# refrigerant fact sheet **R422D**



# **CHARACTERISTICS**

R422D is a non-ozone depleting HFC based refrigerant designed for the replacement of R22 in refrigeration and air conditioning direct expansion systems. R422D offers similar performance to R22. R422D should not be used in flooded systems.

Gas2Go® recommends alternative refrigerants with substantially lower GWP.

# PERFORMANCE

- Capacity and energy efficiency is equivalent to R22
- Polyolester oil is recommended (contact OEM for more information)
- Refrigerant must be charged from the liquid phase to ensure accurate composition
- As with any retrofit, consideration should be given to all seals/gaskets and should be replaced at time of retrofit

# **APPLICATIONS**



Low Temperature Refrigeration



Medium Temperature Refrigeration



Air Conditioning



Water Chillers

# **PHYSICAL ATTRIBUTES**



- **ODP:** 0
- **GWP:** 2729
- Type (class): Zeotropic blend (A1)
- Refrigerant Kind: HFC blend
- **Oil Type:** Polyolester oil (POE)
- **Glide:** 2.3K

## **FEATURES**

- Lower discharge temperature than R22, which may extend compressor longevity
- Can replace R22 in most cases, without the need to change TX valves (Note: Larger valves may be needed in cases where the R22 valve is near maximum capacity)
- Recommended to change to POE (polyolester oil) for adequate oil return, although may be used with mineral oil or alkylbenzene
- Allows for continued use of existing equipment

#### THERMODYNAMIC PERFORMANCE

- R422D shows 90% capacity of R22, with similar efficiency
- Compared to other R22 retrofit alternatives R422D possesses a smaller glide.

# **PRODUCT PART NUMBERS**

- H422D012 12kg Cylinder
- H422D060 60kg Cylinder

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

This information is believed to be accurate and reliable, but is provided as a guide only. Beijer Ref Holdings Australia Pty Ltd (T/A Beijer Ref Support) accepts no responsibility and the end user assumes all risks and liability for the use of this information.

