

## REFRIGERANT REFERENCE GUIDE

ASHRAE #	Manufacturer Designation	Chemical Name	Chemical Formula	Type of Refrigerant	Application	Oils	Suggested Retrofit
R-11	N/A	Trichlorofluoromethane	$CCl_3F$	CFC	Centrifugal Chillers	Mineral, Alkylbenzene	R-123
R-12	N/A	Dichlorodifluoromethane	$CCl_2F_2$	CFC	Automotive, Med Temp Refrigeration	Mineral, Alkylbenzene	R-409A Stationary, R-134a Automotive
R-13	N/A	Chlorotrifluoromethane	$CClF_3$	CFC	Very Low Temp Refrigeration	Mineral, Alkylbenzene	R-23, R-508B
R-500	N/A	Blend R-12/152a	Blend	CFC	Commercial A/C	Mineral, Alkylbenzene	R-409A
R-502	N/A	Blend R-22/115	Blend	CFC	Low Temp Refrigeration	Mineral, Alkylbenzene	R-408A, R-404A, R-507
R-503	N/A	Blend R-23/13	Blend	CFC	Very Low Temp Refrigeration	Mineral, Alkylbenzene	R-23, R-508B
R-22	N/A	Chlorodifluoromethane	$CHClF_2$	HCFC	Air Conditioning, Low and Medium Temp Refrigeration	Mineral, Alkylbenzene, Polyolester	R-407C
R-123	N/A	2,2 dichloro-1,1,1 trifluoroethane	$CHCl_2CF_3$	HCFC	Low Pressure Centrifugal Chillers	Mineral, Alkylbenzene	N/A
R-401A	MP-39	Blend R-22/152a/124	Blend	HCFC	Retrofit for R-12	Mineral, Alkylbenzene, Polyolester	N/A
R-401B	MP-66	Blend R-22/152a/124	Blend	HCFC	Retrofit for R-12 low temp	Mineral, Alkylbenzene, Polyolester	N/A
R-402A	HP-80	Blend R-125/290/22	Blend	HCFC	Retrofit for R-502	Alkylbenzene, Polyolester	N/A
R-402B	HP-81	Blend R-125/290/22	Blend	HCFC	R-502 Retrofit for Ice Machines	Mineral, Alkylbenzene, Polyolester	N/A
R-408A	FX-10	Blend R-125/143a/22	Blend	HCFC	Retrofit for R-502	Mineral, Alkylbenzene, Polyolester	N/A
R-409A	FX-56	Blend R-22/142b/124	Blend	HCFC	Retrofit for R-12 (non-automotive)	Mineral, Alkylbenzene, Polyolester	N/A
R-23	N/A	Trifluoromethane	$CHF_3$	HFC	Very Low Temp Refrigeration	Polyolester	N/A
R-134a	N/A	1,1,1,2-tetrafluoroethane	$CH_2FCF_3$	HFC	Automotive A/C, Stationary A/C, Med Temp Refrigeration	Polyolester	N/A
R-404A	FX-70, HP-62	Blend R-125/143a/134a	Blend	HFC	Low Temp Refrigeration, Retrofit for R-502	Polyolester	N/A
R-407C	Suva 9000	Blend R-32/125/134a	Blend	HFC	Stationary A/C, Retrofit for R-22	Polyolester	N/A
R-410A	AZ-20, Puron, Suva 9100	Blend R-32/125	Blend	HFC	Stationary A/C	Polyolester	N/A
R-507	AZ-50	Blend R-125/143a	Blend	HFC	Low Temp Refrigeration, Retrofit for R-502	Polyolester	N/A
R-508B	Suva 95	Blend R-23/116	Blend	HFC	Very Low Temp Refrigeration	Polyolester	N/A

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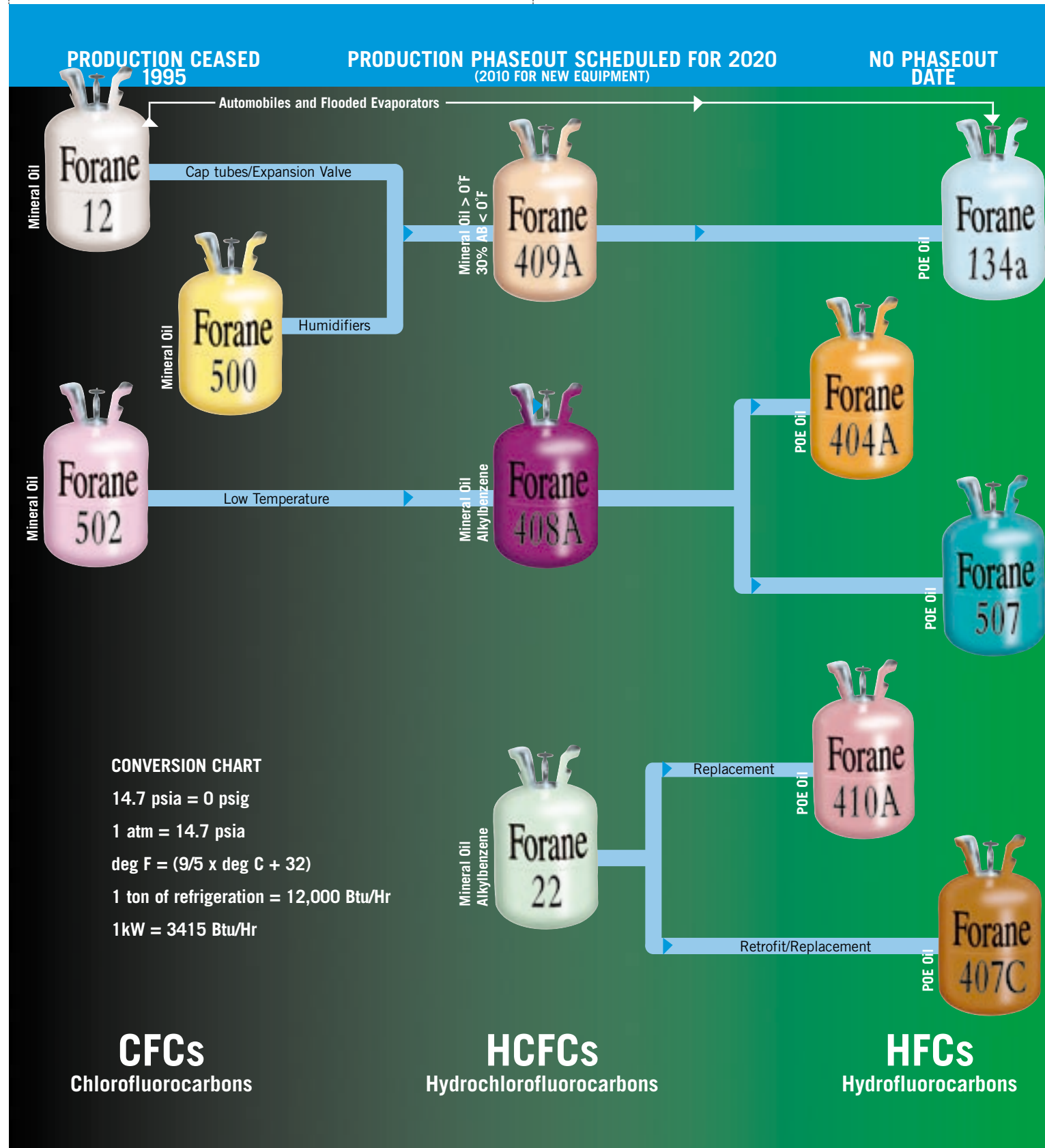
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See MSDS for Health & Safety Considerations



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