



TM

Fischer

Future Heat UK

the future is electric™

Welcome to the future
of modern, instant heat





Introduction

Welcome to the future of modern, instant heat

Heat is one of life's vital necessities. In the UK, we rely on heating for more than 8 months of the year. With rising gas prices, there is an overwhelming demand for an affordable, efficient, reliable and fully controllable heating system. Electrical heating is clean and 100% efficient and at the point of use in the home has a zero carbon footprint. Electrification of heating should be considered as a high priority given it has a significant impact on total emissions*.

*HM Government 2050 Pathway Analysis

Quality achieved through experience

Fischer-Future Heat products are made in Germany, by a family business with over 60 years of manufacturing experience. The heating system has been designed by a specialist in-house research department and engineered from raw steel to finished product, by a highly skilled production team. Advanced technology, paired with quality craftsmanship, delivers a reliable product range that comes with a 10 year guarantee as standard. For good measure, all products are subjected to stringent tests by the quality control department, before leaving the factory.

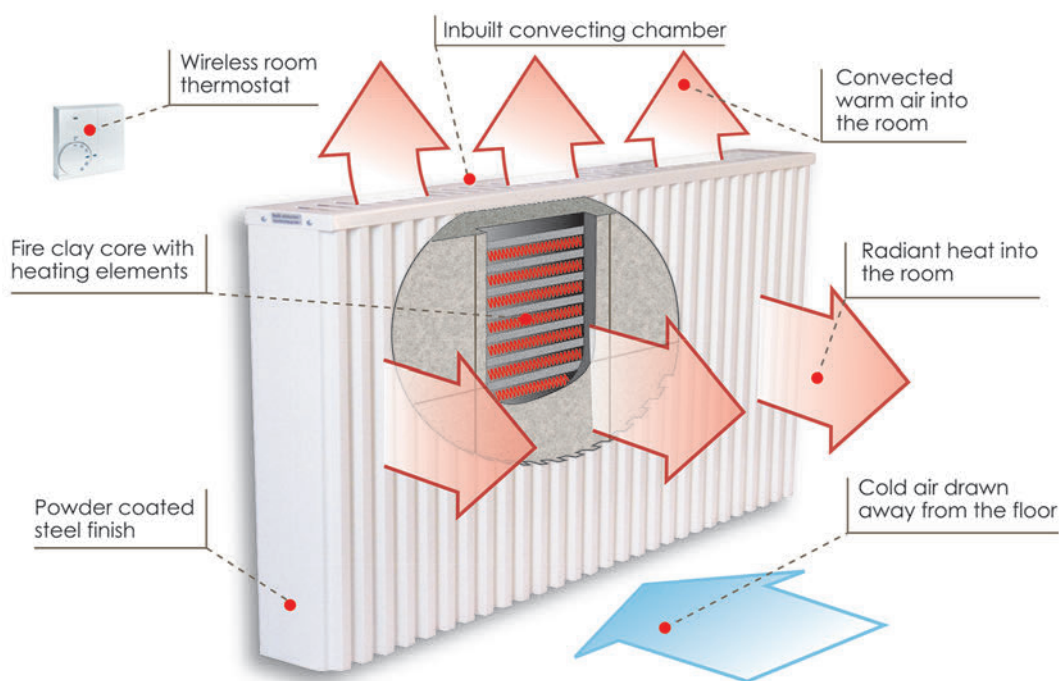
Quick and easy installation

Fischer heating units only use a low energy input. This enables them to be installed quickly and easily by simply plugging into a 13 amp domestic socket, without the need for additional wiring or fuse boxes. As well as being economical in their own right, the units are compatible with Economy 7 and Solar PV.

Fischer only use in-house trained, certified, reliable and efficient electricians. No subcontractors.

Fully controllable heat

One of the main drawbacks of older, unattractive storage heating units is being unable to accurately control the heat output. The UK's changeable climate makes it more important than ever to have a heating system that can be automatically controlled and deliver instant heat efficiently. Fischer heating systems have addressed this problem. It's modern, wireless, Intelligent Room Temperature control system detects the heating requirements of each room and adjusts to suit by controlling the charge to the storage element. There is no need to predict the weather. With the touch of a button it's possible to achieve the desired temperature in each room.



