Public Review Draft


First Public Review (February 2024)  
(Draft Shows Proposed Changes to Current Standard)

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FOREWORD

This addendum addresses the requirement for isolation zones in Section 6.4.3.3.4. It adds an exception to the requirement where ANSI/ASHRAE/ASHE Standard 170-2021 - Ventilation of Health Care Facilities or other standards require continuous airflow to maintain space pressure differential requirements.

There is no change in the cost of construction.
Addendum x to 90.1-2022

Modify the standard as follows (IP and SI Units)

6.4.3.3.4 Zone Isolation. HVAC systems serving zones that are intended to operate or be occupied non-simultaneously shall be divided into isolation areas. Zones may be grouped into a single isolation area provided it does not exceed 25,000 ft² of conditioned floor area nor include more than one story. Each isolation area shall be equipped with isolation devices capable of and configured to automatically shut off the supply of conditioned air and outdoor air to and exhaust air from the area. Each isolation area shall be controlled independently by a device meeting the requirements of Sections 6.4.3.3.1. For central systems and plants, controls and devices shall be provided to allow stable system and equipment operation for any length of time while serving only the smallest zone group served by the system or plant.

Exceptions to 6.4.3.3.4: Isolation devices and controls are not required for

1. exhaust air and outdoor air connections to isolation zones when the fan system to which they connect is 5000 cfm and smaller;
2. exhaust airflow from a single isolation zone of less than 10% of the design airflow of the exhaust system to which it connects; or
3. zones intended to operate continuously or intended to be inoperative only when all other zones are inoperative; or
4. for spaces where the use of isolation is prohibited by local codes, accreditation standards, or ASHRAE 170.

Informative Note: ASHRAE Guideline 36 includes detailed sequences of control for zone isolation using logical groups of zone air terminal units serving each isolation area.