

# Case Histories

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## With New Recirculating Technology, There's No Wait For Hot Water

The home in Phoenix was a guzzler, for sure. Water, that is. The family of four felt they were frugal with their use of the natural resource, but information from the water utility showed otherwise. "It's like we had a big leak," said the lady of the house.

That's when Derek Sajdak, a licensed master plumber and owner of Phoenix-based Aqua Science, suggested the installation of a Grundfos Comfort System for recirculation of domestic hot water within the home. They quickly agreed and saw immediate results.

It's known that an average family of four wastes about 12,000 to 16,000 gallons of water a year because of the unnecessary wait for hot water to reach showers and faucets. In larger homes, with more faucets and showers, and longer water lines between the water heater and distant bathrooms, the amount of water that's wasted can be much higher than that. In most cases, homeowners not only pay for the water that goes down the drain, but to get rid of it as well.

The phrase that sums up the essence of this new technology is "constant circulation" of domestic water within the home. Grundfos now offers inexpensive technology that prevents the wait for hot water, and the waste.



**Ready To Retrofit – An Easy Fix:** Comfort System technology from Grundfos is the latest in hot water recirculation (HWR) solutions. The system is a one-pump, one-valve combo that's typically installed by a professional within an hour or two — without the need to install a return line to the water heater, and without the need for an electric connection outside the mechanical room. The unit provides greater convenience and comfort,

delivering hot water instantly from any water source within the home.

There's a timer on the pump to make it more efficient during evening and mid-day downtime — homeowners can dial-in what time they want the system to be operational. The unit begins working when the timer-activated pump at the hot water tank pushes hot water toward a valve beneath the furthest fixture in the house. The valve connects the hot and cold water supply lines.

As long as the water in the hot line remains cold, the valve stays open and the cold water is sent back to the heater through the cold water line. Hot water stands ready to come out when the tap is turned on.

**For New Construction – An Even Easier Solution:** The UP10-16 pump by Grundfos is designed for new home installations, when a dedicated return line is installed by the plumbing contractor, completing a separate recirculation loop. The one-piece HWR solution is easily installed at the water heater. (For more information on either system, go to [www.waitnot.com](http://www.waitnot.com).)

"Both of these solutions circulate water back to the heater, so it's always hot and comfortable from the moment it's needed at the tap or shower," says Sajdak.

**Circle 352**