

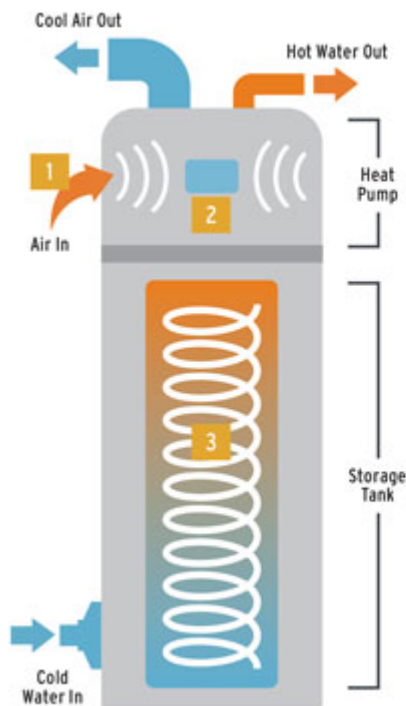
Heat Pump Water Heaters

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Would you like to cut your water heating energy costs by up to 67%? Upgrade to a heat pump water heater (HPWH), which is twice as efficient as a standard electric water heater. Heat pump water heaters use electricity to move heat from the air and transfer it, at a higher temperature, into the tank to heat the water. Our Heat Pump Water Heater Program provides rebates and quality assurance to City of Port Angeles customers who install qualified models.

Save Energy & Money

- **A heat pump water heater has a unique control panel** that offers more flexibility than a standard electric water heater. You can easily set the temperature and change operation modes to maximize efficiency.
- **Rather than generating heat directly**, the heat pump water heater saves energy by moving heat from the surrounding air into the water in the tank. Supplemental electric heating elements are used only when needed.
- **Dial in efficiency.** Guests staying over? Going on vacation? The control panel on a heat pump water heater allows you to choose the setting that best fits your needs.



How Does it Work?

By transferring heat rather than creating it, heat pump water heaters deliver hot water twice as efficiently as standard electric water heaters.

- 1 The heat pump pulls warmth from the air, even if the air is cool
- 2 Warm air is compressed, increasing its temperature
- 3 Heat flows through condenser coils that transfer heat to the water

Rebate Amounts

- **Tier 2-3 - \$1600 Rebate;** Tanks can be installed by a homeowner or a qualified installer
- **Tier 4 - \$1800 Rebate;** Tanks can be installed by a homeowner or a qualified installer

Program Requirements

- Heat pump water heaters must meet efficiency requirements. Visit https://www.bpa.gov/EE/Sectors/Residential/Documents/BPA_HPWH_QPL_effective_10_01_15.pdf for a list of qualifying units.
- Heat pump water heaters may be installed in newly constructed homes, or replace an existing electric storage water heater.

Things to Consider - All Heat Pump Water Heaters

- **Space** - Heat pump water heaters require up to 1,000 cubic feet of air-flow around them. This is the equivalent of a 10'x10'x10' of space.
- **Sound** - Heat pump water heaters generate sounds similar to a hood fan. Consider if this noise can be heard from your bedroom or main living area.
- **Cold air** - While in operation, heat pump water heaters release cool, dry air into the surrounding space.
- **Size** - Heat pump water heaters are slightly larger than standard electric water heaters.
- **Ducting** - Some heat pump water heaters will be installed in a location that will require ducting to the outside.
- **To vent or not to vent?** Tier 2 HPWHs can be vented directly to the outside so that they do not cool the air around the water heater. If a Tier 2 tank is not vented, it will require up to 1,000 cubic feet of air space. This is roughly equivalent to a 10'x10'x10' room.

Step-by-Step Process

1. **Decide on Purchase/Installation** - Decide whether to install your new heat pump water heater yourself or whether to have it installed professionally.
2. **Install Your Heat Pump Water Heater** - Forward a completed Heat Pump Water Heater Rebate Application Form and an invoice to us for review.
3. **Receive Your Rebate** - We will process your rebate within three weeks of completing on and receiving all of the required paperwork.

**Contact us for more information at 360-417-4715 or
conservation@cityofpa.us**