

## Heat Flux Unit Conversion Table

FROM

↓ TO →	W/cm <sup>2</sup>	W/m <sup>2</sup>	kW/m <sup>2</sup>	W/in <sup>2</sup>	W/ft <sup>2</sup>	BTU/in <sup>2</sup> /s	BTU/ft <sup>2</sup> /s	BTU/ft <sup>2</sup> /min	BTU/ft <sup>2</sup> /hr	cal/cm <sup>2</sup> /s	kcal/m <sup>2</sup> /hr	Solar Const.
W/cm <sup>2</sup>	1	10,000	10	6.452	929	6.118E-03	0.8811	52.86	3172	0.2388	8597	0.1361
W/m <sup>2</sup>	0.0001	1	0.001	6.452E-04	0.0929	6.118E-07	8.811E-05	5.286E-03	0.3172	2.388E-05	0.8597	1.361E-05
kW/m <sup>2</sup>	0.1	1000	1	0.6452	92.9	6.118E-04	0.0881	5.286	317.2	0.0239	859.68	0.0136
W/in <sup>2</sup>	0.155	1550	1.55	1	144	9.484E-04	0.1366	8.194	491.6	0.037	1333	0.0211
W/ft <sup>2</sup>	1.076E-03	10.76	0.0108	6.944E-03	1	6.586E-06	9.484E-04	0.0569	3.414	2.570E-04	9.254	1.465E-04
BTU/in <sup>2</sup> /s	163.4	1,634,400	1634	1054	151,841	1	144	8640	518,400	39.03	1,405,061	22.24
BTU/ft <sup>2</sup> /s	1.135	11,350	11.35	7.323	1054	6.944E-03	1	60	3600	0.2710	9757	0.1545
BTU/ft <sup>2</sup> /min	0.0189	189.2	0.1892	0.1220	17.57	1.157E-04	0.0167	1	60	4.517E-03	162.6	2.575E-03
BTU/ft <sup>2</sup> /hr	3.153E-04	3.153	3.153E-03	2.034E-03	0.2929	1.929E-06	2.778E-04	0.0167	1	7.529E-05	2.710	4.291E-05
cal/cm <sup>2</sup> /s	4.188	41,876	41.88	27.02	3890	0.0256	3.690	221.4	13,282	1	36,000	0.5699
kcal/m <sup>2</sup> /hr	1.163E-04	1.163	1.163E-03	7.505E-04	0.1081	7.117E-07	1.025E-04	6.149E-03	0.369	2.778E-05	1	1.583E-05
Solar Const.	7.348	73,475	73.475	47.40	6826	0.0450	6.474	388.4	23,305	1.755	63,165	1

To convert from the units listed in the first column, multiply by the value in the column of the units to which you wish to convert

Example: 100 BTU/ft<sup>2</sup>/s x 11.35 = 1135 kW/m<sup>2</sup>



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