

**SPX****ROBINAIR**

# Pressure-Temperature Chart

**Refrigerant Temperature, °C**

BAR	R-12	R-22	R-134a	R-408A	R-502	R-507
0	-30	-41	-26	-43	-46	-47
.05	-27	-38	-23	-41	-43	-44
.28	-24	-36	-21	-39	-40	-42
.42	-22	-33	-18	-37	-38	-39
.56	-19	-31	-16	-33	-36	-38
.69	-17	-29	-14	-32	-34	-35
.83	-15	-27	-12	-30	-32	-34
.97	-13	-26	-11	-29	-30	-32
1.11	-11	-24	-9	-27	-28	-30
1.25	-9	-22	-7	-24	-27	-29
1.38	-8	-21	-6	-23	-25	-27
1.52	-6	-19	-4	-22	-24	-26
1.66	-4	-18	-3	-21	-22	-25
1.80	-3	-17	-1	-19	-21	-23
1.94	-2	-15	0	-18	-19	-22
2.07	0	-14	2	-17	-18	-21
2.21	1	-13	3	-16	-17	-20
2.35	3	-12	4	-14	-16	-18
2.49	4	-11	5	-13	-15	-17
2.63	5	-9	6	-12	-14	-16
2.76	6	-8	7	-11	-13	-15
2.90	7	-7	8	-10	-12	-14
3.04	8	-6	9	-9	-11	-13
3.18	9	-5	10	-8	-10	-12
3.23	11	-4	11	-7	-9	-11
3.45	12	-3	12	-6	-8	-10
3.59	13	-2	13	-5	-7	-10
3.83	14	-1	14	-4	-6	-9
4.01	15	-5	15	-3	-5	-8
4.14	16	0	16	-2	-4	-7
4.28	17	1	17	-1	-3	-6
4.32	18	2	18	0	-3	-5
4.42	18	3	18	1	-2	-4
4.56	19	3	19	2	-1	-4
4.70	20	4	20	3	0	-3
4.83	21	5	21	4	5	-2
4.97	22	6	22	5	1	-2
5.11	22	7	22	6	2	-1
5.25	23	7	23	5	2	0
5.39	24	8	24	4	3	1

BAR	R-12	R-22	R-134a	R-408A	R-502	R-507
5.52	25	9	26	6	4	1
5.87	27	11	27	7	6	3
6.21	28	12	28	8	8	5
6.56	29	13	29	10	9	6
6.90	32	15	31	11	11	8
7.25	34	17	32	13	12	9
7.59	36	18	34	15	14	10
7.94	37	19	36	16	15	12
8.28	39	21	37	17	17	13
8.63	40	22	38	18	18	14
8.97	42	23	39	19	19	16
9.32	43	24	41	20	21	17
9.66	44	26	42	22	22	18
10.01	46	27	43	24	23	19
10.35	47	28	44	25	24	20
10.70	48	29	46	26	25	21
11.04	49	31	47	27	27	23
11.39	51	32	48	28	28	24
11.73	52	33	49	29	28	25
12.08	53	33	50	30	29	26
12.41	54	34	51	31	31	27
12.77	56	36	52	32	32	28
13.11	57	36	53	33	33	29
13.46	58	37	53	34	34	29
13.80	59	38	55	35	35	30
14.15	60	39	56	36	36	31
14.49	61	41	57	37	37	32
14.84	62	41	58	38	38	33
15.18	63	42	58	39	38	34
15.53	64	43	59	40	39	35
16.22	66	45	61	41	41	36
16.91	68	46	63	42	43	38
17.60	69	48	64	43	44	40
18.29	71	49	66	44	46	41
18.98	73	51	67	46	48	43
19.67	74	53	68	48	49	44
20.36	76	54	70	49	51	45
21.05	78	56	72	51	53	47
21.74	79	57	73	53	54	48
22.43	81	58	75	54	55	49
23.12	83	59	76	55	57	51
23.81	84	61	77	56	58	52
24.50	86	63	78	57	59	53
25.19	88	64	79	58	61	54
25.88	89	65	81	59	62	55
26.57	90	67	82	60	63	56
27.26	91	68	83	61	64	57
27.95	92	69	84	63	65	59
31.05	98	73	86	N/A	70	63
34.50	103	78	94	N/A	75	68

