

THE COMPLETE PRICE GUIDE



INFRARED HEATING PANELS



Domestic Heating



Commercial Heating



Church Heating

www.flexel.co.uk

Table of Contents

DOMESTIC INFRARED PANELS

| | |
|---|-------|
| ECOSUN UB - Universal heating panel | 8-9 |
| ECOSUN U+ - Universal heating panel - textured | 10-11 |
| ECOSUN E - Framed white heating panel | 12 |
| ECOSUN G - Framed glass heating panel | 13 |
| ECOSUN GS - Frameless glass heating panel | 14-15 |

COMMERCIAL INFRARED PANELS

| | |
|---|-------|
| ECOSUN C - Ceiling heating cassette | 18-19 |
| ECOSUN TH - High output space heater | 20-21 |
| ECOSUN S+ - High output space heater | 22-23 |
| ECOSUN PC - Pet cassette heater | 24 |

CHURCH HEATING

| | |
|---|----|
| ECOSUN CH - Pew heating panel | 26 |
| ECOSUN K+ - Pew heating panel | 27 |
| ECOFILM - Raised heated platform | 28 |

CONTROLS

| | |
|---|----|
| V22 - Wireless programmable thermostat | 29 |
| V24 - Central control system | 29 |
| E3521 - Manual analogue thermostat | 29 |
| E3545 - Tamperproof room thermostat | 29 |

NOTES

30-31



TRAINED PROFESSIONALS

Dedicated Sales & Technical Team -
Highly trained professionals on
hand to assist you.



OVERNIGHT DELIVERY

Fast and Efficient Delivery -
Usually the next working day.



EXCELLENT DISTRIBUTOR SUPPORT

We support our distributors -
Flexel do not sell to installers
or end customers, direct or on-line.



FREE QUOTE SERVICE

Call or email details and
we will design the ideal
system at no obligation.

Why choose Flexel?

Flexel International have been designing and manufacturing innovative electric infrared heating systems since 1978.

Our range of infrared heaters are suitable for both domestic and commercial applications. Our unique carbon impregnated glass cloth element provides excellent thermal efficiency and long life.



The core of our heating technology is in the carbon loaded resin used in the manufacture of our heating element. Continuous research and development has resulted in a thin-film heating element with a proven history of performance and longevity. Carbon heating element provides even heat distribution, damage toleration and a thermal efficiency significantly higher than cable or wire based products.

As part of the Fenix Group of companies, with production facilities in the UK and throughout Europe, we are one of the world's largest specialist manufacturers of infrared heating products.

What is Infrared heating?

Infrared is the most natural form of heating as it is a wavelength of our own Sun's rays.

It is also a highly efficient method of heating. Infrared heats the occupants and objects in the building rather than waste energy heating the air.

As an example, consider being in the Sun on a cold winter's day. You can feel the warmth of the Sun before the air is warm. The feeling of warmth is almost instantaneous - you can feel it as soon as the Sun emerges from behind a cloud.

This natural form of heat transfer provides the healthiest and most efficient way to heat people.



Infrared vs Convection Heating

Traditional central heating systems work by air passing over warm water radiators. This creates warm air currents, as warm air rises and cold air falls due to differences in their density.

This creates a temperature differential in the room, with the ceiling space being heated first.



By contrast, infrared heat is the most efficient form of heat distribution available. The people and fabric in the room are heated first and then gently warm the surrounding air. This means the air temperature can be lowered while maintaining comfort levels, resulting in a reduction in energy bills.

Infrared heating does not cause air circulation, meaning there are no drafts created. Dust is not circulated in the room, which makes the environment easier to clean and more comfortable for allergy sufferers.

Designed for Living

Infrared heating systems, in the form of wall or ceiling mounting panels, will become an elegant and decorative part of any home's furniture.

- Minimal air movement minimises dust circulation
- Hygenic and discrete
- Energy efficient and cost effective
- No moving parts means no maintenance
- Simple installation process
- Available in a wide range of sizes and colours

Carbon Heating

Carbon heating elements from Flexel are durable and efficient - the heart of many of our infrared heating systems.

- Durable: Unlike wire based heating elements carbon elements do not fail due to small local failures.
- Uniform heat distribution
- Highly efficient: over 99% of electrical energy is converted to heat
- Keeps the same efficiency at any temperature

Electricity - The Fuel Of The Future

Electric power is the future for heating. Dwindling supplies of North Sea gas, the uncertainty of imported gas supplies, the volatility of oil prices and the commitment to reduce the UK's carbon footprint all point towards electricity as the fuel of the future.

The country is moving towards a low carbon future, with electricity to be generated by nuclear power and sustainable sources. Electric heating is 100% efficient and carbon neutral at the point of use.

