

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
psia	°F	°F	psia	°F	°F	psia	°F	°F
4	27.62	25.46	54	158.79	157.12	104	205.67	204.73
5	36.35	34.16	55	160.00	158.35	105	206.41	205.49
6	43.76	41.55	56	161.20	159.57	106	207.14	206.24
7	50.24	48.01	57	162.38	160.76	107	207.87	206.98
8	56.00	53.76	58	163.55	161.95	108	208.60	207.72
9	61.22	58.97	59	164.70	163.11	109	209.32	208.45
10	65.98	63.74	60	165.84	164.26	110	210.03	209.18
11	70.39	68.14	61	166.96	165.40	111	210.74	209.91
12	74.48	72.24	62	168.07	166.52	112	211.45	210.62
13	78.31	76.08	63	169.16	167.63	113	212.15	211.34
14	81.91	79.69	64	170.24	168.73	114	212.85	212.05
15	85.32	83.10	65	171.31	169.81	115	213.54	212.75
16	88.55	86.34	66	172.37	170.88	116	214.22	213.45
17	91.62	89.42	67	173.41	171.94	117	214.91	214.15
18	94.56	92.37	68	174.45	172.99	118	215.58	214.84
19	97.37	95.19	69	175.47	174.03	119	216.26	215.53
20	100.07	97.90	70	176.48	175.05	120	216.93	216.21
21	102.66	100.50	71	177.47	176.06	121	217.59	216.89
22	105.16	103.01	72	178.46	177.07	122	218.25	217.56
23	107.56	105.43	73	179.44	178.06	123	218.91	218.24
24	109.89	107.78	74	180.41	179.04	124	219.56	218.90
25	112.15	110.04	75	181.37	180.01	125	220.21	219.56
26	114.33	112.24	76	182.31	180.98	126	220.86	220.22
27	116.45	114.38	77	183.25	181.93	127	221.50	220.88
28	118.51	116.45	78	184.18	182.87	128	222.14	221.53
29	120.52	118.47	79	185.10	183.81	129	222.77	222.17
30	122.47	120.43	80	186.01	184.73	130	223.40	222.82
31	124.37	122.35	81	186.92	185.65	131	224.03	223.46
32	126.22	124.22	82	187.81	186.56	132	224.65	224.09
33	128.03	126.04	83	188.70	187.46	133	225.27	224.73
34	129.80	127.83	84	189.57	188.35	134	225.88	225.35
35	131.53	129.57	85	190.45	189.24	135	226.50	225.98
36	133.22	131.27	86	191.31	190.12	136	227.10	226.60
37	134.87	132.94	87	192.16	190.98	137	227.71	227.22
38	136.49	134.58	88	193.01	191.85	138	228.31	227.84
39	138.08	136.18	89	193.85	192.70	139	228.91	228.45
40	139.63	137.75	90	194.68	193.55	140	229.51	229.06
41	141.16	139.29	91	195.51	194.39	141	230.10	229.66
42	142.66	140.81	92	196.33	195.22	142	230.69	230.26
43	144.13	142.29	93	197.14	196.05	143	231.27	230.86
44	145.57	143.75	94	197.95	196.87	144	231.86	231.46
45	146.99	145.19	95	198.75	197.68	145	232.44	232.05
46	148.39	146.60	96	199.54	198.49	146	233.01	232.64
47	149.76	147.99	97	200.33	199.29	147	233.59	233.23
48	151.11	149.35	98	201.11	200.09	148	234.16	233.81
49	152.44	150.70	99	201.88	200.87	149	234.73	234.39
50	153.75	152.02	100	202.65	201.66	150	235.29	234.97
51	155.03	153.32	101	203.41	202.43	151	235.85	235.55
52	156.30	154.61	102	204.17	203.21	152	236.41	236.12
53	157.55	155.87	103	204.92	203.97	153	236.97	236.69

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psia	°F	°F	psia	°F	°F	psia	°F	°F
154	237.53	237.25	206	263.19	263.55	258	284.30	285.27
155	238.08	237.82	207	263.63	264.01	259	284.68	285.65
156	238.63	238.38	208	264.08	264.46	260	285.05	286.03
157	239.17	238.94	209	264.52	264.91	261	285.42	286.41
158	239.72	239.49	210	264.95	265.36	262	285.79	286.79
