

Opteon™ XP30 and Freon™ 123 Pressure-Temperature Data (Eng)

P	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature	P	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature	P	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature
psig	°F	°F	psig	°F	°F	psig	°F	°F
-11	27.62	25.46	39	158.79	157.12	89	205.67	204.73
-10	36.35	34.16	40	160.00	158.35	90	206.41	205.49
-9	43.76	41.55	41	161.20	159.57	91	207.14	206.24
-8	50.24	48.01	42	162.38	160.76	92	207.87	206.98
-7	56.00	53.76	43	163.55	161.95	93	208.60	207.72
-6	61.22	58.97	44	164.70	163.11	94	209.32	208.45
-5	65.98	63.74	45	165.84	164.26	95	210.03	209.18
-4	70.39	68.14	46	166.96	165.40	96	210.74	209.91
-3	74.48	72.24	47	168.07	166.52	97	211.45	210.62
-2	78.31	76.08	48	169.16	167.63	98	212.15	211.34
-1	81.91	79.69	49	170.24	168.73	99	212.85	212.05
0	85.32	83.10	50	171.31	169.81	100	213.54	212.75
1	88.55	86.34	51	172.37	170.88	101	214.22	213.45
2	91.62	89.42	52	173.41	171.94	102	214.91	214.15
3	94.56	92.37	53	174.45	172.99	103	215.58	214.84
4	97.37	95.19	54	175.47	174.03	104	216.26	215.53
5	100.07	97.90	55	176.48	175.05	105	216.93	216.21
6	102.66	100.50	56	177.47	176.06	106	217.59	216.89
7	105.16	103.01	57	178.46	177.07	107	218.25	217.56
8	107.56	105.43	58	179.44	178.06	108	218.91	218.24
9	109.89	107.78	59	180.41	179.04	109	219.56	218.90
10	112.15	110.04	60	181.37	180.01	110	220.21	219.56
11	114.33	112.24	61	182.31	180.98	111	220.86	220.22
12	116.45	114.38	62	183.25	181.93	112	221.50	220.88
13	118.51	116.45	63	184.18	182.87	113	222.14	221.53
14	120.52	118.47	64	185.10	183.81	114	222.77	222.17
15	122.47	120.43	65	186.01	184.73	115	223.40	222.82
16	124.37	122.35	66	186.92	185.65	116	224.03	223.46
17	126.22	124.22	67	187.81	186.56	117	224.65	224.09
18	128.03	126.04	68	188.70	187.46	118	225.27	224.73
19	129.80	127.83	69	189.57	188.35	119	225.88	225.35
20	131.53	129.57	70	190.45	189.24	120	226.50	225.98
21	133.22	131.27	71	191.31	190.12	121	227.10	226.60
22	134.87	132.94	72	192.16	190.98	122	227.71	227.22
23	136.49	134.58	73	193.01	191.85	123	228.31	227.84
24	138.08	136.18	74	193.85	192.70	124	228.91	228.45
25	139.63	137.75	75	194.68	193.55	125	229.51	229.06
26	141.16	139.29	76	195.51	194.39	126	230.10	229.66
27	142.66	140.81	77	196.33	195.22	127	230.69	230.26
28	144.13	142.29	78	197.14	196.05	128	231.27	230.86
29	145.57	143.75	79	197.95	196.87	129	231.86	231.46
30	146.99	145.19	80	198.75	197.68	130	232.44	232.05
31	148.39	146.60	81	199.54	198.49	131	233.01	232.64
32	149.76	147.99	82	200.33	199.29	132	233.59	233.23
33	151.11	149.35	83	201.11	200.09	133	234.16	233.81
34	152.44	150.70	84	201.88	200.87	134	234.73	234.39
35	153.75	152.02	85	202.65	201.66	135	235.29	234.97
36	155.03	153.32	86	203.41	202.43	136	235.85	235.55
37	156.30	154.61	87	204.17	203.21	137	236.41	236.12
38	157.55	155.87	88	204.92	203.97	138	236.97	236.69

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psig	°F	°F	psig	°F	°F	psig	°F	°F
139	237.53	237.25	191	263.19	263.55	243	284.30	285.27
140	238.08	237.82	192	263.63	264.01	244	284.68	285.65
