

# R-421A EXTENDED TECHNICAL DATA

Temp [F]	Pressure (L) [psia]	Pressure (V) [psia]	Density (L) [lb/ft <sup>3</sup> ]	Density (V) [lb/ft <sup>3</sup> ]	Enthalpy (L) [Btu/lb]	Enthalpy (V) [Btu/lb]	Entropy (L) [Btu/R-lb]	Entropy (V) [Btu/R-lb]	Mass frac. (L) [R125]	Mass frac. (L)2 [R134a]	Mass frac. (V) [R125]	Mass frac. (V)3 [R134a]
-60	8.81	6.469	93.38	0.1726	59.22	142.6	0.179	0.3904	0.58	0.42	0.58	0.42
-55	10.16	7.557	92.82	0.1996	60.61	143.3	0.1825	0.3895	0.58	0.42	0.58	0.42
-50	11.68	8.787	92.26	0.23	62.01	144	0.1859	0.3887	0.58	0.42	0.58	0.42
-45	13.37	10.17	91.7	0.2639	63.42	144.8	0.1893	0.3879	0.58	0.42	0.58	0.42
-40	15.24	11.73	91.13	0.3017	64.83	145.5	0.1927	0.3872	0.58	0.42	0.58	0.42
-35	17.32	13.47	90.56	0.3436	66.25	146.2	0.196	0.3866	0.58	0.42	0.58	0.42
-30	19.61	15.4	89.98	0.39	67.67	146.9	0.1994	0.3859	0.58	0.42	0.58	0.42
-25	22.13	17.55	89.39	0.4411	69.11	147.6	0.2027	0.3854	0.58	0.42	0.58	0.42
-20	24.9	19.93	88.8	0.4975	70.55	148.3	0.2059	0.3848	0.58	0.42	0.58	0.42
-15	27.93	22.55	88.2	0.5593	72	149.1	0.2092	0.3844	0.58	0.42	0.58	0.42
-10	31.23	25.44	87.6	0.6271	73.45	149.8	0.2124	0.3839	0.58	0.42	0.58	0.42
-5	34.83	28.6	86.99	0.7012	74.92	150.5	0.2157	0.3835	0.58	0.42	0.58	0.42
0	38.74	32.07	86.37	0.782	76.39	151.1	0.2189	0.3831	0.58	0.42	0.58	0.42
5	42.98	35.84	85.74	0.87	77.87	151.8	0.2221	0.3828	0.58	0.42	0.58	0.42
10	47.57	39.96	85.11	0.9657	79.36	152.5	0.2252	0.3825	0.58	0.42	0.58	0.42
15	52.52	44.42	84.47	1.07	80.87	153.2	0.2284	0.3822	0.58	0.42	0.58	0.42
20	57.85	49.26	83.81	1.182	82.38	153.9	0.2315	0.3819	0.58	0.42	0.58	0.42
25	63.58	54.49	83.15	1.304	83.9	154.5	0.2346	0.3816	0.58	0.42	0.58	0.42
30	69.73	60.14	82.48	1.436	85.43	155.2	0.2378	0.3814	0.58	0.42	0.58	0.42
35	76.33	66.21	81.8	1.578	86.97	155.8	0.2409	0.3812	0.58	0.42	0.58	0.42
40	83.38	72.75	81.1	1.732	88.52	156.4	0.244	0.381	0.58	0.42	0.58	0.42
45	90.9	79.76	80.4	1.898	90.09	157.1	0.247	0.3808	0.58	0.42	0.58	0.42
50	98.93	87.27	79.68	2.076	91.66	157.7	0.2501	0.3806	0.58	0.42	0.58	0.42
55	107.5	95.3	78.94	2.269	93.26	158.3	0.2532	0.3805	0.58	0.42	0.58	0.42
60	116.6	103.9	78.19	2.476	94.86	158.9	0.2562	0.3803	0.58	0.42	0.58	0.42
65	126.2	113	77.42	2.699	96.48	159.4	0.2593	0.3802	0.58	0.42	0.58	0.42
70	136.5	122.8	76.64	2.939	98.11	160	0.2624	0.38	0.58	0.42	0.58	0.42
75	147.3	133.1	75.84	3.197	99.76	160.5	0.2654	0.3799	0.58	0.42	0.58	0.42
80	158.8	144.1	75.01	3.476	101.4	161.1	0.2685	0.3797	0.58	0.42	0.58	0.42
85	170.9	155.8	74.16	3.776	103.1	161.6	0.2715	0.3795	0.58	0.42	0.58	0.42
90	183.7	168.1	73.29	4.099	104.8	162.1	0.2746	0.3793	0.58	0.42	0.58	0.42
95	197.2	181.2	72.39	4.448	106.5	162.5	0.2776	0.3792	0.58	0.42	0.58	0.42
100	211.4	195.1	71.47	4.825	108.3	163	0.2807	0.3789	0.58	0.42	0.58	0.42
105	226.4	209.7	70.51	5.233	110.1	163.4	0.2838	0.3787	0.58	0.42	0.58	0.42
110	242.2	225.1	69.51	5.676	111.9	163.7	0.2869	0.3785	0.58	0.42	0.58	0.42
115	258.7	241.4	68.47	6.157	113.7	164.1	0.29	0.3782	0.58	0.42	0.58	0.42
120	276.1	258.6	67.39	6.681	115.5	164.4	0.2931	0.3778	0.58	0.42	0.58	0.42
125	294.4	276.7	66.26	7.255	117.4	164.6	0.2963	0.3774	0.58	0.42	0.58	0.42
130	313.6	295.7	65.06	7.885	119.4	164.8	0.2995	0.377	0.58	0.42	0.58	0.42
135	333.7	315.8	63.8	8.581	121.3	165	0.3027	0.3765	0.58	0.42	0.58	0.42
140	354.8	336.9	62.45	9.355	123.4	165.1	0.306	0.3759	0.58	0.42	0.58	0.42
145	376.8	359.1	61.01	10.22	125.5	165	0.3094	0.3751	0.58	0.42	0.58	0.42
150	400	382.5	59.43	11.21	127.6	164.9	0.3128	0.3743	0.58	0.42	0.58	0.42
155	424.2	407.2	57.7	12.34	129.9	164.7	0.3164	0.3732	0.58	0.42	0.58	0.42
160	449.5	433.2	55.74	13.67	132.3	164.2	0.3202	0.3719	0.58	0.42	0.58	0.42

