





<http://waterheatertimer.org/Pro-and-con-tankless-water-heater.html>

2011		Pro and con tankless water heater			http://waterheatertimer.org/pro-n-con.html			
Type of heater	Saves energy	Unlimited hot water?	Easy to convert	Water pressure	Particulate in water	Life Expectancy	Can be integrated with solar, geothermal, heat-pump or other energy source	Temperature adjustment
Whole house tankless electric 	No savings Can cost more. Hard for electricity to heat water as water rushes past in pipe. See image	-Yes- When unit not undersized with optimal conditions -Not consistent with saving energy or water -No hot water in power outage	No, - Requires 90-120 Amps - Typical home electric service is 150-200 Amps (check main breaker to see amps of your service) - Upgrade service panel to convert to tankless electric. -Homeowner install not recommended	1/2-3/4 gal per minute water flow before heater turns on Low pressure causes tankless to shut off elements	High tech sensors will clog and fail in 2 years without softener Read .pdf Susceptible to lime build-up. De-lime each year	Claims of longer life not backed by warranty. No warranty without plumber trained by specific manufacturer. Require surge protector	No -Cannot store heat from other source <u>Cannot heat and store water during off peak</u> -Always demand fossil fuel	-Temperature adjustment with dip switches. Read Page 4 Adjusting temperature can shut down elements if water cannot heat fast enough.
Whole house tankless gas 	Saves \$1-\$8 per month See hidden costs	-Yes- When unit not undersized with optimal conditions -Not consistent with saving energy or water - No hot water in power outage	No, Requires 1-1/4" gas pipe Requires air intake pipe Requires stainless-steel flue Requires 110V electric line Requires professional installation Located farther from faucets -Homeowner install not recommended	1/2-3/4 gal per minute water flow before heater turns on Low pressure causes tankless to shut off burner	High tech sensors will clog and fail in 2 years without softener Read .pdf Susceptible to lime build-up. De-lime each year	Claims of longer life not backed by warranty. No warranty without plumber trained by specific manufacturer. Not protected by FVIR Require surge protector	No -Cannot store heat from other source -Always demand fossil fuel	-Temperature adjustment with dip switches. Read Page 4 Adjusting temperature can shut down burner if air, fuel and vent don't match.
Regular electric water heater 	You can save 4-9% operating cost by insulating tank See how	<u>Can heat and store water during off-peak</u> -Heats 21 Gal per hour See chart - Stored hot water available any time.	Regular electric water heater can be installed by homeowner	Hot water available with any flow or pressure <u>Allows water conservation</u>	Regular flushing maintains tank See how 'Self-cleaning' tanks available Corrosion-fighting anode rod inside each unit	6-12+ years -No extended warranty without professional installation. -Homeowner can diagnose and repair same day using locally-available interchangeable parts	Yes -With minor pipe changes, storage water heaters store heat gathered from other sources See options	-Simple to adjust temperature. Read
Regular gas water heater 	You can save 3-5% operating cost by lowering thermostat 10° See how	-Heats 41 Gal per hour See chart - Stored hot water available any time	Regular gas water heater can be installed by homeowner How to install gas water heater	Hot water available with any flow or pressure <u>Allows water conservation</u>	Regular flushing and clean burner maintains tank See how 'Self-cleaning' tanks available Corrosion-fighting anode rod inside each unit	6-12+ years No extended warranty without professional installation. Homeowner can <i>usually</i> diagnose and repair using locally available parts Protected by FVIR	Yes -With minor pipe changes, storage water heaters store heat gathered from other sources See options	-Simple to adjust temperature. Read

