	Multiple	by	To Get	l	hp	2544.5	Btu / hr
	inch	2.54	cm		hp	745.70	W (watt)
		ritten as: 1 inch = 2.	.54 cm ft ²		hp hp	0.74570 33,000	kW ft·lbf / min
A	acre ampere·hr (A·h)	43,560 3,600	coulomb (C)		hp	550	ft-lbf / sec
	ångström (Å)	1x10 ⁻¹⁰	m		hp·hr	2544	Btu
	atm (atmosphere)	1.01325	bar		hp·hr	1.98x10 ⁶	ft·lbf
	atm, std atm, std	76.0 760	cm of Hg mm of Hg at 0°C		hp∙hr in	2.68x10 ⁶ 2.54*	J cm
	atm, std	33.90	ft of water		in of Hg	0.0334	atm
	atm, std	29.92	in of Hg at 30°F		in of Hg	13.60	in of water
	atm, std	14.696	lbf/in ² abs (psia)		in of Hg in of water	3.387 0.0736	kPa in of Hg
	atm, std	101.325 1.013x10 ⁵	kPa		in of water	0.0361	lbf / in ² (psi)
	atm, std atm, std	1.03323	Pa kgf / cm ²		in of water	0.002458	atm
	atm, std	14.696	psia	J	J (joule)	9.4782x10 ⁻⁴	Btu
В	bar	0.9869	atm, std		J	6.2415×10^{18}	eV
	bar	1x10 ⁵	Pa		J J	0.73756	ft·lbf N·m
	Btu Btu	778.169 1055.056	ft·lbf J		J	1×10^7	ergs
	Btu	5.40395	psia·ft ³		J/s	1	W
	Btu	2.928x10 ⁻⁴	kWh	K	kg (kilogram)	2.2046226	lbm (pound mass)
	Btu	1x10 ⁻⁵	therm		kg	0.068522	slug
	Btu / hr	1.055056	kJ / hr		kg kg/m ³	1x10 ⁻³	metric ton
	Btu / hr	0.216	ft·lbf / sec		kg / m ³ kgf	0.062428 9.80665	lbm / ft ³ newton (N)
	Btu / hr	3.929x10 ⁻⁴	hp W		kip	1000	lbf
	Btu / hr Btu / lbm	0.2931 2.326*	w kJ/kg		kip	4448	N
	Btu / lbm	25,037	ft^2/s^2		kJ	1	1 kPa·m ³
	$Btu / lbm{\cdot}R$	4.1868	$kJ/kg\cdot K$		kJ kJ	1000 0.94782	N·m Btu
	Btu / lbm·°F	4.1868	kJ / kg⋅°C		kJ	737.56	ft·lbf
C	Btu / lbmol·R	4.1868 3.968x10 ⁻³	kJ / kmol·K Btu		kJ / kg	1000	m^2/s^2
C	cal (g-calorie) cal	1.560x10 ⁻⁶	hp·hr		kJ / kg	0.42992	Btu / lbm
	cal (IT calorie)	4.1868	J		kJ / kg·K kJ / kg·°C	0.23885	Btu / lbm·°R kJ / kg·K
	Calorie (Cal)	4.1868	kJ		kJ / kg⋅°C	1	J/g.°C
	cal / sec	4.1868	W (watt) ft		kJ / kg·°C	0.23885	Btu / lbm·°F
	cm (centimeter) cm	0.03281 0.3937	in		kJ / kg⋅°C km	0.23885	Btu / lbm·R ft
	cP (centipoise)	0.001	Pa·sec		km	3280.8 0.6214	mi
	cSt (centistokes)	1x10 ⁻⁶	m ² / sec		km/hr	0.6214	mi / hr (mph)
D	degree	π/180	radian		km/hr km/hr	0.2778	m/s ft/s
E	dyne	10 1.602x10 ⁻¹⁹	μN (micronewton) J		kPa (kilopascal)	0.9113 9.8693x10 ⁻³	atm
Ŀ	eV (electronvolt)	1x10 ⁻⁷	J		kPa	0.14504	lbf / in ² (psi)
F	erg ft (feet)	0.3048*	m		kW	3412.14	Btu / hr
	ft	30.48	cm		kW	0.9478	Btu / sec
	ft ²	2.2957x10 ⁻⁵	acre		kW kW	737.56 1.341	lbf·ft / sec hp
	ft ²	144	in ²		kWh (kW-hour)	3412.14	Btu
	ft ²	0.09290304*	m ²		kWh	1.341	hp∙hr
	ft ³	7.481	gal (U.S.)	т	kWh L (liter)	3600	kJ ft ³
	ft ³ ft ³	0.02832	m ³	ь	L (liter)	0.03531 61.02	in ³
	ft ³ / lbm	28.317 0.062428	L m^3 / kg		L	0.2642	gal (U.S.)
	ft-lbf	1.285x10 ⁻³	Btu		L	0.001	m^3
	ft·lbf	1.35582	J		L/s	2.119	ft3 / min (cfm)
	ft·lbf	3.766x10 ⁻⁷	kWh		L/s	15.85	gal / min (gpm)
	ft·lbf	1.35582	N·m		lbf (pound force) lbf	32.174 4.44822	$lbm \cdot ft / s^2$ N
	ft·lbf ft·lbf / sec	0.324 1.818x10 ⁻³	calorie (g-cal) hp		lbf	32.17	poundals
	ft / s^2	0.3048*	m / s^2		lbf / in ² (psi)	0.06805	atm
G	U.S. gallon (gal)	0.13368	ft ³		lbf / in^2	2.307	ft water
	gal	3.7854	L		lbf / in ²	2.036	in Hg
	gal	3.7854x10 ⁻³	m^3		lbf / in ²	6894.757	Pa
	gal	231	in ³		lbm lbm	0.45359237* 0.031081	kg slug
	gal (U.K.)	1.201	gal (U.S.) in ³		lbm / in ³	1728	lbm / ft ³
	gal (U.K.) gal / min (gpm)	277.4 0.002228	ft ³ / sec		lbm / ft ³	0.016018	g / cm ³
	gamma (γ,Γ)	1x10 ⁻⁹	tesla (T)		lbm / ft ³	16.018	kg/m^3
	gauss	1x10 ⁻⁴	T	M	m (meter)	3.28083	ft
	gram (g)	2.205x10 ⁻³	lbm		m m	1.0926 39.370	yard in
	g/cm ³	1	1 kg / L		m ²	1550	in ²
	g / cm ³	1000	kg/E		m ²	10.764	ft ²
	g/cm ³	62.428	lbm / ft ³		m ³	1x10 ⁶	cm ³ (cc)
	g / cm^3	1.940	$slug / ft^3$		m^3	35.315	ft ³
	g / cm^3	0.036127	lbm / in^3		m^3	264.17	gal (U.S.)
H	hectare	1x10 ⁴	m^2		m^3	1000	L
	hectare hp (horsepower)	2.47104 42.41	acres Btu / min		m^3/kg	16.02	ft ³ / lbm
	hp	0.7068	Btu / sec		m / s	196.8	ft / min

