



St Chads Church Pattingham

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Infrared

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STEP 1. Heating Audit

We begin with a heating audit, where our experienced technicians assess your buildings current heating system. This audit helps us understand your existing setup, identify any inefficiencies or issues, and gather essential data to inform our recommendations.



STEP 2. Understanding Your Needs

Next we work closely with you to understand your specific heating requirements and preferences. Whether you're concerned about energy efficiency, comfort, or budget constraints, we take the time to listen and tailor our solutions to meet your unique needs.



STEP 3. Energy Saving Solution

Creating a comprehensive heating and control solution based on the findings from the heating audit and our discussions with your team, we design a comprehensive heating and control solution specifically tailored for your building. This solution may include a combination of high efficiency heaters, smart thermostat systems and zoning controls to optimise comfort and minimise energy usage.



STEP 4. Full Installation

Full installation and commissioning service. Once the heating solution is approved, our expert team handles the full installation and commissioning process from start to finish. We ensure that every component is installed correctly and calibrated for optimum performance. Our goal is to minimise disruption to daily activities and provide a seamless transition to your new heating system.



STEP 5. Aftercare Service & Monitoring

Aftercare service and monitoring, our commitment to customer satisfaction doesn't end with installation. We offer aftercare services to help you monitor and maintain your heating system effectively. This includes providing access to heating data analytics and offering proactive maintenance to address any issues before they escalate. Our goal is to ensure that your building remains warm and comfortable year round, with minimal hassle for your team.

Connect Infrared delivers sustainable heating solutions that integrate battery technology, conserve water, utilize solar power, and incorporate smart lighting and occupancy data systems.

These innovations enhance energy efficiency, ensure reliability, and significantly reduce environmental impact, offering a comprehensive, eco-friendly heating approach.

We understand that each project is unique, with its own set of challenges and objectives. That's why we offer comprehensive consultation services designed to provide personalised guidance and support every step of the way.

OUTER NORTH AISLE/KITCHEN

Proposed Heating Solution

Heater Selection

We propose the use of Connect Connect Spectrum heaters, selected specifically for environments due to their:

- No visible glow rendering (zero-glare output)
- Silent operation
- Minimal visual intrusion
- Superior projection of mediumwave heat

Heating Layout

5 x SPECTRUM 3.0kW UNITS

The primary heating provision will be achieved by installing the Spectrum at 6m (directly on the beam overhead all cable runs will be hidden around beams and ridge plate.

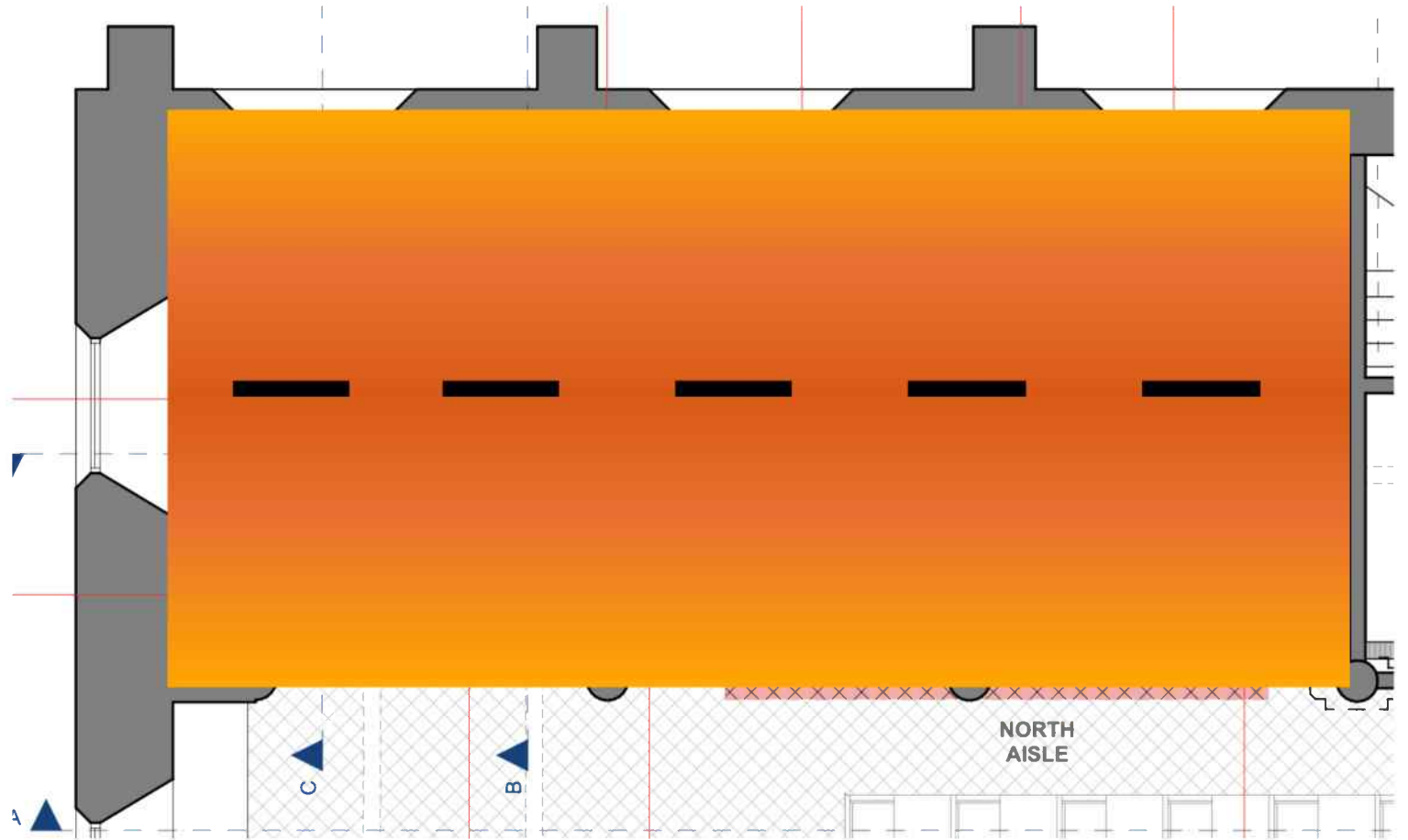
- Heaters will be mounted and Equi spaced across the length of the hall
- This allows radiant heat to be projected directly across to occupants
- Ensures fast warm-up times and effective comfort heating during activities

