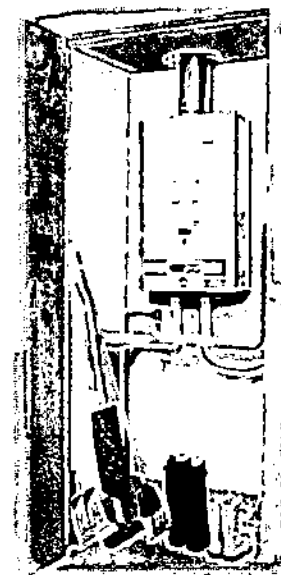


# *Benefits & Advantages of Propane Tankless Water Heaters*



# What are the Benefits of a Propane Tankless Water Heater?

## *Flexible – Adjusts to any family's needs:*

- An endless supply of hot water on demand (*versus 24/7 heating and reheating of electric storage water heaters*).
- Propane can cost up to 60% less to operate than electric.
- Gas Tank/ Electric Tank/ Propane Tankless recovery time.
  - Natural Gas ..... 38 minutes
  - Electric ..... 60
  - Propane Tankless ..... 0
- Qualifies for the federal (*Energy Star*) stimulus package tax credit.
- Tankless units are estimated to last up to 20 years.

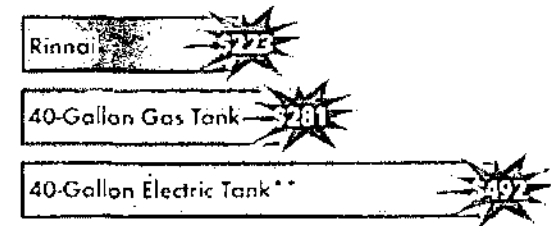
# Advantages of Propane Tankless Water Heaters

## Endless Hot Water

Never take another cold shower again! Propane tankless water heaters *heat water on demand*, so you're never limited to a fixed pre-heated supply as with a tank. You'll enjoy hot water when you want it, for as long as you need it. Take a shower, wash dishes and do laundry all at the same time!

## Energy Costs

With propane tankless water heaters, you'll enjoy *up to 60% energy savings*<sup>1</sup>. That's because these units are designed to be highly efficient and only heat water when it's needed. When the demand for water ceases, the unit shuts down and uses no energy, a revolutionary advantage over inefficient tank-style heaters.



\* ESTIMATED ANNUAL ENERGY COST

## Performance & Longevity

With a propane tankless water heater, you get the durability and reliability of a commercial-grade copper heat exchanger and an industry-leading 12-year limited warranty on the heat exchanger. Plus, propane tankless water heaters have a *typical life span of 20 years* or more installed in residential applications, up to twice as long as a conventional unit.

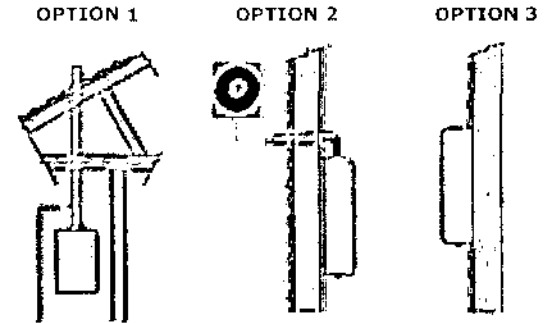
## Clean, Fresh Water

When using a traditional tank-style water heater, rust and scale build-up can collect in the interior of the tank where the hot water you use day-to-day for bathing and drinking is stored. Propane tankless water heaters have no tank to store water, so you'll *always experience fresh, clean, hot water* because these units heat water on demand as it passes through the unit.

# Advantages of Propane Tankless Water Heaters

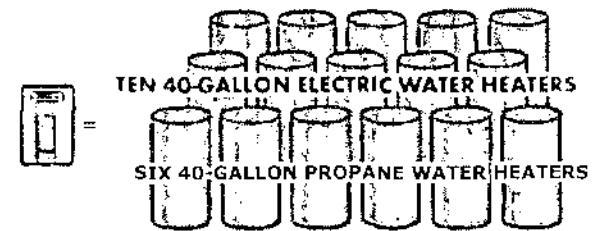
## ***Space Savings & Flexible Installation Options***

*Reclaim precious space in your home.* Traditional tank water heaters can take up to 16 square feet of valuable floor space. Propane tankless units are *about the size of a carry-on suitcase* and *installed on virtually any wall inside or outside* of your home.



## ***More Capacity***

Meeting increased hot water demands can be a challenge for traditional tank-style heaters, however with propane tankless water heaters, *you'll never run out of hot water.* Tankless water heaters can be used individually, in pairs, or in banks of three or more for residential, commercial and multi-family applications.



## ***Peace of Mind***

With propane tankless water heaters, there's no tank to leak or break, thus reducing the risk of flooding. Plus, tankless water heaters offer controllers that make it easy to set water temperatures precisely for multiple locations in your home to ensure comfort and prevent scalding accidents.

