Fluorinated Refrigerants

R-134a

R-134a: High-Safety Refrigerant for Multiple Applications

R-134a (1,1,1,2-tetrafluoroethane) it is an A1 pure and vesatile refrigerant gas for high and medium temperatures applications. Mainly used as a R-12 replacement in new installations.

IUPAC Name:	ASHRAE Name:
1,1,1,2 - tetrafluoroethane	R-134a

Technical specifications:

0	1430	A1	POE
ODP	GWP	Safety classification	Compatible lubricants

Temperature Range: High and Medium

Replacement:
R-12 in New Equipment

Type of replacement:
Replacement (New Equipment)

Applications:

- Commercial (Preservation)
- A/C Automotive
- Chillers
- Industrial Refrigeration
- Refrigerated Transport

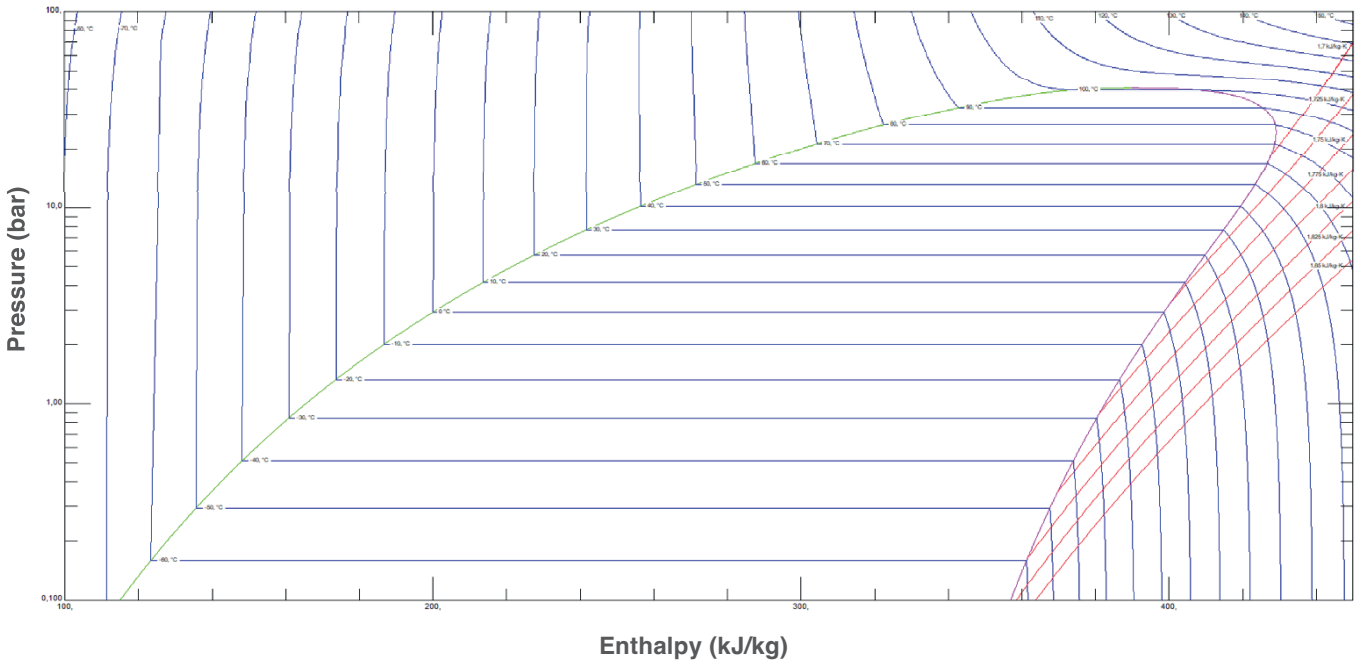
Packaging sizes for R-134a:

- Cylinders
- Roll Drums
- ISO Tanks

Thermodinamic properties chart:

Temperature (ºC)	Absolute pressure (bar)	Liquid density (kg/l)	Gas density (kg/l)	Liquid enthalpy (kJ/kg)	Gas enthalpy (kJ/kg)
-50	0,2945	1,4463	0,0016496	135,67	367,65
-45	0,39117	1,4321	0,0021518	141,89	370,83
-40	0,51209	1,4177	0,0027695	148,14	374
-35	0,66144	1,4031	0,0035209	154,44	377,17
-30	0,84378	1,3884	0,0044259	160,79	380,32
-25	1,064	1,3734	0,0055059	167,19	383,45
-20	1,3273	1,3583	0,0067845	173,64	386,55
-15	1,6394	1,3428	0,008287	180,14	389,63
-10	2,006	1,3271	0,010041	186,7	392,66
-5	2,4334	1,3111	0,012077	193,32	395,66
0	2,928	1,2948	0,014428	200	398,6
5	3,4966	1,2781	0,017131	206,75	401,49
10	4,1461	1,261	0,020226	213,58	404,32
15	4,8837	1,2434	0,023758	220,48	407,07
20	5,7171	1,2253	0,02778	227,47	409,75
25	6,6538	1,2067	0,03235	234,55	412,33
30	7,702	1,1875	0,037535	241,72	414,82
35	8,8698	1,1675	0,043416	249,01	417,19
40	10,166	1,1467	0,050085	256,41	419,43
45	11,599	1,1251	0,057657	263,94	421,52
50	13,179	1,1023	0,066272	271,62	423,44

Pressure diagram chart:



Normative:

GRIT (Gases Research Innovation & Technology) is committed to the continuous improvement of our inbuilt Quality Control, Environment and Major Accident Prevention Systems as well as close collaboration with our product and service providers. The scope of the system includes the packaging, commercialisation, storage and innovation of technical gases and the management of residual fluorinated gas and halogenated solvents.

All this work is reflected in our certificates ISO 9001 & ISO 14001. GRIT also meets AHRI 700 standard for new and recycled refrigerants.

More information:

If you want more information about our products, contact us.

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