SETS Systems

* HOMEOWNER MANUAL *



without the tank
without the wait
without the cost

S.E.T.S. Systems

Tankless Water Heater System

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Last updated April 25, 2007

IMPORTANT USER INFORMATION

How to Operate and Adjust Your New Tankless Water Heater

When using your new tankless water heater that gives you endless hot water, you need to know that it does not work like a tank heater.

FIRST, there is no storage of hot water sitting in a tank waiting to be used, so when you want hot water you have to "DEMAND IT" and you do this by turning your hot water faucet on.

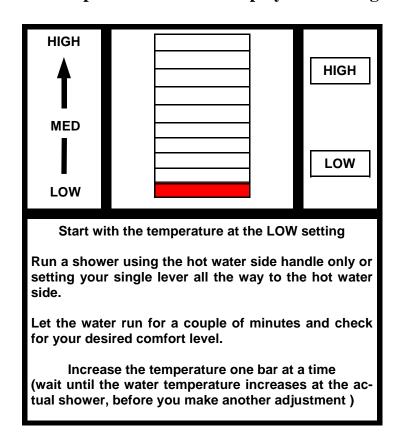
When someone else "DEMANDS" hot water while you are using it, you might have to turn your hot water faucet slightly towards the hot side in order to demand more hot water to compensate for the other user and then turn your faucet down when the other user is finished "DEMANDING" their hot water. If you live in an area of the country where inlet water temperatures average 55° F or you have normal winters, you will NOT be able to run several hot water applications at a time, you will however be able to run all your hot water applications back to back without ever having to wait. You will enjoy UNLIMITED HOT WATER.

You will get used to your NEW tankless water heater as quickly as you got used to using the tank water heater with one exception... YOU WILL NEVER RUN OUT OR HAVE TO WAIT FOR HOT WATER AGAIN... The concept or proper use of our unit is based on setting your hot water temperature to your specific needs. In other words, it is designed whereas the temperature can be set so the member of the family that takes the hottest shower will normally use the hot water handle only or set the setting all the way to the hot water side of the faucet. With your old water heater your hot water temperature was probably set at 130° or 140° F. You would normally turn on the hot water tap then mix it with cold water to lower the temperature. In other words you really did not need or would use that high of a temperature for your daily hot water mandate or needs. You are probably asking, how about my dishwasher? All newer model dish machines come with a heating element, and most clothes washing detergents are designed for use in cold or warm water anyway. There is no real reason to use or have 130° - 140° water and if you have small children or elderly persons in your household these temperatures can cause serious hot water scalding accidents. If you need or want these type temperatures, you most likely will require them in your kitchen, at which point you can attain a higher outlet temperature from our units by slowing or reducing the hot water flow in the kitchen sink.

After having your unit properly installed by a qualified plumber and electrician according to local codes, set the temperature as per attached instruction, SETTING TEMPERATURE CONTROL. This exercise or setting should be performed by the member of the family that takes the hottest shower or likes the hottest temperature.

Once the setting is set all other members of the family can mix the hot and cold water to meet their specific needs just as you did with your old water heater, except they will need to mix less cold water than they did before. If your house is equipped with separate cold and hot water faucet handles, the above exercise should be performed using the hot water handle only. This will ensure greater energy and water savings, since you will not need to use your cold water to lower the hot water temperature, and other members of your family will require a slight or lower mix of cold water to attain their specific or required temperature needs. WHEN USING WELL WATER OR A PUMP YOU MUST SET YOUR LOW END TO 40 AND HIGH TO 60 TO ENSURE A BALANCED PRESSURE AND PROPER OPERATION OF THE UNIT. Additionally, you will want to use a pressure regulator that maintains a constant 50PSI of pressure throughout.

Temperature Control Display and Setting



Once the unit has been installed and powered up, you need to set the control to your desired temperature. When you turn ON a hot water tap you will see the LED BAR GRAPH light up.

Set the temperature to MEDIUM (5th BAR ON LED DISPLAY). Turn on the water at the shower (showerhead) using the hot water handle only or setting all the way to HOT if you have a single lever.

Let the water run for about 1 minute, if the temperature is hotter than you normally shower with, lower the temperature by pressing ONCE on the LOW control knob or vice versa - if hotter temperature is desired press the HIGH knob once. Let the unit regulate and continue this process to set the temperature to the desired setting. This exercise or setting should be performed by the member of the family that takes the hottest shower or likes the hottest temperature. Setting the temperature correctly provides greater energy savings...

