

Auxiliary Systems Conversion Table

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To Convert From	To	Multiply By
p.c.u./(hr.)(ft. ²)(°C.)	B.t.u./(hr.)(ft. ²)(°F)	1
kg.-cal./(hr.)(m ²)(°C.)	B.t.u./(hr.)(ft. ²)(°F)	0.2048
g.-cal./(sec.)(cm. ²)(°C.)	B.t.u./(hr.)(ft. ²)(°F)	7380
watts/(cm. ²)(°C)	B.t.u./(hr.)(ft. ²)(°F)	1760
watts/(in. ²)(°F.)	B.t.u./(hr.)(ft. ²)(°F)	490
B.t.u./(hr.)(ft. ²)(°F)	p.c.u./(hr.)(ft. ²)(°C)	1
B.t.u./(hr.)(ft. ²)(°F)	kg.-cal./(hr.)(m. ²)(°C.)	4.88
B.t.u./(hr.)(ft. ²)(°F)	g.-cal./(sec.)(cm. ²)(°C.)	0.0001355
B.t.u./(hr.)(ft. ²)(°F)	watts/(cm. ²)(°C.)	0.000568
B.t.u./(hr.)(ft. ²)(°F)	watts/(in. ²)(°F.)	0.00204
B.t.u./(hr.)(ft. ²)(°F)	hp./(ft. ²)(°F.)	0.000394
u=viscosity		
centipoises	g./(sec.)(cm.) or poise	0.01
centipoises	lb./(sec)lb./(sec.)(ft.)(ft.)	0.000672
centipoises	lb./(hr.)(ft.)	2.42
centipoises	kg./(hr.)(m.)	3.6
centipoises per centimeter	square feet per second	929
k= thermal conductivity		
g.-cal./(sec.)(cm. ²)(°C./cm.)	B.t.u./(hr.)(ft. ²)(°F./in.)	2903
watts/(cm. ²)(°C./cm.)	B.t.u./(hr.)(ft. ²)(°F./in.)	694
g.-cal./(hr.)(cm. ²)(°C./cm.)	B.t.u./(hr.)(ft. ²)(°F./in.)	0.8064

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KPA	lbs/sq. in.	0.145
MPA	KPA	1000
Gallons/day	Gal/min.	6.944×10^{-4}
Gallons/day	Gal/hr.	4.167×10^{-2}
Gallons/day	lbs/hr.	0.3472
Gallons/day	Metric tons/hr.	1.577×10^{-4}
Gallons/day	Metric tons/hr.	3.785×10^{-3}
Gallons/day	liters/sec.	4.38×10^{-5}
W		
watts	kg.-calories/min.	1.433×10^{-2}
watts	kilowatts	1.0×10^{-3}
watts (abs.)	joules/sec.	1
watt-hours	btu	3.143
watt-hours	ergs	3.6×10^{10}
watt-hours	foot-lbs.	2.656×10^3
watt-hours	gram-calories	8.605×10^2
watt-hours	horsepower-hours	1.341×10^{-3}
watt-hours	kilogram-calories	8.605×10^{-1}
watt-hours	kilogram-meters	3.672×10^2
watt-hours	kilowatt-hours	1.0×10^{-3}
watt (international)	watt (absolute)	1.000165
webers	maxwells	1.0×10^8
webers	kilolines	1.0×10^5
webers/sq.-in.	gausses	1.55×10^7
webers/sq.-in.	lines/sq.in.	1.0×10^8
webers/sq.-in.	webers/sq.cm.	1.55×10^{-1}
webers/sq.-in.	webers/sq.meter	1.55×10^3
webers/sq.-meter	gausses	1.0×10^4
webers/sq.-meter	lines/sq.in.	6.452×10^4
webers/sq.-meter	webers/sq.cm.	1.0×10^{-4}
webers/sq.-meter	webers/sq.in.	6.452×10^{-4}
weeks	hours	1.68×10^2
weeks	minutes	1.008×10^4
weeks	seconds	6.048×10^5
Y		
yards	centimeters	9.144×10^1
yards	kilometers	9.144×10^{-4}
yards	meters	9.144×10^{-1}
yards	miles (nautical)	4.934×10^{-4}
yards	miles (statue)	5.682×10^{-4}
yards	millimeters	9.144×10^2
years	days (mean solar)	3.65256×10^2
years	hours (mean solar)	8.7661×10^3