



**ColdAir** Srl  
Specialisti in gas refrigeranti

# R410A

**NAME:** R410A  
**TYPE:** MIXTURE OF HFC32 - HFC125 (50/50%)  
**CHEMICAL FORMULA:** CH<sub>2</sub>F<sub>2</sub>/CHF<sub>2</sub>CF<sub>3</sub>  
**TYPICAL USE:** REFRIGERANT GAS

**TYPICAL PROPERTIES:** (in according to AHRI 700-2017)

HFC-32	50	(48,5÷50,5)* % wt
HFC-125	50	(49,5÷51,5)* % wt
PURITY	> 99,5	% wt
MOISTURE	< 10	ppm
ACIDITY (as HCL)	< 1	ppm
CHLORIDES	< 3	ppm
EVAPORATION RESIDUE	< 100	ppm
UNCONDENSABLE GASES	< 1,5	% Vol

**CHEMICAL - PHYSICAL PROPERTIES:**

Color	Colorless	
Smell	Ethereal	
Molecular Weight	72,6	Kg/mol
Boiling Point at 1013 mbar	-51,6	°C
Critical temperature	71,40	°C
Critical Pressure	47,7	Bar
Liquid density at 25° C	1,061	Kg/l
Vapour density at 25° C	65,56	Kg/m <sup>3</sup>
Specific Heat of the saturated liquid cp at 25°C	1,692	kJ/kg
Specific Heat of the saturated vapor cp at 25°C	1,346	kJ/kg
Ratio cp/cv (saturated vapour) at 25°C	1,55	
Enthalpy at 25°C	186,4	kJ/kg
Vapor Pressure at 20°C (a)	14,4	Bar
Vapor Pressure at 50°C (a)	30,6	Bar
Flammability	none	

\*Limit of specific

GWP	2088
ODP	0
ADR/RID	2.2
UN NUMBER	3163
ASHRAE	A1