

# 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 <sub>2</sub> O	P.S.I.	IN/Hg	mm/Hg	P.S.I.	IN/Hg	IN/H <sub>2</sub> O	mm/Hg	P.S.I.	IN/Hg	IN/H <sub>2</sub> 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

## Bristol Babcock

**U.S.A.**  
**Bristol Babcock Inc.**  
 1100 Buckingham St.  
 Watertown, CT 06795  
 Telephone: (860) 945-2200  
 Fax: (860) 945-2213

**U.K.**  
**Bristol Babcock Ltd.**  
 Vale Industrial Estate  
 Stourport Road, Kidderminster,  
 Worcestershire, DY11 7QP, England U  
 Telephone: 44-(0)-1562-820001  
 Fax: 44-(0)-1562-746721

**Canada**  
**Bristol Babcock Canada**  
 234 Attwell Drive  
 Toronto, Ontario M9W 5B3  
 Telephone: (416) 675-3820  
 Fax: (416) 674-5129

**France**  
**Bristol Mecis s.a.**  
 Z.I. La Limoise  
 B.P. 70  
 36103 Issoudun, France  
 Telephone: 33-54-21-40-74  
 Fax: 33-54-21-08-90