



# **ELECTRIC HEATING SOLUTIONS FOR CHURCHES**



**A COMMITMENT  
TO EXCELLENCE  
FROM START TO  
FINISH.**

At ARC we do more than supply high-quality heating solutions, we build lasting partnerships. From the initial consultation to installation and aftersales support, we work alongside our customers and carefully selected installation partners every step of the way. We understand that choosing the right heating system is a life-style choice and long-term investment, which is why we only offer products that deliver outstanding comfort, performance, energy efficiency and durability.

Our solutions are built to last, engineered with precision, and designed to perform in even the most demanding environments. Our long-term partnership with leading manufacturers like ETHERMA ensures we know their products as if they were our own which means we are 100% confident they meet the high standards we expect, because we don't compromise on quality, and neither should you.

More than just a supplier, we're your partner in comfort and efficiency, providing expert guidance, seamless installation, and dedicated aftersales support. When you choose ARC, you're choosing reliability, expertise, and a commitment to working together from start to finish.



## HEATING CHURCHES IS A CHALLENGE

Churches can be vast, draughty buildings - often with centuries of history - where traditional boilers and convection heaters struggle to deliver comfort. At the same time, budgets are limited, energy prices are rising, and dioceses are under pressure to meet Net Zero 2030 targets. This follows the Church of England's General Synod setting its own net zero carbon target back in February 2020. The first stage of this target covers energy used by churches, cathedrals, schools, vicarages, other church buildings.

As one of the UK's leading infrared heating specialists, we have ARCangel; the most comprehensive range of heating solutions specifically for churches.

## WHY TRADITIONAL CHURCH HEATING SYSTEMS FAIL

Churches are often beautiful, complex, and energy-intensive buildings to heat.

High ceilings, draughty doors, and irregular use mean traditional ambient heating systems are costly and inefficient to run.

Infrared heating offers an unobtrusive, cost-effective and direct way to keep congregations comfortable while respecting architectural integrity.



### High ceilings waste energy

The warm air from a convection system rises up towards the ceiling, above the occupied zone where it is needed.



### Heritage risks

Radiators and blown air systems can damage plaster, wood, and stone by heating too fast.



### Costly to run

Gas and oil boilers are inefficient and expensive to maintain.



### Poor thermal comfort

Traditional convection systems do not provide an even heat distribution, leading to 'cold spots'



### Inflexible

Heating the whole church, even when only a small area is in use.



Old wiring or building fabric can limit installation options

## WHY INFRARED HEATING IS A BETTER OPTION FOR CHURCHES

Infrared warms congregations and churches directly, not the air. It is better than traditional convection systems because:

### Gentle Radiant Heat

Protects the fabric of heritage buildings.

### Zoning & control

Heat only the pews, chapels, vestries, or offices in use

### Fast response

No need to preheat hours in advance

### Sustainable

Electric, low-maintenance, and compatible with Solar PV and renewable energy tariffs

### Comfortable

Congregations feel the warmer than the air around them due to the direct heating effect of the infrared

## THE ARC THERMAL SOLUTIONS APPROACH

Our commercial focus is on delivering heating solutions that work effectively in the real world of church buildings.

This means prioritizing:



**Adequate power delivery to achieve genuine comfort**



**Practical installation that respects both budget and building**



**Long-term reliability with accessible maintenance**



**Aesthetic sensitivity that enhances rather than clutters**



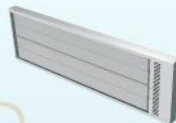
## INTRODUCING ARCANGEL

ARCAngel offers the largest range of infrared and electric heating products specifically curated for churches.

The ARCAngel product range brings together eleven hero products, with church requirements in mind. Our different products mean we can specify the most appropriate and cost-effective technologies to achieve immediate and long-term carbon reduction goals.



