

WESCHLER INSTRUMENTS

Conversion Factors

To convert	→	To	→	Multiply By	To convert	→	To	→	Multiply By
2.778 x 10 ⁻⁴	Ampere-hours	Coulombs		3600	1.02 x 10 ⁻⁵	Kiloponds per sq cm	Pascals		9.807 x 10 ⁴
0.1550	Amperes per sq cm	Amperes per sq inch		6.452	7.031 x 10 ⁻²	Kiloponds per sq cm	Pounds per sq inch		14.22
0.7958	Ampere-turns	Gilberts		1.257	2.930 x 10 ⁻⁴	Kilowatt-hours	Btu		3413
0.3937	Ampere-turns per cm	Ampere-turns per inch		2.540	3.766 x 10 ⁻⁷	Kilowatt-hours	Foot-pounds		2.655 x 10 ⁶
1.316 x 10 ⁻³	Atmospheres	Mm of mercury at 0°C		760	2.778 x 10 ⁻⁷	Kilowatt-hours	Joules		3.6 x 10 ⁶
2.950 x 10 ⁻²	Atmospheres	Feet of water at 4°C		33.90	1.163 x 10 ⁻³	Kilowatt-hours	Kilogram-calories		860
3.342 x 10 ⁻²	Atmospheres	Inches of mercury at 0°C		29.92	2.724 x 10 ⁻⁶	Kilowatt-hours	Kilogram-meters		3.671 x 10 ⁵
9.678 x 10 ⁻⁵	Atmospheres	Kg per sq meter		1.033 x 10 ⁴	0.001	Liters	Cubic Centimeters		1000
0.9869 x 10 ⁻⁵	Atmospheres	Newtons per sq meter		1.0133 x 10 ⁵	1000	Liters	Cubic meters		0.001
6.804 x 10 ⁻²	Atmospheres	Pounds per sq inch		14.70	1.639 x 10 ⁻²	Liters	Cubic Inches		61.02
6.894 x 10 ⁻²	Bars	Pounds per sq inch		14.5	3.785	Liters	Gallons (liq US)		0.2642
1.285 x 10 ⁻³	Btu	Foot-pounds		778.3	0.3048	Meters per min	Feet per minute		3.281
9.480 x 10 ⁻⁴	Btu	Joules		1054.8	16.67	Meters per min	Kilometers per hour		0.06
3.969	Btu	Kilogram-calories		0.2520	0.8690	Miles (nautical)	Miles (statute)		1.1508
2545	Btu	Horsepower-hours		3.929 x 10 ⁻⁴	0.6214	Miles (statute)	Kilometers		1.609
5/9 x (°F-32)	Celsius	Fahrenheit		(°C x 9/5) + 32	1.894 x 10 ⁻⁴	Miles (statute)	Feet		5280
70.31	Centimeters of water	Pounds per sq inch		1.422 x 10 ⁻²	1.136 x 10 ⁻²	Miles per hour	Feet per minute		88
1.973 x 10 ⁵	Circular mils	Square centimeters		5.067 x 10 ⁻⁶	0.6214	Miles per hour	Kilometers per hour		1.609
1.273	Circular mils	Square mils		0.7854	33.86	Millibars	Inches mercury (32°F)		0.02953
0.1337	Cubic feet	Gallons (liq US)		7.481	0.4788	Millibars	Pounds per sq foot		2.089
3.531 x 10 ⁻²	Cubic feet	Liters		28.32	0.1151	Nepers	Decibels		8.686
6.102 x 10 ⁻²	Cubic inches	Cubic centimeters		16.39	10 ⁻⁵	Newtons	Dynes		10 ⁵
1728	Cubic inches	Cubic feet		5.787 x 10 ⁻⁴	9.807	Newtons	Kilograms		0.1020
6.102 x 10 ⁴	Cubic inches	Cubic meters		1.639 x 10 ⁻⁵	0.1383	Newtons	Poundals		7.233
231	Cubic inches	Gallons (liq US)		4.329 x 10 ⁻³	4.448	Newtons	Pounds (avdp)		0.2248
