

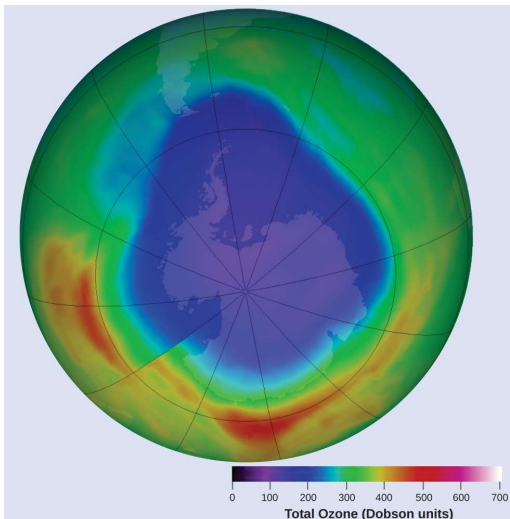
Comparison of Refrigerant Efficiency: Old Halons vs. Modern Refrigerants

An Overview of Refrigerants and Their Properties



To Summarise

Refrigerant	Type	ODP	GWP	Typical COP Range	Notes
Halons	CFC	High	High	N/A	Phased out due to ozone depletion
R22	HCFC	0.05	1810	2.5 - 3.5	Being phased out
R134a	HFC	0	1430	2.8 - 3.8	Common in automotive AC
R401C	HCFC Blend	0.03	~1100	2.7 - 3.7	R22 replacement blend
R32	HFC	0	675	3.0 - 4.0	Higher efficiency, lower GWP



ODP = Ozone Depletion Potential (the lower the better)
 GWP = Global Warming Potential (the lower the better)
 COP = Coefficient of Performance (the higher the better)

Key points:

1. Halons are not used anymore due to their high ODP and GWP.
2. R22 is being phased out, but was widely used.
3. R134a has no ODP, but still has a high GWP.
4. R401C is a blend created as a replacement for R22.
5. R32 has the lowest GWP of the modern refrigerants listed and tends to have higher efficiency.

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