

SPECIFICATION SUMMARY

ZA3010SS-25a

Conversion Tables

The most commonly used conversions are tabulated for low range values. They are rounded off to the nearest practical decimal.

IN/H ₂ O	P.S.I.	IN/Hg	mm/Hg	P.S.I.	IN/Hg	IN/H ₂ O	mm/Hg	P.S.I.	IN/Hg	IN/H ₂ O	mm/Hg
1	.04	.07	2.	.01	.02	.3	5.	1.1	2.25	30.5	57.
2	.07	.15	4.	.02	.04	6	1.	1.2	2.45	33.3	62.
3	.11	.22	5.5	.03	.06	8	1.6	1.3	2.65	36.1	67.
4	.15	.29	7.5	.04	.08	1.1	2.1	1.4	2.86	38.9	72.5
5	.18	.37	9.5	.05	.10	1.4	2.6	1.5	3.06	41.6	77.5
6	.22	.44	11.5	.06	.12	1.7	3.1	1.6	3.27	44.4	83.
7	.25	.51	13.	.07	.14	1.9	3.6	1.7	3.47	47.2	88.
8	.29	.59	15.	.08	.16	2.2	4.1	1.8	3.67	50.0	93.
9	.32	.66	16.5	.09	.18	2.5	4.7	1.9	3.88	52.7	98.5
10	.36	.74	18.5	.10	.20	2.8	5.2	2.0	4.08	55.5	103.5
11	.40	.81	20.5	.11	.22	3.0	5.7	2.1	4.29	58.3	108.5
12	.43	.89	22.5	.12	.24	3.3	6.2	2.2	4.49	61.1	114.
13	.47	.96	24.5	.13	.26	3.6	6.8	2.3	4.69	63.8	119.
14	.50	1.03	26.	.14	.28	3.9	7.3	2.4	4.90	66.6	124.
15	.54	1.10	28.	.15	.31	4.2	7.8	2.5	5.10	69.4	129.5
16	.58	1.17	30.	.16	.33	4.4	8.3	2.6	5.31	72.2	134.5
17	.61	1.25	31.5	.17	.35	4.7	8.8	2.7	5.51	74.9	139.5
18	.65	1.32	33.5	.18	.37	5.0	9.3	2.8	5.71	77.7	145.
19	.68	1.40	35.5	.19	.39	5.3	9.9	2.9	5.92	80.5	150.
20	.72	1.47	37.	.20	.41	5.6	10.4	3.0	6.12	83.3	155.
21	.76	1.54	39.	.21	.43	5.8	10.9	3.1	6.33	86.0	160.5
22	.79	1.62	41.	.22	.45	6.1	11.4	3.2	6.53	88.8	165.5
23	.83	1.69	43.	.23	.47	6.4	12.0	3.3	6.73	91.6	171.
24	.87	1.76	44.5	.24	.49	6.7	12.5	3.4	6.94	94.4	176.
25	.90	1.84	46.5	.25	.51	7.0	13.0	3.5	7.14	97.1	181.
26	.94	1.91	48.5	.26	.53	7.2	13.5	3.6	7.35	99.9	186.5
27	.97	1.98	50.	.27	.55	7.5	14.0	3.7	7.55	102.7	191.5
28	1.01	2.06	52.	.28	.57	7.8	14.5	3.8	7.76	105.5	196.5
29	1.05	2.13	54.	.29	.59	8.0	15.0	3.9	7.96	108.2	202.
30	1.08	2.21	56.	.30	.61	8.3	15.5	4.0	8.16	111.0	207.
31	1.12	2.28	57.5	.31	.63	8.6	16.0	4.1	8.37	113.8	212.
32	1.15	2.35	59.5	.32	.65	8.9	16.5	4.2	8.57	116.6	217.5
