



ENERGY STAR® Program Requirements for Commercial Steam Cookers

Partner Commitments DRAFT 2

Commitment

The following are the terms of the ENERGY STAR Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified commercial steam cookers. The ENERGY STAR Partner must adhere to the following program requirements:

- comply with current ENERGY STAR Eligibility Criteria, defining the performance criteria that must be met for use of the ENERGY STAR certification mark on commercial steam cookers and specifying the testing criteria for commercial steam cookers. EPA may, at its discretion, conduct tests on products that are referred to as ENERGY STAR qualified. These products may be obtained on the open market, or voluntarily supplied by Partner at EPA's request;
- comply with current ENERGY STAR Identity Guidelines, describing how the ENERGY STAR logos and name may be used. Partner is responsible for adhering to these guidelines and for ensuring that its authorized representatives, such as advertising agencies, dealers, and distributors, are also in compliance;
- qualify at least one ENERGY STAR qualified commercial steam cooker model within one year of activating the commercial steam cookers portion of the agreement. When Partner qualifies the product, it must meet the specification (e.g., Tier 1 or 2, if applicable) in effect at that time;
- provide clear and consistent labeling of ENERGY STAR qualified commercial steam cookers. The ENERGY STAR label must be clearly displayed on the front/inside of the product, on the product packaging, in product literature (i.e., user manuals, spec sheets, etc.), and on the manufacturer's Internet site where information about ENERGY STAR qualified models is displayed;

Note: The ENERGY STAR label is well known by consumers and purchasers as the symbol for energy efficiency. The ENERGY STAR logo should be placed in an area of high visibility, preferably on front of the product, so that the purchaser and end user can see that by purchasing and using an ENERGY STAR qualified commercial steam cooker, they are helping to reduce air pollution and greenhouse gases through energy efficiency. During the ENERGY STAR Commercial Steamer Industry Meeting on May 20, 2003, EPA received a positive response from individual manufacturers regarding the proposed placement of the ENERGY STAR label directly on the front/inside of the equipment.

- provide to EPA, on an annual basis, an updated list of ENERGY STAR qualifying commercial steam cooker models. Once the Partner submits its first list of ENERGY STAR qualified commercial steam cooker models, the Partner will be listed as an ENERGY STAR Partner. Partner must provide annual updates in order to remain on the list of participating product manufacturers;
- provide to EPA, on an annual basis, unit shipment data or other market indicators to assist in determining the market penetration of ENERGY STAR. Specifically, Partner must submit the total number of ENERGY STAR qualified steam cookers shipped (in units by model) or an equivalent measurement as agreed to in advance by EPA and Partner. Partner is also encouraged to provide ENERGY STAR qualified unit shipment data segmented by meaningful product

characteristics (e.g., capacity, size, speed, or other as relevant), total unit shipments for each model in its product line, and percent of total unit shipments that qualify as ENERGY STAR. The data for each calendar year should be submitted to EPA, preferably in electronic format, no later than the following March and may be provided directly from the Partner or through a third party. The data will be used by EPA only for program evaluation purposes and will be closely controlled. If requested under the Freedom of Information Act (FOIA), EPA will argue that the data is exempt. Any information used will be masked by EPA so as to protect the confidentiality of the Partner;

- notify EPA of a change in the designated responsible party or contacts for commercial steam cookers within 30 days.

Note: As noted above, EPA is willing to work through a third party, such as the North American Association of Food Equipment Manufacturers (NAFEM), to obtain commercial steam cooker shipment data. This data may be masked and provided in an aggregate form so as not to be able to identify specific manufacturer data. This data is being collected as a tool to gauge the penetration of ENERGY STAR qualified products in the marketplace and to determine if changes to the program would yield increased penetration of efficient products.

Some manufacturers expressed concern with sharing shipment data with EPA. To help ensure the confidentiality of this data, EPA will enlist the assistance of an outside source (i.e., contractor) to collect and house the data. Such entities outside of government jurisdiction are not directly accessible through the FOIA process.

