

Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)
-2	-59.5	-49.2	54	14.1	24.3	110	48.0	58.0	166	71.8	81.4
-1	-56.7	-46.5	55	14.8	25.1	111	48.5	58.4	167	72.2	81.8
0	-54.1	-43.9	56	15.6	25.9	112	48.9	58.9	168	72.6	82.2
1	-51.7	-41.4	57	16.3	26.6	113	49.4	59.4	169	72.9	82.5
2	-49.3	-39.1	58	17.1	27.3	114	49.9	59.9	170	73.3	82.9
3	-47.1	-36.8	59	17.8	28.1	115	50.4	60.4	171	73.7	83.3
4	-45.0	-34.7	60	18.5	28.8	116	50.9	60.8	172	74.0	83.6
5	-42.9	-32.6	61	19.3	29.5	117	51.3	61.3	173	74.4	84.0
6	-41.0	-30.7	62	20.0	30.2	118	51.8	61.8	174	74.8	84.3
7	-39.1	-28.8	63	20.7	30.9	119	52.3	62.2	175	75.1	84.7
8	-37.2	-27.0	64	21.4	31.6	120	52.7	62.7	176	75.5	85.0
9	-35.5	-25.2	65	22.1	32.3	121	53.2	63.1	177	75.8	85.4
10	-33.8	-23.5	66	22.7	33.0	122	53.7	63.6	178	76.2	85.7
11	-32.1	-21.8	67	23.4	33.6	123	54.1	64.0	179	76.5	86.1
12	-30.5	-20.2	68	24.1	34.3	124	54.6	64.5	180	76.9	86.4
13	-29.0	-18.6	69	24.8	35.0	125	55.0	64.9	181	77.2	86.8
14	-27.4	-17.1	70	25.4	35.6	126	55.5	65.4	182	77.6	87.1
15	-26.0	-15.7	71	26.1	36.3	127	55.9	65.8	183	78.0	87.5
16	-24.5	-14.2	72	26.7	36.9	128	56.4	66.3	184	78.3	87.8
17	-23.1	-12.8	73	27.3	37.5	129	56.8	66.7	185	78.6	88.1
18	-21.8	-11.4	74	28.0	38.2	130	57.3	67.1	186	79.0	88.5
19	-20.4	-10.1	75	28.6	38.8	131	57.7	67.6	187	79.3	88.8
20	-19.1	-8.8	76	29.2	39.4	132	58.1	68.0	188	79.7	89.1
21	-17.8	-7.5	77	29.9	40.0	133	58.6	68.4	189	80.0	89.5
22	-16.6	-6.3	78	30.5	40.6	134	59.0	68.8	190	80.4	89.8
23	-15.4	-5.0	79	31.1	41.2	135	59.4	69.3	191	80.7	90.1
24	-14.2	-3.8	80	31.7	41.8	136	59.9	69.7	192	81.0	90.5
25	-13.0	-2.7	81	32.3	42.4	137	60.3	70.1	193	81.4	90.8
26	-11.8	-1.5	82	32.9	43.0	138	60.7	70.5	194	81.7	91.1
27	-10.7	-0.4	83	33.5	43.6	139	61.1	70.9	195	82.1	91.5
28	-9.6	0.7	84	34.1	44.2	140	61.5	71.4	196	82.4	91.8
29	-8.5	1.8	85	34.6	44.8	141	62.0	71.8	197	82.7	92.1
30	-7.4	2.9	86	35.2	45.4	142	62.4	72.2	198	83.1	92.4
31	-6.4	3.9	87	35.8	45.9	143	62.8	72.6	199	83.4	92.8
32	-5.3	5.0	88	36.4	46.5	144	63.2	73.0	200	83.7	93.1
33	-4.3	6.0	89	36.9	47.0	145	63.6	73.4	201	84.0	93.4
34	-3.3	7.0	90	37.5	47.6	146	64.0	73.8	202	84.4	93.7
35	-2.3	8.0	91	38.1	48.2	147	64.4	74.2	203	84.7	94.0
36	-1.4	9.0	92	38.6	48.7	148	64.8	74.6	204	85.0	94.4
37	-0.4	9.9	93	39.2	49.2	149	65.2	75.0	205	85.3	94.7
38	0.6	10.9	94	39.7	49.8	150	65.6	75.4	206	85.7	95.0
39	1.5	11.8	95	40.2	50.3	151	66.0	75.8	207	86.0	95.3
40	2.4	12.7	96	40.8	50.9	152	66.4	76.2	208	86.3	95.6
41	3.3	13.6	97	41.3	51.4	153	66.8	76.5	209	86.6	95.9
