

FORMULA FILE

Calculating pressure and vacuum

Pounds per square inch (PSI) and feet of head are two ways of measuring the same thing. Just as we have two temperature scales, fahrenheit and centigrade, we have two ways of measuring pressure. Vacuum is measured in inches of

mercury. Sometimes compound problems require that we calculate factors from both the vacuum and the pressure side. These tables give you the conversion factors necessary to make these calculations.

POUNDS p.s.i. TO FEET OF HEAD		FEET OF HEAD TO POUNDS p.s.i.		INCHES OF MERCURY TO FEET OF HEAD TO POUNDS p.s.i.		
POUND PER SQ IN	FEET OF HEAD	FEET OF HEAD	POUNDS PER SQ IN	INCHES OF MERCURY	FEET OF HEAD	POUNDS PER SQ IN
1	2.30	1	0.43	1	1.13	0.49
2	4.61	2	0.87	2	2.27	0.98
3	6.91	3	1.30	3	3.40	1.47
4	9.22	4	1.73	4	4.54	1.96
5	11.52	5	2.17	5	5.67	2.46
6	13.82	6	2.60	6	6.80	2.95
7	16.13	7	3.03	7	7.94	3.44
8	18.43	8	3.46	8	9.07	3.93
9	20.74	9	3.90	9	10.21	4.42
10	23.04	10	4.33	10	11.34	4.91
15	34.56	15	6.50	12	13.61	5.89
20	46.08	20	8.66	14	15.88	6.88
25	57.60	25	10.83	16	18.14	7.86
30	69.12	30	12.99	18	20.41	8.84
40	92.16	40	17.32	20	22.68	9.82
50	115.20	50	21.66	22	24.95	10.81
60	138.23	60	25.99	24	27.22	11.79
70	161.27	70	30.32	26	29.48	12.77
80	184.31	80	34.65	28	31.76	13.75
90	207.35	90	38.98	29.921	33.930	14.697
100	230.39	100	43.31			

NOTE: Values may be added. To determine 21, for example, add values for 20 and 1.

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