



## R-470A

### GUARANTEED COMMERCIAL SPECIFICATIONS

STANDARD SPECIFICATION *	LIMIT VALUE
Composition	
- R-227ea	3.0 % ( $\pm 0.5\%$ )
- R-134a	7.0 % ( $\pm 0.5\%$ )
- R-744 (CO <sub>2</sub> )	10.0 % ( $\pm 1.0\%$ )
- R-32	17.0 % ( $\pm 1.0\%$ )
- R-125	19.0 % ( $\pm 1.0\%$ )
- R-1234ze	44.0 % ( $\pm 2.0\%$ )
Purity	$\geq 99.5$ % weight
Water content	$\leq 10$ ppm weight
Total Acidity (HCL)	$\leq 1$ ppm weight
Non-condensable content (gas phase)	$\leq 1.5$ % volume

\* data producer

### MAIN APPLICATIONS

R-470A is a non-flammable mixture of hydrofluorocarbon (HFC) and hydrofluoro-olefin (HFO).

It is offered as a replacement for R-410A in small capacity split air conditioning systems.

### OILS

Use a polyol ester (POE) oil.

Consult **Climalife** to select the right oil for the refrigerant.

### PRECAUTIONS OF USE

Refer to the Safety Data Sheet\*.

### REGULATION

Use, implementation and recovery of **R-470A** 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 the Safety Data Sheet (SDS) directly on our website [www.climalife.com](http://www.climalife.com)

## R-470A PHYSICAL PROPERTIES

Molar mass	g/mol	84.4
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	- 62.66
Temperature glide at 1.013 bar	K	27.04
Saturated liquid density at 25°C	kg/m <sup>3</sup>	1101
Vapour density at boiling point	kg/m <sup>3</sup>	4.477
Vapour pressure at: 25°C 50°C	bar	18.43 30.97
Critical temperature	°C	88.70
Critical pressure	bar	55.92
Critical density	kg/m <sup>3</sup>	481
Latent heat of vaporisation at boiling point	kJ/kg	268.45
Thermal conductivity at 25°C Liquid Vapour at 1.013 bar	W/m.K	0.085 0.014
Surface tension at 25°C	10 <sup>-3</sup> N/m	6.23
Viscosity at 25°C Liquid Vapour at 1.013 bar	10 <sup>-3</sup> Pa.s	0.139 0.013
Specific heat at 25°C Liquid Vapour at 1.013 bar	kJ/(kg.K)	1.584 0.854
Cp/Cv ratio at 25°C under 1.013 bar		1.141
Flammability in air		Non flammable
Flash point		None
Classification NF-EN 378 PE(S)R		A1 Category 2
Ozone Depletion Potential		0
GWP according to Regulation (EU) 2024/573 (F-Gas III)		977
GWP (AR4 / AR6)		980 / 1057

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.*



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