

**7.4.2 Efficiency Standards for Commercial Packaged Boilers****Effective for products manufactured between January 1, 1994 and March 1, 2012**

	<u>Combustion Efficiency (1)</u>
Gas-fired, with capacity $\geq 300,000$ Btu/hr	Not less than 80%
Oil-fired, with capacity $\geq 300,000$ Btu/hr	Not less than 83%

**Effective for products manufactured on or after March 2, 2012**

	<u>Size (Btu/hr)</u>	<u>Efficiency Level (1)</u>
Gas-fired, hot water	$\geq 300,000$ and $\leq 2,500,000$	80% thermal efficiency
Gas-fired, hot water	$> 2,500,000$	82% combustion efficiency
Oil-fired, hot water	$\geq 300,000$ and $\leq 2,500,000$	82% thermal efficiency
Oil-fired, hot water	$> 2,500,000$	84% combustion efficiency
Gas-fired except natural draft, steam	$\geq 300,000$ and $\leq 2,500,000$	79% thermal efficiency
Gas-fired except natural draft, steam	$> 2,500,000$	79% thermal efficiency
Gas-fired-natural draft, steam	$\geq 300,000$ and $\leq 2,500,000$	77% thermal efficiency
Gas-fired-natural draft, steam	$> 2,500,000$	77% thermal efficiency
Oil-fired, steam	$\geq 300,000$ and $\leq 2,500,000$	81% thermal efficiency
Oil-fired, steam	$> 2,500,000$	81% thermal efficiency

<u>Effective March 2, 2022</u>	<u>Size (Btu/hr)</u>	<u>Thermal Efficiency (1)</u>
Gas-fired natural draft, steam	$\geq 300,000$ and $\leq 2,500,000$	79%
Gas-fired natural draft, steam	$> 2,500,000$	79%

Note(s): 1) Measured at the maximum rated capacity.

Source(s): Title 10, Code of Federal Regulations, Part 431 - Energy Efficiency Program for Certain Commercial and Industrial Equipment, Subpart E - Commercial Packaged Boilers. January 1, 2010.