141	238.63	238.38	193	264.08	264.46	245	285.05	286.03
142	239.17	238.94	194	264.52	264.91	246	285.42	286.41
143	239.72	239.49	195	264.95	265.36	247	285.79	286.79
144	240.26	240.05	196	265.39	265.81	248	286.15	287.17
145	240.79	240.60	197	265.82	266.25	249	286.52	287.55
146	241.33	241.15	198	266.26	266.70	250	286.89	287.93
147	241.86	241.69	199	266.69	267.14	251	287.25	288.31
148	242.39	242.24	200	267.12	267.58	252	287.62	288.68
149	242.92	242.78	201	267.55	268.02	253	287.98	289.06
150	243.45	243.32	202	267.97	268.46	254	288.34	289.43
151	243.97	243.85	203	268.40	268.90	255	288.70	289.80
152	244.49	244.38	204	268.82	269.33	256	289.06	290.17
153	245.01	244.92	205	269.25	269.77	257	289.42	290.54
154	245.53	245.44	206	269.67	270.20	258	289.78	290.91
155	246.04	245.97	207	270.09	270.63	259	290.13	291.28
156	246.56	246.50	208	270.50	271.06	260	290.49	291.65
157	247.06	247.02	209	270.92	271.49	261	290.84	292.01
158	247.57	247.54	210	271.34	271.92	262	291.20	292.38
159	248.08	248.05	211	271.75	272.34	263	291.55	292.74
160	248.58	248.57	212	272.16	272.77	264	291.90	293.10
161	249.08	249.08	213	272.57	273.19	265	292.25	293.46
162	249.58	249.59	214	272.98	273.61	266	292.60	293.83
163	250.08	250.10	215	273.39	274.03	267	292.95	294.19
164	250.57	250.61	216	273.80	274.45	268	293.30	294.54
165	251.06	251.11	217	274.20	274.87	269	293.64	294.90
166	251.55	251.62	218	274.61	275.28	270	293.99	295.26
167	252.04	252.12	219	275.01	275.70	271	294.33	295.62
168	252.53	252.61	220	275.41	276.11	272	294.68	295.97
169	253.01	253.11	221	275.81	276.52	273	295.02	296.32
170	253.49	253.60	222	276.21	276.93	274	295.36	296.68
171	253.97	254.10	223	276.61	277.34	275	295.70	297.03
172	254.45	254.59	224	277.01	277.75	276	296.04	297.38
173	254.93	255.08	225	277.40	278.16	277	296.38	297.73
174	255.40	255.56	226	277.79	278.56	278	296.72	298.08
175	255.88	256.05	227	278.19	278.96	279	297.05	298.43
176	256.35	256.53	228	278.58	279.37	280	297.39	298.78
177	256.82	257.01	229	278.97	279.77	281	297.73	299.13
178	257.28	257.49	230	279.36	280.17	282	298.06	299.47
179	257.75	257.97	231	279.74	280.57	283	298.39	299.82
180	258.21	258.44	232	280.13	280.97	284	298.73	300.16
181	258.67	258.91	233	280.52	281.36	285	299.06	300.50
182	259.13	259.39	234	280.90	281.76	286	299.39	300.85
183	259.59	259.86	235	281.28	282.15	287	299.72	301.19
184	260.05	260.32	236	281.66	282.55	288	300.05	301.53
185	260.50	260.79	237	282.05	282.94	289	300.37	301.87
186	260.95	261.25	238	282.42	283.33	290	300.70	302.21
187	261.40	261.72	239	282.80	283.72	291	301.03	302.55
188	261.85	262.18	240	283.18	284.11	292	301.35	302.88
189	262.30	262.64	241	283.56	284.49	293	301.68	303.22
190	262.75	263.09	242	283.93	284.88	294	302.00	303.55

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psig	°F	°F	psig	°F	°F	psig	°F	°F
295	302.32	303.89	347	317.99	320.25	399	331.69	334.85
296	302.64	304.22	348	318.27	320.54	400	331.94	335.11
297	302.97	304.56	349	318.55	320.84	401	332.18	335.38
298	303.29	304.89	350	318.83	321.13	402	332.43	335.64