Electric heating systems are compatible with microgeneration technologies. As more low carbon and renewable sources become available, we will increasingly see electric heating favoured over gas.

Choose the right Infrared Heating Panel

Flexel International provide infrared heating panels to suit all needs. Choose from the options below to find the ideal infrared heating panel.

TEXTURED

A textured heating panel increases the surface area of the panel, which results in more efficient heat emission.

MIRRORED

A mirrored finish looks particularly stylish in a living room, bedroom or bathroom.

SMOOTH

A smooth surface gives the heating panel a discrete, classic appearance, that will enhance the decor of any room.

FRAMED

Accentuate the appearance of a infrared heating panel by adding a frame.

Any home or business can benefit from the cost effective, efficient heating provided by infrared panels. The range of options available mean they will also enhance the appearance of any premises.

Flexel Infrared Panels Design Service

At Flexel, we understand you may have many different requirements from an infrared heating panel. It may be intended to become a focal point of the room, or it may be intended to provide discrete, near invisible heat.

Our designers are on hand to ensure these requirements are met. Simply call 01592 760 928 or email sales@flexel.co.uk and we will ensure your infrared panels are placed where they will be most effective, improving efficiency and cutting energy costs.

We are also here to answer any questions you may have about the installation and operation of infrared heating panels, so you can enjoy an energy efficient, sustainable electric heating solution.



Flexel designers are on hand now

- Unrivalled pre- and post - sale support
- Complementary quotes and design service
- Technical help, including installation support
- A range of radiant panels to suit any home or business

We are one of the largest infrared heating manufacturers and suppliers in the world. At Flexel, we have the experience you can rely on to help create the infrared heating system that meets all your needs.

Call Flexel today on 01592 760 928 or email sales@flexel.co.uk for any advice about infrared heating panels will be most effective, improving efficiency and cutting energy costs.

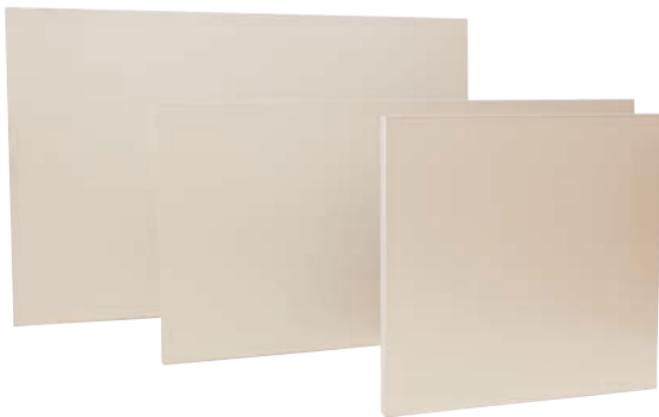
We are also here to answer any questions you may have about the installation and operation of infrared heating panels, so you can enjoy an energy efficient, sustainable electric heating solution.

For any technical advice, quotes or post-sale support, call Flexel on 01592 760 928 or email sales@flexel.co.uk

DOMESTIC INFRARED PANELS

Energy efficient
Cuts heating costs
Frees up floor space
Maintenance free
Suits any decor





ECOSUN UB is a universal infrared heating panel suitable for both wall and ceiling mounting.

The ECOSUN UB infrared panel combines high energy efficiency with an improved heating comfort when compared to other traditional heating systems.

Slimline and energy efficient, these heaters can be used as a complete heating system or as spot heaters for individual areas.

The UB range of slimline white panels are designed to compliment any environment and are equally appropriate in domestic, commercial and industrial applications.

Features

- The panel is manufactured from galvanised steel with a white polyester powder finish which provides a durable semi-smooth surface which is easy to clean.
- The rear of the panel is fully insulated to maximise infrared emissions from the front panel surface.
- Suitable for wall or ceiling mounting
- Ceiling mounting frame comes with the panel as standard

Technical Detail

- 1.0m heat resistant cable attached
- Thermal over-load protection
- Mounting heights for ceiling products : 2.5m min to 4.0m max
- Colour: White (RAL 9016)

Product Codes

| Product Code | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-----------------|---------------------|
| 300UB | 300 | 592x592x30 | 123.76 |
| 600UB | 600 | 1192x592x30 | 176.55 |
| 850UB | 850 | 1192x800x30 | 224.34 |



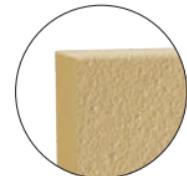
Ceiling mounted UB infrared panels



Wall mounted UB infrared heating panel



ECOSUN U+
universal infrared heating panel - textured



The ECOSUN U+ is a universal panel suitable for both wall and ceiling mounting.

