

English Conversion Factors & Data

| From | To | Multiply By |
|---|------------------------|-------------|
| Measurements | | |
| Cubic Feet | Cubic Inches | 1728.0 |
| Cubic Inches | Cubic Feet | 0.00058 |
| Cubic Feet | Gallons | 7.480 |
| Gallons | Cubic Feet | 0.1337 |
| Cubic Inches | Gallons | 0.00433 |
| Gallons | Cubic Inches | 231.0 |
| Barrels | Gallons | 42.0 |
| Gallons | Barrels | 0.0238 |
| Imperial Gallons | US Gallons | 1.2009 |
| US Gallons | Imperial Gallons | 0.8326 |
| Feet | Inches | 12.0 |
| Inches | Feet | 0.0833 |
| Square Feet | Square Inches | 144.0 |
| Square Inches | Square Feet | 0.00695 |
| Short Tons | Pounds | 2000 |
| Liters | US Gallons | 0.2642 |
| Pressure (@ 32°F) | | |
| Inches of Water | Pounds per Square Inch | 0.03612 |
| Pounds per Square Inch | Inches of Water | 27.686 |
| Feet of Water | Pounds per Square Inch | 0.4334 |
| Pounds per Square Inch | Feet of Water | 2.307 |
| Inches of Mercury | Pounds per Square Inch | 0.4912 |
| Pounds per Square Inch | Inches of Mercury | 2.036 |
| Atmospheres | Pounds per Square Inch | 14.696 |
| Pounds per Square Inch | Atmospheres | 0.06804 |
| Power | | |
| Horsepower | Metric Horsepower | 1.014 |
| Horsepower | Feet/Pounds per Minute | 33000.0 |
| Horsepower | Kilowatts | 0.746 |
| Kilowatts | Horsepower | 1.3404 |
| British Thermal Units | Foot/Pounds | 778.177 |
| Foot/Pounds | British Thermal Units | 0.001285 |
| British Thermal Units | Horsepower Hours | 0.0003927 |
| Horsepower Hours | British Thermal Units | 2544.1 |
| British Thermal Units | Kilowatt Hours | 0.0002928 |
| Kilowatt Hours | British Thermal Units | 3415 |
| Watt Hours | British Thermal Units | 3.415 |
| Volume-Weight Conversions (Wt. Lbs.) | | |
| 1 Cubic Foot of Water | | 62.4* |
| 1 Cubic Inch of Water | | 0.0361* |
| 1 Gallon of Water | | 8.33* |
| 1 Cubic Foot of Air | | 0.75† |
| 1 Cubic Inch of Steel | | 0.284 |
| 1 Cubic Foot of Brick | | 112-120 |
| 1 Cubic Foot of Concrete | | 120-140 |
| 1 Cubic Foot of Earth | | 70-120 |

* at 32°F.
† at 70°F – 29.92" Hg

English to Metric Conversion Factors

| From | To | Multiply By |
|--|---------------------|-------------|
| Measurements | | |
| Cubic Feet | Cubic Centimeters | 28,317.0 |
| Cubic Inches | Cubic Centimeters | 16.387 |
| Cubic Feet | Liters | 28.32 |
| Gallons | Liters | 3.7854 |
| Cubic Inches | Liters | 0.0164 |
| Gallons | Cubic Centimeters | 3785.4 |
| Barrels | Cubic Meters | 1.0551 |
| Imperial Gallons | Cubic Meters | 0.0045461 |
| US Gallons | Cubic Meters | 0.0037854 |
| Feet | Meters | 0.3048 |
| Inches | Meters | 0.0254 |
| Square Feet | Square Meters | 0.0929 |
| Square Inches | Square Centimeters | 6.452 |
| Short Ton | Cubic Meters | 907.2 |
| Liters | Cubic Meters | 0.001 |
| Pounds | Kilograms | 0.45359 |
| Pressure (@ 32°F) | | |
| Inches of Water | Newton/Sq. Meter | 249.082 |
| Pounds per Square Inch | Newton/Sq. Meter | 6894.8 |
| Feet of Water | Newton/Sq. Meter | 2988.98 |
| Pounds per Square Inch | Kilograms/Sq. Cent. | 0.07031 |
| Inches of Mercury | Newton/Sq. Meter | 3386.4 |
| Pounds per Square Inch | Dyne/Sq. Cent. | 68948.0 |
| Atmospheres | Newton/Sq. Meter | 101325.0 |
| Pascal | Newton Sq. Meter | 1.0 |
| Power | | |
| Horsepower | Watt | 745.7 |
| British Thermal Units | Joule | 1054.35 |
| Foot/Pounds | Joule | 1.3558 |
| British Thermal Units | Calorie | 252.0 |
| British Thermal Units | Watt-Second | 1054.35 |
| Watt-Second | Joule | 1.0 |
| Calorie | Joule | 4.184 |
| Watt Hours | Joule | 3600.0 |
| Kilocalorie/Minute | Watt | 69.73 |
| Ton (Refrigeration) | Watt | 3516.8 |
| BTU/Hour | Watt | 0.29288 |
| BTU/In./Hr. Ft. ² °F | Watt/Meter °K | 0.14413 |
| BTU/Hr. at 10°F TD | Kcal/Hr. at 6 °C TD | 0.252 |
| BTU/Hr. at 15°F TD | Kcal/Hr. at 8 °C TD | 0.252 |
| Volume-Weight Conversions (Wt. Kilograms) | | |
| 1 Cubic Foot of Water | | 28.3* |
| 1 Cubic Inch of Water | | 0.0164* |
| 1 Gallon of Water | | 3.788 |
| 1 Cubic Foot of Air | | 0.034† |
| 1 Cubic Inch of Steel | | 0.1288 |
| 1 Cubic Foot of Brick | | 51-54 |
| 1 Cubic Foot of Concrete | | 54-64 |
| 1 Cubic Foot of Earth | | 32-54 |

* at 32°F
† at 70°F – 29.92" Hg

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