299	303.60	305.22	351	319.11	321.43	403	332.67	335.91
300	303.92	305.55	352	319.39	321.72	404	332.91	336.17
301	304.24	305.88	353	319.67	322.02	405	333.15	336.43
302	304.56	306.21	354	319.94	322.31	406	333.39	336.69
303	304.87	306.54	355	320.22	322.60	407	333.63	336.96
304	305.19	306.87	356	320.50	322.89	408	333.87	337.22
305	305.50	307.19	357	320.77	323.18	409	334.11	337.48
306	305.81	307.52	358	321.05	323.47	410	334.35	337.74
307	306.13	307.84	359	321.32	323.76	411	334.59	338.00
308	306.44	308.17	360	321.59	324.05	412	334.83	338.26
309	306.75	308.49	361	321.86	324.34	413	335.07	338.52
310	307.06	308.81	362	322.14	324.62	414	335.30	338.78
311	307.37	309.14	363	322.41	324.91	415	335.54	339.03
312	307.68	309.46	364	322.67	325.20	416	335.78	339.29
313	307.98	309.78	365	322.94	325.48	417	336.01	339.55
314	308.29	310.10	366	323.21	325.77	418	336.24	339.81
315	308.60	310.42	367	323.48	326.05	419	336.48	340.06
316	308.90	310.74	368	323.75	326.33	420	336.71	340.32
317	309.21	311.05	369	324.01	326.62	421	336.94	340.57
318	309.51	311.37	370	324.28	326.90	422	337.17	340.83
319	309.81	311.69	371	324.54	327.18	423	337.40	341.08
320	310.12	312.00	372	324.81	327.46	424	337.63	341.33
321	310.42	312.32	373	325.07	327.74	425	337.86	341.59
322	310.72	312.63	374	325.33	328.02	426	338.09	341.84
323	311.02	312.94	375	325.60	328.30	427	338.31	342.09
324	311.32	313.25	376	325.86	328.58	428	338.54	342.34
325	311.62	313.57	377	326.12	328.86	429	338.77	342.59
326	311.92	313.88	378	326.38	329.14	430	338.99	342.84
327	312.21	314.19	379	326.64	329.42	431	339.22	343.09
328	312.51	314.50	380	326.90	329.69	432	339.45	343.34
329	312.80	314.81	381	327.16	329.97	433	339.67	343.59
330	313.10	315.11	382	327.42	330.24	434	339.89	343.84
331	313.39	315.42	383	327.67	330.52	435	340.12	344.09
332	313.69	315.73	384	327.93	330.79	436	340.34	344.34
333	313.98	316.03	385	328.18	331.07	437	340.56	344.58
334	314.27	316.34	386	328.44	331.34	438	340.78	344.83
335	314.56	316.64	387	328.69	331.61	439	341.00	345.08
336	314.85	316.95	388	328.94	331.89	440	341.22	345.32
337	315.14	317.25	389	329.20	332.16	441	341.44	345.57
338	315.43	317.55	390	329.45	332.43	442	341.66	345.81
339	315.71	317.86	391	329.70	332.70	443	341.88	346.06
340	316.00	318.16	392	329.95	332.97	444	342.10	346.30
341	316.29	318.46	393	330.20	333.24	445	342.32	346.54
342	316.57	318.76	394	330.45	333.51	446	342.53	346.79
343	316.86	319.06	395	330.70	333.78	447	342.75	347.03
344	317.14	319.36	396	330.95	334.04	448	342.96	347.27
345	317.42	319.65	397	331.20	334.31	449	343.18	347.51
346	317.71	319.95	398	331.44	334.58	450	343.39	347.75

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psig	°F	°F	psig	°F	°F	psig	°F	°F
451	343.60	347.99	466	346.73	351.55	481	349.74	354.99
452	343.82	348.23	467	346.93	351.78	482	349.93	355.22
453	344.03	348.47	468	347.14	352.01	483	350.13	355.45
454	344.24	348.71	469	347.34	352.24	484	350.33	355.67
455	344.45	348.95	470	347.54	352.48	485	350.52	355.90
456	344.66	349.19	471	347.75	352.71	486	350.71	356.12
