



ADDENDA

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

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on April 28, 2023.

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Cognizant TC: 3.1, Refrigerants and Secondary Coolants

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FOREWORD

Addendum j adds the zeotropic refrigerant blend R-481A 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 j 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 = 481A

Composition (Mass %) = R-32/125/134a/1233zd(E)/601a (16.9/6.3/74.4/1.8/0.6)

Composition tolerances = $\pm 1.0/\pm 0.5/\pm 1.0/\pm 0.4/+0.1, -0.2$

OEL = 1000 ppm v/v

Safety Group = A1

RCL = 45,000 ppm v/v; 10 lb/1000 ft³; 160 g/m³

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 481A

Composition (Mass %) = R-32/125/134a/1233zd(E)/601a (16.9/6.3/74.4/1.8/0.6)

Average Relative Molar Mass = 88.6 g/mol

Bubble Point (°F) = -36.9

Dew Point (°F) = -22.9

Bubble Point (°C) = -38.3

Dew Point (°C) = -30.5

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