Technical

Choosing an electric heating system

It's important to choose an electric heater that has been designed and made by experienced manufacturers. The design of the product is instrumental to how effective and economical it is. The quality of the materials and components used is also an important factor, as not all heaters are able to heat up efficiently and retain heat in the same way.

Fireproof clay core

Chamotte is a fireproof clay core, mixed with up to 45% aluminium oxide, thereby heating the clay core quickly. The clay core can be fired up to temperatures of 1500°C, making it a highly heat resistant ceramic clay core.

40mm Clay Core – Exclusive to our heaters

For improved heat storage, a unique feature of the Fischer heating system is the 40mm thick chamotte fire clay core, installed in the front panel of the heater.

It enables the prolonged storage of heat to be radiated into the room and avoids heat wastage on the back wall. The special fire clay core is manufactured to retain heat for longer.

Fluting

The fluting ensures that the radiated heat in the room is tripled. It draws cold air up from the floor, through the hollow flutes and replaces it with warm air, thus warming the air in the room.

Disadvantages of older heaters

Conventional storage heaters are bulky, unattractive and can take up a lot of space in the room. In addition to this, they waste energy by pushing the warm air up to the ceiling, instead of circulating it around the room. This allows the cold air to stay on the floor and lower the temperature of the room. They also waste heat on the back wall hence they are installed on internal walls.

Advantages of Fischer-Future Heat system

The Fischer unit is built in high quality powder-coated steel, with fluting on the surface that radiates from a larger surface area. The flutes draw in cold air from the floor, producing a chimney effect that distributes heat evenly throughout the room from floor to ceiling. Due to its unique design, each slimline unit measures only 110mm wide, making it compact enough to fit in any sized room. The unique convecting chamber on the back panel of the radiator avoids heat wastage on the wall.

Lifestyle



New wireless thermostat

Fischer heaters do not have thermostats fitted on each individual radiator. A modern, wireless thermostat enables the temperature of the room to be controlled away from the radiator. It's easy to install with no wiring and enables an accurate measurement of the room temperature at all times.

Every room is programmed to control an economy temperature when not in use, which may be turned up to a comfort temperature when required, making the room warm quickly.

According to expert opinion, by installing better home-energy controls you can make average annual savings of £130. This saving is higher than the £100 a year being wasted by households without loft and cavity wall insulation, as estimated by the Department of Energy and Climate Change.

Adaptable for any space

Fischer's modern, slimline designs can be wall-mounted, freestanding or on castors, making them flexible enough to suit any space. They are ideal for areas that are quite difficult to heat, such as loft conversions and extensions. They provide a simple, easy solution without boilers and pipes causing minimal disruption to the home.

They are ideal for the bathroom too as they are specially tested and are rated with IPX4 water splashing certification. They can also be fitted with towel rails.

For conservatories, they are an ideal solution as these rooms quite often have limited wall space available due to large windows. Fischer heaters are available in a range of sizes, each capable of heating an additional room. Due to their unique design, even the smaller, low-level heating units provide excellent heat output.

Low input storage heaters – ideal when used with Solar PV

You can use Fischer storage heaters to store the heat during the day, which costs nothing and maintains the home at a comfortable temperature. Using low input means you can maximise the electricity you generate. In most cases homes can only produce 4kwp, of which the actual energy produced can be as low as 2.5kwp. This means, by using our 1.5kw storage radiator you can take all the charge from the FREE electricity you generate, making the most of every unit you use.

Choose a heating system that's easy to install with no wiring or pipework required.



High Quality German Engineering



Exclusive 40mm Clay Core



Controllable Heat



10 Year Manufacturer Guarantee

The most efficient German storage heater in the UK‡

- Maintenance free
- Economy 7 and Solar PV compatible
- Modern, 110mm slimline storage heaters
- Easy to install - uses 13 amp
- Low input smart storage heaters
- Instant heat for the whole house
- Modern room temperature control system
- Wireless, intelligent room thermostat
- Rated IPX4 water splashing certification*

Available in a range of sizes to suit every room

Designed by our specialist research department

Fischer heaters are wirelessly controlled

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*Refers to energy usage when used with our electronic thermostat over a 24 hour period as per independent tests in the UK, conducted by BSRIA.



