

Funkyheat

SMART EFFICIENT HEATING



Product Information

The largest range of glass infrared heaters in the UK

About FUNKYHEAT

“THE BEST KIND OF HEATING AT THE BEST PRICE”

Welcome to Funkyheat...

... the award winning home of stylish, efficient and cost effective and high quality infrared heaters for your home or your business.

FunkyHeat is the future of style led heating with energy efficiency built in. Not only do our Award Winning heaters look great but they are also very smart in the way that they work. Creating a great look for any room, keeping you warm when you need to and saving energy when the world needs that more than ever.

We are part of the Wholesale Glass group, one of the UK's largest and independent glass processors and mirror manufacturers with many years experience and a factory incorporating state of the art glass processing machinery. An unrivalled glass processing resource, supplying over 100 tonnes of glass per week throughout the UK. Our quality is such that we provided the glass for the London Eye (and other Eyes throughout the world). We know glass.



Our heaters are award winning and recognised by interior design and heating professionals. Our design and manufacturing approach has been recognised by the designer kitchen and bathroom industry and we're proud to have won the GOLD award from Designer Kitchen and Bathrooms for Innovation in Sustainability. The Designer Kitchen & Bathroom Awards is an established and high profile event with an experienced judging panel. They acknowledge the best in design and manufacturing.

BRITISH MADE, BRITISH CERTIFIED.
THE LARGEST RANGE OF GLASS INFRARED HEATERS IN EUROPE

We are part of the Wholesale Glass group, one of the UK's largest and independent glass processors and mirror manufacturers with many years experience and a factory incorporating state of the art glass processing machinery.

We manufacture our heaters in a dedicated and state of the art production facility at our 40,000 ft² Ossett factory.

Manufacturing with the highest quality glass (cradle to grave certified underlining the importance we place on environmental manufacture), ensuring the vibrancy and longevity of your heater.



We believe in transparency and a simplicity of pricing – all of the prices on our website include VAT and delivery within mainland UK, these are not hidden extras.

Finally, if you have any questions you're unable to find answers to, or you'd just like to speak to us please visit our contact page, there's various ways to get in touch.



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Full product information, specifications, installation information and product videos are available at www.funkyheat.co.uk

WHAT IS INFRARED RADIANT HEAT?

Infrared or IR is a form of electromagnetic radiation with a lower frequency than visible light. It is completely safe (in fact it's perfect for us).

WHY USE INFRARED HEAT?

Infrared heating is one of the most cost effective heating systems available, efficiently converting electrical energy into far-infrared heat.



It keeps you nice and warm in exactly the same way the sun works and it doesn't waste energy and money by heating empty space.



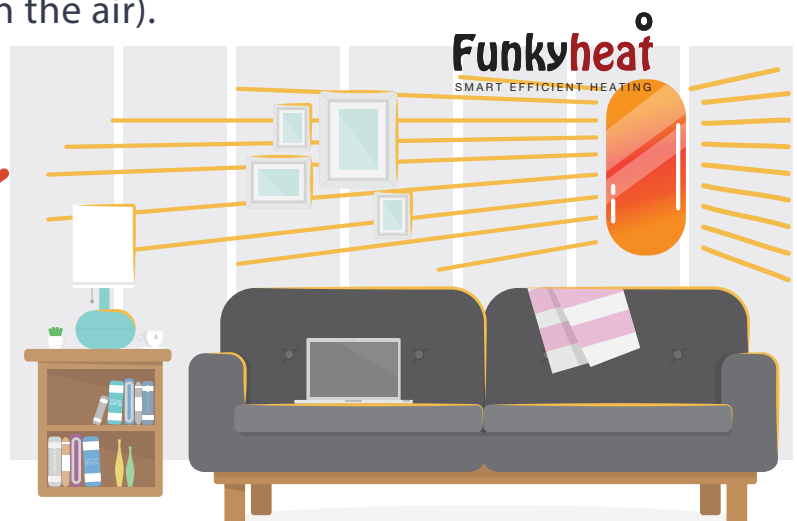
An independent study by the University of Kaiserslautern found that savings of about 50% are typical when comparing electric floor heating or night storage heating to infrared heating, and proportionate when compared to gas and oil.

HOW DOES INFRARED HEATING WORK?

Infrared heat works exactly like the world's largest natural heater, the sun. The rays of the sun (infrared rays) heat in the main the objects that they hit (rather than the air).



