

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

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
kPa	°C	°C	kPa	°C	°C	kPa	°C	°C
30	-0.63	-1.83	530	83.96	83.23	1030	112.75	112.57
40	5.77	4.54	540	84.71	83.99	1040	113.20	113.03
50	10.97	9.73	550	85.45	84.74	1050	113.65	113.49
60	15.40	14.15	560	86.17	85.47	1060	114.10	113.95
70	19.27	18.02	570	86.89	86.20	1070	114.55	114.40
80	22.72	21.47	580	87.60	86.92	1080	114.99	114.85
90	25.84	24.60	590	88.30	87.63	1090	115.43	115.30
100	28.70	27.46	600	88.99	88.34	1100	115.86	115.75
110	31.34	30.11	610	89.67	89.03	1110	116.29	116.19
120	33.79	32.57	620	90.34	89.71	1120	116.72	116.63
130	36.09	34.88	630	91.01	90.39	1130	117.15	117.07
140	38.26	37.06	640	91.66	91.06	1140	117.57	117.50
150	40.31	39.11	650	92.31	91.72	1150	117.99	117.93
160	42.25	41.07	660	92.95	92.37	1160	118.41	118.36
170	44.10	42.93	670	93.59	93.02	1170	118.83	118.78
180	45.87	44.71	680	94.22	93.66	1180	119.24	119.21
190	47.56	46.41	690	94.84	94.29	1190	119.65	119.63
200	49.18	48.05	700	95.45	94.91	1200	120.06	120.04
210	50.75	49.62	710	96.06	95.53	1210	120.46	120.46
220	52.25	51.14	720	96.66	96.14	1220	120.86	120.87
230	53.70	52.60	730	97.25	96.75	1230	121.26	121.28
240	55.11	54.02	740	97.84	97.35	1240	121.66	121.69
250	56.47	55.40	750	98.42	97.94	1250	122.06	122.09
260	57.79	56.73	760	99.00	98.53	1260	122.45	122.49
270	59.07	58.02	770	99.57	99.11	1270	122.84	122.89
280	60.31	59.28	780	100.13	99.68	1280	123.23	123.29
290	61.53	60.50	790	100.69	100.25	1290	123.61	123.69
300	62.70	61.69	800	101.25	100.82	1300	124.00	124.08
310	63.85	62.85	810	101.79	101.38	1310	124.38	124.47
320	64.98	63.99	820	102.34	101.93	1320	124.76	124.86
330	66.07	65.09	830	102.88	102.48	1330	125.13	125.24
340	67.14	66.17	840	103.41	103.03	1340	125.51	125.63
350	68.18	67.23	850	103.94	103.57	1350	125.88	126.01
360	69.21	68.27	860	104.47	104.10	1360	126.25	126.39
370	70.21	69.28	870	104.99	104.63	1370	126.62	126.77
380	71.19	70.27	880	105.50	105.16	1380	126.98	127.14
390	72.15	71.25	890	106.01	105.68	1390	127.35	127.52
400	73.09	72.20	900	106.52	106.20	1400	127.71	127.89
410	74.02	73.14	910	107.02	106.71	1410	128.07	128.26
420	74.92	74.06	920	107.52	107.22	1420	128.43	128.63
430	75.82	74.96	930	108.01	107.73	1430	128.79	128.99
440	76.69	75.85	940	108.50	108.23	1440	129.14	129.36
450	77.55	76.72	950	108.99	108.72	1450	129.49	129.72
460	78.40	77.58	960	109.47	109.22	1460	129.84	130.08
470	79.23	78.43	970	109.95	109.71	1470	130.19	130.44
480	80.05	79.26	980	110.43	110.19	1480	130.54	130.79
490	80.86	80.07	990	110.90	110.67	1490	130.89	131.15
500	81.65	80.88	1000	111.37	111.15	1500	131.23	131.50
510	82.43	81.67	1010	111.83	111.63	1510	131.57	131.85
520	83.20	82.46	1020	112.29	112.10	1520	131.91	132.20