457	344.87	349.43	472	347.95	352.94	487	350.91	356.34
458	345.08	349.67	473	348.15	353.17	488	351.10	356.57
459	345.29	349.90	474	348.35	353.40	489	351.29	356.79
460	345.50	350.14	475	348.55	353.63	490	351.49	357.01
461	345.70	350.37	476	348.75	353.86	491	351.68	357.23
462	345.91	350.61	477	348.95	354.09	492	351.87	357.46
463	346.11	350.84	478	349.15	354.31	493	352.06	357.68
464	346.32	351.08	479	349.35	354.54	494	352.25	357.90
465	346.52	351.31	480	349.54	354.77	495	352.45	358.12

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°F	psig	psig	°F	psig	psig	°F	psig	psig
32	-10.22	-9.96	95	3.46	4.24	158	38.67	40.02
33	-10.10	-9.84	96	3.81	4.60	159	39.48	40.84
34	-9.98	-9.72	97	4.17	4.97	160	40.31	41.66
35	-9.86	-9.59	98	4.54	5.34	161	41.14	42.50
36	-9.74	-9.46	99	4.91	5.72	162	41.98	43.35
37	-9.61	-9.33	100	5.28	6.11	163	42.84	44.21
38	-9.49	-9.19	101	5.66	6.50	164	43.70	45.07
39	-9.35	-9.06	102	6.05	6.90	165	44.57	45.95
40	-9.22	-8.92	103	6.44	7.30	166	45.45	46.84
41	-9.09	-8.78	104	6.84	7.71	167	46.35	47.73
42	-8.95	-8.63	105	7.24	8.12	168	47.25	48.64
43	-8.81	-8.48	106	7.65	8.54	169	48.16	49.55
44	-8.66	-8.33	107	8.07	8.97	170	49.08	50.48
45	-8.51	-8.18	108	8.49	9.40	171	50.02	51.41
46	-8.36	-8.02	109	8.92	9.84	172	50.96	52.36
47	-8.21	-7.86	110	9.35	10.28	173	51.91	53.31
48	-8.05	-7.70	111	9.79	10.74	174	52.88	54.28
49	-7.90	-7.53	112	10.24	11.19	175	53.85	55.25
50	-7.73	-7.36	113	10.69	11.66	176	54.84	56.24
51	-7.57	-7.19	114	11.15	12.13	177	55.84	57.24
52	-7.40	-7.01	115	11.62	12.60	178	56.84	58.24
53	-7.23	-6.83	116	12.09	13.08	179	57.86	59.26
54	-7.05	-6.65	117	12.57	13.57	180	58.89	60.29
55	-6.88	-6.47	118	13.06	14.07	181	59.93	61.33
56	-6.70	-6.28	119	13.55	14.57	182	60.98	62.38
57	-6.51	-6.09	120	14.05	15.08	183	62.04	63.44
58	-6.32	-5.89	121	14.55	15.60	184	63.12	64.51
59	-6.13	-5.69	122	15.07	16.12	185	64.20	65.59
60	-5.94	-5.49	123	15.58	16.65	186	65.30	66.69
61	-5.74	-5.28	124	16.11	17.19	187	66.41	67.79
62	-5.54	-5.07	125	16.65	17.73	188	67.53	68.91
63	-5.33	-4.86	126	17.19	18.28	189	68.66	70.03
64	-5.12	-4.64	127	17.73	18.84	190	69.80	71.17
65	-4.91	-4.42	128	18.29	19.40	191	70.96	72.32
66	-4.69	-4.19	129	18.85	19.98	192	72.13	73.48
67	-4.47	-3.96	130	19.42	20.56	193	73.30	74.66
68	-4.25	-3.73	131	20.00	21.14	194	74.50	75.84
69	-4.02	-3.49	132	20.59	21.74	195	75.70	77.04
70	-3.79	-3.25	133	21.18	22.34	196	76.92	78.24
71	-3.55	-3.01	134	21.78	22.95	197	78.14	79.46
72	-3.31	-2.76	135	22.39	23.57	198	79.38	80.70
73	-3.06	-2.50	136	23.00	24.19	199	80.64	81.94
74	-2.82	-2.25	137	23.63	24.82	200	81.90	83.20
75	-2.56	-1.98	138	24.26	25.46	201	83.18	84.46
76	-2.31	-1.72	139	24.90	26.11	202	84.47	85.74
77	-2.04	-1.45	140	25.55	26.77	203	85.78	87.04
78	-1.78	-1.17	141	26.20	27.43	204	87.09	88.34
79	-1.51	-0.89	142	26.87	28.11	205	88.42	89.66
80	-1.23	-0.61	143	27.54	28.79	206	89.76	90.99
81	-0.95	-0.32	144	28.22	29.47	207	91.12	92.33
82	-0.67	-0.02	145	28.91	30.17	208	92.49	93.69
83	-0.38	0.27	146	29.61	30.88	209	93.87	95.05
84	-0.09	0.58	147	30.31	31.59	210	95.27	96.44
