

Conversion Factors

TO CONVERT	INTO	MULTIPLY BY	TO CONVERT	INTO	MULTIPLY BY
Atmospheres	cms of mercury	76.0	Cubic Feet	cubic cms	2.832×10^4
atmospheres	ft. of water (at 4°C)	33.90	cu ft	cu inches	1728
atmospheres	in of mercury		cu ft	cu meters	0.02832
	(at 0° C)	29.92	cu ft	cu yds	0.03704
atmospheres	kgs/sq cm	1.0333	cu ft	gals	7.48052
atmospheres	kgs/sq meter	10.332	cu ft	liters	28.32
atmospheres	pound/sq in	14.70	cu ft	pints (liq)	59.84
			cu ft	quarts (liq)	29.92
Bar	newtons/sq m	10^5	Cu Ft/min	cu cms/sec	472.0
bar	atmospheres	0.9869	cu ft/min	gals/sec	0.1247
bar	at (tech.)	1.0197	cu ft/min	liters/sec	0.4720
bar	psi	14.504	cu ft/min	lbs water/min	62.43
			cu ft/sec	gals/min	448.831
Barrels—Oil	gals/oil	42			
BT Units	kg—calories	0.2520	Cu Inches	cc	16.39
BTUs	ft—lbs	777.9	cu ins	cu ft	5.787×10^{-4}
BTUs	hp—hrs	3.927×10^{-4}	cu ins	cu meters	1.639×10^{-5}
BTUs	kgs—meters	107.5	cu ins	cu yds	2.143×10^{-5}
BTUs	kw—hrs	2.928×10^{-4}	cu ins	gals	4.329×10^{-3}
			cu ins	liters	1.639×10^{-2}
BTU/Min	ft—lb/sec	12.96	cu ins	pints (liq)	0.03463
BTU/min	hp	0.02356	cu ins	quarts (liq)	0.01732
BTU/min	kw	0.01757			
BTU/min	watts	17.57	Cu Meters	cc	10^4
			cu M	cu ft	35.31
Centimeters	inches	0.3937	cu M	cu ins	61,023
cm	meters	0.01	cu M	cu yds	1.308
cm	mm	10	cu M	gals	264.2
			cu M	liters	10^3
Cms mercury	atm	0.01316	cu M	pints (liq)	2113
cms mercury	ft water	0.4461	cu M	quarts (liq)	1057
cms mercury	kgs/sq meter	136.0			
cms mercury	lbs/sq ft	27.85	Cu Yards	cu cms	7.646×10^5
cms mercury	lbs/sq in	0.1934	cu yds	cu ft	27
			cu yds	cu ins	46,656
Cms/second	ft/min	1.969	cu yds	cu meters	0.7646
cms/sec	ft/sec	0.03281	cu yds	gals	202.0
cms/sec	km/hr	0.036			
cms/sec	meter/min	0.6	Decimeters	meters	0.1
cms/sec	miles/hr	0.02237			
cms/sec	miles/min	3.728×10^{-4}	Degrees (Angle)	minutes	60
			degs (angle)	radians	0.01745
Cms/Sec/Sec	ft/sec/sec	0.03281	degs (angle)	secs	3600
Cubic Cms	cu ft	3.531×10^{-5}			
cu cms	cu in	6.102×10^{-2}			
cu cms	cu meters	10^6			
cu cms	cu yds	1.308×10^{-6}			
cu cms	gals	2.642×10^{-4}			
cu cms	liters	10^{-3}			
cu cms	pints (liq)	2.113×10^{-3}			
cu cms	quarts (liq)	1.057×10^{-3}			