It is easy to feel the difference between having the rays hit your body and when they stop (for example when the sun is blocked by a cloud).



ADVANTAGES OF INFRARED HEATING PANELS

EFFICIENT

Up to twice as efficient as other heating systems.

ECO

Almost zero energy wastage and emission-free, a great partner for solar.

EASY TO INSTALL

No expensive plumber bills or unsightly pipes.



WALL MOUNTED

Or ceiling mounted if you need space.

INSTANT HEAT

Infrared heating acts very quickly.

ZERO

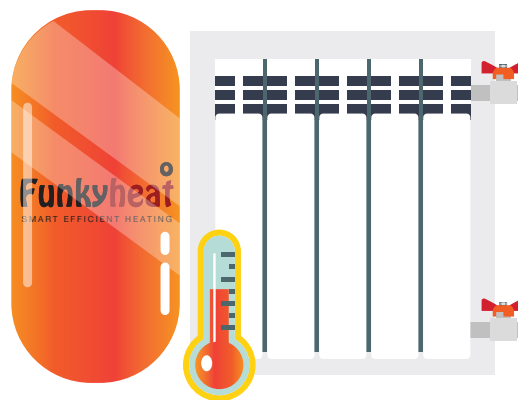
MAINTENANCE

Minimal parts.

WHY IS USING INFRARED HEATING MORE EFFICIENT?

1/3 MORE ENERGY is required to heat a room using convection heat.

Infrared heaters can provide the **same comfort levels** at lower temperatures than convection heat.



Convection heating is subject to **HIGHER HEAT LOSS** caused by draughts than infrared heating is.






Convection heat is a **far less efficient** source of heat transfer than infrared heating.

When compared to infrared heating, convection Heating takes 6% more energy to raise the temperature by 1C.




The Science of Infrared Heating

HOW DOES INFRARED HEATING SAVE MONEY WHEN COMPARED TO CONVECTION HEATING?

Are you just going to take our word for it? We hope not! There have been a number of independent studies looking at the various elements contributing to efficient heating and specifically the efficacy of infrared heating. The headline findings of those studies are:

-  1/3 more energy is required to heat a room using convection heat
-  Convection heating is subject to higher heat loss caused by draughts than infrared heating
-  Infrared heaters can provide the same comfort levels at lower temperatures than convection heat
-  Convection heat is a far less efficient source of heat transfer than infrared heating
-  When compared to infrared heating, it takes 6% more energy to raise the temp. by 1C

There are other savings too...Infrared heaters have no additional medium – traditional water based radiator systems use a boiler powered by gas, oil, pellet etc. to heat water, this is then pumped around pipes and through radiators before heating the air via a convection action. Inefficiency in traditional systems such as these occurs in 3 places:












-  The efficiency of the boiler. Boiler efficiency degrades very quickly from new and it is not uncommon for boilers to be less than 80% efficient during their working life
-  Heat loss occurs through the pipes that the water is pumped around, meaning that the boiler must work harder to make up for these heat losses
-  The inefficient action of convection heating (as described above)

Infrared heaters convert all their energy into heat. Only the top A-Rated condensing boilers can claim initial levels of efficiency approaching 97%, but in order to permit the temperature drop required to allow a condensing boiler to work, you often have to fit larger radiator panels, which can end-up being a considerable expense. With Infrared there are no maintenance costs and you should rarely have to replace a reliable make. Traditional boilers generally need to be replaced every 10 – 15 years (if not sooner).

Sources:




Zmeureanu, R., Fazio, P.P., and Haghighat, F. 1988. Thermal Performance of Radiant Heating Panels. T ASHRAE 94(2): 13-27
DeWerth, D.W. and Loria, R.L. 1989. In-space heater energy use for supplemental and whole house heating. T ASHRAE 95 (1): 239- 250
Hart, G.H. 1981. Heating the perimeter zone of an office building. T ASHRAE 87(2): 529-537
Howell, R.H. and Suryanarayana, S. 1990. Sizing of radiant heating systems: Part I-Ceiling Panels. T ASHRAE 96(1): 652-665
Kalisperis, L.N., Steinman, M., Summers, L.H., and Olesen, B. 1990. Automated design of radiant heating systems based on MRT. T ASHRAE 96(1): 1288-1295
Ling, M.D.F. and Deffenbaugh, J.M. 1990. Design strategies for low temperature radiant heating systems based on thermal comfort criteria. T ASHRAE 96(1): 1296-1305
Dudkiewicz, E. and Jezowiecki, J. 2009. Measured radiant thermal fields in industrial spaces served by high intensity IR. Energy and Buildings 41 (2009): 27-35
Ardehali, M.M., Panah, N.G., and Smith, T.F. 2004. Proof of concept modeling of energy transfer mechanisms for radiant conditioning panels. Energy Conversion and Management 45 (2004): 2005-2017
Roth, K., Dieckmann, J., and Brodrick, J. 2007. Infrared radiant heaters. ASHRAE Journal 49 (6): 72-73

WHAT OTHER BENEFITS ARE THERE WITH FUNKYHEAT?