The ECOSUN U+ infrared panel combines high energy efficiency with an improved heating comfort when compared to other traditional heating systems.

Slimline and energy efficient these heaters can be used as a complete heating system or as spot heaters for individual areas.

The U+ range of slimline textured panels is designed to compliment any environment and is equally appropriate in domestic, commercial and industrial applications.

The U+ panels have a special paint finish. The outer thermocrystal surface finish is based on quartz crystals – a slightly textured finish which significantly increases the surface area and its ability to emit heat. The surface area is 2.5 times greater than a smooth surface. This results in a high efficiency, low maintenance heater

The standard colour finish of the U+ panel is white. However there is a range of RAL colour options, as listed below, available to special order.

The installation flexibility makes them suitable for both new or refurbishment projects.

The 300 Watt heater directly replaces a 600mm x 600mm ceiling tile.

The 600 Watt heater replaces two 600mm x 600mm ceiling tiles.

Colours available to order (for an additional fee)

| | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | | | | | | | |
| 0840 | 0819 | 0750 | 0660 | 0650 | 0620 | 0610 | 0540 | 0530 | 0440 | 0250 | 0230 | 0220 | 0199 | 0111 | 0101 | 0240 |

Features

- The panel is manufactured from galvanised steel with a textured thermocrystal surface finish which provides a high emissivity surface.
- Basic Colour: White (RAL9016) .Colour options available.
- Suitable for wall or ceiling mounting
- Ceiling mounting frame comes with the panel as standard
- Localised heating – only warm the area required e.g. work space areas
- Suspended or ceiling mounted. ECOSUN U+ panels provide total usage of floor and wall space and reduce the risk of accidental damage or vandalism.
- Higher ventilation and air extraction rates do not significantly affect the radiant performance which primarily warms the fabric of the heated area.
- Gentle infrared heat results in improved comfort conditions at lower inside ambient temperatures providing comfort at lower running costs.



The 300U+ panel

Technical Detail

- 1.0m heat resistant cable attached
- Thermal over-load protection
- Mounting height for ceiling installation: 2.5m min to 4.0m max
- Fully insulated panel to optimise performance and minimise heat losses through the rear panel surface.
- Fits into standard "T" bar suspended ceiling
- Standard finish: White textured finish.

Product Codes

| Product Code | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-----------------|------------------|
| 300U+ | 300 | 592 x 592 x 30 | 134.11 |
| 600U+ | 600 | 1192 x 592 x 30 | 196.17 |
| 850U+ | 850 | 1192 x 800 x 30 | 236.11 |



Wall mounted U+ infrared heating panel



Ceiling mounted U+ infrared heating panels



The ECOSUN E is a framed metal infrared panel suitable for both wall and ceiling mounting.

The white metal emitter panel has a perimeter frame in anodised aluminium with a matt silver finish which is both modern and elegant.

The infrared panel is suitable for both domestic and commercial applications.



Features

- Aluminium framed design
- White semi-smooth finish
- Suitable for wall and ceiling mounting
- 300W, 600W, 850W outputs

Technical Detail

- White polyester powder coated steel radiating surface
- Aluminium frame with mounting brackets
- 1.9m power cable
- Perimeter frame in anodised aluminium with matt silver finish
- Voltage 230V, 50Hz

Product Codes

| Product Code | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-----------------|------------------|
| E300 | 300 | 600 x 600 x 30 | 153.52 |
| E600 | 600 | 1200 x 600 x 30 | 206.80 |
| E850 | 850 | 1200 x 800 x 30 | 260.00 |



The ECOSUN G far infrared heating panel provides gentle, natural warmth. Whether it is for primary or complementary heating, the ECOSUN G provides cost effective and efficient heat. The panels are suitable for both home and office environments and provide improved energy efficiency when compared to traditional central heating. The glass infrared panel is suitable for both wall and ceiling mounting. The panel includes an anodised aluminium perimeter frame, which gives the panel a modern and elegant appearance which will improve the aesthetics of any home or office.

