

Conversion Table Fahrenheit/Celcius

°C	↓	°F	°C	↓	°F	°C	↓	°F	°C	↓	°F	°C	↓	°F
-156.7	-250	-418	-23.3	-10	14.0	10.0	50	122.0	43.3	110	230.0	76.7	170	338.0
-151.1	-240	-400	-22.8	-9	15.8	10.6	51	123.8	43.9	111	321.8	77.2	171	339.8
-145.6	-230	-382	-22.2	-8	17.6	11.1	52	125.6	44.4	112	233.6	77.8	172	341.6
-140.0	-230	-364	-21.7	-7	19.4	11.7	53	127.4	45.0	113	235.4	78.3	173	343.4
-134.4	-210	-346	-21.1	-6	21.2	12.2	54	129.2	45.6	114	237.2	78.9	174	345.2
-128.9	-200	-328	-20.6	-5	23.0	12.8	55	131.0	46.1	115	239.0	79.4	175	347.0
-123.3	-190	-310	-20.0	-4	24.8	13.3	56	132.8	46.7	116	240.8	80.0	176	348.8
-117.8	-180	-292	-19.4	-3	26.6	13.9	57	134.6	47.2	117	242.6	80.6	177	350.6
-112.2	-170	-274	-18.9	-2	28.4	14.4	58	136.4	47.8	118	244.4	81.1	178	352.4
-106.7	-160	-256	-18.3	-1	30.2	15.0	59	138.2	48.3	119	246.2	81.7	179	354.2
-101.1	-150	-238	-17.8	0	32.0	15.6	60	140.0	48.9	120	248.0	82.2	180	355.0
-95.6	-140	-220	-17.2	1	33.8	16.1	61	141.8	49.4	121	249.8	82.8	181	357.8
-90.0	-130	-202	-16.7	2	35.6	16.7	62	143.6	50.0	122	251.6	83.3	182	359.6
-84.4	-120	-184	-16.1	3	37.4	17.2	63	145.4	50.6	123	253.4	83.9	183	361.4
-78.9	-110	-166	-15.6	4	39.2	17.8	64	147.2	51.1	124	255.2	84.4	184	363.2
-73.3	-100	-148	-15.0	5	41.0	18.3	65	149.0	51.7	125	257.0	85.0	185	365.0
-67.8	-90	-130	-14.4	6	42.8	18.9	66	150.8	52.2	126	258.8	85.6	186	366.8
-62.2	-80	-112	-13.9	7	44.6	19.4	67	152.6	52.8	127	260.6	86.1	187	368.6
-56.7	-70	-94	-13.3	8	46.4	20.0	68	154.4	53.3	128	262.4	86.7	188	370.2
-51.1	-60	-76	-12.8	9	48.2	20.6	69	156.2	53.9	129	264.2	87.2	189	372.2
-45.6	-50	-58.0	-12.2	10	50.0	21.1	70	158.0	54.4	130	266.0	87.8	190	374.0
-45.0	-49	-56.2	-11.7	11	51.8	21.7	71	159.8	55.0	131	267.8	88.3	191	375.8
-44.4	-48	-54.4	-11.1	12	53.6	22.2	72	161.6	55.6	132	269.6	88.9	192	377.6
-43.9	-47	-52.6	-10.6	13	55.4	22.8	73	163.4	56.1	133	271.4	89.4	193	379.4
-43.3	-46	-50.8	-10.0	14	57.2	23.3	74	165.2	56.7	134	273.2	90.0	194	381.2
-42.8	-45	-49.0	-9.4	15	59.0	23.9	75	167.0	57.2	135	275.0	90.6	195	383.0
-42.2	-44	-47.2	-8.9	16	60.8	24.4	76	168.8	57.8	136	276.8	91.1	196	384.8
-41.7	-43	-45.4	-8.3	17	62.6	25.0	77	170.6	58.3	137	278.6	91.7	197	386.6
