

In order to calculate the average operating cost for any electrical appliance you can use the following formula:

watts/1000 = kW x hours of operation = kW x kWh rate = cost

Watts can usually be found on the appliance nameplate.

Example: How much does it cost to operate my electric heater? An electric heater wattage is usually given on the unit itself, or with the literature that comes with it. A simple example is 1000 watts. To use this heater for 1 hour would cost based on UK Midlands British Gas standard tariff of 12.6p (September 2016) would be:-

1000 watts = 1kW x1 hour of operation = 1 kWh x 12.6p = £0.126p

This can then be calculated by hours used per day and by how many day although dependent on individual usage and of course the type of building it is being used in? Is it double glazed, insulated, type of floor and roof etc.

700 watt	0.7 x 12.6p	=	£0.09p per hour
900 watt	0.9 x 12.6p	=	£0.11p per hour
1250 watt	1.25 x 12.6p	=	£0.16p per hour
1500 watt	1.5 x 12.6p	=	£0.19p per hour
1800 watt.	1.8 x 12.6p	=	£0.23p per hour

The running costs of our towel rail Thermostatic and standard elements are as follows using the same formula –

Thermostatic

300 watt	0.3 x 12.6p	=	£0.04p per hour
600 watt	0.6 x 12.6p	=	£0.08p per hour
900 watt	0.9 x 12.6p	=	£0.11p per hour

Standard Heating Element

0.15 x 12.6p	=	£0.02p per hour
0.25 x 12.6p	=	£0.03p per hour
0.4 x 12.6p	=	£0.05p per hour
0.6 x 12.6p	=	£0.08 per hour
0.9 x 12.6p	=	£0.11p per hour
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