

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	0.2520
BTU's	ft-lbs	777.9
BTU's	hp-hrs	3.927 x 10 ⁻⁴
BTU's	kgs-meters	107.5
BTU's	kw-hrs	2.928 x 10 ⁻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	3.728 x 10 ⁻⁴
Cms/Sec/Sec	ft/sec/sec	0.03281
Cubic Cms	cu ft	3.531 x 10 ⁻⁵
Cu cms	cu in	6.102 x 10 ⁻²
cu cms	cu meters	10 ⁻⁶
cu cms	cu yds	1.308 x 10 ⁻⁶
cu cms	gals	2.642 x 10 ⁻⁴
cu cms	liters	10 ⁻³
cu cms	pints (liq)	2.113 x 10 ⁻³
cu cms	quarts (liq)	1.057 x 10 ⁻³
Cubic Feet	cubic cms	2.832 x 10 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
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/sec	gals/min	448.831
Cu Inches	cc	16.39
cu ins	cu ft	5.787 x 10 ⁻⁴
cu ins	cu meters	1.639 x 10 ⁻⁵
cu ins	cu yds	2.143 x 10 ⁻⁵
cu ins	gals	4.329 x 10 ⁻³
cu ins	liters	1.639 x 10 ⁻²
cu ins	pints (liq)	0.03463
cu ins	quarts (liq)	0.01732
Cu Meters	cc	10 ⁴

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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	7.646 x 10 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
Deg (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
Ft-Pounds	BTU s	1.286 x 10 ³
ft lbs	hp-hrs	5.050 x 10 ⁻⁷
ft lbs	kg-calories	3.241 x 10 ⁻⁴
ft lbs	kg-meters	0.1383
ft lbs	kw-hrs	3.766 x 10 ⁻⁷
Ft-lbs/Min	BTUs/min	1.286 x 10 ³
ft-lbs/min	ft-lbs/sec	0.01667
ft-lbs/min	hp	3.030 x 10 ⁻⁵
ft-lbs/min	kg-calories/min	3.241 x 10 ⁻⁴
ft-lbs/min	kws	2.260 x 10 ⁻⁵
Ft-Lbs/Sec	BTUs/min	7.717 x 10 ²
ft-lbs/sec	hp	1.818 x 10 ³
ft-lbs/sec	kg-calories/min	1.945 x 10 ²
ft-lbs/sec	kws	1.356 x 10 ³
Gallons	ccs	3785
gals	cu ft	0.1337
gals	cu ins	231
gals	cu meters	3.785 x 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 x 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

