



Conversion Factors		
Multiply	By	To Obtain
Atmosphere	29.92	Inches of mercury
Atmosphere	33.9	Feet of water
Atmosphere	14.7	Pounds per square in.
Barrels (oil)	42	Gallons
Boiler horsepower	33.475	Btu per hour
Btu	0.252	Calones
Centimeters	0.3937	Inches
Cubic feet	1728	Cubic inches
Cubic feet of water	7.48	Gallons of water
Cubic feet of water	62.37	pounds of water
Cubic feet per minute	0.1247	Gallons per second
Cubic meters	35.314	Cubic feet
Cubic meters	264.2	U.S. gallons
Feet	0.3048	Meters
Feet of water	0.881	Inches of mercury
Feet of water	62.37	pounds per square ft.
Feet of water	0.4335	Pounds per square in.
Feet of water	0.0295	Atmospheres
Feet per minute	0.0114	Miles per hour
Feet per minute	0.0167	Feet per second
Gallons (U.S.)	1.1337	Cubic feet
Gallons (U.S.)	231	Cubic inches
Gallons (U.S.)	8.3453	Pounds of water
Gallons (Imperial)	277.3	Cubic inches
Gallons (Imperial)	10	Pounds of water
Grams	0.0353	Ounces
Horsepower	33000	Foot-pounds per min.
Horsepower	0.7457	Kilowatts
Horsepower (boiler)	33472	Btu per hour
Inches	2.54	Centimeters
Inches	25.4	Millimeters
Inches of mercury	1.131	Feet of water
Inches of mercury	0.4912	Pounds per square in.
Inches of water	0.0361	Pounds per square in.
Inches of water	5.202	Pounds per square ft.
Kilograms	2.2046	Pounds
Kilometers	0.6214	Miles
Kilowatts	1.341	Horsepower
Kilowatt-hours	3415	Btu
Liters	0.2642	U.S. gallons
Meters	39.37	Inches
Meters	3.2808	Feet
Miles	1.609	Kilometers
Millimeters	0.0394	Inches
Ounces	28.35	Grams
Pounds	0.4536	Kilograms
Pounds	7000	Grains
Pounds of water	0.016	Cubic feet
Pounds of water	27.68	Cubic inches
Pounds of water	0.1198	Gallons
Pounds per square in.	2.309	Feet of water
Pounds per square in.	2.0416	Inches of mercury
Tons of refrigeration	12.000	Btu per hour
Tons (long)	2240	Pounds
Tons, metric	2204.6	Pounds
Tons (short)	2000	Pounds
Watts	0.5692	Btu per minute
Watt-hours	3.415	Btu

FLOW

Lbs of Water/Hr x .002	= Gal Min
Gal/Min x 500	= Lbs of Water/Hr
<u>Lbs of Fluid/Hr</u> x .002	= Gal Min
Specific Gravity	
Liters/Min x .264	= Gal/Min (US)
GPM x 3.785	= Liters/Min
Cu Meter/Hr x 4.4	= Gal/Min (US)
Gal/Min x .227	= Cu Meters/Hr
Kg of Water/Min x .264	= Gal/Min (US)
Gal/Min x 3.8	= Kg of Water/Min

PRESSURE

Ft of Water x .433	= PSI
PSI x 2.31	= Ft of Water
Inches Hg x .491	= PSI
Inches Hg x 1.133	= Ft of Water
ATM x 14.7	= PSI
ATM x 33.9	= Ft of Water
Kg/Sq cm x 14.22	= PSI
Meters of Water x 1.42	= PSI
ATM x 760	= mm Hg
mm Hg x .039	= Inches Hg
Bar x 14.5	= PSI
Newton/Meter ² x 1	= Pascal
PSI x 6.9	= kPa (Kilopascal)
kPa x .145	= PSI

VOLUME

Lbs Water x 119	= Gal
Gal (Brit) x 1.2	= Gal (US)
Gal x 128	= Fluid Ounces
Cubic Ft x 7.48	= Gal
Cubic In x .00433	= Gal
Gal x 3.785	= Liters
Liter x .264	= Gal
Cubic Meters x 264.2	= Gallons
Cubic Meter x 1000	= Liter
Liters x 1000	= Cubic Centimeters
Cubic Centimeters x .0338	= Fluid Ounces
Fluid Ounces x 29.57	= Cubic Centimeters

LENGTH

Mils x .001	= Inches
Meters x 3.281	= Feet
Centimeters x .394	= Inches
Millimeters x .0394	= Inches
Microns x .0000394	= Inches

METRIC PREFIXES

Mega = 10 ⁶
Kilo = 10 ³
Hecto = 10 ²
Deca = 10 ¹
Deci = 10 ⁻¹
Centi = 10 ⁻²
Milli = 10 ⁻³
Micro = 10 ⁻⁶

MASS

Gal of Water x 8.336	= Lbs
Cubic Ft of Water x 62.4	= Lbs
Ounces x .0625	= Lbs
Kilograms x 2.2	= Lbs
Lbs x .454	= Kilo
Metric ton x 2205	= Lbs