



ADDENDA

**ANSI/ASHRAE Addendum f 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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Cognizant TC: 3.1, Refrigerants and Secondary Coolants

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FOREWORD

Addendum f adds the zeotropic refrigerant blend R-479A 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 f 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 = 479A

Composition (Mass %) = R-1132(E)/32/1234yf (28.0/21.5/50.5)

Composition tolerances = $\pm 2.0/\pm 2.0/\pm 2.0$

OEL = 510 ppm v/v

Safety Group = A2L

RCL = 15,000 ppm v/v; 3.0 lb/1000 ft³; 48 g/m³

LFL = 61,000 ppm v/v; 12.0 lb/1000 ft³; 193 g/m³

BV = 4.4 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 479A

Composition (Mass %) = R-1132(E)/32/1234yf (28.0/21.5/50.5)

Average Relative Molar Mass = 77.3 g/mol

Bubble Point (°F) = -58.8

Dew Point (°F) = -48.5

Bubble Point (°C) = -50.4

Dew Point (°C) = -44.7

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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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