Addendum o to
ASHRAE Guideline 36-2018

Public Review Draft

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

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

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FOREWORD

This addendum adds a sequence for general constant speed exhaust fans, which allows interlocked control based on Zone Group Mode or zone temperature regulation.
Addendum o to ASHRAE Guideline 36-2018, *High-Performance Sequences of Operation for HVAC Systems*
First Public Review

*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 o to Guideline 36-2018

(*IP and SI Units*)

*Add Section 4.9 as follows:*

4.9  **General Constant Speed Exhaust Fan**

<table>
<thead>
<tr>
<th>Re-</th>
<th>Description</th>
<th>Type</th>
<th>Device</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Exhaust Fan Start/Stop</td>
<td>DO</td>
<td>Connect to motor starter</td>
</tr>
<tr>
<td>Q</td>
<td>Exhaust Fan Status</td>
<td>DI</td>
<td>Current switch</td>
</tr>
<tr>
<td>A</td>
<td>Zone Temperature</td>
<td>AI</td>
<td>Room temperature sensor</td>
</tr>
</tbody>
</table>
Add Section 5.18 as follows:

5.18 General Constant Speed Exhaust Fan

5.18.1 Exhaust Fan Control

5.18.1.1 Exhaust Fan Start/Stop

The engineer must select between control options:

If the exhaust fan is to be operated with associated Zone Groups, keep subsection “1” and delete subsection “2”.

If the exhaust fan is to be cycled to maintain room temperature, keep subsection “2” and delete subsection “1”.

1. Exhaust fan shall operate when any of the associated system supply fans is proven on and any associated Zone Group is in the Occupied Mode. See 3.1.3 for Zone Group assignments.

2. Exhaust fan shall run when zone temperature rises above the active cooling setpoint until zone temperature falls more than 1°C (2°F) below the active cooling setpoint for 2 minutes.

The room temperature control method should only be used in non-occupied spaces where ventilation is not required (i.e., equipment rooms).

5.18.2 Alarms

5.18.2.1 Maintenance interval alarm when fan has operated for more than 3,000 hours: Level 4. Reset interval counter when alarm is acknowledged.

5.18.2.2 Fan alarm is indicated by the status being different from the command for a period of 15 seconds.

1. Commanded on, status off: Level 2

2. Commanded off, status off: Level 4
Add Informative Appendix A as follows:

Figure A-13 Constant speed exhaust fan with or without zone temperature sensor