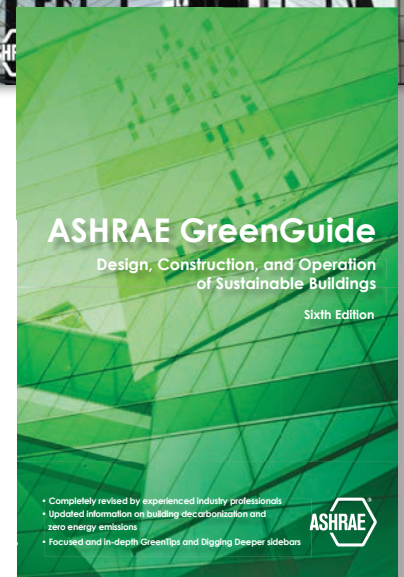
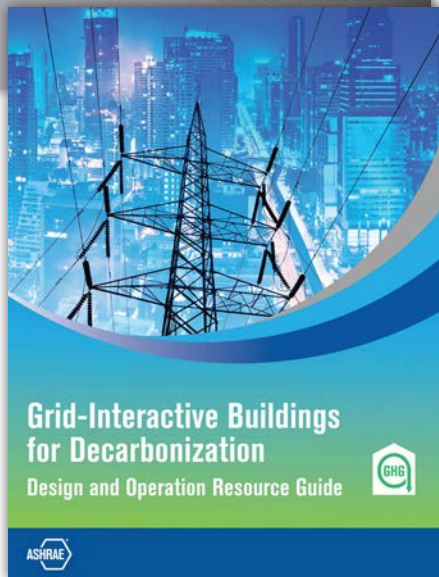
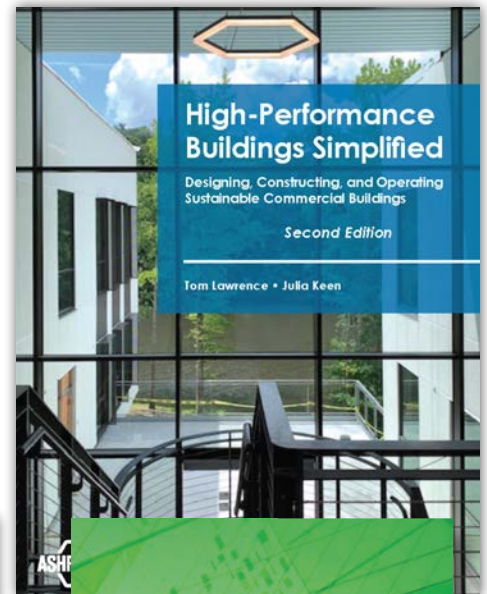
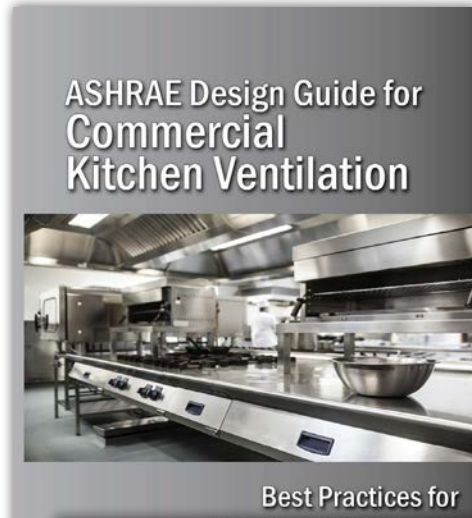
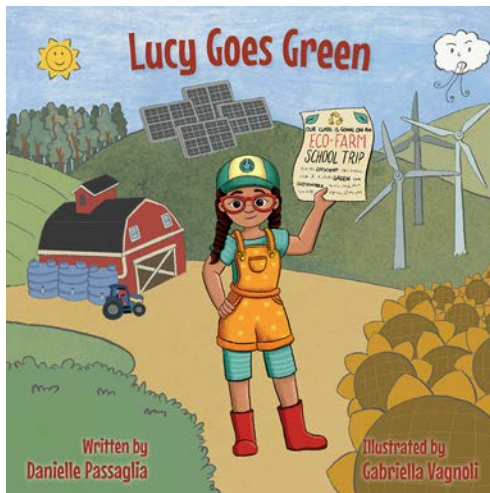




# Annual 2024 ASHRAE Publications Catalog

Great Resources for: Reference | Design Guidance | Learning



## Inside You Will Find:

- ASHRAE Publications ..... 3–9
- ASHRAE Standards ..... 10-14
- ASHRAE Guidelines ..... 15
- Non-ASHRAE Publications..... 16-20

*See inside for the most current HVAC&R technical literature from ASHRAE and other publishers.*



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## STANDARD

**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)).

The latest edition of an ASHRAE Standard may be purchased from the ASHRAE website ([www.ashrae.org](http://www.ashrae.org)) or from ASHRAE Customer Service, 180 Technology Parkway, Peachtree Corners, GA 30092. E-mail: [orders@ashrae.org](mailto:orders@ashrae.org). Fax: 678-539-2129. Telephone: 404-636-8400 (worldwide), or toll free 1-800-527-4723 (for orders in US and Canada). For reprint permission, go to [www.ashrae.org/permissions](http://www.ashrae.org/permissions).

