



## Copeland Accepted Refrigerants/Lubricants

	Refrigerants	Source	Similar To	Application		Lubricant Choices			Comments
				Retrofit	New	Preferred	Alternate #1	Alternate #2	
Ozone Depleting	CFC R-12	Many		LM	LM	MO	AB & MO		Phaseout By 1996 Phaseout By 1996 Phaseout By 2020
	CFC R-502	Many		LM	LM	MO	AB & MO	POE	
	HCFC R-22	Many		LMH	LMH	MO	AB & MO	POE	
Interims	HCFC R-401A	Dupont/Allied	R-12	MH	N/A	AB & MO	POE & MO	POE	Service Only Suva® MP39 Service Only Suva® MP66 Service Only Suva® HP80 Service Only FX10 Service Only FX56
	HCFC R-401B	Dupont/Allied	R-12	LM	N/A	AB & MO	POE & MO	POE	
	HCFC R-402A	Dupont	R-502	LM	N/A	AB & MO	POE & MO	POE	
	HCFC R-408A	Atochem	R-502	LM	N/A	AB & MO	POE & MO	POE	
	HCFC R-409A	Atochem	R-12	LM	N/A	AB & MO	POE & MO	POE	
Non-Ozone Depleting	HFC R-134a	Many	R-12	MH	MH	POE			Suva® HP62, Forane®FX70 Genetron® AZ50 Suva® 9000/KLEA 66 Genetron® AZ20/Suva® 9100**
	HFC R-404A	Many	R-502	LM	LM	POE			
	HFC R-507	Allied	R-502	LM	LM	POE			
	HFC R-407C	Dupont/Allied ICI	R-22	MH	MH	POE			
	HFC R-410A	Allied/Dupont			MH	MH	POE		

\*\* New Equipment only

Legend:

MO = Mineral Oil (3GS or Equivalent)  
 AB = Alkyl Benzene (Copeland Ultra 200 or Shreve Zerol 200 TD or Soltex AB 200A or Thermal Zone 200)  
 POE = Copeland Ultra 22 CC, or Copeland Ultra 32 CC or Mobil EAL™ Arctic 22 CC or ICI Emkarate™ RL32CF or Thermal Zone 22CC, or 3MAE (A/C scroll only)  
 POE & MO = Minimum 50% POE  
 AB & MO = Minimum 50% Alkyl Benzene (Shell 22-12)

Refer to the following Application Bulletins for additional information:  
 4-1295 HFC-134a Refrigerant Guidelines  
 17-1248 Refrigeration Oils  
 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\*  
 94-15 R-502 To R-404A/R-507\*  
 95-14 R-22 To R-407C\*

Note: Shell 2212 Is A 70/30 Mixture Of AB And MO  
 Copeland Ultra 200, Zerol 200 TD and Soltex AB 200A are 100% AB

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

\*Refrigerant Changeover Guidelines

