

K-40

REFRIGERANT

HYDROCARBON BLEND REFRIGERANT

K-40 Refrigerant

K-40 Refrigerant is a drop-in hydrocarbon refrigerant for R22

Applications

Domestic air conditioning, Automotive Air Conditioning, Agricultural Air Conditioning, Refrigerators & Freezers

Replacing R22 in a system with K-40 Refrigerant

Replace drier if one is present in existing system

Component Changes Required

Drier	Replace
Thermostatic expansion valve	May require super heat adjustment or a change may be required depending on the system
System Charge	Charge with 30% of rated R22 charge

Product Description

Colourless gas	Non Corrosive
Non Irritating	Flammable

Suitable Compressor Lubricants for use with K-40 Refrigerant

- Mineral Oils (M)
- Poly Alpha Oletin (PAO)
- Polyalkylene Glycol (PAG)
- Poly Ester Oils (PEO)



Suitable Elastomeric Materials

Material	Recommendation
Neoprene	Suitable
Viton	Suitable
Nitrite Rubber	Many grades are Suitable
PTFE	Suitable
Nylon	Suitable

NOTE: Care should be taken on systems with Thin Wall Barrier Hose



Physical Properties

	K-40	HCFC 22
Boiling Point: °C	-42	-40.8
Molecular Weight:	44.10	86.45
Heat of Vaporization @ 0°C (kj/kg)	960	136.1 @ 21°C 311.4 @ 54°C
Stability:	Thermal:	Stable
	Chemical:	Stable
Errosive:	No	No
Flammability: (LFL & UFL, %)	2~10	NONE
Auto Ignition Point: °C	450	-
Toxicity:	No	YES
GWP: (Global Warming Potential)	3	1,700
ODP: (Ozone Depleting Potential)	0	0,05
Lubricant:	Mineral/PAG/PAO	Mineral

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