

Unit Converter

Acceleration

foot/second², meter/second², gal, galileo, inch/second²

- 1 m/s² = 3.28084 ft/s² = 100 cm/s² = 39.37 inch per second squared (inch/s²)
- 1 ft/s² = 0.3048 m/s² = 30.48 cm/s²
- 1 g = 9.80665 m/s² = 32.17405 ft/s²

Angle

- 1 circle = 360 degrees = 400 grades = 21600 minutes = 6.28318 radians = 12 signs
- 1 circumference = 360 degrees = 6.28318 radians
- 1 radian = 0.15915 circumference = 57.29578 degree = 3437.747 minute = 0.63662 quadrant = 0.15915 revolution = 206265 second

Area

acre, are, barn, sq.ft., sq.in., foot², hectare, inch², mile², section, meter², township, yard², hectares

- 1 m² = 1550 in² = 10.764 ft² = 1.1968 yd² = 3.861x10⁻⁷ mile²
- 1 ft² = 0.0929 m² = 144 in² = 0,1111 yd² = 3.587x10⁻⁸ mile²
- 1 in² = 6.452 cm² = 6.452x10⁻⁴ m² = 6.944x10⁻³ ft² = 7.716x10⁻⁴ yd² = 2.491x10⁻¹⁰ mile²
- 1 yd² = 0.8361 m² = 1,296 in² = 9 ft² = 0.3228x10⁻⁶ mile²
- 1 mile² = 2.590x10⁶ m² = 0.4015x10¹⁰ in² = 2.788x10⁷ ft² = 3.098x10⁶ yd²=640 Acres
- 1 acre = 1/640 square mile = 0.404686 ha (Hectares) = 4,046.86 m² = 43,560.174 Sq.Ft. (Int) = 43,560 Sq.Ft. (US Survey) = 4840 Sq. Yds. = 40.46873 are
- 1 km² = 10² ha² = 10⁶ m² = 10¹⁰ cm² = 10¹² mm²
- 1 ha (Hectare) = 10⁴ m² = 10⁸ cm² = 10¹⁰ mm² = 2.471 Acres
- 1 cm² = 10⁻⁴ m² = 0.155 in²
- 1 mm² = 1.55x10⁻³in²
- 1 township = 36 square mile = 23040 acre = 36 section = 9.323957 10⁷ m² = 9324 hectare = 93.24 square kilometer
- 1 section = 1 square mile = 2.59 10⁶ m² = 2.59 square kilometer = 259 hectare = 3.0976 10⁶ square yards = 640 acre =
- 1 are = 0.024711 acre (Int) = 1 sq dekameter = 1076.39 sq foot = 100 sq meter = 3.86102x10⁻⁵ sq mile = 119.599 sq yard
- 1 barn = 1x10⁻²⁴ sq cm
- 1 centiare = 0.01 are = 10.764 sq foot = 1550 sq inch = 1 sq meter = 1.19599 sq yard
- 1 circular mil = 1x10⁻⁶ circular inch = 5.06707x10⁻⁶ sq cm = 7.85398x10⁻⁷ sq inch = 0.000507 sq mm = 0.7854 sq mill
- 1 hectare = 2.471 acre 0 100 are = 1x10⁸ sq cm = 107639.1 sq foot = 10000 sq meter = 0.00386 sq mile = 395.367 sq rod
- 1 Marla = 30.25 Sq. Yards = 25.2928 Sq. Metres = 272.25 Sq. Feet = 0.00625 Acre = 0.05 Kanal

Capacitance

- 1 abfarad = 1x10⁹ farad = 1x10¹⁵ microfarad = 8.98755x10²⁰ statfarad
- 1 farad = 1x10⁻⁹ abfarad = 1.00049 farads (Int) = 1x10⁶ microfarad = 8.98755x10¹¹ statfarad

Conductance

- 1 abmho = 1000 megamho = 1×10^9 mho = 8.98755×10^{20} statmho

Current

- 1 abampere = 10 ampere = 1.03638×10^{-4} faraday/sec(chem) = 2.99792×10^{10} statampere = 1 biot
- 1 ampere = 0.1 abampere = 1.00015 ampere (Int) = 1 coulomb/sec = 1.03638×10^{-5} faraday/sec (chem) 1×10^6 microampere = 1000 milliampere = 2.99792×10^9 statampere
- 1 ampere (Int) = 0.99985 ampere
- 1 biot = 10 ampere

Density

kg/cubic meter, gram/centimeter³, lb_m/cubic inch, lb_m/cubic foot, slug/cubic foot, kilogram/cubic meter, lbm/gallon (US liq)

- [Density Water](#) 1,000 kg/m³ = 62.43 Lbs./Cu.Ft = 8.33 Lbs./Gal. = 0.1337 Cu.Ft./Gal.
- 1 lb/ft³ = 16.018 kg/m³ = 0.016 g/cm³ = 0.00926 oz/in³ = 2.57 oz/gal (Imperial) = 2.139 oz/gal (U.S.) = 0.0005787 lb/in³ = 27 lb/yd³ = 0.161 lb/gal (Imperial) = 0.134 lb/gal (U.S.) = 0.0121 ton/yd³
- 1 slug/ft³ = 515.379 kg/m³
- 1 kg/l = 62.43 lb/ft³
- 1 kg/m³ = 0.001 g/cm³ = 0.0005780 oz/in³ = 0.16036 oz/gal (Imperial) = 0.1335 oz/gal (U.S.) = 0.0624 lb/ft³ = 0.000036127 lb/in³ = 1.6856 lb/yd³ = 0.010022 lb/gal (Imperial) = 0.008345 lb/gal (U.S.) = 0.0007525 ton/yd³

Electric Charge

- 1 abcoulomb = 0.00278 ampere-hour = 10 coulomb = 6.24151×10^{19} electronic charge = 1.03632×10^{-4} faraday (chem) = 2.99792×10^{10} statcoulomb
- 1 ampere hour = 360 abcoulomb = 3600 coulomb = 0.03731 faraday (chem)
- 1 coulomb = 0.1 abcoulomb = 0.000278 ampere hour = 1 ampere second = 1.00015002 coulomb (Int) = 1.0363×10^{-5} faraday (chem) = 1.0360×10^{-5} faraday (phys) = 2.9979×10^9 statcoulomb

Electromotive Force, Voltage Difference

- abvolt = 0.01 microvolt = 1×10^{-5} millivolt = 1×10^{-8} volt

Energy, Unit of Heat

British Thermal Unit (Btu), calorie, joule, kilojoule, electron volt, erg, foot lb_f, foot poundal, kilocalorie, kilowatt hour, watt hour,

- 1 J (Joule) = 0,1020 kpm = 2.778×10^{-7} kWh = 2.389×10^{-4} kcal = 0.7376 ft lb_f = 1 (kg m²)/s² = 1 watt second = 1 Nm = 9.478×10^{-4} Btu
- 1 kpm = 9.80665 J = 2.724×10^{-6} kWh = 2.342×10^{-3} kcal = 7.233 ft lb_f = 9.295×10^{-3} Btu
- 1 kWh = 3.6×10^6 J = 3.671×10^5 kpm = 859.9 kcal = 2.656×10^6 ft lb_f = 3.412×10^3 Btu
- 1 kJ = 1 kNm = 1kWs = 10³ J = 0.947813 Btu = 737.6 ft lb_f = 0.23884 kcal
- 1 Btu (British thermal unit) = 1,055.06 J = 107.6 kpm = 2.92875×10^{-4} kWh = 251.996 calorie (IT - International Table calorie) = 0.252 kcal = 777.649 ft lb_f = 1.0544×10^{10} erg = 0.293 watt hour = 0.999331 Btu (Int Steam Tab) = 0.998560