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## Pressure-Temperature Chart

Refrigerant Temperature, °C

BAR	R-401A	R-401B	R-402A	R-402B	R-404A	R-500
0	-26	-28	-46	-44	-46	-34
.05	-24	-26	-44	-42	-43	-32
.28	-21	-23	-41	-39	-41	-29
.42	-19	-21	-39	-37	-38	-26
.56	-17	-18	-37	-34	-36	-23
.69	-14	-17	-35	-33	-34	-21
.83	-13	-14	-33	-31	-33	-19
.97	-11	-13	-32	-29	-31	-18
1.11	-9	-11	-30	-28	-29	-15
1.25	-7	-9	-28	-26	-28	-13
1.38	-6	-8	-26	-24	-26	-12
1.52	-4	-6	-26	-23	-24	-11
1.66	-3	-5	-24	-22	-23	-9
1.80	-2	-3	-23	-21	-22	-8
1.94	0	-2	-21	-19	-21	-7
2.07	1	-1	-21	-18	-19	-4
2.21	2	0	-19	-18	-18	-3
2.35	3	1	-18	-17	-17	-2
2.49	4	3	-18	-16	-16	-1
2.63	6	3	-17	-14	-15	1
2.76	7	5	-16	-14	-14	2
2.90	8	6	-15	-13	-13	3
3.04	9	7	-14	-12	-12	4
3.18	10	8	-13	-11	-11	5
3.32	11	9	-12	-10	-10	6
3.45	12	10	-12	-9	-9	7
3.59	13	11	-11	-8	-8	8
3.73	14	12	-10	-7	-7	9
3.87	15	12	-9	-6	-7	10
4.01	16	13	-8	-6	-6	11
4.14	17	13	-7	-4	-6	12
4.28	17	14	-6	-4	-5	12
4.42	18	16	-6	-3	-4	13
4.56	19	16	-5	-2	-3	14
4.70	20	17	-4	-2	-3	15
4.83	21	18	-3	-1	-2	16
4.97	22	18	-3	0	-1	17
5.11	22	19	-2	1	0	17
5.25	23	20	-1	1	1	18
5.39	24	21	-1	2	1	19
5.52	24	21	0	3	2	21
5.87	26	23	2	4	2	22
6.21	27	24	3	6	5	23
6.56	29	26	5	8	7	24
6.90	31	28	6	9	8	26

BAR	R-401A	R-401B	R-402A	R-402B	R-404A	R-500
7.25	32	29	8	11	9	28
7.59	34	31	9	12	11	29
7.94	36	32	10	13	12	30
8.28	37	34	12	14	13	31
8.63	38	35	13	16	15	32
8.97	39	36	14	17	16	35
9.32	41	37	16	18	17	36
9.66	42	38	17	20	18	37
10.01	43	40	18	21	19	38
10.35	44	41	19	22	21	40
10.70	46	42	20	23	22	42
11.04	47	43	21	24	23	44
11.39	48	44	22	25	24	43
11.73	49	45	23	26	25	44
12.08	50	46	24	27	26	45
12.41	51	48	25	28	27	47
12.77	52	49	26	29	28	48
13.11	53	50	27	30	29	49
13.46	54	51	28	31	30	50
13.80	55	52	29	32	31	51
14.15	56	52	30	33	32	52
14.49	57	54	31	33	33	53
14.84	58	55	32	34	33	54
15.18	59	56	33	36	34	55
15.53	60	56	33	36	35	56
16.22	61	58	35	38	37	58
16.91	63	59	37	40	38	60
17.60	65	61	38	41	39	61
18.29	66	63	39	43	41	63
18.98	68	64	41	44	43	64
19.67	69	66	42	46	44	66
20.36	71	67	43	47	46	68
21.05	72	69	45	48	48	70
21.74	73	70	47	49	48	71
22.43	75	71	48	51	50	72
23.12	76	73	49	52	51	73
23.81	78	74	50	53	53	74
24.50	79	76	52	54	54	76
25.19	80	77	53	56	54	78
25.88	81	78	54	57	56	79
26.57	83	79	56	58	57	80
27.26	84	80	56	60	58	81
27.95	85	81	57	61	59	83
31.05	90	86	62	66	64	88
34.50	95	91	67	71	69	93

\*Dew point temperatures for saturated vapor

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