

## R-410A (English version)

Chemical name: Pentafluorethane / Difluormethane  
 Formula:  $\text{CHF}_2\text{CF}_3 / \text{CH}_2\text{F}_2$

### Specification / grade

Purity	99.5 weight %		
Mixture	R-32	Min 48.5 – Max	50.5 weight %
	R-125	Min 49.5 – Max	51.5 weight %
Impurity	Moisture	10 ppm	
	Residue	50 ppm	
	Acidity as HCl	0.1 ppm	

### Cylinder / content specification

	$V_{\text{cyl}}$ (l)	$m_{\text{gas}}$ (kg)	Product code
Cylinders	12	10	2270112
	61	52	2270161

### Cylinder characteristics

Colour according to standard	--		
Shoulder	Pure white	RAL 9010	
Cylindrical part	Pure white	RAL 9010	
Connection according to NEN 3268	RU 1		

### Physical properties

Average molecular weight (kg/kmol)	72.6		
Density saturated vapour (kg/m <sup>3</sup> at -15 °C)	18,52		
Density liquid (kg/m <sup>3</sup> at 25 °C)	1062		
Boiling point (°C) (K)	-51.5	respective	221.7
Critical temperature (°C) (K)	72.1	respective	345.3
Vapour pressure (bar at 25 °C)	16.53		

### Additional information

Material Safety Data Sheet	Cooling gas R-410A (VIB nr. 9208)
Product description	Colourless liquid with ethereal odour
Designation according to ASHRAE	R-410A
Ozone depletion potential (O.D.P.) (CFK-11 = 1)	0
Warming up factor (HGWP) (CFK-11 = 1)	0.46

### Applications

Air treatment installations, air co's Transport cooling and freezing units	Cooling agent for temperature area between -60 °C and 0 °C
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