Btu (mean) = 25020.1 foot-poundal = 107.514 kg force meter = 1.0751×10^7 gram-force cm = 0.000393 hp-hour = 10.456 liter atm = 1054.35 wattsecond

- 1 cal = 4.186 J
- 1 kcal = 4186,8 J = 426,9 kp m = 1.163×10^{-3} kWh = 3.088 ft lb_f = 3.9683 Btu = 1,000 cal
- 1 ft lb_f (foot pound force) = 1.3558 J = 0.1383 kp m = 3.766×10^{-7} kWh = 3.238×10^{-4} kcal = 1.285×10^{-3} Btu
- 1 hp h (horse power hour) = 2.6846×10^6 J = 0.7457 kWh
- 1 erg = 1 (g cm²)/s² = 10⁻⁷ J = 1 dyne-centimeter
- 1 eV = 1.602×10^{-19} J
- 1 Q = 10¹⁸ Btu = 1.055×10^{21} J
- 1 Quad = 10¹⁵ Btu
- 1 Therm = 100,000 Btu
- 1 kg m = 7.233 ft lb = 0.00929 Btu = 9.806 Joule

Energy per unit mass

- 1 kJ/kg = 1 J/g = 0.4299 Btu/lb_m = 0.23884 kcal/kg
- 1 Btu/lb_m = 2.326 kJ/kg = 0.55 kcal/kg
- 1 kcal/kg = 4.1868 kJ/kg = 1.8 Btu/lb_m

Energy per unit volume

- 1 Btu/US gal = 278.7 Btu/liter

Flow - see [Volume flow](#)

Force

dyne, kilogram force (kgf), kilopound force, kip, lbf (pound force), ounce force (avoirdupois), poundal, newton

- 1 N (Newton) = 0.1020 kp = 7.233 pdl = 7.233/32.174 lb_f = 0.2248 lb_f = 1 (kg m)/s² = 10⁵ dyne = 1/9.80665 kg_f
- 1 lb_f (Pound force) = 4.44822 N = 0.4536 kp = 32.17 pdl = 4.448×10^5 dyn
- 1 dyne = 1 (g cm)/s²
- 1 kg has a weight of 1 kp
- 1 kp (Kilopond) = 9.80665 N = 2.205 lb_f = 70.93 pdl
- 1 pdl (Poundal) = 0.13826 N = 0.01409 kp = 0.03108 lb_f

Frequency

- 1 hertz = 1 cycle/sec

Heat flow rate

- 1 Btu/sec = 1,055.1 W
- 1 kW (kJ/s) = 102.0 kpm/s = 859.9 kcal/h = 3,413 Btu/h = 1.360 hk = 1.341 hp = 738 ft lb/s = 1,000 J/s = 3.6×10^6 J/h
- 1 kpm/s = 9.8067×10^{-3} kW = 8.432 kcal/h = 32.47 Btu/h = 0.01333 hk = 0.01316 hp = 7.237 ft lb/s
- 1 kcal/h = 1.163×10^{-3} kW = 0.1186 kpm/s = 3.969 Btu/h = 1.582×10^{-3} hk = 1.560×10^{-3} hp = 0.8583 ft lb/s
- 1 Btu/h = 2.931×10^{-4} kW = 0.0299 kpm/s = 0.252 kcal/h = 3.986×10^{-4} hk = 3.939×10^{-4} hp = 0.2163 ft lb/s
- 1 kcal/h = 1.16×10^{-3} kW
- 1 hk (metric horse power) = 0.735499 kW = 75.00 kpm/s = 632.5 kcal/h = 2,510 Btu/h = 0.9863 hp = 542.8 ft lb/s

- 1 hp = 0.74570 kW = 76.04 kpm/s = 641.2 kcal/h = 2,545 Btu/h = 1.014 hk = 550.3 ft lb/s
- 1 ft lb/s = 1.35501 kW = 0.1382 kpm/s = 1.165 kcal/h = 4.625 Btu/h = 1.843x10⁻³ hk = 1.817x10⁻³ hp

Heat flux

- 1 Btu/ft² = 2.713 kcal/m² = 2.043x10⁴ J/m²K
- 1 Btu/ ft² h = 3.1525 W/m²
- 1 Btu/ft² °F = 4.88 kcal/m²K = 2.043x10⁴ J/m²K
- 1 kcal/m² = 0.369 Btu/ft²
- 1 kcal/m²K = 0.205 Btu/ft²°F

Heat generation per unit volume

- 1 Btu/ft³ = 8.9 kcal/m³ = 3.73x10⁴ J/m³
- 1 Btu/ft³ h = 10.343 W/m³
- 1 kcal/m³ = 0.112 Btu/ft³

Heat generation per unit mass

- 1 Btu/lb = 0.556 kcal/kg = 2,326 J/kg
- 1 kcal/kg = 1.800 Btu/lb

Heat transfer coefficient

- 1 Btu/ft² h °F = 5.678 W/m² K = 4.882 kcal/h m² °C
- 1 W/m²K = 0.85984 kcal/h m² °C = 0.1761 Btu/ ft² h °F
- 1 kcal/h m² °C = 1.163 W/m²K = 0.205 Btu/ ft² h °F

Hydraulic Gradients

- 1 ftH₂O/100 ft = 0.44 psi/100 ft = 9.8 kPa/100 m = 1000 mmH₂O/100 m
- 1 psi/100 ft = 2.3 ftH₂O/100 ft = 2288 mmH₂O/100 ft = 22.46 kPa/100 m

Inductance

- abhenry = 1x10⁻⁹ henry
- nery = 1x10⁹ abhenry = 0.9995 henry (Int) = 1000 millihenry = 1.113x10⁻¹² stathenry

Information Storage

- 1 bit = 0.125 byte (computers)
- 1 byte = 8 bit

Length

feet, meters, centimeters, kilometers, miles, furlongs, yards, micrometers, inches, angstrom, cubit, fathom, foot, hand, league, light year, micron, mil, nautical mile, rod,

