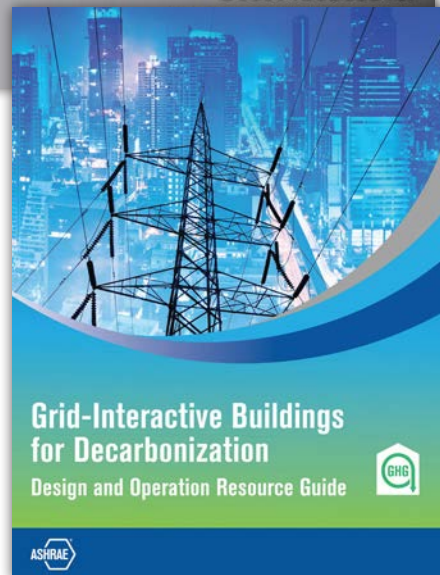
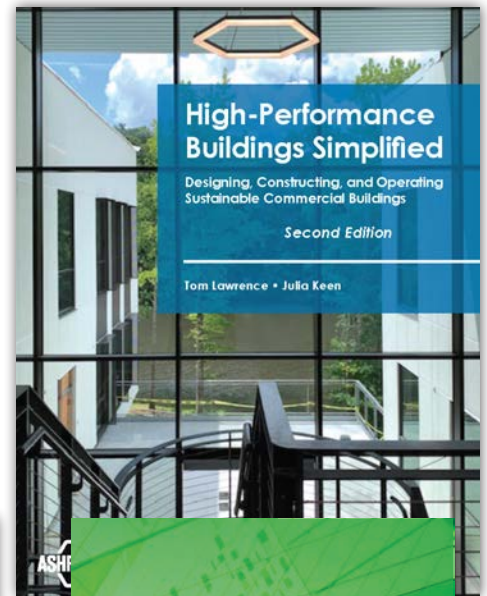
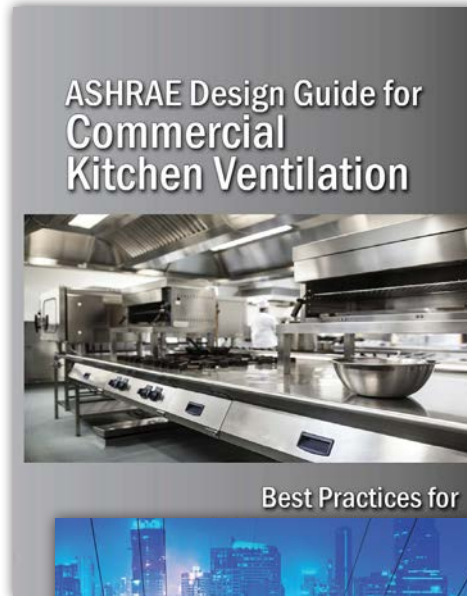
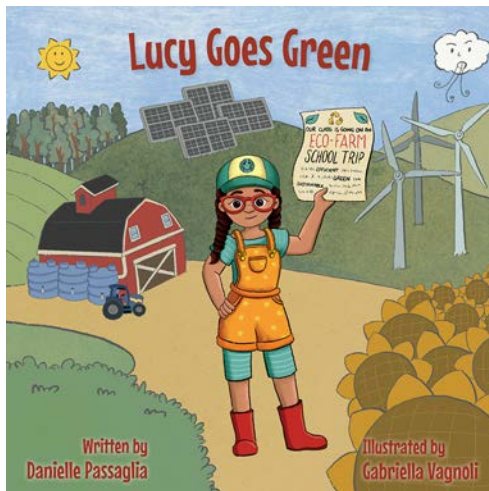




# Annual 2024 ASHRAE Publications Catalog

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## Inside You Will Find:

ASHRAE Publications .....3–9  
ASHRAE Standards .....10-14  
ASHRAE Guidelines ..... 15

*See inside for the most current  
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**ANSI/ASHRAE/IES Standard 100-2024**  
(Supersedes ANSI/ASHRAE/IES Standard 100-2018)  
Includes ANSI/ASHRAE/IES addenda listed in Appendix P

## Energy and Emissions Building Performance Standard for Existing Buildings

See Informative Appendix P for approval dates by ASHRAE, the Illuminating Engineering Society, and the American National Standards Institute.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website ([www.ashrae.org/continuous-maintenance](http://www.ashrae.org/continuous-maintenance)).

