

Heat transfer coefficient conversion chart

W/(m²·K), U-values, BTU/(h·ft²·°F). Factors are given to 7 significant figures; open the converter for full precision and the worked solution.

Conversion factors to watts per square metre kelvin (W/(m²·K))		
UNIT	IN W/(M²·K)	1 W/(M²·K) IN UNIT
watt per square metre kelvin (W/(m²·K))	1 W/(m²·K)	1 W/(m²·K)
kilowatt per square metre kelvin (kW/(m²·K))	1,000 W/(m²·K)	0.001 kW/(m²·K)
watt per square centimetre kelvin (W/(cm²·K))	10,000 W/(m²·K)	0.0001 W/(cm²·K)
BTU per hour square foot °F (BTU/(h·ft²·°F))	5.678263 W/(m²·K)	0.1761102 BTU/(h·ft²·°F)
kilocalorie (IT) per hour square metre °C (kcal_IT/(h·m²·°C))	1.163 W/(m²·K)	0.8598452 kcal_IT/(h·m²·°C)

W/(m²·K) → BTU/(h·ft²·°F)	
W/(M²·K)	BTU/(H·FT²·°F)
0.1 W/(m²·K)	0.01761102 BTU/(h·ft²·°F)
0.5 W/(m²·K)	0.08805509 BTU/(h·ft²·°F)
1 W/(m²·K)	0.1761102 BTU/(h·ft²·°F)
2 W/(m²·K)	0.3522204 BTU/(h·ft²·°F)
5 W/(m²·K)	0.8805509 BTU/(h·ft²·°F)
10 W/(m²·K)	1.761102 BTU/(h·ft²·°F)
20 W/(m²·K)	3.522204 BTU/(h·ft²·°F)
25 W/(m²·K)	4.402755 BTU/(h·ft²·°F)
50 W/(m²·K)	8.805509 BTU/(h·ft²·°F)
100 W/(m²·K)	17.61102 BTU/(h·ft²·°F)
250 W/(m²·K)	44.02755 BTU/(h·ft²·°F)
500 W/(m²·K)	88.05509 BTU/(h·ft²·°F)
1,000 W/(m²·K)	176.1102 BTU/(h·ft²·°F)

BTU/(h·ft²·°F) → W/(m²·K)	
BTU/(H·FT²·°F)	W/(M²·K)
0.1 BTU/(h·ft²·°F)	0.5678263 W/(m²·K)
0.5 BTU/(h·ft²·°F)	2.839132 W/(m²·K)
1 BTU/(h·ft²·°F)	5.678263 W/(m²·K)
2 BTU/(h·ft²·°F)	11.35653 W/(m²·K)
5 BTU/(h·ft²·°F)	28.39132 W/(m²·K)
10 BTU/(h·ft²·°F)	56.78263 W/(m²·K)
20 BTU/(h·ft²·°F)	113.5653 W/(m²·K)
25 BTU/(h·ft²·°F)	141.9566 W/(m²·K)
50 BTU/(h·ft²·°F)	283.9132 W/(m²·K)
100 BTU/(h·ft²·°F)	567.8263 W/(m²·K)
250 BTU/(h·ft²·°F)	1,419.566 W/(m²·K)
500 BTU/(h·ft²·°F)	2,839.132 W/(m²·K)
1,000 BTU/(h·ft²·°F)	5,678.263 W/(m²·K)

Formula: $BTU/(h·ft²·°F) = W/(m²·K) \times 0.1761101837$