Prefixes

The powers of ten provide the basis for the prefixes used to indicate multiples (and submultiples) of units. In the SI (metric) system, the most common prefixes are:

SI (Metric) Prefixes

Symbol	Prefix	Multiply by	which is
K	kilo-	10 ³	one thousand
M	mega-	10 ⁶	one million
G	giga-	10 ⁹	one billion
Т	tera-	10 ¹²	one trillion
P	peta-	10 ¹⁵	one quadrillion
E	еха-	10 ¹⁸	one quintillion
m	mili-	10^{-3}	one thousandth
С	centi	10 ⁻²	one hundredth
d	deci-	10 ⁻¹	one tenth

The **SI (metric)** system is very consistent with the use of prefixes. Unfortunately, the inch-pound system of units is not consistent in the use of prefixes as shown below.

Some Common US (inch-pound) Prefixes Energy Units

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1 \text{ kBtu} = 1,000 \text{ Btu}
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1 MBtu = 1,000 kBtu (or 1,000,000 Btu)

1 Therm = 100,000 Btu

Power Units

1KW = 3414 Btu/hr or 1,000 W

1 MBh = 1,000 Btu/hr

1 MMBtuh = 1,000 MBh or 1,000,000 Btu/hr

I know - it is confusing.....!!!