



**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

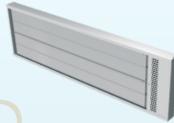
INTRODUCING ARCAngEL

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.



 **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

 **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.

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.



-  **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

ETHERMA[®]
INGENIOUS HEATING





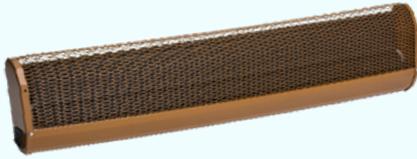
Stylish infrared pew heater with low element temperature

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

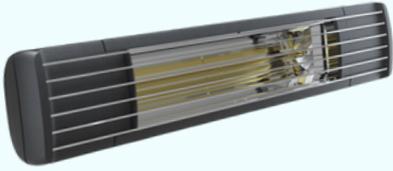


Ecodesign

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**





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/m² (ultra-low-glare)



Protection Class

IP65 (dust-tight and water-jet resistant)



Mounting Height

1.8m – 2.5 m



Certification

CE compliant



SOLAMAGIC® D3

Premium 2000 W Dark Emitter for Churches and Indoor Spaces

The SOLAMAGIC® D3 is a powerful 2000 W premium dark emitter, 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 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



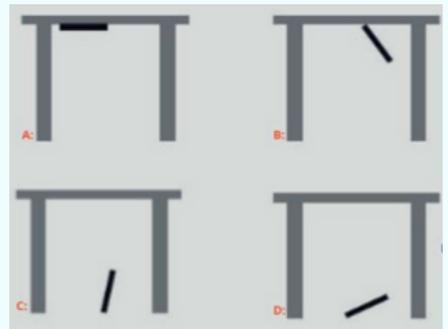
Colours

White (RAL 9016) or Black (RAL 9005)



Running Cost

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



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)





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 mm²)



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 m². 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 m²



Efficiency

COP 3.28 (A / A+ rated)



Output:

3.05 / 4.85 kW heating,
3.10 kW cooling



Installation

Monobloc – no external unit
required



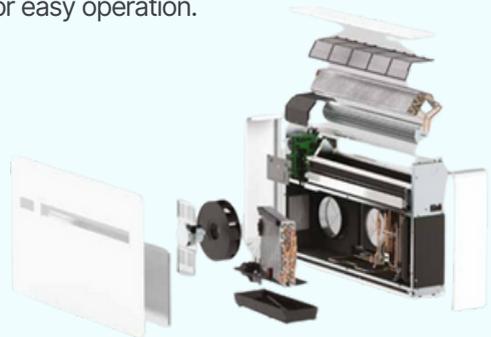
Voltage

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)

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

Infrared heating FAQs for churches - your top questions answered

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.

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.

How quickly does it heat up?

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

What does it cost to run?

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

Is installation disruptive?

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

How long will it last?

Panels last 20+ years with no annual servicing required.

Can it integrate with solar PV?

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

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.

FIND OUT MORE
www.churchheating.co.uk