33	1.19	2.43	61.5	.33	.67	9.2	17.1	4.3	8.78	119.3	222.5
34	1.23	2.50	63.	.34	.69	9.4	17.5	4.4	8.98	122.1	227.5
35	1.26	2.57	65.	.35	.71	9.7	18.1	4.5	9.18	124.9	233.
36	1.30	2.65	67.	.36	.73	10.0	18.6	4.6	9.39	127.7	238.
37	1.33	2.72	68.5	.37	.76	10.3	19.1	4.7	9.59	130.4	243.
38	1.37	2.79	70.5	.38	.78	10.5	19.6	4.8	9.80	132.2	248.5
39	1.41	2.87	72.5	.39	.80	10.8	20.2	4.9	10.00	136.0	253.5
40	1.44	2.94	74.5	.40	.82	11.1	20.7	5.0	10.21	138.8	259.
41	1.48	3.01	76.5	.41	.84	11.4	21.2	5.1	10.41	141.6	264.
42	1.50	3.09	78.	.42	.86	11.7	21.7	5.2	10.61	144.3	269.
43	1.55	3.16	80.	.43	.88	12.0	22.3	5.3	10.82	147.1	274.5
44	1.59	3.23	82.	.44	.90	12.2	22.8	5.4	11.02	149.9	279.5
45	1.62	3.31	84.	.45	.92	12.5	23.3	5.5	11.23	152.7	284.5
46	1.66	3.38	85.5	.46	.94	12.8	23.8	5.6	11.43	155.4	290.
47	1.69	3.45	87.5	.47	.96	13.0	24.3	5.7	11.63	158.2	295.
48	1.72	3.53	89.5	.48	.98	13.3	24.8	5.8	11.84	161.0	300.
49	1.76	3.60	91.	.49	1.00	13.6	25.4	5.9	12.04	163.8	305.5
50	1.80	3.68	93.	.50	1.02	13.9	25.9	6.0	12.25	166.5	310.5
51	1.84	3.75	95.	.51	1.04	14.2	26.4	6.1	12.45	169.3	315.5
52	1.87	3.82	97.	.52	1.06	14.4	26.9	6.2	12.65	172.1	321.
53	1.91	3.90	98.5	.53	1.08	14.7	27.5	6.3	12.86	174.9	326.
54	1.95	3.97	100.5	.54	1.10	15.0	28.0	6.4	13.06	177.6	331.
55	1.98	4.04	102.5	.55	1.12	15.3	28.5	6.5	13.27	180.4	336.5
56	2.02	4.12	104.	.56	1.14	15.5	29.0	6.6	13.47	183.2	341.5
57	2.05	4.19	106.	.57	1.16	15.8	29.5	6.7	13.67	186.0	347.
58	2.09	4.26	108.	.58	1.18	16.1	30.0	6.8	13.88	188.7	352.
59	2.13	4.34	109.5	.59	1.20	16.4	30.6	6.9	14.08	191.5	357.
60	2.16	4.41	111.5	.60	1.22	16.7	31.1	7.0	14.29	194.3	362.5
61	2.20	4.48	113.5	.61	1.25	17.0	31.6	7.1	14.49	197.1	367.5
62	2.23	4.56	115.5	.62	1.27	17.2	32.1	7.2	14.70	199.8	372.5
63	2.27	4.63	117.5	.63	1.29	17.5	32.6	7.3	14.90	202.6	378.
64	2.31	4.70	119.	.64	1.31	17.8	33.2	7.4	15.10	205.4	383.
65	2.34	4.78	121.	.65	1.33	18.0	33.7	7.5	15.31	208.2	388.