-41.1	-42	-43.6	-7.8	18	64.4	25.6	78	172.4	58.9	138	280.4	92.2	198	388.4
-40.6	-41	-41.8	-7.2	19	66.2	26.1	79	174.2	59.4	139	282.2	92.8	199	390.2
-40.0	-40	-40.0	-6.7	20	68.0	26.7	80	176.0	60.0	140	284.0	93.3	200	392.0
-39.4	-39	-38.2	-6.1	21	69.8	27.2	81	177.8	60.6	141	285.8	93.9	201	393.8
-38.9	-38	-36.4	-5.6	22	71.6	27.8	82	179.6	61.1	142	287.6	94.4	202	395.6
-38.3	-37	-34.6	-5.0	23	73.4	28.3	83	181.4	61.7	143	289.4	95.0	203	397.4
-37.8	-36	-32.8	-4.4	24	75.2	28.9	84	183.2	62.2	144	291.2	95.6	204	399.2
-37.2	-35	-31.0	-3.9	25	77.0	29.4	85	185.0	62.8	145	293.0	96.1	205	401.0
-36.7	-34	-29.2	-3.3	26	78.8	30.0	86	186.8	63.3	146	294.8	96.7	206	402.8
-36.1	-33	-27.4	-2.8	27	80.6	30.6	87	188.6	63.9	147	296.6	97.2	207	404.6
-35.6	-32	-25.6	-2.2	28	82.4	31.1	88	190.4	64.4	148	298.4	97.8	208	406.4
-35.0	-31	-23.8	-1.7	29	84.2	31.7	89	192.2	65.0	149	300.2	98.3	209	408.2
-34.4	-30	-22.0	-1.1	30	86.0	32.2	90	194.0	65.6	150	302.0	98.9	210	410.0
-33.9	-29	-20.2	-0.6	31	87.8	32.8	91	195.8	66.1	151	303.8	99.4	211	411.8
-33.3	-28	-18.4	0	32	89.6	33.3	92	197.6	66.7	152	305.6	100.0	212	413.6
-32.8	-27	-16.6	0.6	33	91.4	33.9	93	199.4	67.2	153	307.4			
-32.2	-26	-14.8	1.1	34	93.2	34.4	94	201.2	67.8	154	309.2			
-31.7	-25	-13.0	1.7	35	95.0	35.0	95	203.0	68.3	155	311.0			
-31.1	-24	-11.2	2.2	36	96.8	35.6	96	204.8	68.9	156	312.8			
-30.6	-23	-9.4	2.8	37	98.6	36.1	97	206.6	69.4	157	314.6			
-30.0	-22	-7.6	3.3	38	100.4	36.7	98	208.4	70.0	158	316.4			
-29.4	-21	-5.8	3.9	39	102.2	37.2	99	210.2	70.6	159	318.2			
-28.9	-20	-4.0	4.4	40	104.0	37.8	100	212.0	71.1	160	320.0			
-28.3	-19	-2.2	5.0	41	105.8	38.3	101	213.8	71.7	161	321.8			
-27.8	-18	-0.4	5.6	42	107.6	38.9	102	215.6	72.2	162	323.6			
-27.2	-17	1.4	6.1	43	109.4	39.4	103	217.4	72.8	163	325.4			
-26.7	-16	3.2	6.7	44	111.2	40.0	104	219.2	73.3	164	327.2			
-26.1	-15	5.0	7.2	45	113.0	40.6	105	221.0	73.9	165	329.0			
-25.6	-14	6.8	7.8	46	114.8	41.1	106	222.8	74.4	166	330.8			
-25.0	-13	8.6	8.3	47	116.6	41.7	107	224.6	75.0	167	332.6			
-24.4	-12	10.4	8.9	48	118.4	42.2	108	226.4	75.6	168	334.4			
-23.9	-11	12.2	9.4	49	120.2	42.8	109	228.2	76.1	169	336.2			

