

# CEE Commercial Kitchens Initiative

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## High Efficiency Specifications for Commercial Steamers

Effective Date 01/19/2007

### Efficiency Requirements for Qualifying Products

Pan Capacity	Cooking Energy Efficiency (%)		Specification	Corresponding Base Specification for Energy Use only	Idle Energy Rate		Water Consumption (gal/hour)*
	Gas	Electric			Gas (btu/hour)	Electric (watts)	
3-pan	≥38%	≥50%	CEE Tier 1A	ENERGY STAR®	≤6250	≤400	≤15
3-pan	≥38%	≥50%	CEE Tier 1B	ENERGY STAR®	≤6250	≤400	≤4
4-pan	≥38%	≥50%	CEE Tier 1A	ENERGY STAR®	≤8350	≤530	≤15
4-pan	≥38%	≥50%	CEE Tier 1B	ENERGY STAR®	≤8350	≤530	≤4
5-pan	≥38%	≥50%	CEE Tier 1A	ENERGY STAR®	≤10400	≤670	≤15
5-pan	≥38%	≥50%	CEE Tier 1B	ENERGY STAR®	≤10400	≤670	≤4
6-pan+	≥38%	≥50%	CEE Tier 1A	ENERGY STAR®	≤12500	≤800	≤15
6-pan+	≥38%	≥50%	CEE Tier 1B	ENERGY STAR®	≤12500	≤800	≤4

\*Cooking Energy Efficiency and Water Consumption are based on heavy load (potato) cooking test

### Definitions

A. Steam Cooker: Also referred to as a “compartment steamer,” a device with one or more food steaming compartments in which the energy in the steam is transferred to the food by direct contact. Models may include countertop models, wall-mounted models and floor-models mounted on a stand, pedestal or cabinet-style base.

B. Cooking Energy Efficiency: The quantity of energy input to the food products; expressed as a percentage of the quantity of energy input to the appliance during the heavy-, medium-, and light-load tests. For purposes of this specification, heavy-load will be used as a measurement of energy efficiency.

C. Heavy (Potato) Load Cooking: The manufacturer’s stated capacity of 12 by 20 by 2½ inch (300 by 500 by 65 mm) perforated hotel pans each filled with 8.0 ± 0.2 lb (3.6 ± 0.1 kg) of fresh, whole, US No. 1, size B, red potatoes.

D. Idle Energy Rate: The rate of appliance energy consumption while it is maintaining or holding at a stabilized operating condition or temperature.

### Qualifying Products

Any commercial steam cooker that meets the definition above.

## Test Methods

Manufacturers are required to perform tests and self-qualify those product models that meet the CEE guidelines. In measuring water consumption and idle energy rate, the following test standards must be used:

- American Society for Testing and Materials (ASTM) Standard F1484. *Test Method for the Performance of Steam Cookers.*
- Cooking Energy Efficiency and Water Consumption are based on heavy load (potato) cooking test.