

# ENERGY STAR Ventilating Fans Product List

## List Posted on May 16, 2012

Below are currently qualified ENERGY STAR models available for sale in the U.S. and Canada.

\* Where a range of as-tested airflow, efficacy, or sound level values is reported, this indicates that in the case of a range hood, multiple configurations are available, and in the case of a bathroom or utility room fan, or an in-line ventilating fan, the fan has more than one speed.

\*\* F = Fluorescent; L = LED; HID = High Intensity Discharge

\*\*\* It is standard industry practice to round down airflow to the nearest 10 cfm when publishing this metric in product directories as the Airflow Certified Rating. For this reason, Airflow Certified Rating and As-Tested Airflow may occasionally differ on this list. In the case of a range hood, Airflow Certified Rating represents performance at working speed, while in the case of a bathroom or utility room fan, or an in-line ventilating fan, it represents maximum speed.

Unit Type	ENERGY STAR Partner	Brand	Model Name	Model Number	Number of Speeds	As-Tested Airflow (CFM)*	Fan Efficacy (CFM/W)*	Sound Level (sones)*	Warranty (Years)	Airflow Certified Rating (CFM)***	Lighting Technology Used**	Total Input Power (Watts)	Luminaire Efficacy	Power Factor	Correlated Color Temperature (Kelvin)	Color Rendering Index (CRI)	Rated Life of Light Source (Hours)	Date Qualified	Special Features (Dimming, Motion Sensing etc)
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A110	1	121	3.8	0.8	3.0	120	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A125	1	136	4.3	0.7	3.0	130	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A190	1	197	3.8	2.1	3.0	190	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A200	1	238	4.1	1.4	3.0	230	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A250	1	250	3.4	1.5	3.0	250	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A290	1	294	3.0	2.5	3.0	290	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A50	1	52	2.3	0.0	3.0	50	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A70	1	71	2.7	0.0	3.0	70	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-A	SP-A90	1	88	2.7	0.1	3.0	80	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-B	SP-B50	1	65	1.7	0.4	3.0	60	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-B	SP-B70	1	74	1.8	0.6	3.0	70	N/A							4/13/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-B	SP-B80	1	87	1.8	0.7	3.0	80	N/A							4/19/2012	
Bathroom/Utility Room	Greenheck Fan Corporation	Greenheck	SP-B	SP-B90	1	89	1.7	0.9	3.0	80	N/A							4/19/2012	
Bathroom/Utility Room with Lighting	Delta Electronics Inc.	Delta	VFB25	VFB25	1	83	9.1	0.5	3.0	80	L	15.1	45.0	0.9	4,100	83	25,000	11/10/2011	
Bathroom/Utility Room with Lighting	Delta Electronics Inc.	Hampton Bay	VFB080D4LED1	VFB080D4LED1	1	60 - 83	5.3 - 9.1	0.5 - 1.0	3.0	73, 73.0	L	15.1	45.0	0.9	4,100	83	25,000	9/30/2011	
Bathroom/Utility Room with Lighting	Delta Electronics Inc.	Hampton Bay	VFB25ACLED	VFB25ACLED	1	60 - 83	5.3 - 9.1	0.5 - 1.0	3.0	73, 73.0	L	15.1	45.0	0.9	4,100	83	25,000	9/30/2011	
Bathroom/Utility Room with Lighting	Delta Electronics Inc.	Hampton Bay	VFB25ACLED	VFB25ACLED	1	83	9.1	0.5	3.0	80	L	15.1	45.0	0.9	4,100	83	25,000	11/10/2011	

## Definitions for Ventilating Fans Product Listing Column Headers

**Unit Type:** The type of ventilating fan.

**Brand Name, Model Name, and Model Number:** This is how a particular ventilating fan is identified. Model numbers often contain wildcard characters, such as \*, #, and X, that are placeholders for non-energy attributes, such as color.

**As-Tested Airflow:** Where a range of as-tested airflow, efficacy, or sound level values is reported, this indicates that in the case of a range hood, multiple configurations are available, and in the case of a bathroom or utility room fan, or an in-line ventilating fan, the fan has more than one speed.

