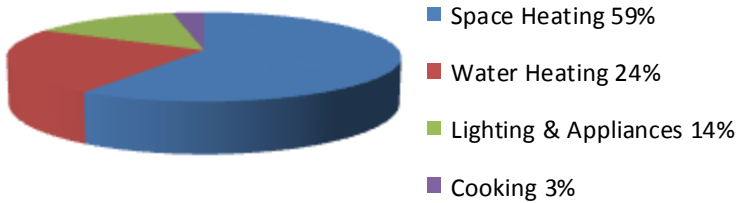


CENTRAL HEATING

Domestic Energy Usage



Central Heating - The Options

The type of heating system you choose is extremely important and a decision you will live with for many years.

The choices are numerous whether for a new property or to replace an existing system. Initial cost may seem the most important factor and is what many people focus upon. However, running costs are probably more important.

Capital cost is a one off - running costs are for life.

Under floor Heating or Radiators

For any new build property we would strongly recommend an Under Floor Heating System.

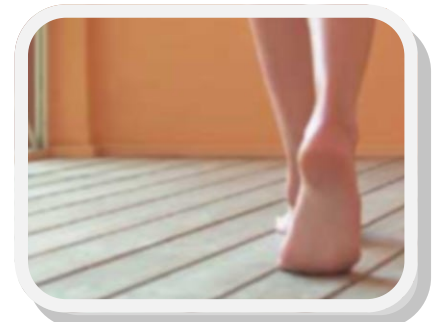
Under floor heating is more comfortable, more efficient and lower running costs than traditional radiators.

Under Floor systems provide a total and effective solution to room heating by being non intrusive, clean and silent in operation.

The comfort of this type of heating is superior to any other system particularly when fitted under ceramic tiles, natural stone or marble floors.

You and your family will benefit from the healthier living environment that Under Floor heating creates and lower running costs than radiator systems.

An Under floor heating system can use virtually any heat source be it Oil, Gas, Heat Pumps, Solar Thermodynamics etc.



Radiators

If you choose or have radiators again there are many types. These are typically known as Type 11, Type 21 and Type 22 as shown right.

Types 21 and 22 are the most common although you will still see some older radiators that do not have the "fins" at the back as per the diagrams.

The purpose of the fins is to convect heat around the room.

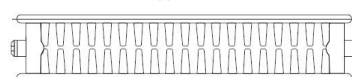
Type 11



Type 21



Type 22





The main choices

Oil or Gas boiler

Advantages; low initial capital cost / low cost installation

Disadvantages; may require delivery of fuel/s / requires annual maintenance

Ground Source Heat Pumps

Advantages; high level of efficiency / utilises natural energy sources / no maintenance cost

Disadvantages; extensive disruptive groundwork required / high capital cost

Air Source Heat Pumps

Advantages; high level of efficiency / utilises natural energy sources / well suited to the Isle of Man climate / no maintenance costs

Disadvantages; higher initial cost than commonplace boilers

Solar Thermodynamics (*this product will be covered in a separate data sheet*)

Advantages; very high level of efficiency / utilises natural energy sources

Disadvantages; high capital cost

Solar assisted heating; although not heating per se this is a highly recommended cost efficient investment.

A Solar Thermal system is installed to be used in conjunction with a standard central heating system to capture and store solar energy. *We have produced a separate data sheet for this bespoke EMS solution.*

Future proofing your heating installation

Most types of heating system require the inclusion of one or more hot water / storage cylinders.

It may be that your system only requires a simple hot water storage tank but in all cases we would strongly recommend the use of a "Thermal Store".

This Thermal store is capable of integrating multiple energy sources plus the added benefit of a solar coil.

This thermal store has a "tank in tank" design so is in effect two cylinders in one.

The inclusion of a thermal store means that should you ever wish to change or add to your heating system this product can be retained and can cater for any future possibilities.

This product comes with a 25 year guarantee for your peace of mind.

