



**BSR/ASHRAE Addendum b to  
ANSI/ASHRAE Standard 145.2-2016**

**Public Review Draft**

# **Proposed Addendum b to Standard 145.2-2016, Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices**

**First Public Review (August 2019)  
(Draft shows Proposed Changes to Current Standard)**

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## FOREWORD

*This addendum makes changes to the Title, Purpose, and Scope of Standard 145.2-2016.*

**[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 b to Standard 145.2-2016

*Make changes to the TPS as follows.*

**Title: Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices**

### 1. PURPOSE

To provide a standard laboratory test method for assessing the performance of  ~~sorptive media~~ gas-phase air cleaning devices. The results of these tests can provide information to the engineer useful for the design and selection of air cleaning equipment and the design of air cleaning systems for controlling indoor concentrations of gaseous air contaminants.

### 2. SCOPE

**2.1** This standard prescribes a full-scale laboratory test method for measuring the performance of in-duct  ~~sorptive media~~ gas-phase air cleaning devices. ~~In this context, sorptive media are defined as the active agent of the air cleaner, whether granular or sheet or pleated, that operate by absorbing and/or chemically reacting with contaminant gases.~~ This test is conducted under steady state conditions at elevated gas challenge concentrations (relative to ventilation applications) and therefore should be used to compare devices rather than directly predict performance in any particular application.

**2.2** The method of testing measures the performance of air cleaning devices for removing one or more specified gaseous contaminants or gas mixtures intended to simulate operation during service life. The standard defines procedures for the dispersion of the gases required for conducting the test. The standard also provides a method for determining gas concentrations upstream of the air cleaning device to calculate removal efficiency.

**2.3** This standard establishes performance specifications for the equipment required to conduct the tests, defines methods of calculating and reporting results obtained from the test data and establishes a results reporting system that can be applied to gas-phase air cleaning devices covered by this standard.

**2.4** The test method defined by this standard is applied to a sample device that is supposed to be representative of other devices marketed with the same brand and model number.

**2.5** This standard does not apply to stand-alone room air cleaners.