159	240.26	240.05	211	265.39	265.81	263	286.15	287.17
160	240.79	240.60	212	265.82	266.25	264	286.52	287.55
161	241.33	241.15	213	266.26	266.70	265	286.89	287.93
162	241.86	241.69	214	266.69	267.14	266	287.25	288.31
163	242.39	242.24	215	267.12	267.58	267	287.62	288.68
164	242.92	242.78	216	267.55	268.02	268	287.98	289.06
165	243.45	243.32	217	267.97	268.46	269	288.34	289.43
166	243.97	243.85	218	268.40	268.90	270	288.70	289.80
167	244.49	244.38	219	268.82	269.33	271	289.06	290.17
168	245.01	244.92	220	269.25	269.77	272	289.42	290.54
169	245.53	245.44	221	269.67	270.20	273	289.78	290.91
170	246.04	245.97	222	270.09	270.63	274	290.13	291.28
171	246.56	246.50	223	270.50	271.06	275	290.49	291.65
172	247.06	247.02	224	270.92	271.49	276	290.84	292.01
173	247.57	247.54	225	271.34	271.92	277	291.20	292.38
174	248.08	248.05	226	271.75	272.34	278	291.55	292.74
175	248.58	248.57	227	272.16	272.77	279	291.90	293.10
176	249.08	249.08	228	272.57	273.19	280	292.25	293.46
177	249.58	249.59	229	272.98	273.61	281	292.60	293.83
178	250.08	250.10	230	273.39	274.03	282	292.95	294.19
179	250.57	250.61	231	273.80	274.45	283	293.30	294.54
180	251.06	251.11	232	274.20	274.87	284	293.64	294.90
181	251.55	251.62	233	274.61	275.28	285	293.99	295.26
182	252.04	252.12	234	275.01	275.70	286	294.33	295.62
183	252.53	252.61	235	275.41	276.11	287	294.68	295.97
184	253.01	253.11	236	275.81	276.52	288	295.02	296.32
185	253.49	253.60	237	276.21	276.93	289	295.36	296.68
186	253.97	254.10	238	276.61	277.34	290	295.70	297.03
187	254.45	254.59	239	277.01	277.75	291	296.04	297.38
188	254.93	255.08	240	277.40	278.16	292	296.38	297.73
189	255.40	255.56	241	277.79	278.56	293	296.72	298.08
190	255.88	256.05	242	278.19	278.96	294	297.05	298.43
191	256.35	256.53	243	278.58	279.37	295	297.39	298.78
192	256.82	257.01	244	278.97	279.77	296	297.73	299.13
193	257.28	257.49	245	279.36	280.17	297	298.06	299.47
194	257.75	257.97	246	279.74	280.57	298	298.39	299.82
195	258.21	258.44	247	280.13	280.97	299	298.73	300.16
196	258.67	258.91	248	280.52	281.36	300	299.06	300.50
197	259.13	259.39	249	280.90	281.76	301	299.39	300.85
198	259.59	259.86	250	281.28	282.15	302	299.72	301.19
199	260.05	260.32	251	281.66	282.55	303	300.05	301.53
200	260.50	260.79	252	282.05	282.94	304	300.37	301.87
201	260.95	261.25	253	282.42	283.33	305	300.70	302.21
202	261.40	261.72	254	282.80	283.72	306	301.03	302.55
203	261.85	262.18	255	283.18	284.11	307	301.35	302.88
204	262.30	262.64	256	283.56	284.49	308	301.68	303.22
205	262.75	263.09	257	283.93	284.88	309	302.00	303.55

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310	302.32	303.89	362	317.99	320.25	414	331.69	334.85
311	302.64	304.22	363	318.27	320.54	415	331.94	335.11
312	302.97	304.56	364	318.55	320.84	416	332.18	335.38
313	303.29	304.89	365	318.83	321.13	417	332.43	335.64
314	303.60	305.22	366	319.11	321.43	418	332.67	335.91
315	303.92	305.55	367	319.39	321.72	419	332.91	336.17
316	304.24	305.88	368	319.67	322.02	420	333.15	336.43
317	304.56	306.21	369	319.94	322.31	421	333.39	336.69
