

Solstice® N41 (R-466A - provisional)

Technical Information

Solstice N41 (R-466A - provisional) is a nonflammable, reduced global-warming-potential (GWP) refrigerant, designed to replace R-410A in stationary residential and commercial air conditioning systems. Solstice N41 offers an excellent capacity and efficiency match for R-410A. Solstice N41 is the only R-410A replacement that offers the combination of nonflammability with a GWP 60% lower than R-410A.

Applications

- Residential A/C systems
- Commercial A/C systems, such as chiller equipment

Environmental & Safety Benefits

- Nonflammable (ASHRAE A1) (preliminary)
- Reduced GWP of 733 (60% lower than R-410A)
- Non-ozone-depleting

Operational Benefits

- Energy efficiency equal to or better than R-410A
- Close performance match to R-410A
- No change in codes or service practices needed
- Compatible with existing R-410A equipment design



Solstice N41 Properties

ASHRAE Number (provisional)	466A
Composition	R-32 / R-125 / R-1311
Weight %	49%/11.5%/39.5%
Molecular Weight (g/mol)	80.7
Boiling Point at 1 atm	-51.7 °C
Critical Pressure	5908 kpa
Critical Temperature	83.8 °C
Liquid Density at 2.0 °C	1259 kg/m3
Ozone Depletion Potential (CFC-11 = 1.0)	~0
Global Warming Potential	733
ASHRAE Safety Classification	A1 (preliminary)
Full Temperature Glide at 20° C (if applicable)	1.5 °K
WEEL (8-hr TWA)	860

For more information:

Technical Support Team

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