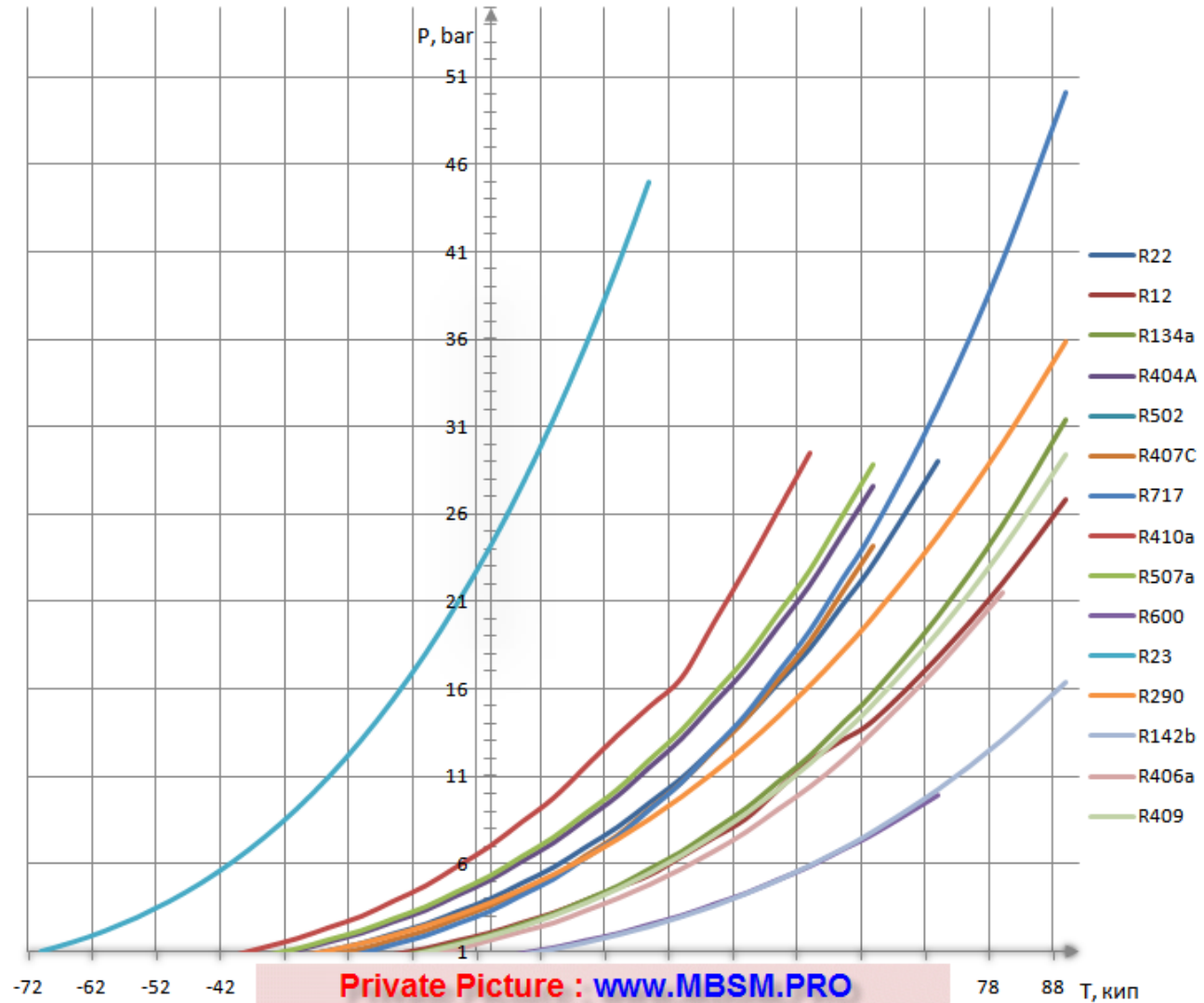


Refrigerant High & Low Pressure Temperature Chart ,R22 R410A ,R12 ,R134A ,R401A ,R409A ,R502 ,R404A ,R507A ,R408A ,R402A ,R600A

Category: Non classé, Solutions

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Temperature and pressure charts for

