



**Addendum w to
ASHRAE Guideline 36-2018**

Public Review Draft

Proposed Addendum w to Guideline 36-2018, High-Performance Sequences of Operation for HVAC Systems

**First Public Review (November 2020)
(Draft shows Proposed Changes to Current Guideline)**

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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FOREWORD

This addendum is to resolve inconsistencies between variable names used in Section 3.1.6.2 (Information Provided by Designer) and Section 5.2.1.4 for Single Zone Air Handling Units. This addendum also fixes a reference to $MinOA-P^$ in Section 5.18.8.3 to ensure the sequence works regardless of minimum outdoor airflow control approach (with or without an airflow monitoring station) and adds an option for direct building pressure control with actuated relief dampers without fans.*

Note: In this addendum, changes to the current guideline are indicated in the text by underlining (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes 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 substantive changes.

Addendum w to Guideline 36-2018

(IP and SI Units)

Revise Paragraph 5.2.1.4.d.3.vi as follows:

vi. For SZVAV AHUs:

- (a) The minimum outdoor air set point $MinOAsp$ shall be reset based on the zone CO_2 control-loop signal from ~~Zone Abs OA min~~ $MinOA$ at 0% signal to ~~Zone Des OA~~ $DesOA$ at 100% signal. See Figure 5.2.1.4-3.

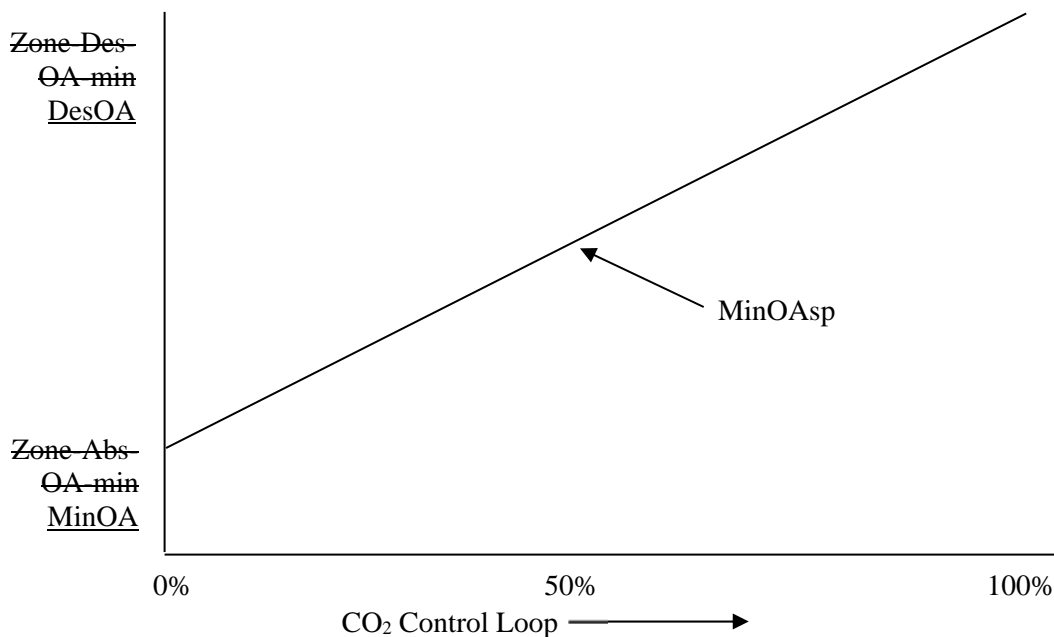


Figure 5.2.1.4-3 $Vmin^*$ reset with CO_2 loop (SZVAV).

Revise Section 5.18.8 as follows:

5.18.8 Control of Actuated Relief Dampers without Fans

The engineer must specify whether a building pressure sensor is utilized.

If a building pressure sensor is used, keep subsection (1) and delete subsection (2) for direct building pressure control.

If a building pressure is not used, keep subsection (2) and delete subsection (1) for passive building pressure control.

Delete this flag note after selection has been made.

5.18.8.1 Direct Building Pressure Control

Control logic for actuated relief dampers without fans is incorporated by reference in Section Error! Reference source not found.5.18.8.1. If the project includes both single-zone and multiple-zone AHUs, then no change is required. However, if the project includes only single-zone AHUs, we recommend deleting Section 5.18.8.1 and copying the full text of Section 5.16.8 in its place.

- a. Refer to Section 5.16.8, “Control of Actuated Relief Dampers without Fans” for multiple zone air handlers

5.18.8.2 Passive Building Pressure Control

- a. See Section Error! Reference source not found.3.2.2.3 for relief-damper position set points.
- b. 5.18.8.3 Relief-damper position shall be reset linearly from MinRelief to MaxRelief as the ~~commanded economizer damper position goes from MinPos* to 100% open~~minimum outdoor airflow setpoint, MinOAsp is reset from MinOA to DesOA.