



ADDENDA

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

High Performance Sequences of Operation for HVAC Systems

Approved by ASHRAE on August 24, 2020.

This addendum was approved by a Standing Guideline Project Committee (SGPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the guideline. Instructions for how to submit a change can be found on the ASHRAE® website (<https://www.ashrae.org/continuous-maintenance>).

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- b. participation in the next review of the Guideline,
- c. offering constructive criticism for improving the Guideline, or
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(This foreword is not part of this guideline. It is merely informative and does not contain requirements necessary for conformance to the guideline.)

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.

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.

Addendum o to Guideline 36-2018

(IP and SI Units)

Add Section 4.9 as follows:

4.9 General Constant Speed Exhaust Fan

<u>Re- quired ?</u>	<u>Description</u>	<u>Type</u>	<u>Device</u>
<u>R</u>	<u>Exhaust Fan Start/Stop</u>	<u>DO</u>	<u>Connect to motor starter</u>
<u>O</u>	<u>Exhaust Fan Status</u>	<u>DI</u>	<u>Current switch</u>
<u>A</u>	<u>Zone Temperature</u>	<u>AI</u>	<u>Room temperature sensor</u>

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

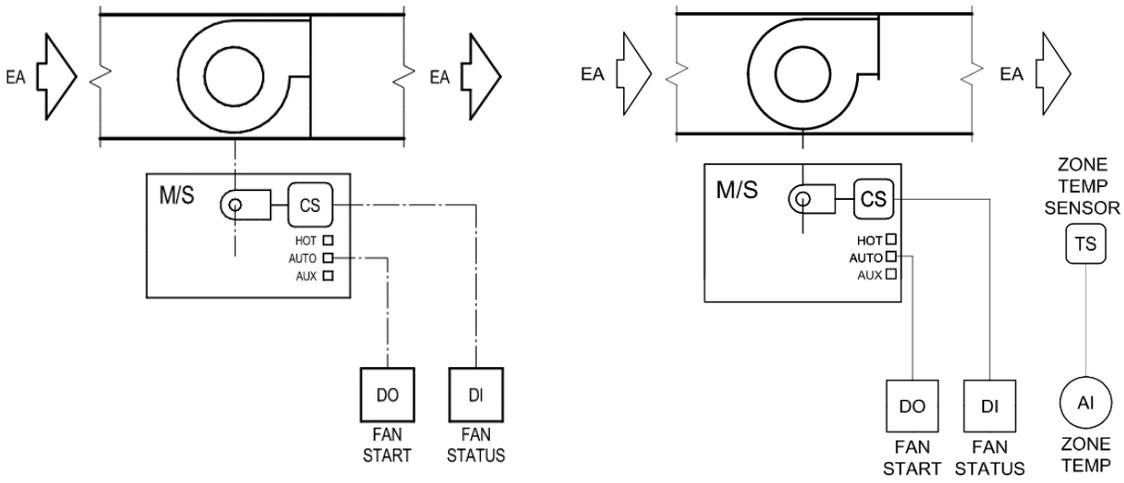
5.18.2.1 Maintenance interval alarm when fan has operated for more than 3,000 hours: Level 4. Reset interval counter when alarm is acknowledged.

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



POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating Standards and Guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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As an industry leader in research, standards writing, publishing, certification, and continuing education, ASHRAE and its members are dedicated to promoting a healthy and sustainable built environment for all, through strategic partnerships with organizations in the HVAC&R community and across related industries.

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