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kPa	°C	°C	kPa	°C	°C	kPa	°C	°C
1530	132.25	132.55	2050	147.87	148.66	2570	160.54	161.89
1540	132.59	132.90	2060	148.14	148.94	2580	160.76	162.12
1550	132.92	133.24	2070	148.41	149.21	2590	160.98	162.35
1560	133.26	133.58	2080	148.67	149.49	2600	161.20	162.58
1570	133.59	133.93	2090	148.94	149.76	2610	161.42	162.82
1580	133.92	134.27	2100	149.20	150.04	2620	161.64	163.05
1590	134.25	134.60	2110	149.46	150.31	2630	161.85	163.27
1600	134.57	134.94	2120	149.72	150.58	2640	162.07	163.50
1610	134.90	135.27	2130	149.99	150.85	2650	162.28	163.73
1620	135.22	135.61	2140	150.25	151.12	2660	162.50	163.96
1630	135.55	135.94	2150	150.50	151.39	2670	162.71	164.19
1640	135.87	136.27	2160	150.76	151.66	2680	162.92	164.41
1650	136.19	136.60	2170	151.02	151.92	2690	163.13	164.64
1660	136.50	136.92	2180	151.28	152.19	2700	163.35	164.86
1670	136.82	137.25	2190	151.53	152.45	2710	163.56	165.09
1680	137.14	137.57	2200	151.78	152.72	2720	163.76	165.31
1690	137.45	137.90	2210	152.04	152.98	2730	163.97	165.53
1700	137.76	138.22	2220	152.29	153.24	2740	164.18	165.75
1710	138.07	138.54	2230	152.54	153.50	2750	164.39	165.97
1720	138.38	138.86	2240	152.79	153.77	2760	164.59	166.20
1730	138.69	139.17	2250	153.04	154.02	2770	164.80	166.42
1740	138.99	139.49	2260	153.29	154.28	2780	165.00	166.63
1750	139.30	139.80	2270	153.54	154.54	2790	165.20	166.85
1760	139.60	140.12	2280	153.78	154.80	2800	165.40	167.07
1770	139.91	140.43	2290	154.03	155.05	2810	165.61	167.29
1780	140.21	140.74	2300	154.27	155.31	2820	165.81	167.51
1790	140.51	141.05	2310	154.52	155.56	2830	166.01	167.72
1800	140.80	141.36	2320	154.76	155.82	2840	166.21	167.94
1810	141.10	141.66	2330	155.00	156.07	2850	166.41	168.15
1820	141.40	141.97	2340	155.24	156.32	2860	166.60	168.37
1830	141.69	142.27	2350	155.48	156.57	2870	166.80	168.58
1840	141.99	142.57	2360	155.72	156.82	2880	167.00	168.79
1850	142.28	142.88	2370	155.96	157.07	2890	167.20	169.01
1860	142.57	143.18	2380	156.20	157.32	2900	167.39	169.22
1870	142.86	143.47	2390	156.44	157.57	2910	167.59	169.43
1880	143.15	143.77	2400	156.67	157.81	2920	167.78	169.64
1890	143.43	144.07	2410	156.91	158.06	2930	167.97	169.85
1900	143.72	144.36	2420	157.14	158.30	2940	168.16	170.06
1910	144.00	144.66	2430	157.37	158.55	2950	168.35	170.27
1920	144.29	144.95	2440	157.60	158.79	2960	168.54	170.48
1930	144.57	145.24	2450	157.84	159.03	2970	168.73	170.68
1940	144.85	145.53	2460	158.07	159.28	2980	168.92	170.89
1950	145.13	145.82	2470	158.29	159.52	2990	169.11	171.10
1960	145.41	146.11	2480	158.52	159.76	3000	169.30	171.30
1970	145.69	146.40	2490	158.75	160.00	3010	169.48	171.51
1980	145.96	146.68	2500	158.98	160.24	3020	169.67	171.71
1990	146.24	146.97	2510	159.20	160.47	3030	169.85	171.92
2000	146.51	147.25	2520	159.43	160.71	3040	170.04	172.12
2010	146.79	147.54	2530	159.65	160.95	3050	170.22	172.32
2020	147.06	147.82	2540	159.88	161.18	3060	170.40	172.53
2030	147.33	148.10	2550	160.10	161.42	3070	170.59	172.73
2040	147.60	148.38	2560	160.32	161.65	3080	170.77	172.93

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kPa	°C	°C	kPa	°C	°C	kPa	°C	°C
3090	170.95	173.13	3240	173.57	176.07	3390	176.05	178.90
3100	171.13	173.33	3250	173.74	176.27	3400	176.21	179.08
3110	171.31	173.53	3260	173.91	176.46	3410	176.37	179.26
3120	171.49	173.73	3270	174.08	176.65	3420	176.52	179.45
3130	171.67	173.93	3280	174.25	176.84	3430	176.68	179.63
3140	171.84	174.13	3290	174.41	177.03	3440	176.84	179.81
3150	172.02	174.32	3300	174.58	177.22	3450	177.00	179.99
3160	172.19	174.52	3310	174.74	177.41	3460	177.15	180.17
3170	172.37	174.72	3320	174.91	177.59	3470	177.31	180.35
3180	172.54	174.91	3330	175.07	177.78	3480	177.47	180.53
3190	172.72	175.11	3340	175.24	177.97	3490	177.62	180.71
3200	172.89	175.30	3350	175.40	178.16	3500	177.77	180.89
3210	173.06	175.50	3360	175.56	178.34	3510	177.93	181.06
3220	173.23	175.69	3370	175.73	178.53			
3230	173.40	175.88	3380	175.89	178.71			