66	2.38	4.85	123.	.66	1.35	18.3	34.2	7.6	15.51	210.9	393.5
67	2.41	4.92	124.5	.67	1.37	18.6	34.7	7.7	15.72	213.7	398.5
68	2.44	5.00	126.5	.68	1.39	18.9	35.2	7.8	15.92	216.5	403.5
69	2.48	5.07	128.5	.69	1.41	19.2	35.8	7.9	16.12	219.3	409.
70	2.52	5.15	130.5	.70	1.43	19.4	36.2	8.0	16.33	222.0	414.
71	2.55	5.22	132.	.71	1.45	19.7	36.7	8.1	16.53	224.8	419.
72	2.59	5.29	134.	.72	1.47	20.0	37.2	8.2	16.74	227.6	424.5
73	2.63	5.37	136.	.73	1.49	20.3	37.8	8.3	16.94	230.4	429.5
74	2.66	5.44	137.5	.74	1.51	20.5	38.3	8.4	17.14	233.1	435.
75	2.70	5.51	139.5	.75	1.53	20.8	38.8	8.5	17.35	235.9	440.
76	2.73	5.59	141.5	.76	1.55	21.1	39.3	8.6	17.55	238.7	445.
77	2.77	5.66	143.	.77	1.57	21.4	39.8	8.7	17.76	241.5	450.5
78	2.80	5.73	145.	.78	1.59	21.6	40.3	8.8	17.96	244.2	455.5
79	2.84	5.81	147.	.79	1.61	21.9	40.9	8.9	18.16	247.0	460.5
80	2.88	5.88	149.	.80	1.63	22.2	41.4	9.0	18.37	249.8	466.
81	2.91	5.95	151.	.81	1.65	22.5	41.9	9.1	18.57	252.6	471.
82	2.95	6.03	152.5	.82	1.67	22.8	42.4	9.2	18.78	255.3	476.
83	2.98	6.10	154.5	.83	1.69	23.0	43.0	9.3	18.98	258.1	481.5
84	3.02	6.17	156.5	.84	1.71	23.3	43.5	9.4	19.19	260.9	486.5
85	3.06	6.25	158.5	.85	1.73	23.6	44.0	9.5	19.39	263.7	491.5
86	3.09	6.32	160.	.86	1.76	23.9	44.5	9.6	19.59	266.4	497.
87	3.13	6.39	162.	.87	1.78	24.1	45.0	9.7	19.80	269.2	502.
88	3.16	6.47	164.	.88	1.80	24.4	45.5	9.8	20.00	272.0	507.
89	3.20	6.55	165.5	.89	1.82	24.7	46.1	9.9	20.21	274.8	512.5
90	3.24	6.62	167.5	.90	1.84	25.0	46.6	10.0	20.41	277.6	517.5
91	3.27	6.69	169.5	.91	1.86	25.3	47.1	14.7	30.	408.	760.
92	3.31	6.77	171.5	.92	1.88	25.5	47.6				
93	3.34	6.84	173.	.93	1.90	25.8	48.2				
94	3.38	6.92	175.	.94	1.92	26.1	48.7				
95	3.42	6.99	177.	.95	1.94	26.4	49.2				
96	3.45	7.06	179.	.96	1.96	26.6	49.7				
97	3.49	7.13	180.5	.97	1.98	26.9	50.2				
98	3.52	7.21	182.5	.98	2.00	27.2	50.7				
99	3.56	7.28	184.5	.99	2.02	27.5	51.3				
100	3.60	7.35	186.5	1.00	2.04	27.8	51.8				