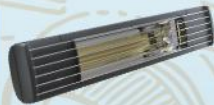
**VIGILANCE**



**EEZ**



**SOLACE**



**EXO DARK**



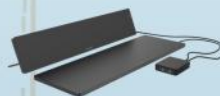
**SOLAMAGIC**



**LAVA BASIC 3.0**



**FOUNDATION**



**LAVA DESK ZONE**



**SERENITY**



**FIRE + ICE**



**DUO PLUS S2**

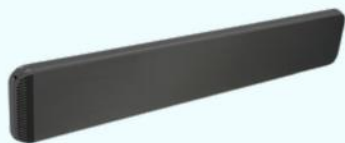


**SMART CONTROLS**

 **ARC** **ANGEL**  
VIGILANCE



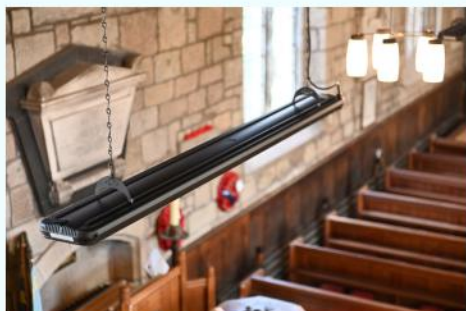




## Stylish and powerful medium wave infrared heater with no visible light

Vigilance is a powerful medium-wave infrared heater which combines both comfort and high performance. With a stylish design in black anodised aluminum, it is ideal for elegant environments like shopping centers, atriums and exhibition halls, but it also blends well in sensitive environments such as historic buildings, churches and listed buildings.

Vigilance provides a pleasant infrared heat without emitting any visible light, making it very discreet even when turned on. This heater is generally used indoors, although it does have an application outdoors in sheltered/wind-protected areas.



### ✓ Stylish design

Unique anodised aluminium design with black finish.

### ✓ Dark emitter

Does not produce any visible light

### ✓ Installation

Ceiling installation using the mounting brackets provided. Wall mounting is possible, but not recommended due to reduced efficiency. Extension brackets and twin brackets (to mount two heaters side-by-side) are available as an accessory.

### ✓ Application

Suitable for indoor use and outdoor use only in wind-protected areas.

### ✓ Ecodesign

in order to fulfil the requirements of Ecodesign, Regulation (EU) 2015/1188, the device must be installed with control system FC or thermostat TAP16R/TPT16(WF) when used indoors.

### ✓ High protection class

IP55.

### ✓ Installation height

2.5m to 15m

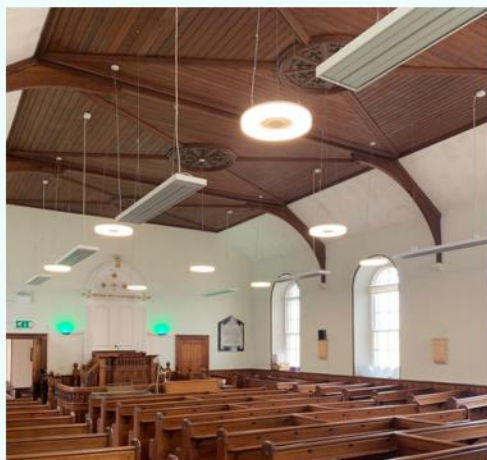
## ETHERMA EEZ Medium-Wave Infrared Heater

EZ radiant ceiling heaters provide efficient, comfortable warmth for large or high-ceilinged environments such as churches, department stores, and industrial halls. Designed for both complete and supplementary heating, they are especially effective at reducing cold draughts from large windows or doorways - a common challenge in traditional church buildings.

By emitting gentle, even heat across a defined area, EEZ panels allow you to create distinct comfort zones - such as seating areas, choir sections, or entrances - without the need to heat the entire volume of air. This makes them ideal for large, intermittently used spaces where consistent comfort and low running costs are key.

Because EEZ panels operate silently and without moving air, they promote a hygienic indoor environment by reducing dust and bacteria circulation - an important consideration for heritage spaces where air quality and preservation matter. Their discreet white RAL 9016 finish blends neatly into most ceilings, maintaining the architectural integrity of the space.