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

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
°C	kPa	kPa	°C	kPa	kPa	°C	kPa	kPa
0	30.89	32.65	60	277.46	285.89	120	1198.74	1198.96
1	32.34	34.16	61	285.65	294.17	121	1223.55	1223.17
2	33.84	35.74	62	294.01	302.64	122	1248.73	1247.74
3	35.40	37.37	63	302.57	311.29	123	1274.31	1272.67
4	37.01	39.07	64	311.31	320.13	124	1300.28	1297.98
5	38.68	40.82	65	320.25	329.16	125	1326.65	1323.66
6	40.42	42.64	66	329.38	338.38	126	1353.43	1349.71
7	42.22	44.52	67	338.72	347.79	127	1380.61	1376.15
8	44.08	46.47	68	348.25	357.40	128	1408.21	1402.97
9	46.01	48.48	69	357.99	367.21	129	1436.22	1430.17
10	48.00	50.57	70	367.93	377.22	130	1464.66	1457.78
11	50.06	52.72	71	378.09	387.44	131	1493.53	1485.77
12	52.20	54.95	72	388.46	397.87	132	1522.82	1514.17
13	54.41	57.25	73	399.04	408.50	133	1552.55	1542.97
14	56.69	59.63	74	409.84	419.36	134	1582.73	1572.18
15	59.05	62.09	75	420.87	430.42	135	1613.35	1601.80
16	61.48	64.63	76	432.12	441.71	136	1644.43	1631.84
17	64.00	67.25	77	443.60	453.21	137	1675.97	1662.30
18	66.59	69.95	78	455.30	464.94	138	1707.97	1693.19
19	69.28	72.74	79	467.25	476.90	139	1740.44	1724.51
20	72.04	75.61	80	479.43	489.09	140	1773.38	1756.26
21	74.90	78.57	81	491.85	501.51	141	1806.82	1788.45
22	77.84	81.63	82	504.51	514.16	142	1840.74	1821.08
23	80.87	84.78	83	517.42	527.06	143	1875.16	1854.16
24	84.00	88.02	84	530.58	540.19	144	1910.08	1887.69
25	87.23	91.36	85	543.99	553.57	145	1945.52	1921.68
26	90.55	94.80	86	557.66	567.20	146	1981.47	1956.14
27	93.97	98.33	87	571.59	581.07	147	2017.96	1991.06
28	97.49	101.98	88	585.78	595.20	148	2054.99	2026.45
29	101.12	105.72	89	600.23	609.59	149	2092.56	2062.33
30	104.85	109.58	90	614.96	624.23	150	2130.70	2098.68
31	108.69	113.54	91	629.95	639.13	151	2169.40	2135.53
32	112.64	117.62	92	645.22	654.30	152	2208.69	2172.87
33	116.70	121.80	93	660.77	669.74	153	2248.58	2210.71
34	120.88	126.11	94	676.61	685.44	154	2289.07	2249.05
35	125.17	130.53	95	692.72	701.42	155	2330.19	2287.91
36	129.59	135.07	96	709.13	717.68	156	2371.96	2327.29
37	134.12	139.73	97	725.83	734.21	157	2414.38	2367.19
38	138.78	144.52	98	742.82	751.03	158	2457.48	2407.63
39	143.57	149.43	99	760.12	768.14	159	2501.29	2448.60
40	148.48	154.47	100	777.71	785.53	160	2545.82	2490.12
41	153.52	159.64	101	795.61	803.22	161	2591.10	2532.20
42	158.70	164.95	102	813.82	821.19	162	2637.17	2574.83
43	164.01	170.39	103	832.35	839.47	163	2684.04	2618.04
44	169.46	175.97	104	851.19	858.05	164	2731.76	2661.82
45	175.05	181.69	105	870.35	876.94	165	2780.37	2706.19
46	180.79	187.55	106	889.84	896.13	166	2829.90	2751.15
47	186.66	193.55	107	909.65	915.63	167	2880.40	2796.72
48	192.69	199.71	108	929.79	935.45	168	2931.93	2842.91
49	198.87	206.01	109	950.27	955.58	169	2984.52	2889.72
50	205.20	212.46	110	971.09	976.03	170	3038.25	2937.17
51	211.68	219.07	111	992.25	996.81	171	3093.17	2985.28
52	218.32	225.84	112	1013.76	1017.92	172	3149.33	3034.05
53	225.13	232.76	113	1035.61	1039.36	173	3206.79	3083.50
54	232.09	239.85	114	1057.82	1061.13	174	3265.59	3133.66
55	239.22	247.09	115	1080.39	1083.24	175	3325.79	3184.53
56	246.53	254.51	116	1103.32	1105.69	176	3387.40	3236.14
57	254.00	262.09	117	1126.62	1128.48	177	3450.46	3288.51
58	261.64	269.85	118	1150.29	1151.62	178	3514.96	3341.68
59	269.46	277.78	119	1174.33	1175.12			

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