

RS-50 (R442A) PRESSURE & TEMPERATURE TABLE : ABSOLUTE



TEMPERATURE	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
(oC)	(kPa)	(kPa)	(bara)	(bara)	(psia)	(psia)
-60	49.76	33.15	0.50	0.33	7.22	4.81
-58	55.63	37.47	0.56	0.37	8.07	5.43
-56	62.05	42.24	0.62	0.42	9.00	6.12
-54	69.05	47.48	0.69	0.47	10.01	6.88
-52	76.66	53.24	0.77	0.53	11.12	7.72
-50	84.93	59.54	0.85	0.60	12.31	8.63
-48	93.90	66.43	0.94	0.66	13.62	9.63
-46	103.60	73.95	1.04	0.74	15.02	10.72
-44	114.08	82.13	1.14	0.82	16.54	11.91
-42	125.37	91.01	1.25	0.91	18.18	13.20
-40	137.53	100.64	1.38	1.01	19.94	14.59
-38	150.60	111.06	1.51	1.11	21.84	16.10
-36	164.62	122.32	1.65	1.22	23.87	17.74
-34	179.65	134.46	1.80	1.34	26.05	19.50
-32	195.72	147.52	1.96	1.48	28.38	21.39
-30	212.88	161.57	2.13	1.62	30.87	23.43
-28	231.20	176.64	2.31	1.77	33.52	25.61
-26	250.70	192.78	2.51	1.93	36.35	27.95
-24	271.46	210.06	2.71	2.10	39.36	30.46
-22	293.52	228.51	2.94	2.29	42.56	33.13
-20	316.93	248.21	3.17	2.48	45.95	35.99
-18	341.75	269.19	3.42	2.69	49.55	39.03
-16	368.03	291.52	3.68	2.92	53.36	42.27
-14	395.83	315.25	3.96	3.15	57.40	45.71
-12	425.20	340.45	4.25	3.40	61.65	49.37
-10	456.19	367.17	4.56	3.67	66.15	53.24
-8	488.88	395.48	4.89	3.95	70.89	57.34
-6	523.31	425.42	5.23	4.25	75.88	61.69
-4	559.55	457.08	5.60	4.57	81.13	66.28
-2	597.65	490.51	5.98	4.91	86.66	71.12
0	637.67	525.77	6.38	5.26	92.46	76.24
2	679.68	562.93	6.80	5.63	98.55	81.62
4	723.74	602.07	7.24	6.02	104.94	87.30
6	769.91	643.24	7.70	6.43	111.64	93.27
8	818.24	686.52	8.18	6.87	118.64	99.55
10	868.82	731.98	8.69	7.32	125.98	106.14
12	921.69	779.69	9.22	7.80	133.65	113.06
14	976.93	829.73	9.77	8.30	150.02	120.31
16	1034.60	882.16	10.35	8.82	150.02	127.91
18	1094.80	937.07	10.95	9.37	158.75	135.88
20	1157.50	994.54	11.58	9.95	167.84	144.21
22	1222.80	1054.60	12.23	10.55	177.31	152.92
24	1290.90	1117.50	12.91	11.18	187.18	162.04
26	1361.70	1183.10	13.62	11.83	197.45	171.55
28	1435.40	1251.60	14.35	12.52	208.13	181.48
30	1512.00	1323.00	15.12	13.23	219.24	191.84
32	1591.50	1397.60	15.92	13.98	230.77	202.65
34	1674.10	1475.30	16.74	14.75	242.74	213.92
36	1759.80	1556.20	17.60	15.56	255.17	225.65
38	1848.80	1640.50	18.49	16.41	268.08	237.87
40	1941.00	1728.20	19.41	17.28	281.45	250.59
42	2036.60	1819.50	20.37	18.20	295.31	263.83
44	2135.50	1914.50	21.36	19.15	309.65	277.60
46	2238.10	2013.20	22.38	20.13	324.52	291.91
48	2344.10	2115.90	23.44	21.16	339.89	306.81
50	2453.90	2222.60	24.54	22.23	355.82	322.28
52	2567.40	2333.50	25.67	23.34	372.27	338.36
54	2684.80	2448.60	26.85	24.49	389.30	355.05
56	2806.10	2568.30	28.06	25.68	406.88	372.40
58	2931.50	2692.60	29.32	26.93	425.07	390.43
60	3060.90	2821.70	30.61	28.22	443.83	409.15
62	3194.60	2955.90	31.95	29.56	463.22	428.61
64	3332.50	3095.30	33.33	30.95	483.21	448.82
66	3474.80	3240.30	34.75	32.40	503.85	469.84
68	3621.50	3391.10	36.22	33.91	525.12	491.71
70	3772.80	3548.10	37.73	35.48	547.06	514.47
72	3928.50	3711.90	39.29	37.12	569.63	538.23
74	4088.80	3883.00	40.89	38.83	592.88	563.04

