

TECHNICAL BULLETIN

BULLETIN 31

TEMPERATURE ADJUSTMENT - RESIDENTIAL ELECTRIC

SETTINGS

- Temperature range on residential electric water heater is from 90° F to 150°F, except for A7 circuit, which is 110°F to 170°F.
- The high limit opens at 170°F, 190°F with A7 circuit and can be manually reset.
- The water heater temperature is shipped with both thermostats factory preset at 120°F unless specified differently by state regulations.

SAFETY

The water heater is equipped with an adjustable thermostat to control water temperature. Hot water at temperatures desired for automatic dishwasher and laundry use can cause scalds resulting in serious personal injury and/or death. The temperature at which injury can occur varies with the person's age and time of exposure. The slower response time of disabled persons increases the hazards to them. Never allow small children to use a hot water tap, or to draw their own bath water. Never leave a child or disabled person unattended in a bathtub or shower. The following table shows the approximate time-to-burn relationship for normal adult skin.

<u>Temperature Setting</u>	<u>Time to produce a 2nd & 3rd degree burn to adult skin</u>
150° F	About 1-1/2 seconds
140° F	Less than 5 seconds
130° F	About 30 seconds
125° F	About 2 minutes
120° F	More than 5 minutes

ADJUST

The thermostats on your water heater have a linear relationship between degrees of angular rotation and the corresponding change in temperature. Thus, rotating the temperature adjustment indicator 30 angular degrees will result in a 10° F change in the water temperature. Follow these steps when adjusting the temperature:

- TURN OFF THE ELECTRICAL SUPPLY. Do not attempt to adjust thermostat(s) with the power turned on.
- Remove the thermostat access panels and foam covers from the thermostats. Do not remove the plastic personal protectors covering the thermostats.
- Using a flat tip screwdriver, rotate the adjusting knob to the desired temperature setting.
- Replace the foam covers and access panels, and turn on the heater's electrical supply.

NOTES

Valves for reducing point-of-use temperature by mixing cold and hot water are available. Also available are inexpensive devices that attach to faucets to limit hot water temperatures. Contact a licensed plumber or your local plumbing authority to obtain more information on these valves and devices.