

RS-70 (R453A) PRESSURE & TEMPERATURE TABLE : ABSOLUTE



TEMPERATURE (°C)	BUBBLE PRESSURE (LIQUID) (kPa)	DEW PRESSURE (VAPOUR) (kPa)	BUBBLE PRESSURE (LIQUID) (bara)	DEW PRESSURE (VAPOUR) (bara)	BUBBLE PRESSURE (LIQUID) (psia)	DEW PRESSURE (VAPOUR) (psia)
-60	40.12	25.40	0.40	0.25	5.82	3.68
-59	42.47	27.05	0.42	0.27	6.16	3.92
-58	44.93	28.79	0.45	0.29	6.51	4.17
-57	47.50	30.61	0.48	0.31	6.89	4.44
-56	50.19	32.53	0.50	0.33	7.28	4.72
-55	53.00	34.54	0.53	0.35	7.69	5.01
-54	55.94	36.66	0.56	0.37	8.11	5.32
-53	59.00	38.88	0.59	0.39	8.56	5.64
-52	62.20	41.20	0.62	0.41	9.02	5.97
-51	65.54	43.64	0.66	0.44	9.50	6.33
-50	69.02	46.20	0.69	0.46	10.01	6.70
-49	72.64	48.87	0.73	0.49	10.53	7.09
-48	76.42	51.67	0.76	0.52	11.08	7.49
-47	80.35	54.59	0.80	0.55	11.65	7.92
-46	84.43	57.65	0.84	0.58	12.24	8.36
-45	88.69	60.84	0.89	0.61	12.86	8.82
-44	93.11	64.17	0.93	0.64	13.50	9.30
-43	97.70	67.65	0.98	0.68	14.17	9.81
-42	102.47	71.27	1.02	0.71	14.86	10.33
-41	107.43	75.05	1.07	0.75	15.58	10.88
-40	112.57	78.99	1.13	0.79	16.32	11.45
-39	117.90	83.09	1.18	0.83	17.10	12.05
-38	123.43	87.36	1.23	0.87	17.90	12.67
-37	129.16	91.80	1.29	0.92	18.73	13.31
-36	135.10	96.42	1.35	0.96	19.59	13.98
-35	141.26	101.23	1.41	1.01	20.48	14.68
-34	147.63	106.22	1.48	1.06	21.41	15.40
-33	154.22	111.40	1.54	1.11	22.36	16.15
-32	161.04	116.78	1.61	1.17	23.35	16.93
-31	168.10	122.36	1.68	1.22	24.37	17.74
-30	175.39	128.16	1.75	1.28	25.43	18.58
-29	182.93	134.16	1.83	1.34	26.52	19.45
-28	190.72	140.39	1.91	1.40	27.65	20.36
-27	198.76	146.84	1.99	1.47	28.82	21.29
-26	207.07	153.52	2.07	1.54	30.03	22.26
-25	215.64	160.44	2.16	1.60	31.27	23.26
-24	224.48	167.60	2.24	1.68	32.55	24.30
-23	233.60	175.01	2.34	1.75	33.87	25.38
-22	243.01	182.67	2.43	1.83	35.24	26.49
-21	252.71	190.60	2.53	1.91	36.64	27.64
-20	262.70	198.78	2.63	1.99	38.09	28.82
-19	272.99	207.24	2.73	2.07	39.58	30.05
-18	283.59	215.98	2.84	2.16	41.12	31.32
-17	294.51	225.00	2.95	2.25	42.70	32.63
-16	305.74	234.31	3.06	2.34	44.33	33.97
-15	317.30	243.92	3.17	2.44	46.01	35.37
-14	329.19	253.83	3.29	2.54	47.73	36.81
-13	341.42	264.04	3.41	2.64	49.51	38.29
-12	354.00	274.58	3.54	2.75	51.33	39.81
-11	366.92	285.44	3.67	2.85	53.20	41.39
-10	380.20	296.62	3.80	2.97	55.13	43.01
-9	393.85	308.14	3.94	3.08	57.11	44.68
-8	407.87	320.01	4.08	3.20	59.14	46.40
-7	422.26	332.22	4.22	3.32	61.23	48.17
-6	437.03	344.78	4.37	3.45	63.37	49.99
-5	452.20	357.72	4.52	3.58	65.57	51.87
-4	467.76	371.02	4.68	3.71	67.83	53.80
-3	483.72	384.69	4.84	3.85	70.14	55.78