- 1 m (meter) = 3.2808 ft = 39.37 in = 1.0936 yd = 6.214x10⁻⁴ mile



More Than Technology

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- 1 km = 0.6214 mile = 3281 ft = 1094 yds
- 1 in (inch) = 25.4 mm = 2.54 cm = 0.0254 m = 0.08333 ft = 0.02778 yd = 1.578×10^{-5} mile
- 1 ft (foot) = 0.3048 m = 12 in = 0.3333 yd = 1.894×10^{-4} mile = 30.48 cm = 304.8 mm
- 1 mm = 10^{-3} m
- 1 cm = 10^{-2} m = 0.3937 in = 0.0328 ft = 1×10^8 Angstrom = 0.03281 foot = 0.0984 hand (horses) = 0.3937 inch = 1×10^{-5} kilometer = 0.0497 link (Gunter) = 0.0328 (Ramden) = 1000 micrometer = 10000 micron = 5.3996×10^{-6} mile (naut) = 6.2137×10^{-6} mile (US statute) = 10 millimeter = 1×10^7 millimicron = 393.7 mil = 2.371 picas (printers) 28.4528 point (printers) = 0.00199 rod (US Survey) = 0.01094 yard
- 1 mm = 0.03937 in = 1000 micron
- 1 Angstrom = 10^{-10} m = 1×10^{-8} cm = 3.937×10^{-9} inch = 1×10^{-4} micrometer = 0.0001 micron = 0.1 millimicron
- 1 mile = 1.6093 km = 1,609.3 m = 63,346 in = 5,280 ft = 1,760 yd
- 1 mil (Norway and Sweden) = 10 kilometres
- 1 nm (nautical mile, sea mile) = 1,852 metres = 1.151 mile = 6076.1 feet = 0.016667 degree of latitude
- 1 yd (yard) = 0.9144 m = 36 in = 3 ft = 5.682×10^{-4} mile
- 1 Furlong = 660 feet = 40 rods = 1/8 mile
- 1 rod = 5.5 yards
- 1 land league = 3 miles
- 1 Fathom = 6 feet = 1.828804 meters
- 1 astronomical unit = 1.496×10^8 kilometer
- 1 cable (UK) = 0.00167 degree latitude = 185.37 meter
- 1 cable length (US Survey) = 120 fathom (US Survey) = 720 foot (US Survey) = 219.456 meter
- 1 caliber = 0.01 inch = 0.254 mm
- 1 chain (Gunter or US Survey) = 2011.7 centimeter = 66.00013 foot = 66 foot (US Survey) = 0.1 Furlong (US Survey) = 792 inch (US Survey) = 100 link (Gunter) = 66.00013 link (Ramden) = 20.117 meter = 0.0125 mile (US statute) = 4 rod (US Survey) = 22 yard (US Survey)
- 1 light year = 63241.08 astronomical unit = 9.46073×10^{12} kilometer = 5.8786×10^{12} mile (US statute) = 0.306601 parsec

Luminous Emittance (Illuminance)

- 1 lumen/sq ft = 1 foot candle = 1×10^4 lux = 1 phot
- 1 lux = 0.0929 foot candle = 1 lumen /sq meter = 0.0001 phot

Luminous Flux

- 1 candle power = 12.566 lumen
- 1 lumen = 1 candela steradian = 0.07958 candle power (spherical) = 0.0015 watt

Luminous Intensity

- 1 candela = 1.091 hefner candle (Germ) = 1 lumen/steradian

Magnetic Flux Density

- 1 gamma flux = 1×10^{-5} gauss = 1×10^{-6} gram = 1 microgram = 1×10^{-9} tesla
- 1 gauss = 0.9997 gauss (Int) = 1×10^5 gamma = 1 gilbert/cm = 1 maxwell/sq cm = 1 line/sq cm = 6.4516 line/sq inch = 1×10^{-4} tesla = 1×10^{-8} weber/sq cm = 6.452×10^{-8} weber/sq inch = 1×10^{-4} weber/sq meter

Magnitude of a Physical Quantity (Power or intensity relative to a specified or implied reference level)

- 1 bel = 10 decibel

- 1 decibel = 0.1 bel

Mass, Weight

pounds, kilograms, grams, ounces, grains, tons (long), tons (short), tons (metric), carat, grain, ounce mass, pound mass (lb_m), slug, tonne

- 1 kg = 1,000 gram = 2.2046 lb = 6.8521x10⁻² slug
- 1 lb_m = 16 oz = 0.4536 kg = 453.6 g = 7000 grains = 0.03108 slug
- 1 slug = 14.594 kg = 32.174 lb_m
- 1 grain = 0.000143 lb = 0.0648 g
- 1 g = 15.43 grains = 0.0353 oz = 0.002205 lb
- 1 qt = 0.9464 liters
- 1 metric ton (or tonne) = 1 tonne métrique = 1000 kg = 10⁶ g = 10⁹ mg = 1.10231131 short tons
- 1 short ton = 2000 lbs = 907.18474 kg
- 1 long ton = 2240 pounds = 1,016.0469088 kg
- 1 oz (ounce) = 28.35 g = 437.5 grains = 0.0625 lb = 0.0000279 long ton (UK) = 0.00003125 long ton (US) = 0.000558 long hundredweight (UK) = 0.000625 long hundredweight (US) = 0.004464 stone = 16 dram
- 1 troy pound = 12 troy ounces
- 1 troy ounce = 1/12 troy pound = 31.1034768 grams = 480 grains
- 1 scruple = 20 grains
- 1 dram = 3 scruples
- 1 apothecary ounce = 8 drams
- 1 apothecary pound = 12 apothecary ounces
- 1 pennyweight = 24 grains
- 1 Gal. H₂O = 8.33 Lbs. H₂O
- 1 cental (US) = 45.359 kilogram = 100 pound
- 1 carat (metric) = 3.0865 grain = 0.2 gram = 200 milligram
- 1 hectogram = 100 gram = 0.26769 pound (apoth or troy) = 0.2205 pound (avdp)
- [Density, Specific Weight and Specific Gravity](#) - An introduction and definition of density, specific weight and specific gravity. Formulas with examples.

Mass flow rate

- 1 lb/h = 1.26x10⁻⁴ kg/s
- 1 lb/s = 0.4536 kg/s
- 1 lb/min = 7.56x10⁻³ kg/s = 27.216 kg/s
- 1 kg/s = 3,600 kg/h = 132.28 lb/min
- 1 kg/h = 2.778x10⁻⁴ kg/s = 3.67x10⁻² lb/min

Moment of Inertia

- 1 kg m² = 10000 kg cm² = 54675 ounce in² = 3417.2 lb in² = 23.73 lb ft²

Nautical Measure

- 1 league = 3 nautical miles
- 1 nautical mile = 6067.10 feet = 1.1508 statute miles
- 1 knot (nautical unit of speed) = 1 nautical mile per hour
- one degree at the equator = 60 nautical miles = 69.047 statute miles
- 360 degrees = 21600 nautical miles = 24856.8 statute miles = circumference at equator

Power

horsepower, kilowatt, watt, btu/second, calorie/second, foot lbf/second, kilocalorie/second