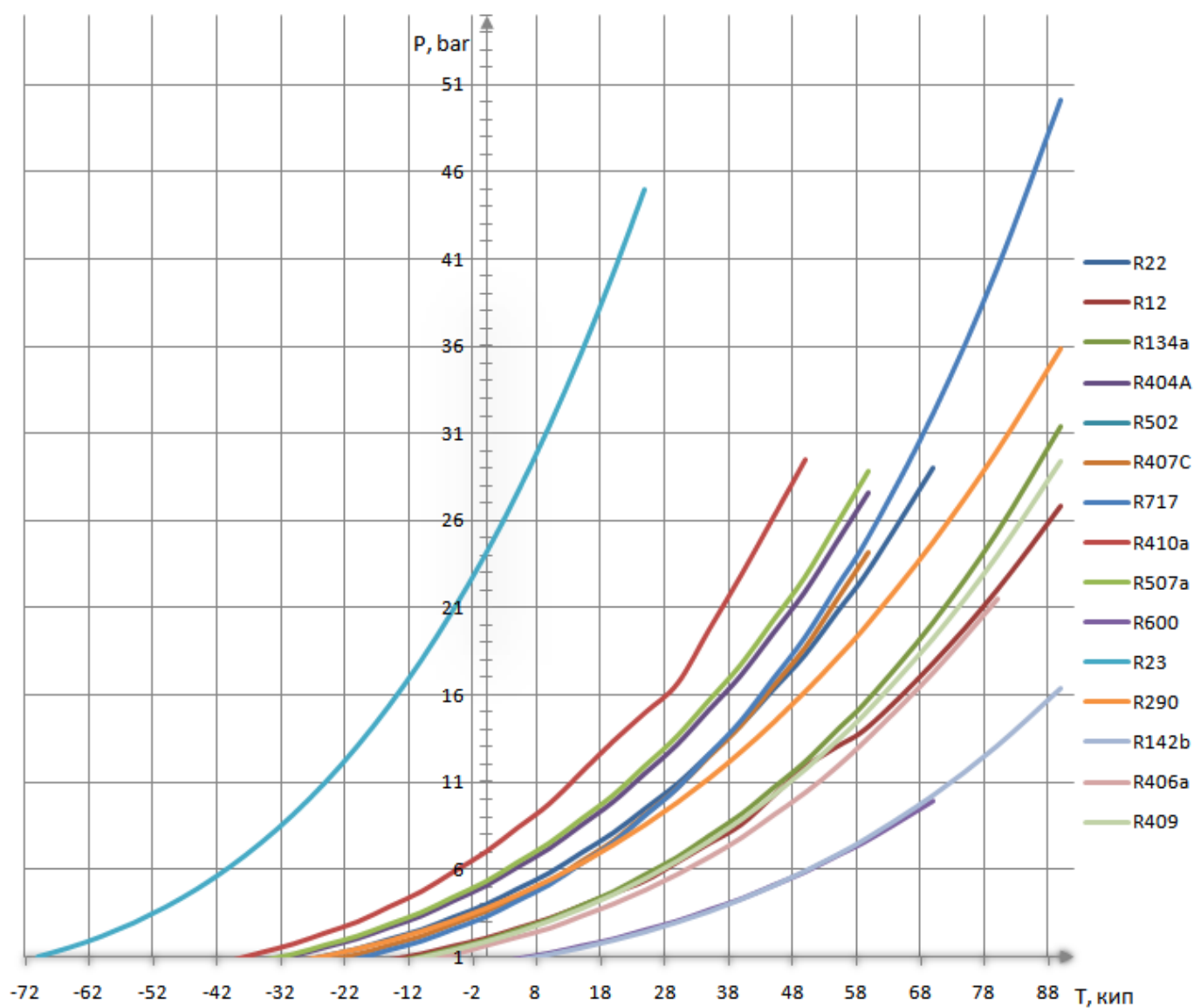
- R22
- R410A
- R12
- R134A
- R401A
- R409A
- R502
- R404A
- R507A
- R408A
- R402A

Temperature, °C:

Pressure, bar:

