

Raw Unit List

Raw Unit Category	Raw Unit	Formula
Acceleration	meters per second squared	m/s^2
Angular Acceleration	radians per second squared	rad/s^2
Angular Momentum	joule second	Js
Angular Velocity	radians per second	rad/s
Angular Velocity	revolutions per minute	rpm
Apparent Energy	volt ampere hour	VAh
Apparent Energy	kilovolt ampere hour	kVAh
Apparent Energy	megavolt ampere hour	MVAh
Apparent Power	volt ampere	VA
Apparent Power	kilovolt ampere	kVA
Apparent Power	megavolt ampere	mVA
Area	square meter	m^2
Area	square millimeter	mm^2
Area	square centimeter	cm^2
Area	square kilometer	km^2
Area	square inch	in^2
Area	square foot	ft^2
Area	square yard	yd^2
Area	square mile	$mile^2$
Area	acre	$acre^2$
Capacitance	farad	F
Cooling Efficiency	coefficient of performance	COP
Cooling Efficiency	kilowatt per ton	kW/ton
Cooling Efficiency	energy efficiency ratio	Btu/Wh
Density	kilograms per cubic meter	kg/m^3
Density	micrograms per cubic meter	$\mu g/m^3$
Dimensionless	pixel	px
Dimensionless	decibel	db
Dimensionless	power factor	pf
Dimensionless	pH	
Dimensionless	percent relative humidity	%RH
Dimensionless	grams of water per kilogram dry air	$gH_2O/kgAir$
Dimensionless	volts per degree kelvin	V/K
Dimensionless	degree days celsius	$^{\circ}daysC$
Dimensionless	degree days fahrenheit	$^{\circ}daysF$
Dimensionless	percent obscuration per foot	%obsc/ft
Dimensionless	percent obscuration per meter	%obsc/m
Dimensionless	psi per degree fahrenheit	psi/ $^{\circ}F$
Dimensionless	square meters per newton	m^2/N
Dimensionless	watts per square meter degree kelvin	W/m^2K
Dimensionless	db milliVolt	dBmV
Dimensionless	db microVolt	dB μ V
Dimensionless	parts per unit	ppu
Dimensionless	parts per million	ppm
Dimensionless	parts per billion	ppb
Dimensionless	grams per kilogram	g/kg

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Dimensionless	radian	rad
Dimensionless	degrees angular	deg
Dimensionless	degrees phase	degPh
Dimensionless	steradian	sr
Dimensionless	nephelometric turbidity units	ntu
Dimensionless	formazin nephelometric unit	fnu
Dimensionless	power usage effectiveness	PUE
Dimensionless	data center infrastructure efficiency	DCIE
Dimensionless	percentage	%
Dimensionless	unitless	
Electric Charge	coulomb	C
Electric Charge	ampere hour	Ah
Electric Conductance	siemens	S
Electric Current	ampere	A
Electric Current	milliampere	mA
Electric Current Density	amperes per square meter	A/m ²
Electric Field Strength	volts per meter	V/m
Electric Potential	Volt	V
Electric Potential	milliVolt	mV
Electric Potential	kiloVolt	kV
Electric Potential	megaVolt	MV
Electric Resistance	ohm	Ω
Electric Resistance	kilohm	kΩ
Electric Resistance	megohm	MΩ
Electric Resistance	milliohm	mΩ
Electrical Conductivity	siemens per meter	S/m
Electrical Resistivity	ohm meter	Ωm
Electromagnetic Moment	ampere square meter	Am ²
Energy	kilobtu	kBTU
Energy	megabtu	MBTU
Energy	joule	J
Energy	kilojoule	kJ
Energy	watt hour	Wh
Energy	kilowatt hour	kWh
Energy	megawatt hour	MWh
Energy	btu	BTU
Energy	horsepower hour	hph
Energy	calorie	cal
Energy	therm	therm
Energy	tons refrigeration hour	tonrefh
Energy	megajoule	MJ
Energy	gigajoule	GJ
Energy	newton meter	Nm
Energy	cubic meters natural gas	m ³ _gas
Energy	cubic feet natural gas	ft ³ _gas
Energy	hundred cubic feet natural gas	

