

Public Review Draft

Proposed Addendum ar to Standard 189.1-2020

Standard for the Design of High- Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (January, 2023)
(Draft Shows Proposed Changes to Current Standard)

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



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Foreword

This updates a list of tables from ASHRAE/IES 90.1-2022 that are required for compliance with this section and adds two new Tables from ASHRAE/IES 90.1-2022 to the list.

[Note to Reviewers: This addendum makes proposed changes to the standard. 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 standard 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 changes.]

Addendum *ar* to 189.1-2020

Revise section 7.4.3.1 as follows:

7.4.3.1 Minimum Equipment Efficiencies for the Alternate Renewables Approach. All *building projects* complying with the Alternate Renewables Approach in Section 7.4.1.1 and Table 7.4.1.1 shall comply with the applicable equipment efficiency requirements in Normative Appendix B and the applicable ENERGY STAR requirements in Section 7.4.7.3.2. Where equipment efficiency is not defined/listed in Normative Appendix B or in Section 7.4.7.3.2 or 7.4.7.6, the equipment shall meet the minimum efficiency requirements defined/listed in ANSI/ASHRAE/IES Standard 90.1. Specifically, this applies to the following products in ANSI/ASHRAE/IES Standard 90.1:

- a. Table 6.8.1-3, “~~Water-~~ Liquid- Chilling Packages—Minimum Efficiency Requirements”
- b. Table 6.8.1-10, “Floor-Mounted Air Conditioners and Condensing Units Serving Computer Rooms—Minimum Efficiency Requirements”
- c. Table 6.8.1-11, “Commercial Refrigerators, Commercial Freezers, and Refrigeration—Minimum Efficiency Requirements”
- d. Table 6.8.1-12, “Vapor-Compression-Based Indoor Pool Dehumidifiers—Minimum Efficiency Requirements”
- e. Table 6.8.1-13, “Electrically Operated DX-DOAS Units, Single-Package and Remote Condenser,

without Energy Recovery—Minimum Efficiency Requirements”

f. Table 6.8.1-14, “Electrically Operated DX-DOAS Units, Single-Package and Remote Condenser,

with Energy Recovery—Minimum Efficiency Requirements”

g. Table 6.8.1-15 Electrically Operated Water-Source Heat Pumps—Minimum Efficiency Requirements

h. Table 6.8.1-16 Heat-Pump and Heat Recovery Water-Chilling Packages—Minimum Efficiency Requirements

~~g~~ i. Table 10.8-1, “Minimum Nominal Full-Load Efficiency for NEMA Design A, NEMA Design B, and IEC Design N Motors (Excluding Fire Pump Electric Motors) at 60 Hz”

~~(NEMA MG-1)~~

~~h~~ j. Table 10.8-2, “Minimum Nominal Full-Load Efficiency for NEMA Design C and IEC Design H Motors at 60 Hz” ~~(NEMA MG-1)~~

~~i~~ k. Table 10.8-3, “Minimum Average Full-Load Efficiency for Polyphase Small Electric Motors”

~~j~~ l. Table 10.8-4, “Minimum Average Full-Load Efficiency for Capacitor-Start Capacitor-Run and Capacitor-Start Induction-Run Small Electric Motors”

~~k~~ m. Table 10.8-5, “Minimum Nominal Full-Load Efficiency for Fire Pump Electric Motors”