

Refrigerant (ASHRAE#)	Refrigerant Supplier(s)	Refrigerant Reference(s)	Alternate for:	Type	Refrigerant Components	Refrigerant Composition (%)	Type	ODP	GWP	Vapor Pressure (DP) PSIG			Compatible Lubricants*			
										-10°F	+45°F	+130°F				
R12	Various		N/A	CFC	12	100	Pure Fluid	1.000	2400	4.49	41.68	181.01	<i>MO, SA</i>			
R500	Various				12/152a	74/26	Azeotrope	0.630	7900	7.76	51.85	218.20	<i>MO, SA</i>			
R502	Various				22/115	49/51	Azeotrope	0.230	4500	22.56	88.72	320.84	<i>MO, SA</i>			
R22	Various		R12	HCFC	22	100	Pure Fluid	0.050	1700	16.47	76.02	296.80	<i>MO, SA, POE</i>			
R134a	Various			HFC	134a	100	Pure Fluid	0.000	1300	1.98	39.98	198.92	<i>POE, PVE</i>			
R513A	Chemours	XP10		HFO	R1234yf/134a	56/44	Azeotrope	0.000	573	4.53	45.38	207.48	<i>POE</i>			
R1234yf	Honeywell				R1234yf	100	Pure Fluid	0.000	4	4.40	43.41	195.02	<i>POE</i>			
R401A	Dupont/Allied	MP39		HCFC	22/152a/124	53/13/34	Zeotrope	0.030	1100	2.40	40.54	197.50	<i>SA, MO</i>			
R401B	Dupont/Allied	MP66			22/152a/124	61/11/28		0.035	1200	3.50	44.00	210.00	<i>SA, MO</i>			
R406A	Ind. Ref. Prod.	GHG-12			22/142b/600a	55/41/4		0.036	1900	1.87	37.33	179.00	<i>MO, SA</i>			
R409A	Elf-Atochem	FX56			22/142b/124	60/15/25		0.050	1500	2.15	40.01	199.00	<i>MO, SA</i>			
R414B	ICOR	Hot Shot			22/124/600a/142b	50/39/1.5/9.5		0.031	1300	0.8**	35.40	179.50	<i>MO, SA</i>			
R290+	Various	Propane		HC	N/A	100	Pure Fluid	0.000	0	31.40	85.40	273.30	<i>POE, MO, SA</i>			
R600a+	Various	Isobutane	N/A		100	0.000		3	9.00	29.20	110.50	<i>MO, SA</i>				
R402A	Dupont	HP80	R502	HCFC	22/125/290	38/60/2	N-Azeotrope	0.020	2700	26.00	100.00	370.00	<i>SA, POE</i>			
R402B	Dupont	HP81			22/125/290	60/38/2		0.030	2300	22.66	91.67	345.00	<i>SA, POE</i>			
R403B	Rhone-Poulenc	R69L			22/218/290	56/39/5		0.025	4300	29.60	103.50	362.80	<i>MO, SA, POE</i>			
R408A	Elf-Atochem	FX10			22/143a/125	47/46/7		0.016	3000	19.40	86.20	332.10	<i>MO, SA, POE</i>			
R404A	Various	HP62, FX70		HFC	125/143a/134a	44/52/4	Azeotrope	0.000	3800	23.96	94.54	353.07	<i>POE, PVE</i>			
R507	Allied	AZ50			125/143a	50/50		0.000	3900	25.90	98.90	367.80	<i>POE</i>			
R422C	ICOR	One Shot C		HFO	125/134a/600a	82/15/3	Zeotrope	0.000	3033	20.40	88.70	354.10	<i>POE, (MO, SA)</i>			
R407A	Various	KLEA-60			32/125/134a	20/40/40		0.000	2000	29.90	92.80	343.60	<i>POE</i>			
R407B	ICI	KLEA-61			32/125/134a	10/70/20		0.000	2700	20.77	90.87	362.46	<i>POE</i>			
R448A	Honeywell	Solstice N20			32/125/134/1234yf/1234ze	26/26/21/7/20		0.000	1273	16.10	79.40	329.00	<i>POE</i>			
R449A	Chemours	Opteon XP-40	32/125/134/1234yf		24/25/26/25	0.000		1397	31.32	93.19	338.79	<i>POE</i>				
R452A #	Chemours	Opteon XP-44	32/125/1234yf		11/59/30	0.000		2141	35.56	101.70	356.80	<i>POE</i>				
R407C	Various	AC9000, KLEA-66	32/125/134a		23/25/52	0.000		1700	12.16	69.86	303.43	<i>POE, PVE, (SA)</i>				
