

REFRIGERANT SOLUTIONS



A1 REFRIGERANT RETROFIT ALTERNATIVES FOR EXISTING EQUIPMENT

Replacements for
R22
ODP 0.55

R407C POE

Applications:

- Air Conditioning
- Medium Temp Refrigeration

GWP: 1774

R438A MIN POE

Applications:

- Air Conditioning
- Low & Medium Temp Refrigeration
- D.X Chillers

GWP: 2059

R422D MIN POE

Applications:

- Air Conditioning
- Low and Medium Temp Refrigeration
- D.X Chillers

GWP: 2729

Replacements for
R404A
GWP 3922

R448A POE LOW GWP

Applications:

- Low and Medium Temp Refrigeration
- Commercial and Industrial Refrigeration

GWP: 1273

R449A* POE LOW GWP

Applications:

- Low and Medium Temp Refrigeration
- Commercial and Industrial Refrigeration

GWP: 1397

R452A* POE

Applications:

- Transport Refrigeration
- Commercial and Industrial Refrigeration

GWP: 2140

Replacements for
R134a
GWP 1430

R450A* POE LOW GWP

Applications:

- Medium Temp Refrigeration
- Heat pumps
- Air & Water Cooled Chillers

GWP: 547

R513A* POE LOW GWP

Applications:

- Medium Temp Refrigeration
- Chillers
- Cascade Systems

GWP: 573

REFRIGERANT APPLICATION GUIDE

Refrigerant Type	Safety Class	GWP	Low Temp Refrigeration	Med Temp Refrigeration	Air Conditioning	Water Chiller
R1234ze*	A2L	<1				
R1234yf*	A2L	<1			(Automotive)	
R744 (CO ₂)	A1	1				
R1233zd*	A1	1				
R455A*	A2L	145				
R450A*	A1	547				
R513A*	A1	573				
R32	A2L	650				
R448A*	A1	1273				
R449A*	A1	1397				
R134a	A1	1430				
R407C	A1	1774				
R407F	A1	1824				
R410A	A1	1924				
R452A*	A1	2140				
R422D	A1	2729				(D.X)
R404A	A1	3922				
R507**	A1	3985				
R438A	A1	2059				(D.X)

Several ASHRAE designated products can be considered for retrofits, Beijer Ref recommends reading the retrofit guidelines of specific refrigerants and lubricants. All data should be confirmed with the compressor manufacturer before carrying out a retrofit. This is a guide only; check with the manufacturer and Beijer Ref for further details before retrofitting with a new refrigerant. Safety class information: A1-Non Flammable A2L-Mildly Flammable.

*Check with your local Kirby or Beijer Ref Australia branch for stock availability and release dates.

**Beijer Ref recommends using alternatives with a lower GWP where suitable and with due consideration to all local standards that apply to each refrigerant.

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