



**BSR/ASHRAE Addendum f
to ANSI/ASHRAE Standard 62.1-2022**

Public Review Draft

Proposed Addendum f to Standard 62.1-2022, Ventilation and Acceptable Indoor Air Quality

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

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FOREWORD

This proposed addendum improves the resiliency of a building by improving the ability to adjust ventilation quickly and easily in response to air quality related emergency conditions. It will add a requirement for the control system to include an Economizer Shutdown and a Ventilation Increase mode of operation that may be enabled in response to conditions such as nearby wildfires (Economizer Shutdown) or a pandemic (Ventilation Increase). It includes a requirement for an automatic return to normal operation based on a timer control to avoid accidentally leaving the systems in one of the emergency modes after the emergency situation has passed.

The committee notes that ventilation controls for air quality emergencies were published as Addendum k to Standard 189.1-2020. This addendum to Standard 62.1-2022 borrows from Addendum k, but differs in part due to Standard 62.1's mission to provide the minimum, rather than enhanced, requirements of ventilation, indoor air quality, and operation.

[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 f to 62.1-2022

Add new Section 5.21 as shown below.

5.21 Outdoor Air Intake Controls for Air Quality Emergencies. The building control system shall include modes of operation to adjust ventilation rates. A timer-based reset shall automatically restore normal operation after a user adjustable period that shall be limited to not more than 72 hours. The control system shall allow initiation of the following modes:

- a. Economizer Shutdown: Disable economizer controls such that systems operate with minimum outdoor airflow only.
- b. Outdoor Air Intake Increase: Demand controlled ventilation (DCV) shall be disabled. The outdoor air intake flow (Vot) and the exhaust rates shall be set to the maximum rates designated by the Designer for system operation in this mode.

5.21.1 The initiation of these modes of operation shall trigger a control system notification.

Informative Note: An example emergency during which the Economizer Shutdown mode of operation may be employed is a nearby wildfire causing poor outdoor air quality. An example emergency during which the Ventilation Increase mode of operation may be employed is a period of indoor temporary unusual source.

Exceptions to 5.21:

1. Health care facilities, including hospitals, nursing facilities, and outpatient facilities.
2. Laboratory and other facilities where differential pressurization must be maintained to comply with health and safety requirements.
3. Systems that do not have a direct digital control (DDC) system.