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Energy	thousand cubic feet natural gas	
Energy	million cubic feet natural gas	
Energy by Area	joules per square meter	J/m ²
Energy by Area	watt hours per square meter	Wh/m ²
Energy by Area	watt hours per square foot	Wh/ft ²
Energy by Area	kilowatt hours per square meter	kWh/m ²
Energy by Area	kilowatt hours per square foot	kWh/ft ²
Energy by Area	megawatt hours per square meter	MWh/m ²
Energy by Area	megawatt hours per square foot	MWh/ft ²
Energy by Area	megajoules per square meter	MJ/m ²
Energy by Area	megajoules per square foot	MJ/ft ²
Energy by Area	kilobtu per square foot	kBTU/ft ²
Energy by Area	megabtu per square foot	MBTU/ft ²
Enthalpy	joules per gram	J/g
Enthalpy	joules per kilogram	J/kg
Enthalpy	joules per kilogram dry air	J/kg_dry
Enthalpy	btu per pound	BTU/lb
Enthalpy	btus per pound dry air	btu/lb_dry
Enthalpy	kilojoules per kilogram	kJ/kg
Enthalpy	kilojoules per kilogram dry air	kJ/kg_dry
Enthalpy	megajoules per kilogram dry air	MJ/kg_dry
Enthalpy	calorie per gram	cal/g
Entropy	joules per degree kelvin	J/°K
Entropy	kilojoules per degree kelvin	kJ/°K
Entropy	megajoules per degree kelvin	MJ/°K
Force	newton	N
Force	pound force	lbf
Frequency	hertz	Hz
Frequency	kilohertz	kHz
Frequency	cycles per hour	cph
Frequency	cycles per minute	cpm
Frequency	megahertz	MHz
Frequency	per minute	/min
Frequency	per second	/s
Frequency	per hour	/h
Frequency	percent per second	%/s
Frequency	air changes per hour	ACH
Grammage	kilograms per square meter	kg/m ²
Grammage	grams per square meter	g/m ²
Heating Rate	degrees kelvin per second	K/s
Heating Rate	degrees celsius per hour	°C/h
Heating Rate	degrees celsius per minute	°C/min
Heating Rate	degrees fahrenheit per hour	°F/h
Heating Rate	degrees fahrenheit per minute	°F/min
Heating Rate	degrees kelvin per hour	K/h
Heating Rate	degrees kelvin per minute	K/min

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Illuminance	lux	lx
Illuminance	footcandle	fc
Illuminance	phot	ph
Inductance	henry	H
Irradiance	watts per square meter irradiance	W/m ² _irr
Irradiance	watts per square foot irradiance	W/ft ² _irr
Length	meter	m
Length	micrometer	μm
Length	millimeter	mm
Length	centimeter	cm
Length	kilometer	km
Length	inch	in
Length	foot	ft
Length	yard	yd
Length	mile	mile ²
Luminance	candelas per square meter	cd/m ²
Luminance	candels per square foot	cd/ft ²
Luminous Flux	lumen	lm
Luminous Intensity	candela	cd
Magnetic Field Strength	amperes per meter	A/m
Magnetic Flux	weber	Wb
Magnetic Flux Density	tesla	T
Mass	kilogram	kg
Mass	milligram	mg
Mass	gram	g
Mass	ounce	oz
Mass	pound	lb
Mass	kilopound	klb
Mass	metric ton	ton
Mass	short ton	t
Mass Flow	kilograms per second	kg/s
Mass Flow	kilograms per hour	kg/h
Mass Flow	pounds per minute	lb/min
Mass Flow	pounds per hour	lb/h
Mass Flow	pounds per second	lb/s
Mass Flow	kilopounds per hour	klb/h
Mass Flow	grams per second	g/s
Mass Flow	grams per minute	g/min
Mass Flow	metric tons per hour	ton/h
Mass Flow	kilograms per minute	kg/min
Momentum	newton second	Ns
Power	watt	W
Power	milliwatt	mW
Power	kilowatt	kW
Power	megawatt	MW
Power	gigawatt	GW

