

### TRADITIONAL

**R502**  
R22/115  
(50/50%)

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**CFC**

**A-GAS™**  
**R22**

OIL  
Mineral  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig  
Air Conditioning

**HFC**

**R12**

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Auto Air Cond  
Med Temp Refrig  
High Temp Refrig

**CFC**

**R13**

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Ultra Low Temp  
Refrigeration

**CFC**

**R503**  
R23/13  
(40/60%)

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Ultra Low Temp  
Refrigeration

**CFC**

**R11**

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Centrifugal  
Chillers

**CFC**



### INTERIM / DROP IN REPLACEMENT

**R402A**  
(HP80)  
R125/290/22  
(60/2/38%)

OIL  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HCFC**

**R402B**  
(HP81)  
R125/290/22  
(38/2/60%)

OIL  
Alkylbenzene  
Polyol Ester

APPLICATION  
Ice Machine

**HCFC**

**R403B**  
ISCEON® 69L  
R290/22/218  
(5/56/39%)

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HCFC**

**A-GAS™**  
**R408A**  
(FX10)  
R125/143a/22  
(7/46/47%)

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HCFC**

**A-GAS™**  
**R422A**  
ISCEON® M079

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HFC**

**A-GAS™**  
**R417A**  
ISCEON® M059

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Med Temp Refrig  
Air Conditioning

**HFC**

**A-GAS™**  
**R422D**  
ISCEON® M029

OIL  
Mineral  
Alkylbenzene  
Polyol Ester

APPLICATION  
Med Temp Refrig  
Air Conditioning  
Water Chillers

**HFC**

**A-GAS™**  
**R424A**  
RS44

OIL  
Mineral  
Alkylbenzene  
Polyol Ester

APPLICATION  
Med Temp Refrig  
Air Conditioning

**HFC**

**A-GAS™**  
**R434A\***  
RS45

OIL  
Mineral  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig  
Water Chillers

**HFC**

**A-GAS™**  
**R409A**  
(FX56)  
R22/124/142b  
(60/25/15%)

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HCFC**

**A-GAS™**  
**R406A**  
(GHG 12)  
R22/142b/600a  
(55/41/4%)

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HCFC**

**A-GAS™**  
ISCEON® M089

OIL  
Mineral  
Alkylbenzene  
Polyol Ester

APPLICATION  
Ultra Low Temp  
Refrigeration

**HFC**

**A-GAS™**  
**R123**

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Centrifugal  
Chillers

**HCFC**

\* 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™**  
**R404A**  
(FX70/HP62)  
R125/143a/134a  
(44/52/4%)

OIL  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HFC**

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

OIL  
Polyol Ester

APPLICATION  
Low Temp Refrig  
Med Temp Refrig

**HFC**

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

OIL  
Polyol Ester

APPLICATION  
Air Conditioning

**HFC**

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

OIL  
Polyol Ester

APPLICATION  
Air Conditioning

**HFC**

**A-GAS™**  
**R437A**  
ISCEON®  
M049Plus™

OIL  
Mineral\*\*  
Alkylbenzene  
Polyol Ester

APPLICATION  
Auto Air Cond  
Med Temp Refrig

**HFC**

**A-GAS™**  
**R134a**

OIL  
Polyol Ester  
Polyalkylene-  
Glycol

APPLICATION  
Med Temp Refrig  
Air Conditioning  
Auto Air Cond

**HFC**

**A-GAS™**  
**R600a**  
ISO Butane

OIL  
Mineral  
Alkylbenzene

APPLICATION  
Domestic Refrig

**HC**

**A-GAS™**  
**R23**

OIL  
Polyol Ester

APPLICATION  
Ultra Low Temp  
Refrigeration

**HFC**

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

OIL  
Polyol Ester

APPLICATION  
Ultra Low Temp  
Refrigeration

**HFC**

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

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

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