



# Energy Efficient Church Heating Solutions



BN Thermic is a family run company based at our factory in West Sussex. Over the years, we've worked on many successful church heating projects. This brochure is here to help you understand how we can support you in heating your church while working towards net zero.

At BN Thermic, we know that heating a traditional church efficiently—and sustainably—can be a real challenge. Churches are often tall, sporadically used, and poorly insulated. That makes conventional heating systems both inefficient and expensive to run.

That's why we've developed two simple but effective solutions: pew heaters and quartz halogen heaters. Instead of trying to heat the entire space, these systems warm people directly, providing comfort without the need for long and costly pre-heating.

We hope this brochure gives you useful insights and helps you find the best heating solution for your church.





Supporting churches on  
their journey to net zero

The Church of England has pledged that all churches will be net zero by 2030 — and now's the time to take action. Switching to direct electric heating is one of the simplest and most effective ways to cut your carbon footprint, remove on-site fossil fuels, and benefit from the UK's ever-greener electricity grid.

At BN Thermic, we're here to help every step of the way - from design advice and product selection to installation support. Together, we can make your church warm, welcoming, and on the path to net zero.



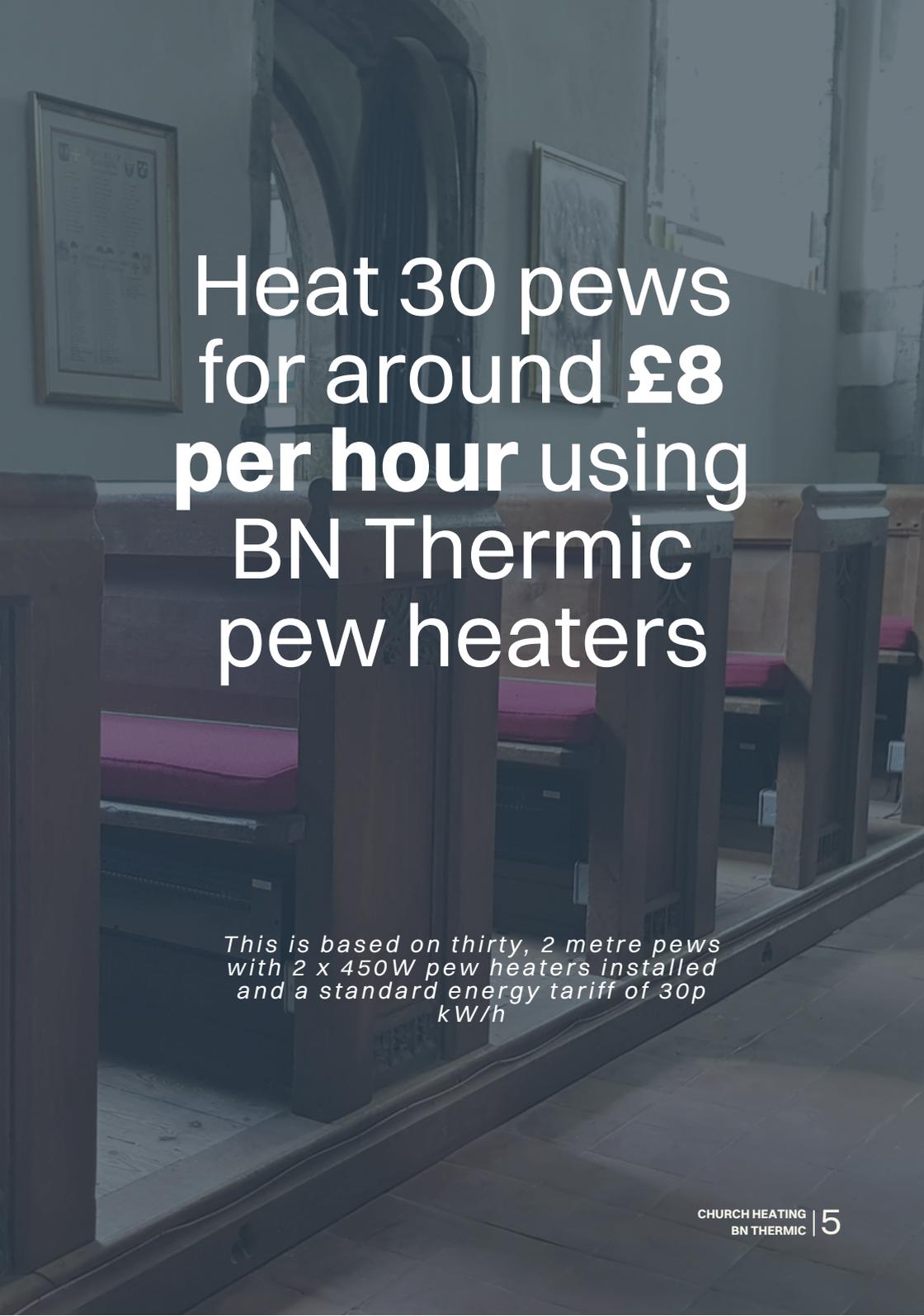
Pew heaters installed at St Peter & St Paul's Church, Bergh Apton, Norwich