5 x 3.0kW SPECTRUM HEATERS

TOTAL POWER (kW): 15kW

TOTAL AMPS: 65.22

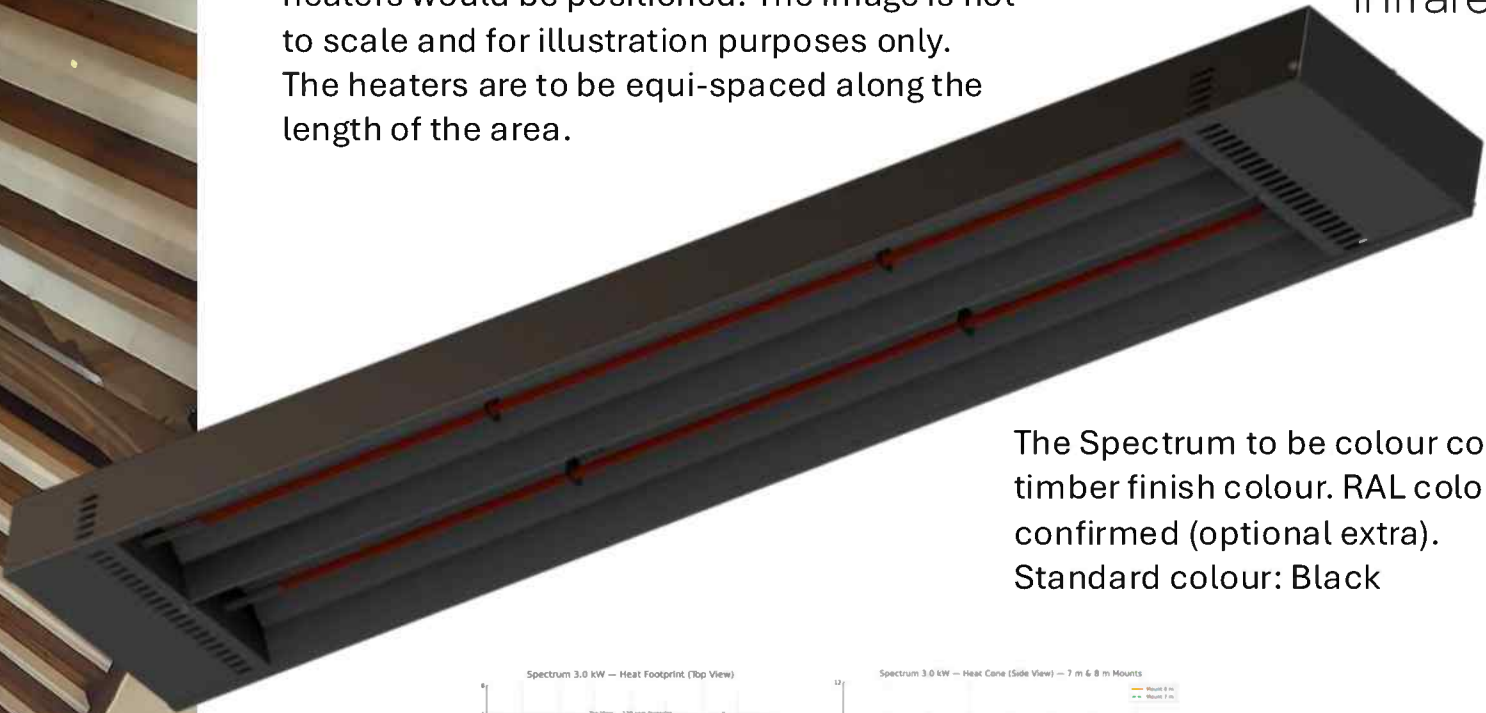
RUNNING COSTS: based on 30p per kW
hour the system will cost £4.50 per hour when
all heaters are on.