318	304.87	306.54	370	320.22	322.60	422	333.63	336.96
319	305.19	306.87	371	320.50	322.89	423	333.87	337.22
320	305.50	307.19	372	320.77	323.18	424	334.11	337.48
321	305.81	307.52	373	321.05	323.47	425	334.35	337.74
322	306.13	307.84	374	321.32	323.76	426	334.59	338.00
323	306.44	308.17	375	321.59	324.05	427	334.83	338.26
324	306.75	308.49	376	321.86	324.34	428	335.07	338.52
325	307.06	308.81	377	322.14	324.62	429	335.30	338.78
326	307.37	309.14	378	322.41	324.91	430	335.54	339.03
327	307.68	309.46	379	322.67	325.20	431	335.78	339.29
328	307.98	309.78	380	322.94	325.48	432	336.01	339.55
329	308.29	310.10	381	323.21	325.77	433	336.24	339.81
330	308.60	310.42	382	323.48	326.05	434	336.48	340.06
331	308.90	310.74	383	323.75	326.33	435	336.71	340.32
332	309.21	311.05	384	324.01	326.62	436	336.94	340.57
333	309.51	311.37	385	324.28	326.90	437	337.17	340.83
334	309.81	311.69	386	324.54	327.18	438	337.40	341.08
335	310.12	312.00	387	324.81	327.46	439	337.63	341.33
336	310.42	312.32	388	325.07	327.74	440	337.86	341.59
337	310.72	312.63	389	325.33	328.02	441	338.09	341.84
338	311.02	312.94	390	325.60	328.30	442	338.31	342.09
339	311.32	313.25	391	325.86	328.58	443	338.54	342.34
340	311.62	313.57	392	326.12	328.86	444	338.77	342.59
341	311.92	313.88	393	326.38	329.14	445	338.99	342.84
342	312.21	314.19	394	326.64	329.42	446	339.22	343.09
343	312.51	314.50	395	326.90	329.69	447	339.45	343.34
344	312.80	314.81	396	327.16	329.97	448	339.67	343.59
345	313.10	315.11	397	327.42	330.24	449	339.89	343.84
346	313.39	315.42	398	327.67	330.52	450	340.12	344.09
347	313.69	315.73	399	327.93	330.79	451	340.34	344.34
348	313.98	316.03	400	328.18	331.07	452	340.56	344.58
349	314.27	316.34	401	328.44	331.34	453	340.78	344.83
350	314.56	316.64	402	328.69	331.61	454	341.00	345.08
351	314.85	316.95	403	328.94	331.89	455	341.22	345.32
352	315.14	317.25	404	329.20	332.16	456	341.44	345.57
353	315.43	317.55	405	329.45	332.43	457	341.66	345.81
354	315.71	317.86	406	329.70	332.70	458	341.88	346.06
355	316.00	318.16	407	329.95	332.97	459	342.10	346.30
356	316.29	318.46	408	330.20	333.24	460	342.32	346.54
357	316.57	318.76	409	330.45	333.51	461	342.53	346.79
358	316.86	319.06	410	330.70	333.78	462	342.75	347.03
359	317.14	319.36	411	330.95	334.04	463	342.96	347.27
360	317.42	319.65	412	331.20	334.31	464	343.18	347.51
361	317.71	319.95	413	331.44	334.58	465	343.39	347.75

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psia	°F	°F	psia	°F	°F	psia	°F	°F
466	343.60	347.99	481	346.73	351.55	496	349.74	354.99
467	343.82	348.23	482	346.93	351.78	497	349.93	355.22
468	344.03	348.47	483	347.14	352.01	498	350.13	355.45
469	344.24	348.71	484	347.34	352.24	499	350.33	355.67
470	344.45	348.95	485	347.54	352.48	500	350.52	355.90
471	344.66	349.19	486	347.75	352.71	501	350.71	356.12
472	344.87	349.43	487	347.95	352.94	502	350.91	356.34
473	345.08	349.67	488	348.15	353.17	503	351.10	356.57
474	345.29	349.90	489	348.35	353.40	504	351.29	356.79
475	345.50	350.14	490	348.55	353.63	505	351.49	357.01