**ETHERMA°**  
INGENIOUS HEATING



### Housing

White RAL 9016 with galvanized steel panel (EEZ-3600)



### Protection Class

IP44 (suitable for indoor zones with occasional moisture)



### Surface Temperature

Up to 290 °C  
(efficient radiant output)



### Installation height

2.5m – 4.0m



### Certification:

CE compliant







Typ: 18070402 Nr.: 0101  
200 W AC 1  
200 V  
Anschlussspannung max. 2000 W  
Anschlussspannung max. 2000 W





### Stylish infrared pew heater with low element temperature

Solace pew heaters are long-wave infrared dark emitters (zero light emission) used to provide localised heating for churchgoers when sitting in the pews. The warmth is emitted almost exclusively to the front of the heater through special ventilation slots.

This product is particularly suitable for churches that are used intermittently throughout the week. This product is used extensively across Europe and has been installed in over 500 churches.

The electrical connection is via factory-made wiring with plug-and-play connectors designed to simplify the installation process. The infrared pew heaters have a special unbreakable heating element and an integrated overheating protection device with automatic reset function.

**THIS ITEM IS MANUFACTURED TO ORDER AND MAY NOT BE RETURNED. PRICE ON REQUEST.**



#### Stylish design

Galvanised sheet steel housing in clay brow (RAL 8003) to blend seamlessly with the church pews



#### Durable infrared dark emitter

Does not produce any visible light, a special unbreakable heating element with high radiation radiating capacity generates mild radiant heat



#### Installation

Installation Designed for horizontal installation on two mounting brackets under the seats of the pews



#### Application

Direct personal heating device suitable for use in dry indoor areas



#### Ecodesign

In order to fulfil the requirements of Ecodesign, Regulation (EU) 2015/1188, the device must be installed with a compliant control system.

**SCAN QR TO LEARN  
HOW QUICKLY  
SOLACE WARMS UP**



### Comfort Where It Matters Most.

The ARC Angel SERENITY bench pad warmers provide discreet, gentle warmth directly to seating areas in churches and heritage buildings. Designed specifically for pews and other fixed seating, these custom-made pads deliver comfortable, even heat without affecting the building's fabric or appearance.

Each pad is manufactured to the exact dimensions of the pew, ensuring a perfect fit - even around architectural details such as pillars or curved ends.

The multi-layered construction, with a durable felt surface and embedded heating foil, offers efficient radiant warmth while remaining soft, safe, and unobtrusive.

SERENITY pads are ideal for use in dry indoor spaces, creating a welcoming environment for services and events while keeping energy use to a minimum.



#### Voltage

AC 230 V



#### Output

30w – 400 W (approx. 60 W/m)



#### Material

Multi-layered with vinyl top, embedded heating foil, and needle-felt cover



#### Protection

Class II (insulated), IP41 (splash-proof)



#### Cable

1 m connection cable (H03VV-F 2x0.75 mm<sup>2</sup>)



## Discreet Warmth. Designed for Sacred Spaces.



The ARC Angel FOUNDATION floor heating mats bring quiet, even warmth to key church areas without air movement, noise, or dust disturbance. Designed specifically for heritage and sacred spaces, these custom-made mats are laid directly onto wooden, stone, or carpeted floors to provide comfortable, efficient heat exactly where it's needed.

Ideal for use around the altar, in confessionals, choir stalls, organ areas or serving spaces, FOUNDATION mats deliver gentle underfoot warmth that enhances comfort while preserving the architectural integrity of the church.

Their slim, durable, multi-layered design ensures rapid, reliable heat-up times and long-lasting performance with minimal maintenance.