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Includes online access to Jurisdiction-Specific Methodologies





# ASHRAE Publications

## A

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

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

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Product code: 90667

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Product code: 90563

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Product code: 90434

### 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

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

Product code: 90464

### Advanced Energy Design Guide for Medium to Big Box Retail Buildings: 50% Energy Savings

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

Product code: 90389

### Advanced Energy Design Guide for Large Hospitals: 50% Energy Savings

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

Product code: 90361

### Advanced Energy Design Guide for Medium to Big Box Retail Buildings: 50% Energy Savings

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

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)

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

Product code: 90460

### Adventures in Heat and Cold: Men and Women Who Made Your Lives Better

Price: \$65 (ASHRAE Member: \$49)

Product code: 40307

### Air-Conditioning System Design Manual, 3rd ed.

Price: \$125 (ASHRAE Member: \$94;

Student Member: \$49)

Product code: 90340

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

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

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)

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

Product code: 90378

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

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

Product code: 90417

### Application of Manufacturers' Sound Data

Price: \$65 (ASHRAE Member: \$49)

Product code: 90393

### ASHRAE and AIVC IAQ 2016—Defining Indoor Air Quality: Policy, Standards and Best Practices

Price: \$95 (ASHRAE Member: \$81)

Product code: D-2016IAQConf

### ASHRAE CD Binder

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**Product code:** 90335**ASHRAE Guide for Buildings in Hot and Humid Climates, 2nd ed.**

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**Product code:** 90442**ASHRAE Guide for Sustainable Refrigerated Facilities and Refrigeration Systems**

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**Product code:** 81220 (I-P), 81221 (SI)**ASHRAE IAQ 2013 Conference Collection: Environmental Health in Low Energy Buildings**

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**Product code:** D-2013IAQConf**ASHRAE Laboratory Design Guide: Planning and Operation of Laboratory HVAC Systems, 2nd ed.**

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**Product code:** 90562**Duct Fitting Database, ASHRAE, Ver. 6.05 (web-based)**

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**Product code:** D-94607**Duct Systems Design Guide**

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

**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\***

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

**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\***

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

**Product code:** 86636**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\***

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

**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)

**Product code:** 86876**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



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

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### Guideline 1.2-2019, Technical Requirements for the Commissioning Process for Existing HVAC&R Systems and Assemblies

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

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

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

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**Product code:** 96871

#### AccuDuct – Residential HVAC Duct Design Program (CD), Adtek Software

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**Product code:** 96869

#### AccuLoad – Residential HVAC Load Calculation Program (CD), Adtek Software

Price: \$520 (ASHRAE Member: \$441)  
**Product code:** 96868

#### ACG Commissioning Guideline, AABC

Price: \$27 (ASHRAE Member: \$27)  
**Product code:** 96350

#### Air Distribution Basics, Manual T, ACCA

Price: \$52 (ASHRAE Member: \$52)  
**Product code:** 96749

#### Air Filtration in HVAC Systems, REHVA

Price: \$80 (ASHRAE Member: \$80)  
**Product code:** 96347

#### Alternative Water Sources and Wastewater Management, McGraw-Hill

Price: \$62 (ASHRAE Member: \$62)  
**Product code:** 96196

#### Ammonia as a Refrigerant, 3rd ed., IIR

Price: \$73 (ASHRAE Member: \$73)  
**Product code:** 96649

#### Applied Data Analysis and Modeling for Energy Engineers and Scientists, Springer

Price: \$231 (ASHRAE Member: \$231)  
**Product code:** 96322

#### Automatic Controls - CIBSE Commissioning Code C

Price: \$81 (ASHRAE Member: \$60)  
**Product code:** 96564

### B

#### BACnet: The Global Standard for Building Automation and Control Networks, Momentum Press

Price: \$105 (ASHRAE Member: \$105)  
**Product code:** 96098

#### Balancing and Testing Air and Hydronic Systems; Manual B, ACCA

Price: \$62 (ASHRAE Member: \$62)  
**Product code:** 96741

#### Building Control Systems - CIBSE Guide H

Price: \$107 (ASHRAE Member: \$79)  
**Product code:** 96537

#### Building Energy Management Systems, 2nd ed., CRC Press

Price: \$105 (ASHRAE Member: \$105)  
**Product code:** 96766

#### Building Energy Metering, CIBSE

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#### Building Performance Simulation for Design, CRC

Price: \$126 (ASHRAE Member: \$126)  
**Product code:** 96768

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#### Change Orders, Productivity, Overtime-A Primer for the Construction Industry, 2016 ed., MCAA

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#### CHVAC-Commercial HVAC Loads Software- 2 Zone, Elite Software

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**Product code:** 96852A

#### CHVAC-Commercial HVAC Loads Software- 10 Zone, Elite Software

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#### CHVAC-Commercial HVAC Loads Software- 50 Zone, Elite Software

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#### CHVAC-Commercial HVAC Loads Software- 100 Zone, Elite Software

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**Product code:** 96852E

#### CleanCalc II- Cleanroom & Fab Energy Simulation & Analysis Program (CD), Hands Down Software

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#### Cleaning Fibrous Glass Insulated Air Duct Systems--Recommended Practices, NAIMA

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#### Cleanliness of Ventilation Systems, REHVA

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#### Cleanroom Design, Wiley

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#### Climate Change and the Indoor Environment: Impacts and Adaptations, CIBSE

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#### CO2 as a Refrigerant, IIR

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#### Combined Heat and Power for Buildings, AM12, CIBSE

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**Design Phase Commissioning Handbook, NEBB**  
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**Ductsize-HVAC Duct Sizing and Analysis Software-Equal Friction only, Elite Software**  
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**Product code:** 96797**International Energy Conservation Code (IECC) and ANSI/ASHRAE/IES Standard 90.1-2019: Energy Standard for Buildings Except Low-Rise Residential Buildings, 2021, ICC**

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**Product code:** 96795**International Mechanical Code, 2021, ICC**

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