



ADDENDA

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

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on August 30, 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 al adds the zeotropic refrigerant blend R-495A 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 al 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	Composition (Mass%) (Composition Tolerances)	OEL ^h , ppm v/v	Safety Group	RCL ^a			LFL ^j			BV (cm/s)	Highly Toxic or Toxic ^f Under Code Classification
				ppm v/v	lb/1000 ft ³	g/m ³	ppm v/v	lb/1000 ft ³	g/m ³		
[...]											
495A	R-32/1234yf/134a/1234ze(E) (4.5/76.0/9.0/10.5) (±0.5/±2.0/±1.0/±0.5)	580	A2L	19,000	5.3	85	77,000	22	340	≤4	Neither
[...]											

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number	Composition (mass %) ^a	Average Relative Molar Mass	Bubble Point, °F	Dew Point, °F	Bubble Point, °C	Dew Point, °C
[...]						
495A	R-32/1234yf/134a/1234ze(E) (4.5/76.0 /9.0/10.5)	107.2	-32.1	-23.3	-35.6	-30.7
[...]						

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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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The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

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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