### Voltage

AC 230 V



### Output

120 – 1300 W



### Material

Multi-layered insulating construction with heating foil and PVC cover



### Colours

Beige or grey



### Size

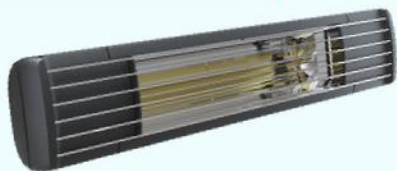
Widths 28–200 cm; custom lengths available



### Protection

Class II (insulated), IP41 (splash-proof)





## ETHERMA EXO DARK

### Premium Infrared Dark Emitter for Churches and Heritage Buildings

The ETHERMA EXO DARK provides gentle, even warmth for churches and other large or hard-to-heat buildings. It can be used as a standalone heater in smaller chapels, vestries, or meeting rooms, or as part of a zoned system for larger spaces.

Its ultra-low-glare infrared tube delivers comfortable radiant warmth with minimal visible light - just 1 lux per kilowatt per square metre - preserving the calm atmosphere of worship areas.

Built from rust-free aluminium with a durable, discreet design and IP65 protection, it's made to perform reliably even in older or semi-heated environments.



#### Power Options

1300 W – 2000 W



#### Housing

Rust-free aluminium, dark anodised finish



#### Residual Light

~1 lux/kW/m<sup>2</sup> (ultra-low-glare)



#### Protection Class

IP65 (dust-tight and water-jet resistant)



#### Mounting Height

1.8m – 2.5 m



#### Certification

CE compliant

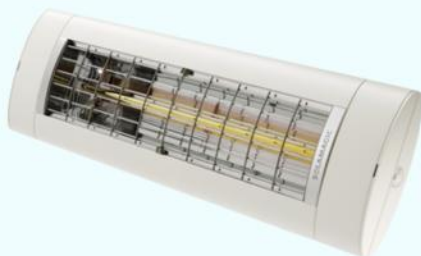




**SOLAMAGIC<sup>®</sup> D3****Customisable Premium 2000 W Dark Emitter  
for Churches and Indoor Spaces**

The SOLAMAGIC<sup>®</sup> D3 is a powerful 2000 W premium dark emitter, which can be custom coloured. Ideal for discreet, comfortable heating in churches, chapels, and other indoor or semi-sheltered spaces. It provides gentle, even warmth without visible light, making it perfect for worship areas, meeting rooms, or quiet reflection spaces where atmosphere matters.

With an optional 3-stage dimming module (33 % / 66 % / 100 %), the D3 offers flexible control to match comfort and energy needs throughout the day. Built to last and finished to a high standard, it's available in white, titanium, or nano anthracite, with custom RAL colours available on request to complement your interior.

**Power Options**

2000 W

**Control**

Optional 3-step dimming (33% / 66% / 100%)

**Finish**

White, titanium, nano anthracite, or custom RAL colour

**Use**

Indoor and sheltered areas (e.g. chapels, vestries, extensions)

**Certification**

CE compliant



## LAVA BASIC 3.0

### Built to Last. Certified to Perform.

The LAVA BASIC 3.0 is our most advanced infrared panel - combining elegant design with exceptional performance. Slim at just 48 mm thick, it delivers comfortable, even warmth through a specially developed high-emissivity coating that ensures outstanding efficiency and long service life.

Perfect for churches, chapels, and heritage spaces, the LAVA BASIC 3.0 can be wall-mounted, ceiling-mounted, or installed within a ceiling grid for a discreet finish that blends seamlessly with traditional or contemporary interiors. It can serve as a primary, supplementary, or zonal heating solution - offering flexibility for spaces that require warmth only where it's needed.

Silent, low-maintenance, and built from durable materials, the LAVA BASIC 3.0 provides reliable comfort without disturbing the character of your building.



### Output Range

200 – 1350 W (Covers everything from small chapels to larger zones, giving full design flexibility)



### Surface Temperature

Ceiling max 120 °C / Wall max 95 °C (Ensures efficient radiant output while remaining safe for occupied spaces.)



