

# ECO-Freeze Natural Ecologic Refrigerants - Resources

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## PRESSURE CHART OF R404 & R22 vs. ECO22

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Temperature	ECO 22	R22	R404
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°C	°F	Kpa	Psi	Kpa	Psi	Kpa	Psi
-40	-40	48	7	5	1	30	4.3
-38	-36	61	9	15	2	42	6.1
-36	-33	74	11	26	4	55	8.0
-34	-29	87	13	37	5	70	10.0
-32	-26	101	15	50	7	85	12.3
-30	-22	117	17	63	9	101	14.6
-28	-18	133	19	78	11	118	17.1
-26	-15	149	22	93	14	137	19.8
-24	-11	168	24	109	16	156	22.6
-22	-8	187	27	126	18	177	25.6
-20	-4	207	30	145	21	199	28.8
-18	0	228	33	164	24	222	32.2
-16	3	250	36	185	27	247	35.8
-14	7	274	40	207	30	273	39.5
-12	10	298	43	230	33	300	43.5
-10	14	324	47	252	37	329	47.7
-8	18	351	51	280	41	360	52.2
-6	21	380	55	307	45	392	56.8
-4	25	409	60	336	49	426	61.7
-2	28	441	64	366	53	462	66.9
0	32	473	69	397	58	499	72.4
2	36	503	74	431	63	538	78.0
4	39	541	79	465	68	579	84.0
6	43	578	84	502	73	622	90.2
8	46	616	90	540	79	667	96.8
10	50	656	96	580	85	714	103.6
12	54	698	102	622	91	764	110.7
14	57	741	108	666	97	815	118.2
16	61	786	115	712	104	869	126.0
18	64	833	121	760	111	925	134.1
20	68	881	128	810	118	983	142.5
22	72	932	136	862	126	1044	151.3
24	75	984	143	916	133	1107	160.5
26	79	1038	151	972	142	1173	170.1
28	82	1092	159	1031	150	1242	180.1
30	86	1150	168	1092	159	1313	190.4
32	90	1209	176	1155	168	1387	201.1
34	93	1272	185	1221	178	1464	212.3
36	97	1337	195	1289	188	1544	223.9
38	100	1403	205	1360	198	1627	235.9
40	104	1472	215	1433	209	1713	248.4
42	108	1543	225	1509	220	1803	261.4
44	111	1615	235	1588	232	1895	274.8
46	115	1689	246	1670	243	1992	288.7
48	118	1768	258	1754	256	2091	303.2
50	122	1848	269	1842	269	2194	318.2
52	126	1929	281	1932	282	2301	333.7
54	129	2013	293	2026	295	2412	349.8
56	133	2100	306	2123	309	2527	366.4

## PRESSURE CHART OF R410a & R32 vs. ECO32

Temperature	ECO32	R410A	R32
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°C	°F	Kpa	Psi	Kpa	Psi	Kpa	Psi
-40	-40	94	14.00	74	10.66	76	11.04
-38	-36	108	15.70	90	13.05	93	13.45
-36	-33	120	17.60	108	15.60	111	16.05
-34	-29	141	20.50	126	18.33	130	18.82
-32	-26	159	23.10	147	21.25	150	21.79
-30	-22	177	25.70	168	24.37	172	24.96
-28	-18	197	28.60	191	27.69	195	28.34
-26	-15	218	31.60	215	31.22	220	31.94
-24	-11	239	34.70	241	34.98	247	35.77
-22	-8	262	38.00	269	38.98	275	39.83
-20	-4	286	41.50	298	43.21	304	44.15
-18	0	311	45.10	329	47.69	336	48.72
-16	3	337	48.90	362	52.44	369	53.56
-14	7	365	52.90	396	57.46	405	58.68
-12	10	394	57.10	433	62.76	442	64.09
-10	14	424	61.50	471	68.35	481	69.79
-8	18	455	66.10	512	74.24	523	75.81
-6	21	488	70.80	555	80.44	567	82.15
-4	25	523	75.80	600	86.97	613	88.82
-2	28	558	81.00	647	93.83	661	95.84
0	32	595	86.40	697	101.03	712	103.21
2	36	634	92.00	749	108.59	765	110.95
4	39	675	97.80	804	116.51	821	119.07
6	43	716	103.90	861	124.82	880	127.58
8	46	760	110.20	921	133.52	941	136.49
10	50	805	116.80	984	142.61	1006	145.81
12	54	852	123.60	1049	152.12	1073	155.57
14	57	901	130.70	1118	162.05	1143	165.76
16	61	951	138.00	1189	172.43	1217	176.41
18	64	1004	145.60	1264	183.25	1293	187.53
20	68	1058	153.40	1342	194.55	1373	199.13
22	72	1114	161.60	1423	206.31	1457	211.21
24	75	1172	170.00	1507	218.57	1544	223.81
26	79	1232	178.70	1595	231.33	1634	236.93
28	82	1294	187.70	1687	244.62	1728	250.59
30	86	1358	197.00	1782	258.42	1826	264.80
32	90	1425	206.60	1881	272.79	1928	279.57
34	93	1493	216.50	1984	287.71	2034	294.93
36	97	1564	226.80	2091	303.21	2144	310.89
38	100	1636	237.30	2202	319.32	2258	327.47
40	104	1712	248.20	2317	336.02	2377	344.67
42	108	1789	259.50	2437	353.37	2500	362.51
44	111	1869	271.00	2561	371.36	2628	381.05
46	115	1951	283.00	2690	390.02	2760	400.24
48	118	2036	295.30	2823	409.36	2898	420.15
50	122	2123	307.90	2962	429.42	3040	440.15
52	126	2213	320.90	3105	450.21	3187	462.17
54	129	2305	334.30	3254	471.77	3340	484.33
56	133	3400	348.10	3408	494.12	3498	507.27

