



Popular Science  
"Best of What's New"  
award winner

The Flame Guard® Safety System was selected by *Popular Science* in 1999 as one of 100 products rated **"The Best of What's New"** because it greatly reduces the risk of flammable vapor fires - keeping families safer than ever before.

#### *Today's Homeowner Magazine*

Flame Guard® was selected as one of the **"Best New Products"** in 1999 by *Today's Homeowner*, one of the leading Do-It-Yourself publications, because of its unique safety features.

#### *U.S. Consumer Product Safety Commission*

Flame Guard® is so important that the technology was recognized with a special **"Chairman's Commendation"** from the U.S. Consumer Product Safety Commission:

***"What was once considered an unsolvable safety hazard has now been solved. This is a significant safety improvement, and we encourage consumers to look for this technology when purchasing a gas water heater."***

*Ann Brown, Chairman*

AVAILABLE AT:



## The Safest Gas Water Heater Available Today!

New safety regulations require manufacturers to incorporate a special safety technology into gas-fired water heaters. The Flame Guard® System introduced this flammable vapor ignition resistant (FVIR) technology over five years ago—making it the only water heater with proven reliability in homes across North America.

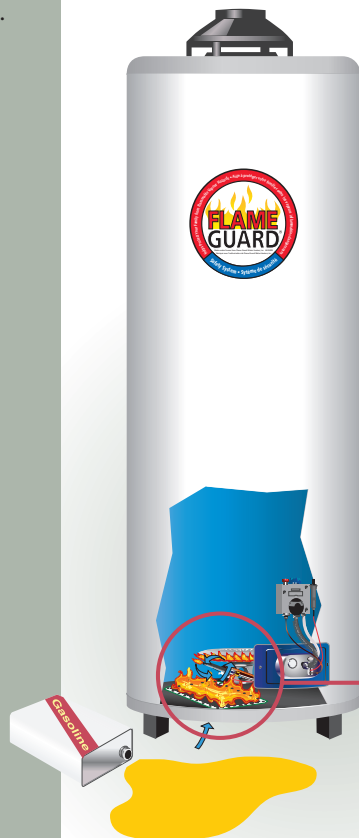
# A Gas Appliance Innovation in Safety

With more than 800,000 units in homes across North America, Flame Guard® gas water heaters from GSW mean you benefit from the only water heater on the market with more than 4 billion hours of incident-free operation. Flame Guard® patented technology prevents the ignition of flammable vapors from products such as gasoline, paint thinner and solvents. Subjected to over 1,000 tests including lint, dust and oil, butane, and endurance burn, the Flame Guard® system is the safest and most proven technology available today.

For more information on Flame Guard®, visit [www.gsw-wh.com](http://www.gsw-wh.com)

# How Flame Guard® Works

**NEW**



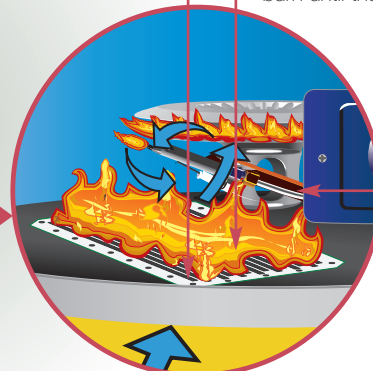
## Conventional Gas Water Heater

Flammable vapors from household products enter the combustion chamber and ignite. Burning vapors may flash back into the room causing a fast-spreading fire in your home.



Flammable vapor can only enter through a special air inlet.

Once ignited, the Flame Guard® system is designed to trap burning vapors inside the water heater's sealed combustion chamber. Flammable vapors in the immediate area are drawn into the combustion chamber, and as long as they are present and within the flammability range, they will continue to burn until they "burn themselves out".



A thermal sensor inside the combustion chamber senses the flammable vapor incident and shuts off gas flow to the burner and pilot light.