	R134a		R507		R410A		R404A		R404A		R407C		R407C			
	Saturated		Saturated		Saturated		Bubble		Dew		Bubble		Dew			
°C	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi	kPa	psi		
-40	4	0.6	-50	-7.3	57	5.4	73	10.7	34	4.9	30	4.3	19	2.7	-16	-2.3
-38	14	2	-45	-6.5	50	7.3	90	13	47	6.8	42	5.1	30	4.4	-7	-1
-36	25	3.6	-38	-5.6	64	9.3	108	15.6	60	8.7	55	8	43	6.2	3	0.5
-34	37	5.3	-32	-4.6	79	11.4	126	18.3	75	10.8	69	10.1	56	8.2	14	2
-32	49	7.1	-25	-3.6	95	13.7	147	21.2	90	13	85	12.3	71	10.2	25	5.6
-30	63	9.1	-17	-2.5	111	16.2	168	24.4	106	15.4	101	14.6	86	12.4	37	5.4
-28	77	11.1	-9	-1.3	129	18.8	191	27.7	124	18	118	17.1	102	14.8	51	7.3
-26	92	13.4	0	0	148	21.5	215	31.2	143	20.7	137	19.8	119	17.3	65	9.4
-24	108	15.7	10	1.4	169	24.5	241	35	162	23.6	156	22.6	138	20	80	11.6
-22	126	18.2	20	2.9	190	27.6	269	39	183	26.6	177	25.6	158	22.9	96	13.9
-20	144	20.9	31	4.6	213	30.9	298	43.2	206	29.8	199	28.8	179	25.9	113	16.4
-18	163	23.7	43	6.3	237	34.4	329	47.7	229	33.3	222	32.2	201	29.1	132	19.1
-16	184	26.7	56	8.1	263	38.1	362	52.4	254	36.9	247	35.8	224	32.5	152	22
-14	206	29.9	69	10.1	290	42	396	57.5	281	40.7	273	39.6	249	36.1	172	25
-12	229	33.2	84	12.2	318	46.1	433	62.8	308	44.7	300	43.6	276	40	195	28.2
-10	253	36.8	99	14.4	348	50.5	471	68.4	338	49	329	47.8	303	44	218	31.7
-8	279	40.5	116	16.8	379	55	512	74.2	369	53.5	360	52.2	333	48.3	244	35.3
-6	306	44.4	133	19.3	413	59.9	555	80.5	401	58.2	392	56.9	364	52.7	270	39.2
-4	335	48.6	151	21.9	448	64.9	600	87	435	63.1	426	61.8	396	57.5	298	43.3
-2	365	52.9	171	24.8	484	70.2	647	93.8	471	68.3	462	67	430	62.4	328	47.6
0	397	57.5	191	27.8	523	75.8	697	101.1	509	73.8	499	72.4	467	67.7	359	52.1
2	430	62.3	213	30.9	563	81.6	749	108.6	548	79.5	538	78.1	504	73.2	392	56.9
4	465	67.4	236	34.3	605	87.8	804	116.5	590	85.5	579	84	544	78.9	427	62
6	501	72.7	261	37.8	649	94.2	861	124.8	633	91.8	622	90.3	586	85	464	67.3
8	540	78.3	286	41.5	696	1.9	921	133.5	678	98.4	667	96.8	629	91.3	503	72.9
10	580	84.1	313	45.4	744	107.9	983	142.6	726	105.3	714	103.6	675	97.9	544	78.8
12	621	90.1	342	49.6	794	115.2	1049	152.2	775	112.4	764	1.8	723	104.8	586	85
14	665	96.5	372	53.9	847	122.9	1118	162.1	827	119.9	815	118.2	773	112.1	631	91.5
16	711	103.1	403	58.4	902	1.9	1189	172.5	881	127.8	869	126	825	119.7	678	98.4
18	759	1.1	436	63.2	960	139.2	1264	183.3	937	135.9	925	134.1	879	127.6	727	105.5
20	809	117.3	470	68.2	1020	147.9	1342	194.6	996	144.4	983	142.6	936	135.8	779	113
22	861	124.8	507	73.5	1082	156.9	1423	206.4	1057	153.3	1044	151.4	995	144.4	833	1.8
24	915	132.7	544	79	1147	166.3	1507	218.6	1120	162.5	1107	1.6	1057	153.3	889	129
26	971	1.8	584	84.7	1214	176.1	1595	231.4	1187	172.1	1173	1.2	1121	162.7	949	137.6
28	1030	149.3	626	90.7	1284	186.3	1687	244.7	1255	182.1	1242	1.1	1188	172.3	1010	146.5
30	1091	158.2	669	97	1357	196.9	1782	258.5	1327	192.5	1313	1.4	1258	182.4	1075	155.9
32	1154	167.4	714	103.6	1433	207.9	1881	272.9	1401	203.2	1387	201.2	1330	192.9	1142	165.6
34	1220	176.9	761	1.4	1512	219.3	1984	287.8	1479	214.4	1464	212.4	1405	203.8	1212	175.8
36	1288	186.8	810	117.6	1594	231.2	2091	303.3	1559	226.1	1544	224	1483	215.1	1285	186.3
38	1359	197.1	862	125	1679	243.5	2202	319.4	1642	238.1	1627	236	1564	226.8	1361	197.4
40	1432	207.7	915	132.7	1767	256.2	2317	336.1	1728	2.6	1713	248.5	1648	239	1440	208.9
42	1508	218.8	971	1.8	1858	269.5	2437	353.5	1818	263.6	1803	261.5	1735	251.6	1522	2.8
44	1587	2.2	1029	149.2	1953	283.2	2561	371.4	1910	277.1	1895	274.9	1825	264.7	1608	233.2
46	1669	242.1	1089	157.9	2051	297.5	2690	3.1	2006	291	1991	288.8	1918	278.2	1697	246.2
48	1754	254.4	1152	167	2153	312.2	2823	409.5	2106	305.5	2091	303.3	2015	292.2	1790	259.6
50	1841	267.1	1217	176.5	2258	327.5	2962	429.5	2209	3.4	2194	318.3	2115	306.7	1886	273.6
52	1932	2.2	1284	186.2	2367	343.3	3105	4.3	2316	335.9	2301	333.8	2218	321.7	1987	288.1
54	2026	293.8	1354	196.4	2480	359.8	3254	471.9	2427	352	2412	349.9	2325	337.2	2091	303.2
56	2123	307.9	1427	207	2598	376.8	3408	494.2	2542	368.6	2527	366.5	2436	353.3	2199	318.9
58	2223	322.4	1502	217.9	2719	394.4	3567	517.4	2660	385.9	2646	383.8	2550	369.8	2311	335.2
60	2326	337.4	1580	229.2	2845	412.7	3733	541.4	2783	403.7	2770	401.7	2668	387	2427	352.1
62	2433	352.9	1661	241	2976	431.6	3905	566.3	2911	422.2	2898	4.3	2790	404.6	2548	369.6
64	2543	368.9	1745	253.2	3112	451.3	4083	592.2	3043	441.4	3031	439.6	2916	422.9	2674	387.8
66	2657	385.4	1832	265.8	3253	471.8	4268	619	3180	461.3	3169	459.6	3045	441.7	2804	406.8
68	2775	402.4	1922	278.8	3400	493.1	4460	646.9	3323	482	3312	4.4	3179	461.1	2940	426.4
70	2896	420	2015	292.3	3554	515.5	4660	675.9	3471	503.4	3463	502.2	3318	481.2	3081	446.9
72	3021	438.2	2112	306.3	-	-	-	-	3625	525.8	3622	525.4	3460	501.8	3228	466.1
74	3150	456.9	2212	3.8	-	-	-	-	-	-	-	-	3607	523.1	3380	4.2
76	3283	476.2	2315	335.7	-	-	-	-	-	-	-	-	3758	545	3539	513.3
78	3421	496.1	2422	351.2	-	-	-	-	-	-	-	-	3913	567.5	3705	537.4
80	3562	516.7	2532	367.2	-	-	-	-	-	-	-	-	4072	5.7	3879	562.7

