



Ref.: FF.62 /01.18/V9/ EN

R-404A

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition:	
- R-143a	52 % (± 1 %)
- R-125	44% (± 2 %)
- R-134a	4 % (±2 %)
Guaranteed purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Chlorine ion test	Negative
Acidity (HCI)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High-boiling residues	≤ 0.01 % volume

MAIN APPLICATIONS

R-404A is a"near-azeotropic" HFC blend, designed for commercial, industrial and transport refrigeration applications.

It is traditionally used in new systems such as central refrigerating packs for supermarkets and hypermarkets, refrigerated warehouses, food deep-freezing facilities, and equipment for frozen food preservation and refrigerated trucks.

This fluid can also replace R-502 in existing applications by following the correct conversion procedure.

OILS

Use a polyol ester (POE) oil.

Check with **Climalife** regarding the viscosity of the oil selected for your application, and the miscibility with the fluid under consideration.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet*.

REGULATION

The use and implementation of R-404A are governed by EU Regulation n° 517/2014.

The recovery of R-404A is mandatory under EU Regulation n° 517/2014.

(Refer to the regulations enforced in each country)

^{*} Find the Safety Data Sheet (SDS) directly on our website www.climalife.dehon.com





R-404A PHYSICAL PROPERTIES

Molar mass	g/mol	97.6
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-46.23
Temperature glide at 1.013 bar	K	0.74
Saturated liquid density at 25°C	kg/m ³	1044
Saturated vapour density at boiling point	kg/m ³	5.48
Vapour pressure at: 25°C 50°C	bar bar	12.55 23.11
Critical temperature Critical pressure Critical density	°C bar kg/m³	72.04 37.29 487
Latent heat of vaporisation at boiling point	kJ/kg	200.94
Thermal conductivity of liquid at 25°C Thermal conductivity vapour at 1.013 bar	W/(m.K) W/(m.K)	0.064 0.015
Surface tension at 25°C	10 ⁻³ N/m	4.49
Solubility of water in the fluid at 25°C	% weight	0.055
Viscosity of liquid at 25° Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s 10 ⁻³ Pa-s	0.128 0.012
Specific heat of liquid at 25°C Specific heat of vapour at 1.013 bar	kJ/(kg.K) kJ/(kg.K)	1.542 0.877
Cp/Cv ratio at 25°C at 1.013 bar		1.118
Flammability in air		Non-flammable
Flash point	°C	None
NF-EN 378 classification ASHRAE classification		A1 A1
Ozone Depletion Potential	(R-11 = 1)	0
GWP IPCC-AR4 / IPCC-AR5	$(CO_2 = 1)$	3922/3943

Please contact your distributor or our **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.

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