Features

- Aluminium framed design
- Safety glass panel
- White, black and mirror finishes
- Suitable for wall or ceiling mounting
- Available in 300W, 600W and 850W outputs



Technical Detail

- Safety glass emitting surface
- Aluminium frame with rear mounting brackets
- 1.9 m power cable
- Anodised aluminium frame with matt silver finish
- Voltage 230V, 50Hz



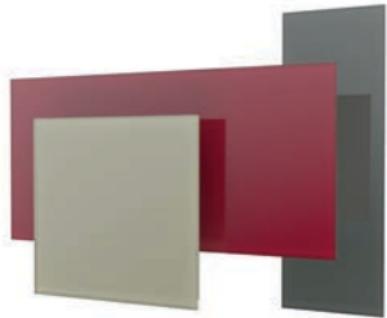
Product Codes

| Product Code | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-----------------|---------------------|
| G300 White | 300 | 600 x 600 x 30 | 190.00 |
| G600 White | 600 | 1200 x 600 x 30 | 285.00 |
| G850 White | 850 | 1200 x 800 x 30 | 399.00 |
| G300 Black | 300 | 600 x 600 x 30 | 190.00 |
| G600 Black | 600 | 1200 x 600 x 30 | 285.00 |
| G850 Black | 850 | 1200 x 800 x 30 | 399.00 |
| G300 Mirror | 300 | 600 x 600 x 40 | 220.00 |
| G600 Mirror | 600 | 1200 x 600 x 40 | 365.00 |



ECOSUN GS

frameless glass infrared heating panel



The ECOSUN GS is an elegant glass heating panel, suitable for both wall and ceiling mounting.

The frameless design means the panel is both modern and elegant. It is ideal for both domestic and commercial applications.

The front emitting surface is made of 4mm safety glass (6mm in the mirror effect panel), available in a range of finishes to compliment any interior.

For ceiling mounting, a mounting frame is included to provide additional support.

Features

- Frameless design
- 4mm safety glass, 6mm for mirror effect
- Available in a range of colours and mirror effect

Technical Detail

- Emitting surface 4mm safety glass (6mm in mirror effect)
- Rear: aluminium frame with mounting brackets

Product Codes

| Product Code | Colour | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|---|-----------|-----------------|------------------|
| GS300 | Black; White; Beige; Graphite; Platinum; Wine Red | 300 | 585 x 585 x 39 | 205.00 |
| GS500 | Black; White; Beige; Graphite; Platinum; Wine Red | 500 | 1200 x 400 x 39 | 270.00 |
| GS600 | Black; White; Beige; Graphite; Platinum; Wine Red | 600 | 1185 x 585 x 39 | 280.00 |
| GS850 | Black; White | 850 | 1185 x 785 x 39 | 420.00 |
| GS300 | Mirror | 300 | 585 x 585 x 41 | 220.00 |
| GS500 | Mirror | 500 | 1200 x 400 x 39 | 325.00 |
| GS600 | Mirror | 600 | 1185 x 585 x 41 | 350.00 |

Stainless Steel Towel Rail

For GS panels

Designed to fit the GS glass radiators, the towel rails are suitable for vertical wall mounted radiators in bathroom applications. They are available as a single or double towel rail. The rails are made from stainless steel.

Product Codes

| Product Code | Description | Price (£) ex VAT |
|--------------|------------------------------|------------------|
| GS-STR300 | Single Towel Rail for GS300 | 70.00 |
| GS-DTR300 | Double Towel Rails for GS300 | 140.00 |
| GS-STR500 | Single Towel Rail for GS500 | 70.00 |
| GS-DTR500 | Double Towel Rails for GS500 | 140.00 |
| GS-STR600 | Single Towel Rail for GS600 | 70.00 |
| GS-DTR600 | Double Towel Rails for GS600 | 140.00 |





COMMERCIAL PANELS

Easy installation

Heat exactly where it's needed

Cut running costs

Free up floor space

Ideal for offices, factories and more



ECOSUN C infrared heating ceiling cassettes provide cost effective, discrete and efficient comfort as either primary or complimentary heating in localised and hard to heat areas.

Designed specifically for easy installation into a suspended ceiling grid, the 300W panel directly replaces one 600mm x 600mm ceiling tile. The 600W panel replaces two 600mm x 600mm ceiling tiles.

Cassettes are also supplied with a mounting bracket for easy installation onto conventional ceilings.

Cassettes are maintenance free, easy to clean with a semi-smooth white finish. For added safety they come complete with a built in thermal cut-out and can easily be controlled using the Flexel range of air sensing thermostats.

Typical applications are offices, shops, trade counters, reception areas and localised spot heating at work benches.

