



ADDENDA

**ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 34-2022**

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on November 30, 2022.

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. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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Cognizant TC: 3.1, Refrigerants and Secondary Coolants

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FOREWORD

Addendum b adds the zeotropic refrigerant blend R-477A to Tables 4-2 and D-2.

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

Addendum b to Standard 34-2022

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

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 477A

Composition (Mass %) = R-1270/600a (84.0/16.0)

Composition tolerances = ±2.0/±2.0

OEL = 530 ppm v/v

Safety Group = A3

RCL = 1100 ppm v/v; 0.13 lb/1000 ft³; 2.0 g/m³

LFL = 21,000 ppm v/v; 2.4 lb/1000 ft³; 38 g/m³

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 477A

Composition (Mass %) = R-1270/600a (84.0/16.0)

Average Relative Molar Mass = 44.0 g/mol

Bubble Point (°F) = -48.3

Dew Point (°F) = -35.0

Bubble Point (°C) = -44.6

Dew Point (°C) = -37.2

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