



## SEMI HERMETIC COMPRESSOR REFRIGERATION CROSS REFERENCE

REFRIGERANT	REPLACES		COMPOSITION	PERCENT	LUBRICANT	TRADE NAME	COMMENTS
R 401a	HCFC	R-12	R22/R124/R152a	53/34/13	AB/POE	MP-39	LOW / MED TEMP REFRIGERATION
R 401b	HCFC	R-12	R/22/R124/R152a	61/28/11	AB/POE	MP-66	IS DESIGNED FOR TRANSPORT SYSTEM APPLICATION
R 401c	HCFC	R-12	R22/R124/R152a	33/52/15	AB/POE	MP-52	WAS DESIGNED FOR MVAC APPLICATION
R 402a	HCFC	R-502	R22/R125/R290	38/60/2	AB/POE	HP-80	LOW / MED TEMP REFRIGERATION
R 402b	HCFC	R-502	R22/R125/R290	60/38/2	AB/POE	HP-81	ICE MACHINES
R 403a	HCFC	R13-13B1-503	R290/22/218	5/75/20	M/AB/POE	ISECON 69	NOT ACCEPTABLE UNDER THE SNAP RULES OF EPA
R 403b	HCFC	R13-13B1-503	R290/22/218	5/56/39	M/AB/POE	ISECON 69L	APPROVED FOR NON COMMERCIAL (INDUSTRIAL APP'S)
R 404a	HFC	R-502	R125/R134a/R143a	44/4/52	POE	HP-62	KNOWN AS FORANE & GENETRON 404a ALSO
R 405a	HCFC	R-12	R22/R152a/R142B/c318	45/7/5.5/42.5	M/AB		NOT ACCEPTABLE INDER THE SNAP RULES OF EPA
R 406a	HCFC	R-12	R22/R600a/R142b	55/4/41	M/AB/POE	GHG/McCOOL	FOR ALL LEVELS R-12 REPLACEMENT
R 407a	HFC	R-502	R32/R125/R134a	20/40/40	POE	KLEA 60	LOW MED TEMP REFRIGERATION
R 407b	HFC	R-502	R32/R125/R134a	10/70/20	POE	KLEA 61	LOW MED TEMP APPLICATIONS
R 407c	HFC	R-22	R32/R125/R134a	23/25/52	POE	KLEA 66	ALSO KNOWN AS SUVA 9000
R 408a	HCFC	R-502	R125/R143a/R22	7/46/47	AB	FX-10	GENETRON ALSO KNOWN AS HCFC BLEND EPSILON
R 409a	HCFC	R-12	R22/R124/R142b	60/25/15	AB	FX-56	ALSO KNOWN AS HCFC BLEND GAMMA
R 410a	HFC	R-22	R125/R32	50/50	POE	AZ-20	MED HI TEMP APPLICATIONS (AIR CONDITIONING)
R 410b	HFC	R-22	R125/R32	45/55	POE	AC9100	HI TEMP REFRIGERATION (AIR CONDITIONING)
R 411a	HCFC	R-12 / R-502	R1270/R22/R152a	1.5/87.5/11	AB	GREENCOOL	
R 411b	HCFC	R-12 / R-502	R1270/R22/R152a	3/94/3	AB	GREENCOOL	
R 412a	HCFC		R22/R218/R142b	70/5/25	M/AB	TP5R	ICI
R-413a	HFC	R-12	R218 / R134a /R600a	9 / 88/ 3	POE		RHONE POLNEC



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R414a	HCFC	R-12	R22/R600a/R124/R142b	55/4/15.5/25.5	M/AB		MVAC & STATIONARY ( MONROE AIR)
R414b	HCFC	R-12	R22/R600a/R124/142b	55/1.5/15.5/27	M/AB		MVAC & STATIONARY (IKON PROD)
R 507	HFC	R-502	R125/R143a	50/50	POE	AZ-50	SEE R-404a ALSO
R 508	PFC	R13/R13B1/R503	R23/R116	39/61	PAO/POE	KLEA 5R3	ULTRA LOW TEMP APPLICATIONS
R 509	HCFC	R12/R500	R22/R218	44/56	AB		
ALPHA	PFC	R-13/R13B1/R503	R-23 / R-116	39 / 61	POE	KLEA 5R3	SEE R-508
BETA	HCFC	R-12	R-124/R-134a /R600	39/59/2	AB/POE	FRIGC	MVAC APPLICATIONS
DELTA	HCFC	R-12	R-134a/R142b	19/79	AB/POE	FREEZONE	MVAC APPLICATIONS
EPSILON	HCFC	R-502	R-125 / R-143a /R-22	7 / 46/ 47	AB	FX-10	DESIGNATED AS R-408a
GAMMA	HCFC	R-12	R-22 / R-124 / R-142b	60 / 25 / 15	AB	FX-56	DESIGNATES AS R-409a
LAMBDA	HCFC	R-12	R/22 / R142b /R600a	65/31/4	M/AB	GHG-HP	MVAC APPLICATIONS
ZETA	HCFC	R-12				IKON-12	FOR MVAC APPLICATIONS ONLY
HOT SHOT	HCFC	R-12/R-500	R22/R124/R142b		M/AB		SEE 414b
FREEZONE	HCFC	R-12	R-134a/R142b	80/20	M/AB		
GHG-X4	HCFC	R-12 / R-500	R22 / R124 / R142b`		M/AB		
FREEZE-12	HCFC	R-12	R-134a / R142b		M/AB	FR-12	
G2018C	HCFC	R-12	R-22/R-152a/PROPYLENE		M/AB		MVAC MED & HI TEMP REFRIGERATION
NARM-502	HCFC	R-13/R503	R-22 / R152a /R-23				ULTRA LOW REFRIGERANT
R-134a	HFC	R-12			POE		USE FOR SUCTION TEMPERATURES ABOVE 30 DEG.F.
R-22	HCFC				M/AB		MED AND HIGH TEMP APPLICATIONS
R-23	HFC	R-13/R-503			POE		ULTRA LOW APPLICATIONS
R123	HCFC	R-11			M/AB		LOW PRESSURE GAS
R-124	HCFC	R-11			M/AB		HIGH TEMP FOR HIGH AMBIENT CONDITIONS
R-125	PFE	R-502			POE		LOW OR MED TEMP REFRIGERATION