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# *Water heaters the forgotten appliance*

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# Overview

- Facts about your water heater
- Savings potential with incentives to purchase in 2017
- Future steps



# *Water Heaters*



- Generally last 8-14 years
- Everyone ignores it – until it fails!
- All PKW units have standard electric water heaters

# *Different Ways to Heat Water*



Great for Coffee  
and Tea.  
Not for your  
bath.



**Electric Resistance**  
~\$425/yr



**Heat Pump Water Heater  
(HPWH)**  
~\$175/yr

**SAVE: ~\$250/year**  
**\$2500 over 10 years**

# *How is a HPWH different from what you currently have?*

- Quiet fan noise
- Blows cold, dry air into garage
  - Does NOT need to be vented outside
- Generates small amount of condensate (water)
  - Must be drained to the outside (penetrates exterior wall of garage)
- Electronic controls – digital display, vacation mode, etc.

# Rebates/Tax Credits for Heat Pump Water Heaters

Markdown	Amount
Energy Trust of Oregon instant rebate	\$300
State of Oregon tax credit	\$600 (likely gone in 2018)
Federal tax credit	\$300 (your guess is as good as mine)
Various manufacturer mark downs	various

# *Regulations/Codes*

- 2015 Federal regulation **REQUIRES** HPWHs for anything larger than 55 gallons
  - Don't let a plumber downsize your tank!
- Expansion tank now required for all installs
  - adds several hundred dollars to costs



# Approximate Costs

Unit	Approximate Costs (after incentives/credits)
Standard Electric 50 gallon	\$1300
HPWH 50 gallon	$\$2000 - \$1200 =$ \$800
HPWH 65 gallon	$\$2400 - \$1200 =$ \$1200
HPWH 80 gallon	$\$2700 - \$1200 =$ \$1500

# *Now What?*

- Working to get at least 3 quotes from plumbers who have pre-inspected our units
  - Will make these available to homeowners within 1 month
- Working with board to get pre-approval for installation of condensate drain through exterior wall
- Consider pre-emptive water heater replacement

*Questions?*



## *For more info...*

- Contact me: [davekresta@gmail.com](mailto:davekresta@gmail.com)
- <https://hotwatersolutionsnw.org/>
- <https://www.energytrust.org/incentive-groups/water-heating-purchased-at-retail/#tab-two>
- [https://www.energystar.gov/about/federal\\_tax\\_credits/water\\_heaters\\_non\\_solar](https://www.energystar.gov/about/federal_tax_credits/water_heaters_non_solar)