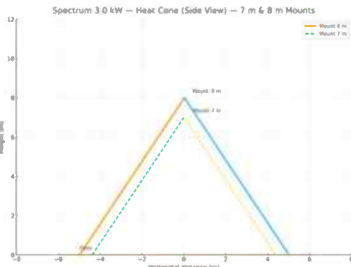
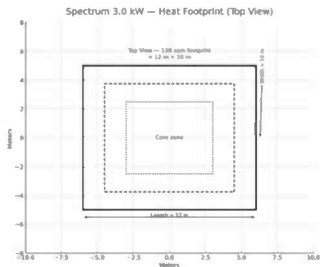


The image shows an example of where the heaters would be positioned. The image is not to scale and for illustration purposes only. The heaters are to be equi-spaced along the length of the area.

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The Spectrum to be colour coded in timber finish colour. RAL colour to be confirmed (optional extra).
Standard colour: Black



Light Emission:
Voltage:
Power:
Energy:
Colour:
Assembly:
Sizes:
Weight:IR Wavelength

Zero Glare
230V
3000W

Electricity
Stainless Steel
Ceiling Mounting
1480 x 240 x 85 mm
8.4 kg
Mediumwave

OUTER NORTH AISLE/KITCHEN ZONES

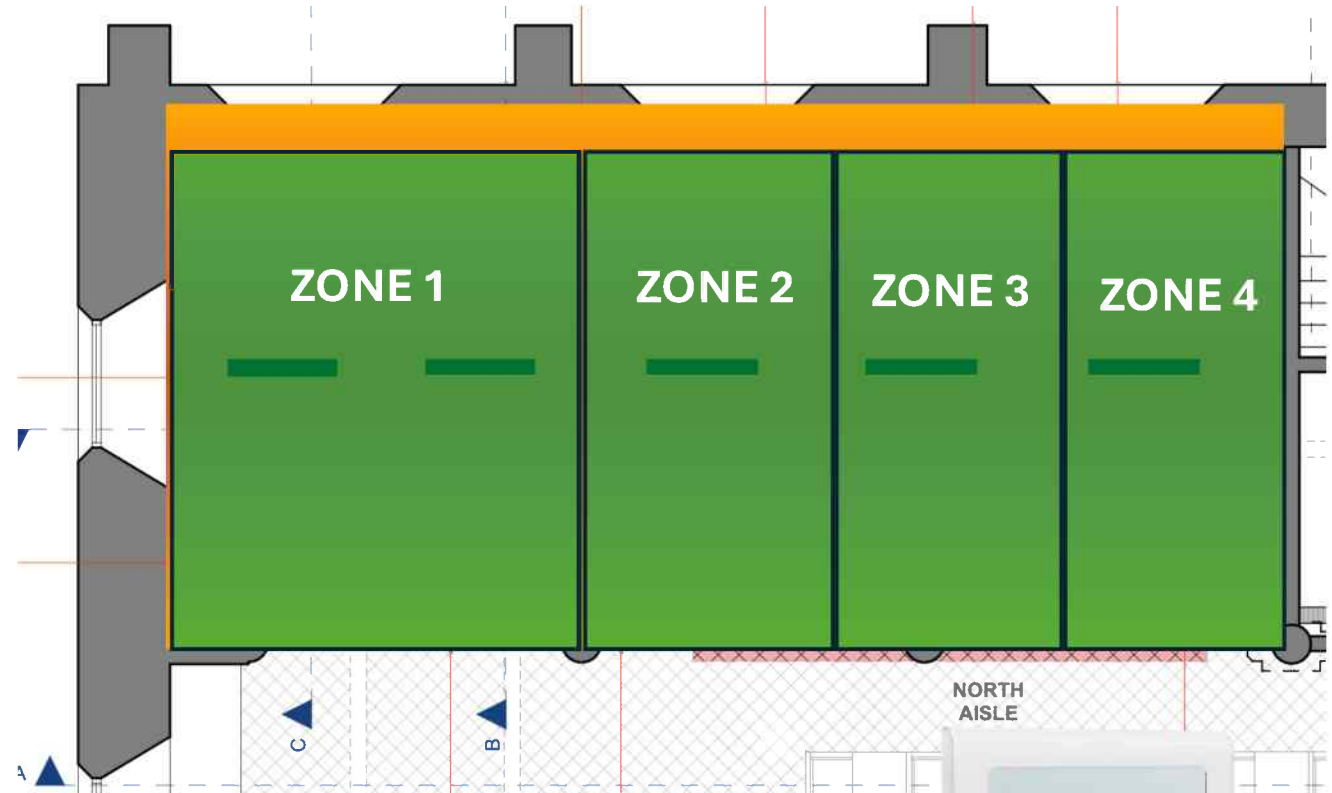
WIFI & HARDWIRED CONTROL SYSTEMS AVAILABLE

