

# Ashrae handbook chapter 49

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**How much is Ashrae handbook?** Subscribe to ASHRAE Handbook Online and get instant access to the latest edition of all four volumes for \$325/year (\$52/year for ASHRAE members).

**What is the full form of Ashrae handbook?** The ASHRAE Handbook is the four-volume flagship publication of the nonprofit technical organization ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).

**Is ASHRAE free?** ASHRAE Standards Addenda, Errata, and Interpretations Addenda for ASHRAE Standards, including continuous maintenance standards, are available online in PDF format. Standards that are on continuous maintenance are continuously updated through addenda and ASHRAE makes these available free online.

**What is the latest version of ASHRAE?** Newly Released ASHRAE 90.1-2022 Includes Expanded Scope For Building Sites. ATLANTA (January 25, 2023) – ASHRAE has released its latest version of its benchmark energy efficiency standard, ANSI/ASHRAE/IES Standard 90.1-2022, Energy Efficiency Standard for Sites and Buildings Except Low-Rise Residential Buildings.

**How much does ASHRAE cost?** How much does ASHRAE Handbook Online cost? The cost to nonmembers is \$315. For ASHRAE members, the price is \$230. For ASHRAE Student Members, the price is \$54.

**Where can I buy ASHRAE standards?** For pricing and ordering information for ASHRAE standards and guidelines, see the ASHRAE Online Bookstore. To order a hard copy of an ASHRAE standard or guideline, contact ASHRAE Customer Service at 1-800-527-4723 (U.S. and Canada) or 404-636-8400 (Worldwide). Fax: 404-321-5478. E-mail: [orders@ashrae.org](mailto:orders@ashrae.org).

**What does ASHRAE stand for?** The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) is the governing society responsible for developing building design as well as energy efficiency standards and guidelines for the new construction environment.

**Is ASHRAE a code or standard?** ASHRAE works with national code organizations to incorporate relevant ASHRAE standards and sections of standards into national codes.

**What is the minimum air change for ASHRAE?** The ASHRAE 62.1 ("Ventilation and Acceptable Indoor Air Quality in Residential Buildings") recommends homes receive no less than 0.35 air changes per hour of outdoor air to ensure adequate indoor air. For other spaces like offices, shops, and schools, the ASHRAE 62.1 standard doesn't give a fixed number.

**What is the limit of ASHRAE?** ASHRAE Technical FAQ US EPA sets outdoor maximum levels at 35 ppm (1 hour averaging) and 9 ppm (8 hour averaging), while the World Health Organization limits CO concentrations based on exposure time ranging from 90 ppm (15 minute exposure) to 10 ppm (8 hour exposure).

**What is the difference between BTU and ASHRAE?** The primary difference between ASHRAE and SACC BTU ratings lies in the testing conditions. ASHRAE provides a rating based on consistent, controlled laboratory conditions, while SACC offers a rating that considers the fluctuations in temperature and humidity that occur in the real world.

**What is the difference between ISO and ASHRAE?** While the ISO series focuses on thermal comfort and expands upon the variables mentioned in ISO 7730 (metabolic rate, heat, etc.), the ASHRAE series has more documents pertaining to other HVAC applications. For example: ASHRAE Standard 15– This document covers safety standards for refrigeration systems.

**What is an example of ASHRAE standards?** Examples of some ASHRAE Standards are: Standard 34 – Designation and Safety Classification of Refrigerants. Standard 55 – Thermal Environmental Conditions for Human Occupancy. Standard 62.1 – Ventilation for Acceptable Indoor Air Quality (versions: 2001 and earlier as "62", 2004 and beyond as "62.1")

**What humidity does ASHRAE require?** ASHRAE Technical FAQ requires that relative humidity levels be designed to be limited to 65% or less for mechanical systems with dehumidification capability. For other mechanical system types or where spaces are not served by mechanical systems, Standard 62.1 has no humidity limitations.

**Is outside air required in ASHRAE?** In general, the minimum outside airflow rates for different occupancy types are as follows: Assembly areas: 4-15 CFM per person. Classrooms: 3-8 CFM per person. Office spaces: 5-20 CFM per person.

**What is ASHRAE certification?** ASHRAE certification is a voluntary credential awarded to professionals who have demonstrated their expertise and knowledge in the areas of heating, ventilation, cooling, and refrigeration.

**What is the ASHRAE standard for 2024?** ANSI/ASHRAE/IES Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings is a code-ready building performance standard that provides processes and procedures for reducing energy consumption and carbon emissions through improved energy efficiency and performance of all types of ...

**Are ASHRAE standards free?** Free Resources Related to Standards and Codes  
You may preview some of ASHRAE's most popular Standards in a read-only format.

**What is the difference between ASHRAE Level 2 and 3?** The financial analysis at this level of audit is used to build the business case for implementing energy

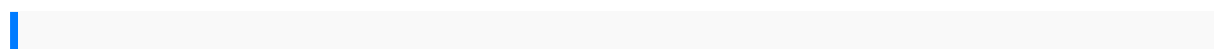
measures. ASHRAE Level 3 – The Level 3 audit builds on the Level 2 audit by doing a more in-depth analysis of energy use in the building. This can include sub-metering of major energy systems.

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**Where can I find ASHRAE weather data?** Users access Weather Data Viewer in ASHRAE Handbook Online under 2021 ASHRAE Handbook— Fundamentals on the Additional Features tab of the Homepage or from the Contents or Additional Features tabs of Chapter 14 of 2021 ASHRAE Handbook—Fundamentals.

**What is ASHRAE software?** ASHRAE: Service Life and Maintenance Cost Database. The purpose of this database is to provide current information on service life and maintenance costs of typical HVAC equipment. Engineers depend on accurate owning and operating data to make decisions involving the life cycle and functionality of buildings.



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