-  Eco – Almost zero energy wastage and emission-free, a great partner for solar
-  Designer – Design your own heater with your favourite picture
-  Mirror – Mist-free mirror heaters for the bathroom
-  Easy installation – No expensive plumber bills or unsightly pipes
-  Wall mounted
-  Instant heat – Infrared heating acts very quickly
-  Zero maintenance – Minimal parts.
-  5 year warranty and CE certified
-  Healthy – Better for allergy sufferers, noise and odour free
-  Flexible – Solo use for difficult to heat rooms or as a whole heating system
-  Smart – Programmable thermostats with app control option

Easy to install, slimline design and supplied ready for either horizontal or vertical mounting, our stylish infrared heaters are available in a range of colours, shapes and sizes. We also offer a tailor-made service where you can personalise the radiator with your own image or logo, you can even specify your own colour or image.

All models:

-  Are suitable for bathrooms & wet rooms (the mirror heater will give you a mist free bathroom mirror!)
 -  Have a beautiful frameless design
 -  Incorporate built in sensors to ensure an even heat output
-

British Made Infrared

KEY FEATURES & BENEFITS

-  Beautiful, easy clean, frameless design infrared heater
-  Manufactured in finest quality glass
-  Widest range of colours, shapes and sizes available in Europe
-  Bespoke design and colour finishes to suit your taste
-  Easy to install, efficient to run and 100% recyclable
-  Horizontal or vertical mounting
-  Delivers fast comfortable radiant heat
-  Sensor controlled for perfectly distributed warmth
-  Low energy consumption
-  High output
-  Antifreeze function
-  Shatterproof – 8mm laminated toughened safety glass
-  5 Year Warranty

A STUNNING ADDITION TO ANY ROOM

We considered the environment carefully during the development of our heaters and this approach informs our manufacturing process with the environmental impact considered carefully for each life-cycle stage of our infrared heaters. All components used in the manufacture of our heaters have been carefully selected for their eco-compatibility and ability to recycle.

Thanks to the application of innovative technologies our heaters feature both high technical and aesthetic resistance properties, thus ensuring a long product life.

Our heaters have an impressive 5 year warranty and components are all EU manufactured. Our manufacturing process utilises the widest range of toughened, coloured glass from AGC in the UK.

In line with our environmental ethos, the paints used in processing are environmentally friendly low VOC paints and is also cradle to grave certified underlining the importance we place on environmental manufacture.

Styles Available:



Tintagel



Henge



Lakes








Deva





Hampstead

INFRARED HEATER OPTIONS AVAILABLE






-  400W (20 plus colours / mirror / own image / specific RAL)
-  800W (20 plus colours / mirror / own image / specific RAL)
-  1000W (20 plus colours / mirror / own image / specific RAL)
-  1200W (20 plus colours / mirror / own image / specific RAL)

-  LED option available for Henge, Hampstead & Deva shapes

-  Bespoke image (minimum 150 dpi required)
-  Towel Rail

QUALITY & MANUFACTURING

We manufacture our glass infrared heaters with double insulation and IP44 construction which makes them water-resistant so they are perfect for wet rooms and bathrooms – and the double safety element means that there's no chance of overheating. Each heater has a 5 year warranty and is manufactured to the following standards in Britain:

-  EN 60335-1:2012 / EN60335-2-30 (Safety of Electrical Appliances)
 -  EN55014 1 + 2 / EN61003-2 / EN61003-3 (EMC)
 -  EN50366:2003+A1 (EMF)
 -  CE Certified
 -  EN60529-1992 + A2 (IP44 rating)
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EXAMPLE COST OF HEATING CALCULATOR