Conversion Tables

SPECIFICATION SUMMARY

ZA3010SS-25a

Altitude (Feet)	Pressure			Temperature	
	In.Hg.	Mm.Hg.	P.S.I.	°C	°F
-1,000	31.02	787.9	15.25	17.0	62.6
-500	30.47	773.8	14.94	16.0	60.8
0	29.921	760.0	14.70	15.0	59.0
500	29.38	746.4	14.43	14.0	57.2
1,000	28.86	732.9	14.18	13.0	55.4
1,500	28.33	719.7	13.90	12.0	53.6
2,000	27.82	706.6	13.67	11.0	51.8
2,500	27.31	693.8	13.41	10.0	50.0
3,000	26.81	681.1	13.19	9.1	48.4
3,500	26.32	668.6	12.92	8.1	46.6
4,000	25.84	656.3	12.70	7.1	44.8
4,500	25.36	644.2	12.45	6.1	43.0
5,000	24.89	632.3	12.23	5.1	41.2
5,500	24.43	620.6	12.00	4.1	39.4
6,000	23.98	606.0	11.77	3.1	37.6
6,500	23.53	597.6	11.56	2.1	35.8
7,000	23.09	586.4	11.34	1.1	34.0
7,500	22.65	575.3	11.12	0.1	32.2
8,000	22.22	564.4	10.90	-0.8	30.67
8,500	21.80	553.7	10.70	-1.8	28.8
9,000	21.38	543.2	10.50	-2.8	27.0
9,500	20.98	532.8	10.30	-3.8	25.2
10,000	20.58	522.6	10.10	-4.8	23.4
10,500	20.18	512.5	9.91	-5.8	21.6
11,000	19.79	502.6	9.73	-6.8	19.8
11,500	19.40	492.8	9.53	-7.8	18.0
12,000	19.03	483.3	9.35	-8.8	16.2
12,500	18.65	473.8	9.15	-9.8	14.4
13,000	18.29	464.5	8.97	-10.8	12.6
13,500	17.93	455.4	8.81	-11.7	10.9
14,000	17.57	446.4	8.63	-12.7	9.1
14,500	17.22	437.5	8.46	-13.7	7.3
15,000	16.88	428.8	8.28	-14.7	5.5
15,500	16.54	420.2	8.13	-15.7	3.7
16,000	16.21	411.8	7.96	-16.7	1.9
16,500	15.89	403.5	7.81	-17.7	0.1
17,000	15.56	395.3	7.64	-18.7	-1.7
17,500	15.25	387.3	7.49	-19.7	-3.5
18,000	14.94	379.4	7.34	-20.7	-5.3
18,500	14.63	371.7	7.19	-21.7	-7.1
19,000	14.33	364.0	7.04	-22.6	-8.7
19,500	14.04	356.5	6.90	-23.6	-10.5
20,000	13.75	349.1	6.75	-24.6	-12.3
20,500	13.46	341.9	6.61	-25.6	-14.1
21,000	13.18	334.7	6.48	-26.6	-15.9
21,500	12.90	327.7	6.34	-27.6	-17.7
22,000	12.63	320.8	6.21	-28.6	-19.5
22,500	12.36	314.1	6.08	-29.6	-21.3
23,000	12.10	307.4	5.94	-30.6	-23.1
23,500	11.84	300.9	5.82	-31.6	-24.9
24,000	11.59	294.4	5.70	-32.5	-26.5
24,500	11.34	288.1	5.58	-33.5	-28.3
25,000	11.10	281.9	5.45	-34.5	-30.1
25,500	10.86	275.8	5.33	-35.5	-31.9
26,000	10.62	269.8	5.22	-36.5	-33.7
26,500	10.39	263.9	5.11	-37.5	-35.5
27,000	10.16	258.1	4.99	-38.5	-37.3
27,500	9.94	252.5	4.88	-39.5	-39.1
28,000	9.72	246.9	4.78	-40.5	-40.9
28,500	9.50	241.4	4.67	-41.5	-42.7
29,000	9.29	236.0	4.56	-42.5	-44.5
29,500	9.08	230.7	4.46	-43.4	-46.1
30,000	8.88	225.6	4.36	-44.4	-47.9
30,500	8.68	220.5	4.27	-45.4	-49.7
31,000	8.48	215.5	4.17	-46.4	-51.5
31,500	8.29	210.6	4.07	-47.4	-53.3
32,000	8.10	205.8	3.98	-48.4	-55.1