-2	500.09	398.75	5.00	3.99	72.51	57.82
-1	516.88	413.20	5.17	4.13	74.95	59.91
0	534.09	428.05	5.34	4.28	77.44	62.07
1	551.72	443.31	5.52	4.43	80.00	64.28
2	569.80	458.98	5.70	4.59	82.62	66.55
3	588.31	475.06	5.88	4.75	85.30	68.88
4	607.28	491.58	6.07	4.92	88.06	71.28
5	626.70	508.53	6.27	5.09	90.87	73.74
6	646.59	525.92	6.47	5.26	93.76	76.26
7	666.94	543.76	6.67	5.44	96.71	78.85
8	687.78	562.06	6.88	5.62	99.73	81.50
9	709.10	580.83	7.09	5.81	102.82	84.22
10	730.90	600.07	7.31	6.00	105.98	87.01

RS-70 (R453A) PRESSURE & TEMPERATURE TABLE : ABSOLUTE



TEMPERATURE (oC)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
	(kPa)	(kPa)	(bara)	(bara)	(psia)	(psia)
11	753.21	619.79	7.53	6.20	109.22	89.87
12	776.02	640.00	7.76	6.40	112.52	92.80
13	799.35	660.71	7.99	6.61	115.91	95.80
14	823.19	681.93	8.23	6.82	119.36	98.88
15	847.57	703.66	8.48	7.04	122.90	102.03
16	872.47	725.91	8.72	7.26	126.51	105.26
17	897.92	748.69	8.98	7.49	130.20	108.56
18	923.92	772.01	9.24	7.72	133.97	111.94
19	950.47	795.87	9.50	7.96	137.82	115.40
20	977.58	820.30	9.78	8.20	141.75	118.94
21	1005.30	845.29	10.05	8.45	145.77	122.57
22	1033.50	870.85	10.34	8.71	149.86	126.27
23	1062.40	896.99	10.62	8.97	154.05	130.06
24	1091.80	923.73	10.92	9.24	158.31	133.94
25	1121.90	951.06	11.22	9.51	162.68	137.90
26	1152.50	979.01	11.53	9.79	167.11	141.96
27	1183.80	1007.60	11.84	10.08	171.65	146.10
28	1215.70	1036.80	12.16	10.37	176.28	150.34
29	1248.20	1066.60	12.48	10.67	180.99	154.66
30	1281.40	1097.10	12.81	10.97	185.80	159.08
31	1315.20	1128.20	13.15	11.28	190.70	163.59
32	1349.70	1160.00	13.50	11.60	195.71	168.20
33	1384.80	1192.50	13.85	11.93	200.80	172.91
34	1420.60	1225.60	14.21	12.26	205.99	177.71
35	1457.10	1259.50	14.57	12.60	211.28	182.63
36	1494.30	1294.10	14.94	12.94	216.67	187.64
37	1532.10	1329.40	15.32	13.29	222.15	192.76
38	1570.70	1365.40	15.71	13.65	227.75	197.98
39	1610.00	1402.10	16.10	14.02	233.45	203.30
40	1650.00	1439.60	16.50	14.40	239.25	208.74
41	1690.70	1477.90	16.91	14.78	245.15	214.30
42	1732.20	1516.90	17.32	15.17	251.17	219.95
43	1774.40	1556.80	17.74	15.57	257.29	225.74
44	1817.30	1597.40	18.17	15.97	263.51	231.62
45	1861.00	1638.80	18.61	16.39	269.85	237.63
46	1905.50	1681.10	19.06	16.81	276.30	243.76
47	1950.80	1724.10	19.51	17.24	282.87	249.99
48	1996.90	1768.10	19.97	17.68	289.55	256.37
49	2043.70	1812.90	20.44	18.13	296.34	262.87
50	2091.40	1858.50	20.91	18.59	303.25	269.48
51	2139.80	1905.10	21.40	19.05	310.27	276.24
52	2189.10	1952.50	21.89	19.53	317.42	283.11
