

Energy-Efficient Water Heating Options

tankless gas **WATER HEATER**

- Tankless (or on-demand) water heaters can reduce your hot water heating costs by 50%
- Get endless hot water that doesn't run out like the conventional tank system
- On-demand hot water heating systems can last 15 years or longer, compared to an average of 10 years for a traditional tank system



MINIMUM EFFICIENCY STANDARD TO QUALIFY FOR FEDERAL TAX CREDITS				
Natural Gas, Oil or Propane Tankless Water Heater		Energy Factor ≥ 0.82 or a thermal efficiency of at least 90%		
ROI (return on investment) FOR TANKLESS WATER HEATERS ¹				
Payback Time in Years	Added Cost	Annual Savings	10-Year Savings	Annual ROI
3.8	\$450	\$120	\$1200	26.7%

heat pump **WATER HEATER**



- Electric heat pump water heaters are two to three times more energy efficient than conventional electric resistance water heaters
- This type of water heater pumps heat from the surrounding air and concentrates it in the water tank (which cools the air around it)
- Can be retrofitted to an existing air-source heat pump

MINIMUM EFFICIENCY STANDARD TO QUALIFY FOR FEDERAL TAX CREDITS				
Electric Heat Pump Water Heater	Energy Factor ≥ 2.0			
All ENERGY STAR heat pump water heaters will qualify.				
ROI FOR HEAT PUMP WATER HEATERS ²				
Payback Time in Years	Added Cost	Annual Savings	10-Year Savings	Annual ROI
5	\$1000	\$200	\$2000	20%

Energy Factor (EF) is the ratio of useful energy output from a water heater to the total amount of energy delivered to the water heater. The higher the EF is, the more efficient the water heater. 2011 federal tax credits are limited to 10% of costs (up to \$500) with certain provisions and exceptions; check with your tax professional for guidance on all tax matters. ¹The ROI Calculation is based on a system that produces 7 gallons of hot water a minute - enough for two showers and an appliance such as a dishwasher or clothes washer to run simultaneously. ²ROI calculations are based on saving \$75 a month over 4 months of the heating season. The calculations come from GreenandSave.com, and are based on comprehensive local and national research and a combination of reports from the U.S. Department of Energy, the EPA, ENERGY STAR® for Homes Program, US Green Building Council's LEED for Homes Program, American Council for an Energy-Efficient Economy (ACEEE), International Energy Conservation Code, PLUS information directly from University Studies, Architects, Manufacturer Specifications, Distributors, seasoned Builders and Installers, and Homeowners with actual Performance Feedback.



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