

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. ft. = 7.4805 U.S. gal.
 1 cu. ft. = 6.229 British gal.
 1 cu. ft. = 28.317 liters
 1 U.S. gal. = 0.1337 cu. ft.
 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.

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.

Pressure

1 in. of water = 0.03613 lb. per sq. in.
 1 in. of water = 0.07355 in. of Hg.
 1 ft. of water = 0.4335 lb. per sq. in.
 1 ft. of water = 0.88265 in. of Hg.
 1 in. of mercury = 0.49116 lb. per sq. in.
 1 in. of mercury = 13.596 in. of water
 1 in. of mercury = 1,13299 ft. of water
 1 atmosphere = 14.696 lb. per sq. in.
 1 atmosphere = 760 mm. of Hg.
 1 atmosphere = 29.921 in. of Hg.
 1 atmosphere = 33.899 ft. of water
 1 lb. per sq. in. = 27.70 in. of water
 1 lb. per sq. in. = 2.036 in. of Hg.
 1 lb. per sq. in. = .0703066 kg. per sq. cm.
 1 kg. per sq. cm. = 14.223 lb. per sq. in.
 1 dyne per sq. cm. = .0000145 lb. per sq. in.
 1 micron = .00001943 lb. per sq. in.
 PSI to Bar PSI × 0.0689

Energy

1 B.T.U. = 777.97 ft. lbs.
 1 erg = 9.4805 × 10¹¹ B.T.U.
 1 erg = 7.3756 × 10⁹ ft. lbs.
 1 kilowatt hour = 2.655 × 10⁶ ft. lbs.
 1 kilowatt hour = 1,3410 h.p. hr.
 1 kg. calorie = 3.968 B.T.U.

Power

1 horsepower = 33,000 ft. lb. per min.
 1 horsepower = 550 ft. lb. per sec.
 1 horsepower = 2,546.5 B.T.U. per hr.
 1 horsepower = 745.7 watts
 1 watt = 0.00134 horsepower
 1 watt = 44.26 ft. lbs. per min.

Temperature

Temperature Fahrenheit (F) = 9/5 Centigrade (C) + 32 = 9/4 R + 32
 Temperature Centigrade (C) = 5/9 Fahrenheit (F) - 32 = 5/4 R
 Temperature Reaumur (R) = 4/9 Fahrenheit (F) - 32 = 4/5 C
 Absolute Temperature Centigrade or Kelvin (K) = Degrees C + 273.16
 Absolute Temperature Fahrenheit or Rankine (R) = Degrees F + 459.69
 F° to C C = (F-32)/1.8

Heat Transfer

1 B.T.U. per sq. ft. = .2712 g. cal. per sq. cm.
 1 g. calorie per sq. cm. = 3.687 B.T.U. per sq. ft.
 1 B.T.U. per hr. per sq. ft. per ° F. = 4.88 kg. cal. per hr. per sq. m. per ° C:
 1 Kg. cal. per hr. per sq. m. per ° C. = .205 B.T.U. per hr. per sq. ft. per ° F:
 1 Boiler Horsepower = 33479 B.T.U. per hr.

BETTER AT EVERY TURN



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