HEATERS CAN BE ZONED TO FURTHER PROMOTE ENERGY SAVINGS. THIS WOULD BE DISCUSSED WITH THE CHURCH TO UNDERSTAND HOW THEY USE THE AREAS.

As the building has WIFI Internet installed the use of wireless controls are available and reduce the cabling to avoid further cable runs.

The user can assess the usage patterns which can be reconfigured at anytime remotely or call Connect for help.

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WIFI HUB



RELAYS TO CONTROL
ZONES



SIMPLE PUSH BUTTON
FOR ON/OFF CONTROL



Connect Control System

The proposed heating system will include a state-of-the-art control system designed for flexibility, energy efficiency, and ease of use. This system will allow the church to manage the heating zones effectively, meeting the varying needs of services, events, and everyday use.

Key Features of the Control System:

1.App Integration:

1. The control system can be accessed via a mobile or desktop app, allowing remote operation and monitoring.
2. Users can adjust heating settings, schedule timers, and monitor energy usage from anywhere, providing maximum convenience.

2.Smart Button Operation:

1. A physical smart button interface will be installed within the church, enabling quick and easy adjustments on-site without needing to access the app.
2. The interface will include intuitive controls for turning heaters on and off, and activating preset modes.

3.Timer Rules and Scheduling:

1. The system will support customised timer rules for each zone.
2. Users can set schedules to automatically turn the heaters on and off according to the church's activity patterns, ensuring warmth is provided only when needed.

4.Auto Shutdown with Manual Override:

1. An auto-shutdown feature will ensure heaters turn off automatically after a set duration, reducing the risk of energy waste and unnecessary heating.
2. A manual override function will allow users to extend or modify heating durations during unforeseen circumstances, ensuring flexibility and control.

5.Zonal Heating Management:

1. Each heating zone (North Aisle, Nave and South Aisle, Chancel) can be controlled independently, allowing tailored comfort levels based on specific use cases.

6.Energy Efficiency Insights:

1. The system will provide data on energy usage for each zone, helping the church optimise costs and understand usage patterns.

This advanced control system ensures the heating solution is not only effective and user-friendly but also supports the church's commitment to energy efficiency and cost management.



Zero Light ONYX Infrared Heating Performance

Overview

Infrared heating technology warms people and objects directly, without significantly heating the surrounding air. This ensures efficient energy use, particularly in large spaces like churches, while maintaining comfort. The **medium-wave infrared heaters** proposed for St. Peter's Church provide warmth without emitting visible light, preserving the aesthetic and liturgical atmosphere of the space.

Proof of Performance

A demonstration conducted by the **Net Zero Officer of the Coventry Diocese** confirmed the effectiveness of zero-light infrared heaters using infrared imaging technology.

•Infrared Camera Observation:

An infrared camera captured the temperature distribution of a space heated with zero-light infrared technology. Surfaces and occupants recorded temperatures exceeding **20°C**, demonstrating the direct and effective warmth provided by the heaters.

•Zero-Light Emission:

Unlike shortwave infrared systems, which produce a bright glow, the heaters emit medium-wave infrared energy, invisible to the human eye, ensuring no visual disruption.

Benefits Confirmed:

- Effective heating performance in large, open spaces.
- Energy efficiency by directly warming surfaces and occupants.
- Zero light emission maintains the ambience of ecclesiastical settings.

This proven performance highlights the suitability of medium-wave infrared heaters for Church/Hall, ensuring efficient, comfortable, and discreet heating.

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<https://www.youtube.com/@-ConnectInfrared/shorts>

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