Conversion Temp. Difference		
°C	↓	°F
0.56	1	1.8
1.11	2	3.6
1.67	3	5.4
2.22	4	7.2
2.78	5	9.0
3.33	6	10.8
3.89	7	12.6
4.44	8	14.4
5.00	9	16.2
5.56	10	18.0
6.12	11	19.8
6.66	12	21.6

Example: -10°C = 14.0 °F or -10°F = -23.3 °C

Conversion Table

psi/bar

bar	↓	psi
0.0000	0.0	0.0000
0.0069	0.1	1.4504
0.0138	0.2	2.9008
0.0207	0.3	4.3511
0.0276	0.4	5.8015

0.0345	0.5	7.2519
0.0414	0.6	8.7023
0.0483	0.7	10.1526
0.0552	0.8	11.6030
0.0621	0.9	13.0534

0.0689	1	14.5038
0.1379	2	29.0075
0.2068	3	43.5113
0.2758	4	58.0151
0.3447	5	72.5188

0.4134	6	87.0226
0.4826	7	101.5264
0.5516	8	116.0301
0.6205	9	130.5339
0.6895	10	145.0377

0.7584	11	159.5415
0.8274	12	174.0452
0.8963	13	188.5490
0.9653	14	203.0528
1.0342	15	217.5565

1.1032	16	232.0603
1.1721	17	246.5641
1.2411	18	261.0678
1.3100	19	275.5716
1.3790	20	290.0754

1.4479	21	304.5791
1.5168	22	319.0829
1.5857	23	333.5867
1.6547	24	348.0904
1.7237	25	362.5942

1.7926	26	377.0980
1.8616	27	391.6017
1.9305	28	406.1055
1.9995	29	420.6093
2.0684	30	435.1130

2.1374	31	449.6168
2.2063	32	464.1206
2.2753	33	478.6244
2.3442	34	493.1281
2.4132	35	507.6319

2.4821	36	522.1357
2.5511	37	536.6394
2.6200	38	551.1432
2.6890	39	565.6470
2.7579	40	580.1507

2.8269	41	594.6545
2.8959	42	609.1583
2.9647	43	623.6620
3.0337	44	638.1658
3.1026	45	652.6696

bar	↓	psi
3.1716	46	667.1733
3.2405	47	681.6771
3.3095	48	696.1809
3.3784	49	710.6846
3.4474	50	725.1884

3.5163	51	739.6922
3.5853	52	754.1959
3.6542	53	768.6997
3.7232	54	783.2035
3.7921	55	797.7072

3.8611	56	812.2110
3.9300	57	826.7148
3.9990	58	841.2186
4.0679	59	855.7223
4.1369	60	870.2261

4.2058	61	884.7299
4.2748	62	899.2336
4.3437	63	913.7374
4.4126	64	928.2412
4.4816	65	942.7449

4.5505	66	957.2487
4.6195	67	971.7525
4.6884	68	986.2562
4.7574	69	1000.7600
4.8263	70	1015.2638

4.8953	71	1029.7675
4.9642	72	1044.2713
5.0332	73	1058.7751
5.1021	74	1073.2788
5.1711	75	1087.7826

5.2400	76	1102.2864
5.3090	77	1116.7901
5.3779	78	1131.2934
5.4469	79	1145.7977
5.5158	80	1160.3014

5.5848	81	1174.8052
5.6537	82	1189.3090
5.7227	83	1203.8127
5.7916	84	1218.3165
5.8605	85	1232.8205

5.9295	86	1247.3241
5.9984	87	1261.8278
6.0674	88	1276.3316
6.1363	89	1290.8354
6.2053	90	1305.3391

6.2742	91	1319.8429
6.3432	92	1334.3467
6.4121	93	1348.8504
6.4811	94	1363.3542
6.5500	95	1377.8580

6.6190	96	1392.3617
6.6879	97	1406.8655
6.7569	98	1421.3693
6.8258	99	1435.8730
6.8948	100	1450.3768

bar	↓	psi
7.5842	110	1595.4145
8.2737	120	1740.4522
8.9632	130	1884.4898
9.6527	140	2030.5275
10.3421	150	2175.5652

11.0316	160	2320.6029
11.7211	170	2465.6406
12.4106	180	2610.6783
13.1000	190	2755.7159
13.7895	200	2900.7536

14.4790	210	3145.7913
15.1685	220	3190.8290
15.8579	230	3335.8667
16.5474	240	3480.9043
17.2369	250	3625.9420

17.9264	260	3770.9797
18.6159	270	3916.0174
19.3053	280	4061.0551
19.9948	290	4206.0927
20.6843	300	4351.1304

21.3738	310	4496.1681
22.0632	320	4641.2058
22.7527	330	4786.2435
23.4422	340	4931.2811
24.1317	350	5076.3188

24.8211	360	5221.3565
25.5106	370	5366.3942
26.2001	380	5511.4319
26.8896	390	5656.4695
27.5790	400	5801.5072

28.2685	410	5946.5449
28.9580	420	6091.5826
29.6475	430	6236.6203
30.3369	440	6381.6580
31.0264	450	6526.6957

