

Scottish Infrared Heating



Thank you for your interest in our electric **Far-infrared** heaters. In this booklet we will explain what makes these radiators so economic to run and different from other heating systems and how they might give you a nice healthy cosy home AND save you money on ever increasing energy costs.

Elsco Heating have partnered with First Heating, manufacturers of top quality far-infrared panels, exported all over the world. We are pleased to



be able to add these superb panels to our existing portfolio of innovative energy saving products.

These thin heating panels can be attached to the wall, ceiling or be free standing on stands.

Design

Looking just like panels or pictures on the wall or ceiling, these infrared heaters can give you a cosy, healthy heated room with no loss of floor space as occurs with more traditional heaters. Just as importantly as they heat objects in the



room rather than the air, giving a very economic heating system

Design and colour options are virtually unlimited. From black or white panels, mirrors, to a range of standard pictures or even your own favourite photo can become a heater! This booklet aims to give you a brief overview of these unique heaters. Much more information is available on our website.



These heaters look just the job!



www.scottishinfraredheating.co.uk

Scottish Infrared Heating is a trading division of Elsco Heating Ltd & Elsco Heating (Central) Ltd

Elsco Heating

Super efficient German heating for the Scottish Home



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The Science of Infrared Heating!

The law of thermodynamics say there are three ways heat can be transferred.

1) Conduction- Heat travelling from an area of high temperature to an area of low temperature within an object.

2 Convection - Heat circulation in an atmosphere of water or gas

3 Radiation- Electromagnetic transfer, even within a vacuum.

The majority of heating systems rely on convection. Our German radiators use a combination of convection and radiated heat.

Our Infrared heaters rely on radiated heat only, using what is known as the Far Infrared part of the spectrum.

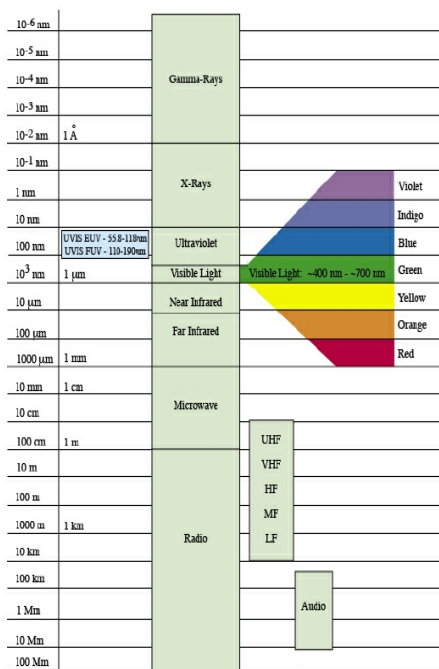
The sun emits electromagnetic radiation across the whole of the spectrum. Our eyes happen to be sensitive to the visible part of this spectrum which we use to see. We feel heat from the infrared part of the spectrum, which is why we can feel warm when the sun is shining on us, but suddenly feel much colder when a cloud passes in front of the sun. The air temperature hasn't changed much, we were just benefiting from the infrared!

The air can be very cold on top of a mountain, but a skier can still sunbath and feel warm on that mountain with the infrared heat from the sun.

Our heaters radiate infrared which does not so much heat the air, but

The Electromagnetic Spectrum

Chart by UNSF/University of Colorado, Boulder



nm=nanometer, Å=angstrom, μm=micrometer, mm=millimeter, cm=centimeter, m=meter, km=kilometer, Mm=Megameter

the objects that the infrared comes into contact with. We have seen that feeling warm or cold does not necessarily depend on the temperature of the air!

Infrared heating is a very safe heat but very different from convection based heating systems



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The Benefits

- Savings of 40-50% or more on traditional heating systems
- A one to two degree lower room temperature than traditional heating, can still be comfortable. A one degree temperature reduction can equate to a 5% saving on annual heating costs.
- No reduction in available floor space due to bulky radiators or storage heaters, use ALL your floor area
- Natural heat, like heat from the sun, many people think it has a beneficial effect on the immune system.
- Reduces and can prevent mildew and damp in walls, cold spots and condensation
- Has no adverse effect on room humidity
- As no convection, no draughts or chills, bacteria and dust less likely to be spread around the room
- No moving parts, maintenance or ongoing servicing costs



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Designs Available

These infrared heaters are



designed to be either fixed to a wall, a ceiling or on mobile or stationary stands. They can either have a frame or be “frameless” Frames are aluminium as standard, but can be any colour required.

