

Minus 10\*

Minus 30\*

Minus 40\*

Minus 50\*

Minus 60\*

HC32\*

	R600a		R134a		R290/R600a		R22	R290		R290/R170		R290/R170		R410A		
ODP	0		0		0		0.04	0		0		0		0		0
GWP	3		1300		3		1700	3		3		3		1890		3
°C	kPag	psig	kPag	psig	kPag	psig	kPag	psig	kPag	psig	kPag	psig	kPag	psig	kPag	psig
	Shaded figures under psig are inches of Mercury															
-70	-97	-28.5			-84	-24.7	-81	-23.9	-77	-22.7	-67	-19.7	-48	-14	-66	-18
-66	-95	-28.1			-79	-23.3	-75	-22.2	-71	-20.8	-59	-17.3	-36	-12.4	-56	-16.5
-62	-93	-27.5			-73	-21.7	-68	-20.1	-63	-18.6	-49	-14.5	-23	-6.7	-44	-13
-58	-91	-26.8			-67	-19.7	-59	-17.6	-54	-15.9	-38	-11.1	-7	-2.2	-30	-8.7
-54	-88	-26			-59	-17.4	-49	-14.5	-43	-12.8	-24	-7.2	10	1.5	-13	-3.4
-50	-85	-25			-49	-14.6	-37	-10.9	-31	-9.1	-9	-2.8	31	4.4	8	1
-46	-80	-23.7	-64	-19	-39	-11.4	-22	-6.6	-16	-4.8	9	1.2	53	7.8	31	5
-42	-75	-22.3	-55	-16.3	-26	-7.7	-6	-1.6	0.5	0.1	29	4.2	79	11.5	59	9
-38	-70	-20.5	-44	-13.1	-11	-3.4	14	2	20	2.9	52	7.5	108	15.7	91	13
-34	-63	-18.5	-32	-9.4	5	0.7	37	5.3	42	6	78	11	141	20.5	127	19
-30	-55	-16.2	-17	-5	24	3.5	63	9.1	67	9.6	107	16	177	25.7	169	25
-28	-50	-14.8	-9	-2.5	34	5	77	11	80	12	123	18	197	28.6	192	28
-26	-45	-13.4	0.3	0.1	45	6.6	92	13	95	14	140	20	218	31.6	216	31
-24	-40	-11.9	10	1.4	57	8.3	108	16	110	16	158	23	239	34.7	242	35
-22	-35	-10.3	20	2.9	69	10	126	18	126	18	177	26	262	38	270	39
-20	-29	-8.5	31	4.6	82	12	144	21	143	21	197	29	286	41.5	299	43
-18	-23	-6.7	43	6.3	96	14	163	24	161	23	217	32	311	45.1	330	48
-16	-16	-4.7	56	8.1	111	16	184	27	180	26	240	35	337	48.9	363	53
-14	-9	-2.5	69	10	126	18	206	30	200	29	263	38	365	52.9	398	58
-12	-1	-0.3	84	12	143	21	229	33	222	32	287	42	394	57.1	435	63
-10	7	1	99	14	160	23	253	37	244	35	313	45	424	61.5	473	69
-8	16	2.3	116	17	178	26	279	40	267	39	339	49	455	66.1	514	75
-6	25	3.6	133	19	197	29	306	44	292	42	367	53	488	70.8	557	81
-4	35	5	151	22	216	31	335	49	318	46	397	58	523	75.8	602	87
-2	45	6.5	171	25	237	34	365	53	345	50	427	62	558	81	650	94
0	56	8.1	191	28	259	38	397	58	373	54	460	67	595	86.4	699	101
2	67	9.7	213	31	282	41	430	62	403	58	493	72	634	92	752	109
4	79	11	236	34	306	44	465	67	434	63	528	77	675	97.8	807	117
6	92	13	261	38	331	48	501	73	466	68	565	82	716	103.9	864	125
8	105	15	286	41	357	52	540	78	500	73	603	87	760	110.2	924	134
10	119	17	313	45	385	56	580	84	535	78	642	93	805	116.8	987	143
12	134	19	342	50	413	60	622	90	572	83	684	99	852	123.6	1053	153
14	150	22	372	54	443	64	665	97	610	89	727	105	901	130.7	1122	163
16	166	24	403	58	474	69	711	103	650	94	771	112	951	138	1193	173
18	183	27	436	63	506	73	759	110	692	100	818	119	1004	145.6	1268	184
20	201	29	470	68	540	78	809	117	735	107	866	126	1058	153.4	1346	195
22	220	32	507	73	575	83	861	125	780	113	916	133	1114	161.6	1428	207
24	239	35	544	79	611	89	915	133	827	120	968	140	1172	170	1512	219
26	260	38	584	85	649	94	971	141	875	127	1022	148	1232	178.7	1601	232
28	281	41	626	91	688	100	1030	149	926	134	1078	156	1294	187.7	1693	245
30	303	44	669	97	729	106	1091	158	978	142	1136	165	1358	197	1788	259
32	327	47	714	103	771	112	1154	167	1032	150	1196	173	1425	206.6	1887	274
34	351	51	761	110	814	118	1220	177	1088	158	1258	182	1493	216.5	1991	289
36	376	55	811	118	860	125	1288	187	1146	166	1322	192	1564	226.8	2098	304
38	403	58	862	125	906	131	1359	197	1206	175	1389	201	1636	237.3	2209	320
40	430	62	915	133	955	138	1432	208	1268	184	1457	211	1712	248.2	2324	337
42	458	66	971	141	1005	146	1508	219	1332	193	1528	222	1789	259.5	2444	354
44	488	71	1029	149	1057	153	1587	230	1399	203	1602	232	1869	271	2568	373
46	519	75	1089	158	1110	161	1669	242	1468	213	1677	243	1951	283	2697	391
48	551	80	1152	167	1166	169	1754	254	1539	223	1755	255	2036	295.3	2831	411
50	584	85	1217	176	1223	177	1841	267	1612	234	1836	266	2123	307.9	2969	431
52	618	90	1284	186	1282	186	1932	280	1688	245	1919	278	2213	320.9	3113	451
54	653	95	1354	196	1342	195	2026	294	1766	256	2005	291	2305	334.3	3261	473
56	690	100	1427	207	1405	204	2123	308	1847	268	2094	304	2400	348.1	3415	495
58	728	106	1502	218	1470	213	2223	322	1930	280	2185	317	2497	362.2	3575	519
60	768	111	1580	229	1536	223	2326	337	2015	292	2279	331	2598	376.8	3741	543
70	986	143	2015	292	1900	276			2485	361	2795	405	3142	456	4664	677
80	1243	180	2532	367	2318	336			3031	440	3392	492	3760	545		
90	1541	223	3143	456	2796	406			3663	531	4088	593	4381	635		
100	1885	273			3338	484										
110	2281	331			3944	572										
120	2735	397														
130	3257	472														

Critical Temp **135** **101** **112** **96** **97** **94** **90** **70** **83**

\*Please note that on small percentage of the recent split systems which are pressure rather than temperature driven, performance of Minus 60 versus the original refrigerant must be assessed on the case-by-case basis. Minus 60 operates at pressures lower than R410a and similar synthetic refrigerant blends and therefore its pT curve is not a close match for these refrigerants.