

CHIMNEY MAINTENANCE AND INSPECTION

Formation of creosote and soot and the subsequent need for removal occurs when solid fuel is burned slowly, producing tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the cooler flue of a slow-burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this can result in an extremely hot and possibly damaging chimney fire. The Saf-T Vent is intended to contain such a fire but possible damage to the liner system is a possible consequence.

To reduce the risk of such a chimney fire the chimney should be inspected every month during the wood burning season (more often if a rapid buildup has occurred in the past) and cleaned at least annually by a Certified Chimney Sweep®. To inspect and/or clean the liner remove the rain cap by prying up the locking tabs holding the cap to the top section of Saf-T Vent. Also remove the cover from the cleanout fitting and remove any accumulated soot. After thoroughly cleaning the chimney, re-install the raincap and cleanout cover.

Supplemental Instructions for Installation of SAF-T VENT™ Chimney Lining System For Use With General Residential Appliances Burning Solid Fuel, Oil or Gas

The Saf-T Vent Chimney Lining System, when insulated with Saf-T Wrap Chimney Liner Insulation, may be used in conjunction with any residential heating appliance burning liquid or solid fuels. Category I gas appliances may also be installed according to these instructions. ***The liner must be run inside a masonry chimney.*** Any connected appliance may not produce continuous flue-gas temperatures in excess of 1000°F or cause condensation of corrosive acids on the liner or create positive pressure in the chimney system. Read and follow these instructions completely, together with the appliance manufacturer's instructions and any applicable local and national codes.

INSTALLATION CONSIDERATIONS

Refer to the ***Main Instructions*** for the general installation requirements and procedures. In addition, observe the following limitations and required parts. Proper operation of the appliance and venting system is dependent upon use of all specified parts and installation techniques; both safety and proper performance of the system may suffer if instructions are not followed.

1. A 90° elbow or tee ***must*** be used at the base of the vertical liner in the chimney for clean-out access. This is in addition to the appliance tee(s).
2. Saf-T Vent conduit sections ***must*** be insulated with Saf-T Wrap chimney liner insulation.
3. A separate appliance operating under ***positive*** pressure may not be connected to any part of the venting system. Another appliance operating under ***negative*** pressure may be interconnected only if ***neither appliance is solid-fuel burning***, and is specifically allowed by the instructions for ***both*** appliances and any code restrictions are observed.
4. Another appliance may not vent into the flue space outside the Saf-T Vent conduit. However, a separate chimney liner may be installed within the chimney to vent another appliance, if there is sufficient space and all manufacturer's instructions and codes are followed.



DETERMINE REQUIRED AMOUNT OF SAF-T WRAP

Saf-T Wrap is available in 24-inch lengths only, therefore two lengths will be required for each 4-foot section of Saf-T Vent above the appliance tee. Saf-T Wrap must cover the Saf-T Vent from the appliance tee to within 8 inches but not closer than 3 inches of the top of the masonry chimney. It may be cut off as necessary.

PRE-INSTALLATION INSPECTION

Refer to **Main Instructions**. Before installation and use of a Saf-T Vent system for "all fuel" use verify that the masonry chimney and surrounding structure meets the following minimum criteria from **NFPA 211**. The chimney must be constructed on a solid foundation. The chimney must be 2 feet higher than any structure within 10 feet and 3 feet higher than the point at which it penetrates the roof. The chimney must be constructed of 4-inch (nominal) solid masonry units. Interior size must be at least 2 inches larger than the Saf-T Vent diameter. Exterior clearance from combustible material must be at least 1 inch.

INSTALLATION PROCEDURE

The Saf-T Vent must be no smaller in diameter than the flue collar of the connected appliance.

1. Follow the **Main Instructions** for Saf-T Vent packed with the conduit sections to inspect and prepare the chimney (Pre-installation Inspection). Locate the breaching hole and open the chimney as in the **Main Instructions**. Similarly locate and open a breaching for the required cleanout tee or elbow at a convenient location below the appliance breaching.
2. Determine the required length of Saf-T Vent conduit between the clean-out and appliance breachings. Net installed lengths are 4 1/2 inches, 10 1/2 inches, 16 1/2 inches, 22 1/2 inches, 36 inches, and 48 inches for the standard lengths.
3. Preassemble the cleanout tee and bottom tee cover (or elbow), the conduit between the cleanout and the appliance, and the appliance tee per the **Main Instructions** (Section B). The support clamp should be attached at the clean-out fitting.
4. Preassemble the conduit sections and attach the support rope as in the **Main Instructions** (Sections C, D).

5. Insulate the preassembled conduit sections beginning with the appliance tee. Wrap the first section of Saf-T Wrap around the upper portion of the appliance tee (Figure A-1). Secure the edges of the insulation by closing the snap-lock seam together (Figure A-2) and crimping at the top and bottom of the section with pliers (Figure A-3). Similarly, continue with the 2-foot lengths of Saf-T Wrap until the top of the last section is less than 24 inches from the top of the conduit section. Lower the insulated Saf-T Vent down the chimney as described in the **Main Instructions** (Section E). Continue insulating and lowering sections until the cleanout and appliance fittings are aligned with the breachings.

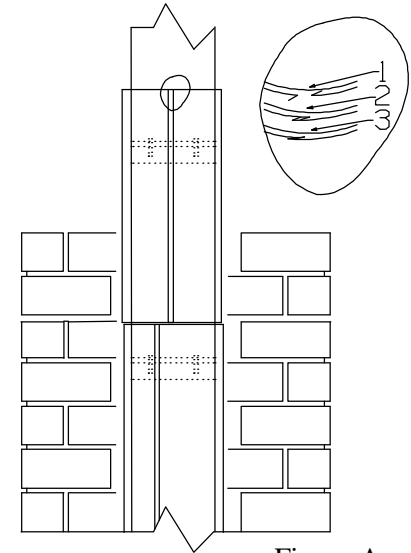


Figure A

6. Attach the take-off to the appliance and cleanout tee, the support system, and the termination assembly as in the **Main Instructions** (Sections F, G, H).
7. Connect a Saf-T Vent slip section to the take-off of both the appliance tee and the cleanout fitting. A standard tee cover will fit over the slip section for cleanout access. Close the breachings. The breachings may be closed with either masonry and bricks or blocked with a cover plate as described in the **Supplemental Category I Instructions**. If the appliance breaching is through a combustible wall then it must be closed with masonry and a listed and/or approved wall penetration assembly must be used (refer to **NFPA 211**, Table 5-7). The wall penetration assembly must not be located directly behind the appliance.
8. Connect the Saf-T Vent system to the appliance flue collar using Saf-T Vent sections, Saf-T Liner Sections, or generic single-wall stovepipe. The use of galvanized pipe or Type B Vent are not appropriate for solid-fuel appliances. When used with solid or liquid fuel appliances, clearance to combustibles must be at least 18 inches for Saf-T Vent, Saf-T Liner and generic single-wall pipe for the entire length of the connector run unless protected in accordance with Table 5-5b in **NFPA 211**. Consult Table 5-5a in **NFPA 211** for required clearances of any other appliances. Any single-wall pipe may not pass through combustible walls or floors except at the appliance breaching as described above.