## PRESSURE CHART OF R12 & R134a vs. ECO134

Temperature		ECO134		R12		R134 a	
°C	°F	Kpa	Psi	Kpa	Psi	Kpa	Psi
-40	-40	-6.4	-0.9	-35.5	-5.2	-47.5	-6.9
-38	-36	1.3	0.2	-29.2	-4.2	-41.9	-6.1
-36	-33	9.5	1.4	-22.5	-3.3	-35.8	-5.2
-34	-29	18.3	2.6	-15.3	-2.2	-29.2	-4.2
-32	-26	27.5	4.0	-7.6	-1.1	-22.1	-3.2
-30	-22	37.3	5.4	0.6	0.1	-14.4	-2.1
-28	-18	47.7	6.9	9.4	1.4	-6.2	-0.9
-26	-15	58.7	8.5	18.8	2.7	2.7	0.4
-24	-11	70.4	10.2	28.9	4.2	12.3	1.8
-22	-8	82.6	12.0	39.5	5.7	22.5	3.3
-20	-4	95.6	13.9	50.9	7.4	33.5	4.9
-18	0	109.3	15.9	62.9	9.1	45.2	6.6
-16	3	123.7	17.9	75.7	11.0	57.8	8.4
-14	7	138.8	20.1	89.3	13.0	71.2	10.3
-12	10	154.7	22.5	103.6	15.0	85.5	12.4
-10	14	171.5	24.9	118.8	17.2	100.7	14.6
-8	18	189.0	27.4	134.8	19.6	116.8	17.0
-6	21	207.5	30.1	151.7	22.0	134.0	19.4
-4	25	226.8	32.9	169.5	24.6	152.2	22.1
-2	28	247.0	35.9	188.3	27.3	171.5	24.9
0	32	268.2	38.9	208.0	30.2	192.0	27.9
2	36	290.3	42.1	228.8	33.2	213.6	31.0
4	39	313.5	45.5	250.6	36.4	236.5	34.3
6	43	337.6	49.0	273.4	39.7	260.7	37.8
8	46	362.8	52.7	297.4	43.2	286.1	41.5
10	50	389.1	56.5	322.5	46.8	313.0	45.4
12	54	416.5	60.5	348.8	50.6	341.3	49.5
14	57	445.1	64.6	376.3	54.6	371.0	53.8
16	61	474.8	68.9	405.1	58.8	402.3	58.4
18	64	505.7	73.4	435.1	63.2	435.1	63.2
20	68	537.9	78.1	466.5	67.7	469.6	68.2
22	72	571.3	82.9	499.2	72.4	505.7	73.4
24	75	605.9	87.9	533.2	77.4	543.6	78.9
26	79	641.9	93.2	568.7	82.5	583.2	84.6
28	82	679.3	98.6	605.6	87.9	624.7	90.7
30	86	718.0	104.2	644.0	93.5	668.0	97.0
32	90	758.1	110.0	683.9	99.3	713.3	103.5
34	93	799.6	116.1	725.4	105.3	760.6	110.4
36	97	842.6	122.3	766.4	111.5	809.9	117.5
38	100	887.1	128.8	813.1	118.0	861.3	125.0
40	104	933.1	135.4	859.4	124.7	914.9	132.8
42	108	980.7	142.3	907.3	131.7	970.7	140.9
44	111	1029.8	149.5	957.0	138.9	1028.7	149.3
46	115	1080.6	156.8	1008.4	146.4	1089.1	158.1
48	118	1132.9	164.4	1061.7	154.1	1151.8	167.2
50	122	1187.0	172.3	1116.7	162.1	1216.9	176.6
52	126	1242.7	180.4	1173.5	170.3	1284.6	186.4
54	129	1300.1	188.7	1232.3	178.8	1354.7	196.6
56	133	1359.3	197.3	1292.9	187.6	1427.5	207.2

