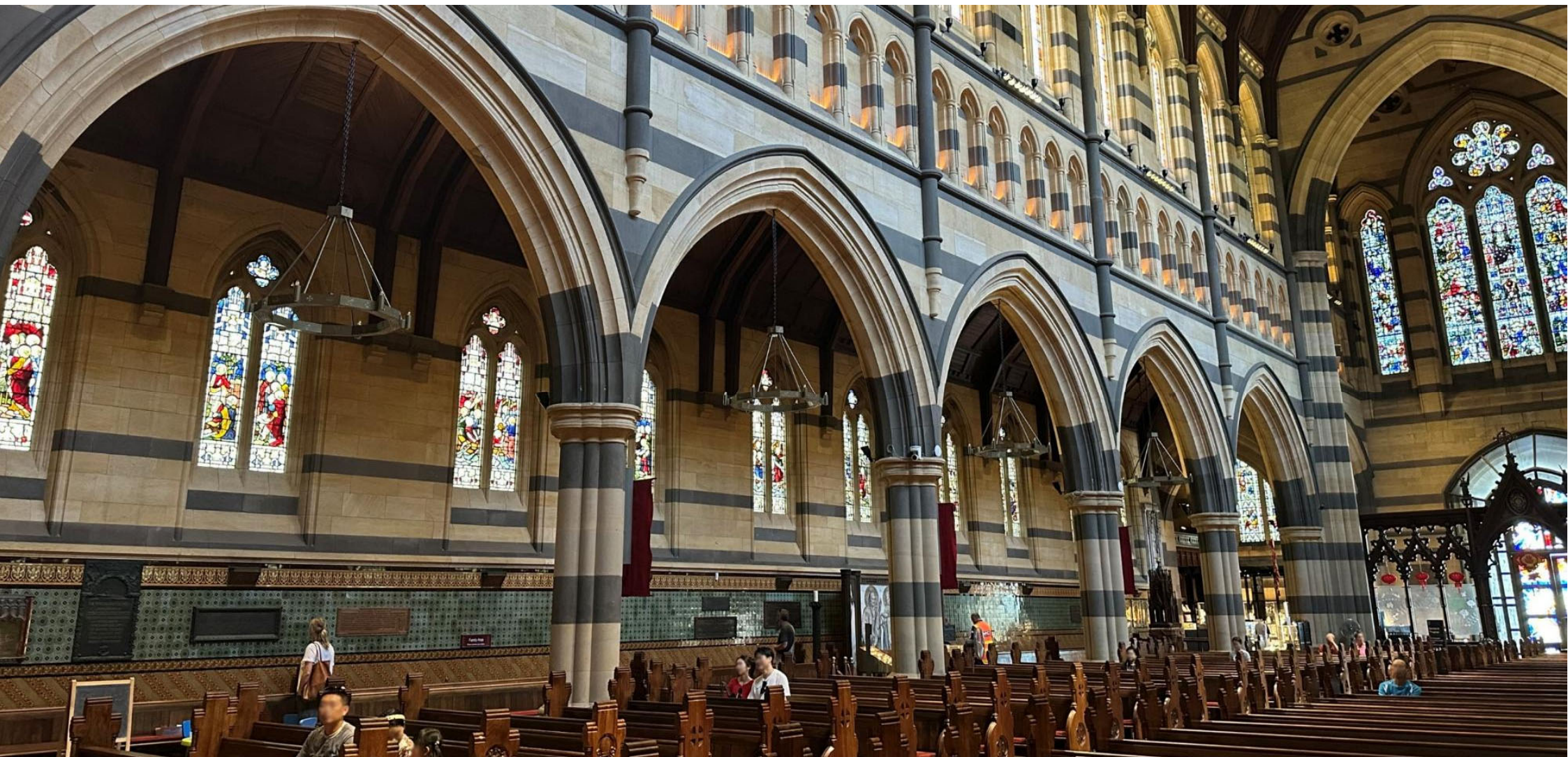


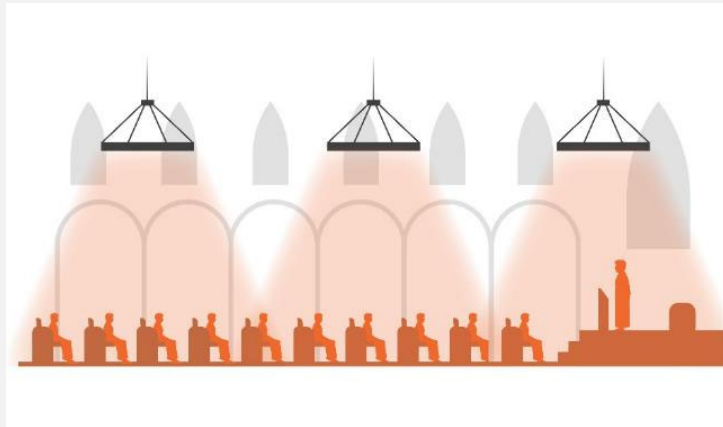
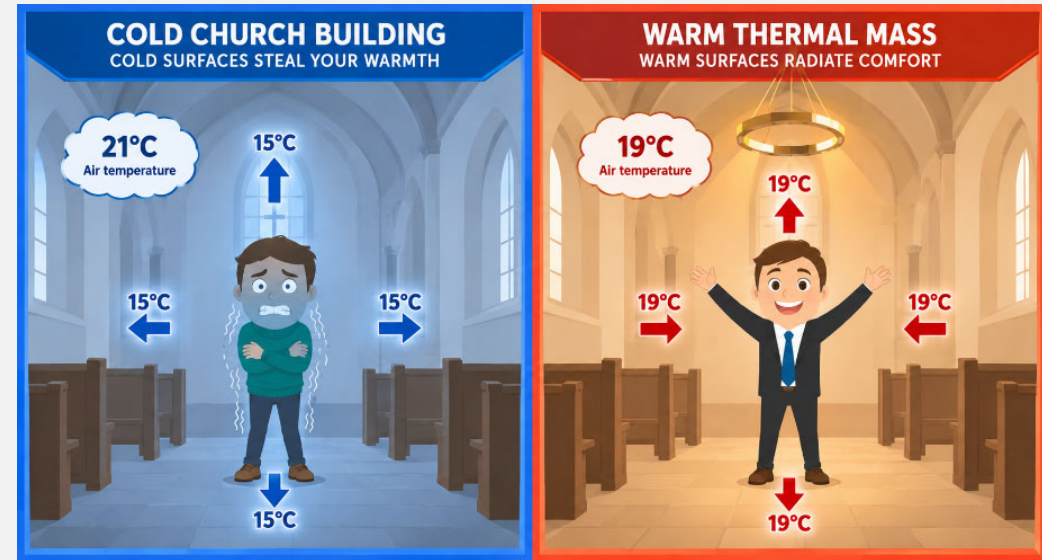


Sustainable radiant heating and energy management solutions for churches and heritage buildings in the transition to Net Zero



What is **Infrared** heat?

- ❖ Direct radiation of heat energy;
- ❖ Directly heats from above / heats objects not air;
- ❖ Different IR wavelengths & their application;
- ❖ Improved comfort, lower cost and consumption.



What is infrared heat?

Heritage market calling for a heating solution that delivers:

- ❖ Zero light;
- ❖ Hits Net Zero targets by 2030;
- ❖ Avoids high installation costs, maintenance, disruption, delay;
- ❖ An acceptable solution to conservation bodies;
- ❖ Links to solar PV and renewables;
- ❖ Heating of occupiers comfortably, effectively and sustainably;
- ❖ Preservation of historic interiors;
- ❖ Beautifully discreet designs to fit the heritage aesthetic.