Performance for Special Distinction

In order to receive additional recognition and/or support from EPA for its efforts within the Partnership, the ENERGY STAR Partner may consider the following voluntary measures and should keep EPA informed on the progress of these efforts:

- consider energy efficiency improvements in company facilities and pursue the ENERGY STAR label for buildings;
- purchase ENERGY STAR qualified products. Revise the company purchasing or procurement specifications to include ENERGY STAR. Provide procurement officials' contact information to EPA for periodic updates and coordination. Circulate general ENERGY STAR qualified product information to employees for use when purchasing products for their homes;
- ensure the power management feature is enabled on all ENERGY STAR qualified monitors in use in company facilities, particularly upon installation and after service is performed;
- provide general information about the ENERGY STAR program to employees whose jobs are relevant to the development, marketing, sales, and service of current ENERGY STAR qualified product models;
- feature the ENERGY STAR label(s) on Partner Web site and in other promotional materials. If information concerning ENERGY STAR is provided on the Partner Web site as specified by the ENERGY STAR Web Linking Policy (this document can be found in the Partner Resources section on the ENERGY STAR Web site at www.energystar.gov), EPA may provide links where appropriate to the Partner Web site;
- provide a simple plan to EPA outlining specific measures Partner plans to undertake beyond the program requirements listed above. By doing so, EPA may be able to coordinate, communicate, and/or promote Partner's activities, provide an EPA representative, or include news about the event in the ENERGY STAR newsletter, on the ENERGY STAR Web pages, etc. The plan may be as simple as providing a list of planned activities or planned milestones that Partner would like

EPA to be aware of. For example, activities may include: (1) increase the availability of ENERGY STAR qualified products by converting the entire product line within two years to meet ENERGY STAR guidelines; (2) demonstrate the economic and environmental benefits of energy efficiency through special in-store displays twice a year; (3) provide information to users (via the Web site and user's manual) about energy-saving features and operating characteristics of ENERGY STAR qualified products, and (4) build awareness of the ENERGY STAR Partnership and brand identity by collaborating with EPA on one print advertorial and one live press event;

- provide quarterly, written updates to EPA as to the efforts undertaken by Partner to increase availability of ENERGY STAR qualified products, and to promote awareness of ENERGY STAR and its message.



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Eligibility Criteria DRAFT 2

Below is the **DRAFT 2** product specification (Version 1.0) for ENERGY STAR qualified commercial steam cookers. A product must meet all of the identified criteria if it is to be labeled as ENERGY STAR by its manufacturer.

- 1) **Definitions:** Below is a brief description of a commercial steam cooker and other terms as relevant to ENERGY STAR.
 - 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.

Note: It is EPA’s understanding that although pressureless and pressure steamers are used in different applications, they are tested according to the same procedure and have similar cooking energy efficiencies. During the ENERGY STAR Commercial Steamer Industry Meeting, a number of manufacturers voiced their support of including pressure cookers in the specification. As a result, this Draft 2 specification now covers all commercial steam cookers (pressure and pressureless technologies). Definitions specifically defining boiler-based, steam generated, and connectionless steamers have been deleted and a general definition for Steam Cooker, based on the current ASTM test procedure, has been added. EPA feels that the new steam cooker definition now adequately covers all commercial steam cooker technologies, thus eliminating the need for establishing and defining discrete sub-categories.

- 2) **Qualifying Products:** Any commercial steam cooker that meets the definition in Section 1A is eligible for the ENERGY STAR. For purposes of this Version 1.0 specification, only 3-, 4-, 5-, and 6-pan capacity units may qualify for ENERGY STAR.

Note: It is EPA’s understanding that there are units available in the marketplace that exceed the maximum 6-pan capacity unit presented in Tables 1 and 2. However, it is also EPA’s understanding that the unit sizes included in this Draft 2 specification represent a large majority of the steam cooker market and as units get larger, it becomes more difficult to compare idle rates based on a 3-pan capacity reference. EPA will not delay the development of this specification to undertake the additional research required to include larger unit sizes. However, based on manufacturer interest and available testing data, EPA may consider units larger than 6-pan capacities in future revisions to this specification.