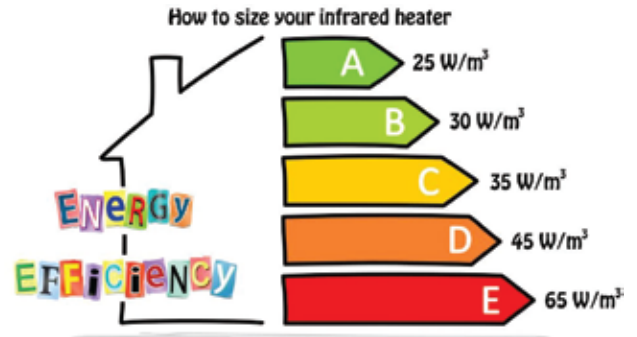
TYPE OF ROOM	VOLUME (m3)	WATTS required for infrared heating	Potential Annual Cost of Heating with infrared (£0.13 per kWh)	WATTS required for traditional heating	Potential Annual Cost of Heating with Radiators using Natural Gas (Assumes 85% efficient boiler) (£0.042 per kWh)	Potential Annual Cost of Heating with Oil Filled Electric Radiator (£0.13 per kWh)
Living & Dining	50	1250	£ 106,60	2250	£ 106,94	£ 287,82
Living & Dining	35	875	£ 74,62	1575	£ 74,86	£ 201,47
Bedroom	35	875	£ 74,62	1575	£ 74,86	£ 201,47
Bedroom	25	625	£ 53,30	1125	£ 53,47	£ 143,91
Bedroom	25	625	£ 53,30	1125	£ 53,47	£ 143,91
Kitchen	20	500	£ 42,64	900	£ 42,77	£ 115,13
Hallway & WCs	15	375	£ 31,98	675	£ 32,08	£ 86,35
Bathroom	12	288	£ 24,52	518	£ 24,60	£ 66,20
Cost of distributed heat losses based on 3 bed semi detached house			£ -		£ 35,00	£ -
Cost of supply and installation of replacement boiler based on 3 bed semi detached house (averaged over 20 years replaced twice at today's prices)			£ -		£ 150,00	£ -
Boiler and central heating maintenance plan at today's prices			£ -		£ 180,00	£ -
Annual Standing Charge			£ 75,00		£ 87,75	£ 75,00
TOTAL	217	5 413	£ 536,58	9743	£ 915,78	£ 1 321,26
				*Based on 82 days heating per year		
INFRARED HEATING SAVES £ PER YEAR			£ -	4330	£ 379,21	£ 784,68



WHAT SIZE OF INFRARED HEATER DO YOU NEED?

You need to work out the volume of the space you want to heat (width x length x height). Multiply this figure by the relevant number on the image opposite and that will give you the wattage required per m3.

Never choose an infrared heater with a lower wattage output than this figure, always select the next one up. If your house is less energy efficient, you need to allow more watts per m3.



SIZES AVAILABLE & TECHNICAL INFORMATION

DEVA RANGE			
WATTS	SHAPE	HEATER SIZE (mm)	Approx. HEATER WEIGHT
200		300 x 600	4KG
400		600 x 900	11KG
400		300 x 1200	8KG
400		300 x 1800	11KG
400		450 x 750	8KG
800		600 x 1200	15KG
1000		750 x 1200	17KG
1200		600 x 1800	22KG

HAMPSTEAD RANGE			
WATTS	SHAPE	HEATER SIZE (mm)	Approx. HEATER WEIGHT
200		600 x 600	8KG
200		600 x 600 LED	8KG
400		600 x 600	8KG
400		600 x 900 LED	11KG

TINTAGEL RANGE			
WATTS	SHAPE	HEATER SIZE (mm)	Approx. HEATER WEIGHT
400		450 x 900	9KG
400		450 x 1200	11KG
400		600 x 900	11KG
800		600 x 1200	15KG
1000		750 x 1200	18KG
1200		600 x 1800	22KG

LAKES RANGE			
WATTS	SHAPE	HEATER SIZE (mm)	Approx. HEATER WEIGHT
400		300 x 1800	11KG
400		450 x 1200	11KG
400		600 x 900	17KG
800		600 x 1500	18KG
1000		750 x 1600	24KG
1200		600 x 1800	22KG

HENGE RANGE			
WATTS	SHAPE	HEATER SIZE (mm)	Approx. HEATER WEIGHT
400		800 Diameter	11KG

DEVA



TINTAGEL



LAKES



HENGE



Funkyheat

SMART EFFICIENT HEATING



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Full product information, specifications, installation information and product videos are available at www.funkyheat.co.uk