

Table I.1 Amended Energy Conservation Standards for Residential Water Heaters, Direct Heating Equipment, and Pool Heaters

Residential Water Heaters*		
Product Class	Standard Level	
Gas-fired Storage	For tanks with a Rated Storage Volume at or below 55 gallons: EF = 0.675 – (0.0015 x Rated Storage Volume in gallons)	For tanks with a Rated Storage Volume above 55 gallons: EF = 0.8012 – (0.00078 x Rated Storage Volume in gallons)
Electric Storage	For tanks with a Rated Storage Volume at or below 55 gallons: EF = 0.960 – (0.0003 x Rated Storage Volume in gallons)	For tanks with a Rated Storage Volume above 55 gallons: EF = 2.057 – (0.00113 x Rated Storage Volume in gallons)
Oil-fired Storage	EF = 0.68 – (0.0019 x Rated Storage Volume in gallons)	
Gas-fired Instantaneous	EF = 0.82 – (0.0019 x Rated Storage Volume in gallons)	
Direct Heating Equipment**		
Product Class	Standard Level	
Gas wall fan type up to 42,000 Btu/h	AFUE = 75%	
Gas wall fan type over 42,000 Btu/h	AFUE = 76%	
Gas wall gravity type up to 27,000 Btu/h	AFUE = 65%	
Gas wall gravity type over 27,000 Btu/h up to 46, 000 Btu/h	AFUE = 66%	
Gas wall gravity type over 46,000 Btu/h	AFUE = 67%	
Gas floor up to 37,000 Btu/h	AFUE = 57%	
Gas floor over 37,000 Btu/h	AFUE = 58%	
Gas room up to 20,000 Btu/h	AFUE = 61%	
Gas room over 20,000 Btu/h up to 27,000 Btu/h	AFUE = 66%	
Gas room over 27,000 Btu/h up to 46,000 Btu/h	AFUE = 67%	
Gas room over 46,000 Btu/h	AFUE = 68%	
Gas hearth up to 20,000 Btu/h	AFUE = 61%	
Gas hearth over 20,000 Btu/h and up to 27,000 Btu/h	AFUE = 66%	
Gas hearth over 27,000 Btu/h and up to 46,000 Btu/h	AFUE = 67%	
Gas hearth over 46,000 Btu/h	AFUE = 68%	
Pool Heaters		
Product Class	Standard Level	
Gas-fired	Thermal Efficiency = 82%	

* EF is the “energy factor,” and the “Rated Storage Volume” equals the water storage capacity of a water heater (in gallons), as specified by the manufacturer.

** Btu/h is “British thermal units per hour,” and AFUE is “Annual Fuel Utilization Efficiency.”

B. Benefits and Costs to Purchasers of the Three Heating Products

1. Water Heaters

Table I.2 presents the implications of today’s standards for consumers of residential water heaters. The economic impacts of the standards on consumers, as