



ADDENDA

**ANSI/ASHRAE Addendum g to
ANSI/ASHRAE Standard 62.1-2022**

Ventilation and Acceptable Indoor Air Quality

Approved by ASHRAE and the American National Standards Institute on October 31, 2024.

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Cognizant TC: 4.3, Ventilation Requirements and Infiltration

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FOREWORD

Addendum g provides additional templates to document air-cleaning systems used in compliance with the Indoor Air Quality Procedure in Section 6.3.

Informative Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum g to Standard 62.1-2022

Modify Informative Appendix I as shown.

14. INDOOR AIR QUALITY PROCEDURE

Section 6.3 permits the use of this performance-based procedure to design ventilation systems. ~~This~~ The first template documents the design criteria and assumptions made when using this procedure and justification of the design approach, as required by Section 6.3.2. This template is also provided in the IAQP calculator (see Informative Appendix F). ~~The second template provides documentation for filtration and air cleaning using mechanical fibrous filters and/or sorbents, as required by Section 6.3.4. The third template covers the documentation for other types of filtration and air-cleaning systems, excluding mechanical fibrous filters and/or sorbents, as required by Section 6.3.4.~~

1. IAQ Procedure Assumptions							
Contaminant of Concern	Contaminant Source	Contaminant Strength	Contaminant Target Concentration			Perceived IAQ	Design Approach
			Limit	Exposure Period	Cognizant Authority Reference		
(Identify and list)	(Identify and list)	(Determine and list)	(List)	(List)	(List)	(Percentage of satisfied building occupants)	(Select from Section 6.3.4 and include justification.)

2. Documentation for Filtration and Air-Cleaning Systems Based on Mechanical Fibrous Filters and/or Sorbents

Air Cleaning Test Method

<u>Type of Air Cleaning</u>	<u>Approved Test Methods</u>	<u>Air-Cleaner Efficiency Test Method</u> (check all that apply)
<u>Particulate matter filters</u>	<u>MERV per ASHRAE Standard 52.2 or ISO 16890</u>	<input type="checkbox"/> <u>ASHRAE Standard 52.2</u> <input type="checkbox"/> <u>ISO 16890</u>
<u>Gas-phase air cleaners</u>	<u>Efficiency per ASHRAE Standard 145.2 or ISO 10121-2</u>	<input type="checkbox"/> <u>ASHRAE Standard 145.2</u> <input type="checkbox"/> <u>ISO 10121-2</u>

3. Documentation for Filtration and Air-Cleaning Systems, Excluding Mechanical Fibrous Filters and/or Sorbents

Air Cleaning Test Method

Type of Air Cleaning	Approved Test Methods	Air Cleaner Efficiency Test Method (check all that apply)
Other air cleaners	Efficiency per ASHRAE standards, other national consensus standard approved by AHJ, or custom efficiency test approved by AHJ	<input type="checkbox"/> ASHRAE Standard 52.2 <input type="checkbox"/> ISO 16890 <input type="checkbox"/> ASHRAE Standard 145.2 <input type="checkbox"/> ISO 10121-2 <input type="checkbox"/> National consensus standard approved by the local AHJ <input type="checkbox"/> Custom efficiency test approved by the local AHJ

3.1 This section only applies if a national consensus standard is used to determine air cleaning efficiency.

National consensus standard(s) used: _____

Approval: AHJ _____ Approver name _____ Approval date _____

3.2 This section only applies if a custom efficiency test is used to determine air cleaning efficiency.

Testing Requirements for Each of the Design Compounds (DCs) and PM2.5	Approved by AHJ
Conducted by third-party lab	<input type="checkbox"/> Yes (compliant) <input type="checkbox"/> No (noncompliant)
Test of the background concentration without the air cleaning in operation	<input type="checkbox"/> Yes (compliant) <input type="checkbox"/> No (noncompliant)
Test of the output concentration with the air cleaning in operation	<input type="checkbox"/> Yes (compliant) <input type="checkbox"/> No (noncompliant)
Test conducted under air-cleaning operating conditions that match the IAQP design operating conditions (Include fan voltage, flow rate, and other settings that are consistent with the manufacturer's operating specifications.)	<input type="checkbox"/> Yes (compliant) <input type="checkbox"/> No (noncompliant)
Test conducted using the relevant laboratory methods for analysis and quantification specified in Tables 7-1 and 7-2	<input type="checkbox"/> Yes (compliant) <input type="checkbox"/> No (noncompliant)

Compound	Allowed Test Methods
VOCs except formaldehyde, acetaldehyde, and acetone	ISO 16000-6; EPA IP-1, EPA TO-17; ISO 16017-1; ISO 16017-2; ASTM D6345-10
Formaldehyde	ISO 16000-3; EPA TO-11; EPA IP-6; ASTM D5197 or testing method that is compliant with the California Air Resources Board's (CARB) § 93120
Acetaldehyde and acetone	ISO 16000-3; EPA TO-11; EPA IP-6; ASTM D5197
Carbon monoxide	ISO 4224; EPA IP-3

	Ozone	PM_{2.5}	Carbon Monoxide	Formaldehyde^a
Accuracy (±)	5 ppb	Greater of 5 µg /m ³ or 20% of reading	Greater of 3 ppm or 20% of reading	0.1 ppb
Resolution (±)	1 ppb	5 µg/m ³	1 ppm	2% full scale within calibrated linearity range

a. Include the "calibrated linearity range" in all reports.

Ozone Generating Devices—UL 2998 certification for air-cleaning devices that generate ozone. Yes (compliant) No (noncompliant)

Approval: AHJ _____ Approver Name: _____ Approval Date: _____

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ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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