REFRIGERANT FACT SHEET
R407C

CHARACTERISTICS

R407C is a non-flammable HFC blend refrigerant developed for use in air conditioning systems. Suitable for residential and direct expansion air conditioning systems.

R407C is suitable for medium temperature refrigeration equipment. R407C was used to replace R22 by many equipment manufacturers.

Gas2Go® recommends alternative refrigerants with substantially lower GWP.

PERFORMANCE

- R407C is a replacement refrigerant for R22
- Designed to have similar properties to R22 in air conditioning systems
- R407C can be used in many commercial systems as a retrofit option providing systems are modified to POE
- Alternatives include R407A and R407F

APPLICATIONS

Air Conditioning
- Commercial
- Domestic

PHYSICAL ATTRIBUTES

- **ODP:** 0
- **GWP:** 1774
- **Class/ Type:** Zeotropic (A1)
- **Refrigerant Kind:** HFC Blend
- **Oil Type:** Polyolester Oil (POE)
- **Glide:** 7.2K

FEATURES

- Energy efficiency equivalent to R22
- Closest match in capacity to R22
- Can be used in new or retrofit systems
- Liquid charge

THERMODYNAMIC PERFORMANCE

- Comparable physical performance and characteristics to R22
- Good efficiency across various ambient temperatures

PRODUCT PART NUMBERS

- **H407C11** 11kg Cylinder
- **H407C18** 18kg Cylinder
- **H407C60** 60kg Cylinder
- **H407400** 400kg Cylinder

For safety, handling and storage information please refer to the MSDS (available on Chemwatch)

PRESSURE TEMPERATURE CHART

Liquid (bubble) Temp C°	Vapour (dew) Temp C°	Pressure (kPa)
-2	-32	-44
8	-25	-42
19	-16	-40
30	-7	-38
43	3	-36
56	14	-34
71	25	-32
86	37	-30
102	51	-28
119	65	-26
138	80	-24
158	96	-22
179	113	-20
201	132	-18
224	152	-16
249	172	-14
276	195	-12
303	218	-10
333	244	-8
364	270	-6
396	298	-4
430	328	-2
467	359	0
504	392	2
544	427	4
586	464	6
629	503	8
675	544	10
723	586	12
773	631	14
825	678	16
879	727	18
936	779	20
995	833	22
1057	889	24
1121	949	26
1188	1010	28
1258	1075	30
1330	1142	32
1405	1212	34
1438	1285	36
1564	1361	38
1648	1440	40
1735	1522	42
1825	1608	44
1918	1697	46
2015	1790	48
2115	1886	50

PHYSICAL PROPERTIES

Class/ Type	Single Component
Formula	52% R134a/ 25% R125/ 23% R32
Kind	HFC
Appearance	Colourless
ODP	0
GWP	1774
Ashrae Std. 34 Safety Class	A1

Units	Physical Properties
Molecular Weight	86.2 g/mol
Boiling Temperature	-43.6°C
Critical Temperature	86.03°C
Critical Pressure	46.29 bar
Critical Volume	0.00190 m^3/ kg
Critical Density	527.3 kg/m^3
Liquid Density at 0°C	113.75 kg/m^3
Liquid Density at 25°C	1134 kg/m^3
Vapour Density at 25°C	43.77 kg/m^3
Vapour Pressure at 25°C	1100 kPa

OUR SERVICES

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