476	345.70	350.37	491	348.75	353.86	506	351.68	357.23
477	345.91	350.61	492	348.95	354.09	507	351.87	357.46
478	346.11	350.84	493	349.15	354.31	508	352.06	357.68
479	346.32	351.08	494	349.35	354.54	509	352.25	357.90
480	346.52	351.31	495	349.54	354.77	510	352.45	358.12

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

Temp	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature	Temp	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature	Temp	Opteon™ XP30 Saturation Temperature	Freon™ 123 Saturation Temperature
°F	psia	psia	°F	psia	psia	°F	psia	psia
32	4.48	4.73	95	18.16	18.93	158	53.36	54.71
33	4.60	4.86	96	18.51	19.30	159	54.18	55.53
34	4.71	4.98	97	18.87	19.66	160	55.00	56.36
35	4.83	5.11	98	19.23	20.04	161	55.84	57.20
36	4.96	5.24	99	19.60	20.42	162	56.68	58.05
37	5.08	5.37	100	19.98	20.80	163	57.53	58.90
38	5.21	5.50	101	20.36	21.20	164	58.39	59.77
39	5.34	5.64	102	20.74	21.59	165	59.27	60.65
40	5.47	5.78	103	21.14	22.00	166	60.15	61.53
41	5.61	5.92	104	21.54	22.40	167	61.04	62.43
42	5.75	6.07	105	21.94	22.82	168	61.94	63.33
43	5.89	6.21	106	22.35	23.24	169	62.86	64.25
44	6.04	6.37	107	22.76	23.67	170	63.78	65.17
45	6.18	6.52	108	23.19	24.10	171	64.71	66.11
46	6.33	6.68	109	23.61	24.54	172	65.66	67.05
47	6.49	6.84	110	24.05	24.98	173	66.61	68.01
48	6.64	7.00	111	24.49	25.43	174	67.57	68.97
49	6.80	7.16	112	24.94	25.89	175	68.55	69.95
50	6.96	7.33	113	25.39	26.35	176	69.54	70.94
51	7.13	7.51	114	25.85	26.82	177	70.53	71.93
52	7.30	7.68	115	26.31	27.30	178	71.54	72.94
53	7.47	7.86	116	26.79	27.78	179	72.56	73.96
54	7.64	8.04	117	27.27	28.27	180	73.59	74.99
55	7.82	8.23	118	27.75	28.76	181	74.63	76.02
56	8.00	8.42	119	28.24	29.27	182	75.68	77.07
57	8.18	8.61	120	28.74	29.78	183	76.74	78.13
58	8.37	8.81	121	29.25	30.29	184	77.81	79.21
59	8.56	9.01	122	29.76	30.82	185	78.90	80.29
60	8.76	9.21	123	30.28	31.34	186	80.00	81.38
61	8.96	9.41	124	30.81	31.88	187	81.10	82.49
62	9.16	9.63	125	31.34	32.43	188	82.22	83.60
63	9.36	9.84	126	31.88	32.98	189	83.36	84.73
64	9.57	10.06	127	32.43	33.53	190	84.50	85.87
65	9.79	10.28	128	32.99	34.10	191	85.65	87.02
66	10.00	10.50	129	33.55	34.67	192	86.82	88.18
67	10.22	10.73	130	34.12	35.25	193	88.00	89.35
68	10.45	10.97	131	34.70	35.84	194	89.19	90.54
69	10.68	11.20	132	35.28	36.43	195	90.40	91.73
70	10.91	11.44	133	35.87	37.03	196	91.61	92.94
71	11.15	11.69	134	36.48	37.64	197	92.84	94.16
72	11.39	11.94	135	37.08	38.26	198	94.08	95.39
73	11.63	12.19	136	37.70	38.89	199	95.33	96.64
74	11.88	12.45	137	38.32	39.52	200	96.60	97.89
75	12.13	12.71	138	38.96	40.16	201	97.88	99.16
76	12.39	12.98	139	39.59	40.81	202	99.17	100.44
77	12.65	13.25	140	40.24	41.46	203	100.47	101.73
78	12.92	13.53	141	40.90	42.13	204	101.79	103.04
79	13.19	13.81	142	41.56	42.80	205	103.12	104.35
80	13.46	14.09	143	42.24	43.48	206	104.46	105.68
81	13.74	14.38	144	42.92	44.17	207	105.82	107.03
82	14.03	14.67	145	43.61	44.87	208	107.19	108.38
83	14.31	14.97	146	44.30	45.57	209	108.57	109.75
84	14.61	15.27	147	45.01	46.29	210	109.96	111.13
