

## Cost of Living Crisis – Heating Homes

There is nothing that can be done to beat the gas, oil and electricity price increases unless there is new thinking and behaviour in using heating.

If we all continue to heat as we have done for the last fifty years when energy costs were low many millions of consumers will be living in the cold and damp.

We at IRG have therefore decided to try to help in this crisis by offering a way out to consumers by creating a heating plan after purchase of an infrared heating system.

The infrared Heating system will cost around £2000 for a 4-bed house and obviously less for a smaller house or flat. Thereafter the annual heating bill as shown below is around £600 a year against upwards of £2800 per year. In one year therefore the cost of purchase and heating is repaid. In subsequent years the saving is still around £2000 a year.

There is no annual servicing cost, saving another £6400 plus inflation over the life span of our Infrared of 40 years



### A typical house with 12 rooms

#### Infrared Heating Requirement

Variables

Average Price per KWh

0.28

Average Daily rate

0.40

Room	Size m2	Wattage	Hours usage per day	Heating days p.a	Base Cost
Kitchen / Dining Room	14.78	700	5.1	210	209.92
Lounge	19.67	1000	1	210	58.80
Utility	3.25	175	0.5	210	5.15
WC	3.58	175	1	210	10.29
Hall	5.00	175	1	210	10.29
Bedroom 1	14.96	700	1	210	41.16
En-suite 1	6.70	320	0.5	210	9.41
Bedroom 2	11.49	700	1	210	41.16
En-suite 2	5.24	320	0.5	210	9.41
Bedroom 3	12.00	700	1	210	41.16
En-suite 3	4.55	320	0.5	210	9.41
Landing	5.00	175	1	210	10.29
106.22		5460			

Cost with smart usage **£456.44**

Daily standing charge **£146.00**

Total cost per annum **£602.44**

- The above calculations have been provided to show how if Infrared heating is used sensibly the annual fuel bill can be way below any gas, oil, heat pump or underfloor heating bill.  
The formula calculation is days x hours x (wattage/1000) x cost per Kwh plus Daily standing charge x 365.
- Obviously, each property will be different in size and number of rooms to be heated but the calculation gives a good idea of how to judge the heating requirement for your own property.
- The charge per KWh and daily charge will be different in whichever area you live but again you can make the calculation from the figures above to relate to your property.
- Infrared is radiant heat and completely unlike convection heat through radiators so only needs to be on when a particular room is being or about to be used. That is where the saving in heating bills is achieved. Thermostats are of course provided but in many rooms that are not used on a regular basis, those rooms only need an on/off switch if preferred.
- It appears from anecdotal evidence that most families live in their kitchen/diner. We have therefore shown the maximum heating usage in that room. When the family are not in the house at work and school no heating will be required until they return to the property. Another saving on fuel and heating bills.

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