- $1 \text{ W} = 1 \text{ kg m}^2/\text{s}^3 = 1 \text{ Nm/s} = 1 \text{ J/s} = 10,000,000 \text{ ergs per second}$
- $1 \text{ kW} = 1,000 \text{ Watts} = 3,412 \text{ Btu/h} = 737.6/550 \text{ British hp} = 1.341 \text{ British hp} = 10^3/9.80665 \text{ kg}_f \text{ m/s} = 737.6 \text{ ft lb}_f/\text{s} = 10^3/(9.80665 \cdot 75) \text{ metric hp}$
- $1 \text{ hp (English horse power)} = 745.7 \text{ W} = 0.746 \text{ kW} = 550 \text{ ft lb/s} = 2,545 \text{ Btu/h} = 33.000 \text{ ft lb/m} = 1.0139 \text{ metric horse power} \sim 1.0 \text{ KVA}$
- $1 \text{ horsepower (mech)} = 2542.47 \text{ Btu (mean)/hr} = 42.375 \text{ Btu (mean)/min} = 0.7062 \text{ Btu (mean)/sec} = 6.416 \times 10^5 \text{ calorie/hr (thermo)} = 6.412 \times 10^5 \text{ calorie (IST)/hr} = 6.4069 \times 10^5 \text{ calorie(mean)/hr} = 10694 \text{ calorie/min (thermo)} = 10686 \text{ calorie (IST)/min} = 10678 \text{ calorie (mean)/min} = 10.686 \text{ calorie, kg/min (IST)} = 7.457 \times 10^9 \text{ erg/sec} = 1980000 \text{ foot pound-force/hr} = 33000 \text{ foot pound-force/min} = 550 \text{ foot pound-force/sec} = 0.076 \text{ horsepower (boiler)} = 0.9996 \text{ horsepower (electric)} = 1.0139 \text{ horsepower (metric)} = 745.7 \text{ joule/sec} = 0.7457 \text{ kilowatt} = 0.7456 \text{ kilowatt (Int)} = 0.212 \text{ ton of refrigeration} = 745.7 \text{ watt}$
- $1 \text{ horsepower (boiler)} = 33445.6 \text{ Btu (mean)/hr} = 140671.6 \text{ calorie/min (thermo)} = 140469.4 \text{ calorie (mean)/min} = 140742.3 \text{ calorie (20°C)/min} = 9.8095 \times 10^{10} \text{ erg/sec} = 434107 \text{ foot-pound-force/min} = 13.1548 \text{ horsepower (mech)} = 13.1495 \text{ horsepower (electric)} = 13.3372 \text{ horsepower (metric)} = 13.1487 \text{ horsepower (water)} = 9809.5 \text{ joule/sec} = 9.8095 \text{ kilowatt}$
- $1 \text{ horsepower (electric)} = 2547.16 \text{ Btu/hr (thermo)} = 2545.46 \text{ Btu (IST)/hr} = 2543.49 \text{ Btu (mean)/hr} = 178.298 \text{ calorie/sec (thermo)} = 641.87 \text{ calorie, kg/hr (thermo)} = 7.46 \times 10^9 \text{ erg/sec} = 33013 \text{ foot pound-force/min} = 550.2 \text{ foot pound-force/sec} = 1.0004 \text{ horsepower (mech)} = 0.07605 \text{ horsepower (boiler)} = 1.01428 \text{ horsepower (metric)} = 0.99994 \text{ horsepower (water)} = 746 \text{ joule/sec} = 0.746 \text{ kilowatt} = 746 \text{ watt}$
- $1 \text{ horsepower (metric)} = 2511.3 \text{ Btu/hr (thermo)} = 2509.6 \text{ Btu (IST)/hr} = 2507.7 \text{ Btu (mean)/hr} = 6.328 \times 10^5 \text{ calorie/hr (thermo)} = 6.324 \times 10^5 \text{ calorie (IST)/hr} = 6.319 \times 10^5 \text{ calorie (mean)/hr} = 7.35 \times 10^9 \text{ ergs/sec} = 32548.6 \text{ foot pound-force/min} = 542.476 \text{ foot pound-force/sec} = 0.9863 \text{ horsepower (mech)} = 0.07498 \text{ horsepower (boiler)} = 0.9859 \text{ horsepower (electric)} = 0.98587 \text{ horsepower (water)} = 75 \text{ kg-force meter/sec (kg m/s)} = 0.7355 \text{ kilowatt} = 735.499 \text{ W} = 75 \text{ kg m/s}$
- $1 \text{ horsepower (water)} = 33015 \text{ foot pound-force/min} = 1.00046 \text{ horsepower (mech)} = 0.07605 \text{ horsepower (boiler)} = 1.00006 \text{ horsepower (electric)} = 1.01434 \text{ horsepower (metric)} = 0.746043 \text{ kilowatt}$
- $1 \text{ refrigeration Ton} = 12,000 \text{ Btu/h cooling} = 3.516 \text{ kW} = 3,025.9 \text{ k Calories/h}$
- $1 \text{ cooling tower Ton} = 15,000 \text{ Btu/h} = 3,782 \text{ k Calories/h}$
- $1 \text{ ft lb/s} = 1.3558 \text{ W}$
- $1 \text{ Btu/s} = 1055.1 \text{ W}$
- $1 \text{ Btu/h} = 1 \text{ Btuh} = 0.293 \text{ W} = 0.001 \text{ MBH}$
- $1 \text{ cheval vapeur (French)} = 0.98632 \text{ horsepower}$

Power per unit area

- $1 \text{ W/m}^2 = 0.3170 \text{ Btu/(h ft}^2) = 0.85984 \text{ kcal/(h m}^2)$

Pressure

atmosphere, centimeters of mercury, foot of water, bar, barye, centimeter of water, dyne/centimeter², inch of mercury, inch of water, kgf/centimeter², kgf/meter², lbf/foot², lbf/inch² (psi), millibar, millimeter of mercury, pascal, torr, newton/meter²

- [Standard Atmospheric Pressure](#) $1 \text{ atm} = 101.325 \text{ kN/m}^2 = 1.01325 \text{ bar} = 101.325 \text{ kPa} = 14.7 \text{ psia} = 0 \text{ psig} = 29.92 \text{ in Hg} = 760 \text{ torr} = 33.95 \text{ Ft.H}_2\text{O} = 407.2 \text{ In.W.G (Water Gauge)} = 2116.8 \text{ Lbs./Sq.Ft.}$
- $1 \text{ N/m}^2 = 1 \text{ Pa} = 1.4504 \times 10^{-4} \text{ lb/in}^2 = 1 \times 10^{-5} \text{ bar} = 4.03 \times 10^{-3} \text{ in water} = 0.336 \times 10^{-3} \text{ ft water} = 0.1024 \text{ mm water} = 0.295 \times 10^{-3} \text{ in mercury} = 7.55 \times 10^{-3} \text{ mm mercury} = 0.1024 \text{ kg/m}^2 = 0.993 \times 10^{-5} \text{ atm}$
- $1 \text{ Pa} = 10^{-6} \text{ N/mm}^2 = 10^{-5} \text{ bar} = 0.1020 \text{ kp/m}^2 = 1.02 \times 10^{-4} \text{ m H}_2\text{O} = 9.869 \times 10^{-6} \text{ atm} = 1.45 \times 10^{-4} \text{ psi (lbf/in}^2)$
- $1 \text{ N/mm}^2 = 10^6 \text{ Pa} = 10 \text{ bar} = 1.020 \times 10^5 \text{ kp/m}^2 = 102.0 \text{ m H}_2\text{O} = 9.869 \text{ atm} = 145.0 \text{ psi (lbf/in}^2)$



