



A SAFE AND HEALTHY WAY TO HEAT YOUR HOME

Vent-free gas heaters, fireplaces, stoves and log sets offer homeowners a safe and energy-efficient way to add heat to their homes. Vent-free gas appliances use precision burners and are design-certified by national testing laboratories to meet the latest national health and safety standards.

In 1980, the safety requirements for vent-free appliances were dramatically upgraded. All manufacturers comply with national standards.



- >> Every vent-free heating unit sold in the United States must have a tamper-resistant, precision-engineered oxygen detection safety sensor (ODS), which is equivalent in function and reliability to an electrical circuit breaker. The ODS automatically shuts off the appliance in the unlikely event that the optimal oxygen level in the vicinity of the unit begins to drop. The ODS shut-off point is defined by a minimum set by American National Standards Institute (ANSI) Z21.11.2.
- >> Certified vent-free gas appliances also are fitted with an internal, non-adjustable pressure regulator that prevents over-firing in the event of increased gas pressure.
- >> All vent-free gas appliances are permanently installed and have defined distances to combustible surfaces. They also have safety grills for heaters, fire screens and hoods for gas logs and fireplaces.



OUTSTANDING SAFETY RECORD <<—————

Vent-free gas products are safe provided they are installed and operated in accordance with manufacturer's instructions, which is important for all home appliances. More than 17 million vent-free appliances have been installed in the United States since 1980. These products have a 25+ year **outstanding safety record**.



- >> **UNITED STATES**
The Consumer Product Safety Commission (CPSC), charged with protecting the public from unreasonable risks of serious injury or death related to home appliances, has stated that it is not aware of any documented incident in the CPSC In-Depth Investigation (IDI) database of fatal carbon monoxide (CO) poisoning associated with an ODS-equipped vent-free gas heating product.



- >> **UNITED KINGDOM**
Approximately 15 million ODS-equipped vent-free units have been installed with no reported deaths.
- >> **JAPAN**
More than 40 million units have the same outstanding safety record.

MORE >>

Vent-Free Gas Products Alliance

FOR MORE INFORMATION PLEASE VISIT WWW.VENTFREE.ORG



HEALTHY INDOOR AIR QUALITY <<

Vent-free heaters, fireplaces, stoves and log sets are proven to meet today's most rigorous air quality standards.

>> The American Gas Association Research (AGAR) laboratories defined the five key by-products of gas combustion that influence indoor air quality. Their objective was to research the impact of these emissions from vent-free gas products on the home environment. The researchers took into consideration the climate in the country's five Department of Energy heating regions, various types of housing constructions and different volumes of space to be heated. After running hundreds of thousands of computer-based scenarios, results were confirmed by tests run at the American Gas Association test house facility.

AGAR researchers concluded that **“vent-free gas heating products performed well within nationally recognized guidelines for indoor air quality.”** This research shows that vent-free gas heating products meet applicable emissions requirements, even when used over extended time periods, among sensitive populations and with units whose maximum heat output exceeds the requirements of the space.



HEALTHFUL HUMIDITY <<

When it's cold enough to use the central heating system, most homes experience a significant drying effect that can be irritating to the nasal passages of residents, and lead to shrinking of caulk and damage to wood furnishings. To compensate for the level of moisture being extracted from the home during the heating season, many homeowners use humidifiers which provide many health and comfort benefits. Water vapor is a by-product of gas combustion. Vent-free gas products emit a very moderate level of water vapor and that is a very positive secondary benefit of the appliance. Independent research has proven that for 99 percent of homes in the U.S., the water vapor generated by vent-free gas heating products is below the level that would cause any negative side-effects.

ALL U.S. CODES SUPPORT VENT-FREE GAS PRODUCTS <<

The codes authorities of the U.S. rigorously review appliances and their installation guidelines to determine those that are approved. The eight (8) primary U.S. model building codes all permit the installation of vent-free gas products. No code that has permitted the products has ever been revised to limit their installation.



The Vent-Free Gas Products Alliance and its website, www.ventfree.org, continue to be a popular source for information on vent-free appliances. The Alliance has long worked closely with codes and standards groups across the country to provide accurate, up-to-date, and complete information on vent-free appliances.

The Vent-Free Gas Products Alliance is a coalition of members of the Vent-Free Gas Products Division of GAMA - An Association of Appliance and Equipment Manufacturers.



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