t °C	R22	R12	R134	R404a	R502	R407c	R717	R410a	R507a	R600	R23	R290	R142b	R406a	R409A
-70	-0.81	-0.88	-0.92	-0.74	-0.72	-	-0.89	-0.65	-0.72	-	0.94	-	-	-	-
-65	-0.74	-0.83	-0.88	-0.63	-0.62	-	-0.84	-0.51	-0.61	-	1.48	-	-	-0.94	-
-60	-0.63	-0.77	-0.84	-0.52	-0.51	-0.74	-0.78	-0.36	-0.50	-	2.12	-	-	-0.9	-
-55	-0.49	-0.69	-0.77	-0.35	-0.35	-0.63	-0.69	-0.22	-0.32	-	2.89	-	-	-0.83	-
-50	-0.35	-0.61	-0.70	-0.18	-0.19	-0.52	-0.59	0.08	-0.14	-	3.8	-	-	-0.8	-
-45	-0.2	-0.49	-0.59	0.11	0.14	-0.34	-0.44	0.25	-0.02	-	4.86	-	-	-0.66	-
-40	0.05	-0.36	-0.48	0.32	0.30	-0.16	-0.28	0.73	0.39	-0.71	6.09	0.12	-	-0.62	-
-35	0.25	-0.18	-0.32	0.68	0.64	-0.06	-0.24	1.22	0.77	-0.62	7.51	0.37	-	-0.4	-
-30	0.64	0.00	-0.15	1.04	0.98	0.37	0.19	1.71	1.15	-0.53	9.12	0.68	-	-0.2	-
-25	1.05	0.26	-0.06	1.53	1.45	0.75	0.55	2.35	1.67	-0.38	10.96	1.03	-	-0.1	0.06
-20	1.46	0.51	0.33	2.02	1.91	1.12	0.90	2.98	2.18	-0.27	13.04	1.44	-	0.2	0.32
-15	2.01	0.85	0.67	2.67	2.53	1.64	1.41	3.85	2.86	-0.18	15.37	1.91	-	0.4	0.62
-10	2.55	1.19	1.01	3.32	3.14	2.16	1.91	4.72	3.54	0.09	17.96	2.45	0	0.8	0.98
-5	3.27	1.64	1.47	4.18	3.94	2.87	2.6	5.85	4.42	0.33	20.85	3.06	0.22	1.1	1.4
0	3.98	2.08	1.93	5.03	4.73	3.57	3.29	6.98	5.29	0.57	24	3.75	0.47	1.6	1.88
5	4.89	2.66	2.54	6.11	5.73	4.43	4.22	8.37	6.40	0.89	27.54	4.52	0.75	2.1	2.43
10	5.80	3.23	3.14	7.18	6.73	5.28	5.15	9.76	7.51	1.21	31.37	5.38	1.08	2.6	3.07
15	6.95	3.95	3.93	8.52	7.97	6.46	6.36	11.56	8.88	1.62	35.56	6.33	1.46	3.3	3.78
20	8.10	4.67	4.72	9.86	9.20	7.63	7.57	13.35	10.25	2.02	40.11	7.39	1.9	4.0	4.59
25	9.5	5.39	5.71	11.5	10.70	9.14									



