

A-GAS®

Opteon™ XP 40 Properties and Applications

Opteon™ XP40 (R-449A) is a non-ozone depleting, low global warming potential (GWP) hydrofluoro-olefin (HFO) based refrigerant with an optimal balance of properties to replace R-404A/R-507, R-22, or R-407 series in low and medium temperature commercial and industrial applications.

Opteon™ XP40 is suitable for new installations, as well as for retrofit of existing systems, offering improved energy efficiency and environmental properties.

Physical Properties

- ✓ ASHRAE A1 classification
- ✓ Critical temperature 81.5°C
- ✓ Molecular weight is 87.2 g/mol
- ✓ Boiling point at one atmosphere -46.0°C
- ✓ GWP of 1397

Applications

- ✓ Supermarkets -centralized rack systems, distributed systems, walk-in coolers
- ✓ Food service (e.g. condensing units)
- ✓ Cold Storage

Usage Instructions

- ✓ XP40 can be used in new equipment/retrofit of existing systems
- ✓ Compatible with existing equipment design/lubricants
- ✓ Always recover XP40 into a A-Gas reclaim cylinder

PT Chart

Temp °C	Liquid Pressure KPa	Vapour Pressure KPa
-26	143.6	91.2
-22	184.9	125.9
-18	231.4	165.4
-14	283.5	210.1
-10	341.6	260.2
-6	406.1	316.4
-2	477.5	379.1
0	515.9	413.0
2	556.3	448.7
6	642.8	525.7
10	737.6	610.7
14	841.1	704.2
18	953.8	806.7
22	1076.3	918.8
26	1208.9	1041.2
30	1352.3	1174.4
34	1507.0	1319.1
38	1673.5	1476.0
42	1852.3	1645.9
46	2044.0	1829.7

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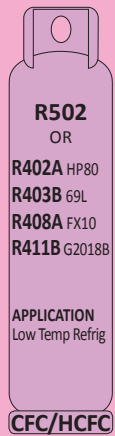
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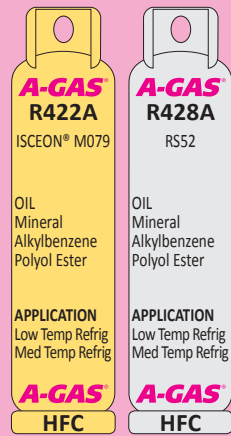
Convenient • Simple • Transparent

A-GAS[®] GUIDE TO REFRIGERANT REPLACEMENTS

PREVIOUS REFRIGERANT

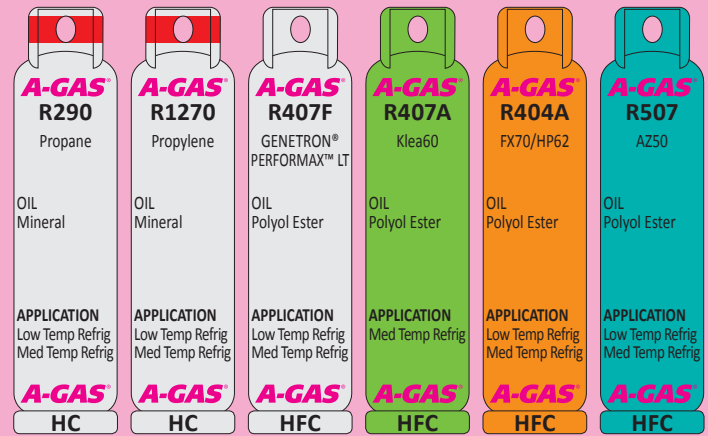


REFRIGERANT REPLACEMENT (ZERO ODP)

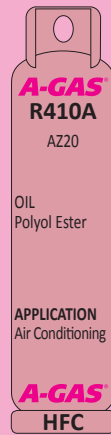
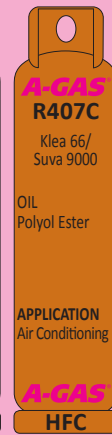
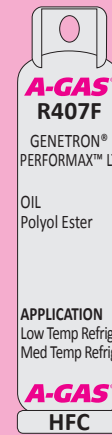


* Not suitable for systems with capillary tube, expansion valve only.

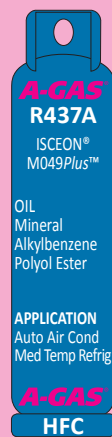
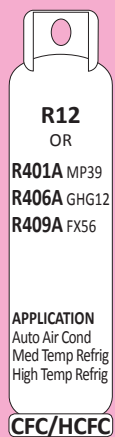
LONG-TERM REPLACEMENT



REFRIGERANT REPLACEMENT (ZERO ODP)



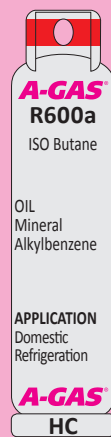
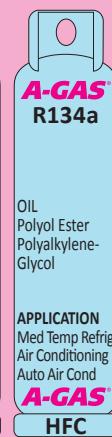
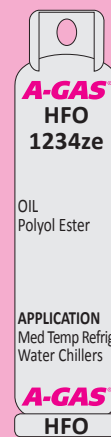
LONG-TERM REPLACEMENT



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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