53	2239.30	2000.90	22.39	20.01	324.70	290.13
54	2290.20	2050.10	22.90	20.50	332.08	297.26
55	2342.10	2100.40	23.42	21.00	339.60	304.56
56	2394.70	2151.60	23.95	21.52	347.23	311.98
57	2448.30	2203.80	24.48	22.04	355.00	319.55
58	2502.70	2256.90	25.03	22.57	362.89	327.25
59	2558.00	2311.10	25.58	23.11	370.91	335.11
60	2614.30	2366.30	26.14	23.66	379.07	343.11
61	2671.40	2422.60	26.71	24.23	387.35	351.28
62	2729.40	2479.90	27.29	24.80	395.76	359.59
63	2788.40	2538.30	27.88	25.38	404.32	368.05
64	2848.30	2597.80	28.48	25.98	413.00	376.68
65	2909.10	2658.50	29.09	26.59	421.82	385.48
66	2970.90	2720.30	29.71	27.20	430.78	394.44
67	3033.70	2783.30	30.34	27.83	439.89	403.58
68	3097.50	2847.50	30.98	28.48	449.14	412.89
69	3162.20	2913.00	31.62	29.13	458.52	422.39
70	3227.90	2979.70	32.28	29.80	468.05	432.06
71	3294.60	3047.80	32.95	30.48	477.72	441.93
72	3362.40	3117.10	33.62	31.17	487.55	451.98
73	3431.10	3187.90	34.31	31.88	497.51	462.25
74	3500.90	3260.10	35.01	32.60	507.63	472.71
75	3571.70	3333.70	35.72	33.34	517.90	483.39
76	3643.50	3408.90	36.44	34.09	528.31	494.29
77	3716.40	3485.70	37.16	34.86	538.88	505.43
78	3790.30	3564.10	37.90	35.64	549.59	516.79
79	3865.10	3644.30	38.65	36.44	560.44	528.42
80	3941.00	3726.40	39.41	37.26	571.45	540.33

RS-70 (R453A) PRESSURE & TEMPERATURE TABLE : GAUGE



TEMPERATURE (oC)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
	(kPag)	(kPag)	(barg)	(barg)	(psig)	(psig)
-60	-60.88	-75.60	-0.61	-0.76	-8.88	-11.02
-59	-58.53	-73.95	-0.59	-0.74	-8.54	-10.78
-58	-56.07	-72.21	-0.56	-0.72	-8.19	-10.53
-57	-53.50	-70.39	-0.53	-0.70	-7.81	-10.26
-56	-50.81	-68.47	-0.51	-0.68	-7.42	-9.98
-55	-48.00	-66.46	-0.48	-0.66	-7.01	-9.69
-54	-45.06	-64.34	-0.45	-0.64	-6.59	-9.38
-53	-42.00	-62.12	-0.42	-0.62	-6.14	-9.06
-52	-38.80	-59.80	-0.39	-0.60	-5.68	-8.73
-51	-35.46	-57.36	-0.35	-0.57	-5.20	-8.37
-50	-31.98	-54.81	-0.32	-0.55	-4.69	-8.00
-49	-28.36	-52.13	-0.28	-0.52	-4.17	-7.61
-48	-24.59	-49.34	-0.25	-0.49	-3.62	-7.21
-47	-20.66	-46.41	-0.21	-0.46	-3.05	-6.78
-46	-16.57	-43.36	-0.17	-0.43	-2.46	-6.34
-45	-12.31	-40.16	-0.12	-0.40	-1.84	-5.88
-44	-7.89	-36.83	-0.08	-0.37	-1.20	-5.40
-43	-3.30	-33.36	-0.03	-0.33	-0.53	-4.89
-42	1.47	-29.73	0.01	-0.30	0.16	-4.37
-41	6.43	-25.95	0.06	-0.26	0.88	-3.82
-40	11.57	-22.01	0.12	-0.22	1.62	-3.25
-39	16.90	-17.91	0.17	-0.18	2.40	-2.65
-38	22.43	-13.64	0.22	-0.14	3.20	-2.03
-37	28.16	-9.20	0.28	-0.09	4.03	-1.39
-36	34.10	-4.58	0.34	-0.05	4.89	-0.72
-35	40.26	0.23	0.40	0.00	5.78	-0.02