85	0.21	0.88	148	31.03	32.31	211	96.68	97.83
86	0.51	1.20	149	31.75	33.04	212	98.10	99.24
87	0.82	1.51	150	32.48	33.78	213	99.54	100.66
88	1.13	1.84	151	33.23	34.53	214	100.99	102.09
89	1.45	2.16	152	33.98	35.29	215	102.45	103.53
90	1.77	2.50	153	34.74	36.05	216	103.93	104.99
91	2.10	2.83	154	35.50	36.83	217	105.43	106.47
92	2.43	3.18	155	36.28	37.61	218	106.93	107.95
93	2.77	3.52	156	37.07	38.40	219	108.45	109.45
94	3.11	3.88	157	37.86	39.21	220	109.99	110.97

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°F	psig	psig	°F	psig	psig	°F	psig	psig
221	111.54	112.49	265	195.44	194.51	309	316.65	310.88
222	113.10	114.03	266	197.74	196.74	310	319.95	314.00
223	114.68	115.59	267	200.05	198.99	311	323.27	317.14
224	116.27	117.16	268	202.39	201.25	312	326.62	320.30
225	117.88	118.74	269	204.75	203.54	313	330.01	323.49
226	119.51	120.34	270	207.12	205.84	314	333.42	326.70
227	121.14	121.95	271	209.52	208.16	315	336.86	329.93
228	122.80	123.57	272	211.93	210.50	316	340.33	333.19
229	124.47	125.21	273	214.37	212.86	317	343.84	336.47
230	126.15	126.87	274	216.83	215.23	318	347.37	339.78
231	127.85	128.53	275	219.30	217.63	319	350.94	343.11
232	129.56	130.22	276	221.80	220.04	320	354.54	346.47
233	131.29	131.92	277	224.31	222.47	321	358.18	349.85
234	133.04	133.63	278	226.85	224.92	322	361.85	353.25
235	134.80	135.35	279	229.41	227.39	323	365.55	356.68
236	136.58	137.10	280	231.99	229.88	324	369.29	360.14
237	138.37	138.85	281	234.59	232.39	325	373.07	363.62
238	140.18	140.63	282	237.21	234.91	326	376.88	367.13
239	142.00	142.41	283	239.85	237.46	327	380.74	370.66
240	143.84	144.22	284	242.51	240.03	328	384.63	374.22
241	145.70	146.04	285	245.20	242.61	329	388.56	377.80
242	147.57	147.87	286	247.90	245.22	330	392.54	381.42
243	149.46	149.72	287	250.63	247.84	331	396.55	385.05
244	151.37	151.58	288	253.38	250.49	332	400.61	388.72
245	153.30	153.46	289	256.16	253.16	333	404.72	392.41
246	155.24	155.36	290	258.95	255.84	334	408.87	396.14
247	157.19	157.27	291	261.77	258.55	335	413.07	399.89
248	159.17	159.20	292	264.61	261.27	336	417.32	403.66
249	161.16	161.14	293	267.48	264.02	337	421.62	407.47
250	163.17	163.10	294	270.37	266.79	338	425.97	411.30
251	165.19	165.08	295	273.28	269.58	339	430.37	415.17
252	167.24	167.07	296	276.21	272.39	340	434.83	419.06
253	169.30	169.08	297	279.17	275.22	341	439.34	422.99
254	171.38	171.11	298	282.15	278.07	342	443.91	426.94
255	173.47	173.15	299	285.16	280.94	343	448.54	430.93
256	175.59	175.21	300	288.19	283.84	344	453.23	434.94
257	177.72	177.28	301	291.25	286.75	345	457.98	438.99
258	179.87	179.38	302	294.34	289.69	346	462.79	443.07
259	182.04	181.49	303	297.44	292.65	347	467.67	447.18
260	184.22	183.61	304	300.58	295.63	348	472.61	451.33
261	186.43	185.76	305	303.74	298.64	349	477.61	455.50
262	188.65	187.92	306	306.93	301.67	350	482.68	459.72
263	190.90	190.10	307	310.14	304.71	351	487.81	463.97
264	193.16	192.29	308	313.38	307.79	352	493.01	468.25

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