

R-454B Pressure-Temperature Chart

Saturation pressure in psig · liquid = bubble, vapor = dew · complete table from -40°F to 150°F
Thermodynamic Properties of Opteon XL41 (R-454B); original psia values converted to psig by subtracting 14.696 psi.

A2L REFRIGERANT · Follow required service procedures and equipment instructions.

-40°F – 7°F			8°F – 55°F			56°F – 103°F			104°F – 150°F		
Temp	Liquid	Vapor	Temp	Liquid	Vapor	Temp	Liquid	Vapor	Temp	Liquid	Vapor
-40°F	9.53	8.39	8°F	55.72	52.73	56°F	150.32	144.12	104°F	318.27	308.04
-39°F	10.14	8.98	9°F	57.12	54.08	57°F	152.98	146.70	105°F	322.76	312.45
-38°F	10.77	9.57	10°F	58.54	55.44	58°F	155.66	149.30	106°F	327.29	316.90
-37°F	11.40	10.19	11°F	59.98	56.83	59°F	158.38	151.94	107°F	331.86	321.40
-36°F	12.06	10.81	12°F	61.44	58.24	60°F	161.14	154.61	108°F	336.49	325.95
-35°F	12.72	11.44	13°F	62.93	59.67	61°F	163.92	157.32	109°F	341.16	330.55
-34°F	13.40	12.09	14°F	64.43	61.12	62°F	166.74	160.05	110°F	345.87	335.19
-33°F	14.09	12.75	15°F	65.96	62.59	63°F	169.59	162.82	111°F	350.63	339.88
-32°F	14.79	13.43	16°F	67.51	64.08	64°F	172.47	165.62	112°F	355.44	344.62
-31°F	15.50	14.11	17°F	69.08	65.59	65°F	175.39	168.46	113°F	360.30	349.41
-30°F	16.23	14.81	18°F	70.68	67.13	66°F	178.34	171.32	114°F	365.20	354.25
-29°F	16.98	15.52	19°F	72.30	68.69	67°F	181.33	174.23	115°F	370.16	359.13
-28°F	17.73	16.25	20°F	73.94	70.27	68°F	184.35	177.16	116°F	375.16	364.07
-27°F	18.50	16.99	21°F	75.60	71.88	69°F	187.41	180.13	117°F	380.21	369.06
-26°F	19.29	17.74	22°F	77.29	73.51	70°F	190.50	183.14	118°F	385.31	374.10
-25°F	20.09	18.51	23°F	79.00	75.16	71°F	193.62	186.18	119°F	390.46	379.19
-24°F	20.90	19.29	24°F	80.74	76.83	72°F	196.78	189.25	120°F	395.66	384.33
-23°F	21.73	20.08	25°F	82.50	78.53	73°F	199.98	192.36	121°F	400.90	389.52
-22°F	22.57	20.89	26°F	84.28	80.25	74°F	203.21	195.51	122°F	406.20	394.77
-21°F	23.43	21.71	27°F	86.09	82.00	75°F	206.48	198.69	123°F	411.56	400.07
-20°F	24.31	22.55	28°F	87.93	83.77	76°F	209.78	201.91	124°F	416.96	405.43
-19°F	25.20	23.40	29°F	89.79	85.56	77°F	213.13	205.17	125°F	422.41	410.83
-18°F	26.10	24.27	30°F	91.67	87.38	78°F	216.51	208.46	126°F	427.92	416.30
-17°F	27.02	25.15	31°F	93.58	89.22	79°F	219.92	211.79	127°F	433.48	421.82
-16°F	27.96	26.05	32°F	95.52	91.09	80°F	223.38	215.16	128°F	439.09	427.39
-15°F	28.91	26.97	33°F	97.48	92.99	81°F	226.87	218.56	129°F	444.75	433.02
-14°F	29.88	27.90	34°F	99.47	94.91	82°F	230.40	222.01	130°F	450.47	438.71
-13°F	30.87	28.84	35°F	101.48	96.85	83°F	233.97	225.49	131°F	456.25	444.45
-12°F	31.87	29.80	36°F	103.53	98.83	84°F	237.57	229.01	132°F	462.07	450.26
-11°F	32.89	30.78	37°F	105.60	100.83	85°F	241.22	232.57	133°F	467.96	456.12
-10°F	33.92	31.78	38°F	107.69	102.85	86°F	244.90	236.17	134°F	473.90	462.04
-9°F	34.98	32.79	39°F	109.81	104.90	87°F	248.63	239.81	135°F	479.89	468.02
-8°F	36.05	33.82	40°F	111.96	106.98	88°F	252.39	243.48	136°F	485.94	474.06
-7°F	37.14	34.86	41°F	114.14	109.09	89°F	256.20	247.20	137°F	492.05	480.16
-6°F	38.24	35.93	42°F	116.35	111.22	90°F	260.04	250.96	138°F	498.21	486.32
-5°F	39.37	37.01	43°F	118.58	113.38	91°F	263.93	254.76	139°F	504.43	492.55
-4°F	40.51	38.11	44°F	120.85	115.57	92°F	267.85	258.60	140°F	510.71	498.84
-3°F	41.67	39.22	45°F	123.14	117.79	93°F	271.82	262.49	141°F	517.05	505.19
-2°F	42.85	40.36	46°F	125.46	120.04	94°F	275.83	266.41	142°F	523.45	511.61
-1°F	44.05	41.51	47°F	127.81	122.31	95°F	279.88	270.38	143°F	529.91	518.09
0°F	45.27	42.68	48°F	130.19	124.62	96°F	283.97	274.39	144°F	536.43	524.64
1°F	46.51	43.87	49°F	132.60	126.95	97°F	288.11	278.44	145°F	543.00	531.26
2°F	47.76	45.08	50°F	135.04	129.31	98°F	292.29	282.54	146°F	549.64	537.95
3°F	49.04	46.30	51°F	137.51	131.70	99°F	296.51	286.68	147°F	556.34	544.70
4°F	50.34	47.55	52°F	140.01	134.13	100°F	300.77	290.86	148°F	563.11	551.52
5°F	51.65	48.82	53°F	142.54	136.58	101°F	305.08	295.09	149°F	569.93	558.42
6°F	52.99	50.10	54°F	145.10	139.06	102°F	309.43	299.36	150°F	576.82	565.39
7°F	54.34	51.41	55°F	147.70	141.58	103°F	313.83	303.68			

Source: Thermodynamic Properties of Opteon XL41 (R-454B); original psia values converted to psig by subtracting 14.696 psi.
Range: -40°F through 150°F, one-degree increments. Intermediate lookup values are linearly interpolated; no extrapolation is provided.
Saturation reference only, not a charging target. Follow equipment instructions and verify operating conditions.
R-454B is A2L. Follow required A2L service procedures and the equipment manufacturer's instructions.