

CAN-BEST Window & IG Testing Laboratories

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Wind Speed to Static Pressure Differential

Static Pressure Differential				Wind Speed	
psf	DP	in. H ₂ O	Pa	mph	kph
1.0	1	0.2	48	20	32
1.6	1	0.3	75	25	40
2.9	2	0.6	137	33	54
3.0	2	0.6	144	34	55
3.8	3	0.7	180	38	62
4.5	3	0.9	215	42	67
5.3	4	1.0	251	45	73
6.0	4	1.2	287	48	78
6.8	5	1.3	323	51	83
7.5	5	1.4	359	54	87
8.3	6	1.6	395	57	91
9.0	6	1.7	431	59	95
9.8	7	1.9	467	62	99
10.5	7	2.0	503	64	103
11.3	8	2.2	539	66	107
12.0	8	2.3	575	68	110
15.0	10	2.9	718	77	123
17.5	12	3.4	838	83	133
20.0	13	3.8	958	88	142
22.5	15	4.3	1077	94	151
25.0	17	4.8	1197	99	159
27.5	18	5.3	1317	104	167
30.0	20	5.8	1436	108	174
32.5	22	6.3	1556	113	181
35.0	23	6.7	1676	117	188
37.5	25	7.2	1796	121	195
40.0	27	7.7	1915	125	201
42.5	28	8.2	2035	129	207
45.0	30	8.7	2155	133	213
47.5	32	9.1	2274	136	219
50.0	33	9.6	2394	140	225
52.5	35	10.1	2514	143	230
55.0	37	10.6	2634	147	236
57.5	38	11.1	2753	150	241
60.0	40	11.5	2873	153	246
62.5	42	12.0	2993	156	251
65.0	43	12.5	3112	159	256
67.5	45	13.0	3232	162	261
70.0	47	13.5	3352	165	266

Static Pressure Differential				Wind Speed	
psf	DP	in. H ₂ O	Pa	mph	kph
72.5	48	13.9	3471	168	271
75.0	50	14.4	3591	171	275
77.5	52	14.9	3711	174	280
80.0	53	15.4	3831	177	284
82.5	55	15.9	3950	180	289
85.0	57	16.3	4070	182	293
87.5	58	16.8	4190	185	298
90.0	60	17.3	4309	188	302
92.5	62	17.8	4429	190	306
95.0	63	18.3	4549	193	310
97.5	65	18.8	4668	195	314
100.0	67	19.2	4788	198	318
102.5	68	19.7	4908	200	322
105.0	70	20.2	5028	203	326
107.5	72	20.7	5147	205	330
110.0	73	21.2	5267	207	334
112.5	75	21.6	5387	210	337
115.0	77	22.1	5506	212	341
117.5	78	22.6	5626	214	345
120.0	80	23.1	5746	217	348
122.5	82	23.6	5866	219	352
125.0	83	24.0	5985	221	356
127.5	85	24.5	6105	223	359
130.0	87	25.0	6225	225	363
132.5	88	25.5	6344	228	366
135.0	90	26.0	6464	230	370
137.5	92	26.4	6584	232	373
140.0	93	26.9	6703	234	376
142.5	95	27.4	6823	236	380
145.0	97	27.9	6943	238	383
147.5	98	28.4	7063	240	386
150.0	100	28.8	7182	242	390
152.5	102	29.3	7302	244	393
155.0	103	29.8	7422	246	396
157.5	105	30.3	7541	248	399
160.0	107	30.8	7661	250	402

$$P \text{ (psf)} = 0.00256V^2 \text{ (mph)}$$

$$P \text{ (Pa)} = 0.3173V^2 \text{ (kph)}$$