-34	46.63	5.22	0.47	0.05	6.71	0.70
-33	53.22	10.40	0.53	0.10	7.66	1.45
-32	60.04	15.78	0.60	0.16	8.65	2.23
-31	67.10	21.36	0.67	0.21	9.67	3.04
-30	74.39	27.16	0.74	0.27	10.73	3.88
-29	81.93	33.16	0.82	0.33	11.82	4.75
-28	89.72	39.39	0.90	0.39	12.95	5.66
-27	97.76	45.84	0.98	0.46	14.12	6.59
-26	106.07	52.52	1.06	0.53	15.33	7.56
-25	114.64	59.44	1.15	0.59	16.57	8.56
-24	123.48	66.60	1.23	0.67	17.85	9.60
-23	132.60	74.01	1.33	0.74	19.17	10.68
-22	142.01	81.67	1.42	0.82	20.54	11.79
-21	151.71	89.60	1.52	0.90	21.94	12.94
-20	161.70	97.78	1.62	0.98	23.39	14.12
-19	171.99	106.24	1.72	1.06	24.88	15.35
-18	182.59	114.98	1.83	1.15	26.42	16.62
-17	193.51	124.00	1.94	1.24	28.00	17.93
-16	204.74	133.31	2.05	1.33	29.63	19.27
-15	216.30	142.92	2.16	1.43	31.31	20.67
-14	228.19	152.83	2.28	1.53	33.03	22.11
-13	240.42	163.04	2.40	1.63	34.81	23.59
-12	253.00	173.58	2.53	1.74	36.63	25.11
-11	265.92	184.44	2.66	1.84	38.50	26.69
-10	279.20	195.62	2.79	1.96	40.43	28.31
-9	292.85	207.14	2.93	2.07	42.41	29.98
-8	306.87	219.01	3.07	2.19	44.44	31.70
-7	321.26	231.22	3.21	2.31	46.53	33.47
-6	336.03	243.78	3.36	2.44	48.67	35.29
-5	351.20	256.72	3.51	2.57	50.87	37.17
-4	366.76	270.02	3.67	2.70	53.13	39.10
-3	382.72	283.69	3.83	2.84	55.44	41.08
-2	399.09	297.75	3.99	2.98	57.81	43.12
-1	415.88	312.20	4.16	3.12	60.25	45.21
0	433.09	327.05	4.33	3.27	62.74	47.37
1	450.72	342.31	4.51	3.42	65.30	49.58
2	468.80	357.98	4.69	3.58	67.92	51.85
3	487.31	374.06	4.87	3.74	70.60	54.18
4	506.28	390.58	5.06	3.91	73.36	56.58
5	525.70	407.53	5.26	4.08	76.17	59.04
6	545.59	424.92	5.46	4.25	79.06	61.56
7	565.94	442.76	5.66	4.43	82.01	64.15
8	586.78	461.06	5.87	4.61	85.03	66.80
9	608.10	479.83	6.08	4.80	88.12	69.52
10	629.90	499.07	6.30	4.99	91.28	72.31

RS-70 (R453A) PRESSURE & TEMPERATURE TABLE : GAUGE



TEMPERATURE (oC)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)	BUBBLE PRESSURE (LIQUID)	DEW PRESSURE (VAPOUR)
	(kPag)	(kPag)	(barg)	(barg)	(psig)	(psig)
11	652.21	518.79	6.52	5.19	94.52	75.17
12	675.02	539.00	6.75	5.39	97.82	78.10
13	698.35	559.71	6.98	5.60	101.21	81.10
14	722.19	580.93	7.22	5.81	104.66	84.18
15	746.57	602.66	7.47	6.03	108.20	87.33
16	771.47	624.91	7.71	6.25	111.81	90.56
17	796.92	647.69	7.97	6.48	115.50	93.86
18	822.92	671.01	8.23	6.71	119.27	97.24
19	849.47	694.87	8.49	6.95	123.12	100.70
20	876.58	719.30	8.77	7.19	127.05	104.24
21	904.30	744.29	9.04	7.44	131.07	107.87
22	932.50	769.85	9.33	7.70	135.16	111.57
23	961.40	795.99	9.61	7.96	139.35	115.36
24	990.80	822.73	9.91	8.23	143.61	119.24