	m / s	3.60	km / h			
	m/s	3.2808	ft / s			
	m/s	2.237	mi / h (mph)			
	m/s^2	3.2808	ft/s ²			
	metric ton	1000	kg			
	mil mi (mile)	0.001 5280	in ft			
	mi (mile)	1.6093	II km			
	mi ² (square mile) mph (mile/hour)	640 1.6093	acres km / hr			
	mph (mne/nour)	88.0	ft / min (fpm)			
	mph	1.467	ft/s			
	mph	0.4470	m/s			
	micron	1x10 ⁻⁶	m			
	mm of Hg	1.316x10 ⁻³	atm			
	mm of Hg	0.1333	kPa			
	mm of water	9.678x10 ⁻⁵	atm			
		1	_			
V	N (newton)	-	kg·m / s ²			
	N	1x10 ⁵	dyne			
	μN (microN)	0.1	dyne			
	N N·m	0.22481 0.7376	lbf ft·lbf			
	N·m N·m	0.7376	II·IDI J			
,		1	N/m^2			
	Pa (pascal)	-				
	Pa	1.4504x10 ⁻⁴	lbf / in ² (psia)			
	Pa	0.020886	lbf / ft ²			
	Pa	9.869x10 ⁻⁶	atm			
	Pa·s	10	poise			
	psi (pounds per square inch) see lbf / in ²					
₹.	radian	180/π	degree			
3	short ton	2000	lbm			
	short ton	907.1847 32.174	kg lbm			
	slug slug	14.5939	kg			
	slug / ft ³	0.5154	g / cm ³			
	· ·	1x10 ⁻⁴	m ² /s			
_	stokes					
Γ	therm	1x10 ⁵	Btu			
X/	ton of refrigeration W (watt)	200 3.4121	Btu / min Btu / hr			
•	W (watt)	0.7376	ft·lbf / sec			
	W	1.341x10 ⁻³	hp			
	W	1.541710	J/s			
	W / cm ²	1x10 ⁴	W/m^2			
	W / cm ³	1x10 ⁶	W/m^3			
	W/m^2	0.3171	Btu / (h·ft ²)			
	W / m ³ W / m⋅°C	0.09665 1	Btu / (h·ft ³) W / m·K			
	W / m.°C	0.57782	Btu / (h·ft·°F)			
	$W / m^2 C$ $W / (m^2 \cdot {}^{\circ}C)$	1	$W/(m^2 \cdot K)$			
	$W / (m \cdot C)$ $W / (m^2 \cdot {}^{\circ}C)$	=	Btu / ($h \cdot ft^2 \cdot {}^{\circ}F$)			
		0.17612				
	weber / m^2	10,000	gauss			
	* The exact convers	sion between metric a	and English.			

^{*} The exact conversion between metric and English.

TEMPERATURE

 $T(K) = T(^{\circ}C) + 273.15$ $T(R) = T(^{\circ}F) + 459.67$ $T(^{\circ}F) = 1.8 T(^{\circ}C) + 32$

SOME IMPORTANT CONSTANTS

SI PREFIXES

yocto (10^{-24}) , zepto (10^{-21}) , atto (10^{-18}) , femto (10^{-15}) , pico (10^{-12}) , nano (10^{-9}) , micro (10^{-6}) , milli (10^{-3}) , centi (10^{-2}) , deci (10^{-1}) , deka (10^{1}) , hecto (10^{2}) , kilo (10^{3}) , mega (10^{6}) , giga (10^{9}) , tera (10^{12}) , peta (10^{15}) , exa (10^{18}) , zetta (10^{21}) , yotta (10^{24})