

CONVERSION FACTORS

MULTIPLY	BY	OBTAIN
atmospheres	76.0	cms mercury
atm	29.92	ins mercury
atm	33.90	ft water
atm	1.0333	kgs/sq cm
atm	14.70	lbs/sq in
atm	1.058	tons/sq ft
Barrels-Oil	42	gals-oil
BT Units	0.2520	kgs-calories
BTU's	777.5	ft-lbs
BTU's	3.927×10^{-4}	hp-hrs
BTU's	107.5	kg-meters
BTU's	2.928×10^{-4}	kw-hrs
BTU Min	12.96	ft-lbs/sec
BTU/min	0.2356	hp
BTU/min	0.01757	kw
BTU/min	17.57	watts
Centimeters	0.3937	inches
cm	0.01	meters
cm	10	mm
Cms Mercury	0.01316	atm
cms mercury	0.4461	ft water
cms mercury	136.0	kgs/sq meter
cms mercury	27.85	lbs/sq ft
cms mercury	0.1934	lbs/sq in
Cms/Second	1.969	ft/min
cms/second	0.03281	ft/sec
cms/second	0.036	km/hr
cms/second	0.6	meters/min
cms/second	0.02237	miles/hr
cms/second	3.728×10^{-4}	miles/min
Cms/Sec/Sec	0.03281	ft/sec/sec
Cubic Cms	3.531×10^{-5}	cu ft
cu cms	6.102×10^{-2}	cu in
cu cms	10^{-6}	cu meters
cu cms	1.308×10^{-6}	cu yds
cu cms	2.642×10^{-4}	gals
cu cms	10^{-3}	liters
cu cms	2.113×10^{-3}	pints (liq)
cu cms	1.057×10^{-3}	quarts (liq)
Cubic Feet	2.832×10^4	cubic cms
cu ft	1728	cu inches
cu ft	0.02832	cu meters
cu ft	0.03704	cu yds
cu ft	7.48052	gals
cu ft	28.32	liters
cu ft	59.84	pints (liq)
cu ft	29.92	quarts (liq)
Cu Ft/min	472.0	cu cms/sec
cu ft/min	0.1247	gals/sec
cu ft/min	0.4720	liters/sec
cu ft/min	62.43	lbs w/min

MULTIPLY	BY	OBTAIN
Cu Ft/Sec	0.646317	Million gals/day
cu ft/sec	448.831	gals/min
Cu inches	16.39	cc
cu ins	5.787×10^{-4}	cu ft
cu ins	1.639×10^{-5}	cu meters
cu ins	2.143×10^{-5}	cu yds
cu ins	4.329×10^{-3}	gals
cu ins	1.639×10^{-2}	liters
cu ins	0.03463	pints (liq)
cu ins	0.01732	quarts (liq)
Cu Meters	10^6	cc
cu M	35.31	cu ft
cu M	61.023	cu ins
cu M	1.308	cu yds
cu M	264.2	gals
cu M	10^3	liters
cu M	2113	pints (liq)
cu M	1057	quarts (liq)
Cu Yards	7.646×10^5	cu cms
cu yds	27	cu ft
cu yds	46.656	cu ins
cu yds	0.7646	cu meters
cu yds	202.0	gals
cu yds	764.6	liters
cu yds	1616	pints (liq)
cu yds	807.9	quarts (liq)
Decimeters	0.1	meters
Degs (Angle)	60	minutes
degs (angle)	0.01745	radians
degs (angle)	3600	secs
Degrees Sec	0.01745	radians/sec
degs/sec	0.1667	revs/min
degs/sec	0.002778	revs/sec
Fathoms	6	ft
Feet	30.48	cms
ft	12	ins
ft	0.3048	meters
ft	1/3	yds
Ft of Water	0.02950	atms
ft of w	0.8876	ins mercury
ft of w	0.08048	kgs/sq cm
ft of w	62.43	lbs/sq ft
ft of w	0.4335	lbs/sq in
Feet/Min	0.5080	cms/sec
ft/min	0.01667	ft/sec
ft/min	0.01829	kms/hrs
ft/min	0.3040	ms/min
ft/min	0.01136	miles/hr
Ft/Sec/Sec	30.48	cms/sec/sec
ft/sec/sec	0.3048	ms/sec/sec