Better for you



Better for buildings



**Better for our
planet**

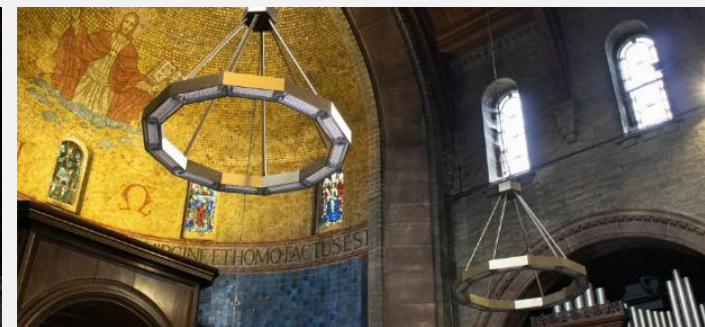


Heritage market



Herschel Halo - specially designed for the heritage market
(Registered UK Design No. 6321585):

- ❖ Zero light specialist far infrared ceramic heating emitters;
- ❖ Optional low power, dimmable LEDs;
- ❖ UK made / EU sourced materials;
- ❖ 7,500 - 10,000hrs bulb life;
- ❖ 95% recyclable, no harmful materials;
- ❖ 3 power settings / ease of control / remote control;
- ❖ Different finishes available;
- ❖ 5-year warranty
- ❖ Integrated **InfraSense®** operating system
- ❖ Halo Mini also available



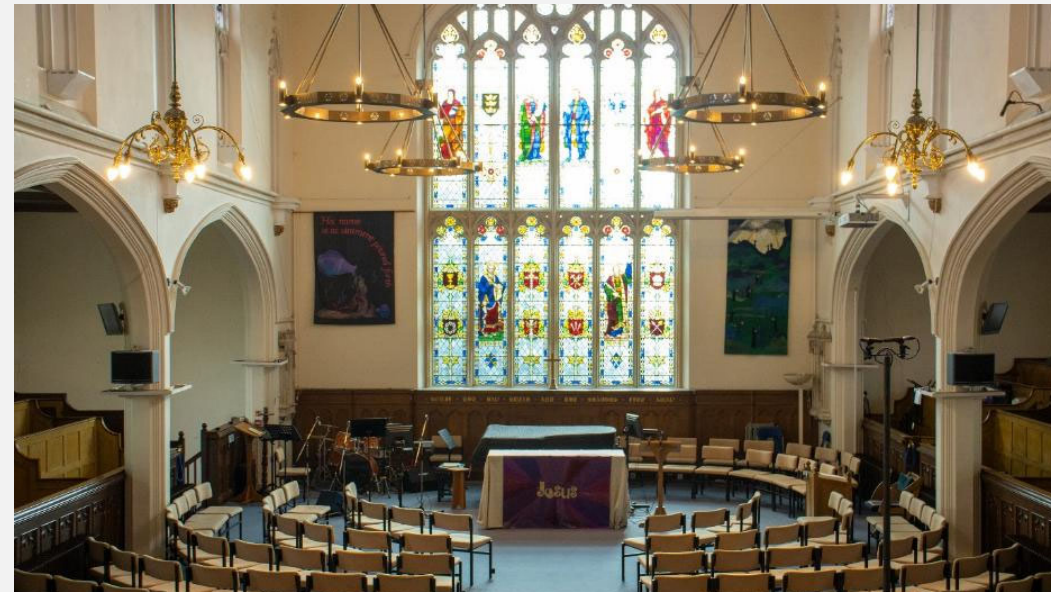
Herschel Halo



St Matthew's Church – 4 x **Herschel Halos** installed Winter 2022

Independent review of Halo at St Matthew's Church outlined:

- ❖ *'Significant energy, carbon and cost savings were noted';*
- ❖ *'The congregation of St Matthew's Church were unanimously positive regarding the visual appearance of the units';*
- ❖ *'Pre-heat timing reducing from 3 hours for the gas/radiator system to 30 minutes for the Halo system';*
(Note: warm-up times may vary)
- ❖ *'With careful positioning, the chandelier design of the Halo can provide comfort heating for people in the church while limiting the conservation risk to sensitive artefacts and monuments'.*



