

Helpful Hints

CENTRAL HEATING AND BOILER CHOICE

Most of our stoves are able to provide central heating if required, but it is essential that the system is balanced; that is to say, the central heating load and room requirements (stove site) match.

For instance, it would be uneconomic to choose a boiler with an output of **42,000 Btu's** plus stove providing a room output of **6-8Kw** when, in fact, the room would require **3.4Kw**. In practice, the stove would shut down to the **3 - 4Kw** output along with the boiler. In effect, the boiler you had anticipated to produce **42,000 Btu's** would actually produce **21,000 Btu's**.

To ensure we meet your requirements, a complete range of stove and boiler combinations have been developed that can provide variations from **70,000 Btu's** to water and **3.7Kw** to room to **8,000 Btu's** to water and **17.5Kw** to room.

If you only require hot water, please ask about our stainless steel boilers for direct systems.

SIZING

A good rule of thumb guide to calculate the heat requirement of a given room is:

Height x Width x Depth in metres divided by 14

(or in old money, divide the cubic footage of the room by five hundred)

This gives you the Kilowatt requirement.

Multiply this result by 3400 to get the Btu's requirement.

Formula: $\frac{H \times W \times D}{14} = \text{Kilowatts}$ Or $\frac{H \times W \times D}{14} \times 3,400 =$
Btu's

14

14

This is based on average house insulation with room temperatures of 20°C and an outside ambient temperature of -1°C

When choosing a stove/boiler combination, you should also take the following into account:

Allow **8,000 Btu's** for domestic hot water

Allow an additional 20% of the total Kw or Btu's requirement as calculated above for heat loss in the system.

OTHER NOTES

Boilers reduce firebox temperatures and, as clean burn relies on a high firebox temperature, the airwash may not be as effective in a fully boilered stove. Pipe thermostats must be used to control the flow and return water temperatures. The use of pipe thermostats will assist the clean burn effect and prolong the boiler life. The use of a stove thermometer can be an aid to ensuring correct running temperatures in both dry and wet stoves.

If you are contemplating a heating system using under floor heating make sure you use a heat store in the circuit to allow for the changes within the refuelling cycle. The outputs in our specifications are tested using a two hour refuelling cycle

Booklets detailing installation requirements and operating instructions are supplied with each stove. They contain important information on installation as well as details of our lifetime guarantee.

Burn dry wood. Fuel with more than 20% moisture will seriously impede the performance of your stove.

The illustrations on this specification sheet do not necessarily comply with local building regulations. Woodwarm stoves are defined as Class I appliances.

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