ARTICLE 7
CONTROLS

HLW-700 CONTROLS

HLW-701 TEMPERATURE CONTROL

HLW-701.1 Each individual automatically fired water heater, in addition to the operating control used for normal water heater operation, shall have a separate high temperature limit control that will automatically cut off the fuel supply. The temperature range of the high temperature limit control shall cut off the fuel supply at or below the designed maximum water temperature as indicated on the water heater’s Manufacturer’s Data Report. This control shall be constructed to prevent a temperature setting above the maximum.

(a) On gas-fired water heaters, the high temperature limit control when actuated shall shut off the fuel supply with a shutoff means other than the operating control valve. Separate valves may have a common body.

(b) On electrically heated water heaters, the high temperature limit control when actuated shall cut off all power to the operating controls.

(c) On oil-fired water heaters, the high temperature limit control when actuated shall cut off all current flow to the burner mechanism.

(d) On indirect water heating systems, the high temperature limit control when activated shall cut off the source of heat.

ERRATA:
The committee APPROVED the deletion of this text under Record 18-327. As such, upon checking the proposal in Record 18-327 against what was published in the 2019 Edition, this was deemed as an Errata. See the second page for the Approved Proposal.

HLW-702 LIMIT CONTROLS

Limit controls used with electric circuits should break the hot or line sides of the control circuit.

HLW-703 CONTROLS AND HEAT GENERATING APPARATUS

(a) All water heaters should be equipped with suitable primary (flame safeguard) safety controls, safety limit switches, and burners, or electric elements as required by a nationally recognized standard.

(b) The symbol of the certifying organization that has investigated such equipment as having complied with a nationally recognized standard shall be affixed to the equipment and shall be considered as evidence that the controls and heat generating apparatus were manufactured in accordance with that standard.

HLW-704 ELECTRICAL WIRING

HLW-704.1 Electrical Code Compliance. All field wiring for controls, heat generating apparatus, and other appurtenances necessary for the operation of the water heater should be installed in accordance with the provisions of the National Electrical Code and/or should comply with the applicable local electrical codes. All water heaters supplied with factory mounted and wired controls, heat generating apparatus, and other appurtenances necessary for the operation of the water heaters should be installed in accordance with the provisions of the nationally recognized standards such as those of HLW-703.
HLW-700 CONTROLS

HLW-701 TEMPERATURE CONTROL

HLW-701.1 Each individual automatically fired water heater, in addition to the operating control used for normal water heater operation shall have a separate high temperature limit control that will automatically cut off the fuel supply. The temperature range of the high temperature limit control shall not allow a setting over 210°F (99°C).

(a) On gas-fired water heaters, the high temperature limit control when actuated shall shut off the fuel supply with a shutoff means other than the operating control valve. Separate valves may have a common body.

(b) On electrically heated water heaters, the high temperature limit control when actuated shall cut off all power to the operating controls.

(c) On oil-fired water heaters, the high temperature limit control when actuated shall cut off all current flow to the burner mechanism.

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The high temperature limit control shall cut off the fuel supply at or below the designed maximum water temperature as indicated on water heater’s Manufacturers Data Report. This control shall be constructed to prevent a temperature setting above the maximum.