

Copeland Accepted Refrigerants/Lubricants

	Refrigerants	Similar To	Application		Lubricant Choices			Comments	
			Retrofit	New	Preferred	Alternate #1	Alternate #2		
Ozone Depleting	CFC R-12		LM	LM	MIN	AB & MIN		Phased Out In 1996	
	CFC R-502		LM	LM	MIN	AB & MIN	POE	Phased Out In 1996	
	HCFC R-22		LMH	LMH	MIN	AB & MIN	POE	Phaseout By 2020	
Interims	HCFC R-401A	R-12	MH	N/A	AB & MIN	POE & MIN	POE	Service Only Suva® MP39	
	HCFC R-401B	R-12	LM	N/A	AB & MIN	POE & MIN	POE	Service Only Suva® MP66	
	HCFC R-402A	R-502	LM	N/A	AB & MIN	POE & MIN	POE	Service Only Suva® HP80	
	HCFC R-402B ²	R-502	LM	N/A	AB & MIN	POE & MIN	POE	Service Only Suva® HP81	
	HCFC R-408A	R-502	LM	N/A	AB & MIN	POE & MIN	POE	Service Only FX10	
	HCFC R-409A	R-12	LM	N/A	AB & MIN	POE & MIN	POE	Service Only FX56	
Non-Ozone Depleting	HFC R-134a	R-12	MH	MH	POE				
	HFC R-404A	R-502	LM	LM	POE		Suva® HP62, Forane® FX70		
	HFC R-507A	R-502	LM	LM	POE		Genetron® AZ50		
	HFC R-407C	R-22	MH	MH	POE		Suva® 9000/KLEA 66		
	HFC R-410A			MH	POE		Genetron® AZ20/Suva® 9100**		
Screw Compressors Only	HFC R-134a		MH		SOLEST 170				
	HFC R-407C		MH		SOLEST 170				
	HFC 4-507A		LMH		SOLEST 170				
	HCFC R-22		MH		CP4214 320				SC Models Only
	HCFC R-22		LMH		CP4214 150				SH Models Only

Legend:

MIN = Mineral Oil (Copeland 46BWMO¹, Crompton Suniso 3GS, Chevron/Texaco Capella WF32 and Calumet RO15)
 AB = Alkyl Benzene (Shrieve Zerol 200 TD, Soltex AB200A, Crompton Suniso AKB200A or Fuchs Reniso SP46)
 POE = Copeland Ultra 22 CC, Copeland Ultra 32 CC, Copeland Ultra 32-3MAF, Mobil EAL™ Arctic 22 CC, Uniqema Emkarate RL32CF or Uniqema RL32-3MAF
 POE & MIN = Minimum 50% POE
 AB & MIN = Minimum 50% Alkyl Benzene (Shell 22-12 or Fuchs Reniso Triton MS46)
 L = Low temperature application
 M = Medium temperature application
 H = High temperature application

Refer to the following Application Bulletins for additional information:

4-1295 HFC-134a Refrigerant Guidelines
 27-1308, 27-1309 and 27-1322 for Screw Compressors
 25-1177 Safe Handling Of Compressed Gases
 93-02 CFC-12 To R-401A*
 93-03 CFC-12 To R-401B*
 93-04 CFC-12 To HFC-134a*
 93-05 R-502 To R-402A/R-408A*
 94-15 R-502 To R-404A/R-507*
 95-14 R-22 To R-407C*

MSDS sheets are available on the Copeland Website under Publications.

For specific product availability and performance data refer to Copeland Sales Literature

*Refrigerant Changeover Guidelines

**New equipment only

¹For R-22, this oil is factory charged for use on Scroll A/C applications and is equivalent to Crompton Suniso 3GS.

²Ice machine applications only

Compressor nameplates identify both the oil type and oil amount.

MIN = Mineral Oil
 POE = Polyol Ester Oil
 AB = Alkylbenzene