25	1020.90	850.06	10.21	8.50	147.98	123.20
26	1051.50	878.01	10.52	8.78	152.41	127.26
27	1082.80	906.60	10.83	9.07	156.95	131.40
28	1114.70	935.80	11.15	9.36	161.58	135.64
29	1147.20	965.60	11.47	9.66	166.29	139.96
30	1180.40	996.10	11.80	9.96	171.10	144.38
31	1214.20	1027.20	12.14	10.27	176.00	148.89
32	1248.70	1059.00	12.49	10.59	181.01	153.50
33	1283.80	1091.50	12.84	10.92	186.10	158.21
34	1319.60	1124.60	13.20	11.25	191.29	163.01
35	1356.10	1158.50	13.56	11.59	196.58	167.93
36	1393.30	1193.10	13.93	11.93	201.97	172.94
37	1431.10	1228.40	14.31	12.28	207.45	178.06
38	1469.70	1264.40	14.70	12.64	213.05	183.28
39	1509.00	1301.10	15.09	13.01	218.75	188.60
40	1549.00	1338.60	15.49	13.39	224.55	194.04
41	1589.70	1376.90	15.90	13.77	230.45	199.60
42	1631.20	1415.90	16.31	14.16	236.47	205.25
43	1673.40	1455.80	16.73	14.56	242.59	211.04
44	1716.30	1496.40	17.16	14.96	248.81	216.92
45	1760.00	1537.80	17.60	15.38	255.15	222.93
46	1804.50	1580.10	18.05	15.80	261.60	229.06
47	1849.80	1623.10	18.50	16.23	268.17	235.29
48	1895.90	1667.10	18.96	16.67	274.85	241.67
49	1942.70	1711.90	19.43	17.12	281.64	248.17
50	1990.40	1757.50	19.90	17.58	288.55	254.78
51	2038.80	1804.10	20.39	18.04	295.57	261.54
52	2088.10	1851.50	20.88	18.52	302.72	268.41
53	2138.30	1899.90	21.38	19.00	310.00	275.43
54	2189.20	1949.10	21.89	19.49	317.38	282.56
55	2241.10	1999.40	22.41	19.99	324.90	289.86
56	2293.70	2050.60	22.94	20.51	332.53	297.28
57	2347.30	2102.80	23.47	21.03	340.30	304.85
58	2401.70	2155.90	24.02	21.56	348.19	312.55
59	2457.00	2210.10	24.57	22.10	356.21	320.41
60	2513.30	2265.30	25.13	22.65	364.37	328.41
61	2570.40	2321.60	25.70	23.22	372.65	336.58
62	2628.40	2378.90	26.28	23.79	381.06	344.89
63	2687.40	2437.30	26.87	24.37	389.62	353.35
64	2747.30	2496.80	27.47	24.97	398.30	361.98
65	2808.10	2557.50	28.08	25.58	407.12	370.78
66	2869.90	2619.30	28.70	26.19	416.08	379.74
67	2932.70	2682.30	29.33	26.82	425.19	388.88
68	2996.50	2746.50	29.97	27.47	434.44	398.19
69	3061.20	2812.00	30.61	28.12	443.82	407.69
70	3126.90	2878.70	31.27	28.79	453.35	417.36
71	3193.60	2946.80	31.94	29.47	463.02	427.23
72	3261.40	3016.10	32.61	30.16	472.85	437.28
73	3330.10	3086.90	33.30	30.87	482.81	447.55
74	3399.90	3159.10	34.00	31.59	492.93	458.01
75	3470.70	3232.70	34.71	32.33	503.20	468.69
76	3542.50	3307.90	35.43	33.08	513.61	479.59
77	3615.40	3384.70	36.15	33.85	524.18	490.73
78	3689.30	3463.10	36.89	34.63	534.89	502.09
79	3764.10	3543.30	37.64	35.43	545.74	513.72
80	3840.00	3625.40	38.40	36.25	556.75	525.63