Technical Detail

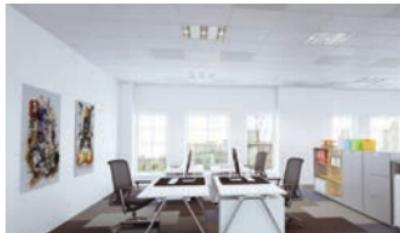
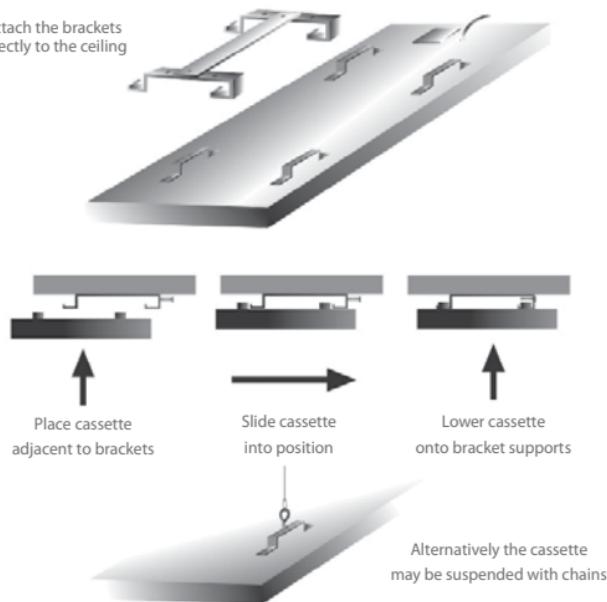
- 22 gauge galvanised steel radiating surface with white powder coated finish
- Carbon impregnated glass cloth heating element for excellent heat distribution and long life
- Mounting height 2.4m min - 4.0m max
- Mounting bracket included
- Can be suspended with chains
- Available in 300W and 600W outputs
- Thermal overload protection set at 130°C

Features

- Fully insulated panel to optimise performance and minimise heat losses
- Easy to clean semi smooth white finish
- Fits into standard "T" bar suspended ceiling
- 1.5m heat resistant cable
- Thermal overload protection

Ceiling Installation

Attach the brackets directly to the ceiling



ECOSUN C cassettes in an office ceiling



Close up of the ECOSUN C placed in the ceiling grid



The easy to clean ECOSUN C is ideal for medical applications, like this dental surgery

Product Codes

| Product Code | Wattage | Dimensions | Price ex VAT (£) |
|--------------|---------|-------------------|------------------|
| 3C-300 | 300 | 595 x 595 x 25mm | 125.00 |
| 6C-600 | 600 | 1195 x 595 x 25mm | 165.00 |



The ECOSUN TH is a no glare, medium wavelength, infrared heater. Constructed from powder coated black profile, its modern clean and elegant design allows it to be easily fitted in a multitude of domestic or commercial environments where heat is required without the glare.

Ideal for enclosed terraces, conservatories, reception areas, churches, cafes, restaurants, shops, zoos and many more.

Features

- Cost effective and efficient.
- Infrared heat can be directed onto seating areas and does not waste heat in a 360° circle like other heating options.
- Easy installation: electrical installation (230V) with mounting brackets.
- Clean modern design and the option of ceiling or wall mounting help the heater blend seamlessly into the surrounding environment.
- Zero light output is ideal for indoor applications where the light emitted from a conventional shortwave patio heater would be undesirable or intrusive.
- Tiltable brackets - with large field of effect.
- Available in 1000 Watt and 1500 Watt versions.

Technical

- Min. installation height is 1.8m above the floor (lower edge of panel)
- For ceiling installation there must be a min. gap of 30cm between the ceiling and the upper edge of the panel
- 2m heat resistant cable attached
- Protection: Cable gland to IP44

Product Codes

| Product Code | Watts (W) | Voltage (V) | Dimensions (mm) | Weight (Kg) | Price (£) ex VAT |
|--------------|-----------|-------------|-----------------|-------------|------------------|
| TH1000 | 1000 | 230 | 1080x140x45 | 3.2 | 188.49 |
| TH1500 | 1500 | 230 | 1580x140x45 | 4.4 | 220.77 |



Accessories

| Product Code | Description | Price (£) ex VAT |
|--------------|---------------------------------|---------------------|
| TH1000GR | Protective grill for the TH1000 | 48.18 |
| TH1500GR | Protective grill for the TH1500 | 64.61 |
| TH HINGE | Two-leaf hinge bracket | 48.81 |
| TH BRACKET | Three leaf group bracket | 57.48 |



Optional Control Accessories

The combination of the V23 wireless receiver unit and V20 remote control handset provides wireless control of ECOSUN TH. The V20 handset is equipped with an on/off button plus a 2 hour “timer” function - the appliance will turn itself off automatically after 2 hours.