# Environmental Advantages of Tankless Water Heaters

Replacing an electric water heater with an Energy Star-qualified propane tankless water heater can cut greenhouse gas emissions by more than **75 percent!**



*A tankless water heater can last up to TWICE as long as an electric storage water heater.*

## The Three Environmental "R"s

**Reduce**

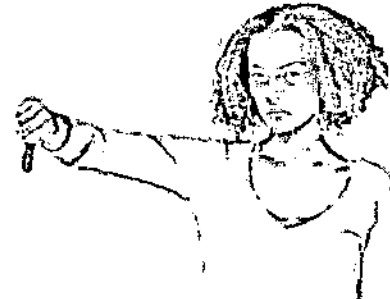
- ✓ Durable
- ✓ Long Lasting

**Reuse**

- ✓ Repair
- ✓ Replacement Parts

**Recycle**

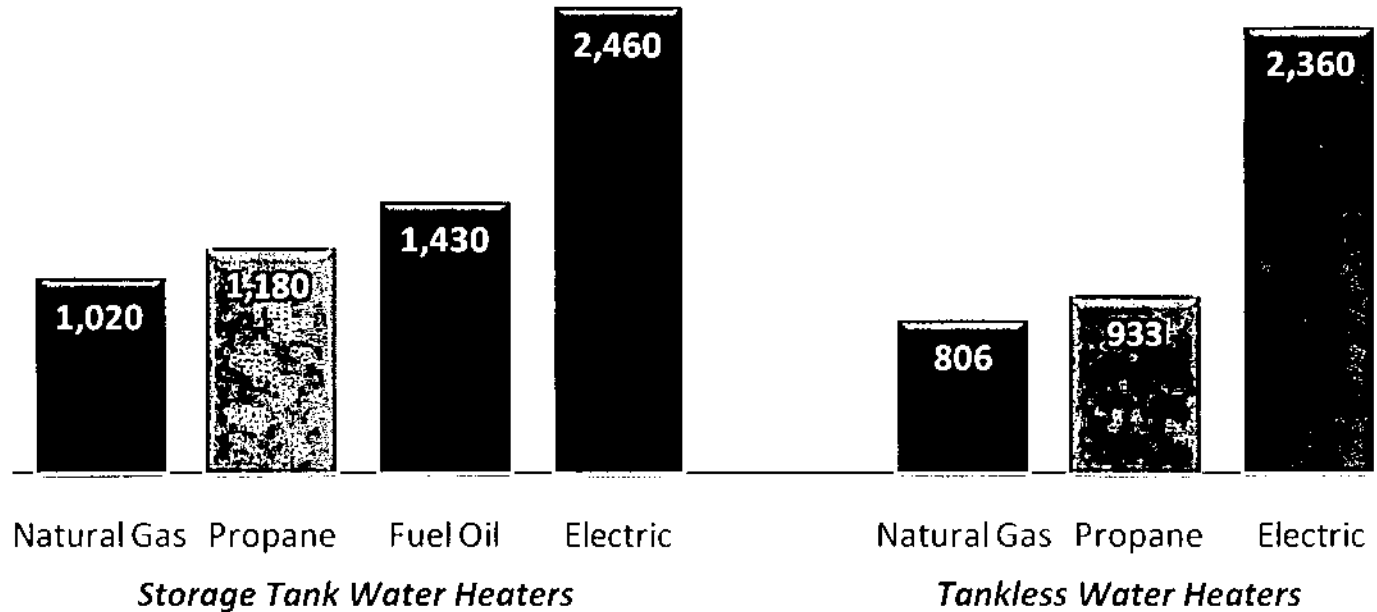
- ✓ Components Made Up of Recyclable Materials



*7.3 million conventional storage water heaters are disposed of in landfills each year.*

# Energy End-Use & Climate Change Comparison

Annual Life-Cycle Greenhouse Gas Emissions Per Unit  
(kg CO<sub>2</sub> equivalent per unit per year)



# Comparing Conventional Electric Storage Water Heaters to Tankless Water Heaters

## Electric Storage Tank Water Heaters

- Second highest energy cost in homes.
- Accounts for 20% of a homes' energy costs.
- Least expensive type to purchase/ Most expensive to operate.
- Holds between 20-80 gallons (*average: 40 gallons*).
- Only 70% of tank is hot at any one time (*i.e., 50 gallon tank = 35 gallons of hot water*).
- High Standby Heat Loss – due to constant heating of water in the tank (*even when the tap is not running*).
- Has a high storage recovery time.
- Stored water can lead to rust build up, which can lead to tank leakage.
- Service life = 10 to 15 years.
- Floor space needed = 12 to 16 square feet.

## Propane Tankless Water Heaters

- No additional energy wasted to keep stored water heated.
- Reduces annual energy costs by 30-50%.
- Supplies endless hot water on demand (*5 to 10 gallons per minute*).
- Heats to desired temperature in 5 seconds.
- Continuous supply of hot water, due to no storage recovery time needed.
- No standby heat loss, due to water on demand.
- Reduces CO2 emissions by up to 60%.
- No water storage = No rust buildup (*Water is always Fresh & Clean*).
- No rust = No tank leakage/corrosion.
- Service life = +20 years.
- Floor space needed = 0 square feet, wall mounted inside or outside of residence.

# Electric vs. Propane Water Heater Comparisons

## 1<sup>st</sup> Hour Rating

- Energy required to return water to its set temperature.
- Volume of water produced under worst conditions.
- Higher number = Best first hour rating.

	<i>Energy Source</i>	<i>1<sup>st</sup> Hour Rating</i>	<i>Annual Fuel Costs*</i>
50 gal Storage Tank	Electric	51	\$450
50 gal Storage Tank	Gas	73	\$196
80 gal Storage Tank	Electric	85	\$550
75 gal Storage Tank	Gas	91	\$365
6 Gallons per Minute (GPM) Tankless	Propane	240	\$176



# Electric vs. Propane Water Heater Comparisons

		Propane Tankless Water Heater	Electric Storage Tank Water Heater
<b>1<sup>st</sup> Hour Rating</b>	✓	240	51
<b>Power</b>	✓	Automatic ON/OFF NO Pilot Light	ALWAYS ON
<b>Recovery Rate</b>	✓	240 Gallons/Hour	20 Gallons/ Hour
<b>Floor Space Needed</b>	✓	NONE Wall Mounted	12-16 Square Feet
<b>Service Life</b>	✓	20 Years	10 – 12 Years