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Includes online access to Jurisdiction-Specific Methodologies



**Illuminating  
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# ASHRAE Publications

## A

### Absorption Cooling/Refrigeration Using Recovered Heat, Application Guide for (w/CD)

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Product code: 90667

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### Advanced Energy Design Guide for K-12 School Buildings: 50% Energy Savings

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Product code: 90388

### Advanced Energy Design Guide for K-12 School Buildings: Achieving Zero Energy

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Product code: 90464

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Product code: 90389

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Price: \$119 (ASHRAE Member: \$90)

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Product code: 90389

### Advanced Energy Design Guide for Small Hospitals and Healthcare Facilities: 30% Energy Savings

Price: \$83 (ASHRAE Member: \$62)

Product code: 90377

### Advanced Energy Design Guide for Small Office Buildings: 30% Energy Savings

Price: \$83 (ASHRAE Member: \$62)

Product code: 90435

### Advanced Energy Design Guide for Small Retail Buildings: 30% Energy Savings

Price: \$83 (ASHRAE Member: \$62)

Product code: 90432

### Advanced Energy Design Guide for Small to Medium Office Buildings: Achieving Zero Energy

Price: \$123 (ASHRAE Member: \$93)

Product code: 90459

### Advanced Energy Design Guide for Small to Medium Office Buildings: 50% Energy Savings

Price: \$119 (ASHRAE Member: \$90)

Product code: 90383

### Advanced Energy Design Guide for Small Warehouses and Self-Storage Facilities: 30% Energy Savings

Price: \$83 (ASHRAE Member: \$62)

Product code: 90436

### Advancing DCIM with IT Equipment Integration (Datacom Series Book 14)

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Product code: 90460

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### Air Terminal Units: Selection, Application, Control and Commissioning, ASHRAE Design Guide for

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Product code: 90571

### Annotated Guide to Load Calculation Models and Algorithms

Price: \$46 (ASHRAE Member: \$34)

Product code: 90390

### Application Guide for Absorption Cooling/Refrigeration Using Recovered Heat (w/CD)

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Product code: 90378

### Application Guide: Indoor Air Quality Standards of Performance

Price: \$59 (ASHRAE Member: \$45)

Product code: 90417

### Application of Manufacturers' Sound Data

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Product code: 90393

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**Product code:** 86528**Standard 169-2021, Climatic Data for Building Design Standards\***

Price: \$105 (ASHRAE Member: \$79)

**Product code:** 86022**Standard 170-2021, Ventilation of Health Care Facilities\* (IES co-sponsored)**

Price: \$140 (ASHRAE Member: \$105)

**Product code:** 86536**Standard 171-2017, Method of Testing for Rating Seismic and Wind Restraints \***

Price: \$67 (ASHRAE Member: \$50)

**Product code:** 86527**Standard 172-2017, Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86642**Standard 173-2012 (RA 2016), Method of Test to Determine the Performance of Halocarbon Refrigerant Leak Detectors \***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86761**Standard 174-2022, Method of Test for Rating Desiccant-Based Dehumidification Equipment\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86002**Standard 180-2018, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems\* (ACCA Approved)**

Price: \$105 (ASHRAE Member: \$79)

**Product code:** 86533**Standard 181-2018, Methods of Testing for Rating Liquid-to-Liquid Heat Exchangers\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86551**Standard 182-2020, Method of Testing Absorption Water-Chilling and Water-Heating Package\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86411**Standard 183-2007 (RA 2020), Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings\***

Price: \$92 (ASHRAE Member: \$69)

**Product code:** 86538**Standard 184-2020, Method of Test for Field Performance of Liquid-Chilling Systems\***

Price: \$92 (ASHRAE Member: \$69)

**Product code:** 86373**Standard 185.1-2020, Method of Testing UV-C Lights for Use in Air-Handling Units or Air Ducts to Inactivate Airborne Microorganisms\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86641**Standard 185.2-2020, Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surfaces\***

Price: \$75 (ASHRAE Member: \$56)

**Product code:** 86643

**Standard 188-2021, Legionellosis: Risk Management for Building Water Systems\***

Price: \$105 (ASHRAE Member: \$79)