**Fan Efficacy:** Efficacy is calculated by using airflow and fan motor electrical power values as tested per the requirements of this specification. Fan motor electrical usage is the only energy consumption considered for the fan efficacy calculation. Energy used for other fan auxiliaries (e.g., lights, sensors, heaters, timers, or night lights) is not included in the determination of fan efficacy.

**Sound Level:** Residential bath and utility ventilating fans and range hoods must meet maximum allowable sound levels between 2-3 sones. There are no sound requirements for single or multi-port in-line fans.

**Warranty:** A minimum one-year warranty is required for all products to qualify for the ENERGY STAR.

**Airflow Certified Rating:** It is standard industry practice to round down airflow to the nearest 10 cfm when publishing this metric in product directories as the Airflow Certified Rating. For this reason, Airflow Certified Rating and As-Tested Airflow may occasionally differ on this list. In the case of a range hood, Airflow Certified Rating represents performance at working speed, while in the case of a bathroom or utility room fan, or an in-line ventilating fan, it represents maximum speed.

**Luminaire Efficacy:** The ratio of luminous flux (lumens) emitted by a luminaire to that emitted by the lamp or lamps used therein.

**Power Factor:** The ratio of real power that flows to the lamp versus the amount of power actually consumed. A lamp with a lower Power Factor will draw more current than a lamp with a higher power factor for the same amount of useful power transferred.

**Correlated Color Temperature:** A description of the "color" of a light source measured by the Kelvin (K) scale. CFLs are available in a range of color temperatures. Lower Kelvin temperatures (2700-3000K) mean the light has a warmer (red-yellow) color, while higher Kelvin temperatures (4100-6500K) mean the light has a cooler (bluer) color.

**Color Rendering Index:** Measure of the degree of color shift objects undergo when illuminated by the light source as compared with the color of those same objects when illuminated by a reference source of comparable color temperature.

**Rated Life of Light Source:** The life value assigned to a particular type lamp. This is commonly a statistically determined estimate of median operational life.

## Key Efficiency Criteria

Qualified models meet all ENERGY STAR requirements as listed in the Version 3.2 ENERGY STAR Program Requirements for Ventilating Fans that are effective as of April 1, 2012.

Criteria for ENERGY STAR Qualified Residential Ventilating Fans - Minimum Efficacy Levels	
Airflow	Minimum Efficacy Level (cfm/W)*
Range Hoods — up to 500 cfm (max)	2.8
Bathroom and Utility Room Fans — 10 to 89 cfm	1.4
Bathroom and Utility Room Fans — 90 to 500 cfm (max)	2.8
In-Line (single-port & multi-port) Fans	2.8
Criteria for ENERGY STAR Qualified Residential Ventilating Fans — Maximum Sound Levels	
Airflow (cfm)	Maximum Allowable Sound Level (Sones)*
Range Hoods — up to 500 cfm (max)	2
Bathroom and Utility Room Fans — 10 to 139 cfm	2
Bathroom and Utility Room Fans — 140 to 500 cfm (max)	3
Installed Fan Performance	
Airflow (cfm)	Rated Airflow (0.25 in. w.g.)
Bathroom and Utility Room Fans — 10 to 89 cfm	0.6
Bathroom and Utility Room Fans — 90 to 500 cfm	0.7
<b>Notes:</b>	
* Based on static pressure reference measurement (consult the full program requirements).	

**Criteria for ENERGY STAR Qualified Residential Ventilating Fans with Lighting**

Performance Characteristic	Specification Luminaires V1.1
System Efficacy	N/A
Luminaire Efficacy	Minimum of 29 lm/W
Power Factor	Residential: $\geq 0.5$ Commercial: $\geq 0.9$  Solid State Residential with input power greater than 5 watts: $\geq 0.7$
Correlated Color Temperature	Lamps shipped with luminaires shall have one of the following nominal correlated color temperatures (CCT): 2700K, 3000K, 3500K, 4000/4100K, 5000K
Color Rendering Index	$Ra \geq 80$
Rated Life of Light Source	Fluorescent and HID: $\geq 10,000$ hours Halogen Incandescent: $\geq 2,500$ hours Solid State: $\geq 25,000$