## AN INTRODUCTION TO Under Pew Heaters

By Joe Bristow  
Technical Sales Manager  
BN Thermic

“Over the years, I've had the chance to visit churches all over the country and speak with architects, clergy, and congregations about their heating challenges. These conversations have shaped how we approach church heating and guided the development of our pew heaters. For churches with fixed pews, pew heaters are a simple and effective solution. They're **discreet, silent, and require minimal preheating**, making them ideal for spaces that aren't in constant use.

Our latest design is built to last, with a durable all-steel construction and zero maintenance required—just reliable warmth when it's needed. Because they run on electricity, pew heaters **can also be powered by renewable energy**, helping churches move closer to their **net-zero goals** while keeping congregations comfortable.”

A photograph of a church interior, showing rows of wooden pews with purple cushions. The pews are equipped with BN Thermic heaters. The background shows the church's architecture, including arched windows and framed certificates on the wall. The text is overlaid on the image in a large, white, sans-serif font.

# Heat 30 pews for around **£8** per hour using BN Thermic pew heaters

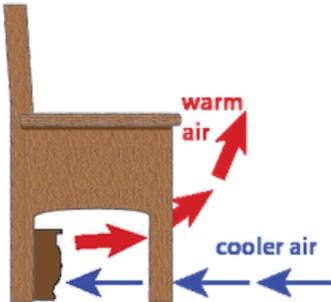
*This is based on thirty, 2 metre pews  
with 2 x 450W pew heaters installed  
and a standard energy tariff of 30p  
kW/h*

## PEW HEATERS

# How They Work

Pew heaters are mounted directly beneath a pew's seat. Once switched on, a pew heater will reach its optimum operating temperature within minutes. At this point, convection currents will start to rise through the air outlet, providing a silent stream of warm air to the pew occupants. At the same time cooler air will be drawn in through the air inlet thus completing the convection cycle.

As it is only necessary to heat occupied pews, we suggest that a simple switch is provided under each pew allowing the heaters to be switched off when not required.



BN Thermic pew heaters take in cool air and silently convect warm air upwards

Pew heaters installed at St James's Church, Egerton, Kent

## PEW HEATERS

# Key Features

Over the years we have refined our pew heater design to make it perfectly suited to its function. Here are the key product features.

- Low running costs
- Silent operation
- Robust all-steel construction
- Dark brown paint finish ensuring minimal visual impact
- Enclosed design making external guards unnecessary
- Overtemperature device prevents overheating if air inlet or outlet are obstructed

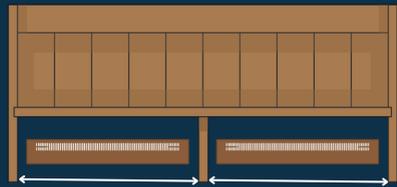
## PEW HEATERS

# Selecting a Heater

Selecting the best pew heater or heaters for any given pew is quite easy. For the best results, try to heat as much of the pew's length as possible. The diagram and table below show what to measure and which heater size best fits the gap.

Model	Wattage	Space between seat supports
PH30	300W	600mm to 750mm
PH45	450W	750mm to 1000mm
PH65	650W	1000mm to 1500mm

When the space between the seat supports exceeds 1500mm, multiple heaters should be used



For pews that do not have a backboard, we offer suspension brackets that can be fitted to the underside of the pew seat or floor brackets, so the heaters are free standing



We also have a quick 3 step guide to measure, record and submit your pews

## PEW HEATERS

# The Next Step

Selecting pew heaters is straightforward, but our engineers are always here to discuss your project. For larger installations, we can arrange a survey or demonstration. If you need help with your pew heating, don't hesitate to contact us. For a quick 3-step guide to measuring, simply scan the QR code to the left.