Product Codes

| Product Code | Description | Voltage | Price (£) ex VAT |
|--------------|------------------------|-------------|---------------------|
| V23 | Wireless Receiver Unit | 230V | 66.95 |
| V20 | Remote Control Handset | 2xAAA, 1.5V | 34.51 |



The versatile space heating solution
ECOSUN S+
high output space heater



Ecosun Infrared Panels are an ideal way of providing thermal comfort in commercial and industrial buildings. They are specifically designed for high level mounting. They can be horizontally ceiling mounted with an auxiliary frame or suspended on drop rods or chains. They are only 60mm deep and typical applications include large volume spaces where conventional warm air convection heating systems would be uneconomic. These include; Supermarkets, Gymnasiums, Showrooms, Factories and Warehouses.

Features

Ecosun infrared panels offer many advantages over conventional warm air heating systems. These include:

- Localised Heating - only warm the area required e.g. work stations
- Suspended or ceiling mounted. Ecosun panels provide totally usable floor & wall space and reduce the risk of damage or vandalism.
- Higher ventilation and air extract rates do not significantly effect the radiant performance of Ecosun panels which primarily warm the fabric of the heated area.
- Gentle infrared heat results in improved comfort conditions at lower inside ambient temperature providing comfort conditions at lower running costs.
- Infrared heating does not cause air convection currents, therefore minimising dust movement and providing a clean draft free environment.
- Ecosun panels are constructed using a rod heating element encapsulated within a special aluminium extrusion profile. The surface area of the aluminium profile is treated with a silicating process which substantially increases its surface area and its ability to emit heat. The result is a high efficiency, low maintenance heater suitable for commercial and industrial environments.



Technical Information

- Attractive powder coated casing (RAL9010 off white) & grey radiating faceplate.
- Fully insulated galvanised casing with class 0 foil backed 25mm thick insulation
- Ceiling mounting frame included in installation kit
- Heating panel surface temperature - approx 350°C
- Protection: Class1, IP x 4, Cable gland to IP44
- Thermo crystal high emissivity heating panel
- Recommended mounting heights: Full heating; 5m - 8m, localised spot heating; 3.5m - 4.5m

Installation

Due to the high power outputs Ecosun Infrared Panels must be installed the following minimum distances from:

- Radiant surfaces (up to 260°C) 1.0m
- Back side of panel 10cm
- Minimum distance from wall 1.5m
- Minimum height from the floor 3.5m

Product Codes

| Product Code | Power (W) | Voltage (V) | Weight (Kg) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-------------|-------------|-----------------|------------------|
| ECOSUN S+ 09 | 900 | 230 | 8.15 | 1550x150x60 | 204.52 |
| ECOSUN S+ 12 | 1200 | | | 1550x150x60 | 214.73 |
| ECOSUN S+ 18 | 1800 | | 12.9 | 1550x250x60 | 295.94 |
| ECOSUN S+ 24 | 2400 | 230/400 | | 1550x250x60 | 310.73 |
| ECOSUN S+ 30 | 3000 | 2N | 17.7 | 1550x350x60 | 384.25 |
| ECOSUN S+ 36 | 3600 | | | 1550x350x60 | 403.47 |

Accessories

| Product Code | Description | Price (£) ex VAT |
|--------------|--------------------------------------|------------------|
| ECOSUN TB | Tiltable brackets for Ecosun S+ | 7.79 |
| ECOSUN G0912 | Protective grill for ECOSUN S+ 09-12 | 27.44 |
| ECOSUN G1824 | Protective grill for ECOSUN S+ 18-24 | 34.11 |
| ECOSUN G3036 | Protective grill for ECOSUN S+ 30-36 | 40.79 |



ECOSUN PC pet heating cassettes are a safe alternative to using IR lamps for kennels, catteries and general animal heating. They provide an even infrared heat that is maintained at a safe level by an internal thermostat, ensuring a gentle, efficient distribution of the warmth over a wide area.

The pet cassettes are suitable for use as a wall mounted heater or a ceiling mounted unit. If required they can be suspended by chains to the desired height. The standard finish is a hard wearing white smooth polyester powder coating that provides an easy, wipe clean surface. Fully enclosed, frost resistant and IP44 rated to protect against accidental splashes, they are ideal for animal enclosures and pets in general.

The pet cassette is provided with a conveniently placed red neon lamp to indicate when the unit is working. Pet cassettes are not designed as room heaters. Rather, they are a low power consumption, low running cost, local heat source that keep animals warm in cooler weather.

The design has no exposed parts and an internal thermostat, that regulates the surface temperature of the panel rather than the room temperature, which makes them a safe choice for animal enclosures.