TEMPERATURE GLIDE: APPROXIMATELY 1.5 DEG C



RS-50 (R442A) PRESSURE & TEMPERATURE TABLE : GAUGE

TEMPERATURE	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
(oC)	(kPag)	(kPag)	(barg)	(barg)	(psig)	(psig)
-60	-51.54	-68.15	-0.52	-0.68	-7.47	-9.88
-58	-45.67	-63.83	-0.46	-0.64	-6.62	-9.26
-56	-39.25	-59.06	-0.39	-0.59	-5.69	-8.56
-54	-32.25	-53.82	-0.32	-0.54	-4.68	-7.80
-52	-24.64	-48.06	-0.25	-0.48	-3.57	-6.97
-50	-16.37	-41.76	-0.16	-0.42	-2.37	-6.06
-48	-7.40	-34.87	-0.07	-0.35	-1.07	-5.06
-46	2.30	-27.35	0.02	-0.27	0.33	-3.97
-44	12.78	-19.17	0.13	-0.19	1.85	-2.78
-42	24.07	-10.29	0.24	-0.10	3.49	-1.49
-40	36.23	-0.66	0.36	-0.01	5.25	-0.10
-38	49.30	9.76	0.49	0.10	7.15	1.42
-36	63.32	21.02	0.63	0.21	9.18	3.05
-34	78.35	33.16	0.78	0.33	11.36	4.81
-32	94.42	46.22	0.94	0.46	13.69	6.70
-30	111.58	60.27	1.12	0.60	16.18	8.74
-28	129.90	75.34	1.30	0.75	18.84	10.92
-26	149.40	91.48	1.49	0.91	21.66	13.26
-24	170.16	108.76	1.70	1.09	24.67	15.77
-22	192.22	127.21	1.92	1.27	27.87	18.45
-20	215.63	146.91	2.16	1.47	31.27	21.30
-18	240.45	167.89	2.40	1.68	34.87	24.34
-16	266.73	190.22	2.67	1.90	38.68	27.58
-14	294.53	213.95	2.95	2.14	42.71	31.02
-12	323.90	239.15	3.24	2.39	46.97	34.68
-10	354.89	265.87	3.55	2.66	51.46	38.55
-8	387.58	294.18	3.88	2.94	56.20	42.66
-6	422.01	324.12	4.22	3.24	61.19	47.00
-4	458.25	355.78	4.58	3.56	66.45	51.59
-2	496.35	389.21	4.96	3.89	71.97	56.44
0	536.37	424.47	5.36	4.24	77.77	61.55
2	578.38	461.63	5.78	4.62	83.87	66.94
4	622.44	500.77	6.22	5.01	90.25	72.61
6	668.61	541.94	6.69	5.42	96.95	78.58
8	716.94	585.22	7.17	5.85	103.96	84.86
10	767.52	630.68	7.68	6.31	111.29	91.45
12	820.39	678.39	8.20	6.78	118.96	98.37
14	875.63	728.43	8.76	7.28	126.97	105.62
16	933.30	780.86	9.33	7.81	135.33	113.22
18	993.50	835.77	9.94	8.36	144.06	121.19
20	1056.20	893.24	10.56	8.93	153.15	129.52
22	1121.50	953.30	11.22	9.53	162.62	138.23
24	1189.60	1016.20	11.90	10.16	172.49	147.35
26	1260.40	1081.80	12.60	10.82	182.76	156.86
28	1334.10	1150.30	13.34	11.50	193.44	166.79
30	1410.70	1221.70	14.11	12.22	204.55	177.15
32	1490.20	1296.30	14.90	12.96	216.08	187.96
34	1572.80	1374.00	15.73	13.74	228.06	199.23
36	1658.50	1454.90	16.59	14.55	240.48	210.96
38	1747.50	1539.20	17.48	15.39	253.39	223.18
40	1839.70	1626.90	18.40	16.27	266.76	235.90
42	1935.30	1718.20	19.35	17.18	280.62	249.14
44	2034.20	1813.20	20.34	18.13	294.96	262.91
46	2136.80	1911.90	21.37	19.12	309.84	277.23
48	2242.80	2014.60	22.43	20.15	325.21	292.12
50	2352.60	2121.30	23.53	21.21	341.13	307.59
52	2466.10	2232.20	24.66	22.32	357.58	323.67
54	2583.50	2347.30	25.84	23.47	374.61	340.36
56	2704.80	2467.00	27.05	24.67	392.20	357.72
58	2830.20	2591.30	28.30	25.91	410.38	375.74
60	2959.60	2720.40	29.60	27.20	429.14	394.46
62	3093.30	2854.60	30.93	28.55	448.53	413.92
64	3231.20	2994.00	32.31	29.94	468.52	434.13
66	3373.50	3139.00	33.74	31.39	489.16	455.16
68	3520.20	3289.80	35.20	32.90	510.43	477.02
70	3671.50	3446.80	36.72	34.47	532.37	499.79
72	3827.20	3610.60	38.27	36.11	554.94	523.54
74	3987.50	3781.70	39.88	37.82	578.19	548.35

TEMPERATURE GLIDE: APPROXIMATELY 1.5 DEG C