, fire, carbon monoxide poisoning, and death.

KIT COMPONENTS

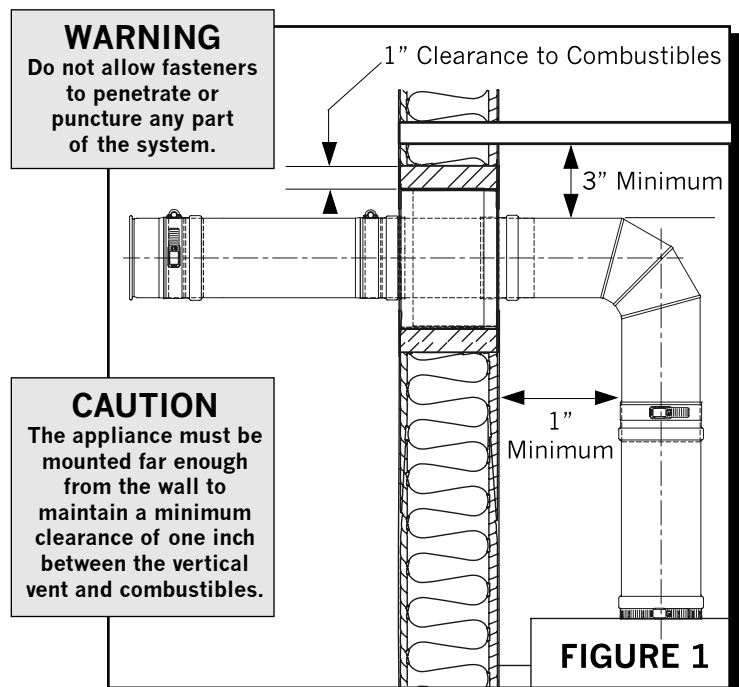
- Wall thimble
- 90° Adjustable Elbow
- 12" long Appliance Adapter
- 12" long Vent Length
- Straight Bird Screen Termination
- Installation Instructions

GENERAL REQUIREMENTS

WARNING: Failure to conform to any of these requirements may violate local, state, or national codes and create conditions that may cause catastrophic property damage or personal injury.

- Proper operation of the vent system and appliance requires correct use and assembly of all parts specified as necessary by ProTech Systems, Inc.

- If required by the appliance manufacturer, a drain fitting must be located as close as possible to the appliance flue outlet.
- More than one appliance **may not** be connected into the same vent kit termination.
- FasNSeal® must avoid any contact with plumbing or electrical systems.
- Proper clearances to combustibles must be maintained over the entire length of the system (see figure 1).
- Never install FasNSeal® on an appliance that is not listed for use with a Special Gas Vent or Type BH vent.
- Additional FasNSeal® vent lengths can be installed for extended runs. The overall equivalent length of the system shall not exceed the specifications of the appliance manufacturer's instructions.
- Horizontal vent runs shall have a slope of no less than ¼ inch (6.4mm) every 12 inches (305mm) to prevent collection of condensates.
- The termination should be away from trees, shrubs, or decorative items, as flue gases are caustic.
- The venting system must be free to expand/contract.
- There must be unrestricted vent movement through wall, ceiling, and roof penetrations.
- Different manufacturers use different joint systems and adhesives. **Do not mix pipe, fittings, or joining methods from different manufacturers.**



GENERAL TERMINATION GUIDELINES

Note that the following are simply guidelines. Check with your local Code Enforcement Office for specific termination requirements.

A mechanical draft vent system, excluding direct-vent appliances, shall terminate at least 4 feet (1219 mm) below, 4 feet (1219 mm) horizontally from, or 1 foot (305 mm) above any door, window, or gravity air inlet into any building. The bottom of the vent terminal shall be located at least 12 inches (305 mm) above grade. In geographical areas where snow accumulates, termination shall be at least 12 inches above the snow line. The termination must be kept clear of snow and ice at all times.

Do not terminate over public walkways. do not terminate over an area where condensate or vapor could create a nuisance or hazard, or could be detrimental to the operation of regulators, relief valves, or other equipment.

INSTALLATION INSTRUCTIONS

1. Determine the location of the Wall Thimble so that a continuous minimum slope of 1/4" per foot is maintained in any horizontal portion of the vent system. (See figures 2 & 3)

2. Cut a 9"-diameter hole for the wall thimble.

- Position Part A into the opening so that it is located on the outside of the structure.
- Apply a bead of silicone between the two surfaces and around the edges before nailing or screwing the plate on Part A to the outside of the structure.
- From the inside, slide the sleeve of Part B onto the sleeve of Part A until Part B's plate is flush against the inside structure surface. Fasten with screws or nails.

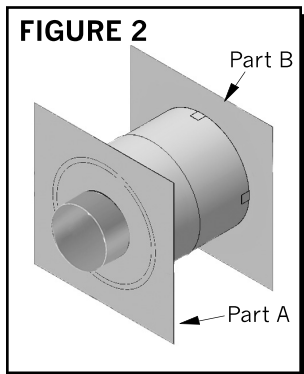


FIGURE 2

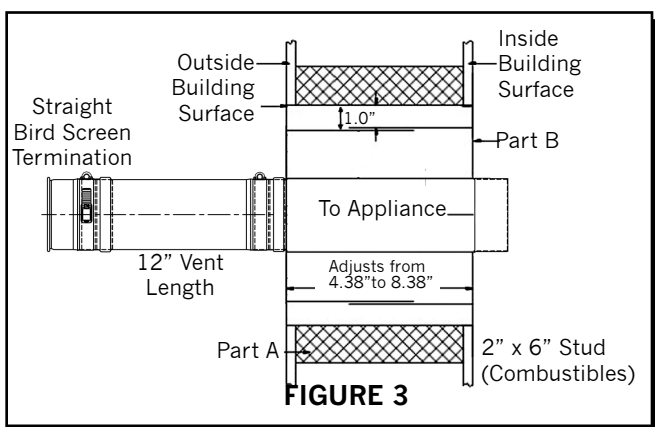


FIGURE 3

3. Slide the 12" appliance adapter over the end of the elbow. Insert the other end of the elbow into the wall thimble.

- Pull the appliance adapter over the vent collar and secure it with the built-in locking band.
- Adjust the elbow to achieve the desired pitch.

When installing the adjustable elbow, the end must be inserted past the silicone gasket. To fully engage the gasket, at least two inches of the elbow must be inserted. Gasket is fully engaged when etched double guide line is completely covered (see figure 4).

If you are unable to install the elbow past the indicated lines, additional vent lengths must be installed. Refer to the FasNSeal® Installation Instructions (Literature No. 1150B) for proper installation techniques.

4. To terminate, connect the 12" Vent Length to the exterior side of the Wall Thimble, then connect the Bird Screen Termination to the 12" Vent Length.

Prior to initial startup, check the entire system to ensure all joints are secured and sealed correctly. The seams and joints must be checked for gas tightness when using the venting system with Category III or IV appliances, as well as for free movement of flap. PTS recommends that a qualified inspector check the entire system at least once annually following the initial installation.

Installation must conform to the requirements of the appliance manufacturer's instructions, the National Fuel Gas Code, and all local codes and regulations.



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