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- 1 mmHg = 1 torr = 0.01934 lb/in²
- 1 atm = 101,325 Pa (N/m²) = 1.013x10² kN/m² = 1.033x10⁴ kp/m² = 1.033 kp/cm² = 1.013 bar = 14.696 psi (lb/in²) = 407.1 in H₂O at 62 °F (16.7 °C) = 33.9 ft H₂O at 62 °F (16.7 °C) = 10.33 m H₂O at 62 °F (16.7 °C) = 29.92 in mercury at 62 °F (16.7 °C) = 760 mm mercury at 62 °F (16.7 °C) = 760 torr
- 1 bar = 1x10⁵ Pa (N/m²) = 0.1 N/mm² = 10,197 kp/m² = 10.20 m H₂O = 0.98692 atm = 14.5038 psi (lb_f/in²) = 1x10⁶ dyne/sq cm = 750 mmHg = 1x10⁶ barye (French) = 75.0062 cm Hg (0°C) = 33.4883 ft H₂O (60°F) = 1019.72 gram-force/sq cm = 29.530 in Hg (32°F) = 1.01972 kg-force/sq cm = 1000 millibar = 2088.54 pound-force/sq foot
- 1 kp/m² = 9.81 Pa (N/m²) = 9.807x10⁻⁶ N/mm² = 10⁻³ m H₂O = 1 mm H₂O = 0.9681x10⁻⁴ atm = 1.422x10⁻³ psi (lb/in²) = 0.0394 in H₂O = 0.0736 mm mercury
- 1 psi (lb_f/in²) = 144 psf (lb_f/ft²) = 6,894.8 Pa (N/m²) = 6.895x10⁻³ N/mm² = 6.895x10⁻² bar = 27.71 in H₂O at 62°F (16.7°C) = 703.1 mm H₂O at 62°F (16.7°C) = 2.0416 in mercury at 62°F (16.7°C) = 51.8 mm mercury at 62°F (16.7°C) = 703.6 kg/m² = 0.06895 atm = 2.307 Ft. H₂O = 16 ounces
- 1 psf (lb_f/ft²) = 47.88 N/m² (Pa) = 0.006944 lb_f/in² (psi)
- 1 dyn/cm² = 145.04x10⁻⁷ lb_f/in²
- 1 in mercury (Hg) = 3,376.8 N/m² = 0.49 lb/in² = 12.8 in water
- 1 Ounce = 1.73 In.W.C.
- 1 Ft.H₂O = 0.4335 psi = 62.43 Lbs./Sq.Ft.
- 1 in water = 248.8 N/m² = 0.0361 lb/in² = 25.4 kg/m² = 0.0739 in mercury
- 1 m H₂O = 9806.7 Pa = 9.807x10⁻³ N/mm² = 0.0987 bar = 1,000 kp/m² = 0.09678 atm = 1.422 psi (lb_f/in²)
- 1 mm water = 9.81 Pa (N/m²) = 1 kg/m² = 0.0736 mm mercury = 0.9677x10⁻⁴ atm
- 1 mm mercury = 0.0193 lb/in² = 133 N/m² = 12.8 mm water
- 1 barye (French) = 1.0 dyne/sq cm = 0.10 newton/sq meter = 0.10 Pascal

Note! When using pressure units based on liquid columns (like mm Water, in Water, mm Hg ...) - be aware that densities of liquids varies with temperature. For more exact conversions consult [temperature density sources](#) for the actual liquids.

Radioactivity

- 1 becquerel = 2.7027x10⁻¹¹ curie = 1 disintegration/sec

Resistance, Electrical

- 1 abohm = 1x10⁻¹⁵ megohm = 0.001 microohm = 1x10⁻⁹ ohm

Rotation

revolutions,

- 1 r/min (rpm) = 0.01667 r/s = 0.105 rad/s
- 1 r/s = 60 r/min = 6.28 rad/s
- 1 rad/s = 9.55 r/min (rpm) = 0.159 r/s (rps)

Specific energy, enthalpy, entropy

- 1 Btu/lb_m = 2,326.1 J/kg = 0.55556 kcal/kg = 778.2 ft lb_f / lb_m = 3.9 10⁻⁴ hp hr / lb_m = 5.4 lb_f/in² / lb_m/ft³ = 0.237 kp m / g = 5.56 10⁻⁴ kcal/g = 2.326 kJ/kg
- 1 J/kg = 4.299x10⁻⁴ Btu/lb_m = 2.388x10⁻⁴ kcal/kg
- 1 kcal/kg = 1.80 Btu/lb_m = 4,187 J/kg

Specific heat capacity

- $1 \text{ J}/(\text{kg K}) = 2.389 \times 10^{-4} \text{ kcal}/(\text{kg } ^\circ\text{C}) = 2.389 \times 10^{-4} \text{ Btu}/(\text{lb}_m \text{ } ^\circ\text{F})$
- $1 \text{ kJ}/(\text{kg K}) = 0.2389 \text{ kcal}/(\text{kg } ^\circ\text{C}) = 0.2389 \text{ Btu}/(\text{lb}_m \text{ } ^\circ\text{F})$
- $1 \text{ Btu}/(\text{lb}_m \text{ } ^\circ\text{F}) = 4,186.8 \text{ J}/(\text{kg K}) = 1 \text{ kcal}/(\text{kg } ^\circ\text{C})$
- $1 \text{ kcal}/(\text{kg } ^\circ\text{C}) = 4,186.8 \text{ J}/(\text{kg K}) = 1 \text{ Btu}/(\text{lb}_m \text{ } ^\circ\text{F})$

Specific Energy

- $1 \text{ kJ}/\text{kg} = 1 \text{ J}/\text{g} = 0.4299 \text{ Btu}/\text{lb}_m = 0.23884 \text{ kcal}/\text{kg}$
- $1 \text{ Btu}/\text{lb}_m = 2.326 \text{ kJ}/\text{kg} = 0.55 \text{ kcal}/\text{kg}$
- $1 \text{ kcal}/\text{kg} = 4.1868 \text{ kJ}/\text{kg} = 1.8 \text{ Btu}/\text{lb}_m$

Specific Volume

- $1 \text{ m}^3/\text{kg} = 16.02 \text{ ft}^3/\text{lb}_m = 27680 \text{ in}^3/\text{lb}_m = 119.8 \text{ US gal}/\text{lb}_m = 1000 \text{ liter}/\text{kg}$
- $1 \text{ liter}/\text{kg} = 0.016 \text{ ft}^3/\text{lb}_m = 27.7 \text{ in}^3/\text{lb}_m = 0.12 \text{ US gal}/\text{lb}_m = 0.001 \text{ m}^3/\text{kg}$
- $1 \text{ ft}^3/\text{lb}_m = 1728 \text{ in}^3/\text{lb}_m = 7.48 \text{ US gal}/\text{lb}_m = 62.43 \text{ liter}/\text{kg} = 0.062 \text{ m}^3/\text{kg}$
- $1 \text{ in}^3/\text{lb}_m = 0.00058 \text{ ft}^3/\text{lb}_m = 0.0043 \text{ US gal}/\text{lb}_m = 0.036 \text{ liter}/\text{kg} = 0.000036 \text{ m}^3/\text{kg}$
- $1 \text{ US gal}/\text{lb}_m = 0.134 \text{ ft}^3/\text{lb}_m = 231 \text{ in}^3/\text{lb}_m = 8.35 \text{ liter}/\text{kg} = 0.0083 \text{ m}^3/\text{kg}$

Stress

- $1 \text{ psi} (\text{lb}/\text{in}^2) = 144 \text{ psf} (\text{lb}_f/\text{ft}^2) = 6,894.8 \text{ Pa} (\text{N}/\text{m}^2) = 6.895 \times 10^{-3} \text{ N}/\text{mm}^2$
- $1 \text{ N}/\text{m}^2 = 1 \text{ Pa} = 1.4504 \times 10^{-4} \text{ lb}/\text{in}^2$

