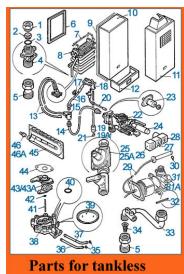
## http://waterheatertimer.org/Pro-and-con-tankless-water-heater.html

2011		Pro and con tankle	ss water heater	http://w	aterheatertimer.or	g/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 consistant 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 electricHomeowner 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 Succeptable 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  Cannot heat and store water during off peak  -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 consistant 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 Succeptable 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 proteced 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	Can heat and store water during off-peak  -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 Allows water conservation	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 installationHomeowner can diagnose and repair same day using locally- available interchangable 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  Allows water conservation	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 usually 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









Pressure sensor fails after 2 years

Tankless cannot be exposed more than 11 grains hard water

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