Features

- Low power consumption, low running costs
- Suitable for animal enclosures and pets in general
- Wall or ceiling mounting
- Regulated surface temperature
- Neon power indicator
- Available in 110W and 225W outputs

Product Codes

| Product Code | Power (W) | Dimensions | Price (£) ex VAT |
|--------------|-----------|---------------|------------------|
| ECOSUN PC1 | 110 | 380mm x 410mm | 90.00 |
| ECOSUN PC2 | 225 | 380mm x 790mm | 100.00 |

CHURCH HEATING

CHURCHES WITH FIXED PEWS

| | |
|-------------------------------|----|
| ECOSUN CH - Pew heating panel | 26 |
| ECOSUN K+ - Pew heating panel | 27 |

CHURCHES WITH REMOVABLE CHAIRS

| | |
|-------------------------------|----|
| ECOFILM - Heated raised floor | 28 |
|-------------------------------|----|

WALL OR CEILING HEATING

| | |
|--------------------------------------|-------|
| ECOSUN TH - High output space heater | 20-21 |
| ECOSUN S+ - High output space heater | 22-23 |



Heating a building with a large volume like a traditional church with a high atrium presents many challenges to overcome.

The high ceilings and large open spaces means that heating the air is extremely expensive.

In addition, to heat a poorly insulated and infrequently used building from cold to a comfortable air temperature would take a very long time and consume a great deal of energy.

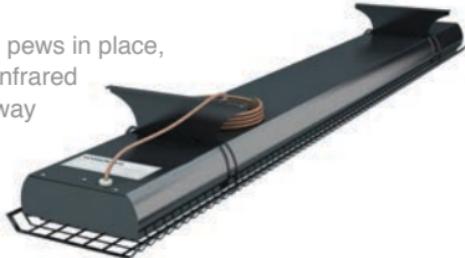
In many traditional churches it would not be permissible to fit heaters to walls or suspend them from the roof for aesthetic reasons. Any source of heat would also have to be silent and as unobtrusive as possible.

We have a variety of infrared heating solutions that could be considered for use in churches.

For new church buildings, where heaters can be fixed to the wall or ceiling, the ECOSUN TH (page 19-20) or the ECOSUN S+ (page 21-22) should be considered. Both options provide highly efficient infrared heating for large spaces.



Where the church has fixed pews in place, the ECOSUN CH range of infrared heating panels is the ideal way to provide a comfortable environment for the congregation.



The ECOSUN CH fits under the pews. Rather than wasting energy warming the air in the building, the infrared panels directly heat the people in the immediate vicinity.

The warmth is nearly instantaneous, so panels only need to be operated minutes before the congregation arrives to ensure a warm welcome.



Each pew heater can be operated independently. Only occupied pews need to be heated, keeping energy costs to a minimum.

Ecosun CH Panels are extremely unobtrusive. They are painted matt black and installed to the underside of the pew bench. Infrared heaters are silent and with no moving parts, require little maintenance.

ECOSUN CH panels should be installed horizontally with the supplied mounting brackets and cover grille.

Features

- Localised heating - only warm the area required
- Equipped with protective grilles to prevent direct contact with the heating surface
- Matt black finish
- Designed for horizontal mounting under pew benches

Product Codes

| Product Code | Power (W) | Voltage (V) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-------------|-----------------|------------------|
| ECOSUN CH02 | 260 | | 730x155x115 | 215.64 |
| ECOSUN CH04 | 400 | 230 | 1096x155x115 | 231.84 |
| ECOSUN CH06 | 600 | | 1596x155x115 | 259.20 |



The ECOSUN K+ is a great choice when heating a church which has fixed pews in place.

The infrared panel fits to the front panel of the pew, and heats the people in the immediate vicinity. Each panel can be operated independantly, keeping heating costs to a minimum. The heaters provide almost instantaneous heat, which means that the infrared panels can be switched on just minutes before the congregation arrive.



ECOSUN K+ panels are extremely unobtrusive. Painted dark brown and fitted to the front of a traditional pew, they are barely noticeable.

Infrared heaters like the ECOSUN K+ are completely silent. As there are no moving parts they require very little maintenance. For best results, the heaters should cover as much of the length of the pew as possible.

Features

- Localised heating, heat only the area required
- Maintenance free
- Lightweight for ease of installation
- 100W, 200W, 270W, 330W, 400W outputs
- Designed for mounting on the front of pews

Technical Detail

- Zinc coated steel radiating surface
- Fully insulated rear panel
- 1.9m power cable
- Voltage: 230V, 50Hz
- Colour: Brown (0240)



Product Codes

| Product Code | Power (W) | Dimensions (mm) | Price (£) ex VAT |
|--------------|-----------|-----------------|------------------|
| ECOSUN 100K+ | 100 | 500 x 320 x 30 | 90.00 |
| ECOSUN 200K+ | 200 | 750 x 320 x 30 | 104.40 |
| ECOSUN 270K+ | 270 | 1000 x 320 x 30 | 120.98 |
| ECOSUN 330K+ | 330 | 1250 x 320 x 30 | 137.18 |
| ECOSUN 400K+ | 400 | 1500 x 320 x 30 | 154.80 |

For installation on a ceiling it is necessary to order a ceiling frame



The problem of heating is always delicate in places of worship.

