



## If your calculation is greater 750 Watts

If your calculations indicate a power rating greater than 750 Watts use the following example

Room Size      Width            =      6000mm  
                          Length            =      3500mm  
                          Ceiling Height =      2400mm

Area                6000 x 3500 x 2400 =      **50.4 m<sup>3</sup>**

Nearest whole number:                      **Area = 51 m<sup>3</sup>**

**51 m<sup>3</sup> x 22 Watts = 1122 Watts**

We now use the following table to ascertain the correct heaters

Element Size	Approx. Power Usage
600mm x 400mm	200
650mm x 550mm	320
900mm x 600mm	480
1100mm x 600mm	580
1200mm x 600mm	750

Clearly we need more than 1 heating element in this room.

The choice of how many and of what size is totally your choice and can be decided to what best suit the room.

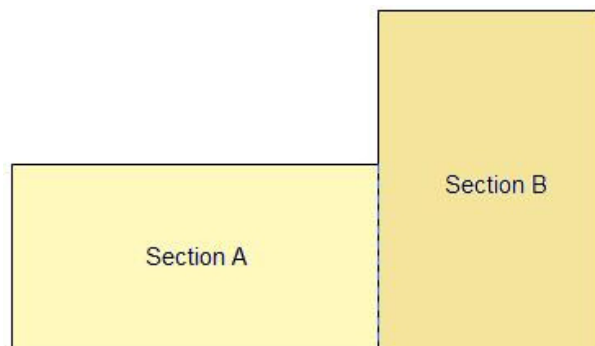
i.e.      1 No. 1200mm x 600mm & 1 No. 900mm x 600mm

or following alternatives could also be considered

1.      3 No. 600mm x 400mm
2.      4 No. 650mm x 550mm

## Planning Shaped Rooms & Hallways

If your room is not rectangular, L-Shaped for example then it should be divided into two sections. Each section should then be calculated using the same process as for a single room.



**Hallway, Stairs and Landing** should be calculated by separately measuring each section.

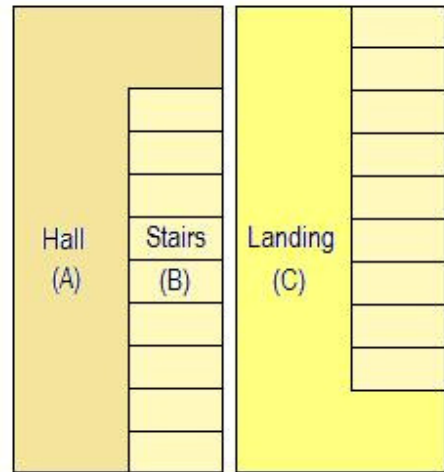
Example:

Hall            5.0m x 0.8m x 2.5m    =    10m<sup>3</sup>  
 Landing       4.0m x 0.8m x 2.5m    =    8m<sup>3</sup>  
 Stairs         6.5m x 0.8m x 2.5m    =    13m<sup>3</sup>

We now divide the area of the stairs by 2 and add the result to both of Hall & Landing areas. This will ensure that both heaters produce enough heat for the stairs as no heater is normally installed there.

$13m^3 / 2 = 6.5 m^3$

Hall            10m<sup>3</sup> + 6.5m<sup>3</sup>            =    **16.5m<sup>3</sup>**  
 Landing       8m<sup>3</sup> + 6.5m<sup>3</sup>            =    **14.5m<sup>3</sup>**



We then calculate the correct heater size in the usual method

Hall            16.5m<sup>3</sup> x 22 Watts        =    **363 Watts**  
 Landing       14.5m<sup>3</sup> x 22 Watts       =    **319 Watts**

We can now use the table to ascertain what heater sizes are required.

Hall            No Less Than 363 Watts = **1 No. 900mm x 600mm**  
 Landing       No Less Than 319 Watts = **1 No. 650mm x 550mm**

Element Size	Approx. Power Usage
600mm x 400mm	200
650mm x 550mm	320
900mm x 600mm	480
1100mm x 600mm	580
1200mm x 600mm	750

## Positioning Heaters

As our heaters project the heat directly into the room it is advisable to give them as much clear space as possible.

If you are planning on installing multiple heaters it is recommended that they are evenly shared throughout the room, this will ensure an even temperature.

All of our framed heaters can be wall or ceiling mounted.

## If you require Assistance

If you are in any doubt when it comes to planning your heating please contact our Support Team who will be only too happy to assist.

Telephone    0845 521 3034 (local rate)  
 0771 902 7416 (mobile)

Email         support@infranomic-energysolutions.com