

PHASING OUT (ODP)

HCFC

A-GAS
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

A-GAS
R409A
GWP 1943
OR
R406A
GWP 1585
APPLICATION
Low Temp Refrig
Med Temp Refrig
HCFC

A-GAS
R123
OIL
Mineral
Alkylbenzene
APPLICATION
Centrifugal
Chillers
GWP 77
HCFC

INTERIM REPLACEMENT (ZERO ODP)

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
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 1825
HFC

A-GAS
R417A
ISCEON® M059
OIL
Mineral**
Alkylbenzene
Polyol Ester
APPLICATION
Med Temp Refrig
High Temp Refrig
Air Conditioning
GWP 2346
HFC

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

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

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

A-GAS
R134a
OIL
Polyol Ester
Polyalkylene-Glycol
APPLICATION
Med Temp Refrig
Air Conditioning
Auto Air Cond
GWP 1430
HFC

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
R407F
GENETRON®
PERFORMAX™ LT
OIL
Polyol Ester
APPLICATION
Low Temp Refrig
Med Temp Refrig
GWP 1825
HFC

A-GAS
R23
ISCEON® M089
OIL
Mineral
Alkylbenzene
Polyol Ester
APPLICATION
Ultra Low Temp
Refrigeration
GWP 3805
HFC

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



LONG-TERM REPLACEMENT

HFO / HFC / HC & NR

All information supplied is for guide purposes only.

A-GAS
R290
Refrigerant
Grade Propane
OIL
Mineral
APPLICATION
Low Temp Refrig
Med Temp Refrig
Flammable
GWP 3
HC

A-GAS
R1270
Propylene
OIL
Mineral
APPLICATION
Low Temp Refrig
Med Temp Refrig
Flammable
GWP 2
HC

A-GAS
R452A
OPTEON™ XP44
OIL
Polyol Ester
APPLICATION
Low Temp Refrig
Med Temp Refrig
Truck Refrig
GWP 2140
HFC/HFO

A-GAS
R454A
OPTEON™ XL40
OIL
Polyol Ester
APPLICATION
Low Temp Refrig
Med Temp Refrig
GWP 246
HFO Blend

A-GAS
R448A
SOLSTICE® N40
OIL
Polyol Ester
APPLICATION
Low Temp Refrig
Med Temp Refrig
GWP 1387
HFC/HFO

A-GAS
R449A
OPTEON™ XP40
OIL
Polyol Ester
APPLICATION
Low Temp Refrig
Med Temp Refrig
GWP 1397
HFC/HFO

A-GAS
R744
Carbon Dioxide
OIL
Mineral
APPLICATION
Various
GWP 1
CO2

A-GAS
R600a
ISO Butane
OIL
Mineral
Alkylbenzene
APPLICATION
Domestic Refrig
Flammable
GWP 3
HC

A-GAS
HFO
1234ze
OIL
Polyol Ester
APPLICATION
Med Temp Refrig
Water Chillers
GWP 1
HFO

A-GAS
HFO
1234yf
OIL
Polyol Ester
Polyalkylene-Glycol
APPLICATION
Auto Air Cond
Mildly Flammable
GWP 1
HFO

A-GAS
R450A
SOLSTICE® N13
OIL
Polyol Ester
APPLICATION
Med Temp Refrig
High Temp Refrig
GWP 604
HFO Blend

A-GAS
R453A
R570
OIL
Mineral
Alkylbenzene
Polyol Ester
APPLICATION
Med Temp Refrig
High Temp Refrig
GWP 1765
HFC

A-GAS
R513A
OPTEON™ XP10
OIL
Polyol Ester
APPLICATION
Med Temp Refrig
High Temp Refrig
GWP 631
HFO Blend

A-GAS
R32
OIL
Polyol Ester
APPLICATION
Air Conditioning
Flammable
GWP 675
HFC

Refrigerants



Industrial Special Products



Environmental Services

Fire Protection



Performance Chemicals

A-GAS
R170
Ethane
OIL
Polyol Ester
APPLICATION
Ultra Low Temp
Refrigeration
Flammable
GWP 6
HC

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A-GAS
HFO
1234ze
OIL
Polyol Ester
APPLICATION
Med Temp Refrig
Water Chillers
GWP 1
HFO

A-GAS
HFO
1233zd
SOLSTICE® ZD
OIL
Polyol Ester
APPLICATION
Centrifugal
Chillers
GWP 1
HFO