## PRESSURE TEMPERATURE CHART

-44 $-25$ $-4$ $-42$ $-17$ 6 $-40$ $-8$ 16 $-38$ 227 $-36$ 1239 $-34$ 2352 $-32$ 3566 $-30$ 4881 $-28$ $62$ 96 $-26$ 77113 $-24$ 93130 $-22$ 110149 $-20$ 128169 $-18$ 147190 $-16$ 168213 $-14$ 189236 $-12$ 212261 $-10$ 237288 $-8$ 262315 $-6$ 290345 $-4$ 318376 $-2$ 3494080381442241447844505156487554852659510567638126106831465573016702779187518302080288322856939249129972697110572810321120301095118532116112523412301323361302139638137614714014541550	C°	R422D Dew (kPa)	R422D Bubble (kPa)
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-12 $212$ $261$ $-10$ $237$ $288$ $-8$ $262$ $315$ $-6$ $290$ $345$ $-4$ $318$ $376$ $-2$ $349$ $408$ $0$ $381$ $442$ $2$ $414$ $478$ $4$ $450$ $515$ $6$ $487$ $554$ $8$ $526$ $595$ $10$ $567$ $638$ $12$ $610$ $683$ $14$ $655$ $730$ $16$ $702$ $779$ $18$ $751$ $830$ $20$ $802$ $883$ $22$ $856$ $939$ $24$ $912$ $997$ $26$ $971$ $1057$ $28$ $1032$ $1120$ $30$ $1095$ $1185$ $32$ $1161$ $1252$ $34$ $1230$ $1323$ $36$ $1302$ $1396$ $38$ $1376$ $1471$ $40$ $1454$ $1550$	-14	189	236
-10 $237$ $288$ $-8$ $262$ $315$ $-6$ $290$ $345$ $-4$ $318$ $376$ $-2$ $349$ $408$ $0$ $381$ $442$ $2$ $414$ $478$ $4$ $450$ $515$ $6$ $487$ $554$ $8$ $526$ $595$ $10$ $567$ $638$ $12$ $610$ $683$ $14$ $655$ $730$ $16$ $702$ $779$ $18$ $751$ $830$ $20$ $802$ $883$ $22$ $856$ $939$ $24$ $912$ $997$ $26$ $971$ $1057$ $28$ $1032$ $1120$ $30$ $1095$ $1185$ $32$ $1161$ $1252$ $34$ $1230$ $1323$ $36$ $1302$ $1396$ $38$ $1376$ $1471$ $40$ $1454$ $1550$	-12	212	261
-8 $262$ $315$ $-6$ $290$ $345$ $-4$ $318$ $376$ $-2$ $349$ $408$ $0$ $381$ $442$ $2$ $414$ $478$ $4$ $450$ $515$ $6$ $487$ $554$ $8$ $526$ $595$ $10$ $567$ $638$ $12$ $610$ $683$ $14$ $655$ $730$ $16$ $702$ $779$ $18$ $751$ $830$ $20$ $802$ $883$ $22$ $856$ $939$ $24$ $912$ $997$ $26$ $971$ $1057$ $28$ $1032$ $1120$ $30$ $1095$ $1185$ $32$ $1161$ $1252$ $34$ $1230$ $1323$ $36$ $1302$ $1376$ $4471$ $40$ $1454$	-10	237	288
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-4 $318$ $376$ $-2$ $349$ $408$ 0 $381$ $442$ 2 $414$ $478$ 4 $450$ $515$ 6 $487$ $554$ 8 $526$ $595$ 10 $567$ $638$ 12 $610$ $683$ 14 $655$ $730$ 16 $702$ $779$ 18 $751$ $830$ 20 $802$ $883$ 22 $856$ $939$ 24 $912$ $997$ 26 $971$ $1057$ 28 $1032$ $1120$ 30 $1095$ $1185$ $32$ $1161$ $1252$ $34$ $1230$ $1323$ $36$ $1302$ $1396$ $38$ $1376$ $1471$ $40$ $1454$ $1550$	-6	290	345
-23494080381442241447844505156487554852659510567638126106831465573016702779187518302080288322856939249129972697110572810321120301095118532116112523412301323361302139638137614714014541550	-4	318	376
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44505156487554852659510567638126106831465573016702779187518302080288322856939249129972697110572810321120301095118532116112523412301323361302139638137614714014541550	2	414	478
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12   610   683     14   655   730     16   702   779     18   751   830     20   802   883     22   856   939     24   912   997     26   971   1057     28   1032   1120     30   1095   1185     32   1161   1252     34   1230   1323     36   1302   1396     38   1376   1471     40   1454   1550	10	567	638
14   655   730     16   702   779     18   751   830     20   802   883     22   856   939     24   912   997     26   971   1057     28   1032   1120     30   1095   1185     32   1161   1252     34   1230   1323     36   1302   1396     38   1376   1471     40   1454   1550	12	610	683
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18   751   830     20   802   883     22   856   939     24   912   997     26   971   1057     28   1032   1120     30   1095   1185     32   1161   1252     34   1230   1323     36   1302   1396     38   1376   1471     40   1454   1550	16	702	779
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24   912   997     26   971   1057     28   1032   1120     30   1095   1185     32   1161   1252     34   1230   1323     36   1302   1396     38   1376   1471     40   1454   1550	22	856	939
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36   1302   1396     38   1376   1471     40   1454   1550	.34	1230	1323
38   1376   1471     40   1454   1550	36	1302	1396
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46 1705 180Z	16	1705	1803
<u>48</u> 1705 1807	40	1705	180/
50 1888 1988	50	1888	1988

#### PHYSICAL PROPERTIES

Class/ Type	Zeotropic blend
Formula	65.1% R125/ 31.5% R134a/ 3.4% isobutane
Kind	HFC blend
Appearance	Colourless
ODP	0
GWP	2729
ASHRAE Std 34 Safety Class	A1

Units	<b>Physical Properties</b>
Molecular Weight	108 g/mol
Boiling Point	-43.2 °C
Critical Temperature	79.6 °C
Critical Pressure	38.17 bar
Critical Density	517.18 kg/m³
Liquid Viscosity at 25°C	0.155 µPa-sec
Molecular Weight	108 g/mol
Boiling Point	-43.2 °C
Critical Temperature	79.6 °C
Critical Pressure	38.17 bar
Critical Density	517.18 kg/m³
Liquid Viscosity at 25°C	0.155 µPa-sec

# **OUR SERVICES**











Gas2Go® Refrigerant Management

Gas2Go® Gas Doctor Analysis

Gas2Find™ Leak Detection

Gas2Go® Reclaim & Gas2Go® Pumpdown

#### YOUR LOCAL HVAC&R REFRIGERANT SPECIALIST





Available from all Kirby and Beijer Ref branches Australia wide







Access to

Nationwide

Technical Support



ARCtick Reporting

Beijer Ref Support

