



**BSR/ASHRAE Addendum c  
to ANSI/ASHRAE Standard 34-2024**

**Public Review Draft**

# **Proposed Addendum c to Standard 34-2024, Designation and Safety Classification of Refrigerants**

**First Public Review (February 2025)  
(Draft shows Proposed Changes to Current Standard)**

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180 Technology Parkway NW, Peachtree Corners, GA 30092

**(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 adds the zeotropic refrigerant blend R-497A to Tables 4-2 and D-2.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (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 c to Standard 34-2024

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

#### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 497A

Composition (Mass %) = R-1270/1311 (15.0/85.0)

Composition tolerances = (±0.3/±0.3)

OEL = 500 ppm<sub>v/v</sub>

Safety Group = A2

RCL = 1,400 ppm / 0.45 lb/1000 ft<sup>3</sup> / 7.1 g/m<sup>3</sup>

LFL = 40,000 ppm / 9.3 lb/1000 ft<sup>3</sup> / 147 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 497A

Composition (Mass %) = R-1270/1311 (15.0/85.0)

Average Relative Molar Mass = 126.5 g/mol

Bubble Point (°F) = -30.5 °F

Dew Point (°F) = -20.2 °F

Bubble Point (°C) = -34.7 °C

Dew Point (°C) = -29.0 °C