



STANDARDS ACTIONS

PUBLIC REVIEW—CALL FOR COMMENTS

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.

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
February 16, 2024 to March 17, 2024

♦ **BSR/ASHRAE Standard 243P, *Safety Standard for Transportation Refrigerating Systems***

Purpose:

This standard specifies safe design, construction, installation, and operation of refrigerating systems for use in transportation applications.

Scope:

1. This standard establishes safeguards for life, limb, health and property and prescribes safety requirements
2. The design, construction, test, installation, operation, and inspection of mechanical refrigerating systems used in transportation applications
3. Modifications, including replacement of parts or components if they are not identical in function and capacity
4. Substitutions of refrigerants having a different designation
5. This standard applies to refrigerating systems for the following applications
 - a. On road transport of goods
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 - c. Self-contained marine
 - d. Intermodal transport
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6. This standard does not apply to
 - a. Mobile air conditioning (MAC) systems within the scope of SAE J639
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 - d. Refrigerating and air conditioning systems within scope of ASHRAE Standard 15
 - e. Residential refrigerating and air conditioning systems within scope of ASHRAE Standard 15.2



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- ♦ ***GPC 47P, Design, Installation and Commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings***

Purpose:

This guideline provides guidance for the design, installation and commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings.

Scope:

1. This guideline applies to central domestic electric heat pump hot water systems in new multifamily buildings.
2. This guideline provides procedures and design factors; the requirements and installation factors; and the performance, commissioning and operational factors to be considered by the design engineer, contractor and maintenance personnel involved with these systems.

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

These proposed TPS changes are in response to a public comment submitted during PPR1 of Addendum c to Standard 15-2022. The defined term "refrigerating system" can be used generically for many different end-use applications without invoking the connotations of "air-conditioning" and "refrigeration" as being distinct and only applicable to certain temperature ranges. SSPC 15 is already wrestling with terminology issues such as the introduction of the phrase "commercial refrigeration applications" in Addendum e to Standard 15-2022. If the defined term was instead "refrigeration system", as was proposed in PPR1, then some users may incorrectly infer that certain requirements do not apply to air-conditioners, dehumidifiers, or other types of equipment that do not commonly use the word "refrigeration". SSPC15 accepted a public comment objecting to the proposed change in the defined term, and instead proposing to revise the TPS to resolve the discrepancy.



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

This proposed addendum revises Section 7.3.1 to clarify intent for determination of maximum refrigerant charge limits. This addendum is follow up to committee responses to interpretation requests IC-15-2022-1 and IC 15 2022 2

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

This proposed addendum provides consistency on the use of relative molar mass throughout ASHRAE Standard 15. It further harmonizes with ASHRAE Standard 34 on the use of relative molar mass, and better defines the connection of several other defined terms within ASHRAE Standard 15 to ASHRAE Standard 34 (i.e., LFL, OEL, RCL).

- ♦ **1st Publication Public Review of BSR/ASHRAE Addendum x to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants***

This proposed addendum adds the zeotropic refrigerant blend R-490A to Tables 4-2 and D-2.

- ♦ **1st Publication Public Review of BSR/ASHRAE Addendum y to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants***

This proposed addendum adds the zeotropic refrigerant blend R-491A to Tables 4-2 and D-2.

- ♦ **1st Publication Public Review of BSR/ASHRAE Addendum z to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants***

This proposed addendum revises Section 4, "Numbering of Refrigerants" to expand the logic of the ethane series to also include the ethene series. Normative references are also updated.



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- ♦ **1st Public Review 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 addendum modifies Section 6.5.3.2.1 to lower the minimum airflow turndown rate on VAV units from 50% to 15% so the system can operate effectively during low occupancy or ventilation-only periods without the need for a bypass duct.

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

This addendum provides an exception to the zone isolation requirement of 6.4.3.3.4 for situations in which it would not be permitted (e.g., for compliance with ASHRAE 170).

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

The addendum adjusts an existing footnote that applies to Table 9.5.2.2 (Additional Lighting Power) and adds an exception that was previously omitted in Section 9.2.2.2 (Exterior Lighting Power Allowance).

- ♦ **3rd Public Review ISC of BSR/ASHRAE/IES Addendum *j* to ANSI/ASHRAE/IES Standard 90.2-2018, *High-Performance Energy Design of Residential Buildings***

This independent substantive change to the previous public review draft accepts commenter feedback to make the off-site renewable power definitions consistent with Standard 189.1 and to correct an equation.

- ♦ **BSR/ASHRAE Standard 243P, *Safety Standard for Transportation Refrigerating Systems***

This standard specifies safe design, construction, installation, and operation of refrigerating systems for use in transportation applications.



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- ♦ **1st Public Review of BSR/ASHRAE/ASHE Addendum *h* to ANSI/ASHRAE/ASHE Standard 189.3-2021, *Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities***

Healthcare facilities are unique in that they need to maintain normal operating targets while experiencing atypical conditions, such as temperature extremes beyond the typical ASHRAE 99.6% heating condition and being required to achieve quick temperature rises in some patient occupied rooms. Heating hot water is a typical medium utilized for this management of these operational targets. The target value of 130°F (54°C) is selected to find the balance between performance of efficient heat generation equipment, such as heat recovery chillers, heat pumps, and reasonable heating coil sizes and pressure drops.