Heritage case study

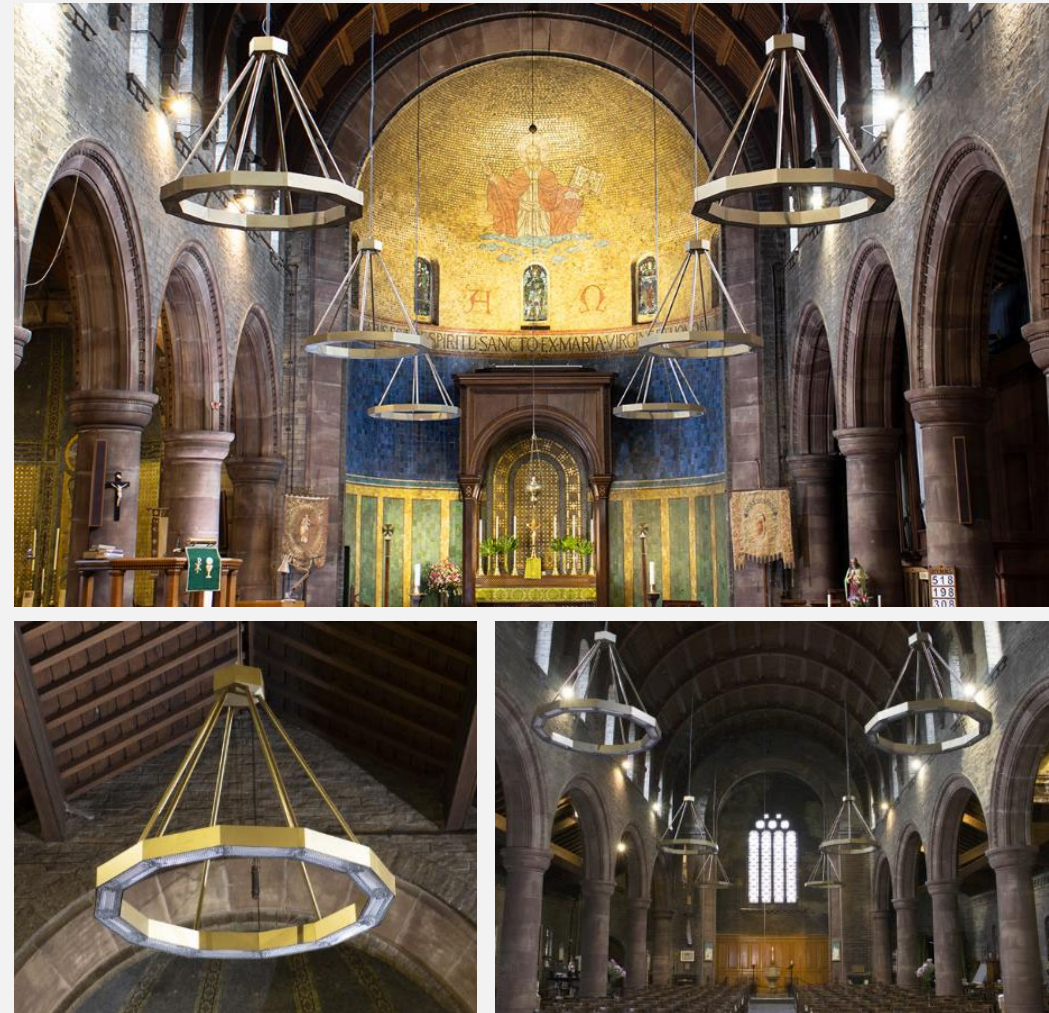
St Chad's Church, Grade II listed – 9 x **Herschel Halos** installed Winter 2023

- ❖ **Significant reduction in energy costs:** pre-Halo Jan 2021, costs £1,600, reduced to £465 in Jan 2024;
- ❖ **Huge savings of £1,135;**
- ❖ Positive feedback from congregation on comfort;
- ❖ Reduction in carbon emissions; church is now heated solely with electric only.

"We are very pleased both with the heat from the halos and with their appearance which echoes the circular light fittings from 1915."