42	4.2	14.5	98	41.8	51.9	154	67.2	76.9	210	86.9	96.2
43	5.1	15.4	99	42.4	52.4	155	67.6	77.3	211	87.3	96.5
44	6.0	16.2	100	42.9	53.0	156	68.0	77.7	212	87.6	96.9
45	6.8	17.1	101	43.4	53.5	157	68.4	78.1	213	87.9	97.2
46	7.7	17.9	102	43.9	54.0	158	68.8	78.5	214	88.2	97.5
47	8.5	18.8	103	44.5	54.5	159	69.2	78.8	215	88.5	97.8
48	9.3	19.6	104	45.0	55.0	160	69.5	79.2	216	88.8	98.1
49	10.1	20.4	105	45.5	55.5	161	69.9	79.6	217	89.1	98.4
50	10.9	21.2	106	46.0	56.0	162	70.3	80.0	218	89.5	98.7
51	11.7	22.0	107	46.5	56.5	163	70.7	80.3	219	89.8	99.0
52	12.5	22.8	108	47.0	57.0	164	71.1	80.7	220	90.1	99.3
53	13.3	23.6	109	47.5	57.5	165	71.4	81.1	221	90.4	99.6

Opteon™ XL40 (R-454A) Pressure-Temperature Data (Eng)

Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)	Pressure (psig)	Sat Liq T (°F)	Sat Vap T (°F)
222	90.7	99.9	278	106.5	115.2	334	120.3	128.4	390	132.5	139.9
223	91.0	100.2	279	106.8	115.5	335	120.5	128.6	391	132.7	140.1
224	91.3	100.5	280	107.1	115.7	336	120.8	128.8	392	132.9	140.3
225	91.6	100.8	281	107.3	116.0	337	121.0	129.0	393	133.1	140.5
226	91.9	101.1	282	107.6	116.2	338	121.2	129.2	394	133.3	140.7
227	92.2	101.4	283	107.8	116.5	339	121.4	129.5	395	133.6	140.9
228	92.5	101.6	284	108.1	116.7	340	121.7	129.7	396	133.8	141.1
229	92.8	101.9	285	108.4	117.0	341	121.9	129.9	397	134.0	141.3
230	93.1	102.2	286	108.6	117.2	342	122.1	130.1	398	134.2	141.5
231	93.4	102.5	287	108.9	117.4	343	122.4	130.3	399	134.4	141.7
232	93.7	102.8	288	109.1	117.7	344	122.6	130.5	400	134.6	141.8
233	94.0	103.1	289	109.4	117.9	345	122.8	130.7			
234	94.3	103.4	290	109.6	118.2	346	123.0	131.0			
235	94.6	103.7	291	109.9	118.4	347	123.3	131.2			
236	94.9	104.0	292	110.1	118.7	348	123.5	131.4			
237	95.2	104.2	293	110.4	118.9	349	123.7	131.6			
238	95.5	104.5	294	110.7	119.2	350	123.9	131.8			
239	95.8	104.8	295	110.9	119.4	351	124.1	132.0			
240	96.1	105.1	296	111.2	119.6	352	124.4	132.2			
241	96.3	105.4	297	111.4	119.9	353	124.6	132.4			
242	96.6	105.6	298	111.7	120.1	354	124.8	132.7			
243	96.9	105.9	299	111.9	120.4	355	125.0	132.9			
244	97.2	106.2	300	112.2	120.6	356	125.3	133.1			
245	97.5	106.5	301	112.4	120.8	357	125.5	133.3			
246	97.8	106.8	302	112.7	121.1	358	125.7	133.5			
247	98.1	107.0	303	112.9	121.3	359	125.9	133.7			
248	98.4	107.3	304	113.1	121.5	360	126.1	133.9			
249	98.6	107.6	305	113.4	121.8	361	126.4	134.1			
250	98.9	107.9	306	113.6	122.0	362	126.6	134.3			
251	99.2	108.1	307	113.9	122.2	363	126.8	134.5			
