

## PROPANE IN NEW HOME CONSTRUCTION AND REMODELING

Propane delivers the kind of smart, sustainable energy performance that today's homebuilding environment demands. Likewise, its flexibility and energy efficiency make it an attractive choice in remodels or for simply upgrading an appliance. A wide range of residential propane applications provides homeowners with the ideal balance of performance and cost savings, while also giving homebuilders a unique offering and competitive advantage in the residential market.



### FOR MORE INFORMATION

- Visit [buildwithpropane.com](http://buildwithpropane.com) to
- Download individual application fact sheets.
- Use the Heating Energy Cost and Carbon Calculator to see the savings of propane.
- Explore the interactive Propane Energy Pod tool.

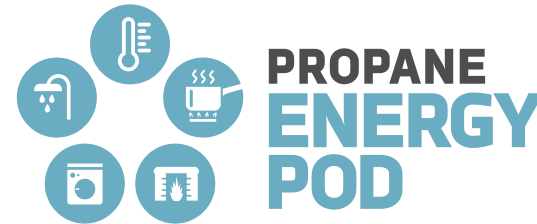
# RESIDENTIAL PROPANE APPLICATIONS





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When propane gas appliances are combined to meet a home's energy needs, it's known as the Propane Energy Pod. This home energy upgrade delivers superior performance, comfort, and efficiency compared with all-electric homes. The five major applications include: space heating, water heating, cooking, clothes drying, and fireplaces.



## HIGH EFFICIENCY FURNACES



High efficiency propane furnaces deliver significant value and a new level of comfort for homeowners.

Easily installed nearly anywhere in a home, they can provide space heating for any size floor plan from small residences to large custom homes.

These units have best-in-class efficiency, with ratings from 90 percent to 98 percent; and they have a smaller carbon footprint than most other systems. This gives them a considerable advantage compared with electric or heating oil units.

## HYBRID HEATING SYSTEMS



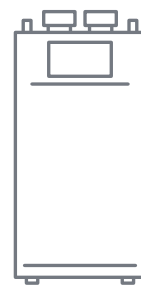
A hybrid heating dual fuel system can protect homeowners from rising utility costs. These systems are a combination of an air source heat pump (ASHP) or ground source heat pump (GSHP) with a gas/propane furnace.

They improve ASHP and GSHP performance by relying on a propane furnace (typically a high efficiency unit) during colder winter periods.

The overall heating system is more energy efficient, provides greater comfort, and has a smaller carbon footprint.

A hybrid system comprised of an ASHP and a high efficiency propane furnace can save nearly \$400/year compared with a standard efficiency ASHP-only system.

## HIGH EFFICIENCY BOILERS



High efficiency boilers are lowering costs and adding value to homes across the country. They offer efficiency, space savings, and the versatility to provide heating, hot water, and even snow melt.

There are a number of types of heating delivery systems with propane boilers to meet specific home needs.

Propane boilers are available in a wide range of heating capacities, with inputs reaching as high as 299,000 Btu/h. Many Energy Star rated propane boilers have an efficiency rating of at least 85 AFUE, and those ranked Most Efficient by the EPA offer up to 19 percent savings over standard efficiency boilers.

## TANKLESS WATER HEATERS



Propane tankless water heaters provide comfort, versatility, convenience, and efficiency by supplying high volumes of hot water with compact and highly innovative technology. These systems eliminate standby energy losses that occur in storage tank systems because they only heat water on demand.

They're compact in size, provide superior energy efficiency, and deliver an endless supply of hot water.

A tankless system can average a flow rate of about 222 gallons/hour, whereas a standard 50-gallon electric storage tank water heater can deliver only 62 gallons of hot water in the first hour. The notable difference in performance can mean taking a hot shower or a cold shower.

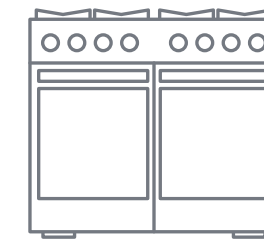
## STORAGE TANK WATER HEATERS



Compact in size and equipped with leading features like electronic ignition and highly insulated tanks, Energy Star qualified propane storage tank water heaters offer superior value to comfort-seeking homeowners. They are a versatile, efficient, and reliable hot water solution, with a wide range of capacities to meet demands for any home.

While they are more compact in size than electric units, they are not small on performance: A 50-gallon propane unit delivers the same amount of hot water as an 80-gallon electric unit.

## RANGES AND OVENS



Propane cooking equipment provides convenience, sharp design, and excellent performance in any kitchen. An attractive, stainless steel gas range that combines a propane cooktop and oven is perfect for space-challenged homeowners.

Propane also offers commercial-grade ranges, indoor grill and cooktops, in-wall double ovens, and other gas cooking applications in luxurious custom kitchens.

And with gas cooking being the choice of professional chefs, it's no wonder homeowners love the performance and precise temperature control offered in a wide variety of propane cooking equipment.

## CLOTHES DRYERS



Propane clothes dryers offer homeowners an efficient, convenient, and environmentally friendly laundry solution.

Compared with electric dryers, a propane unit will dry clothes faster and relax wrinkles better due to hot air with more moisture. They also offer the latest innovations such as steam cycles to de-wrinkle and freshen garments, drum lights to better see into the unit, and LCD control screens for greater ease of use.

There are different capacities of propane dryers available, with output levels generally much higher than electric dryers. However, propane dryers can still save about 20 percent annually on energy costs.

## FIREPLACES



Propane fireplaces offer homeowners true versatility. They can be installed indoors or out, and are significantly more energy efficient, environmentally friendly, and easier to install and use than wood-burning models. Plus, an attractive real flame brings warmth and ambience to a living space, increasing its value with buyers. Additionally, many models can operate and continue to deliver heat during electrical power outages.

Propane fireplaces offer efficiency ratings of over 90 percent, whereas wood-burning fireplaces are about 15 percent efficient. They also deliver five to six times the heating capacity of electric fireplaces.