



CEE RESIDENTIAL GAS HEATING INITIATIVE

High efficiency specifications for GAS FURNACES AND BOILERS

Effective February 1, 2010

(See Terms of Usage below)

Annual Fuel Utilization Efficiency (AFUE) Performance Levels

Technology	CEE Specifications (% AFUE)	Federal Minimum (% AFUE)
Gas-fired Furnaces	Tier 1: 90 Tier 2: 92 Tier 3: 94	78
Gas-fired Boilers	Tier 1: 85 Tier 2: 90	80

Air Handling (Electric Use) Performance Level*

Technology	CEE Specification
Gas-fired Furnaces, minimum of 90% AFUE	$\frac{3.412 * E_{AE}}{3.412 * E_{AE} + 1000 * E_F} \leq 2.0\%$

*This performance level is equivalent to $E_{AE}/E_F \leq 6$, and, in words, “the annual electricity use must be less than or equal to 2 percent of the total annual energy use.” There is no Federal minimum for furnace electricity use. E_{AE} (Annual Electricity Use) and E_F (Annual Fuel Energy Use) are outputs of the US Department of Energy test procedure for residential gas furnaces. Both EAE and EF are listed in the Air-Conditioning, Heating, and Refrigeration Institute Directory of Certified Product Performance (available at www.ahridirectory.org).

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