It is particularly difficult when they are classified as historic buildings.



One solution is to install a raised heated platform. This removable structure does not affect the original floor covering, but can provide a modern, invisible infrared heating system which integrates into the historic environment.

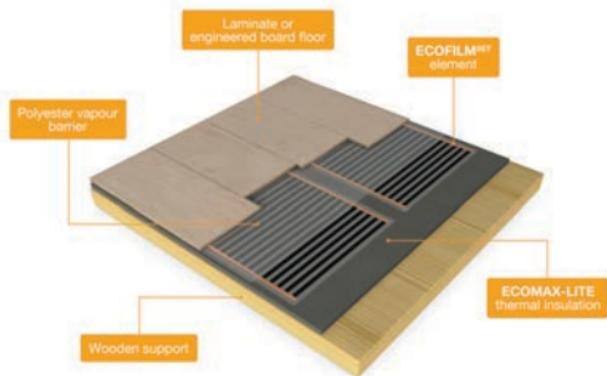
The Ecofilm heating platform, consists of a raised insulated floor platform, an ultra-thin heating element and the choice of floor coverings. This allows sympathetic integration in the environment while ensuring the comfort of its users.

Using this low temperature, large surface area, floor heating technique, the Ecofilm heated platform produces a smooth and uniform heat in the occupied area.

The Ecofilm raised heated platform is particularly effective in places of worship. Rather than warming the whole volume of air in the building, the heated floor warms the people and objects in the immediate vicinity, keeping running costs to a minimum.

Features

- Localised heating - heat only the area required
- Maintenance free
- Flexible - custom built to the environment
- Completely silent operation
- Energy efficient
- Integrates with the original historic floor



CONTROLS

Ecosun infrared heating panels can simply be plugged in. They are not fitted with built in controls. Use of the latest controls can substantially reduce the energy consumption in buildings. The lower consumption and increased energy efficiency significantly reduces operating costs without sacrificing comfort.

Products and systems from Flexel are designed to provide ideal climate conditions, in any living space or work environment, with the lowest possible energy consumption.

Flexel V22 Single Zone Heater Control Pack

The V22 control pack is designed to provide time and temperature control of a room or single zone. The pack comprises a V22 wireless 7 day programmable thermostat and a V23(16A) wireless receiver. It is ideal for use in renovation projects where it is impractical to run wires from the thermostat to the heater panels being controlled. The V22 can control up to 4 x V23 switching units (1 x master and 3 x slaves) for larger zones.



| Product Code | Description | Price (£) ex VAT |
|--------------|--|------------------|
| V22 | Wireless programmable room thermostat | 66.95 |
| V23 | Wireless receiver/switching unit (16A) | 66.95 |

V24 Central Control System

The V24 is a central control panel that links with V22 single zone control packs to provide convenient control of your whole house from a central location. The V24 comprises a colour touchscreen panel that wirelessly communicates with V22 thermostats throughout the home. This is a multi-zone controller that is fully scalable up to 24 zones. The V24 WiFi provides the same functions as the V24 central controller but with the ability to be controlled from your Smart Phone, using the intuitive iOS or Android App.



| Product Code | Description | Price (£) ex VAT |
|--------------|---------------------------------------|------------------|
| V24 | Wireless programmable room thermostat | 140.08 |
| V24 WiFi | WiFi enabled central control unit | 272.95 |

E3521 Manual Thermostat

For simple control of infrared heating panels in commercial applications. Bimetal technology with heat anticipator for high precision.



| Product Code | Description | Price (£) ex VAT |
|--------------|-------------------------|------------------|
| E3521 | Manual thermostat (16A) | 28.84 |

E3545 Tamper Resistant Thermostat

For simple tamperproof control of infrared heating panels in commercial applications. Bimetal technology with heat anticipator for high precision.



| Product Code | Description | Price (£) ex VAT |
|--------------|-----------------------------------|------------------|
| E3545 | Tamperproof thermostat (16A) SPST | 43.00 |

NOTES

NOTES



Authorised Distributor

Flexel Infrared Heating Systems
is a product range by
Flexel International Ltd,
Telford Road, Glenrothes, Fife, KY7 4NX, UK

Tel: 01592 760928 Fax: 01592 760929

Web: www.flexel.co.uk

Email: sales@flexel.co.uk