Product code: 86646

**Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (ASHE Co-sponsored)\***

Price: \$92 (ASHRAE Member: \$69)

Product code: 86650

**Standard 190-2020, Method of Testing for Rating Indoor Pool Dehumidifiers (ANSI/ASHRAE Approved)**

Price: \$75 (ASHRAE Member: \$56)

Product code: 86613

**Standard 193-2010 (RA 2014), Method of Test for Determining the Airtightness of HVAC Equipment\***

Price: \$67 (ASHRAE Member: \$50)

Product code: 86516

**Standard 194-2017, Method of Test for Direct-Expansion Ground-Source Heat Pumps\***

Price: \$83 (ASHRAE Member: \$62)

Product code: 86619

**Standard 195-2013, Method of Test for Rating Air Terminal Unit Controls\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86620

**Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Removal Efficiency\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86623

**Standard 199-2016, Methods of Testing the Performance of Industrial Pulse Cleaned Dust Collectors\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86624

**Standard 200-2018, Methods of Testing Chilled Beams\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86633

**Standard 201-2016 (RA 2020), Facility Smart Grid Information Model (NEMA Co-sponsored)\***

Price: \$155 (ASHRAE Member: \$116)

Product code: 86638

**Standard 202-2018, Commissioning Process for Buildings and Systems (IES Co-sponsored)\***

Price: \$105 (ASHRAE Member: \$79)

Product code: 86622

**Standard 203-2018 (RA 2021), Method of Test for Determining Heat Gain of Office Equipment Used in Buildings\***

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Product code: D-86617

**Standard 204-2020, Method of Test for Rating Micro Combined Heat and Power Devices\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86323

**Standard 206-2013 (RA 2017), Method of Testing for Rating of Multipurpose Heat Pumps for Residential Space Conditioning and Water Heating\***

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**Standard 209-2018, Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings\***

Price: \$105 (ASHRAE Member: \$79)

Product code: 86608

**Standard 211-2018 (RA2023) -- Standard for Commercial Building Energy Audits (ANSI Approved) \*NEW**

Price: \$105 (ASHRAE Member: \$79)

Product code: 86884

**Standard 212-2019, Method of Test for Determining Energy Performance and Water-Use Efficiency of Add-On Evaporative Precoolers for Unitary Air-Conditioning Equipment\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86202

**Standard 214-2017 (RA 2023), Standard for Determining and Expressing Building Energy Performance in a Rating Program\*****\*NEW**

Price: \$92 (ASHRAE Member: \$69)

Product code: 86877

**Standard 215-2018 (RA 2021), Method of Test to Determine Leakage of Operating HVAC Air Distribution Systems**

Price: \$75 (ASHRAE Member: \$56)

Product code: 86648

**Standard 216-2020, Methods of Test for Determining Application Data of Overhead Circulator Fans\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86422

**Standard 217-2020, Non-Emergency Ventilation in Enclosed Road, Rail and Mass Transit Facilities\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86645

**Standard 218-2019, Method of Test for Lubricant and Refrigerant Miscibility Determination\***

Price: \$75 (ASHRAE Member: \$56)

Product code: 86301

**Standard 221-2020, Test Method to Field-Measure and Score the Cooling and Heating Performance of an Installed Unitary HVAC System**

Price: \$75 (ASHRAE Member: \$56)

Product code: 86644

**Standard 224-2023 -- Standard for the Application of Building Information Modeling (ANSI Approved) \*NEW**

Price: \$92 (ASHRAE Member: \$69)

Product code: 86893

**Standard 225-2020, Method for Performance Testing Centrifugal Refrigerant Compressors and Condensing Units\***

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Product code: 86657

**Standard 228-2023, Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance\* NEW**

Price: \$105 (ASHRAE Member: \$79)

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**Standard 230-2022, Commissioning Process for Existing Buildings and Systems\***

Price: \$92 (ASHRAE Member: \$69)

Product code: 86652

**Standard 241-2023, Control of Infectious Aerosols \*NEW**

Price: \$105 (ASHRAE Member: \$79)

Product code: 86883

**Standard 514-2023 -- Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards (ANSI Approved) \*NEW**

Price: \$111 (ASHRAE Member: \$82)

Product code: 86885



## Guidelines

### Guideline 0-2019, The Commissioning Process

Price: \$105 (ASHRAE Member: \$79)