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Power	btus per hour	BTU/h
Power	therms per hour	therm/h
Power	horsepower	hp
Power	foot pounds per second	ftlbs/sec
Power	tons refrigeration	tonref
Power	kilobtus per hour	kBTU/h
Power	megabtus per hour	MBTU/h
Power	joules per hour	J/h
Power	kilojoules per hour	kJ/h
Power	megajoules per hour	MJ/h
Power by Area	watts per square meter	W/m ²
Power by Area	watts per square foot	W/ft ²
Power by Area	kilowatts per square meter	kW/m ²
Power by Area	kilowatts per square foot	kW/ft ²
Power by Area	kilobtus per hour per square foot	kBTU/h/ft ²
Power by Volumetric Flow	watts per cubic meters per second	W/m ³ /s
Power by Volumetric Flow	watts per cubic feet per minute	W/cfm
Power by Volumetric Flow	kilowatts per kilocubic feet per minute	kW/kcfm
Power by Volumetric Flow	kilowatts per gallons per minute	kW/gal/min
Pressure	pascal	Pa
Pressure	kilopascal	kPa
Pressure	bar	bar
Pressure	atmosphere	atm
Pressure	pounds per square inch	psi
Pressure	centimeters of water	cmH ₂ O
Pressure	inches of water	in/wc
Pressure	millimeters of mercury	mmHg
Pressure	centimeters of mercury	cmHg
Pressure	inches of mercury	inHg
Pressure	hectopascal	hPa
Pressure	millibar	mbar
Reactive Energy	volt ampere reactive hour	VARh
Reactive Energy	kilovolt ampere reactive hour	kVARh
Reactive Energy	megavolt ampere reactive hour	MVARh
Reactive Power	volt ampere reactive	VAR
Reactive Power	kilovolt ampere reactive	kVAR
Reactive Power	megavolt ampere reactive	MVAR
Specific Entropy	joules per kilogram degree kelvin	J/kg°K
Surface Tension	newtons per meter	N/m
Temperature	celsius	°C
Temperature	kelvin	K
Temperature	fahrenheit	°F
Temperature Differential	fahrenheit degrees	Δ°F
Temperature Differential	celsius degrees	Δ°C
Temperature Differential	kelvin degrees	ΔK
Thermal Conductivity	watts per meter degree kelvin	W/m°K

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Raw Unit Category	Raw Unit	Formula
Time	nanosecond	ns
Time	microsecond	μs
Time	millisecond	ms
Time	hundredths second	cs
Time	tenths second	ds
Time	second	sec
Time	minute	min
Time	day	day
Time	week	wk
Time	julian month	mo
Time	year	yr
Time	hour	hr
Time	total hours	hrs
Velocity	meters per second	m/s
Velocity	kilometers per second	km/s
Velocity	kilometers per hour	km/h
Velocity	miles per hour	mph
Velocity	feet per second	ft/s
Velocity	feet per minute	ft/min
Velocity	millimeters per second	mm/s
Velocity	millimeters per minute	mm/min
Velocity	meters per minute	m/min
Velocity	meters per hour	m/h
Velocity	knot	knot
Volume	cubic meter	m ³
Volume	cubic millimeter	mm ³
Volume	cubic centimeter	cm ³
Volume	milliliter	mL
Volume	hectoliter	hL
Volume	liter	L
Volume	kiloliter	kL
Volume	cubic inch	in ³
Volume	cubic foot	ft ³
Volume	cubic yard	yd ³
Volume	gallon	gal
Volume	kilogallon	kgal
Volume	quart	qt
Volume	pint	pt
Volume	fluid ounce	fl_oz
Volume	imperial gallon	galUK
Volume	hecto cubic foot	hft ³
Volumetric Flow	cubic meters per second	m ³ /s
Volumetric Flow	milliliters per second	mL/s
Volumetric Flow	hectoliters per second	hL/s
Volumetric Flow	liters per second	L/s
Volumetric Flow	cubic feet per second	cfs

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Volumetric Flow	cubic feet per minute	cfm
Volumetric Flow	cubic feet per hour	cfh
Volumetric Flow	kilocubic feet per minute	kcfm
Volumetric Flow	imperial gallons per minute	galUK/min
Volumetric Flow	liters per minute	L/min
Volumetric Flow	liters per hour	L/h
Volumetric Flow	cubic meters per minute	m ³ /min
Volumetric Flow	cubic meters per hour	m ³ /h
Volumetric Flow	Gallons per minute	gal/min