Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on September 30, 2021.

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FOREWORD

This addendum adds the zeotropic refrigerant blend R-468C 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 strikethrough (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum aa 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 = 468C
Composition (Mass %) = R-1132a/32/1234yf (6.0/42.0/52.0)
Composition tolerances = +0.5,–1.0/+0.5,–1.5/–1.0,+2.0
OEL = 710 ppm v/v
Safety Group = A2L
RCL = 23,000 ppm v/v; 4.3 lb/Mcf; 69 g/m³
Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends
Refrigerant Number = 468C
Composition (Mass %) = R-1132a/32/1234yf (6.0/42.0/52.0)
Average Relative Molar Mass = 73.7 g/mol
Bubble Point (°F) = –69.9
Dew Point (°F) = –51.2
Bubble Point (°C) = –56.6
Dew Point (°C) = –46.2
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.

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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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