

# A-GAS®

## Opteon™ XP 44 Properties and Applications

Opteon™ XP44 (R-452A) is a non-ozone depleting, low global warming potential (GWP) hydrofluoro-olefin (HFO) based refrigerant to replace R-404A/R-507A in low and medium temperature commercial, industrial, and transport refrigeration applications.

Opteon™ XP44 is suitable in new equipment, as well as for retrofit of existing systems, offering comparable energy efficiency with improved environmental properties, but without increased compressor discharge temperatures.

### Physical Properties

- ✓ ASHRAE A1 classification
- ✓ Critical temperature 74.9°C
- ✓ Molecular weight is 103.5 g/mol
- ✓ Boiling point at one atmosphere -47°C
- ✓ GWP of 2140

### Applications

- ✓ Low and medium temperature transport DX refrigeration - refrigerated trucks, vans, reefer containers
- ✓ Low and medium temperature commercial and industrial DX refrigeration

### Usage Instructions

- ✓ XP44 can be used in new equipment/retrofit of existing systems
- ✓ Compatible with existing equipment design/lubricants
- ✓ Always recover XP44 into a reclaim cylinder
- ✓ Matches discharge temperature and mass flow rate of R404A and R507

PT Chart

Temp ° C	Liquid Pressure KPa	Vapour Pressure KPa
-26	155.1	117.3
-22	198.0	155.0
-18	246.3	197.7
-14	300.3	245.7
-10	360.4	299.3
-6	427.1	359.1
-2	500.8	425.6
0	540.4	461.4
2	581.9	499.1
6	670.9	580.1
10	768.3	669.3
14	874.4	767.0
18	989.9	873.9
22	1115.2	990.5
26	1250.8	1117.4
30	1397.2	1255.3
34	1554.8	1404.8
38	1724.4	1566.8
42	1906.3	1741.8
46	2101.2	1930.9

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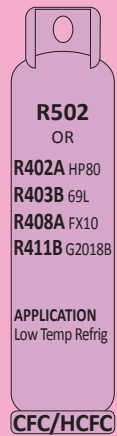
info.au@agas.com  
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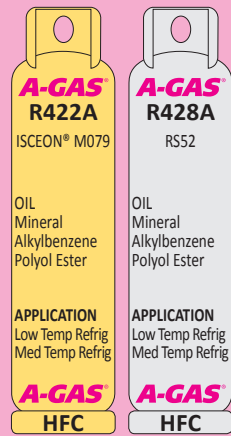
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# A-GAS® GUIDE TO REFRIGERANT REPLACEMENTS

## PREVIOUS REFRIGERANT

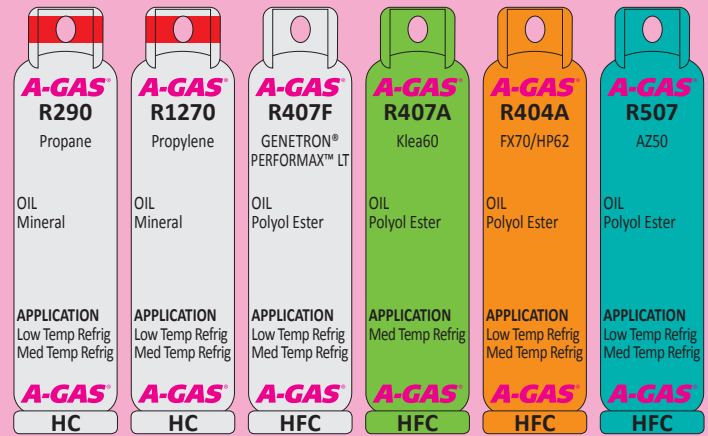


## REFRIGERANT REPLACEMENT (ZERO ODP)

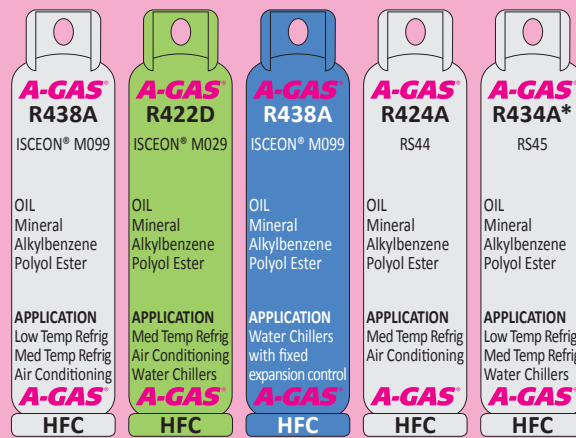
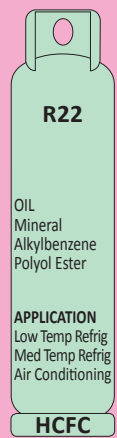


\* Not suitable for systems with capillary tube, expansion valve only.

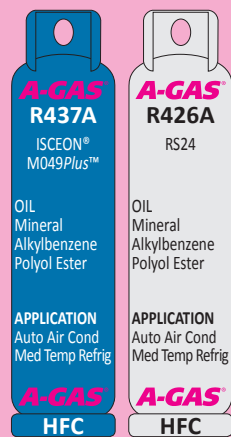
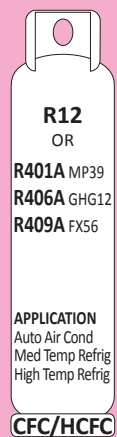
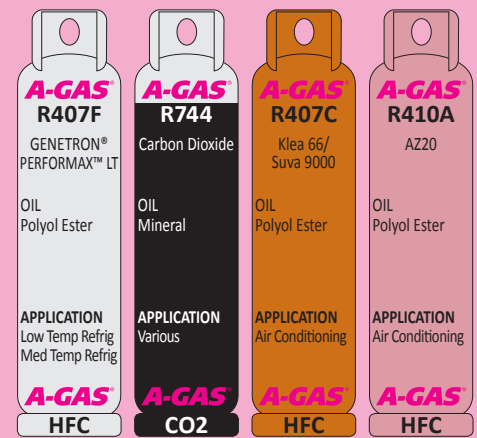
## LONG-TERM REPLACEMENT



## REFRIGERANT REPLACEMENT (ZERO ODP)



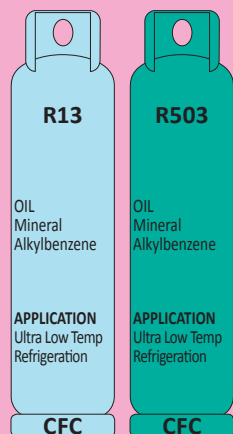
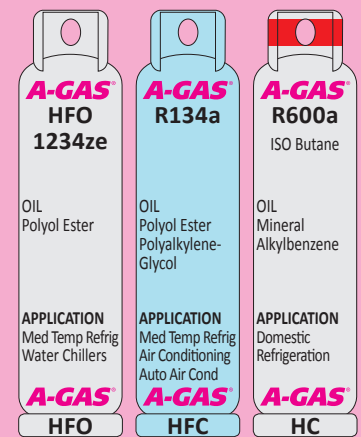
## LONG-TERM REPLACEMENT



There is no single product that can replace R22 in all applications. If you need help on any particular application, please contact us.

Replacement refrigerants 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.



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