



R-448A

GUARANTEED COMMERCIAL SPECIFICATION

STANDARD SPECIFICATION *	LIMIT VALUE
Composition	
- R-32	26% (+0.5% -2.0%)
- R-125	26% (+2.0% -0.5%)
- R-1234yf	20% (+0.5% -2.0%)
- R-134a	21% (+2.0% -1.0%)
- R-1234ze	7% (+0.5% -2.0%)
Purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Chlorine ion test (silver nitrate test)	Negative
Total Acidity (HCL)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume

* data producer

MAIN APPLICATIONS

R-448A is a non-azeotropic blend containing HFO refrigerants. It has been designed to replace R-404A in new and existing installations, for medium and low temperature commercial and industrial refrigeration applications. It is suitable for supermarkets and hypermarkets including centralised pack systems, chill and frozen cold stores, and refrigerated transport.

It can be used as a replacement for R-22 in some Dx applications, but must be in accordance with conversion guidelines.

OILS

Use a polyol ester (POE) oil.

Consult **Climalife** regarding the viscosity of the oil selected for your application and the most suitable for your application.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet *.

REGULATION

The use and implementation of R-448A are governed by the European Regulation No 517/2014.

The recovery of R-448A is mandatory under the European Regulation No 517/2014. (Refer to regulations enforced in each country.)

*Find the Safety Data Sheets (SDS) directly on our website www.climalife.dehon.com



R-448A

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R-448A PHYSICAL PROPERTIES

Molar mass	g/mol	86.3
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-46.12
Temperature glide at 1.013 bar	K	6.17
Saturated liquid density at 25°C	kg/m ³	1097
Vapour density at boiling point	kg/m ³	4.703
Vapour pressure at: 25°C 50°C	bar	12.88 23.73
Critical temperature	°C	82.68
Critical pressure	bar	45.95
Critical density	kg/m ³	477
Latent heat of vaporisation at boiling point	kJ/kg	241.48
Thermal conductivity at 25°C Liquid Vapour at 1.013 bar	W/m.K W/m.K	0.081 0.014
Surface tension at 25°C	10 ⁻³ N/m	6.64
Viscosity at 25°C Liquid Vapour at 1.013 bar	10 ⁻³ Pa.s 10 ⁻³ Pa.s	0.139 0.012
Specific heat at 25°C Liquid Vapour at 1.013 bar	kJ/(kg.K) kJ/(kg.K)	1.555 0.850
Cp/Cv ratio at 25°C at 1.013 bar		1.141
Flammability in air		Non-flammable
Flash point		None
Classification NF-EN 378 ASHRAE		Ongoing A1
Ozone Depletion Potential		0
GWP 4th Assessment 5th Assessment		1387 1273

Please contact your distributor or **Climalife** sales department for more information. In addition, if the refrigeration system you want to install, or are working on, does not appear to be a typical installation, please do not hesitate to contact us for advice and information.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.

For more information, please visit our website:



http://www.climalife.dehon.com/contact_us

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