

Aquanta Water Heater Technology

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Phil Luther

It is well known, and the U.S. Department of Energy informs us this too, that heating water uses about 18 % of the regular home's annual energy consumption. The only other house appliance that makes use of more is the heating and cooling system. With the common storage tank water heater that many homeowners use, it is maintaining 40 to 50 gallons of water hot all day no matter when it is being utilized. Typically with this situation, 20 to 50 percent of the power being utilized is completely thrown away. Just what are some options to aid suppress this power loss? The company Aquanta, use to be called Sunnovations has actually been working on a feasible remedy for numerous years.

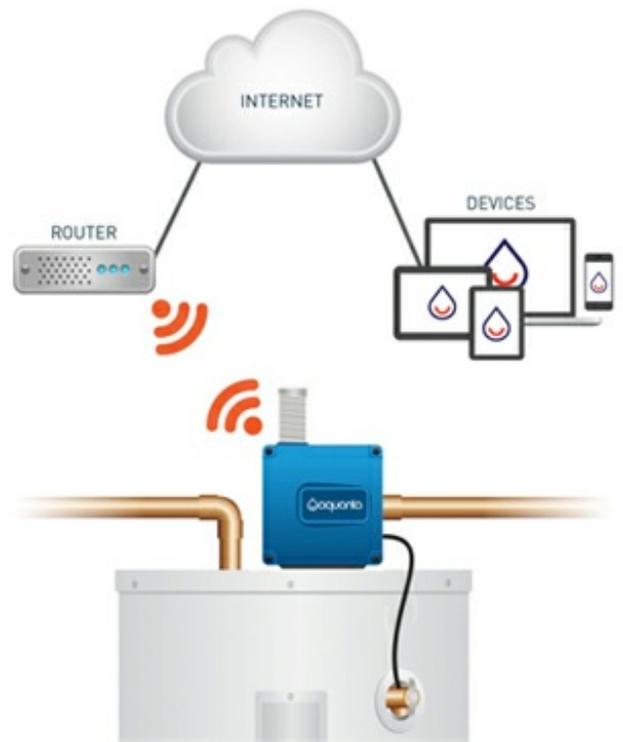
Sunnovations had a crowd-funding campaign in 2014 that did not get to its full funding yet that is fine with them for they were able to garner bunches of interest from distribution companies that has actually proved fruitful with a 2nd attempt now. Aquanta is currently taking pre-orders on a brand-new smart water-heater controller, which they believe will be delivering in July this year.

Aquanta's CEO Matthew Carlson states that the company's new technology has been field tested for over a year currently. It is surprising that other companies have not started working on a comparable gadget, particularly with the first crowd-funding campaign ... despite it not being successful for them originally. Because hot water heater typically have a life of 8 to 12 years, it is not rational to replace it when it is functioning okay, however just does not have all the modern-day technology that a brand-new hot water heater might have. Several new hot water heater designs are utilizing smart modern technology features, yet there is absolutely nothing that will function with any type of current hot water heater to "make it smart." Sears just recently put out a water heater controller that will work on several of its versions, however not all of them and not on different companies water heaters.

The only other gadget that is only a little comparable is a hot water heater timer. However it functions like a timer, turning the heater (and only electrical hot water heater) on and off at specific times of the day; and not using smart technology.

Among the features of the Aquanta technology is it will certainly "learn" exactly what the water use patterns are inside the home. Most people have the tendency to shower, operate the dishwasher and various other hot water using devices around the very same time of day. The device will function to adjust the water heater's temperature to satisfy the demand during peak times, and lower the power usage during non-peak times.

The Aquanta will be located on top of a water heater. A probe is set up behind the T&P valve port and after that the probe is connected to the controller. A second sensor gets taped to the cold water supply. An optional 3rd probe is developed to detect if there is a water leak from the water heater also.



Finally, the controller needs to be attached to a Wi-Fi network and property owners will install the smartphone app on a phone. The controller links to Aquanta's cloud-based server and begins its job of finding out the house's hot water usage patterns. It is likewise possible to manually enter in the water use pattern too. So, it could manually and automatically regulate the heater's energy use.

It is developed so DIY homeowner can handle the setup him or her self. If a property owner doesn't feel up to the activity, a plumbing expert can absolutely help the company mentions. Aquanta approximates it taking about 40 minutes for a property owner to complete the install.

The system will connect with the majority of hot water heater, despite the energy kind. It depends on the power source if it will certainly work or not. There should be an electronic ignition system, which most all more recent hot water heater will have. Old gas heaters may not however. Absolutely take a look at the compatibility details on the company's website right [here](#) to see.

Precisely how much power, and then equated into money, can a home owner conserve with the unit? Right here is exactly what Aquanta claims on their website: "our data suggest that at least 20% and up to 50% of that energy in a typical home is wasted through 'standby loss'. We are being careful to not overpromise, and have 3rd party testing underway to more specifically quantify the saving opportunity. However, our internal studies and modeling suggest that between 10-30% of water heating energy can be saved by intelligent control through Aquanta. The economic value of intelligent control of water heaters is much higher when factoring in peak or time-of-use pricing and utility peak demand reduction and similar incentives." ([read more here](#))

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