



# 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://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>. All activity for reviewing and commenting on public review drafts can be accomplished completely online. To obtain a paper copy of any Public Review Draft contact ASHRAE, Inc. Attn: Standards Public Review, 180 Technology Parkway, Peachtree Corners, GA 30092, or via email at: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

**Note: Paper copies are available for \$35.00/copy if 100 pages or less and \$45.00 if over 100 pages.**

**30-day Public Review from  
May 24, 2024 to June 23, 2024**

♦ **1<sup>st</sup> Publication Public Review of BSR/ASHRAE Addendum *r* to ANSI/ASHRAE Standard 15-2022, *Safety Standard for Refrigeration Systems***

ASHRAE RP-1807 investigated best practices for the handling, transportation, and storage of flammable refrigerants and the installation, servicing, and decommissioning of HVAC&R equipment containing flammable refrigerants. The investigators compared requirements in safety standards outside the US (e.g., Japan and Europe) with those in the US. Based on their research, the authors identified gaps in safety standards in the US and made recommendations to address these gaps. ASHRAE MTG.lowGWP tasked SSPC15 with reviewing the final report of RP-1807 and revising ASHRAE Standard 15 where appropriate. This addendum proposes changes to the standard based on RP-1807.

♦ **1<sup>st</sup> Publication Public Review of BSR/ASHRAE Addendum *n* to ANSI/ASHRAE Standard 15-2022, *Safety Standard for Refrigeration Systems***

This proposed addendum *n* to ASHRAE Standard 15-2022 modifies portions of the document to improve readability of section 9.3.1.1 to clarify the section may be satisfied by simply complying with a, or b, or c. Additionally, the addendum correctly incorporates language that had previously been an exception.

♦ **1<sup>st</sup> Publication Public Review of BSR/ASHRAE Addendum *j* to ANSI/ASHRAE Standard 15-2022, *Safety Standard for Refrigeration Systems***

This proposed addendum removes the exception of Section 7.5.3 which allowed the use of an A3 or B3 refrigerant outdoors with no restriction other than the total charge limitation of Section 7.5.1.1. The proposal also removes the exception of Section 7.8 which allowed without restriction the outdoor use of an A2 refrigerant in high-probability systems for other than human-comfort. These exceptions were added under Addendum *l* for the 2019 edition of ASHRAE 15 and created an unintended loophole that permitted charge limits of up to 1100 lb (500 kg) if the refrigerating system is installed outdoors. Removal of the exception to Section 7.5.3 does not prohibit the installation of equipment outdoors using A3 or B3 refrigerants. Group A3 and B3 refrigerants may still be used outdoors if they are listed or not listed but approved by the AHJ. At this time, ASHRAE 15 does not address how all equipment must be installed outdoors when utilizing an A2, A3 or B3 refrigerant and there are safety concerns about how refrigerant may leak into spaces surrounding the refrigeration system. Additionally, the term “refrigeration system” replaced “systems” in Section 7.8.



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♦ **1st Publication Public Review of BSR/ASHRAE Addendum *d* to ANSI/ASHRAE Standard 15-2022, *Safety Standard for Refrigeration Systems***

This proposed addendum to ANSI/ASHRAE Standard 15-2022 addresses changes of refrigerant to existing refrigeration systems, whether for changes within the same refrigerant safety group or to a different refrigerant safety group. The modifications apply to Sections 5.3, 7.7.3, 7.6.2, Informative Appendix A, and a new Informative Appendix H that provides guidelines for retrofit of certain types of refrigeration systems.

This proposed change clarifies requirements for refrigeration systems retrofitted or recommissioned with a new refrigerant designation. When the new refrigerant is classified (by ASHRAE Standard 34) in a different safety group than the original refrigerant, the equipment must meet the requirements of this standard for a new installation, with some provisions to address the listing requirements. For example, changing from safety group A1 to safety group A2L, A2, or A3 will require modifications such as refrigerant leak detection and mitigation (where applicable), as specified in UL/CSA 60335-2-89 2nd edition (2021) or UL/CSA 60335-2-40 4th edition (2022). The change of refrigerant to a new safety group will be required to be evaluated by a National Recognized Testing Laboratory (NRTL) or be approved by the Authority Having Jurisdiction (AHJ).