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hp	hp (metric)	1.014	meters	mms	10 ³
hp	kg-calories/min	10.70	meters/min	cms/sec	1.667
hp	kws	0.7457	meters/min	ft/min	3.281
hp	watts	745.7	meters/min	ft/sec	0.05468
Hp-Hours	BTUs	2547	meters/min	kms/hr	0.06
hp-hrs	ft-lbs	1.98 x 10 ³	meters/min	miles/hr	0.03728
hp-hrs	kg-calories	641.7	Meters/Sec	ft/min	196.8
hp-hrs	kg-meters	2.737x10 ³	meters/sec	ft/sec	3.281
hp-hrs	kw-hrs	0.7457	meters/sec	kms/hr	3.6
Inches	cms	2.540	meters/sec	kms/min	0.06
Inches	mms	25.4	meters/sec	miles/hr	2.237
Ins Mercury	atms	0.03342	meters/sec	miles/min	0.03728
ins mercury	ft water	1.133	Microns	meters	10 ⁶
ins mercury	kgs/sq cm	0.03453	microns	in	39 x 10 ⁶
ins mercury	lbs/sq ft	70.73	Miles/Hr	cms/sec	44.70
ins mercury	lbs/sq in	0.4912	miles/hr	ft/min	88
Ins of Water	atms	0.002458	miles/hr	ft/sec	1.467
ins of w	ins mercury	0.07355	miles/hr	kms/hr	1.609
ins of w	kgs/sq cm	0.002540	miles/hr	meters/min	26.82
ins of w	lbs/sq ft	5.202	Millimeters	cms	0.1
ins of w	lbs/sq in	0.03613	mms	ins	0.03937
Kilograms	dynes	980,665	Minutes (Angle)	radians	2.909 x 10 ⁻⁴
kgs	lbs	2.205	Newton	kgs	0.1020
kgs	tons (short)	1.102 x 10 ⁻³	Ounces	lbs	0.0625
kgs	grams	1000	ozs.	gram	28.349527
Kgs/Sq Cm	atms	0.9678	Ozs (Fluid)	cu in	1.805
kgs/sq cm	ft water	32.81	ozs. (fluid)	liters	0.02957
kgs/sq cm	ins mercury	28.96	Pounds	ozs.	16
kgs/sq cm	lbs/sq ft	2048	lbs.	kgs	0.4536
kgs/sq cm	lbs/sq in	14.22	lbs.	tons (short)	0.0005
Kilometers	cms	10 ⁵	lbs.	newtons (N)	4.44
kms	ft	3281	lbs.	gram	453.5924
kms	meters	10 ³	Pounds/Inch	newton-meters	0.113
kms	miles	0.6214	Pounds/Foot	newton-meters	1.356
Kms/Hr	cms/sec	27.78	Lbs of Water	cu ft	0.01605
kms/hr	ft/min	54.68	lbs of water	cu in	27.73
kms/hr	ft/sec	0.9113	lbs of water	gals	0.1204
kms/hr	meters/min	16.67	Lbs of Water/Min	cu ft/sec	2.679 x 10 ⁻⁴
kms/hr	miles/hr	0.6214	Pounds/Cu Ft	lbs/cu in	5.787 x 10 ⁻⁴
Kms/Hr/Sec	cms/sec/sec	27.78	Pounds/Cu In	lbs/cu ft	1728
kms/hr/sec	ft/sec/sec	0.9113	Pounds/Sq In	atms	0.06804
kms/hr/sec	Meters/sec/sec	0.2778	lbs/sq in	ft water	2.311
Kilowatts	BTUs/min	56.92	lbs/sq in	in mercury	2.036
kws	ft-lbs/min	4.425 x 10 ⁴	lbs/sq in	kgs/sq cm	0.07031
kws	ft-lbs/sec	737.6	Radians	degrees	57.29578
kws	hp	1.341	Tons (Long)	kgs	1016
kws	kg-calories/min	14.34	tons (long)	lbs	2240
kws	watts	10 ³	tons (long)	tons (short)	1.12000
Kilowatt-Hrs	BTUs	3415	Tons (Short)	kgs	2000
kw-hrs	ft-lbs	2.655 x 10 ⁶	tons (short)	kps	907.18486
kw-hrs	hp-hours	1.341	tons (short)	tons (long)	0.89287
kw-hrs	kg-calories	860.5	tons (short)	tons (metric)	0.90718
kw-hrs	kg-meters	3.671 x 10 ⁵	Watts	BTUs/min	0.05692
Liters	ccs	10 ³	watts	ft-lbs/min	44.26
liters	cu ft	0.03531	watts	ft-lbs/sec	0.7376
liters	cu ins	61.02	watts	hp	1.341 x 10 ³
liters	cu meters	10 ⁻²	watts	kg-calories/min	0.01434
liters	gals	0.2642	watts	kws	10 ³
liters	quarts (liq)	1.057	Watts/Hours	BTUs	3.415
Liters/Min	gals/sec	4.403 x 10 ⁻³	watts-hrs	ft-lbs	2655
Meters	cms	100	watts-hrs	hp-hrs	1.341 x 10 ⁻³
meters	ft	3.281	watts-hrs	kg-calories	0.8605
meters	ins	39.37	watts-hrs	kg-meters	367.1
meters	kms	10 ⁻³	watts-hrs	kw-hrs	10 ⁻³