Surveyor's Measure

- $1 \text{ mile} = 8 \text{ furlongs} = 80 \text{ chains}$
- $1 \text{ furlong} = 10 \text{ chains} = 220 \text{ yards}$
- $1 \text{ chain} = 4 \text{ rods} = 22 \text{ yards} = 66 \text{ feet} = 100 \text{ links}$
- $1 \text{ link} = 7.92 \text{ inches}$

Temperature

celsius, rankine, kelvin, centigrade, fahrenheit,

- $1 \text{ } ^\circ\text{C} (\text{dt}) = 1.8 \text{ } ^\circ\text{F} (\text{dt})$ - temperature difference
- $1 \text{ } ^\circ\text{F} (\text{dt}) = 0.555 \text{ } ^\circ\text{C} (\text{dt})$ - temperature difference
- $0 \text{ } ^\circ\text{C}$ corresponds to $32 \text{ } ^\circ\text{F}$, 273.16 K and 491.69 R
- $1 \text{ } ^\circ\text{R} = 5/9 \text{ K}$
- $T(^{\circ}\text{F}) = [T(^{\circ}\text{C})](9/5) + 32$
- $T(^{\circ}\text{F}) = [T(\text{K}) - 273.15](9/5) + 32$
- $T(^{\circ}\text{C}) = 5/9[T(^{\circ}\text{F}) - 32]$

Thermal Conductivity

- $1 \text{ W}/(\text{m K}) = 0.85984 \text{ kcal}/(\text{h m } ^\circ\text{C}) = 0.5779 \text{ Btu}/(\text{ft h } ^\circ\text{F}) = 0.048 \text{ Btu}/(\text{in h } ^\circ\text{F})$
- $1 \text{ Btu}/(\text{ft h } ^\circ\text{F}) = 1.731 \text{ W}/(\text{m K}) = 1.488 \text{ kcal}/(\text{h m } ^\circ\text{C})$
- $1 \text{ kcal}/(\text{h m } ^\circ\text{C}) = 1.163 \text{ W}/(\text{m K}) = 0.6720 \text{ Btu}/(\text{ft h } ^\circ\text{F})$

Thermal Diffusivity

- $1 \text{ ft}^2 / \text{s} = 0.0929 \text{ m}^2/\text{s}$
- $1 \text{ ft}^2 / \text{h} = 2.581 \times 10^{-5} \text{ m}^2/\text{s}$

Thermal resistance

- $1 (\text{h } ^\circ\text{F})/\text{Btu} = 1.8958 \text{ K/W}$

Time

year, month, day, hour, minute, second, millisecond

- $1 \text{ h} = 3600 \text{ s} = 60 \text{ min}$
- $1 \text{ ms (millisecond)} = 10^{-3} \text{ s}$
- $1 \mu\text{s (microsecond)} = 10^{-6} \text{ s}$
- $1 \text{ ns (nanosecond)} = 10^{-9} \text{ s}$
- $1 \text{ day (mean solar)} = 1.0027379 \text{ day (sidereal)} = 24 \text{ hour (mean solar)} = 24.06571 \text{ hour (sidereal)} = 0.0027397 \text{ year (calendar)} = 0.002738 \text{ year (sidereal)} = 0.002738 \text{ year (tropical)}$

Torque, Moment

foot-pound torque, newton-meter

- $1 \text{ ft lb} = 1.356 \text{ Nm}$

Velocity, Speed

foot/second, inch/second, meter/second, kilometer/hour, knot, mile/hour, nautical mile per hour

- $1 \text{ ft/s} = 0.3048 \text{ m/s}$
- $1 \text{ ft/min} = 5.08 \times 10^{-3} \text{ m/s} = 0.0183 \text{ km/h} = 0.0114 \text{ mph}$
- $1 \text{ mph} = 0.44703 \text{ m/s} = 1.609 \text{ km/h} = 88 \text{ ft/min} = 5280 \text{ ft/hr} = 1.467 \text{ Ft./sec.} = 0.8684 \text{ knots}$
- $1 \text{ m/s} = 3.6 \text{ km/h} = 196.85 \text{ ft/min} = 2.237 \text{ mph}$
- $1 \text{ km/h} = 0.2778 \text{ m/s} = 54.68 \text{ ft/min} = 0.6214 \text{ mph} = 0.5396 \text{ knot}$
- $1 \text{ knot (nautical mile per hour)} = 0.514444444 \text{ m/s} = 1.852 \text{ kilometers per hour} = 1.1515 \text{ miles per hour} = 1 \text{ nautical miles per hour}$
- $1 \text{ League} = 3.0 \text{ Miles}$
- $1 \text{ cm/sec} = 1.9685 \text{ foot/min} = 0.0328 \text{ foot/sec} = 0.036 \text{ km/hr} = 0.0194 \text{ knots (Int)} = 0.6 \text{ meter/min} = 0.02237 \text{ mile/hr} = 0.000373 \text{ mile/min}$

Viscosity Dynamic

- $1 \text{ lb}/(\text{ft s}) = 1.4879 \text{ Pa s} = 14.88 \text{ P} = 1,488 \text{ cP} = 0.1517 \text{ kp s/m}^2$
- $1 \text{ cP (Centipoise)} = 10^{-3} \text{ Pa s} = 0.01 \text{ Poise} = 1.020 \times 10^{-4} \text{ kp s/m}^2 = 6.721 \times 10^{-4} \text{ lb}/(\text{ft s}) = 0.00100 \text{ (N s)}/\text{m}^2 = 0.01 \text{ gram}/(\text{cm sec}) = 2.4191 \text{ lb}/(\text{ft hr})$
- $1 \text{ kg}/(\text{m s}) = 1 \text{ (N s)}/\text{m}^2 = 0.6720 \text{ lb}_m/(\text{ft s}) = 10 \text{ Poise}$
- $1 \text{ P (Poise)} = 0.1 \text{ Pa s} = 100 \text{ cP} = 1.020 \times 10^{-2} \text{ kp s/m}^2 = 6.721 \times 10^{-2} \text{ lb}/(\text{ft s}) = 0.1 \text{ kg/ms}$
- $1 \text{ Pa s (N s/m}^2) = 10 \text{ P (Poise)} = 10^3 \text{ cP} = 0.1020 \text{ kp s/m}^2 = 0.6721 \text{ lb}/(\text{ft s})$
- $1 \text{ kp s/m}^2 = 9.80665 \text{ Pa s} = 98.07 \text{ P} = 9,807 \text{ cP} = 6.591 \text{ lb}/(\text{ft s})$

- $1 \text{ reyns} = 1 \text{ lb}_f \text{ s/in}^2 = 6894.76 \text{ Pa s}$
- [Dynamic, Absolute and Kinematic Viscosity](#) - An introduction to dynamic, absolute and kinematic viscosity and how to convert between CentiStokes (cSt), CentiPois (cP), Saybolt Universal Seconds (SSU) and degree Engler.

