In both methods a small motor is placed at the hot water heater unit. The motor may be controlled by a remote control capability, such as is used with an automatic garage door, or by continual ON and OFF settings of a digital time clock with battery backup. Either the remote control or the digital time clock provides the actual turn ON and OFF of the water pump assembly.

SAVING WATER AND MONEY:

Water savings of 15 to 25 gallons per day is natural with most families and has the meaning of "money saved" due to continual increase of the cost of water, plus the electric or gas energy needed to heat that water. For example: most families who are at home 350 days per year and save 15 gallons per day can save about 6,000 gallons per year. Larger families may save 25 gallons per day at an estimated 9,000 gallons per year.

CALCULATING YOUR SAVINGS:

Use this method to calculate the cost of how much water and money you would save by installing a Circulating Hot Water System. You will need two measuring cups and a watch or clock. Go to the most distant hot water faucet in your home. Look at your watch as you turn the hot water faucet on. Using your two measuring cups, fill and dump the water as it comes out of the faucet until it turns hot, keeping count of each cup filled and record it. Quickly look at your watch and record the time it took. Then count the times each day the hot water would be needed at that faucet. Multiply the number of cups measured by the times needed to find how many cups of water are wasted at that faucet per day. Do the same for each hot water faucet in the house. Add up the amounts wasted at all water faucets each day and then multiply them by the number of days in the month. Use your water bill to calculate the cost of how much you could be saving per month, and per year.

SOUTHWESTERN TOWN WATER CONSERVATION PROGRAMS

The population growth in the Southwestern part of the United States coupled with combined problems of water shortage will be a forever problem and must be stopped. To promote the savings of water many towns and cities now offer rebates for installing systems that would save water in your home. Rebates often vary from $50.00 to $150.00 per home. You can check with your local government offices to find rebates that might be offered in your area.

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Hot Water System
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Instant Hot Water
Throughout the Home

Two distinct methods of Circulating Hot Water exist today, with the latest in both mechanical and electronic technology.

The Check Valve Method: The Check Valve Method utilizes the existing standard home plumbing system. Options A and B shown at the right are examples of the Check Valve Method. Diagram B enlarges different components of the system so you can see how they work together to heat the water and bring it to each spicket. The Demand System is designed to move hot water from the hot water heater to your most remote fixture within your home. At the push of a button the cold water you normally let run down the drain is re-circulated back through the cold water lines as hot water is filling the hot water lines to your faucet. When the hot water arrives at the hot/cold exchange valve the system automatically shuts off.

The Return Line Method: The Dedicated Return Line Method, shown in Option C, negates the need for a hot/cold interchange to be installed under the sink, but requires additional pipe to be installed from the furthest sink to the hot water heater. This addition can be quite expensive when considering not only the pipe itself but repair of the walls afterward. This line may already have been installed in some newer homes as it was being built.