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Refrigerant Temperature / Pressure Chart
 Red numbers = inches Hg Black numbers = psig

Temp

Pressure PSI

(°F)	R-11	R-12	R-22	R-123	R-134A	R-500	R-502
-100	29.8	27.0	25.0	29.9	27.8	26.4	25.3
-90	29.7	25.7	23.0	29.8	26.9	24.9	20.6
-80	29.6	24.1	20.2	29.7	25.6	22.9	17.2
-70	29.4	21.8	16.6	29.6	23.8	20.3	12.8
-60	29.2	19.0	12.0	29.5	21.5	17.0	7.2
-50	28.9	15.4	6.2	29.2	18.5	12.8	0.2
-40	28.4	11.0	0.5	28.9	14.7	7.6	4.1
-30	27.8	5.4	4.9	28.5	9.8	1.2	9.2
-20	27.0	0.6	10.2	27.8	3.8	3.2	15.3
-10	26.0	4.4	16.4	27.0	1.8	7.8	22.6
0	24.7	9.2	24.0	26.0	6.3	13.3	31.1
10	23.1	14.6	32.8	24.7	11.6	19.7	41.0
20	21.1	21.0	43.0	23.0	18.0	27.2	52.4
30	18.6	28.4	54.9	20.8	25.6	36.0	65.6
40	15.6	37.0	68.5	18.2	34.5	46.0	80.5
50	12.0	46.7	84.0	15.0	44.9	57.5	97.4
60	7.8	57.7	101.3	11.2	56.9	70.6	116.4
70	2.8	70.2	121.4	6.6	70.7	85.3	137.6
80	1.5	84.2	143.6	1.1	86.4	101.9	161.2
90	4.9	99.8	168.4	2.6	104.2	120.4	187.4
100	8.8	117.2	195.9	6.3	124.3	141.1	216.2
110	13.1	136.4	226.4	10.5	146.3	164.0	247.9
120	18.3	157.7	259.9	15.4	171.9	189.2	282.7
130	24.0	181.0	296.8	21.0	199.4	217.0	320.8
140	30.4	206.6	337.2	27.3	230.5	247.4	362.6
150	37.7	234.4	381.5	34.5	264.4	280.7	408.4

Private Picture : www.MBSM.PRO