2.832 x 10 ⁻²	Cubic meters	Cubic feet		35.31	32	Ounces (fluid)	Quarts		3.125 x 10 ⁻²
57.30	Degrees (angle)	Radians		1.745 x 10 ⁻²	16	Ounces (avoirdupois)	Pounds		6.25 x 10 ⁻²
4.448 x 10 ⁵	Dynes	Pounds		2.248 x 10 ⁻⁶	1.013 x 10 ⁵	Pascals	Atmospheres		9.869 x 10 ⁻⁶
1.356 x 10 ⁷	Ergs	Foot-pounds		7.376 x 10 ⁻⁸	98.07	Pascals	Centimeters of water		1.02 x 10 ⁻²
1.133	Feet of water at 4°C	Inches of mercury at 0°C		0.8826	3.386 x 10 ³	Pascals	Inches of mercury		2.953 x 10 ⁻⁴
3.281 x 10 ⁻³	Feet of water at 4°C	Kg per sq meter		304.8	9.81 x 10 ⁴	Pascals	Kilograms per sq cm		1.02 x 10 ⁻⁵
1.602 x 10 ⁻²	Feet of water at 4°C	Pounds per sq foot		62.43	9.807	Pascals	Kiloponds per sq meter		0.102
1.98 x 10 ⁶	Foot-pounds	Horsepower-hours		5.050 x 10 ⁻⁷	100	Pascals	Millibars		10 ⁻²
7.233	Foot-pounds	Kilogram-meters		0.1383	1.333 x 10 ²	Pascals	Millimeters of mercury		7.5 x 10 ⁻³
2.655 x 10 ⁶	Foot-pounds	Kilowatt-hours		3.766 x 10 ⁻⁷	6.89 x 10 ³	Pascals	Pounds per sq inch		1.451 x 10 ⁻⁴
264.2	Gallons (liq US)	Cubic meters		3.785 x 10 ⁻³	1.02 x 10 ⁻³	Ponds	Dynes		980.7
1.020 x 10 ⁻³	Grams	Dynes		980.7	453.6	Ponds	Pounds		2.205 x 10 ⁻³
28.35	Grams	Ounces (avoirdupois)		3.527 x 10 ⁻²	34.53	Ponds per sq cm	Inches of mercury		2.896 x 10 ⁻²
178.6	Grams per cm	Pounds per inch		5.600 x 10 ⁻³	1.02	Ponds per sq cm	Millibars		0.981
27.68	Grams per cu cm	Pounds per cu inch		3.613 x 10 ⁻²	1.3595	Ponds per sq cm	Millimeters of mercury		0.7356
0.4883	Grams per sq cm	Pounds per sq foot		2.0481	1.02 x 10 ⁻²	Ponds per sq cm	Pascals		98.07
2.986 x 10 ⁻⁵	Horsepower (boiler)	Btu per hour		3.347 x 10 ⁴	70.3	Ponds per sq cm	Pounds per sq inch		1.422 x 10 ⁻²
2.390 x 10 ⁻²	Horsepower (metric)	Btu per minute		41.83	62.38	Pounds of water (dist)	Cubic feet		1.603 x 10 ⁻²
	(542.5 ft-lb per sec)				8.347	Pounds of water (dist)	Gallons		0.1198
3.072 x 10 ⁻⁵	Horsepower (metric)	Foot-lb per minute		3.255 x 10 ⁴	0.05600	Pounds per inch	Kg per meter		17.86
	(542.5 ft-lb per sec)				0.6720	Pounds per foot	Kg per meter		1.488
9.485 x 10 ⁻²	Horsepower (metric)	Kg-calories per minute		10.54	3.548	Pounds per mile (statute)	Kg per kilometer		0.2818
	(542.5 ft-lb per sec)				6.243 x 10 ⁻²	Pounds per cu foot	Kg per cu meter		16.02
2.357 x 10 ⁻²	Horsepower	Btu per minute		42.41	144	Pounds per sq foot	Pounds per sq inch		6.944 x 10 ⁻³