252	99.5	108.4	308	114.1	122.5	364	127.0	134.7			
253	99.8	108.7	309	114.4	122.7	365	127.2	134.9			
254	100.0	108.9	310	114.6	122.9	366	127.4	135.1			
255	100.3	109.2	311	114.9	123.2	367	127.7	135.3			
256	100.6	109.5	312	115.1	123.4	368	127.9	135.5			
257	100.9	109.7	313	115.3	123.6	369	128.1	135.8			
258	101.2	110.0	314	115.6	123.9	370	128.3	136.0			
259	101.4	110.3	315	115.8	124.1	371	128.5	136.2			
260	101.7	110.5	316	116.1	124.3	372	128.7	136.4			
261	102.0	110.8	317	116.3	124.6	373	128.9	136.6			
262	102.3	111.1	318	116.5	124.8	374	129.2	136.8			
263	102.5	111.3	319	116.8	125.0	375	129.4	137.0			
264	102.8	111.6	320	117.0	125.2	376	129.6	137.2			
265	103.1	111.9	321	117.3	125.5	377	129.8	137.4			
266	103.3	112.1	322	117.5	125.7	378	130.0	137.6			
267	103.6	112.4	323	117.7	125.9	379	130.2	137.8			
268	103.9	112.6	324	118.0	126.1	380	130.4	138.0			
269	104.2	112.9	325	118.2	126.4	381	130.6	138.2			
270	104.4	113.2	326	118.4	126.6	382	130.9	138.4			
271	104.7	113.4	327	118.7	126.8	383	131.1	138.6			
272	105.0	113.7	328	118.9	127.0	384	131.3	138.7			
273	105.2	113.9	329	119.1	127.3	385	131.5	138.9			
274	105.5	114.2	330	119.4	127.5	386	131.7	139.1			
275	105.7	114.4	331	119.6	127.7	387	131.9	139.3			
276	106.0	114.7	332	119.8	127.9	388	132.1	139.5			
277	106.3	114.9	333	120.1	128.1	389	132.3	139.7			

Opteon™ XL40 (R-454A) Temperature-Pressure Data (Eng)

Temp (°F)	Sat Liq P (psig)	Sat Vap P (psig)	Temp (°F)	Sat Liq P (psig)	Sat Vap P (psig)	Temp (°F)	Sat Liq P (psig)	Sat Vap P (psig)	Temp (°F)	Sat Liq P (psig)	Sat Vap P (psig)
-40	6.5	1.6	18	59.3	46.1	76	177.5	151.6	134	397.2	360.5
-39	7.0	2.0	19	60.6	47.3	77	180.3	154.2	135	402.1	365.3
-38	7.6	2.5	20	62.0	48.5	78	183.1	156.8	136	407.1	370.3
-37	8.1	2.9	21	63.5	49.7	79	186.0	159.4	137	412.1	375.2
-36	8.7	3.4	22	64.9	51.0	80	188.9	162.1	138	417.1	380.2
-35	9.3	3.9	23	66.4	52.3	81	191.9	164.8	139	422.2	385.3
-34	9.9	4.3	24	67.9	53.6	82	194.8	167.5	140	427.4	390.4
-33	10.5	4.8	25	69.4	54.9	83	197.8	170.3	141	432.5	395.6
-32	11.1	5.3	26	70.9	56.2	84	200.9	173.1	142	437.7	400.8
-31	11.7	5.8	27	72.5	57.5	85	203.9	175.9	143	443.0	406.1
-30	12.3	6.4	28	74.0	58.9	86	207.0	178.8	144	448.3	411.5
-29	13.0	6.9	29	75.6	60.3	87	210.2	181.7	145	453.7	416.9
-28	13.6	7.4	30	77.2	61.7	88	213.3	184.6	146	459.1	422.4
-27	14.3	8.0	31	78.9	63.1	89	216.5	187.6	147	464.5	427.9
-26	15.0	8.5	32	80.5	64.6	90	219.8	190.6	148	470.0	433.5
-25	15.7	9.1	33	82.2	66.1	91	223.0	193.6	149	475.5	439.1
