



**BSR/ASHRAE/IES Addendum cx
to ANSI/ASHRAE/IES Standard 90.1-2019**

Public Review Draft

Proposed Addendum cx to Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings

**First Public Review (June 2022)
(Draft Shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum involves select Normative References that were not correctly addressed by previous updates in addendum CM. During public review of Addendum CM, commenters identified several additional Normative References to be corrected for the following organizations:

Air Conditioning, Heating and Refrigeration Institute (AHRI)
International Organization for Standardization (ISO)

These changes are being proposed separately from Addendum CM to ensure the original reference update does not experience delays in publication.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum cx to 90.1-2019

Modify Section 12 as follows (IP and SI Units.) Note that the references being modified in this addendum also appear in pending Addendum cm. The versions below are intended to correct certain titles from Addendum cm; upon publication, they will appear as shown below.

Reference	Title
Air Conditioning, Heating and Refrigeration Institute (AHRI) 2311 Wilson Blvd., Arlington, VA 22201	
ANSI/AHRI 400 (I-P/2015) ANSI/AHRI 401 (SI/2015)	Performance Rating of Liquid-to-Liquid Heat Exchangers
AHRI 550/590 (I-P/2020) (with Addendum 1) AHRI 551/591 (SI/2020) (with Addendum 1)	Performance Rating of Water-chilling and Heat-Pump Water-heating Packages Using the Vapor Compression Cycle
ANSI/AHRI Standard 920 (I-P/2015/2020) with Addendum 1 AHRI Standard 921 (SI/2020) with Addendum 1	Performance Rating of DX-Dedicated Outdoor Air System Units
ANSI/AHRI 1160 (I-P/2014) with addendum 1 ANSI/AHRI 1161 (SI/2014)	Performance Rating of Heat Pump Pool Heaters
ANSI/AHRI 1230 (I-P/2014/2021) with Addendum 1	Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-Conditioning and Heat Pump Equipment
AHRI Standard 1360 (I-P/2017) AHRI Standard 1361 (SI/2017)	Performance Rating of Computer and Data Processing Room Air Conditioners
International Organization for Standardization (ISO) ISO Central Secretariat BIBC II Chemin de Blandonnet 8, CP 4017-1214 Vernier, Geneva, Switzerland	
ANSI/AHRI/ASHRAE/ISO 13256-1:1998 (R2015/2012)	Water-Source Heat Pumps—Testing and Rating for Performance—Part 1: Water-to-Air and Brine-to-Air Heat Pumps
ANSI/AHRI/ASHRAE/ISO 13256-2:1998 (R2015/2012)	Water-Source Heat Pumps—Testing and Rating for Performance—Part 2: Water-to-Water and Brine-to-Water Heat Pumps