



Water Heater Efficiency Guide

These tables list the minimum uniform energy factors required by federal regulations for some of the most common types and sizes of water heaters.

Consumer Gas-Fired Instantaneous ($> 50,000$ Btu/h, $\leq 200,000$ Btu/h) - Minimum UEF*

Volume (gallons)	Max Rating $0 \leq \text{GPM} < 1.7$	Max Rating $1.7 \leq \text{GPM} < 2.8$	Max Rating $2.8 \leq \text{GPM} < 4.0$	Max Rating $\text{GPM} \geq 4.0$
≤ 2	0.80	0.81	0.81	0.81

Consumer Gas-Fired Storage ($\leq 75,000$ Btu/h) - Minimum UEF*

Volume (gallons)	$0 \leq \text{FHR} < 18$	$18 \leq \text{FHR} < 51$	$51 \leq \text{FHR} < 75$	$\text{FHR} \geq 75$
30	0.29	0.54	0.60	0.65
40	0.27	0.52	0.58	0.64
50	0.25	0.50	0.56	0.63
55	0.24	0.49	0.55	0.62
60	0.61	0.74	0.77	0.79
75	0.60	0.73	0.76	0.78
80	0.60	0.73	0.76	0.78

Residential-Duty Commercial Gas-Fired Storage ($> 75,000$ Btu/h, $\leq 105,000$ Btu/h) - Minimum UEF†

Volume (gallons)	$0 \leq \text{FHR} < 18$	$18 \leq \text{FHR} < 51$	$51 \leq \text{FHR} < 75$	$\text{FHR} \geq 75$
50	0.22	0.48	0.55	0.61
60	0.21	0.46	0.53	0.61
75	0.2	0.45	0.52	0.59
80	0.2	0.44	0.51	0.59

Consumer Electric Instantaneous (≤ 12 kW) - Minimum UEF*

Volume (gallons)	Max Rating $0 \leq \text{GPM} < 1.7$	Max Rating $1.7 \leq \text{GPM} < 2.8$	Max Rating $2.8 \leq \text{GPM} < 4.0$	Max Rating $\text{GPM} \geq 4.0$
≤ 2	0.91	0.91	0.91	0.92

Residential-Duty Commercial Electric Instantaneous (> 12 kW, ≤ 58.6 kW) - Minimum UEF†

Volume (gallons)	Max Rating $0 \leq \text{GPM} < 1.7$	Max Rating $1.7 \leq \text{GPM} < 2.8$	Max Rating $2.8 \leq \text{GPM} < 4.0$	Max Rating $\text{GPM} \geq 4.0$
≤ 2	0.80	0.80	0.80	0.80

Consumer Electric Storage - Minimum UEF*

Volume (gallons)	$0 \leq \text{FHR} < 18$	$18 \leq \text{FHR} < 51$	$51 \leq \text{FHR} < 75$	$\text{FHR} \geq 75$
30	0.86	0.92	0.92	0.93
40	0.85	0.91	0.92	0.93
50	0.84	0.91	0.92	0.93
55	0.84	0.91	0.92	0.93
60	1.86	1.98	2.05	2.18
75	1.84	1.96	2.03	2.16
80	1.84	1.96	2.03	2.15

Tabletop - Minimum UEF*

Volume (gallons)	Max Rating $0 \leq \text{GPM} < 1.7$	Max Rating $1.7 \leq \text{GPM} < 2.8$	Max Rating $2.8 \leq \text{GPM} < 4.0$	Max Rating $\text{GPM} \geq 4.0$
30	0.46	0.83	0.89	0.94
40	0.40	0.79	0.87	0.92

*Values from Title 20, §1605.1 Table F-2

†Values from Title 20, §1605.1 Table F-5

Can't find your water heater type or volume?

Contact the Energy Standards Hotline at:

(800) 772-3300 (inside California)

(916) 654-5106 (outside California)

title24@energy.ca.gov

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