ADDENDA

ANSI/ASHRAE Addendum t to
ANSI/ASHRAE Standard 34-2013

Designation and Safety Classification of Refrigerants

Approved by the ASHRAE Standards Committee on October 13, 2015; by the ASHRAE Technology Council on October 19, 2015; and by the American National Standards Institute on November 2, 2015.

This addendum was approved by a Standing Standard Project Committee (SSPC) 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 standard. The change submittal form, instructions, and deadlines may be obtained in electronic form from the ASHRAE website (www.ashrae.org) or in paper form from the Senior Manager of Standards.

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FOREWORD

This addendum adds the zeotropic refrigerant blend R-454B to Table 4-2 and Table D-2. The recommended flammability classification 2L is based on an LFL of 7.7 vol. %; a heat of combustion of 10,045 kJ/kg (4391 Btu/lb); and a burning velocity of 5.2 cm/s. The recommended toxicity classification A is based on an adopted OEL of 850 ppm v/v. The recommended ATEL is 170,000 ppm v/v.

Note: In this addendum, changes to the current standard 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 t to Standard 34-2013

Add the following underlined data to Table 4-2 and Table D-2 in the columns indicated.

TABLE 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 454B
Composition (Mass %) = R-32/1234yf (68.9/31.1)
Composition Tolerances = +1.0/–1.0,+1.0/–1.0
OEL = 850
Safety Group = A2L
RCL = 19,000 ppm v/v; 22 lb/Mcf; 360 g/m^3
Highly Toxic or Toxic Under Code Classification = Neither

TABLE D-2 Data for Refrigerant Blends

Refrigerant Number = 454B
Composition (Mass %) = R-32/1234yf (68.9/31.1)
Average Molecular Mass = 62.6
Bubble Point (°F) = –59.6
Dew Point (°F) = –58.0
Bubble Point (°C) = –50.9
Dew Point (°C) = –50.0

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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.

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