♦ **2nd Public Review ISC of BSR/ASHRAE/IES Addendum *u* to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings***

This independent substantive change to Addendum *u* explains the level at which minimum supply fan airflow is to be maintained for multiple-zone units.

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♦ **1st Public Review of BSR/ASHRAE/ICC/USGBC/IES Addendum *e* to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2023, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings***

The addendum expands the coverage of cool roof surfaces from 75% to 100%. This is consistent with Standard 90.1 provisions for cool roofs over conditioned space. A new exception is added for roofs shaded by adjacent structures similar to language used in Standard 90.1. However, the energy efficiency exception is deleted since this section addresses heat island mitigation, not energy efficiency. This addendum also changes the italicized “roof” as defined in Standard 90.1 to uninitialized “roof” because the common term is more applicable to heat island mitigation regardless of whether the space below the roof is conditioned or unconditioned. Stone ballasted roofs remains as a viable roof system in climate zones 4A and 4B.

**[45-day Public Review from May 24, 2024 to July 8, 2024](#)**

♦ **1st Public Review of BSR/ASHRAE/IES Addendum *ad* to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings***

This addendum provides one overarching term for those responsible for administering the standard: authority having jurisdiction. The new term includes code officials and building officials, which are no longer separately defined.

♦ **1st Public Review Draft of BSR/ASHRAE Addendum *l* to Standard 209-2018, *Energy Simulation Aided Design for Buildings except Low-Rise Residential Buildings***

This addendum adds a new Informative Appendix L that seeks to provide guidance for evaluating the impact of climate change on building energy consumption and building system design. Changes are proposed to existing Appendix A to avoid overlap between Appendix A and the proposed Appendix L.



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♦ **1st Public Review Draft of BSR/ASHRAE Addendum c to Standard 30-2019, *Method of Testing Liquid Chillers***

Addendum c to Standard 30-2019 includes the following major revisions:

1. Adds a definition for heat exchanger allowing reference to capacity measurement in cooling or heating.
2. Redefines heat reclaim and combined heating and cooling metrics to allow capacity and total efficiency calculation including all heat exchangers.
3. Adds definitions for various operating modes such as any hybrid mode that makes use of simultaneous cooling and heating, and any hybrid mode that makes use of passive operation, provided that all system components are included as part of the liquid-chilling system to be tested. Such components may include air-to-liquid, refrigerant-to-liquid, refrigerant-to-air, or liquid-to-liquid heat exchangers.

## ERRATA

A new errata sheet for the following standard is now available on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-errata>

- ♦ ANSI/ASHRAE Standard 41.2-2022, *Standard Methods for Air Velocity and Airflow Measurement*, dated May 17, 2024
- ♦ ANSI/ASHRAE Standard 34-2022 Errata, *Designation and Safety Classification of Refrigerants*, dated May 10, 2024

## 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>

- ♦ **SPC 240P, *Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction and Operation***, will hold a web meeting on June 4, 2024 from 3:00 pm to 4:30 pm (Eastern).

For additional information contact Stephanie Reiniche, Chair of SPC 240 ([sreiniche@ashrae.org](mailto:sreiniche@ashrae.org)) or Amber Thomas, Administrative Assistant Technology ([athomas@ashrae.org](mailto:athomas@ashrae.org)).

- ♦ **Standard 41.4-2015R, *Standard Methods for Proportion of Lubricant in Liquid Refrigerant Measurement***, will hold a web meeting on June 12, 2024, from 10:00 am to 11:00 am (Eastern).

For additional information contact James Douglas ([jim.douglas.imagineering@gmail.com](mailto:jim.douglas.imagineering@gmail.com)), Chair of the 41.4 Subcommittee.



## STANDARDS ACTIONS

### JOIN A LISTSERVE

Click on the following link to learn more about ASHRAE Standards Activities <https://www.ashrae.org/listserves>.

- ♦ GPC 36 — High Performance Sequences of Operation for HVAC Systems
- ♦ 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 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
- ♦ SPC 201 — Facility Smart Grid Information Model
- ♦ ASHRAE Standards Action list serve
- ♦ Code Interaction Subcommittee (CIS)