

CONVERSION TABLES

LENGTH		
1 in.	=	25.4 mm
1 mm	=	.03937 in.
1 ft.	=	30.48 cm.
1 meter	=	3.28083 ft.
1 micron	=	.001 mm.
AREA		
1 sq. in.	=	6.4516 sq. cm.
1 sq. ft.	=	929.03 sq. cm.
1 sq. cm.	=	0.155 sq. in.
1 sq. cm.	=	0.0010764 sq. ft.
VOLUME		
1 cu. in.	=	16.387 cu. cm.
1 cu. ft.	=	1728 cu. in.
1 cu. lt.	=	7.4805 U.S. gal.
1 cu. lt.	=	6.229 British gal.
1 cu. lt.	=	28.317 liters
1 U.S. gal.	=	0.1337 cu. lt.
1 U.S. gal.	=	231 cu. in.
1 U.S. gal.	=	3.785 liters
1 British gal.	=	1.20094 U.S. gal.
1 British gal.	=	277.3 cu. in.
1 British gal.	=	4.546 liters
1 liter	=	61.023 cu. in.
1 liter	=	0.03531 cu. ft.
1 liter	=	0.2642 U.S. gal.
WEIGHT		
1 ounce av.	=	28.35 g.
1 lb. av.	=	453.59 g.
1 gram	=	0.03527 oz. av.
1 kg.	=	2.205 lb. av.
1 cu. ft. of water	=	62.425 lb.
1 U.S. gal. of water	=	8,33 lb.
1 cu. in. of water	=	0.0361 lb.
1 British gal. of water	=	10.04 lb.
1 cu. ft. of air at		
32°F & 1 atm	=	0.080728 lb.
VELOCITY		
1 ft. per sec.	=	30.48 cm. per sec.
1 cm. per sec.	=	.032808 ft. per sec.
EL OW		·
FLOW		
1 cu. ft. per sec.	=	448.83 gal. per min.
1 cu. ft. per sec.	=	1699.3 liters per min.
1 U.S. gal. per min.	=	0.002228 cu. ft. per sec.
1 U.S. gal. per min.	=	0.06308 liters per sec.
1 cu. cm. per sec.	=	0.0021186 cu. ft. per min.
DENSITY		
1 lb. per cu. ft.	=	16.018 kg. per cu. meter
1 lb. per cu. ft.	=	.0005787 lb. per cu. in.
1 kg. per cu. meter	=	0.06243 lb. per cu. ft.
1 g. per cu. cm.	=	0.03613 lb. per cu. in.
VISCOSITY		
1 Centipoise	=	.000672 lb. per ft. sec.
1 Centistoke	=	.00001076 sq. ft. per sec.

00001076 sq. ft. per sec.

1 Centistoke

PRESSURE 1 in. of water 1 in. of water 1 ft. of water		= = =	0.03613 lb. per sq. in. 0.07355 in. of Hg. 0.4335 lb. per sq. in.
1 ft. of water 1 in. of mercury 1 in. of mercury 1 in. of mercury 1 atmosphere 1 atmosphere 1 atmosphere 1 lb. per sq. in. 1 lb. per sq. in. 1 lb. per sq. in. 1 kg. per sq. cm. 1 dyne per sq. cm. 1 micron PSI to BarPSI x 0.0689			0.88265 in. of Hg. 0.49116 lb. per sq. in. 13.596 in. of water 1.13299 ft. of water 14.696 lb. per sq. in. (PSIA) 760 mm. of Hg. 29.921 in. of Hg. 33.899 ft. of water 27.70 in. of water 2.036 in. of Hg0703066 kg. per sq. cm. 14.223 lb. per sq. in0000145 lb. per sq. in00001943 lb. per sq. in.
		= =	
ENERGY 1 B.T.U. 1 erg 1 erg 1 kilowatt hour 1 kilowatt hour 1 kg. calorie		= = = =	777.97 ft. lbs. 9.4805 x 10 ¹¹ B.T.U. 7.3756 x 10 ⁸ ft. lbs. 2.655 x 10 ⁶ ft. lbs. 1.3410 h.p. hr. 3.968 B.T.U.
POWER 1 horsepower 1 horsepower 1 horsepower 1 watt 1 watt		= = = = = = =	33,000 ft. lb. per min. 550 ft. lb. per sec. 2,546.5 B.T.U. per hr. 745.7 watts 0.00134 horsepower 44.26 ft. lbs. per min.
Temperature Centigrade (Temperature Reaumur Absolute Temperature	(F) (C) (R)	= = =	9/5 Centigrade (C) + 32 = 9/4 R + 32 5/9 Fahrenheit (F) – 32 = 5/4 R 4/9 Fahrenheit (F) – 32 = 4/5 C
	(K) (R)	= = =	Degrees C + 273.16 Degrees F + 459.69 $C = (F - 32) / 1.8$
HEAT TRANSFER 1 B.T.U. per sq. ft. 1 g. calorie per sq. cm. 1 B.T.U. per hr.		= =	.2712 g. cal. per sq. cm. 3.687 B.T.U. per sq. ft.
per sq. ft. per °F 1 Kg. cal. per hr.		=	4.88 kg. cal. per hr. per sq. m. per °C
per sq. m. per °C 1 Boiler Horsepower		=	.205 B.T.U. per hr. per sq. ft. per °F 33479 B.T.U. per hr.