Viscosity Kinematic

- $1 \text{ ft}^2/\text{s} = 0.0929 \text{ m}^2/\text{s}$
- $1 \text{ ft}^2/\text{h} = 2.581 \times 10^{-5} \text{ m}^2/\text{s}$
- $1 \text{ St (Stokes)} = 1 \times 10^{-4} \text{ m}^2/\text{s} = 100 \text{ cSt} = 1.076 \times 10^{-3} \text{ ft}^2/\text{s}$
- $1 \text{ m}^2/\text{s} = 10^4 \text{ St} = 10^6 \text{ cSt} = 10.764 \text{ ft}^2/\text{s} = 38750 \text{ ft}^2/\text{h}$
- $1 \text{ cSt (Centistoke)} = 10^{-6} \text{ m}^2/\text{s} = 0.01 \text{ Stokes} = 1.076 \times 10^{-5} \text{ ft}^2/\text{s} = 1 \text{ square mm/sec}$

Volume

barrel, gallon, cubic centimeter (cm^3), cubic feet (foot^3), cubic inch (inch^3), cubic meter (meter^3), cubic yard (yard^3), quarts, liters, acre foot, board foot, bushel, cord, cup, dram, fluid ounce, peck, pint, quart, tablespoon, teaspoon,

- $1 \text{ ft}^3 = 0.02832 \text{ m}^3 = 28.32 \text{ dm}^3 = 0.03704 \text{ yd}^3 = 6.229 \text{ Imp. gal (UK)} = 7.481 \text{ gal (US)} = 1,728 \text{ cu inch} = 2.296 \times 10^{-5} \text{ acre foot} = 12 \text{ board foot (timber)} = 0.7786 \text{ bushel (UK)} = 0.8036 \text{ bushel (US, dry)} = 0.00781 \text{ cord (firewood)} = 0.0625 \text{ cord foot (timber)} = 28316.8 \text{ cu centimeter} = 6.42851 \text{ gallon (US, dry)} = 7.48052 \text{ gallon (US, liq)} = 28.3168 \text{ liter} = 996.614 \text{ ounce (UK, liq)} = 957.506 \text{ ounce (US, liq)} = 51.4281 \text{ pint (US, dry)} = 59.84442 \text{ pint (US, liq)} = 25.714 \text{ quart (US, dry)} = 29.922 \text{ quart (US, liq)}$
- $1 \text{ in}^3 = 1.6387 \times 10^{-5} \text{ m}^3 = 1.639 \times 10^{-2} \text{ dm}^3 \text{ (liter)} = 16.39 \text{ cm}^3 = 16390 \text{ mm}^3 = 0.000579 \text{ ft}^3$
- $1 \text{ Gallon (U.S.)} = 3.785 \times 10^{-3} \text{ m}^3 = 3.785 \text{ dm}^3 \text{ (liter)} = 231 \text{ in}^3 = 0.13368 \text{ ft}^3 = 4.951 \times 10^{-3} \text{ yd}^3 = 0.8327 \text{ Imp. gal (UK)} = 4 \text{ Quarts} = 8 \text{ Pints}$
- $1 \text{ Imp. gallon (UK)} = 4.546 \times 10^{-3} \text{ m}^3 = 4.546 \text{ dm}^3 = 0.1605 \text{ ft}^3 = 5.946 \times 10^{-3} \text{ yd}^3 = 1.201 \text{ gal (US)}$
- $1 \text{ dm}^3 \text{ (Liter)} = 10^{-3} \text{ m}^3 = 0.03532 \text{ ft}^3 = 1.308 \times 10^{-3} \text{ yd}^3 = 0.220 \text{ Imp gal (UK)} = 0.2642 \text{ Gallons (US)} = 1.057 \text{ Quarts} = 2.113 \text{ Pints}$
- $1 \text{ yd}^3 = 0.7646 \text{ m}^3 = 764.6 \text{ dm}^3 = 27 \text{ ft}^3 = 168.2 \text{ Imp. gal (UK)} = 202.0 \text{ gal (US)} = 46,656 \text{ Cu.In.} = 1616 \text{ Pints} = 807.9 \text{ Quarts} = 764.6 \text{ Liters}$
- $1 \text{ pint (pt)} = 0.568 \text{ dm}^3 \text{ (liter)} = 16 \text{ fl. oz. (fluid ounce)} = 28.88 \text{ in}^3$
- $1 \text{ km}^3 = 10^9 \text{ m}^3 = 10^{12} \text{ dm}^3 \text{ (liter)} = 10^{15} \text{ cm}^3 = 10^{18} \text{ mm}^3$
- $1 \text{ cm}^3 = 0.061 \text{ in}^3 = 0.00042 \text{ board foot} = 2.7496 \times 10^{-5} \text{ bushel (UK)} = 2.8378 \times 10^{-5} \text{ bushel (US, dry)} = 3.5315 \times 10^{-5} \text{ cu foot} = 0.06102 \text{ cu inch} = 1 \times 10^{-6} \text{ cu meter} = 1.308 \times 10^{-6} \text{ cu yard} = 0.28156 \text{ drachm (UK, liq)} = 0.27051 \text{ dram (US, liq)} = 0.000227 \text{ gallon (UK)} = 0.00027 \text{ gallon (US, dry)} = 0.000264 \text{ gallon (US, liq)} = 0.0074 \text{ gill (UK)} = 0.00845 \text{ gill (US)} = 0.001 \text{ liter} = 0.035195 \text{ ounce (UK, liq)} = 0.033814 \text{ ounce (US, liq)} = 0.00182 \text{ pint (US, dry)} = 0.00211 \text{ pint (US, liq)} = 0.00088 \text{ quart (UK)} = 0.00091 \text{ quart (US, dry)} = 0.00106 \text{ quart (US, liq)}$
- $1 \text{ m}^3 = 10^3 \text{ dm}^3 \text{ (liter)} = 35.31 \text{ ft}^3 = 1.3093 \text{ yd}^3 = 220.0 \text{ Imp. gal (UK)} = 264.2 \text{ gal (US)} = 61,023 \text{ Cu.In.} = 35.31 \text{ Cu.Ft} = 0.1 \text{ decistere}$
- $1 \text{ Hogshead} = 63 \text{ gallon} = 8.42184 \text{ Cu.Ft}$
- $1 \text{ barrel (UK)} = 1.5 \text{ bag (UK)} = 1.41541 \text{ barrel (US, dry)} = 1.37251 \text{ barrel (US, liq)} = 4.5 \text{ bushel (UK)} = 4.64426 \text{ bushel (US, dry)} = 5.77957 \text{ cu ft} = 0.16366 \text{ cu meter} = 36 \text{ gallon (UK)} = 163.6592 \text{ liter}$
- $1 \text{ barrel beer} = 31.5 \text{ gallons beer}$
- $1 \text{ barrel (US, oil)} = 1.33 \text{ barrel (US, liq)} = 5.61458 \text{ cu foot} = 42 \text{ gallons (US, liq)} = 158.9873 \text{ liter}$
- $1 \text{ barrel (US, dry)} = 0.969696 \text{ barrel (US, liq)} = 3.28122 \text{ bushel (US, dry)} = 4.0833 \text{ cu ft} = 7056 \text{ cu inch} = 0.11563 \text{ cu meter} = 104.999 \text{ quart (US, dry)}$
- $1 \text{ barrel (US, liq)} = 1.03125 \text{ barrel (US, dry)} = 0.75 \text{ barrel (US, oil)} = 4.2109 \text{ cu foot} = 7276.5 \text{ cu inch} = 0.11924 \text{ cu meter} = 26.22924 \text{ gallon (UK)} = 31.5 \text{ gallon (US, liq)} = 119.24 \text{ liter} =$
- $1 \text{ bushel} = 1.2445 \text{ Cu.Ft.} = 32 \text{ Quarts (Dry)} = 64 \text{ Pints (dry)} = 4 \text{ Pecks}$
- $1 \text{ bushel (UK)} = 0.3333 \text{ bag (UK)} = 1.03206 \text{ bushel (US)} = 36368.7 \text{ cu cm} = 1.28435 \text{ cu foot} = 2219 \text{ cu inch} = 8 \text{ gallon (UK)} = 36.3687 \text{ liter}$



