

# CONVERSION FACTORS



## Length

To Convert		inch		To	millimeter		Multiply By		25.40		
		millimeter			inch				0.03937		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
0.025	0.635	0.200	5.080	0.375	9.525	0.550	13.970	0.725	18.415	0.900	22.860
0.050	1.270	0.225	5.715	0.400	10.160	0.575	14.605	0.750	19.050	0.925	23.495
0.075	1.905	0.250	6.350	0.425	10.795	0.600	15.240	0.775	19.685	0.950	24.130
0.100	2.540	0.275	6.985	0.450	11.430	0.625	15.875	0.800	20.320	0.975	24.765
0.125	3.175	0.300	7.620	0.475	12.065	0.650	16.510	0.825	20.955	1.000	25.400
0.150	3.810	0.325	8.255	0.500	12.700	0.675	17.145	0.850	21.590		
0.175	4.445	0.350	8.890	0.525	13.335	0.700	17.780	0.875	22.225		

## Flow

To Convert		cfm (cubic ft./min.)		To	L / min (liters/min.)		Multiply By		28.317		
		L / min (liters/min.)			cfm (cubic ft./min.)				0.03531		
cfm	L / min	cfm	L / min	cfm	L / min	cfm	L / min	cfm	L / min	cfm	L / min
0.5	14.159	4.0	113.268	7.5	212.380	11.0	311.493	14.5	410.606	21.0	594.66
1.0	28.317	4.5	127.427	8.0	226.539	11.5	325.652	15.0	438.924	22.0	622.97
1.5	42.476	5.0	141.585	8.5	240.698	12.0	339.811	16.0	453.07	23.0	651.29
2.0	56.634	5.5	155.744	9.0	254.857	12.5	353.970	17.0	481.39	24.0	679.61
2.5	70.793	6.0	169.903	9.5	269.016	13.0	368.129	18.0	509.71	25.0	707.93
3.0	84.951	6.5	184.062	10.0	283.175	13.5	382.288	19.0	538.02		
3.5	99.110	7.0	198.221	10.5	297.334	14.0	396.447	20.0	566.34		

## Pressure

To Convert		psig (lbs./sq.inch)		To	bars		Multiply By		0.06895		
		bars			psig (lbs./sq.inch)				14.50		
psig	bars	psig	bars	psig	bars	psig	bars	psig	bars	psig	bars
2.5	0.17	20.0	1.38	37.5	2.59	55.0	3.79	72.5	5.00	90.0	6.21
5.0	0.34	22.5	1.55	40.0	2.76	57.5	3.96	75.0	5.17	92.5	6.38
7.5	0.52	25.0	1.72	42.5	2.93	60.0	4.14	77.5	5.34	95.0	6.55
10.0	0.69	27.5	1.90	45.0	3.10	62.5	4.31	80.0	5.52	97.5	6.72
12.5	0.86	30.0	2.07	47.5	3.28	65.0	4.48	82.5	5.69	100.0	6.90
15.0	1.03	32.5	2.24	50.0	3.45	67.5	4.65	85.0	5.86		
17.5	1.21	35.0	2.41	52.5	3.62	70.0	4.83	87.5	6.03		

## Force

To Convert		pounds (lbs.)		To	newtons (N)		Multiply By		4.448		
		newtons (N)			pounds (lbs.)				0.2248		
lbs.	N	lbs.	N	lbs.	N	lbs.	N	lbs.	N	lbs.	N
0.25	1.1	2.00	8.9	3.75	16.7	5.50	24.5	7.25	32.2	9.00	40.0
0.50	2.2	2.25	10.0	4.00	17.8	5.75	25.6	7.50	33.4	9.25	41.1
0.75	3.3	2.50	11.1	4.25	18.9	6.00	26.7	7.75	34.5	9.50	42.3
1.00	4.4	2.75	12.2	4.50	20.0	6.25	27.8	8.00	35.6	9.75	43.4
1.25	5.6	3.00	13.3	4.75	21.1	6.50	28.9	8.25	36.7	10.00	44.5
1.50	6.7	3.25	14.5	5.00	22.2	6.75	30.0	8.50	37.8		
1.75	7.8	3.50	15.6	5.25	23.4	7.00	31.1	8.75	38.9		

## Temperature

To Convert		Fahrenheit (°F)		To	Celsius (°C)		Multiply By		(°F - 32) / 1.8		
		Celsius (°C)			Fahrenheit (°F)				1.8°C + 32		
°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
5	-15.0	40	+4.4	75	23.9	110	43.3	145	62.8	180	82.2
10	-12.2	45	+7.2	80	26.7	115	46.1	150	65.6	185	85.0
15	-9.4	50	+10.0	85	18.9	120	48.9	155	68.3	190	87.8
20	-6.7	55	+12.8	90	32.2	125	51.7	160	71.1	195	90.6
25	-3.9	60	15.6	95	35.0	130	54.4	165	73.9	200	93.3
30	-1.1	65	18.3	100	37.8	135	57.2	170	76.7		
35	+1.7	70	21.1	105	+40.6	140	60.0	175	79.4		