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Degrees/Sec	radians/sec	0.01745	Horse-Power	BTUs/min	42.44
degs/sec	revs/min	0.1667	hp	ft-lbs/min	33,000
degs/sec	revs/sec	0.002778	hp	ft-lbs/sec	550
Feet	cms	30.48	hp	hp (metric)	1.014
ft	ins	12	hp	kg-calories/min	10.70
ft	meters	0.3048	hp	kws	0.7457
ft	yds	1/3	hp	watts	745.7
Ft of Water	atms	0.02950	Hp-Hours	BTUs	2547
ft of w	ins mercury	0.8826	hp-hrs	ft-lbs	1.98 x 10 ⁶
ft of w	kgs/sq cm	0.03048	hp-hrs	kg-calories	641.7
ft of w	lbs/sq ft	62.32	hp-hrs	kg-meters	2.737 x 10 ⁵
ft of w	lbs/sq in	0.4328	hp-hrs	kw-hrs	0.7457
Feet/Min	cm/sec	0.5080	Inches	cms	2.540
ft/min	ft/sec	0.01667	Ins Mercury	atms	0.002458
ft/min	kms/hr	0.01829	ins mercury	ft water	1.133
ft/min	meters/min	0.3048	ins mercury	kgs/sq cm	0.03453
ft/min	miles/hr	0.01136	ins mercury	lbs/sq ft	70.73
Ft/Sec/Sec	cms/sec/sec	30.48	ins mercury	lbs/sq in	0.4912
ft/sec/sec	Meters/sec/sec	0.3048	Ins of Water	atms	0.002458
Ft-Pounds	BTUs	1.286 x 10 ⁻³	ins of w	ins mercury	0.07355
ft lbs	hp-hrs	5.050 x 10 ⁻⁷	ins of w	kgs/sq cm	0.002540
ft lbs	kg-calories	3.241 x 10 ⁻⁴	ins of w	lbs/sq ft	5.202
ft lbs	kg-meters	0.1383	ins of w	lbs/sq in	0.03613
ft lbs	kw-hrs	3.766 x 10 ⁻⁷	Kilograms	dynes	980,665
Ft-lbs/Min	BTUs/min	7.717 x 10 ⁻²	kgs	lbs	2.205
ft-lbs/min	ft-lbs/sec	0.01667	kgs	tons (short)	1.102 x 10 ⁻³
ft lbs/min	hp	3.030 x 10 ⁻⁵	kgs	grams	1000
ft-lbs/min	kg-calories/min	3.241 x 10 ⁻³	Kgs/Sq Cm	atms	0.9678
ft-lbs/min	kws	2.260 x 10 ⁻⁵	kgs/sq cm	ft water	32.81
Ft-lbs/Sec	BTUs/min	7.717 x 10 ⁻²	kgs/sq cm	ins mercury	28.96
ft-lbs/sec	hp	1.818 x 10 ⁻³	kgs/sq cm	lbs/sq ft	2048
ft-lbs/sec	kg-calories/min	1.945 x 10 ⁻²	kgs/sq cm	lbs/sq in	14.22
ft-lbs/sec	kws	1.356 x 10 ⁻³	Kilometers	cms	10 ⁵
Gallons	ccs	3785	kms	ft	3281
gals	cu ft	0.1337	kms	meters	10 ³
gals	cu ins	231	kms	miles	0.6214
gals	cu meters	3.785 x 10 ⁻³	Kms/Hr	cms/sec	27.78
gals	liters	3.785	kms/hr	ft/min	54.68
gals	pints (liq)	8	kms/hr	ft/sec	0.9113
gals	quarts (liq)	4	kms/hr	meters/min	16.67
Gallons, Imp	US gals	1.20095	kms/hr	miles/hr	0.6214
gallons, US	imp gals	0.83267	Kms/Hr/Sec	cms/sec/sec	27.78
Gallons/Min	cu ft/sec	2.228 x 10 ⁻³	kms/hr/sec	ft/sec/sec	0.9113
gal/min	liters/sec	0.06308	kms/hr/sec	Meters/sec/sec	0.2778
gal/min	cu ft/hr	8.0208			

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Kilowatts	BTUs/min	56.92	Newton	kgs	0.1020
kws	ft-lbs/min	4.425 x 10 ⁴	Ounces	lbs	1.805
kws	ft-lbs/sec	737.6	ozs	gram	28.349527
kws	hp	1.341	Ounces (Fluid)	cu in	1.805
kws	kg-calories/min	14.34	ozs (fluid)	liters	0.02957
kws	watts	10 ³	Pounds	ozs	16
Kilowatt-Hrs	BTUs	3415	lbs	tons (short)	0.005
kw-hrs	ft-lbs	2.655 x 10 ⁶	lbs	newtons (N)	4.44
kw-hrs	hp-hours	1.341	lbs	gram	453.5924
kw-hrs	kg-calories	860.5	Lbs of Water	cu ft	0.01605
kw-hrs	kg-meters	3.671 x 10 ⁵	lbs of water	cu in	27.73
Liters	ccs	103	lbs of water	gals	0.1204
liters	cu ft	0.03531	Lbs of Water/Min	cu ft/sec	2.679 x 10 ⁻⁴
liters	cu ins	61.02	Pounds/Cu Ft	lbs/cu in	5.787 x 10 ⁻⁴
liters	cu meters	10 ⁻²	Pounds/Cu In	lbs/cu ft	1728
liters	gals	0.2642	Pounds/Sq In	atms	0.06804
liters	quarts (liq)	1.057	lbs/sq in	ft water	2.311
Liters/Min	gals/sec	4.403 x 10 ⁻³	lbs/sq in	in mercury	2.036
Meters	cms	100	lbs/sq in	kgs/sq cm	0.07031
meters	ft	3.281	Radians	degrees	57.29578
meters	ins	39.37	Tons (Long)	kgs	1016
meters	kms	10 ³	tons (long)	lbs	2240
meters	mms	10 ³	tons (long)	tons (short)	1.12000
meters/min	cms/sec	1.667	Tons (Short)	kgs	2000
meters/min	ft/min	3.281	tons (short)	kps	907.18486
meters/min	ft/sec	0.05468	tons (short)	tons (long)	0.89287
meters/min	kms/hr	0.06	tons (short)	tons (metric)	0.90718
meters/min	miles/hr	0.03728	Watts	BTUs/min	0.05692
Meters/Sec	ft/min	196.8	watts	ft-lbs/min	44.26
meters/sec	ft/sec	3.281	watts	ft-lbs/sec	0.7376
meters/sec	kms/hr	3.6	watts	hp	1.341 x 10 ⁻³
meters/sec	kms/min	0.06	watts	kg-calories/min	0.01434
meters/sec	miles/hr	2.237	watts	kws	10
meters/sec	miles/min	0.03728	Watts/Hours	BTUs	3.415
Micron	meters	10 ⁻⁶	watts/hrs	ft-lbs	2655
microns	in	39 x 10 ⁻⁶	watts/hrs	hp-hrs	1.341 x 10 ⁻³
Miles/Hr	cms/sec	44.70	watts/hrs	kg-calories	0.8605
miles/hr	ft/min	88	watts/hrs	kg-meters	367.1
miles/hr	ft/sec	1.467	watts/hrs	kw-hrs	10 ⁻³
miles/hr	kms/hr	1.609	Minutes (Angle)	radians	2.909 x 10 ⁻⁴
miles/hr	meters/min	26.82			
Millimeters	cms	0.1			
mms	ins	0.0397			