



## R-410A

### GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATIONS	LIMIT VALUE
Composition: R-32 R-125	50 % (+0.5% -1.5%) 50 % (+1.5% -0.5%)
Guaranteed purity	≥ 99.5 % weight
Water content	≤ 10 ppm weight
Chlorine ion test	Negative
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 very near azeotropic HFC blend mainly intended for new installations. 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

The use and implementation of R-410A are governed by EU Regulation n° 517/2014.

**The recovery of R-410A is mandatory under EU Regulation n° 517/2014.**

(Refer to regulations enforced in each country)

\* Find the Safety Data Sheet (SDS) directly on our website [www.climalife.dehon.com](http://www.climalife.dehon.com)



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## R-410A PHYSICAL PROPERTIES

Molar mass	g/mol	72.6
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-51.6
Temperature glide at 1.013 bar	K	0.05
Saturated liquid density at 25°C	kg/m <sup>3</sup>	1061
Saturated vapour density at boiling point	kg/m <sup>3</sup>	4.173
Vapour pressure at: 25°C 50°C	bar bar	16.5 30.6
Critical temperature	°C	70.17
Critical pressure	bar	47.7
Critical density	kg/m <sup>3</sup>	552
Latent heat of vaporisation at boiling point	kJ/kg	271.5
Thermal conductivity of liquid at 25°C	W/(m.K)	0.098
Thermal conductivity vapour at 1.013 bar	W/(m.K)	0.0124
Surface tension at 25°C	10 <sup>-3</sup> N/m	5.01
Viscosity of liquid at 25°C	10 <sup>-3</sup> Pa-s	0.121
Viscosity of vapour at 1.013 bar	10 <sup>-3</sup> Pa-s	0.0134
Specific heat of liquid at 25°C	kJ/(kg.K)	1.69
Specific heat of vapour at 1.013 bar	kJ/(kg.K)	0.822
Cp/Cv ratio at 25°C at 1.013 bar		1.175
Flammability in air		Non-flammable
Flash point	°C	None
NF-EN 378 classification		L1
Ozone Depletion Potential	(R-11 = 1)	0
GWP	(CO <sub>2</sub> = 1)	2088

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.

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](http://www.climalife.dehon.com/contact_us)

