



# STANDARDS ACTIONS

## PUBLIC REVIEW—CALL FOR COMMENTS

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Constructive comments are invited for the following Public Review Drafts, which can be accessed on ASHRAE's website at <https://osr.ashrae.org>. To obtain a paper copy of any Public Review Draft contact ASHRAE, Inc. Attn: Standards Public Review, 1791 Tullie Circle, NE, Atlanta, GA 30329-2305, or via email at: [standards.section@ashrae.org](mailto:standards.section@ashrae.org). Paper copies are \$35.00/copy if 100 pages or less and \$45.00 if over 100 pages.

**30-day Public Review from August 30, 2019 to September 29, 2019**

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum g to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems***

This addendum adds Section 8.6, Decommissioning. This section clarifies the post-consumer handling of refrigerants.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum h to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems***

This addendum adds Section 9.1.1, Recovery Equipment.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum i to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems***

This addendum changes Section 4.3.2, Vibration to consistently refer to “endurance limits” rather than “endurance testing,” to broaden the scope referring to all tubing rather than only copper tubing, and to offer examples of small diameter tubing that is to be constructed with vibration loops.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum j to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems***

This addendum changes Section 4.5.1 by including the descriptive phrase saturated suction temperature.

- ♦ **1<sup>st</sup> Public Review of BSR/ASHRAE Addendum k to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems***

This addendum changes Section 4.3.3 to clarify the content by changing the word “bolts” to “fasteners.”

- ♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/ICC/USGBC/IES Addendum aa to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum aa to Standard 189.1-2017 underwent independent substantive changes based on comments received during the first public review period. The CO<sub>2</sub>e emissions factors were moved to a separate table, the table headings were revised, and one row ("other fuels not specified in this table") was relocated and assigned the same emissions factor as coal. Note: similar changes were made to addendum z.

- ♦ **2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/ICC/USGBC/IES Addendum z to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

Addendum z to Standard 189.1-2017 underwent independent substantive changes based on comments received during the first public review period. The table was renamed "Source Energy Conversion Factors", the table headings were revised, and one row ("other fuels not specified in this table") was relocated and assigned the same value as coal. Note: similar changes were made to addendum aa.



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<ul style="list-style-type: none"> <li> <p>♦ <b>2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/ICC/USGBC/IES Addendum p to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b>            This independent substantive change to Addendum p modifies the selection of requirements that are appropriate for local jurisdictions to consider excluding from their adopted ordinances. Previously, Section 7.4.3.6 (Fan System Power and Efficiency) and Section 7.4.3.10 (Automatic Control of HVAC and Lights in Hotel/Motel Guest Rooms) were listed as jurisdictional options; they have been restored as core requirements of 189.1.</p> </li> <li> <p>♦ <b>2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/ICC/USGBC/IES Addendum y to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b>            Addendum y to 189.1-2017 addresses situations where wall-mounted mechanical equipment defined in ASHRAE 90.1, Table 6.8.1-4, can account for a significant portion of the wall area. For example, Packaged Terminal Air Conditioners (PTACs) can cover as much as 20% of the wall area, having a significant impact on the thermal performance of the wall. This independent substantive change (ISC) to addendum y clarifies how to calculate penetration area in accordance with ASHRAE 90.1, Section 5.5.3. It also increases the threshold for triggering the proposed requirements.</p> </li> <li> <p>♦ <b>2<sup>nd</sup> Public Review ISC of BSR/ASHRAE/ICC/USGBC/IES Addendum k to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b>            Addendum k underwent independent substantive changes based on comments received during the first public review period. The changes include: new renewable energy requirements to create better alignment between Chapter 7 performance and prescriptive paths, new requirements for the treatment of off-site renewable energy sources, and new language to describe off-site renewable energy supplies based on industry standards.</p> </li> </ul>	<ul style="list-style-type: none"> <li> <p>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum ag to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b>            Addendum ag defines a new metric called the fan efficiency index (FEI) developed by AMCA International and recommended by the DOE. FEI is the ratio of the electrical input power required by the subject fan compared to a reference fan. FEI provides designers with a simpler means of making optimal fan selections without the added complexity of sizing/selection windows. A similar provision has already been approved for ASHRAE 90.1, however, addendum ag to 189.1-2017 proposes a 10% increase to the FEI requirements that will appear in 90.1-2019.</p> </li> <li> <p>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum ah to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b>            Addendum ah increases the efficacy requirements for light sources and the percentage of light sources in dwelling units that must meet the higher requirements. This addendum reflects the availability of highly efficient lighting products on the market and ASHRAE's effort to continue developing 189.1 as a high-performance standard. The new requirements were determined with consideration of published averages for both directional and omnidirectional lamps and include an exception for appliance lighting.</p> </li> </ul>



