

A-GAS®

Opteon™ XP 10 Properties and Applications

Opteon™ XP10 (R-513A) is a non-ozone depleting, low global warming potential (GWP) hydrofluoro-olefin (HFO) based refrigerant developed to replace R-134a in medium-temperature commercial and industrial application, including centrifugal chillers.

Opteon™ XP10 is an excellent capacity and efficiency match for R-134a in new systems, as well as for retrofit of existing systems, offering an optimal balance of properties including high energy efficiency and environmental sustainability.

Physical Properties

- ✓ ASHRAE A1 classification
- ✓ Critical temperature 96.5°C
- ✓ Molecular weight is 108.4 g/mol
- ✓ Boiling point at one atmosphere -29.2°C
- ✓ GWP of 631

Applications

- ✓ Water chillers, air conditioning and heat pumps
- ✓ Medium temperature commercial and industrial DX refrigeration
- ✓ Cascade systems (especially alongside R744)

Usage Instructions

- ✓ XP10 can be used in new equipment/retrofit of existing systems
- ✓ Compatible with existing equipment design/lubricants
- ✓ Close performance match to R134a for retrofit and new systems
- ✓ Always recover XP10 into a A-Gas reclaim cylinder

PT Chart

Temp °C	Liquid Pressure KPa	Vapour Pressure KPa
-26	16.9	16.4
-22	38.7	38.3
-18	63.7	63.2
-14	92.0	91.6
-10	124.0	123.6
-6	159.9	159.6
-2	200.1	199.8
0	221.9	221.7
2	244.9	244.7
6	294.7	294.5
10	349.8	349.7
14	410.5	410.4
18	477.2	477.2
22	550.3	550.3
26	630.1	630.1
30	717.1	717.1
34	811.7	811.7
38	914.2	914.2
42	1025.2	1025.1
46	1145.0	1144.8

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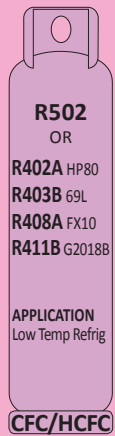
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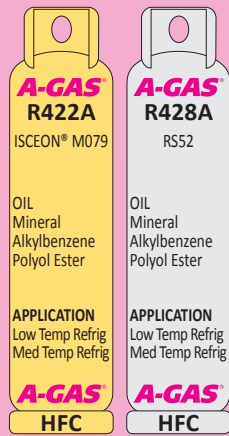
Convenient • Simple • Transparent

A-GAS[®] GUIDE TO REFRIGERANT REPLACEMENTS

PREVIOUS REFRIGERANT

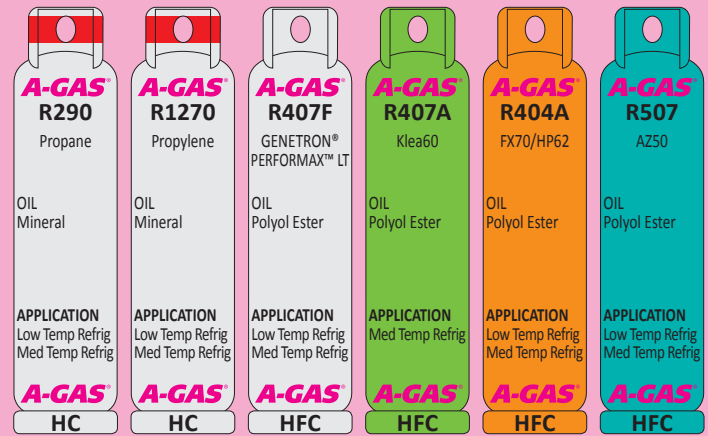


REFRIGERANT REPLACEMENT (ZERO ODP)

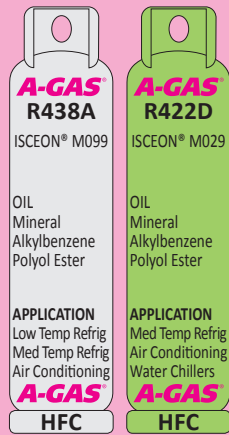


* Not suitable for systems with capillary tube, expansion valve only.

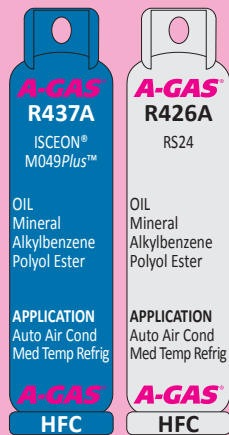
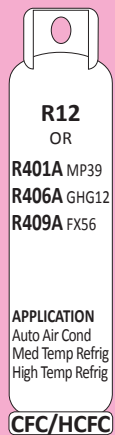
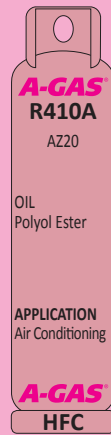
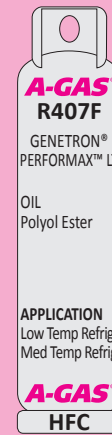
LONG-TERM REPLACEMENT



REFRIGERANT REPLACEMENT (ZERO ODP)



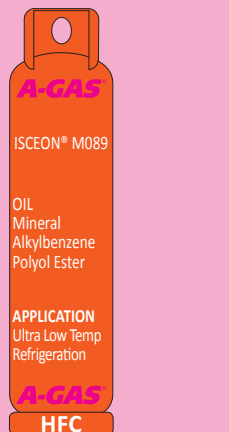
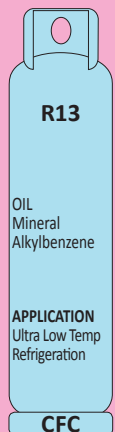
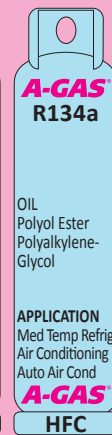
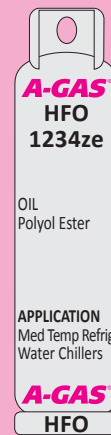
LONG-TERM REPLACEMENT



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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