BSR/ASHRAE Addendum ac to
ANSI/ASHRAE Standard 15-2024

Second Public Review Draft

Proposed Addendum ac to Standard 15-2024, Safety Standard for Refrigeration Systems

Second Publication Public Review (May 2025)
(Draft shows Proposed Changes to Current Standard)

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(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This proposed Addendum ac to ASHRAE Standard 15-2024 modifies Section 7.6.2.5(d) to resolve an internal conflict within the standard. Section 7.6.3.3 of the standard states that it is acceptable to use hot surfaces exceeding 1290°F (700°C) so long as there is a minimum face velocity of 200 ft/min. The requirement is based on experimental testing that demonstrated the difficulty in igniting refrigerant with sufficient airflow. Section 7.6.2.5(d) of the standard requires de-energizing the hot surface even though Section 7.6.3.3 states the installation is acceptable provided that there is sufficient airflow. The solution is to only require disabling devices not complying with Section 7.6.3.3.

Note: 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 ac to Standard 15-2024

Modify Section 7 as follows. The remainder of Section 7 remains unchanged.

7.6.2.5* Mitigation Action Requirements. The following *mitigation actions shall* be completed in not more than 15 seconds after the initiation of the output signal of Section 7.6.2.4(h), and *shall* be maintained for at least five (5) minutes after the output signal has reset:
a. […]
b. […]
c.* […]
d. De-energize electric resistance heat installed in the *air duct* that is connected to the *refrigeration system*.

Exception to (d): De-energization of electric resistance heaters *shall not* be required when both of the following are met:
1. There is proof of airflow before and while energizing the electric resistance heater
2. Airflow through the electric resistance heater is proven greater than 200 ft/min (1.0 m/s)

e.* […]
f.* […]

[…]

7.6.3.3* Refrigeration Systems with Ductwork. Devices containing hot surfaces exceeding 1290°F (700°C) *shall not* be located in the ductwork that serves the space unless ~~there is an~~ the average airflow velocity is proven not less than 200 ft/min (1.0 m/s) across the ~~heating~~ device(s) ~~and there is proof of airflow~~ before and while energizing the ~~heating~~ device(s) ~~is energized~~. Average airflow velocity *shall* be determined by volumetric airflow rate divided by *duct* flow area.