31.7159	460	6671.7333
32.4054	470	6816.7710
33.0948	480	6961.8087
33.7843	490	7106.8464
34.4738	500	7251.8840

41.3686	600	8702.2608
48.2633	700	10152.6381
55.1581	800	11603.0139
62.0528	900	13053.3913
68.9476	1000	14503.7680

Example: 7 bar = 101.5264 psi or 7 psi = 0.4826 bar

Conversion Factors

inch Hg vacuum/bar and Pressure/Temperature

Vacuum

bar	Inch Hg below atmosphere	bar	Inch Hg below atmosphere	bar	Inch Hg below atmosphere
0	0	-0.3556	10.5	-0.6942	20.5
-0.0339	1	-0.3725	11	-0.7111	21
-0.0508	1.5	-0.3894	11.5	-0.7281	21.5
-0.0677	2	-0.4064	12	-0.7450	22
-0.0847	2.5	-0.4233	12.5	-0.7619	22.5
-0.1016	3	-0.4402	13	-0.7789	23
-0.1185	3.5	-0.4572	13.5	-0.7958	23.5
-0.1355	4	-0.4741	14	-0.8127	24
-0.1524	4.5	-0.4910	14.5	-0.8297	24.5
-0.1693	5	-0.5080	15	-0.8466	25
-0.1863	5.5	-0.5249	15.5	-0.8635	25.5
-0.2032	6	-0.5418	16	-0.8805	26
-0.2201	6.5	-0.5588	16.5	-0.8974	26.5
-0.2370	7	-0.5757	17	-0.9143	27
-0.2540	7.5	-0.5926	17.5	-0.9313	27.5
-0.2709	8	-0.6096	18	-0.9482	28
-0.2878	8.5	-0.6265	18.5	-0.9651	28.5
-0.3048	9	-0.6434	19	-0.9821	29
-0.3217	9.5	-0.6603	19.5	-0.9990	29.5
-0.3386	10	-0.6773	20	-1.0159	30

Condensed Pressure - Temperature chart in °C, °F, psig and bar (ato)

Temperature		R12		R22		R502		R717	
°C	°F	bar	psig	bar	psig	bar	psig	bar	psig
- 50	- 58	-0.62	18.35*	-0.37	10.90*	-0.19	5.62*	-0.60	17.8*
- 45	- 49	-0.51	15.00*	-0.09	2.72*	0.03	0.44	-0.47	13.8*
- 40	- 40	-0.37	10.97*	0.04	0.53	0.30	4.28	-0.29	8.7*
- 35	- 31	-0.21	6.09*	0.30	4.41	0.61	8.86	-0.08	2.4*
- 30	- 22	-0.01	0.27*	0.62	9.02	0.98	14.24	0.18	2.6
- 25	- 13	0.22	3.24	1.09	15.79	1.41	20.50	0.50	7.3
- 20	- 4	0.50	7.20	1.43	20.81	1.91	27.72	0.89	12.9
- 15	+ 5	0.81	11.79	1.94	28.19	2.48	35.99	1.35	19.6
- 10	+ 14	1.18	17.08	2.53	36.69	3.14	45.47	1.90	27.5
- 5	+ 23	1.60	23.15	3.20	46.42	3.88	56.22	2.54	36.8
0	+ 32	2.07	30.06	3.96	57.47	4.71	68.30	3.28	47.6
+ 5	+ 41	2.61	37.89	4.82	69.98	5.64	81.82	4.14	60.1
+10	+ 50	3.22	46.70	5.79	84.03	6.68	96.89	5.14	74.5
+15	+ 59	3.90	56.57	6.88	99.78	7.84	113.68	6.27	90.9
+20	+ 68	4.66	67.58	8.09	117.28	9.12	132.28	7.56	109.6
+25	+ 77	5.50	79.81	9.43	136.72	10.53	152.76	9.01	130.7
+30	+ 86	6.44	93.34	10.91	158.17	12.07	175.10	10.65	154.5
+35	+ 95	7.46	108.25	12.54	181.81	13.77	199.70	12.49	181.1
+40	+104	8.59	124.63	14.32	207.72	15.63	226.64	14.53	210.7
+45	+113	9.83	142.57	16.28	236.09	17.64	255.88	16.80	243.7
+50	+122	11.18	162.15	18.41	267.15	19.83	287.66	19.31	280.1

* Note: Inch of mercury below one standard atmosphere

