



Recognition Criteria Ceiling Fans

Scope

Included products: Residential ceiling fans, standard ceiling fans, low-mount HSSD, and hugger ceiling fans, as defined below, are eligible for ENERGY STAR® Most Efficient recognition in 2024.

Residential Ceiling Fan: A non-portable device designed for home use that is suspended from the ceiling for circulating air via the rotation of fan blades.

Standard Ceiling Fan: A low-speed small-diameter ceiling fan that is not a very-small-diameter ceiling fan, highly decorative ceiling fan or belt-driven ceiling fan; for which the lowest point on fan blades is greater than 10 inches from the ceiling.

Hugger Ceiling Fan: A low-speed small-diameter ceiling fan that is not a very-small-diameter ceiling fan, highly decorative ceiling fan, or belt-driven ceiling fan; for which the lowest point on the fan blades is less than or equal to 10 inches from the ceiling.

Low-Mount High-Speed Small-Diameter Ceiling Fan: A ceiling fan that is not very-small-diameter, highly decorative, or belt-driven, is less than or equal to seven feet in blade span and is considered safe for mounting in a residential setting (i.e. between 7 and 10 feet from the ground) per UL 507¹. The blade thickness must be greater than or equal to 1/8 inch at the edge and a maximum tip speed within the applicable limits in each direction as specified in the table below:

Airflow Direction	Blade Edge Thickness (t)		Tip Speed [feet/min]	
	[mm]	[inch]	>	≤
Downward blowing	$4.8 > t \geq 3.2$	$3/16 > t \geq 1/8$	2,400	3,200
Downward blowing	$t \geq 4.8$	$t \geq 3/16$	3,200	4,000
Upward blowing	$4.8 > t \geq 3.2$	$3/16 > t \geq 1/8$	-	2,400
Upward blowing	$t \geq 4.8$	$t \geq 3/16$	-	3,200

Recognition Criteria

1) Product must be ENERGY STAR certified consistent with applicable ENERGY STAR Partner Commitments and the requirements set forth in the current ENERGY STAR Program Requirements Product Specification for Residential Ceiling Fans, Version 4. Product performance must be certified by a certification body recognized by the U.S. Environmental Protection Agency (EPA).

¹ UL Standard for Safety for Electric Fans, UL 507

2) Ceiling fans must meet the following applicable efficiency criteria per 10 CFR 430 Subpart B, Appendix U (cfm/W):

Ceiling Fan Type	Ceiling Fan Efficiency (CFM/W)*
Standard and Low-Mount HSSD Ceiling Fans	$\geq 3.25D + 107$
Hugger Fans	$\geq 1.44D + 120$

**This is a weighted average efficiency in different modes, according to 10 CFR 430 Subpart B, Appendix U; D is the ceiling blade span in inches.*

Recognition Period

The U.S. Environmental Protection Agency (EPA) will add qualifying models to the ENERGY STAR Most Efficient 2024 product list for ceiling fans from January 1, 2024, through December 31, 2024. The ENERGY STAR Most Efficient 2024 designation may be used in association with models recognized during this period for as long as the model remains on the market.