

A-GAS®



Pack Sizes

7KG cylinder
12KG cylinder
22KG cylinder
65KG cylinder

R134a Properties and Applications

R134a is an HFC refrigerant used on its own as a pure refrigerant and also as a component in many blends. It is widely used in automotive air conditioning and medium temperature refrigeration in applications where R12 would have previously been used.

Physical Properties

- ✓ ASHRAE A1 safety classification
- ✓ Non Flammable & safe to use
- ✓ Zero ODP
- ✓ GWP of 1300 (IPCC assessment report 2)
- ✓ Chemical name - 1,1,1,2 Tetrafluoroethane
- ✓ Molecular weight is 102.3
- ✓ Boiling point at 1 ATM is -26.1°C
- ✓ Critical Temperature is 101.1 °C

Applications

- ✓ Automotive air conditioning systems
- ✓ Heat pumps, chillers
- ✓ Transport refrigeration, commercial cooling

Usage Instructions

- ✓ Compatible with POE and PAG lubricants
- ✓ Charging can be carried out either in vapour or liquid phase

R134a cannot be discharged to atmosphere.
Always recover refrigerants into an A-Gas reclaim cylinder

PT Chart

Temp °C	Pressure KPa
-38	-44.508
-34	-31.813
-30	-16.947
-26	0.34267
-22	20.323
-18	43.275
-14	69.492
-10	99.278
-6	132.95
-2	170.84
0	191.48
2	213.29
6	260.65
10	313.28
14	371.55
18	435.85
22	506.57
26	584.1
30	668.87
34	761.3
38	861.83

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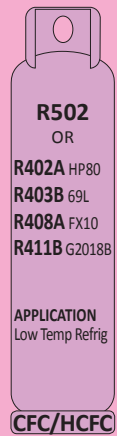
A-Gas AU11734



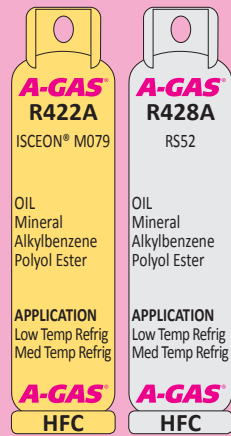
Convenient • Simple • Transparent

A-GAS® GUIDE TO REFRIGERANT REPLACEMENTS

PREVIOUS REFRIGERANT

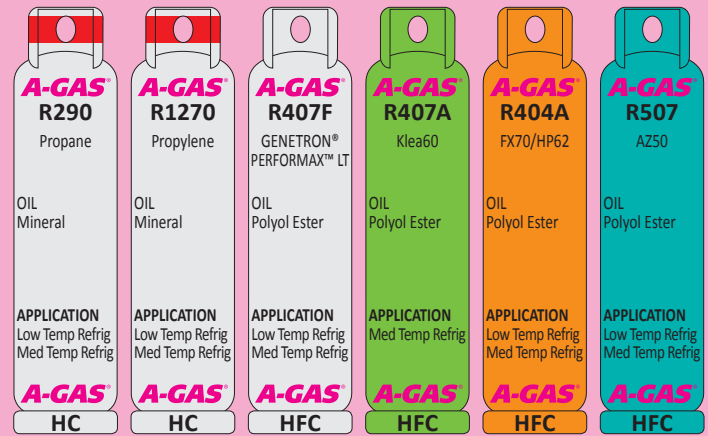


REFRIGERANT REPLACEMENT (ZERO ODP)

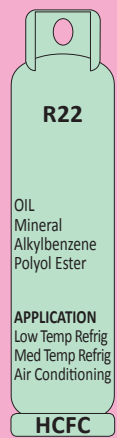


* Not suitable for systems with capillary tube, expansion valve only.

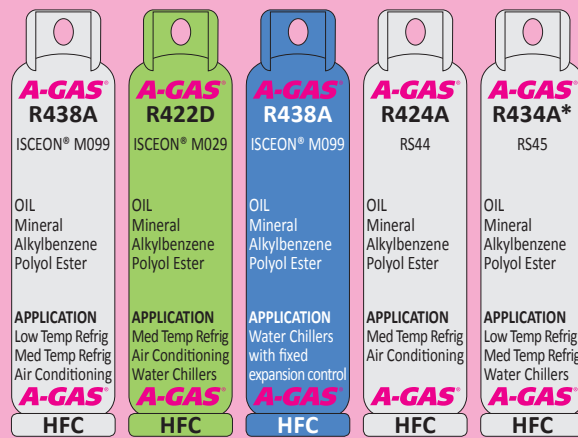
LONG-TERM REPLACEMENT



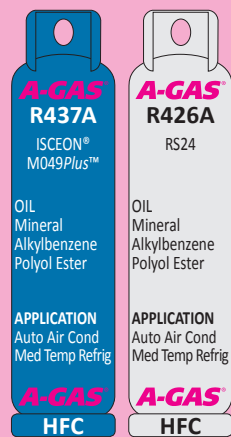
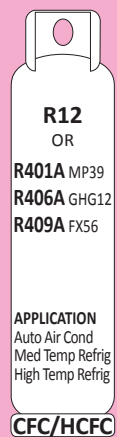
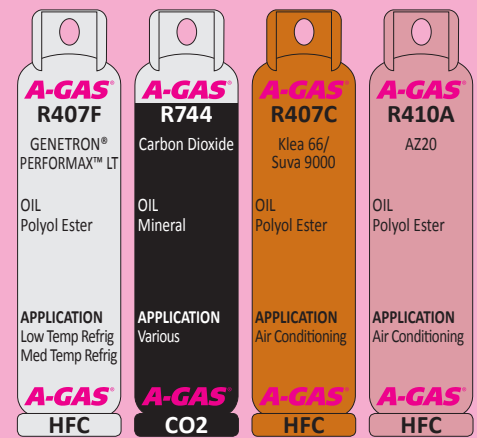
PREVIOUS



REFRIGERANT REPLACEMENT (ZERO ODP)



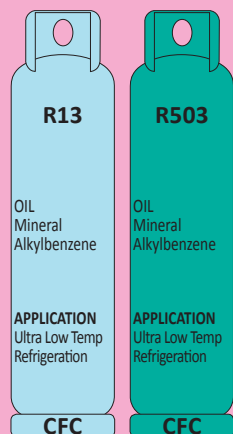
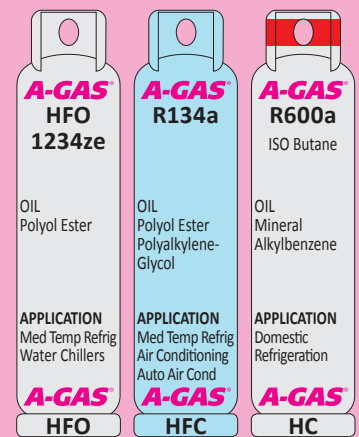
LONG-TERM REPLACEMENT



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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Speciality Chemicals
and Gases

