

# Appendix K

## Conversion Factors

To Convert from	To	Multiply by
<b>Pressure</b>		
Atmospheres	feet of water	33.9
Atmospheres	mm. of mercury	760.0
Atmospheres	pounds/square inch	14.696
Inches of mercury (32°F)	pounds/square inch	0.4335
Inches of mercury (32°F)	pounds/square inch	0.03614
Inches of water (40°F)	pounds/square inch	0.1934
mm. of mercury (32°F)	feet of water (40°F)	2.3066
Pounds/square inch	feet of water (40°F)	0.1934
Pounds/square inch	inches of mercury (32°F)	2.3066
<b>Volume</b>		
Barrels (oil)	gallons	42.0
Barrels (brewery)	gallons	31.0
Cubic cm	cubic inches	0.061023
Cubic feet	cubic inches	1728.0
Cubic feet	cubic meters	0.02832
Cubic feet	gallons	7.481
Cubic meters	gallons	264.17
Gallons	cubic feet	0.1337
Gallons	cubic inches	231.0
Gallons	gallons (British)	0.83268
Gallons	liters	3.7853
Liters	gallons	0.2642
Liters	quarts	1.0567
<b>Heat</b>		
Boiler horsepower (BHP)	BTU/h	33479.0
BTU/h	calories (gram)	252.0
BTU/h	calories (kg.)	0.252
Calories (gram) gram/°C	BTU/lb/°F	1.0
Calories (gram) per gram	BTU/lb	1.8
Horsepower	BTU/h	2545.0
K.W. hours	BTU	3413.0

To Convert from	To	Multiply by
<b>Temperature</b>		
Centigrade degrees	Fahrenheit degrees	1.8 and add 32°
Fahrenheit degrees	Centigrade degrees	Subtract 32° and multiply by 0.5555
<b>Measurement</b>		
Centimeters	inches	0.3937
Feet	meters	0.3048
Inches	centimeters	2.54
Kilometers	miles	0.6214
Meters	feet	3.2808
Microns	millimeters	0.001
Square meters	square feet	10.764
<b>Weight</b>		
Cubic feet of water (60°F)	pounds	62.37
Gallons	pounds of water (60°F)	8.34
Grains	pounds	1/7000
Grains/gallon	parts per million	17.12
Grams	grains	15.43
Kilograms	pounds	2.2046
Pounds	grams	453.59
Pounds	kilograms	0.4536
Ton (long)	tons (short)	1.12
<b>Volumetric Rate</b>		
Cubic feet/second	gallons/minute	448.83
Gallons/minute	cubic feet/second	0.00223
<b>Power</b>		
Horsepower	feet pounds/second	555.0
Horsepower	K.W.	0.745
<b>Viscosity</b>		
Centipoises	pounds/second/feet	0.000672
Poises	centipoises	0.01
<b>Velocity</b>		
Feet/second	meters/second	0.3048
Meters/second	feet/second	3.2808

