



ADDENDA

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

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on March 29, 2024.

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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FOREWORD

Addendum x adds the zeotropic refrigerant blend R-490A to Tables 4-2 and D-2.

Informative 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 x 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 = 490A

Composition (Mass %) = R-1150/1270 (7.9/92.1)

Composition tolerances = +2.0, -1.0/+1.0, -2.0

OEL = 430 ppm v/v

Safety Group = A3

RCL = 1000 ppm v/v; 0.1 lb/1000 ft³; 1.7 g/m³

LFL = 22,000 ppm v/v; 2.4 lb/1000 ft³; 37 g/m³

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 490A

Composition (Mass %) = R-1150/1270 (7.9/92.1)

Average Relative Molar Mass = 40.48 g/mol

Bubble Point (°F) = -88.4

Dew Point (°F) = -58.2

Bubble Point (°C) = -66.9

Dew Point (°C) = -50.1

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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.

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Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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