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Ft Pounds	1.286 x 10 ⁻³	BTU's
ft lbs	5.050 x 10 ⁻⁷	hp-hrs
ft lbs	3.241 x 10 ⁻⁴	kg-calories
ft lbs	0.1383	kg-meters
ft lbs	3.766 x 10 ⁻⁷	kw-hrs
Ft-Lbs/Min	1.286 x 10 ⁻³	BTUs/min
ft-lbs/min	0.01667	ft-lbs/sec
ft-lbs/min	3.030 x 10 ⁻⁵	hp
ft-lbs/min	3.241 x 10 ⁻⁴	kg-calories/min
ft-lbs/min	2.260 x 10 ⁻⁵	kws
Ft-Lbs/Sec	7.717 x 10 ⁻³	BTUs/min
ft-lbs/sec	1.818 x 10 ⁻³	hp
ft-lbs/sec	1.945 x 10 ⁻²	kg-calories/min
ft-lbs/sec	1.356 x 10 ⁻³	kws
Gallons	3785	ccs
gals	0.1337	cu ft
gals	231	cu ins
gals	3.784 x 10 ⁻³	cu meters
gals	3.785	liters
gals	8	pints (liq)
gals	4	quarts (liq)
Gallons, Imp	1.20095	US gals
Gallons, US	0.83267	imp gals
Gallons Water	8.3453	lbs water
Gallons/Min	2.228 x 10 ⁻³	cu ft/sec
gals/min	0.06308	liter/sec
gals/min	8.0208	cu ft/hr
Gals Water/Min	6.0086	tons water/24 hrs
Grams		dynes
grams		grains
grams	10 ⁻³	kgs
grams	10 ³	milligrams
grams	0.03527	ozs
grams	0.03215	ozs (troy)
grams	2.205 x 10 ⁻³	lbs
Grams/Cm	5.600 x 10 ⁻³	lbs/in
Grams/Cu Cm	62.43	lbs/cu ft
grams/cu cm	0.03613	lbs/cu in
Grams/Liter	58.417	grains/gal
grams/liter	8.345	lbs/1000 gals
grams/liter	0.062427	lbs/cu ft
grams/liter	1000	parts/million
Horsepower	42.44	BTUs/min
hp	33.000	ft-lbs/min
hp	550	ft-lbs/sec
hp	1.014	hp (metric)
hp	10.70	kg-calories/min
hp	0.7457	kws
hp	745.7	watts

MULTIPLY	BY	OBTAIN
Hp-Hours	2547	BTUs
hp-hrs	1.98 x 10 ⁶	ft-lbs
hp-hrs	641.7	kg-calories
hp-hrs	2.737 x 10 ⁵	kg-meters
hp-hrs	0.7457	kw-hrs
Inches	2.540	cms
Ins Mercury	0.03342	atms
ins mercury	1.133	ft water
ins mercury	0.03453	kgs/sq cm
ins mercury	70.73	lbs/sq ft
ins mercury	0.4912	lbs/sq in
Ins of Water	0.002458	atms
ins of w	0.07355	ins mercury
ins of w	0.002540	kgs/sq cm
ins of w	0.5781	ozs/sq in
ins of w	5.202	lbs/sq ft
ins of w	0.03613	lbs/sq in
Kilograms	980.665	dynes
kgs	2.205	lbs
kgs	1.102 x 10 ⁻³	tons (short)
kgs	10 ³	grams
Kgs/Sq Cm	0.9678	atms
kgs/sq cm	32.81	ft water
kgs/sq cm	28.96	ins mercury
kgs/sq cm	20.48	lbs/sq ft
kgs/sq cm	14.22	lbs/sq ft
Kiloliters	10 ³	liters
Kilometers	10 ⁵	cms
kms	3281	ft
kms	10 ³	meters
kms	0.6214	miles
Kms Hr	27.78	cms/sec
kms hr	54.68	ft/min
kms hr	0.9113	ft/sec
kms hr	16.67	meters/min
kms hr	0.6214	miles/hr
Kms/Hr Sec	27.78	cms/sec/sec
kms/hr sec	0.9113	ft/sec/sec
kms/hr sec	0.2778	Ms/sec/sec
Kilowatts	56.92	BTUs/min
kws	4.425 x 10 ⁴	ft-lbs/min
kws	737.6	ft-lbs/sec
kws	1.341	hp
kws	14.34	kg-calories/min
kws	10 ³	watts
Kilowatt-Hrs	3415	BTUs
kw-hrs	2.6655 x 10 ⁶	ft-lbs
kw-hrs	1.341	hp-hours
kw-hrs	860.5	kg-calories
kw-hrs	3.671 x 10 ⁵	kg-meters

