



TECH TIP #57

CONVERSION FACTORS



Conversion Tables

Engineering Information

PRESSURE							
	In Water	Ft. Water	PSI	In Hg.	MM Hg	Atm	Kg/Sq. Cm
In Water =	1.0	0.083	0.0361	0.0736	1.87	0.353	0.0025
Ft. Water =	12.0	1.0	0.433	0.883	22.43	0.0295	0.0304
PSI =	27.72	2.31	1.0	2.040	51.816	0.068	0.0703
In Hg =	13.596	1.133	0.491	1.0	25.40	0.0334	0.0345
MM Hg =	0.535	0.0446	0.0193	0.0394	1.0	0.00132	0.0014
Atm =	2.829	33.947	14.7	29.921	760.0	1.0	1.0033
Kg/Sq. Cm =	393.6	32.80	14.22	28.97	736.03	0.968	1.0

VOLUME							
	U.S. Gal.	Imp. Gal.	Cu. Ft.	Lb. Water @ 60°F	Cu. M	Quart	Liter
U.S. Gal. =	1.0	0.833	0.134	8.33	0.00379	4.0	3.785
Imp. Gal. =	1.2	1.0	0.161	10.0	0.00455	4.8	4.546
Cu. Ft. =	7.481	6.232	1.0	62.37	0.0283	29.92	28.32
Lb. Water @ 60°F =	0.12	0.10	0.016	1.0	0.00045	0.48	0.454
Cu. M =	264.2	220.0	35.31	2,202.9	1.0	1,057.0	1,000.0
Quart =	0.25	0.208	0.0334	2.086	0.00095	1.0	0.946
Liter =	0.264	0.22	0.0353	2.204	0.001	1.057.0	1.0

POWER						
	HP	Metric HP	kW	HP Hr.	kW Hr	BTU
HP =	1.0	1.014	0.746	---	---	---
Metric HP =	0.986	1.0	0.736	---	---	---
Kw =	1.341	1.36	1.0	---	---	---
HP Hr. =	---	---	---	1.0	0.746	2,545.0
Kw Hr. =	---	---	---	1.341	1.0	3,413.0
BTU =	---	---	---	0.000393	0.000293	1.0

LENGTH							
	mm	cm	m	in	ft	yd	mi
mm =	1.0	0.1	0.001	0.0394	0.00328	---	---
cm =	10.0	1.0	0.01	0.394	0.0328	---	---
m =	1,000.0	100.0	1.0	39.37	3.281	1.094	---
km =	---	---	1,000.0	---	---	---	0.621

AREA					
	Sq. cm	Sq. m	Sq. in.	Sq. ft.	Sq. yd.
Sq. cm =	1.0	---	0.155	---	---
Sq. m =	10,000.0	1.0	1,550.0	10.76	1.196

ABBREVIATIONS

- | | |
|----------------------------|------------------------------|
| Atm. = Atmosphere | Kg = Kilogram |
| BTU = British Thermal Unit | KM = Kilometer |
| cm = Centimeter | Kw = Kilowatt |
| Cu. = Cubic | Lb. = Pound |
| Ft. = Foot | m = Meter |
| Gal. = Gallon | Mi. = Mile |
| Hg. = Mercury | ml = Milliliter |
| HP = Horsepower | mm = Millimeter |
| Hr. = Hour | PSI = Pounds per Square inch |
| Imp. = Imperial | Sq. = Square |
| in. = inch | yd. = Yard |