### Installation Options

Wall, ceiling, or ceiling grid (adapts easily to listed buildings and different architectural layouts)



### Panel Thickness

Only 48 mm (slim profile allows discreet, unobtrusive installation)



### Protection Rating

IP X4 / Class I (suitable for damp or unheated church environments)



**FIRE+ICE****The Innovative Heat Pump with Air Conditioning**

The FIRE+ICE is a compact, energy-efficient heat pump with integrated air conditioning - ideal for smaller church spaces such as vestries, offices, or meeting rooms up to 35 m<sup>2</sup>. Combining advanced heating and cooling in one unit, it delivers year-round comfort with impressive efficiency and quiet operation.

Designed as a monobloc system with no external unit, FIRE+ICE offers an elegant, low-impact solution for buildings where traditional installations aren't possible or desirable. It connects directly to a standard 230 V socket and requires only two 200 mm wall openings for airflow - meaning fast, straightforward installation without specialist refrigerant work.

With a COP of 3.28 and energy efficiency ratings of A for heating and A+ for cooling, the unit significantly reduces running costs compared to electric or oil-based systems. It includes all required installation components, a heated condensate hose, and a remote control for easy operation.

**Coverage:**Up to 35 m<sup>2</sup>**Efficiency**

COP 3.28 (A / A+ rated)

**Output:**3.05 / 4.85 kW heating,  
3.10 kW cooling**Installation**Monobloc – no external unit  
required**Voltage**

230 V

**Noise Level**

27–41 dB(A)



**ETHERMA DUO PLUS S2****Three Systems. One Smart Solution.**

The ETHERMA DUO PLUS S2 combines convection, infrared, and heat storage in a single, compact unit - delivering fast, efficient warmth for church meeting rooms, vestries, or offices. Its clever hybrid design provides both immediate infrared comfort and steady background heat, ensuring consistent temperature and low running costs.

With a sleek 12 mm stone front and integrated electronic controls, the DUO PLUS S2 offers precise temperature management and automatic energy-saving features, including open-window detection. It can also be paired with an external ecodesign-compliant thermostat if preferred.

Wall-mounted and space-saving, the DUO PLUS S2 is a practical replacement for older night-storage heaters and an ideal complement to infrared panels in multi-zone church heating schemes.

**Voltage:**

230 V

**Output**

1500 W / 2000 W

**Temperature Range**

5 – 30 °C (frost protection at 7 °C)

**Protection**

Class II / IP24 (splash-proof)

**Finish**

12 mm stone, white (similar to RAL 9003)





## LAVA DESK SUB

### Targeted Comfort. Smarter Efficiency.

The LAVA DESK SUB provides discreet, personal warmth beneath desks or workstations - perfect for church offices, vestries, or reception points such as the parapet.

Using advanced GRP (Glass Reinforced Plastic) technology, the panel delivers instant, gentle heat as soon as it's switched on. This allows the overall building temperature to be kept lower while keeping staff or volunteers warm exactly where they sit.

With four simple mounting options, it fits neatly under most desks, counters, or reading stations. Independent studies (TU Dresden) show potential energy savings of up to 30 %, with running costs as low as around £50 per year per workstation.

The in-line control offers three heat levels and a timer function, allowing users to adjust warmth to their preference.



#### Power

90 W



#### Voltage

230 V



#### Control

3 heat levels + timer (inline controller)



#### Mounting

4 flexible under-desk options



#### Depth

14 mm



#### Protection

IP21 / Class II



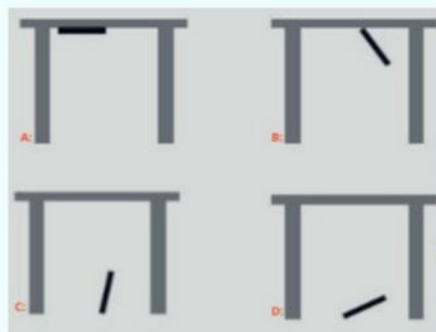
#### Colours

White (RAL 9016) or Black (RAL 9005)



#### Running Cost

Approximately 3 p per hour (based on £0.33 / kWh electricity rate)





## Preserving Heritage and Comfort at St Edmund's College

**Project Type**  
Chapel Complex

**Client**  
St Edmund's College & Prep School  
**Products Installed**  
ETHERMA EEZ-2000

### **St Edmund's College brings quiet, reliable warmth to a Grade I-listed chapel using discreet ETHERMA infrared heaters.**

St Edmund's College, one of England's oldest Catholic schools, needed an effective yet discreet heating solution for its Grade I-listed Galilee Chapel - a Gothic Revival space used for worship, exams, and music.