- 3) **Energy-Efficiency Specifications for Qualifying Products:** Only those products listed in Section 2 that meet the criteria presented in Table 1 or 2, below, may qualify as ENERGY STAR:

Table 1: Energy Efficiency Requirements for Electric Steam Cookers		
Pan Capacity	Cooking Energy Efficiency*	Idle Rate (kW)
3-pan	50%	400
4-pan	50%	530
5-pan	50%	670
6-pan	50%	800

Table 2: Energy Efficiency Requirements for Gas Steam Cookers		
Pan Capacity	Cooking Energy Efficiency*	Idle Rate (Btu/h)
3-pan	38%	6,250
4-pan	38%	8,350
5-pan	38%	10,400
6-pan	38%	12,500

*Cooking Energy Efficiency is based on heavy load (potato) cooking capacity.

Note: The primary objective of ENERGY STAR is to recognize the most energy-efficient products in the market through the use of the ENERGY STAR label. In developing a specification, EPA considers the following criteria:

- Significant energy savings can be realized on a national basis
- Product performance can be maintained or enhanced with increased efficiency
- Purchasers will recover their investment in increased energy efficiency within a reasonable period of time
- Energy efficiency can be achieved with several technology options; at least one of which is non-proprietary
- Product energy consumption and performance can be measured and verified with testing
- Labeling would effectively differentiate products and be visible for purchasers

It is not EPA's intention to design a specification that will allow every model to qualify as ENERGY STAR. Based on preliminary data provided by the Food Service Technology Center (FSTC), It is estimated that the specification level for electric steam cookers captures approximately 25% of the installed base. Conversely, there are limited data points available for gas steam cookers, thereby making it difficult to determine the feasibility of the proposed performance requirements. However, based on manufacturer feedback provided during the ENERGY STAR Commercial Steamer Industry Meeting, the performance levels provided in the Draft 1 specification are appropriate for gas steam cookers.

Manufacturers expressed some concern with using the normalization equation presented in the Draft 1 specification to compare units based on a 3-pan idle rate. It was suggested to EPA that a simple table be developed that outlines the specific idle rate requirements for 3-, 4-, 5-, and 6-pan models to avoid any confusion. EPA proposes specific idle rates for 3-, 4-, 5-, and 6-pan units in Tables 1 and 2, above. Manufacturers are encouraged to provide feedback on whether or not these levels are appropriate for each unit size listed.

- 4) **Test Criteria:** Manufacturers are required to perform tests and self-certify those product models that meet the ENERGY STAR guidelines. The test results must be reported to EPA using the Commercial Steam Cookers Qualifying Product Information (QPI) Form.

In performing these tests, partner agrees to measure a model's energy-efficiency using the ASTM Standard F1484-99, *Test Method for the Performance of Steam Cookers*.

- 5) Effective Date: The date that manufacturers may begin to qualify products as ENERGY STAR will be defined as the *effective date* of the agreement. The ENERGY STAR Specification for Commercial Steam Cookers is effective **August 1, 2003**.

Note: During the ENERGY STAR Commercial Steamer Industry Meeting, manufacturers agreed that the NAFEM Show in September, 2003 would be an appropriate venue to announce an ENERGY STAR Specification for Commercial Steam Cookers. To prepare for this event, EPA is proposing an effective date of August 1, 2003 to allow manufacturers time to test, report, and label ENERGY STAR qualifying products. Manufacturers are encouraged to provide feedback as to whether or not this is enough time to qualify products and prepare for a NAFEM Show launch.

- 6) Future Specification Revisions: ENERGY STAR reserves the right to change the specification should technological and/or market changes affect its usefulness to consumers, industry, or the environment. In keeping with current policy, revisions to the specification are arrived at through industry discussions. **Please note that ENERGY STAR qualification is not automatically granted for the life of the product model.** To carry the ENERGY STAR label, a product model must meet the ENERGY STAR specification in effect on the model's date of manufacture.