Product code: 86856

### Guideline 0.2-2015, Commissioning Process for Existing Systems and Assemblies

Price: \$105 (ASHRAE Member: \$79)

Product code: 86847

### Guideline 1.1-2007, HVAC&R Technical Requirements for the Commissioning Process

Price: \$92 (ASHRAE Member: \$69)

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### Guideline 1.3-2018, Building Operations and Maintenance Training for the HVAC&R Commissioning Process

Price: \$92 (ASHRAE Member: \$69)

Product code: 86844

### Guideline 1.4-2019, Preparing Systems Manuals for Facilities\*

Price: \$105 (ASHRAE Member: \$79)

Product code: 86854

### Guideline 1.5-2017, The Commissioning Process for Smoke Control Systems

Price: \$92 (ASHRAE Member: \$69)

Product code: 86841

### Guideline 4-2019, Preparation of Operations and Maintenance Documentation for HVAC&R Systems

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Product code: 86853

### Guideline 10-2023, Interactions Affecting the Achievement of Acceptable Indoor Environments \*NEW

Price: \$75 (ASHRAE Member: \$58)

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### Guideline 11-2021, Field Testing of HVAC Controls Components

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Product code: 86871

### Guideline 12-2023: Managing the Risk of Legionellosis Associated with Building Water Systems \*NEW

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### Guideline 13-2020, Specifying Building Automation Systems

Price: \$165 (ASHRAE Member: \$124)

Product code: 86861

### Guideline 14-2014, Measurement of Energy, Demand, and Water Savings

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Product code: 86873

### Guideline 20-2010 (RA 2016), Documenting HVAC&R Work Processes and Data Exchange Requirements

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### Guideline 21-2022, Guide for the Ventilation and Thermal Management of Batteries for Stationary Applications (IEEE Standard 1635-2022)

Price: \$158 (ASHRAE Member: \$126)

Product code: 86880

### Guideline 22-2012, Instrumentation for Monitoring Central Chilled-Water Plant Efficiency

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Product code: 86832

### Guideline 23-2016, Guideline for the Design and Application of Heating, Ventilation, and Air-Conditioning Equipment for Rail Passenger Vehicles

Price: \$75 (ASHRAE Member: \$56)

Product code: 86843

### Guideline 27-2019, Measurement Procedures for Gaseous Contaminants in Commercial Buildings

Price: \$75 (ASHRAE Member: \$56)

Product code: 86858

### Guideline 28-2021, Air Quality within Commercial Aircraft

Price: \$92 (ASHRAE Member: \$69)

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### Guideline 29-2019, Guideline for the Risk Management of Public Health and Safety in Buildings

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### Guideline 32-2018, Management for Sustainable High-Performance Operations and Maintenance

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### Guideline 33-2021, Guideline for Documenting Indoor Airflow and Containment Transport Modeling

Price: \$75 (ASHRAE Member: \$56)

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### Guideline 34-2019, Energy Guideline for Historic Buildings

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### Guideline 36-2021, High-Performance Sequences of Operation for HVAC Systems

Price: \$132 (ASHRAE Member: \$99)

Product code: 86570

### Guideline 38-2023, Guideline for Using Metal Pressure Vessels to Test Materials used in Refrigeration Systems

\*NEW

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Product code: 86882

### Guideline 39-2017, Method of Test for Measuring Fractionated Compositions of Refrigerant Blends

Price: \$92 (ASHRAE Member: \$69)

Product code: 86366

### Guideline 40-2017, Refrigeration Oil Description

Price: \$75 (ASHRAE Member: \$56)

Product code: 86869

### Guideline 41-2023, Design, Installation and Commissioning of Variable Refrigerant Flow (VRF) Systems \*NEW

Price: \$92 (ASHRAE Member: \$69)

Product code: 86881



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- Principles of Heating, Ventilating, and Air Conditioning, 9th ed. (The Classroom Guide to ASHRAE Fundamentals)
- ASHRAE Handbook—HVAC Applications
- ASHRAE Handbook—Refrigeration
- ASHRAE Handbook—HVAC Systems and Equipment
- ASHRAE GreenGuide, 6th ed.
- Geothermal Heating and Cooling: Design of Ground-Source Heat Pump Systems
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