Radiating efficiency

John Colling, Chairman of the Manufacturers Association for Radiators and Convectors highlights the benefits of steel panel radiators – especially for the eco-conscious...

With the economy set to overtake the pre-recession 2008 peak this summer, the construction industry, and in particular the house building sector, have a new found confidence.

Construction output is expected to grow by 4.0% in 2014, 3.0% in 2015, and 2.8% in 2016.

With new houses being built and the approach of the home improvements season, let us look at the role of the humble household radiator in today's future city.

The outlook

Our future cities are of course shaped not only by legislation and government initiatives, but by consumer demand. The biggest challenge for the industry is responding to those needs in a cost effective way.

Continuous innovation is the key to meeting this challenge. This is why we have seen the introduction and growth of high efficiency, low temperature heating systems, and also improvements to existing products.

The response

The list of heat source options is growing fast, with renewable technologies such as heat pumps becoming more popular.

The key point of difference between alternative heat source choices and traditional gas boilers is that the system temperature is often set at much lower temperatures. This can have significant impact on the suitability and performance of a heating system if the right supporting products are not used.

Radiators in our modern cities

Historically there has been a misconception that radiators are less energy efficient than some other heat emitters when used with low water temperature systems.

In fact, modern high performance steel panel radiators work well with low water temperatures, making them an ideal choice for eco-conscious developers and home owners.

This has been driven by the introduction of modern insulation materials and standards, bringing significant reduction in heat losses and therefore, it may no longer be necessary to heat water to 80°C in order to achieve a room temperature of 20°C.

Modern panel radiators need only small volumes of warm water to operate efficiently, and so work well with all heat sources. They start performing as soon as the water in the system, and therefore the panel, becomes warmer than the surrounding space. Low water temperature heating systems using modern panel radiators are one of the most efficient ways of using heating energy to deliver warmth.

Innovation in panel radiators means modern units use less steel, have lower water content, utilise convector fins and incorporate individual thermostatic valves – providing efficiency, comfort and versatility.

Development also denotes that radiators no longer need to take up large areas of wall space; however size is a factor when considering low temperature systems.

Radiators for low temperature systems are physically and technically the same as traditional panel radiators, but, the same size of radiator will not produce the same heat output with a low temperature system as it will with a high temperature system. To achieve this you will generally need to fit radiators that have larger surface areas.



Innovative developments in radiator design pack more surface area in a smaller wall space than ever before.

The modern day radiator can also work effectively alongside underfloor heating, and it is possible to use the same heating water for both. The latest SAP 2012 document has specific criteria for energy efficient low temperature heat generators and states that "radiators are as efficient as other heat emission systems", such as underfloor heating.

Radiators today are not only compatible with current building methods and skills sets, they are flexible and reactive - responding to the real time temperature needs and reacting to secondary gains e.g. people.

Due to their flexibility, steel panel radiators and convectors are the best way of introducing energy-efficient heat generators into existing properties, with renovation and retro-fit accounting for in excess of 90% of the UK and other major western European markets.

Not forgetting that radiators have undergone something of a renaissance in the last decade or so – in line with people's aspirations to create beautiful and unique homes that match their taste and lifestyle, the radiator has not been forgotten. Indeed, options in material, colour and design have meant it has become something of a work of art in itself.

In closing

Warmth is both a necessity and a pleasure. Whilst the sound of lapping waves may need to be improvised, warming yourself by the radiator is a similarly pleasurable experience to soaking up the summer sun.

In reality, nobody has found anything better than the radiator. While other types of heating system have emerged as popular options, the steel panel radiator can, and does, compete on all levels and is still very much the number one choice.

John Colling **Chairman**

Manufacturers Association for Radiators and
Convectors (MARC)

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