R410A	Various	AC9100, AZ20	32/125		50/50	0.000		2000	37.74	132.34	478.87	<i>POE, PVE</i>				
R404A	Various	HP62, FX70	125/143a/134a	44/52/4	0.000	3800	23.96	94.54	353.07	<i>POE, PVE</i>						
R507	Allied	AZ50	125/143a	50/50	0.000	3900	25.90	98.90	367.80	<i>POE</i>						
R417A	Various	NU22, Isceon MO59	R22	HFC	125/134a/600	47/50/3	Zeotrope	0.000	1950	11.30	62.60	260.00	<i>POE, (MO, SA)</i>			
R422A	Isceon	One Shot MO79			125/134a/600a	85/12/3		0.000	2530	23.90	94.00	351.60	<i>POE, (MO, SA)</i>			
R422B	Enuro	NU22B			125/134a/600a	55/42/3		0.000	2080	17.10	77.40	300.60	<i>POE, (MO, SA)</i>			
R422C	ICOR	One Shot C			125/134a/600a	82/15/3		0.000	3033	20.40	88.70	354.10	<i>POE, (MO, SA)</i>			
R422D	Isceon	MO29			125/134a/600a	65/32/3		0.000	2700	19.80	84.20	320.20	<i>POE, (MO, SA)</i>			
R427A	Forane	FX100			32/125/143a/134a	15/25/10/50		0.000	1830	10.80	65.60	289.50	<i>POE, (MO, SA)</i>			
R438A	Dupont/Isceon	MO99			32/125/134a/600/601a	8/45/44/2/1		0.000	2264	11.60	67.70	292.00	<i>POE, (MO, SA)</i>			
R407A	Various	KLEA-60			32/125/134a	20/40/40		0.000	2107	23.20	94.60	357.94	<i>POE</i>			
R453A	Various	RS-70			134a/32/125/227ea/600a/600	53.8/20/20/51.6/6		0.000	1765	10.68	64.15	282.56	<i>POE, (MO, SA)</i>			
R421A	Choice Ref.				125/134a	58/42		0.000	2600	16.50	76.20	298.90	<i>POE, (MO, SA)</i>			
R424A	Ref. Products	RS-44			125/134a/600/600a/601a	50/47/1/1/1		0.000	2011	5.80	51.20	245.70	<i>POE, (MO, SA)</i>			
R407A	Various	KLEA-60			R404A	HFC		32/125/134a	20/40/40	Zeotrope	0.000	2000	29.90	92.80	343.60	<i>POE</i>
R448A	Honeywell	Solstice N20						32/125/134/1234yf/1234ze	26/26/21/7/20		0.000	1273	16.10	79.40	329.00	<i>POE</i>
R449A	Chemours	Opteon XP-40						32/125/134/1234yf	24/25/26/25		0.000	1397	31.32	93.19	338.79	<i>POE</i>
R452A #	Chemours	Opteon XP-44	32/125/1234yf	11/59/30			0.000	2141	35.56		101.70	356.80	<i>POE</i>			

* Compatible Lubricant: MO = Mineral Oil; SA = Synthetic Alkylate (also referred to as AB or Alkylbenze); POE = Polyol Ester; PVE = Polyvinyl Ether

Lubricants shown in **BOLD ITALIC** are recommended for use with the corresponding refrigerants. Consult Tecumseh's Policy Bulletin PB105 to verify approved compressor lubricants.

** Inches of mercury below atmospheric pressure.

+ Local regulations apply to the use of Hydrocarbon refrigerants.

U.S. EPA SNAP Approved for remote condensing unit applications.

Notes:

- This listing is for reference only and does not represent an endorsement by Tecumseh Products Company LLC of any particular refrigerant supplier.
- GWP, Global Warming Potential (for 100 year integration)

Tecumseh approved alternate R22 refrigerant, guidelines available

Tecumseh guidelines are available for these additional listed refrigerants