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- 1 bushel (US, dry) = 0.30476 barrel (US, dry) = 0.96894 bushel (UK) = 35239.07 cu cm = 1.24446 cu foot = 2150.42 cu inch = 0.03524 cu meter 0.04609 cu yard = 8 gallon (US, dry) = 9.30918 gallon (US, liq) = 35.23907 liter = 1191.57 ounce (US, liq) = 4 peck (US) = 64 pint (US, dry) = 32 quart (US, dry) = 37.23671 quart (US, liq)
- 1 quart (qt) = 2 pints = $57.75 \text{ in}^3 = 1/8$ dry quarts
- 1 fluid ounce (fl. oz.) = 2 tablespoons = $1.805 \text{ in}^3 = 29.574$ milliliters
- 1 cord (firewood) = 128 cu foot = 8 cord foot (timber) = 3.6246 cu meter
- 1 cord foot (timber) = 0.125 cord (firewood) = 16 cu foot
- 1 peck = 8 dry quarts
- 1 cup = 8 fl.oz. (fluid ounce)
- 1 cup (metric) = 200 milliliter
- 1 cup, tea = 0.25 pint = 142.06 milliliter
- 1 board foot = piece of lumber 1 foot wide x 1 foot long x 1 inch thick = 2359.74 cu cm = 0.083333 cu foot = 144 cu inch
- 1 acre foot = 43560 cu foot = 1233.482 cu meter = 1613.33 cu yard = 3.259×10^5 gallon (US liquid)
- 1 acre inch = 3630 cu foot = 102.7901531 cu meter = 134.44 cu yard = 27154.286 gallon (US)
- 1 bucket (UK) = 18184.35 cu cm = 4 gallon (UK)
- 1 butt (UK, liq) = 16.2549 bushel (US) = 20.2285 cu foot = 0.57281 cu meter = 151.3197 gallon (US)
- 1 chaldron (UK, liq) = 36 bushel (UK)
- 1 dram (US, liq) = 3.6967 cu cm = 0.225586 cu inch = 1.04084 drachm (UK, liq) = 0.03125 gill (US) = 3.69669 millimeter = 60 minim (US) = 0.125 ounce (US, liq) = 0.0078125 pint (US, liq)
- 1 fifth (US, liq) = 17.067 jigger (US, liq) = 0.75708 liter = 25.6 ounce (US, liq) = 1.6 pint (US, liq) = 25.6 pony (US, liq) = 0.8 quart (US, liq) = 25.6 shot (US, liq)
- 1 firkin (UK) = 1.125 bushel (UK) = 40914.8 cu cm = 1.44489 cu foot = 1.20095 firkin (US) = 9 gallon (UK) = 40.91481 liter = 72 pint (UK)
- 1 hectoliter = 2.7496 bushel (UK) = 2.8378 bushel (US, dry) = 1×10^5 cu cm = 3.5315 cu foot = 26.417 gallon (US, liq) = 100 liter = 3381.4 ounce (US, liq) = 11.351 peck (US)

Volume Flow

- $1 \text{ dm}^3/\text{s}$ (kg/s water) = 13.20 Imp. gal (UK)/min
- $1 \text{ m}^3/\text{s} = 3,600 \text{ m}^3/\text{h} = 1,000 \text{ dm}^3(\text{liter})/\text{s} = 35.32 \text{ ft}^3/\text{s} = 2,118.9 \text{ ft}^3/\text{min} = 13,200 \text{ Imp.gal (UK)}/\text{min} = 15,852 \text{ gal (US)}/\text{min}$
- $1 \text{ m}^3/\text{h} = 2.7778 \times 10^{-4} \text{ m}^3/\text{s} = 0.2778 \text{ dm}^3(\text{litre})/\text{s} = 9.810 \times 10^{-3} \text{ ft}^3/\text{s} = 0.5886 \text{ ft}^3/\text{min (cfm)} = 3.667 \text{ Imp.gal (UK)}/\text{min} = 4.403 \text{ gal (US)}/\text{min}$
- $1 \text{ m}^3/\text{h} = 10^3 \text{ dm}^3(\text{litre})/\text{h} = 16.67 \text{ dm}^3(\text{litre})/\text{min} = 0.27878 \text{ dm}^3(\text{litre})/\text{s}$
- $1 \text{ ft}^3/\text{min} = 1.7 \text{ m}^3/\text{h} = 0.47 \text{ l/s} = 62.43 \text{ Lbs.H}_2\text{O}/\text{Min.}$
- $1 \text{ dm}^3(\text{litre})/\text{s} = 10^{-3} \text{ m}^3/\text{s} = 3.6 \text{ m}^3/\text{h} = 0.03532 \text{ ft}^3/\text{s} = 2.1189 \text{ ft}^3/\text{min (cfm)} = 13.200 \text{ Imp.gal (UK)}/\text{min} = 15.852 \text{ gal (US)}/\text{min} = 792 \text{ Imp. gal (UK)}/\text{h}$
- $1 \text{ dm}^3(\text{litre})/\text{s} = 60 \text{ litre}/\text{min} = 3,600 \text{ litre}/\text{h}$
- $1 \text{ ft}^3/\text{s} = 0.0283168 \text{ m}^3/\text{s} = 101.9 \text{ m}^3/\text{h} = 28.32 \text{ dm}^3(\text{litre})/\text{s} = 60 \text{ ft}^3/\text{min} = 373.7 \text{ Imp.gal (UK)}/\text{min} = 448.9 \text{ gal (US)}/\text{min}$
- $1 \text{ Imp.gal (UK)}/\text{min} = 7.57682 \times 10^{-5} \text{ m}^3/\text{s} = 0.273 \text{ m}^3/\text{h} = 0.0758 \text{ dm}^3(\text{litre})/\text{s} = 2.675 \times 10^{-3} \text{ ft}^3/\text{s} = 0.1605 \text{ ft}^3/\text{min} = 1.201 \text{ gal (US)}/\text{min}$
- $1 \text{ gal (US)}/\text{min} = 6.30888 \times 10^{-5} \text{ m}^3/\text{s} = 0.227 \text{ m}^3/\text{h} = 0.06309 \text{ dm}^3(\text{litre})/\text{s} = 2.228 \times 10^{-3} \text{ ft}^3/\text{s} = 0.1337 \text{ ft}^3/\text{min} = 0.8327 \text{ Imperial gal (UK)}/\text{min}$