

ADDENDA

ANSI/ASHRAE Addendum d to ANSI/ASHRAE Standard 34-2022

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on January 31, 2023.

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FOREWORD

Addendum d adds the zeotropic refrigerant blend R-457D to Tables 4-2 and D-2.

Note: In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum d to Standard 34-2022

Modify Tables 4-2 and D-2 as shown.

Table 4-2 Data and Safety Classifications for Refrigerant Blends Definition

 Refrigerant Number = 457D

 Composition (Mass %) = R-32/1234yf/152a (4.0/82.0/14.0)

 Composition tolerances = +0.5, -1.5/+1.0, -1.0/+0.5, -1.5

 OEL = 580 ppm v/v

 Safety Group = A2L

 RCL = 14,000 ppm v/v; 3.6 lb/1000 ft³; 58 g/m³

 LFL = 57,000 ppm v/v; 14.9 lb/1000 ft³; 235 g/m³

 BV = 5.8 cm/s

 Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 457DComposition (Mass %) = R-32/1234yf/152a (4.0/82.0/14.0)Average Relative Molar Mass = 99.2 g/molBubble Point (°F) = -30.1Dew Point (°F) = -23.8Bubble Point (°C) = -34.5Dew Point (°C) = -31.0

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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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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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