READ THIS FIRST TO BETTER UNDERSTAND

YOUR NEW TANKLESS WATER HEATER HOW TO PROPERLY ADJUST TEMERATURE AND ELIMINATE POSSIBLE WATER TEMPERATURE FLUCTUATIONS

Tankless Water Heaters are dependent on two (2) factors. One is INLET WATER TEMPERATURE (the temperature of the water going into the unit from the city or well) and the other is FLOW RATE (how much water is flowing or going through the unit at once).

All tankless water heaters are designed to operate efficiently at (2) gallons per minute, the reason a two (2) gallon per minute flow rate is used is due to the fact that all plumbing fixtures are Federally Mandated not to exceed certain specified flow rates such as 1.5 gallons per minute at the bathroom sinks, 2.2 gallons per minute at the kitchen sinks and 2.5 gallons per minute at the showers, all these flow rates are based on a pressure (psi) of 80 lb., if the water pressure is lower, then the actual flow rate will decrease.

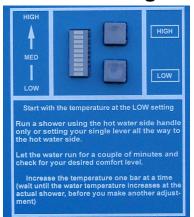
Most residential water pressures run between 60 and 65 lbs. (psi) and if on a well it is most likely 40 to 60 lb (psi), meaning that with these water flow restrictors in your bathroom, kitchen sinks and showers your actual flow rates are lower.

This lower flow rate can cause the water temperature to fluctuate and take a longer time to regulate and maintain a steady temperature. A tankless system when first turned on or when you first demand hot water goes full on, as water flows through the system it senses the outlet temperatures and adjusts itself accordingly, based on the setting of the temperature control knob you have set up. If the FLOW RATE or amount of hot water passing through the system is too low it will sense that it is going to a higher temperature than it is designed to safely maintain and in turn will lower the energy or power to lower itself, this process can go back and forth if the Flow Rate or amount of hot water is too low.

This fluctuation can easily be corrected by simply increasing the water flowing through the unit and this can be done by removing the water saver restrictors found in the bathroom, kitchen sinks and showers.

Increasing the flow rates will allow more water to flow through the system and eliminate the slower adjustment and fluctuations.

Adjusting Your Temperature Control Knobs Eliminating Possible Water Temperature Fluctuations.



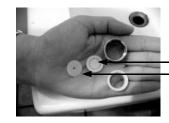
Turn on the water at the shower (showerhead) using the hot water handle only or setting all the way to HOT if you have a single lever.. Set the temperature to MEDIUM (5th BAR ON LED DISPLAY). Let the water run for about 1 minute, if the temperature is hotter than you normally shower with lower the temperature by pressing ONCE on the LOW control knob or vice versa - if hotter temperature is desired press the HIGH knob once. Let the unit regulate and continue this process to set the temperature to the desired setting. This exercise or setting should be performed by the member of the family that takes the hottest shower or likes the hottest temperature. Setting the temperature correctly provides greater energy savings...



In all of your plumbing fixtures you will find what is known as aerators. These are found on the end of your faucet. They are screwed in and can be removed. Once you remove them you will find the water saver restrictors which can also be easily removed to increase your water flow. These restrictors also get clogged up over a period of time and should be cleaned periodically to give you a better performance and higher flow.



1. Remove the aerators from the end of your faucet by unscrewing them.



5. Remove any restrictors from aerator.



2. You will find the water saver restrictors in the back of the aerators, most of them look like a button with tiny holes.



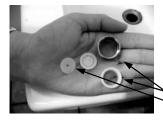
6. Use only the aerator base and the mesh filter.



3. Remove the water saver restrictor from the aerator. You might need a toothpick or pen to pop them out.



7. Place mesh filter back in aerator



4. Pull apart all the pieces from the restrictor. You will most likely have several pieces-Aerator base Mesh wire filter Two restrictors



8. Screw back aerator to faucet.



- S.... Space saving... save square footage that you pay for in the purchase of new homes.
- E.... Energy... save up to 50% on your water heating bills.
- T.... Time... use hot water endlessly never having to wait for the big tank to re-heat.
- S.... SAVINGS... energy, space, dollars, and time.

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