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MULTIPLY	BY	OBTAIN
Liters	10 ³	ccs
liters	0.03531	cu ft
liters	61.02	cu ins
liters	10 ⁻²	cu meters
liters	0.2642	gals
liters	1.057	quarts (liq)
Liters/Min	4.403 x 10 ⁻³	gals/sec
Meters	100	cms
meters	3.281	ft
meters	39.37	ins
meters	10 ⁻³	kms
meters	10 ³	mms
Meters/Min	1.667	cms/sec
meters/min	3.281	ft/min
meters/min	0.05468	ft/sec
meters/min	0.06	kms/hr
meters/min	0.03728	miles/hr
Meters/Sec	196.8	ft/min
meters/sec	3.281	ft/sec
meters/sec	3.6	kms/hr
meters/sec	0.06	kms/min
meters/sec	2.237	miles/hr
meters/sec	0.03728	miles/min
Microns	10 ⁻⁶	meters
microns	25.400	in
Miles/Hr	44.70	cms/sec
miles/hr	88	ft/min
miles/hr	1.467	ft/sec
miles/hr	1.609	kms/hr
miles/hr	0.8684	knots
miles/hr	26.82	meters/min
Millimeters	0.1	cms
mms	0.03937	ins
Mins (Angle)	2.909 x 10 ⁻⁴	radians
Ounces	16	drams
ozs	437.5	grains
ozs	0.0625	lbs
ozs	28.349527	grams
ozs	0.9115	ozs (troy)
ozs	2.790 x 10 ⁻⁵	tons (long)
ozs	2.835 x 10 ⁻⁵	tons (metric)
Ozs (Fluid)	1.805	cu in
ozs (fluid)	0.02957	liters
Pounds	16	ozs
lbs	256	drams
lbs	7000	grains
lbs	0.0005	tons (short)
lbs	453.5924	grams
lbs	1.21528	lbs (troy)
lbs	14.5833	ozs (troy)

MULTIPLY	BY	OBTAIN
Lbs of Water	0.01602	cu ft
lbs of water	27.68	cu in
lbs of water	0.1198	gals
Lbs of w/Min	2.679 x 10 ⁻⁴	cu ft/sec
Pounds/Cu Ft	5.787 x 10 ⁻⁴	lbs/cu in
Pounds/Cu In	1728	lbs/cu ft
Pounds/Sq In	0.06804	atms
lbs/sq in	2.307	ft water
lbs/sq in	2.036	in mercury
lbs/sq in	0.07031	kgs/sq cm
Radians	57.29578	degrees
Tons (Long)	1016	kgs
tons (long)	2240	lbs
tons (long)	1.12000	tons (short)
Tons (Short)	2000	lbs
tons (short)	907.18486	kgs
tons (short)	2430.56	lbs (troy)
tons (short)	0.89287	tons (long)
tons (short)	29166.66	ozs (troy)
tons (short)	0.90718	tons (metric)
Watts	0.05692	BTUs/min
watts	44.26	ft-lbs/min
watts	0.7376	ft-lbs/sec
watts	1.341 x 10 ⁻³	hp
watts	0.01434	kg-calories/min
watts	10 ⁻³	kws
Watt-Hours	3.415	BTUs
watt-hrs	2655	ft-lbs
watt-hrs	1.341 x 10 ⁻³	hp-hrs
watt-hrs	0.8605	kg-calories
watt-hrs	367.1	kg-meters
watt-hrs	10 ⁻³	kw-hrs

Temperature Conversion Fahrenheit And Centigrade

To convert Fahrenheit to Celsius (Centigrade)

$$.556 \times ({}^{\circ}\text{F} - 32) = {}^{\circ}\text{C}$$

To convert Celsius (Centigrade) to Fahrenheit

$$({}^{\circ}\text{C} \times 1.8) + 32 = {}^{\circ}\text{F}$$

C°	F°	C°	F°
-30	-22	40	104
-25	-13	45	113
-20	-4	50	122
-15	5	55	131
-10	14	60	140
-5	23	65	149
0	32	70	158
5	41	75	167
10	50	80	176
15	59	85	185
20	68	90	194
25	77	95	203
30	86	100	212
35	95	105	221