	(550 ft-lb per sec)				1.422 x 10 ⁻³	Pounds per sq inch	Kg per sq meter		703.1
3.030 x 10 ⁻⁵	Horsepower	Foot-lb per minute		3.3 x 10 ⁴	7.233 x 10 ⁻⁵	Poundals	Dynes		1.383 x 10 ⁴
	(550 ft-lb per sec)				32.17	Poundals	Pounds (avoirdupois)		3.108 x 10 ⁻²
1.342	Horsepower	Kilowatts		0.745	4	Quarts	Gallons (liq US)		0.25
	(550 ft-lb per sec)				0.50	Quarts (liq US)	Pints		2
9.355 x 10 ⁻²	Horsepower	Kg-calories per minute		10.69	3.108 x 10 ⁻²	Slugs (mass)	Pounds (avoirdupois)		32.174
	(550 ft-lb per sec)				7.854 x 10 ⁻⁷	Sq inches	Circular mils		1.273 x 10 ⁶
0.3937	Inches	Centimeters		2.540	0.1550	Sq inches	Sq centimeters		6.452
12	Inches	Feet		8.33 x 10 ⁻²	10.76	Sq feet	Sq meters		9.290 x 10 ⁻²
0.001	Inches	Mils		1000	0.3861	Sq miles	Sq kilometers		2.590
2.036	Inches of mercury at 0°C	Lbs per sq inch		0.4912	5.067 x 10 ⁻⁴	Sq millimeters	Circular mils		1973
3.937 x 10 ⁻²	Inches of water at 4°C	Kg per sq meter		25.40	3.79 x 10 ⁻³	(Temp rise, °C) x (U.S. gal water) / minute	Watts		264
1.729	Inches of water at 4°C	Ounces per sq inch		0.5782	1.102	Tons, short (avoir 2000 lb)	Tonnes (1000 kg)		0.9072
0.1922	Inches of water at 4°C	Pounds per sq foot		5.202	0.9842	Tons, long (avoir 2240 lb)	Tonnes (1000 kg)		1.016
13.60	Inches of water at 4°C	Inches of mercury		7.355 x 10 ⁻²	10 ⁻³	Torr	Microns of mercury		1000
1.356	Joules	Foot-pounds		0.7375	17.58	Watts	Btu per minute		5.689 x 10 ⁻²
10 ⁻⁷	Joules	Ergs		107	10 ⁻⁷	Watts	Ergs per second		10 ⁷
2.343 x 10 ⁻³	Kilogram-calories	Kilogram-meters		426.9	2.260 x 10 ⁻²	Watts	Foot-lb per minute		44.26
0.2389	Kilogram-calories	Kilojoules		4.186	745.7	Watts	Horsepower (550 ft-lb per sec)		1.341 x 10 ⁻³
1016	Kilograms	Tons, long (avdp 2240lb)		9.482 x 10 ⁻⁴	735.5	Watts	Horsepower (metric) (542.5 ft-lb per sec)		1.360 x 10 ⁻³
907.2	Kilograms	Tons, short (avdp 2000lb)		1.102 x 10 ⁻³	69.77	Watts	Kg-calories per minute		1.433 x 10 ⁻²
0.4536	Kilograms	Pounds (avoirdupois)		2.205	4.186	Watt-seconds (joules)	Gram-calories (mean)		0.2389
4.882	Kg per sq meter	Pounds per sq foot		0.2048	10 ⁻⁴	Watt-seconds (joules)	Gausses		10 ⁴
0.102	Kiloponds	Newtons		9.807					
0.4536	Kiloponds	Pounds (avdp)		2.205					
1.033	Kiloponds per sq cm	Atmospheres		0.9678					
1.02	Kiloponds per sq cm	Bars		0.9807					
1.36 x 10 ⁻³	Kiloponds per sq cm	Millimeters of mercury		735.6					

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