



**BSR/ASHRAE/IES Addendum as
to ANSI/ASHRAE/IES Standard 90.1-2022**

Public Review Draft

Proposed Addendum as to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low- Rise Residential Buildings

**Second Public Review (November 2024)
(Draft Shows Proposed Independent Substantive
Changes to Previous Public Review Draft)**

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FOREWORD

Standard 205-2023 was published by ASHRAE and is titled “Representation of Performance Data for HVAC&R and Other Facility Equipment,” which defines the formats for describing detailed performance data for chillers, unitary equipment, fan assemblies, direct expansion systems, motors, motor drives, and mechanical drives. This performance data is expected to be published by manufacturers of the equipment and primarily used by building energy modeling software. The SSPC 205 committee is continuing to work on expanding this list of data formats for other types of equipment primarily focused on HVAC. To represent performance data as accurately as possible, the formats described in Standard 205 are all in the form of data tables and keyword-value pairs. The tables and keywords vary by the type of equipment. In no case are traditional performance curves used in 205. To make sure that data and software that supports the 205 formats can be used as part of one of 90.1 performance paths, this proposal substitutes a newly defined term, “expanded performance data,” for most locations in 90.1 that used to reference “performance curves.”

This addendum impacts the optional performance paths in the standard designed to provide increased flexibility and, therefore, was not subjected to cost-effectiveness analysis.

[Note to Reviewers: This public review draft makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous draft 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 substantive changes.]

Addendum as to 90.1-2022

Revise Section 3.2 Definitions, Abbreviations, and Acronyms as follows:

Expanded performance data: Detailed performance characteristics, provided by the manufacturer or by a nationally recognized third party, for the equipment accounting that accounts for the variation of the capacity and energy consumption of that *equipment* at varying part-load conditions, operating temperatures, and other conditions, expressed as one or more matrices of data, performance curves, or mathematical equations along with the properties needed to describe the expected operating range of the *equipment*.