



BSR/ASHRAE Addendum r
to ANSI/ASHRAE Standard 34-2019

Public Review Draft

Proposed Addendum r to Standard 34-2019, Designation and Safety Classification of Refrigerants

First Public Review (March 2021)
(Draft shows Proposed Changes to Current Standard)

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FOREWORD

This addendum adds the zeotropic refrigerant blend R-427C to Tables 4-2 and D-2.

Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strike through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

Addendum r to Standard 34-2019

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

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 427C

Composition (Mass %) = R-32/125/143a/134a (25.0/25.0/10.0/40.0)

Composition tolerances = ±1.0/+2.0/±1.0/+2.0

OEL = 1000 ppm v/v

Safety Group = A1

RCL = 96,000 ppm v/v; 20.0 lb/Mcf; 330 g/m³

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 427C

Composition (Mass %) = R-32/125/143a/134a (25.0/25.0/10.0/40.0)

Average Relative Molar Mass = 83.3 g/mol

Bubble Point (°F) = -50.6

Dew Point (°F) = -38.9

Bubble Point (°C) = -45.9

Dew Point (°C) = -39.4