

Public Review Draft

Proposed Addendum bu to Standard 189.1-2017

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

First Public Review (June 2020)
(Draft Shows Proposed Changes to Current Standard)

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Foreword

This proposal aligns Standard 189.1 with recent changes to ASHRAE Standard 90.1, in which the terms “energy recovery effectiveness” and “sensible heat recovery effectiveness” were replaced with “enthalpy recovery ratio” and “sensible energy recovery ratio”, respectively. These terms are typically used in product specifications per industry standards (ASHRAE Standard 85 and AHRI Standard 1060) for the performance certification of such devices.

This proposal also aligns Standard 189.1 with recent section number changes in ASHRAE Standard 90.1. It does not impact the stringency of the energy efficiency requirements.

[Note to Reviewers: This addendum makes proposed changes to the current 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 current 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 bu to 189.1-2017

Add the following to Section 3.2 Definitions as follows:

design conditions: see ANSI/ASHRAE/IES Standard 90.1.

enthalpy recovery ratio: see ANSI/ASHRAE/IES Standard 90.1.

sensible energy recovery ratio: see ANSI/ASHRAE/IES Standard 90.1.

Revise Section 7.4.3.7 as follows:

7.4.3.7 [JO] Exhaust Air Energy Recovery. The exhaust air energy recovery requirements defined in ANSI/ASHRAE/IES Standard 90.1, Section 6.5.6.1.2, including the requirements in Tables 6.5.6.1.2-1 and 6.5.6.1.2-2, shall be used except that the ~~energy recovery effectiveness~~ enthalpy recovery ratio shall not be less than 60%, superseding the 50% ~~effectiveness~~ enthalpy recovery ratio requirement in ANSI/ASHRAE/IES Standard 90.1, Section 6.5.6.1.2.

...

7.4.3.8.2 [JO] Kitchen/dining facilities with total kitchen hood exhaust airflow rate greater than 2000 cfm (950

L/s) shall comply with at least one of the following:

...

c. *Listed* energy recovery devices with a ~~sensible heat recovery effectiveness~~ sensible energy recovery ratio of not less than 40% shall be applied on at least 50% of the total exhaust airflow. A 40% sensible energy recovery ratio shall mean a change in the dry-bulb temperature of the outdoor air supply equal to 40% of the difference between the outdoor air and entering exhaust air dry-bulb temperatures at design conditions.

Note to reviewers:

Addendum p, published on the ASHRAE website, made the two sections above jurisdictional options [JO].

Addendum ar, which has completed public review and is awaiting approval for publication, added the definition of “listed” below, and the term is italicized in 7.4.3.7(c) above. This definition is not open for public review.

listed: Equipment, materials, products or services included in a list published by an *approved* organization and concerned with evaluation of products or services that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services and whose listing states either that the equipment, material, product or service meets identified standards or has been tested and found suitable for a specified purpose.