#### **The Challenge**

Aging quartz-ray and fan heaters were noisy and unreliable, disrupting services and proving costly to maintain. Traditional wet systems were ruled out due to the chapel's protected fabric and lack of pipework.

**"Fan heaters had to be switched off during Mass because of the noise... We needed something reliable and discreet."**

Stuart Winfield, Technical Projects Director



#### **The Solution**

ARC Thermal recommended ETHERMA EEZ-2000 infrared heaters -slimline, silent, and ideal for heritage environments. The ARC team provided full technical support and documentation to secure approval from the Westminster Diocese Historic Churches Committee.

**"ARC supported us throughout the approval process and provided everything needed to confirm infrared heating's minimal impact."**



## The Result

The heaters were installed strategically to provide even coverage without visual distraction. Their insulated rear surfaces protect the historic walls while radiating comfortable, natural warmth.

- Silent, glare-free operation
- Background 15 °C, rising to 21 °C within an hour
- No pipework or drilling required
- Low maintenance and long service life

**“The installation was well planned by Damian Deen - the team left the chapel spotless.”**

- Stuart Winfield

## Looking Ahead

Following the chapel's success, St Edmund's College now plans to extend infrared heating to other historic areas on site.



Would the chapel recommend us?

**“Yes, without hesitation - the process from survey to installation and commissioning was straightforward, and the units work extremely well.”**

- Stuart Winfield

## **We Hear These Questions All the Time**

Switching to a new heating system is a big decision for any parish. Here are answers to the most common questions we're asked about infrared heating for churches.

### **Does infrared work in draughty churches?**

Yes. Infrared heats people and surfaces directly, so warmth isn't lost into the air.

### **How quickly does it heat up?**

Infrared panels provide comfort within minutes, without long pre-heating times.

### **Is installation disruptive?**

No. Panels can be installed with minimal disruption - often onto existing electrical circuits.

### **Can it integrate with solar PV?**

Yes. Infrared is fully electric and works seamlessly with solar panels to reduce bills further.

### **Is it safe for old buildings?**

Yes. Infrared provides gentle radiant warmth that avoids damage to wood, stone, and artwork. Panels can be discreetly colour-matched.

### **What does it cost to run?**

Running costs are typically 20–40% lower than traditional systems, especially when zoning is used.

### **How long will it last?**

Panels last 20+ years with no annual servicing required.



# Sustainability & Solar Integration

## Responsible Comfort for the Next Generation

At ARC Thermal, we believe comfort and sustainability should go hand in hand. Our infrared heating systems provide long-lasting warmth with minimal energy use - helping churches reduce their carbon footprint without altering the character of their buildings.

## Efficient by Design

Infrared heating warms people and surfaces directly, rather than the air. This means faster comfort, lower running costs, and less wasted energy. With no moving parts or regular servicing, our panels offer exceptional longevity - a quiet, dependable investment for the future.

## Powered by the Sun

When combined with solar PV, infrared heating can make even greater use of renewable energy. During daylight hours, power generated on-site can supply much of the church's heating demand, significantly reducing electricity costs and reliance on the grid.



## Protecting Heritage, Supporting Mission

Because infrared systems require no pipework, radiators, or intrusive installation, they're ideal for listed and historic churches. Discreet, efficient, and sustainable, they allow each building to remain true to its heritage while preparing for a lower-carbon future.

# Warmth where it matters most.

Creating comfortable, peaceful spaces for  
worship and community.

[www.churchheating.co.uk](http://www.churchheating.co.uk)



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**Specialists in energy-efficient  
electric heating for churches and  
community buildings.**

