



R32

Properties and Applications

R32 refers to Difluoromethane, a flammable HFC refrigerant that has been used extensively as a component of 400 series blends but not on its own until recently. R32 is now being used by air conditioning OEMs as a low GWP HFC alternative to R410A.

Physical Properties

- ASHRAE A2L classification
- Mildly flammable
- Zero ODP
- Molecular weight is 52.02
- Boiling point at 1 ATM is -51.65 °C
- Critical Temperature is 78.1 °C
- GWP of 771 (IPCC Assessment Report 6)

Usage Instructions

- R32 cannot be used as a 'drop-in' replacement for R410A in existing systems
- Charging can be done in liquid or vapour phase
- Do not discharge R32 into the atmosphere
- Always recover R32 into a special R32 reclaim cylinder

Applications



COMMERCIAL REFRIGERATION



DOMESTIC AIRCONDITIONING



Liquid Temperature		R32
°C	kPa	
-48	20	
-46	33	
-44	46	
-42	61	
-40	76	
-38	93	
-36	111	
-34	130	
-32	150	
-30	172	
-28	195	
-26	220	
-24	247	
-22	275	
-20	304	
-18	336	
-16	369	
-14	405	
-12	442	
-10	481	
-8	523	
-6	567	
-4	613	
-2	661	
0	712	
2	765	
4	821	
6	880	
8	941	
10	1006	
12	1073	
14	1143	
16	1217	
18	1293	
20	1373	
22	1457	
24	1544	
26	1634	
28	1728	
30	1826	
32	1928	
34	2034	

Stock Code: RGA0045V

New R32 650gram disposable cannister, including valve, now available from A-Gas