

COMMON CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
Atmospheres	cms of mercury	76.0
atmospheres	ft. of water (at 4°C)	33.90
atmospheres	in. of mercury (at 0°C)	29.92
atmospheres	kgs/sq cm	1.0333
atmospheres	kgs/sq meter	10,332
atmospheres	pounds/sq in.	14.70
Bar	newtons/sq m	10 ⁵
bar	atmospheres	0.9869
bar	at (tech.)	1.0197
bar	psi	14.504
Barrels-Oil	gals-oil	42
BT Units	kg-calories	1.2520
BTUs	ft-lbs	777.9
BTUs	hp-hrs	3.927x10 ⁻⁴
BTUs	kgs-meters	107.5
BTUs	kw-hrs	2.928x10 ⁻⁴
BTU/Min	ft-lbs/sec	12.96
BTU/min	hp	0.02356
BTU/min	kw	0.01757
BTU/min	watts	17.57
Centimeters	inches	0.3937
cm	meters	0.01
cm	mm	10
Cms Mercury	atm	0.01316
cms mercury	ft water	0.4461
cms mercury	kgs/sq meter	136.0
cms mercury	lbs/sq ft	27.85
cms mercury	lbs/sq in	0.1934
Cms/Second	ft/min	1.969
cms/sec	ft/sec	0.03281
cms/sec	km/hr	0.036
cms/sec	meters/min	0.6
cms/sec	miles/hr	0.02237
cms/sec	miles/min	3.728x10 ⁻⁴
Cms/Sec/Sec	ft/sec/sec	0.03281
Cubic Cms	cu ft	3.531x10 ⁻⁵
cu cms	cu in	6.102x10 ⁻²
cu cms	cu meters	10 ⁻⁶
cu cms	cu yds	1.308x10 ⁻⁶
cu cms	gals	2.642x10 ⁻⁴
cu cms	liters	10 ⁻³
cu cms	pints (liq)	2.113x10 ⁻³
cu cms	quarts (liq)	1.057x10 ⁻³
Cubic Feet	cubic cms	2.832x10 ⁴
cu ft	cu inches	1728
cu ft	cu meters	0.02832
cu ft	cu yds	0.03704
cu ft	gals	7.48052
cu ft	liters	28.32
cu ft	pints (liq)	59.84

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cu ft	quarts (liq)	29.92
Cu Ft/Min	cu cms/sec	472.0
cu ft/min	gals/sec	0.1247
cu ft/min	liters/sec	0.4720
cu ft/min	lbs water/min	62.43
cu ft/min	gals/min	448.831
Cu Inches	cc	16.39
cu ins	cu ft	5.787x10 ⁻⁴
cu ins	cu meters	1.639x10 ⁻⁵
cu ins	cu yds	2.143x10 ⁻⁵
cu ins	gals	4.329x10 ⁻³
cu ins	liters	1.639x10 ⁻²
cu ins	pints (liq)	0.03463
cu ins	quarts (liq)	0.01732
Cu Meters	cc	10 ⁴
cu M	cu ft	35.31
cu M	cu ins	61,023
cu M	cu yds	1.308
cu M	gals	264.2
cu M	liters	10 ³
cu M	pints (liq)	2113
cu M	quarts (liq)	1057
Cu Yards	cu cms	7.646x10 ⁵
cu yds	cu ft	27
cu yds	cu ins	46.656
cu yds	cu meters	0.7646
cu yds	gals	202.0
Decimeters	meters	0.1
Degs (Angle)	minutes	60
Degs (angle)	radians	0.01745
Degs (angle)	secs	3600
Degrees/Sec	radians/sec	0.01745
degs/sec	revs/min	0.1667
degs/sec	revs/sec	0.002778
Feet	cms	30.48
ft	ins	12
ft	meters	0.3048
ft	yds	1/3
Ft of Water	atms	0.02950
ft of w	ins mercury	0.8826
ft of w	kgs/sq cm	0.03048
ft of w	lbs/sq ft	62.32
ft of w	lbs/sq in	0.4328
Feet/Min	cms/sec	0.5080
ft/min	ft/sec	0.01667
ft/min	kms/hr	0.01829
ft/min	meters/min	0.3048
ft/min	miles/hr	0.01136
Ft/Sec/Sec	cms/sec/sec	30.48
ft/sec/sec	Meters/sec/sec	0.3048

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Ft-Pounds	BTUs	1.286×10^{-3}
ft lbs	hp-hrs	5.050×10^{-7}
ft lbs	kg-calories	3.241×10^{-4}
ft lbs	kg-meters	0.1383
ft lbs	kw-hrs	3.766×10^{-7}
Ft-lbs/Min	BTUs/min	1.286×10^{-3}
ft-lbs/min	ft-lbs/sec	0.01667
ft-lbs/min	hp	3.03×10^{-5}
ft-lbs/min	kg-calories/min	3.241×10^{-4}
ft-lbs/min	kws	2.260×10^{-5}
Ft-Lbs/Sec	BTUs/min	7.717×10^{-2}
ft-lbs/sec	hp	1.818×10^{-3}
ft-lbs/sec	kg-calories/min	1.945×10^{-2}
ft-lbs/sec	kws	1.356×10^{-3}
Gallons	ccs	3785
gals	cu ft	0.1337
gals	cu ins	231
gals	cu meters	3.785×10^{-3}
gals	liters	3.785
gals	pints (liq)	8
gals	quarts (liq)	4
Gallons, Imp	US gals	1.20095
gallons, US	imp gals	0.83267
Gals Water	lbs water	8.3304
Gallons/Min	cu ft/sec	2.228×10^{-3}
gals/min	liters/sec	0.06308
gals/min	cu ft/hr	8.0208
Horse-Power	BTUs/min	42.44
hp	ft-lbs/min	33,000
hp	ft-lbs/sec	550
hp	hp (metric)	1.014
hp	kg-calories/min	10.70
hp	kws	0.7457
hp	watts	745.7
Hp-Hours	BTUs	2547
hp-hrs	ft-lbs	1.98×10^6
hp-hrs	kg-calories	641.7
hp-hrs	kg-meters	2.737×10^5
hp-hrs	kw-hrs	0.7457
Inches	cms	2.540
Inches	mms	25.4
Ins Mercury	atms	0.03342
ins mercury	ft water	1.133
ins mercury	kgs/sq cm	0.03453
ins mercury	lbs/sq ft	70.73
ins mercury	lbs/sq in	0.4912
Ins of Water	atms	0.002458
ins of w	ins mercury	0.07355
ins of w	kgs/sq cm	0.002540
ins of w	lbs/sq ft	5.202

