ADDENDA

ANSI/ASHRAE Addendum f to
ANSI/ASHRAE Standard 90.4-2019

Energy Standard for Data Centers

Approved by ASHRAE and the American National Standards Institute on August 31, 2021.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (https://www.ashrae.org/continuous-maintenance).

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FOREWORD

Addendum f modifies Section 5.2.1 to add specific language about building envelope criteria for data centers and how it is to be accounted for in the MLC calculations.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum f to Standard 90.4-2019

Modify Section 5 as shown.

5.1 General

5.1.1 Scope. Section 5 specifies the requirements for the *building envelope*.

5.2 Compliance Paths

5.2.1 Compliance. If a *data center HVAC system* meets Section 6.2, as adopted by the jurisdiction, then that *data center*'s portion of the *building envelope* shall be considered to be in compliance with Standard 90.4. Documentation describing ~~T~~the *building envelope*'s net hourly thermal effect shall be included in a project's hourly *Mech_Energy%* whenever considered necessary by either the *building official* or the *design professional*.

Exception to 5.2.1 Compliance: When building envelope does comply with ANSI/ASHRAE/IES Standard 90.1 as adopted by the jurisdiction, Section 5 the building envelope effect shall not be required to be part of a project's MLC calculation.

POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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