"Herschel's Halo heating system has an advantage over alternative systems, in its suitability to work within the restrictions imposed by its listed status. These churches are also likely to be old and not very well insulated. This reduces the effectiveness of many of the alternatives and, again, the Halo's effectiveness in such spaces is another advantage over and above alternative heating systems."

Heritage case study



Herschel **Halo Horizon**

Designed to heat areas where Halos can not be suspended

- ❖ 3200W and 2600W
- ❖ UK manufactured with British made steel
- ❖ Built to last a lifetime
- ❖ Ceiling suspension and wall mounting
- ❖ Nickel-plated grill & optional decorative design
- ❖ 5-year warranty



Herschel **Under Pew Heater**

Efficient, gentle comfort for churches keeping their pews

- ❖ 450W and 250W
- ❖ UK manufactured with British made steel
- ❖ Highly efficient, Swift Comfort Plus system
- ❖ Freestanding or Pew mounting options
- ❖ Ornate safety grill or CoolTouch* custom design
- ❖ 10-year warranty

*CoolTouch features unique technology with touchable surface



Herschel Halo Horizon & Under Pew Heater

Herschel has a **dedicated team** of in-house surveyors and specialists who provide:

Desktop and on-site surveys

- ❖ Latest technology: 3D scans and visual representations of your heaters;
- ❖ Understand full requirements and tailor a bespoke solution;
- ❖ Assist with DAC applications.

Installation services and ongoing support

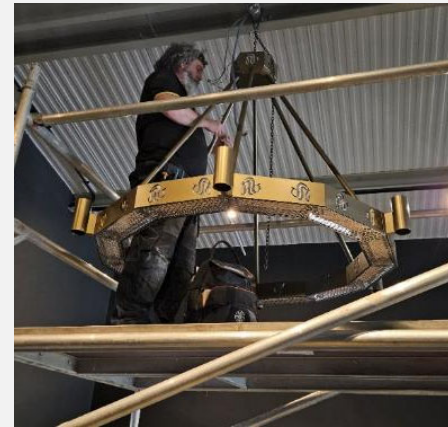
- ❖ Supply and install Herschel heating and ESS systems;
- ❖ Guidance on how to maximise efficiency with **InfraSense®**;
- ❖ Ongoing support from our friendly technical team;
- ❖ UK-wide comprehensive installation and commissioning service.



On-site survey



Bespoke proposal / visuals



Installation services



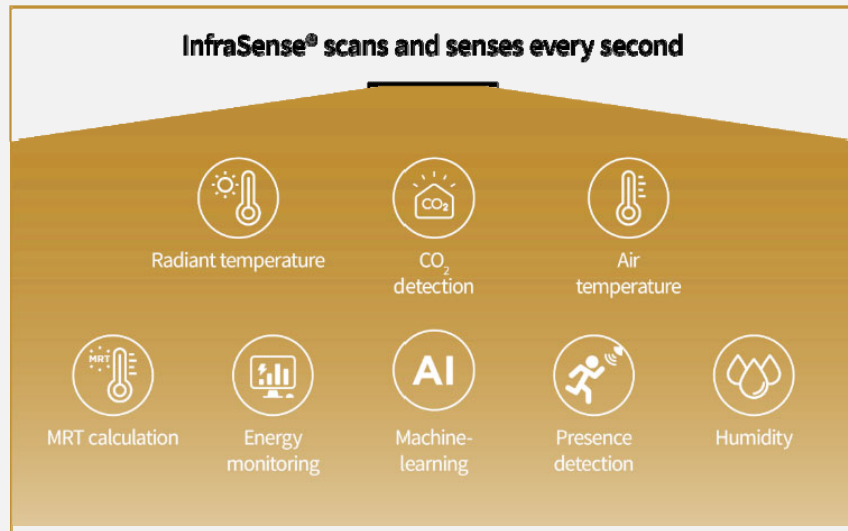
Friendly ongoing support

Heritage Specification Service



Advanced control is available through Herschel's **InfraSense®** system which is integrated into Halo

- ❖ Heaters can be controlled individually or grouped into zones;
- ❖ No other system can achieve this level of control
- ❖ Maximises comfort and saves energy



