Fluorinated Refrigerants

R-32

R-32: A2L Refrigerant for Air Conditioning Applications

R-32 (Difluoromethane) is a pure HFC refrigerant with a relatively low global warming potential. It has a high cooling capacity at low temperatures and great thermodynamic efficiency. As an A2L medium-safe refrigerant dlightly-flammable, the safety regulation for its loading in equipment must be followed. Also, it is the most used refrigerant in new air conditioning equipment.

IUPAC Name:	ASHRAE Name:
Difluoromethane	R-32

Technical specifications:

0	675	A2L	POE
ODP	GWP	Safety classification	Compatible lubricants

Temperature Range: High, Medium and Low

Replacement:
R-410A only in New Equipment

Type of replacement:
Replacement (New Equipment)

Applications:

- A/C Air Conditioning / Climatization
- Industrial Refrigeration
- Commercial Refrigeration

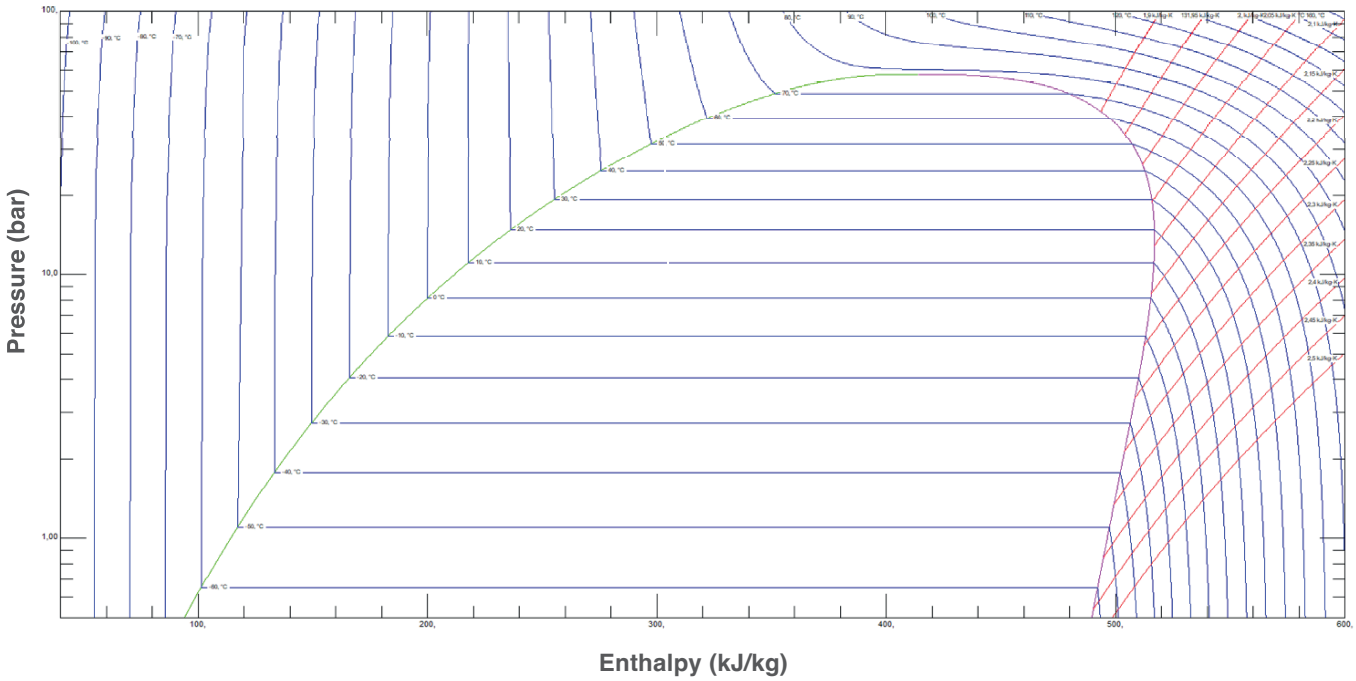
Packaging sizes for R-32:

- 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)
-70	0,36067	1,2624	0,0011354	85,656	486,57
-65	0,48798	1,2491	0,0015065	93,504	489,38
-60	0,64955	1,2357	0,001969	101,38	492,11
-55	0,85172	1,2221	0,0025384	109,28	494,74
-50	1,1014	1,2084	0,0032316	117,22	497,27
-45	1,4062	1,1944	0,0040671	125,2	499,7
-40	1,7741	1,1802	0,0050651	133,23	502,02
-35	2,2138	1,1657	0,0062476	141,31	504,21
-30	2,7344	1,151	0,0076389	149,45	506,27
-25	3,3456	1,1359	0,0092657	157,66	508,2
-20	4,0575	1,1206	0,011157	165,94	509,97
-15	4,8807	1,1049	0,013346	174,31	511,58
-10	5,8263	1,0888	0,01587	182,76	513,02
-5	6,9058	1,0722	0,018769	191,33	514,26
0	8,131	1,0553	0,022091	200	515,3
5	9,5145	1,0377	0,025891	208,8	516,11
10	11,069	1,0197	0,030232	217,74	516,66
15	12,808	1,0009	0,03519	226,84	516,93
20	14,746	0,98138	0,040856	236,12	516,9
25	16,896	0,96101	0,047339	245,6	516,51
30	19,275	0,93962	0,054776	255,32	515,72
35	21,898	0,91705	0,063343	265,3	514,48
40	24,783	0,89304	0,073268	275,61	512,71
45	27,948	0,86726	0,084859	286,31	510,29
50	31,412	0,83926	0,09855	297,49	507,1

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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