BSR/ASHRAE/IES Addendum u
to ANSI/ASHRAE/IES Standard 90.1-2025

Public Review Draft

Proposed Addendum u to Standard 90.1-2025, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

First Public Review (November 2026)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© 2026 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

© 2026 ASHRAE
This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

The addendum modifies Table 6.8.1-21 to add ISO Standard 21684 as an acceptable test method for ceiling fans installed outside the United States. ISO Standard 21684 is equivalent to AMCA Standard 230. The addendum also corrects the missing superscript in the Test Procedure heading. Additionally, the Table 6.8.1-21 is simplified to one line. AMCA 208 is removed since AMCA 230 and ISO Standard 21684 incorporate the CFEI calculation.

Summary of Changes

- Add the “b” superscript that is missing from Table 6.8.1-21, "Test Procedure" table heading.
- Simplify the structure of the table (remove one row from the IP table and one row from the SI table by incorporating alternatives to U.S. and non-U.S. applications within the Test Procedure column removing language from the Equipment Type column. This change also backstops the table should coverage of ceiling fans by the U.S. Code of Federal Regulations be removed.
- Add the alternative ISO Standard 21684 as an equivalent to AMCA 230-23.

Cost justification: This addendum will not change the stringency of the standard, so no cost justification is required.

[Note to Reviewers: This public review draft makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous draft are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.]

Addendum u to 90.1-2025

Modify Table 6.8.1-21 as follows (I-P):

Table 6.8.1-21 Ceiling Fan Efficiency Requirements[a]

Equipment Type	Size Category	Minimum Efficiency	Subcategory	Test Procedure[b]
Large-diameter ceiling fan ~~for applications in the U.S.~~	Blade span ≥ 84.5 in	CFEI ≥ 1.00 at high (maximum) speed; and CFEI ≥ 1.31 at 40% of high speed or the nearest speed that is not less than 40% of high speed	All U.S. applications	10 CFR Part 430 Appendix U
			Outside U.S. applications	10 CFR Part 430 Appendix U, AMCA Standard 230, or ISO Standard 21684
~~*Large-diameter ceiling fan* for applications outside the U.S.~~	~~Blade span ≥ 84.5 in~~	~~CFEI ≥ 1.00 at high (maximum) speed; and CFEI ≥ 1.31 at 40% of high speed or the nearest speed that is not less than 40% of high speed~~		~~10 CFR 430 Appendix U or AMCA Standard 230 and AMCA Standard 208~~

a. The minimum efficiency requirements at both high speed and 40% of maximum speed ~~must~~ shall be met or exceeded to comply with this standard.
b. Section 13 contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.

Modify Table 6.8.1-21 as follows (SI):

Table 6.8.1-21 Ceiling Fan Efficiency Requirements[a]

Equipment Type	Size Category	Minimum Efficiency	Subcategory	Test Procedure[b]
Large-diameter ceiling fan ~~for applications in the U.S.~~	Blade span ≥ 2.15 m	CFEI ≥ 1.00 at high (maximum) speed; and CFEI ≥ 1.31 at 40% of high speed or the nearest speed that is not less than 40% of high speed	All U.S. applications	10 CFR Part 430 Appendix U
			Outside U.S. applications	10 CFR Part 430 Appendix U, AMCA Standard 230, or ISO Standard 21684
~~*Large-diameter ceiling fan* for applications outside the U.S.~~	~~Blade span ≥ 2.15 m~~	~~CFEI ≥ 1.00 at high (maximum) speed; and CFEI ≥ 1.31 at 40% of high speed or the nearest speed that is not less than 40% of high speed~~		~~10 CFR 430 Appendix U or AMCA Standard 230 and AMCA Standard 208~~

a. The minimum efficiency requirements at both high speed and 40% of maximum speed ~~must~~ shall be met or exceeded to comply with this standard.
b. Section 13 contains a complete specification of the referenced test procedure, including the referenced year version of the test procedure.

Add to Section 13 (I-P and SI):

13. NORMATIVE REFERENCES

ISO 21684 (2025) Fans — Laboratory test methods for air circulating fans Table 6.8.1-21