85	14.90	15.58	148	45.72	47.01	211	111.37	112.52
86	15.21	15.89	149	46.45	47.74	212	112.80	113.93
87	15.51	16.21	150	47.18	48.48	213	114.23	115.35
88	15.83	16.53	151	47.92	49.23	214	115.69	116.78
89	16.14	16.86	152	48.67	49.98	215	117.15	118.23
90	16.47	17.19	153	49.43	50.75	216	118.63	119.69
91	16.79	17.53	154	50.20	51.52	217	120.12	121.16
92	17.13	17.87	155	50.98	52.31	218	121.63	122.65
93	17.46	18.22	156	51.76	53.10	219	123.15	124.15
94	17.81	18.57	157	52.56	53.90	220	124.68	125.66

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°F	psia	psia	°F	psia	psia	°F	psia	psia
221	126.23	127.19	265	210.13	209.20	309	331.34	325.58
222	127.80	128.73	266	212.43	211.43	310	334.64	328.69
223	129.38	130.28	267	214.75	213.68	311	337.97	331.83
224	130.97	131.85	268	217.09	215.95	312	341.32	335.00
225	132.58	133.44	269	219.44	218.23	313	344.70	338.18
226	134.20	135.03	270	221.82	220.53	314	348.11	341.39
227	135.84	136.64	271	224.22	222.86	315	351.56	344.63
228	137.49	138.27	272	226.63	225.19	316	355.03	347.89
229	139.16	139.91	273	229.07	227.55	317	358.53	351.17
230	140.84	141.56	274	231.52	229.93	318	362.07	354.48
231	142.54	143.23	275	234.00	232.32	319	365.64	357.81
232	144.26	144.91	276	236.49	234.74	320	369.24	361.16
233	145.99	146.61	277	239.01	237.17	321	372.88	364.54
234	147.73	148.32	278	241.55	239.62	322	376.54	367.95
235	149.49	150.05	279	244.10	242.09	323	380.25	371.38
236	151.27	151.79	280	246.68	244.58	324	383.99	374.83
237	153.06	153.55	281	249.28	247.08	325	387.77	378.31
238	154.87	155.32	282	251.90	249.61	326	391.58	381.82
239	156.70	157.11	283	254.54	252.16	327	395.43	385.35
240	158.54	158.91	284	257.21	254.72	328	399.33	388.91
241	160.40	160.73	285	259.89	257.31	329	403.26	392.50
242	162.27	162.56	286	262.60	259.91	330	407.23	396.11
243	164.16	164.41	287	265.33	262.54	331	411.25	399.75
244	166.07	166.28	288	268.08	265.19	332	415.31	403.42
245	167.99	168.16	289	270.85	267.85	333	419.41	407.11
246	169.93	170.05	290	273.65	270.54	334	423.57	410.83
247	171.89	171.97	291	276.47	273.24	335	427.77	414.58
248	173.86	173.89	292	279.31	275.97	336	432.01	418.36
249	175.85	175.84	293	282.17	278.72	337	436.31	422.17
250	177.86	177.80	294	285.06	281.48	338	440.66	426.00
251	179.89	179.78	295	287.97	284.27	339	445.06	429.87
252	181.93	181.77	296	290.91	287.08	340	449.52	433.76
253	183.99	183.78	297	293.87	289.91	341	454.04	437.68
254	186.07	185.80	298	296.85	292.77	342	458.61	441.64
255	188.17	187.85	299	299.86	295.64	343	463.24	445.62
256	190.28	189.90	300	302.89	298.53	344	467.93	449.64
257	192.41	191.98	301	305.95	301.45	345	472.68	453.69
258	194.57	194.07	302	309.03	304.39	346	477.49	457.76
259	196.73	196.18	303	312.14	307.35	347	482.36	461.88
260	198.92	198.31	304	315.27	310.33	348	487.30	466.02
261	201.13	200.45	305	318.43	313.33	349	492.31	470.20
262	203.35	202.61	306	321.62	316.36	350	497.37	474.41
263	205.59	204.79	307	324.84	319.41	351	502.51	478.66
264	207.85	206.99	308	328.08	322.48	352	507.71	482.95

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