



ENERGY STAR[®] Requirements for Residential Ventilating Fans

Partner Commitments

Commitment

Following are the terms of the ENERGY STAR[®] Partnership Agreement as it pertains to the manufacturing of ENERGY STAR qualified residential ventilating fans. 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 residential ventilating fans and specifying the testing criteria for residential ventilating fans. 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 Logo Use Guidelines, describing how the ENERGY STAR labels 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 labeled residential ventilating fan model within one year of activating the residential ventilating fans portion of the agreement. When Partner qualifies the product, it must meet the specification (e.g., Tier 1 or 2) in effect at that time.
- Provide clear and consistent labeling of ENERGY STAR qualified residential ventilating fans. The ENERGY STAR label must be clearly displayed 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. EPA also recommends that Partner display the label on the qualifying product.
- Provide to EPA, on an annual basis, an updated list of ENERGY STAR qualifying residential ventilating fan models. Once the Partner submits its first list of ENERGY STAR labeled residential ventilating fan 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. Charter Partners — companies that join the program prior to its launch — will be added to the Partner List immediately, will be designated as Charter Partners in the List, and, like all other Partners, will have one year to submit a list of qualifying products.
- 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 residential ventilating fans 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 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 residential ventilating fans within 30 days.

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 labeled 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 labeled 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 ENERGY STAR to employees whose jobs are relevant to the development, marketing, sales, and service of current ENERGY STAR labeled 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 (available 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 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) increasing the availability of ENERGY STAR labeled products by converting the entire product line within two years to meet ENERGY STAR guidelines; (2) demonstrating the economic and environmental benefits of energy efficiency through special in-store displays twice a year; (3) providing 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) building 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.



ENERGY STAR® Requirements for Residential Ventilating Fans

Eligibility Criteria

Below is the *final* specification for ENERGY STAR® qualified residential ventilating fans. A product must meet all of the identified criteria to qualify for the ENERGY STAR label.

1) Definitions:

- A. Residential Ventilating Fan: A fan mounted in a bathroom or utility room ceiling or wall or a kitchen range hood whose purpose is to move objectionable air from inside the home to the outdoors. Household fans used for cooling (e.g., whole-house fans), air circulation, radon gas ventilation, and heat/energy recovery ventilation are excluded. Multiport fans and powered attic ventilators (e.g., gable fans) are excluded. This specification does not address passive ventilation of any kind.
- B. Power Consumption: The operation of the fan motor consumes electrical power measured in Watts (W). Power used for lights, sensors, heaters, timers, or night lights is not included in the determination of power consumption. Wattage shall be measured using Home Ventilation Institute (HVI) Standard 916.

Note: HVI is the governing body for the residential ventilating fan industry. The Institute is a division of the Air Movement and Control Association (AMCA). HVI developed the standards referred to in this specification.

- ### 2) Qualifying Products: For the purposes of this specification, residential ventilating fans include the following: range hoods, and bathroom and utility room fans. Please see Table 1 for size categories and energy-efficiency specifications. Ventilating fans with lights, including those with night lights, must meet the requirements outlined in Sections 2.A.1 and 2.A.2. Ventilating fans with sensors, heaters, and timers may qualify as ENERGY STAR.

A. Lighting:

1. Starting June 1, 2001, the following products may qualify as ENERGY STAR:
 - a. Ventilating fans with no light source
 - b. Ventilating fans with a light source
 1. Those with incandescent light sources may qualify under the following conditions: The manufacturer must recommend the use of an ENERGY STAR qualified light or light fixture that uses no more than 20 watts per lamp. This recommendation must be provided in the product literature, on the product box, and on the product Web site. EPA also recommends that Partner display the label on the qualifying product. Products that come with an ENERGY STAR qualified light or light fixture in the box do not have to provide this information. (For a list of ENERGY STAR qualified lights and light fixtures, visit www.energystar.gov.)
 2. EPA recommends that ventilating fan manufacturers encourage their lighting fixture suppliers to label their qualifying products. EPA also recommends that

in products with night lights, manufacturers use light-emitting diodes (LEDs), an electroluminescent source, or another high-efficiency light source.

- c. Starting July 1, 2002, the following products may qualify as ENERGY STAR:
 - 1. Ventilating fans with no light source
 - 2. Ventilating fans with a light source that is an ENERGY STAR qualified light fixture. Moreover, a night light included with a ventilation fan must consume no more than 4 watts.

B. Warranty:

- 1. Starting June 1, 2001, the warranty period for residential ventilating fans shall be a minimum of two years to qualify as ENERGY STAR.
- 2. Starting July 1, 2002, all ventilating fans must carry a minimum three-year warranty to qualify for the ENERGY STAR label.

- 3) Energy-efficiency Specifications for Qualifying Products: Only those products described in Sections 1 (“Definitions”) and 2 (“Qualifying Products”) that meet the specifications outlined in Table 1 below may qualify for the ENERGY STAR label.

Table 1 Final Criteria for ENERGY STAR Qualified Residential Ventilating Fans		
Duty and Airflow (cfm)	Maximum Allowable Sound Level (sones)	Minimum Efficacy Level (cfm/W)
Range Hoods (up to 500 cfm)	4.0	2.8
Bathroom and Utility Room Fans (1 to 75 cfm)	2.0	1.4
Bathroom and Utility Room Fans (76 cfm and over)	1.5	2.8
<i>Note: A product must meet both sone rating and efficacy criteria to qualify for the ENERGY STAR label.</i>		

- 4) Product Testing: Manufacturers are required to perform tests to self-certify those models that meet ENERGY STAR criteria. The test results must be reported to EPA using the *Residential Ventilating Fan Product Submittal Form*.
 - A. Airflow Rating (cfm): The airflow of a residential ventilating fan shall be measured in cubic feet per minute (cfm). The cfm values shall be measured by the method described in HVI Standard 916. HVI’s product directory lists values by manufacturer for this measurement.
 - B. Efficacy (cfm/W): The efficacy of the residential ventilating fan shall be expressed in cubic feet per minute per watt (cfm/W). Manufacturers shall calculate efficacy by using the airflow and fan motor electrical power values determined by HVI Standard 916 and listed in the HVI product directory. If HVI chooses not to list the wattage values in its product directory, manufacturers must submit the wattage reading to EPA for an efficacy calculation as part of the certification process. Fan motor electrical usage will be the only energy consumption considered. Energy used for other fan auxiliaries such as lights or heaters is not included in the determination of energy consumption.

- C. Sound Rating (sone): The sound output of a residential ventilating fan is measured in sones. The sound ratings shall be measured by the method described in HVI Standard 915. HVI's product directory lists sone values.
- 5) Effective Date: June 1, 2001 is the effective date of this Partnership Agreement. Manufacturers may begin to use the ENERGY STAR label on their qualifying products as of this date.
- 6) Future Specification Revisions: ENERGY STAR reserves the right to revise 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 discussions with industry.