

GUIDE TO REFRIGERANT REPLACEMENTS

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PREVIOUS / PHASING OUT (ODP)

R502
R22/115
(50/50%)

CFC BANNED

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 4657
CFC

R408A
GWP 3152
OR
R402A
GWP 2788
R402B
GWP 2416
R403B
GWP 4457

APPLICATION
Low Temp Refrig
Med Temp Refrig

HCFC

A-GAS
R22

OIL
Mineral
Alkylbenzene
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig
Air Conditioning

GWP 1810
HCFC

R12

CFC BANNED

APPLICATION
Auto Air Cond
Med Temp Refrig
High Temp Refrig

GWP 10900
CFC

R409A
GWP 1943
OR
R406A
GWP 1585

APPLICATION
Low Temp Refrig
Med Temp Refrig

HCFC

R13
OR
R503
R23/13

CFC BANNED

APPLICATION
Ultra Low Temp
Refrigeration

CFC

A-GAS
R123

OIL
Mineral
Alkylbenzene

APPLICATION
Centrifugal
Chillers

GWP 120
HCFC

R11

CFC BANNED

APPLICATION
Centrifugal
Chillers

GWP 4750
CFC

A-GAS
R123

OIL
Mineral
Alkylbenzene

APPLICATION
Centrifugal
Chillers

GWP 120
HCFC

REFRIGERANT REPLACEMENT (ZERO ODP)

A-GAS
R422A
ISCEON® M079

OIL
Mineral**
Alkylbenzene
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 3143
HFC

A-GAS
R404A
(FX70/HP62)
R125/143a/134a
(44/52/4%)

OIL
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 3922
HFC

A-GAS
R507
(AZ50)
R125/143a
(50/50%)

OIL
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 3985
HFC

A-GAS
R417A
ISCEON® M059

OIL
Mineral**
Alkylbenzene
Polyol Ester

APPLICATION
Med Temp Refrig
Air Conditioning

GWP 2346
HFC

A-GAS
R422D
ISCEON® M029

OIL
Mineral
Alkylbenzene
Polyol Ester

APPLICATION
Med Temp Refrig
Air Conditioning
Water Chillers

GWP 2729
HFC

A-GAS
R424A
RS44

OIL
Mineral
Alkylbenzene
Polyol Ester

APPLICATION
Med Temp Refrig
Air Conditioning

GWP 2440
HFC

A-GAS
R434A*
RS45

OIL
Mineral
Alkylbenzene
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig
Water Chillers

GWP 3245
HFC

A-GAS
R437A
ISCEON®
M049Plus™

OIL
Mineral**
Alkylbenzene
Polyol Ester

APPLICATION
Auto Air Cond
Med Temp Refrig

GWP 1805
HFC

A-GAS
R134a

OIL
Polyol Ester
Polyalkylene-
Glycol

APPLICATION
Med Temp Refrig
Air Conditioning
Auto Air Cond

GWP 1430
HFC

A-GAS
ISCEON® M089

OIL
Mineral
Alkylbenzene
Polyol Ester

APPLICATION
Ultra Low Temp
Refrigeration

GWP 3698
HFC



There is no single product that can replace R22 in all applications.

If you need help on any particular application, please contact us.

* Not suitable for systems with capillary tube, expansion valve only.

** 50/50 mix of Mineral/Alkylbenzene preferred.

'Drop in' is a generic term; refrigerants should never be mixed or dropped in on top of an existing refrigerant.

HFC Drop in replacements in most cases do not require a change of lubricant type, however manufacturers' guidance as well as good engineering practice should be followed.

All information supplied is for guide purposes only.

Please note: Not all products are available in all outlets.

LONG-TERM REPLACEMENT

A-GAS
R290
Refrigerant
Grade Propane

OIL
Mineral

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 3
HC

A-GAS
R1270
Propylene

OIL
Mineral

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 2
HC

A-GAS
R407A
Klea60

OIL
Polyol Ester

APPLICATION
Med Temp Refrig

GWP 2107
HFC

A-GAS
R407F
GENETRON®
PERFORMAX™ LT

OIL
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 1824
HFC

A-GAS
R407F
GENETRON®
PERFORMAX™ LT

OIL
Polyol Ester

APPLICATION
Low Temp Refrig
Med Temp Refrig

GWP 1824
HFC

A-GAS
R744
Carbon Dioxide

OIL
Mineral

APPLICATION
Various

GWP 1
CO2

A-GAS
R407C
(Klea 66/
Suva 9000)
R32/125/134a
(23/25/52%)

OIL
Polyol Ester

APPLICATION
Air Conditioning

GWP 1774
HFC

A-GAS
R410A
(AZ20)
R32/125
(50/50%)

OIL
Polyol Ester

APPLICATION
Air Conditioning

GWP 2088
HFC

A-GAS
HFO
1234ze

OIL
Polyol Ester

APPLICATION
Med Temp Refrig
Water Chillers

GWP 6
HFO

A-GAS
HFO
1234yf

OIL
Polyol Ester
Polyalkylene-
Glycol

APPLICATION
Auto Air Cond

GWP 4
HFO

A-GAS
R600a
ISO Butane

OIL
Mineral
Alkylbenzene

APPLICATION
Domestic Refrig

GWP 3
HC

A-GAS
R23

OIL
Polyol Ester

APPLICATION
Ultra Low Temp
Refrigeration

GWP 14800
HFC

A-GAS
R508A
R23/116
(39/61%)

OIL
Polyol Ester

APPLICATION
Ultra Low Temp
Refrigeration

GWP 13214
HFC

A-GAS
R508B
Suva 95

OIL
Polyol Ester

APPLICATION
Ultra Low Temp
Refrigeration

GWP 13396
HFC

A-GAS
HFO
1234ze

OIL
Polyol Ester

APPLICATION
Med Temp Refrig
Water Chillers

GWP 6
HFO

SA EDITION 01/09/2014