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<ul style="list-style-type: none"> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/ IES Addendum ai to ANSI/ASHRAE/ICC/USGBC/ IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b> Addendum ai to 189.1-2017 raises the efficiency requirements for gas-fired hot water equipment and adds efficiency requirements for electric equipment. The new gas efficiency requirements (0.92 Et) could be met without making major technology shifts since achieving the 0.90 Et already required in 189.1-2017 typically involved the use of condensing technology. The required COP of 2.0 for electric water heaters is based on a Washington state proposal. Exceptions are provided for water heaters installed in individual dwelling units and for buildings that use renewable energy and/or waste recovery systems to meet 25% or more of the hot water demand.</li> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/ IES Addendum al to ANSI/ASHRAE/ICC/USGBC/ IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b> Addendum al to 189.1-2017 replaces references to ‘acceptance testing’ with its defined equivalent ‘functional and performance testing (FPT).’</li> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/ IES Addendum am to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b> Addendum am modifies the current definition of <i>on-site renewable energy system</i>, which references <i>building project</i> (which in turn, references <i>site</i>.) These references have been eliminated and additional details have been provided to improve the clarity of the definition.</li> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/ IES Addendum ad to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b> Addendum ad to 189.1-2017 aligns solar heat gain coefficient (SHGC) requirements with 90.1-2016 with</li> </ul>	<p>limited exceptions as described for Climate Zones 4C and 5 through 8 with glazing oriented within 22.5 degrees of true north. This addendum also deletes the duct insulation requirements specific to 189.1 in favor of the default values from 90.1-2016, which have been found to be more energy efficient.</p> <p style="text-align: center;"><b><u>45-day public review from August 30, 2019 to October 14, 2019</u></b></p> <ul style="list-style-type: none"> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE Standard 64-2011R, <i>Methods of Laboratory Testing Remote Mechanical-Draft Evaporative Refrigerant Condensers</i></b> This revision of Standard 64 prescribes methods of laboratory testing remote mechanical-draft evaporative refrigerant condensers. Technical revisions have been incorporated as appropriate. Additional revisions have been implemented to bring this standard into compliance with ASHRAE’s mandatory language requirements. References have been updated.</li> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE/ICC/USGBC/ IES Addendum ak to ANSI/ASHRAE/ICC/USGBC/ IES Standard 189.1-2017, <i>Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings</i></b> Addendum ak adds an informative appendix that documents how the source energy conversion factors and the CO<sub>2e</sub> emission factors in Table 7.5.2 were developed. This information is intended to provide guidance on how the values may be modified for other countries to suit the mix of generator types used to make electricity.</li> <li>♦ <b>1<sup>st</sup> Public Review of BSR/ASHRAE Standard 207P, <i>Laboratory Method of Test of Fault Detection and Diagnosis for Air Economizers</i></b> The purpose of ASHRAE Standard 207P is to provide methods for laboratory testing of Fault Detection and Diagnosis (FDD) systems to determine whether they perform as specified.</li> </ul>



# STANDARDS ACTIONS

## INTERIM MEETINGS

A complete listing of project committee interim meetings is provided on ASHRAE's website at: <https://www.ashrae.org/technical-resources/standards-and-guidelines/project-committee-interim-meetings>.

- ♦ **SSPC 62.1, *Ventilation for Acceptable Indoor Air Quality***, will hold a webinar on Wednesday, September 25, 2019 from 12:00 pm to 2:00 pm (Eastern). For additional information please contact Mark Weber at [mweber@ashrae.org](mailto:mweber@ashrae.org).
- ♦ **SPC 84-2013R, *Method of Testing Air-to-Air Heat/Energy Exchangers***, will hold a conference call on Friday, September 13, 2019 from 11:00 am to 12:00 pm (Eastern). For additional information contact Matthew Friedlander, Chair of SPC 84 ([mfried@renewaire.com](mailto:mfried@renewaire.com)).
- ♦ **SPC 210P, *Method of Testing for Rating Commercial Walk-in Cooler and Freezer Equipment***, will hold a conference call on Wednesday, September 18, 2019 from 2:00 pm to 3:00 pm (Eastern). For additional information contact Lauren MacGowens, Chair of SPC 210 ([lmacgowens@ahrinet.org](mailto:lmacgowens@ahrinet.org)).

## PUBLICATION NOTICE

The addenda listed below are now available for free download on the ASHRAE website at: <http://www.ashrae.org/standards-addenda>.

- ♦ **ASHRAE Addenda *a, b, c, d* and *e* to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems***
- ♦ **ANSI/ASHRAE Addendum *p* to ANSI/ASHRAE Standard 34-2019, *Designation and Safety Classification of Refrigerants***
- ♦ **ANSI/ASHRAE Addenda *l, ad, ae, af, al, an* and *as* to ANSI/ASHRAE Standard 62.1-2016, *Ventilation for Acceptable Indoor Air Quality***

## PUBLICATION NOTICE

- ♦ **ANSI/ASHRAE/ICC/USGBC/IES Addenda *a, b* and *x* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

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- ⇒ [SSPC 41 — Standard Methods for Measurement](#)
- ⇒ [SSPC 62.1 — Ventilation for Acceptable Indoor Air Quality](#)
- ⇒ [SSPC 62.2 — Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings](#)
- ⇒ [SSPC 90.1 — Energy Standard for Buildings Except Low-Rise Residential Buildings](#)
- ⇒ [SSPC 90.2 — Energy Efficient Design of Low-Rise Residential Buildings](#)
- ⇒ [SPC 90.4 — Energy Standard for Data Centers and Telecommunications Buildings](#)
- ⇒ [SSPC 161 — Air Quality within Commercial Aircraft](#)
- ⇒ [SSPC 188 — Legionellosis: Risk Management for Building Water Systems](#)
- ⇒ [SSPC 189.1 — Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings](#)
- ⇒ [Code Interaction Subcommittee \(CIS\) Listserve](#)