

## PRODUCT DESCRIPTION

Frogen® 407C was developed by Frogen® Ltd. to provide a non-ozone depleting substitute for Frogen® 22 in a range of air-conditioning applications, as well as a variety of refrigeration systems. Because Frogen® 407C is closely matched in performance with Frogen® 22, it can also serve as a retrofit refrigerant fluid in applications which have previously used Frogen® 22.

### Applications

Frogen® 407C, a blend of HFC-32/HFC-125/HFC-134a, can also serve as a replacement for Frogen® 22 in residential and light commercial air-conditioning systems. Because Frogen® 407C has little or no capacity decrease relative to Frogen® 22, it has an easy fit with existing equipment designs. However, when retrofitting these systems to Frogen® 407C some loss of efficiency will occur and some equipment modification will be necessary when retrofitting these systems to Frogen® 407C. In designing for new equipment, some design changes may be needed if retention of efficiency ratings is desirable.

Frogen® 407C can replace Frogen® 22 in positive displacement chillers that do not have flooded heat-exchangers, but because Frogen® 407C is a blend with a temperature glide, it is not recommended for use in chillers with flooded evaporators. Frogen® 407C may also be used to replace Frogen® 22 in existing medium-temperature commercial refrigeration systems, including supermarket display cases and reach-in coolers.

## PHYSICAL AND CHEMICAL PROPERTIES

Chemical name	:	Difluoromethane, Pentafluoroethane
	:	1,1,1,2-Tetrafluoroethane
Chemical Formula	:	CH <sub>2</sub> F <sub>2</sub> , CF <sub>3</sub> CHF <sub>2</sub> , CH <sub>2</sub> FCF <sub>3</sub>
Molecular Weight	:	86.2
Appearance	:	Clear, Colorless Liquid
Physical State	:	Gas at Ambient Temperature
Odor	:	Faint Ethereal Odor
Specific Gravity (water = 1.0)	:	1.16 @ 21.1°C (70°F)
pH	:	neutral
Boiling Point	:	-43 °C (-45.4 °F)
Freezing Point	:	Not Determined
Vapor Pressure	:	156.2 psia@ 21.1°C, 356.7 psia@ 54.4°C
Vapor Density	:	3.0 (Air =1.0)



### CONTACT

**W:** [www.frogen.co.uk](http://www.frogen.co.uk)

**E:** [sales@frogen.co.uk](mailto:sales@frogen.co.uk)



## APPLICATIONS

### Replacement of R-22

### Light Commercial Air-Conditioning Applications.

### Refrigeration Uses.

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)