The infrared heaters



themselves have a glass face, which in standard versions is either white or black, but again can be any colour desired. They can also be supplied as mirrors, with a range of standard designs or your own favourite photograph can be used!



We would recommend the WIST type (Wireless Intelligent Saving Thermostat) for most domestic situations, but slightly more powerful BASIC and BASIC ELEGANT versions might be more appropriate for offices, hospitals, churches etc where control might be via a centralised system.

In short there is something available to suit everyone!



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Pictures

Some of our range of standard pictures are shown here. The full range can be seen on our website



Beach 600 x 1200
1000 watts



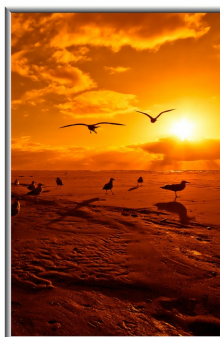
Mountain Flowers 600 x 900
800 watts



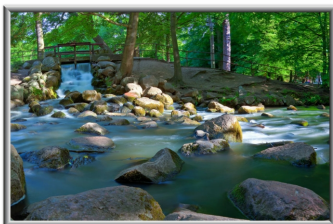
Seagull 600 x 900
800 watts



Poppies 600 x 600
500 watts



Birds on Beach 600 x 900
800 watts



Forest Water 600 x 900
800 watts



White Sand Beach 600 x 900
800 watts

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Prices

Everyone wants to know the price(s) and would like a price list, but how do you know what you need ?

Remember that the power of your heater(s) has to be right for the room and this is determined by a formula relating to the volume of the room, the use of the room and an indication of insulation .



You might need one heater for your room, you might need three!

This is where we come in to try and ensure your room is correctly balanced.

So this, along with the vagaries of delivery costs to different places, is why we don't issue a price list!



We don't buy the cheapest heaters! We have researched the market thoroughly and believe we offer tremendous value for money.

Our prices vary between £400 for a smaller unit up to £1200 for our largest unit including VAT, with controller and bespoke photograph. You can be assured, that once we get YOUR room dimensions an indication of insulation and your preferred design requirements, we will be able to quickly firm up on the correct sizes, design and cost to suit YOU. But if you need more information now, please phone and we will be pleased to help.



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Installation

Our heating panels generally require fixing to the wall or ceiling using four supplied brackets. There is also an option of stationary or mobile stands. A cardboard template is supplied with your radiator for squaring and easy location of your screw holes! If not an experienced

DIY person you may feel more comfortable having your heater installed by a professional. We have people available if required.

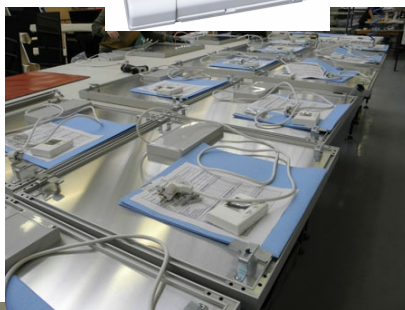


We recommend the WIST (Wireless Intelligent Saving Thermostat) for most domestic installations.



These include on/off switch and a very versatile wireless operated thermostat .

Our Far-infrared heaters are easy to handle and well packaged with all fixings required supplied .



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So what next?



This booklet gives a brief overview of these infrared heaters. More detailed information is available at www.scottishinfraredheating.co.uk

Alternatively phone us or e mail at info@elsco.co.uk We will also be pleased to arrange a no obligation visit if you feel it might help you.

www.scottishinfraredheating.co.uk

Other energy saving products from ElSCO you may be interested in:-

German Refractory Clay Core Heaters.

Traditional look electric radiator gives superb cosy heat with significant energy cost savings. Ideal replacement for storage heaters or any other inefficient systems Can be supplied as one unit for a single room up to multiple units for a whole house. www.elsco.co.uk for more info

Erad:- Intelligent Heating

Savings in the region of 70% can be achieved with this full house system utilising cutting edge heating technology and the ultimate in intelligent computer controls. Glass heating panels are unobtrusive aesthetically pleasing and incredibly efficient. www.elsco.co.uk/erad for more info

Elsco Heating.....warming Scotland!

with energy efficient heating products

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