# EXTENDED P/T CHART

Temp (F)	R-410A psia	R-421A psia	R-22 psia	R-410A psig	R-421A psig	R-22 psig
-60	15.06	8.81	8.836	0.4	12.5	12.4
-55	17.29	10.16	10.19	2.6	9.8	9.7
-50	19.77	11.68	11.7	5.1	6.7	6.6
-45	22.52	13.37	13.39	7.8	3.2	3.2
-40	25.57	15.24	15.26	10.9	0.5	0.6
-35	28.93	17.32	17.34	14.2	2.6	2.6
-30	32.63	19.61	19.62	17.9	4.9	4.9
-25	36.68	22.13	22.14	22.0	7.4	7.4
-20	41.12	24.9	24.91	26.4	10.2	10.2
-15	45.96	27.93	27.93	31.3	13.2	13.2
-10	51.22	31.23	31.23	36.5	16.5	16.5
-5	56.94	34.83	34.82	42.2	20.1	20.1
0	63.14	38.74	38.73	48.4	24.0	24.0
5	69.84	42.98	42.96	55.1	28.3	28.3
10	77.08	47.57	47.54	62.4	32.9	32.8
15	84.87	52.52	52.48	70.2	37.8	37.8
20	93.24	57.85	57.79	78.5	43.2	43.1
25	102.2	63.58	63.51	87.5	48.9	48.8
30	111.9	69.73	69.65	97.2	55.0	55.0
35	122.2	76.33	76.22	107.5	61.6	61.5
40	133.2	83.38	83.26	118.5	68.7	68.6
45	144.9	90.9	90.76	130.2	76.2	76.1
50	157.4	98.93	98.76	142.7	84.2	84.1
55	170.7	107.5	107.3	156.0	92.8	92.6
60	184.8	116.6	116.3	170.1	101.9	101.6
65	199.8	126.2	125.9	185.1	111.5	111.2
70	215.7	136.5	136.1	201.0	121.8	121.4
75	232.5	147.3	146.9	217.8	132.6	132.2
80	250.3	158.8	158.3	235.6	144.1	143.6
85	269.1	170.9	170.4	254.4	156.2	155.7
90	289	183.7	183.1	274.3	169.0	168.4
95	310	197.2	196.5	295.3	182.5	181.8
100	332	211.4	210.6	317.3	196.7	195.9
105	355.3	226.4	225.5	340.6	211.7	210.8
110	379.8	242.2	241.1	365.1	227.5	226.4
115	405.6	258.7	257.5	390.9	244.0	242.8
120	432.7	276.1	274.7	418.0	261.4	260.0
125	461.2	294.4	292.7	446.5	279.7	278.0
130	491.2	313.6	311.6	476.5	298.9	296.9
135	522.7	333.7	331.4	508.0	319.0	316.7
140	555.9	354.8	352.1	541.2	340.1	337.4
145	590.7	376.8	373.7	576.0	362.1	359.0
150	627.5	400	396.4	612.8	385.3	381.7

\*vacuum in inches of water