Magic Lamp quartz heaters installed at St Peter's Church, Pavenham, Bedfordshire

## AN INTRODUCTION TO

# Quartz Halogen Heaters

By Graham Watson  
Technical Manager  
BN Thermic

Quartz halogen heaters are an ideal choice for churches, providing **efficient**, targeted heat **without the need for preheating**. This makes them cost-effective, helping churches **reduce energy consumption** and progress toward **net-zero goals**.

These heaters only warm the areas that are switched on, unlike traditional heating systems that heat the whole room. For example, if side chapels are empty, they don't need to be heated during services.

The **Magic Lamp** heater provides the same efficient performance as traditional halogen models, with **zero glare** and a lower light output. Feedback from churches that have installed Magic Lamp heaters has been very positive, making them a great option for **energy efficiency** and comfort.

The background of the page is a photograph of a church interior, showing a stained glass window and a heater. The text is overlaid on this image.

Using magic  
lamp quartz  
halogen heaters,  
a typical church  
nave can be  
heated for  
around £5.40  
per hour

*This is based on a 15m x 4m nave  
heated using six 3kW Magic Lamp  
quartz halogen heaters and a tariff  
of 30p per kW/h*

## QUARTZ HEATERS

# How They Work

Quartz halogen heaters use infrared energy, focused by a reflector. When this energy is absorbed by people, it feels like heat. The lamps heat up almost instantly, so you feel the full effect right away. A simple way to think of it is like walking into sunlight from the shade—the air temperature hasn't changed, but you feel warmer.

The heaters are typically wall mounted between 3-3.5m (depending on model) and mounted downwards at an angle of 45°.

The **Magic Lamp** variety of lamp has been created with churches in mind. It provides the exact same heat intensity but emits a barely noticeable pink glow. You can certainly see that the filament is energised but you don't get the red beam typically associated with halogen heaters

## QUARTZ HEATERS

# Key Features

Recent changes to the BN Thermic range have made our quartz halogen heaters even better suited for church installation.

- Choice of black or ivory heaters
- Heater outputs from 1.5kW to 6kW
- Long lamp life (average 7000 hours)
- 95% of output is useful infrared energy
- Instantly effective
- Robust but stylish aluminium case
- Electropolished aluminium parabolic reflector
- Magic Lamp technology for low light output and zero glare
- Wall bracket providing 'up and down' and 'side to side' adjustment



Quartz heaters installed at St Giles Church, Medbourne, Leicestershire



## QUARTZ HEATERS

# Selecting a Heater

Heater selection and positioning must be carried out with care and with an understanding of the specific requirements of a church. The ideal installation will provide an even spread of gentle warmth. However, the incorrect selection or positioning can produce patchy heating and hot spots.



*BN Thermic offers free of charge designs and church heating surveys for more complex projects.*



## QUARTZ HEATERS

# The Next Step

BN Thermic has vast experience in heating churches and have designed church heating schemes throughout the UK. This is free 'no obligation' service for all customers.

Our engineers are happy to use dimensioned sketches to design a scheme or, for more complex projects, we can meet you at your church to carry out a heating survey with product demonstrations. Please do not hesitate to contact us.

# BNthermic

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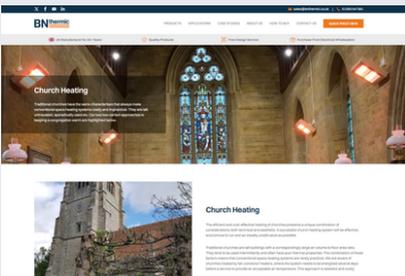
## Case Study

Under Pew Heaters Installed in Holy Trinity Church in Coalbrookdale, Telford



## Case Study

Zero Glare Magic Lamp Quartz Heaters Installed in St Peters Church Pavenham, Bedfordshire



## Web Page

Our in depth church heating application page



Need assistance with your church heating project?

**Contact our expert friendly team**

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