Altitude (Feet)	Pressure			Temperature	
	In.Hg.	Mm.Hg.	P.S.I.	°C	°F
32,500	7.91	201.0	3.89	-49.4	-56.9
33,000	7.73	196.4	3.80	-50.4	-58.7
33,500	7.55	191.8	3.71	-51.4	-60.5
34,000	7.38	187.4	3.63	-52.4	-62.3
34,500	7.20	183.0	3.54	-53.4	-64.1
35,000	7.04	178.7	3.46	-54.3	-65.8
35,332	6.93	175.9	3.40	-55.0	-66.0
35,500	6.87	174.5	3.375	-55.0	-66.0
36,000	6.71	170.4	3.296	-55.0	-66.0
36,500	6.55	166.4	3.22	-55.0	-66.0
37,000	6.39	162.4	3.14	-55.0	-66.0
37,500	6.24	158.6	3.067	-55.0	-66.0
38,000	6.10	154.9	2.994	-55.0	-66.0
38,500	5.95	151.2	2.925	-55.0	-66.0
39,000	5.81	147.6	2.852	-55.0	-66.0
39,500	5.68	144.1	2.798	-55.0	-66.0
40,000	5.54	140.7	2.72	-55.0	-66.0
40,500	5.41	137.4	2.66	-55.0	-66.0
41,000	5.28	143.2	2.595	-55.0	-66.0
41,500	5.16	131.0	2.535	-55.0	-66.0
42,000	5.04	127.9	2.47	-55.0	-66.0
42,500	4.92	124.9	2.415	-55.0	-66.0
43,000	4.80	122.0	2.36	-55.0	-66.0
43,500	4.69	119.1	2.304	-55.0	-66.0
44,000	4.58	116.3	2.25	-55.0	-66.0
44,500	4.47	113.5	2.195	-55.0	-66.0
45,000	4.36	110.8	2.14	-55.0	-66.0
45,500	4.26	108.2	2.094	-55.0	-66.0
46,000	4.16	105.7	2.042	-55.0	-66.0
46,500	4.06	103.2	1.997	-55.0	-66.0
47,000	3.97	100.7	1.948	-55.0	-66.0
47,500	3.873	98.38	1.90	-55.0	-66.0
48,000	3.781	96.05	1.858	-55.0	-66.0
48,500	3.693	93.79	1.813	-55.0	-66.0
49,000	3.605	91.57	1.772	-55.0	-66.0
49,500	3.52	89.41	1.729	-55.0	-66.0
50,000	3.436	87.30	1.689	-55.0	-66.0
51,000	3.276	83.22	1.610	-55.0	-66.0
52,000	3.124	79.34	1.533	-55.0	-66.0
53,000	2.978	75.64	1.463	-55.0	-66.0
54,000	2.839	72.12	1.395	-55.0	-66.0
55,000	2.707	68.76	1.33	-55.0	-66.0
56,000	2.581	65.55	1.269	-55.0	-66.0
57,000	2.460	62.49	1.208	-55.0	-66.0
58,000	2.346	59.58	1.152	-55.0	-66.0
59,000	2.236	56.80	1.098	-55.0	-66.0
60,000	2.132	54.15	1.048	-55.0	-66.0
61,000	2.033	51.63	1.000	-55.0	-66.0
62,000	1.938	49.22	0.952	-55.0	-66.0
63,000	1.847	46.92	0.906	-55.0	-66.0
64,000	1.761	44.73	0.865	-55.0	-66.0
65,000	1.679	42.65	0.825	-55.0	-66.0
66,000	1.601	40.66	0.786	-55.0	-66.0
67,000	1.526	38.76	0.748	-55.0	-66.0
68,000	1.455	36.95	0.714	-55.0	-66.0
69,000	1.387	35.23	0.681	-55.0	-66.0
70,000	1.322	33.59	0.649	-55.0	-66.0
71,000	1.261	32.02	0.619	-55.0	-66.0
72,000	1.202	30.53	0.590	-55.0	-66.0
73,000	1.146	29.10	0.562	-55.0	-66.0
74,000	1.093	27.75	0.536	-55.0	-66.0
75,000	1.041	26.45	0.512	-55.0	-66.0
76,000	0.993	25.22	0.488	-55.0	-66.0
77,000	0.946	24.04	0.465	-55.0	-66.0
78,000	0.902	22.92	0.443	-55.0	-66.0
79,000	0.860	21.85	0.423	-55.0	-66.0
80,000	0.820	20.83	0.403	-55.0	-66.0

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