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ins of w	lbs/sq in	0.03613
Kilograms	dynes	980,665
kgs	lbs	2.205
kgs	tons (short)	1.102×10^{-3}
kgs	grams	1000
Kgs/Sq Cm	atms	0.9678
kgs/sq cm	ft water	32.81
kgs/sq cm	ins mercury	28.96
kgs/sq cm	lbs/sq ft	2048
kgs/sq cm	lbs/sq in	14.22
Kilometers	cms	10^5
kms	ft	3281
kms	meters	10^3
kms	miles	0.6214
Kms/Hr	cms/sec	27.78
kms/hr	ft/min	54.68
kms/hr	ft/sec	0.9113
kms/hr	meters/min	16.67
kms/hr	miles/hr	0.6214
Kms/Hr/Sec	cms/sec/sec	27.78
kms/hr/sec	ft/sec/sec	0.9113
kms/hr/sec	Meters/sec/sec	0.2778
Kilowatts	BTUs/min	56.92
kws	ft-lbs/min	4.425×10^4
kws	ft-lbs/sec	737.6
kws	hp	1.341
kws	kg-calories/min	14.34
kws	watts	10^3
Kilowatt-Hrs	BTUs	3415
kw-hrs	ft-lbs	2.655×10^6
kw-hrs	hp-hours	1.341
kw-hrs	kg-calories	860.5
kw-hrs	kg-meters	3.67×10^5
Liters	ccs	10^3
liters	cu ft	0.03531
liters	cu ins	61.02
liters	cu meters	10^{-2}
liters	gals	0.2642
liters	quarts (liq)	1.057
Liters/Min	gals/sec	4.403×10^{-3}
Meters	cms	100
meters	ft	3.281
meters	ins	39.37
meters	kms	10^{-3}
meters	mms	10^3
Meters/Min	cms/sec	1.667
meters/min	ft/min	3.281
meters/min	ft/sec	0.05468
meters/min	kms/hr	0.06
meters/min	miles/hr	0.03728

COMMON CONVERSION FACTORS

TO CONVERT	INTO	MULTIPLY BY
Meters/Sec	ft/min	196.8
meters/sec	ft/sec	3.281
meters/sec	kms/hr	3.6
meters/sec	kms/min	0.06
meters/sec	miles/hr	2.237
meters/sec	miles/min	0.03728
Microns	meters	10^{-6}
microns	in	39×10^{-6}
Miles/Hr	cms/sec	44.70
miles/hr	ft/min	88
miles/hr	ft/sec	1.467
miles/hr	kms/hr	1.609
miles/hr	meters/min	26.82
Millimeters	cms	0.1
mms	ins	0.03937
Minutes (Angle)	radians	2.909×10^{-4}
Newton	kgs	0.1020
Ounces	lbs	0.0625
ozs	gram	28.349527
Ozs (Fluid)	cu in	1.805
ozs (fluid)	liters	0.02957
Pounds	ozs	16
lbs	kgs	0.4536
lbs	tons (short)	0.0005
lbs	newtons (N)	4.44
lbs	gram	453.5924
Pounds/Inch	newton-meters	0.1113
Pounds/Foot	newton-meters	1.356
Lbs of Water	cu ft	0.01605

TO CONVERT	INTO	MULTIPLY BY
lbs of water	cu in	27.73
lbs of water	gals	0.1204
Lbs of Water/Min	cu ft/sec	2.679×10^{-4}
Pounds/Cu Ft	lbs/cu in	5.787×10^{-4}
Pounds/Cu In	lbs/cu ft	1728
Pounds/Sq In	atms	0.06804
lbs/sq in	ft water	2.311
lbs/sq in	in mercury	2.036
lbs/sq in	kgs/sq cm	0.07031
Radians	degrees	57.29578
Tons (Long)	kgs	1016
tons (long)	lbs	2240
tons (long)	tons (short)	1.12000
Tons (Short)	kgs	2000
tons (short)	kps	907.18486
tons (short)	tons (long)	0.89287
tons (short)	tons (metric)	0.90718
Watts	BTUs/min	0.05692
watts	ft-lbs/min	44.26
watts	ft-lbs/sec	0.7376
watts	hp	1.341×10^{-3}
watts	kg-calories/min	0.01434
watts	kws	10^{-3}
Watt/Hours	BTUs	3.415
watt-hrs	ft-lbs	2655
watt-hrs	hp-hrs	1.341×10^{-3}
watt-hrs	kg-calories	0.8605
watt-hrs	kg-meters	367.1
watt-hrs	kw-hrs	10^{-3}