- ♦ **ASHRAE Guideline 47P, *Design, Installation and Commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings***

This guideline provides guidance for the design, installation and commissioning of Central Domestic Electric Heat Pump Hot Water Systems in New Multifamily Buildings.

45-day Public Review from
February 16, 2024 to April 1, 2024

- ♦ **BSR/ASHRAE Standard 185.4P *Method of Testing In-Room Ultraviolet Devices and Systems for Microbial Inactivation on Surfaces in a Test Room* (First Public Review Draft)**

The purpose of Standard 185.4-202x is to establish a test method for evaluating the efficacy of germicidal ultraviolet systems for microbial inactivation on multiple surface locations in a test room.

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

This addendum clarifies the difference between an *envelope floor* and a floor with the ordinary meaning and revises the italicized terms as appropriate throughout the standard.



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

This addendum proposes to remove Table 9.5.2.3, which provided an additional power allowance for lighting controls, because it was motivated by inefficiencies in fluorescent lighting that is no longer relevant since the shift to LEDs.

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

This addendum proposes to update Annex 1 containing climate data for building design from its current reference of Standard 169-2013 to the latest Standard 169-2021.

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

The addendum modifies Section 6.5.6.1.1 to provide clear requirements for exhaust air energy recovery in non-transient dwelling units and includes an additional compliance path using CSA 439.

- ♦ **Addendum *a* to ASHRAE Guideline 10-2023, *Interactions Affecting the Achievement of Acceptable Indoor Environments* (First Public Review Draft)**

This addendum adds moisture as an Aspect of the four Indoor Environmental Factors to Guideline 10-2023. Edits include the various properties, measurements, effects, and interactions of moisture with the acceptability of the indoor environment, associated definitions (with notes), and References.

- ♦ **BSR/ASHRAE/ASHE Addendum *m* to ANSI/ASHRAE/ASHE Standard 170-2021, *Ventilation of Health Care Facilities* (First Public Review Draft)**

Proposed Addendum m revises Tables 7-1, 8-1, 8-2 and 9-1 to incorporate types of room units that are allowable for each space type. This will provide clarity and consistency within this standard. Addendum h also modifies text within Sections 8.1 and 8.2 that is associated with unoccupied turndowns. This addendum comprises the following general edits: New definition for room unit. Revisions to Tables 7-1, 8-1, 8-2 and 9-1 modifying the general requirement for circulating room units to align with the definition and specify the type of room unit allowable in each space. Revisions to the requirements for air change rate provisions with respect to room units.



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ERRATA

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- ◆ ANSI/ASHRAE STANDARD 34-2010 *Designation and Safety Classification of Refrigerants*, dated February 8, 2024
- ◆ ANSI/ASHRAE STANDARD 34-2013 *Designation and Safety Classification of Refrigerants* dated February 8, 2024
- ◆ ANSI/ASHRAE STANDARD 34-2016 *Designation and Safety Classification of Refrigerants* dated February 8, 2024
- ◆ ANSI/ASHRAE STANDARD 34-2019 *Designation and Safety Classification of Refrigerants* dated February 8, 2024
- ◆ ANSI/ASHRAE STANDARD 34-2022 *Designation and Safety Classification of Refrigerants* dated February 8, 2024
- ◆ ANSI/ASHRAE/IES Standard 90.1-2019 (I-P Edition) *Energy Standard for Buildings Except Low-Rise Residential Buildings* dated February 15, 2024
- ◆ ANSI/ASHRAE/IES Standard 90.1-2019 (SI Edition) *Energy Standard for Buildings Except Low-Rise Residential Buildings* dated February 15, 2024
- ◆ ANSI/ASHRAE/IES Standard 90.1-2022 (I-P Edition) *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* dated February 15, 2024
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INTERIM MEETINGS

JOIN A LISTSERVE

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 33-2016R, *Methods of Testing Forced-Circulation Air-Cooling and Air-Heating Coils***

SPC 33 will hold a conference call on March 4, 2024 from 10:00 am to 11:00 am (Eastern).

For additional information contact Raymond Rite Chair of SPC 33 (ray.rite@trane.com)

♦ **SSPC 41.9-2021R, *Methods for Refrigerant Mass Flow Measurement using Calorimeters***, will hold a virtual meeting on Monday, March 4, 2024 from 12:00 PM until 1:00 PM (Eastern).

For additional information contact Michael Perevozchikov Chair of the 41.9 Subcommittee.

(Michael.Perevozchikov@Copeland.com),

♦ **SSPC 34, *Designation and Safety Classification of Refrigerants*** will hold virtual meeting on Friday, March 1st, 2024 from 8:00 AM to 10:00 AM (Eastern)

For additional information, please contact Kai Nguyen, Staff Liaison to SSPC 34 (knguyen@ashrae.org).

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)