

PRODUCT DESCRIPTION

Frogen® 410A, developed by Frogen® Ltd, serves as the primary global replacement of ozone-depleting refrigerants in residential and commercial unitary air conditioners. R-410A is an azeotropic mixture of HFC-32 and HFC-125, with near-zero glide allowing for both predictable performance and easy handling and recycling. Millions of R-410A air conditioners have been sold around the world, and over 25 equipment manufacturers now offer R-410A options in their product line.

R-410A has significantly higher capacity and moderately higher operating pressure than R-22, making it a cost-effective replacement for R-22 in higher efficiency air conditioning and heat pump systems. In new unitary systems optimized for R-410A use with either scroll or reciprocating compressors, R-410A has been shown in tests to have a 5-to-6 percent higher Energy Efficiency Rating (EER) than R-22. The higher capacity also enables the design of smaller, more compact air-conditioning equipment.

Because it behaves like an azeotrope, R-410A is easy to service in the field. It won't meaningfully change composition if an air conditioner suffers a refrigerant leak, Frogen® 410A can be easily recovered and reclaimed, giving it a substantial advantage over other R-22 replacements such as R-407C or R-417A. Frogen® 410A has been given an A1 safety classification by ASHRAE.

Frogen® 410A is not designed for use as a retrofit refrigerant for R-22. Working with R-410A requires that you use tools, pumps, and recovery equipment and tanks rated for the higher pressure. Frogen® 410A refrigerant is available in a variety of package sizes. Equipment manufacturers who require help in converting their products from R-22 to R-410A should contact us to take advantage of our global experience in helping OEMs to optimize systems for this high-performance refrigerant.



PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	:	Difluoromethane (HFC-32)
	:	Pentafluoroethane (HFC-125)
Chemical Formula	:	CH ₂ F ₂ , CHF ₂ CF ₃
Molecular Weight	:	72.6
Appearance	:	Clear, Colorless Liquid and Vapor
Physical State	:	Gas at Ambient Temperature
Odor	:	Faint Ethereal Odor
Specific Gravity (water = 1.0)	:	1.08 @ 21.1°C (70°F)
pH	:	Neutral
Boiling Point	:	-48.5°C (-55.4 °F)
Freezing Point	:	Not Determined
Vapor Pressure	:	215.3 psia@ 21.1°C, 490.2 psia@ 54.4°C
Vapor Density	:	3.0 (Air =1.0)



CONTACT

W: www.frogen.co.uk

E: sales@frogen.co.uk

APPLICATIONS

Refrigeration Purposes Refrigerator Vans and Trucks

For more information please contact our Technical Support Team

PACKING

Ton Tanks
(1000 Kg Per Drum or Torpedoes)

ISO Tankers
(ISO Tank Containers 20,000 Kg)

Disposable Cylinders
(11.3 Kg Per Cylinders)