-24	16.4	9.7	34	83.9	67.6	92	226.3	196.7	150	481.1	444.8
-23	17.1	10.3	35	85.6	69.1	93	229.6	199.8	151	486.7	450.6
-22	17.8	10.9	36	87.4	70.6	94	233.0	202.9	152	492.4	456.5
-21	18.6	11.5	37	89.1	72.2	95	236.4	206.1	153	498.1	462.4
-20	19.3	12.1	38	90.9	73.7	96	239.8	209.3	154	503.8	468.3
-19	20.1	12.8	39	92.7	75.3	97	243.3	212.5	155	509.6	474.4
-18	20.9	13.4	40	94.6	76.9	98	246.8	215.8	156	515.5	480.5
-17	21.7	14.1	41	96.4	78.6	99	250.3	219.1	157	521.4	486.7
-16	22.5	14.8	42	98.3	80.3	100	253.9	222.4	158	527.3	493.0
-15	23.3	15.5	43	100.2	81.9	101	257.5	225.8	159	533.3	499.3
-14	24.1	16.2	44	102.1	83.6	102	261.1	229.2	160	539.3	505.7
-13	25.0	16.9	45	104.1	85.4	103	264.8	232.7	161	545.4	512.2
-12	25.9	17.6	46	106.1	87.1	104	268.5	236.2	162	551.5	518.8
-11	26.7	18.3	47	108.1	88.9	105	272.2	239.7	163	557.7	525.4
-10	27.6	19.1	48	110.1	90.7	106	276.0	243.3	164	563.9	532.2
-9	28.5	19.8	49	112.1	92.5	107	279.8	246.9	165	570.1	539.0
-8	29.5	20.6	50	114.2	94.4	108	283.6	250.5	166	576.4	546.0
-7	30.4	21.4	51	116.3	96.3	109	287.5	254.2	167	582.8	553.0
-6	31.4	22.2	52	118.4	98.2	110	291.4	258.0	168	589.1	560.2
-5	32.3	23.0	53	120.6	100.1	111	295.4	261.7	169	595.5	567.4
-4	33.3	23.9	54	122.8	102.0	112	299.4	265.6	170	602.0	574.8
-3	34.3	24.7	55	125.0	104.0	113	303.4	269.4	156	515.5	480.5
-2	35.3	25.6	56	127.2	106.0	114	307.5	273.3	157	521.4	486.7
-1	36.4	26.5	57	129.4	108.0	115	311.6	277.2	158	527.3	493.0
0	37.4	27.3	58	131.7	110.1	116	315.8	281.2	159	533.3	499.3
1	38.5	28.3	59	134.0	112.2	117	320.0	285.2	160	539.3	505.7
2	39.6	29.2	60	136.4	114.3	118	324.2	289.3	161	545.4	512.2
3	40.7	30.1	61	138.7	116.4	119	328.4	293.4	162	551.5	518.8
4	41.8	31.1	62	141.1	118.5	120	332.8	297.5	163	557.7	525.4
5	42.9	32.0	63	143.5	120.7	121	337.1	301.7	164	563.9	532.2
6	44.1	33.0	64	146.0	122.9	122	341.5	306.0	165	570.1	539.0
7	45.2	34.0	65	148.4	125.2	123	345.9	310.3	166	576.4	546.0
8	46.4	35.0	66	150.9	127.4	124	350.4	314.6	167	582.8	553.0
9	47.6	36.1	67	153.5	129.7	125	354.9	319.0	168	589.1	560.2
10	48.8	37.1	68	156.0	132.0	126	359.4	323.4	169	595.5	567.4
11	50.1	38.2	69	158.6	134.4	127	364.0	327.9	170	602.0	574.8
12	51.3	39.2	70	161.2	136.7	128	368.6	332.4			
13	52.6	40.3	71	163.8	139.1	129	373.3	336.9			
14	53.9	41.4	72	166.5	141.6	130	378.0	341.5			
15	55.2	42.6	73	169.2	144.0	131	382.7	346.2			
16	56.5	43.7	74	171.9	146.5	132	387.5	350.9			
17	57.9	44.9	75	174.7	149.0	133	392.3	355.7			

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