



R-410A

GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition: R-32	50 % (+0.5% -1.5%)
R-125	50 % (+1.5% -0.5%)
Guaranteed purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Acidity (HCl)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume
High-boiling residues	≤ 0.01 % volume

MAIN APPLICATIONS

R-410A is a near azeotropic HFC blend. It is mainly used in air conditioning and industrial refrigeration applications.

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

Use, implementation and recovery are governed by European regulation no. 2024/573.

It is also important to refer to the regulations in force in each country in Europe and outside Europe.

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



R-410A PHYSICAL PROPERTIES

Molar mass	g/mol	72.59
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-51.45
Temperature glide at 1.013 bar	K	0.08
Saturated liquid density at 25°C	kg/m ³	1059
Saturated vapour density at boiling point	kg/m ³	4.173
Vapour pressure at: 25°C	bar	16.57
50°C	bar	30.71
Critical temperature	°C	71.3
Critical pressure	bar	49.01
Critical density	kg/m ³	459
Latent heat of vaporisation at boiling point	kJ/kg	272.97
Thermal conductivity of liquid at 25°C	W/(m.K)	0.089
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.013
Surface tension at 25°C	10 ⁻³ N/m	5.32
Viscosity of liquid at 25°C	10 ⁻³ Pa-s	0.118
Viscosity of vapour at 1.013 bar	10 ⁻³ Pa-s	0.013
Specific heat of liquid at 25°C	kJ/(kg.K)	1.708
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.823
Cp/Cv ratio at 25°C at 1.013 bar		1.176
Flammability in air		Non-flammable
Flash point	°C	None
Classification NF-EN 378 / ASHRAE PE(S)R		A1 Category 2
Ozone Depletion Potential	(R-11 = 1)	0
GWP according to Regulation (EU) 2024/573 (F-Gas III) GWP (AR4 / AR6)	(CO ₂ = 1)	2088 2088 / 2256

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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