



**BSR/ASHRAE Addendum n
to ANSI/ASHRAE Standard 62.2-2022**

Public Review Draft

Proposed Addendum n to Standard 62.2-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings

**First Public Review (March 2024)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

This proposed addendum would provide a path for filters that comply with ASHRAE Standard 241 and that are installed in permanently-installed equipment to use the filtered air delivery rate in Section 7.6.

[Note to Reviewers: This addendum makes proposed changes to the current standard. 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 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 n to 62.2-2022

Revise Section 4.1.4.1 as shown below (a dash is inserted between the words “permanently” and “installed”). Reference Addendum a to 62.2-2022. Published addenda are available for free on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.

4.1.4.1 Air Distribution System. Filtered air shall be supplied to or returned from all rooms in the habitable space through not less than one permanently-installed air-moving device.

Informative Note: A system of one or more permanently-installed air-moving devices that provides or does not provide space conditioning and supplies air from or returns air to the system’s associated filter(s) from every bedroom and living area complies with this requirement.

Modify Section 7.6 as shown below. The remainder of Section 7.6 is unchanged. Reference Addendum a to 62.2-2022. Published addenda are available for free on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.

7.6 Filtered Air Delivery Rate. Where qualifying filters are used in conjunction with permanently-installed air-moving devices, this section shall be used to determine the filtered air delivery rate (FADR) and the particle reduction factor (PRF) as needed. The FADR at any one time shall be the sum of the individual FADRs from permanently-installed air-moving devices operating at that time, calculated using Equation 7-1.

$$FADR = \sum_{i=1}^n FADR_i \quad (7-1)$$

where

$FADR$ = filtered air delivery rate at any one time

n = the number of permanently-installed air-moving devices providing an FADR at any one time

$FADR_i$ = the FADR for the i^{th} permanently-installed air-moving device, cfm/ft² (L/s/m²)

If no permanently-installed air-moving devices are in operation, the FADR shall be zero.

7.6.1 Permanently-Installed Air-Moving Devices. The FADR for a permanently-installed air-moving device using a qualifying filter shall be determined using Equation 7-2 or Equation 7-3.

$$FADR_i = V_{ACS}/A_{floor} \quad (7-2)$$

where

$FADR_i$ = filtered air delivery rate for the i^{th} permanently-installed air-moving device, cfm/ft² (L/s/m²)

V_{ACS} = equivalent clean airflow rate for the i^{th} permanently-installed air-moving device meeting the requirements of Section 7 of ASHRAE Standard 241, calculated from Section 7.2 or 7.3 of Standard 241, cfm (L/s)

A_{floor} = dwelling-unit floor area, ft² (m²)

$$FADR_i = 0.85 \cdot Q_{recirculated,i}/A_{floor} \quad (7-2) \quad (7-3)$$

where

$FADR_i$ = filtered air delivery rate for the i^{th} permanently-installed air-moving device, cfm/ft² (L/s/m²)

$Q_{recirculated,i}$ = recirculated airflow of the i^{th} permanently-installed air-moving device, cfm (L/s)

A_{floor} = dwelling-unit floor area, ft² (m²)

Add new reference to Section 10 as shown below.

10. References

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ASHRAE Standard 241 (2023) Control of Infectious Aerosols Section 7.6.1