

BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022

Public Review Draft

Proposed Addendum cz to

Standard 90.1-2022, Energy Standard

for Sites and Buildings Except Low-

Rise Residential Buildings

Second Public Review (July 2025) (Draft Shows Proposed Independent Substantive Changes to the Previous Public Review Draft)

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BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* Second Public Review Draft – Independent Substantive Changes

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FOREWORD

This 2nd ISC public review is in response to the U.S. Department of Energy's proposal to remove coverage of "fans and blowers" and "air circulating fans." At the time of publishing, SSPC 90.1 does not know if the respective test procedures, Appendix A to Subpart J of 10 CFR Part 431 and Appendix B to Subpart J of 10 CFR Part 431, will be rescinded in the near future. The proposed language is intended to account for the possibility.

There is no change to the cost of construction.

[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 <u>underlining</u> (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 cz to 90.1-2022

Add the following definitions to Section 3.2 (I-P and SI):

fan energy index (FEI): the ratio of the electric input power of a reference fan to the electric input power of the actual fan as calculated per 10 CFR Part 431 for U.S. applications if required, or, otherwise, calculated per AMCA 208 for applications outside the U.S.

Make the following changes to Section 6.4.7(I-P and SI):

 Table 6.4.7 Performance Rating Procedures for <u>Equipment Without Minimum Efficiency Requirements</u>

 Components

Equipment	Rating Procedure
Plate-type liquid-to-liquid heat exchangers	AHRI 400
Fin-and-tube heating and cooling coils (hydronic and DX)	AHRI 410
Exhaust air energy recovery heat exchangers	AHRI 1060
<i>Air circulating fans</i> with input power ≥200W	Subpart J to Appendix B of 10 CFR Part 431Appendix B to Subpart J of 10 CFR Part 431, if required, otherwise use AMCA 230.

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6.4.7 Performance Rating Requirements for <u>Equipment Without Minimum Efficiency Requirements</u> System Components. The *equipment* **listed in Table 6.4.7 shall be rated in accordance with the rating procedure listed.**

Make the following changes to Section 6.5.3.1.3 (I-P and SI):

6.5.3.1.3 Fan Efficiency. Each fan and *fan array* shall have a *fan energy index (FEI)* of 1.00 or higher at its highest design airflow rate. Each fan and *fan array*-used for a *variable-air-volume system* that meets the requirements of Section 6.5.3.2.1 shall have an *FEI* of 0.95 or higher at its highest design airflow rate.

6.5.3.1.3.1 The FEI for individual fans shall be determined in accordance with 10 CFR Part_431, if required, <u>or, otherwise, use AMCA 208, outside of the U.S.</u> The fan *FEI* shall be indicated on the construction documents to allow for compliance verification by the *AHJ*.