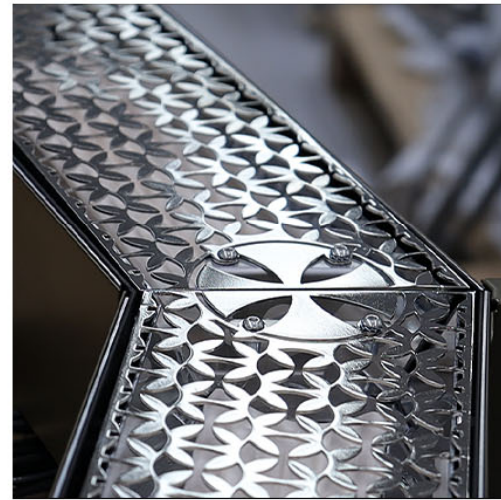
Alternatively, we offer our APX control system

infraSense®
Patent protected GB2631160



Herschel InfraSense®

HERSCHEL
Infrared heaters

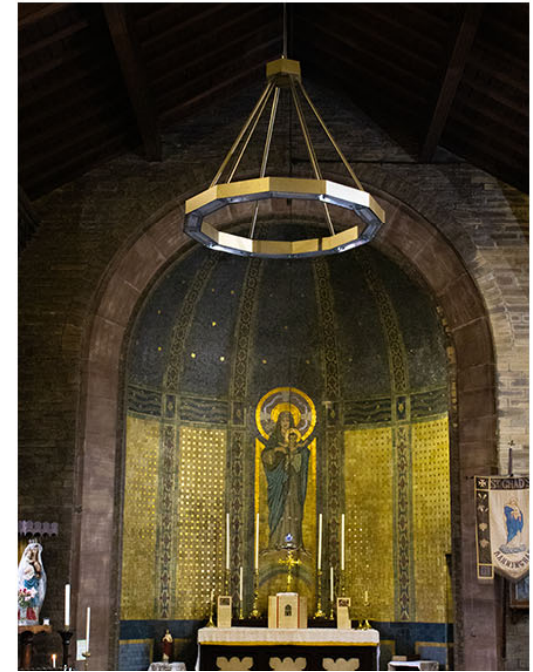


Proven UK success with:

- ❖ **750+ Halo enquiries** from churches in the UK
- ❖ **70+ Halo installations** across the UK
- ❖ Global Halo installations in Australia, USA and across Europe

Laser cut design, hand assembly in UK



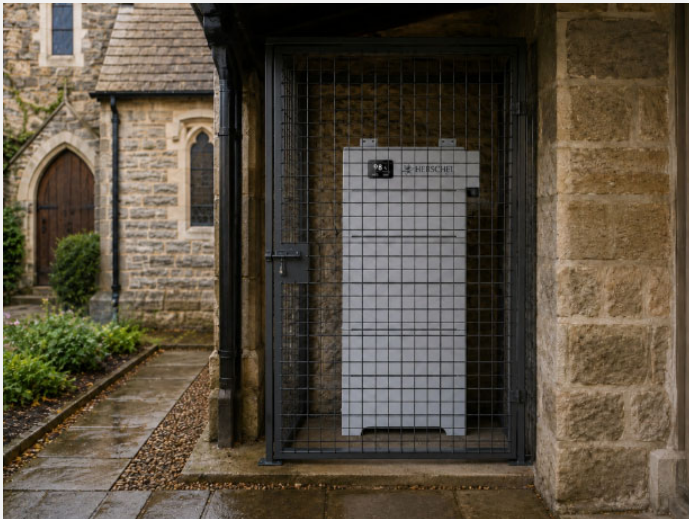


St Luke's, Maidstone, saw **attendance growing by c.23%** over the last 12 months due to the warmer, more welcoming space for the community

Herschel **Energy Storage System** (ESS)

- ❖ combines battery storage and intelligent InfraSense® control with efficient infrared heating.

**The smart route to electrification
without the cost and disruption of
major grid upgrades**



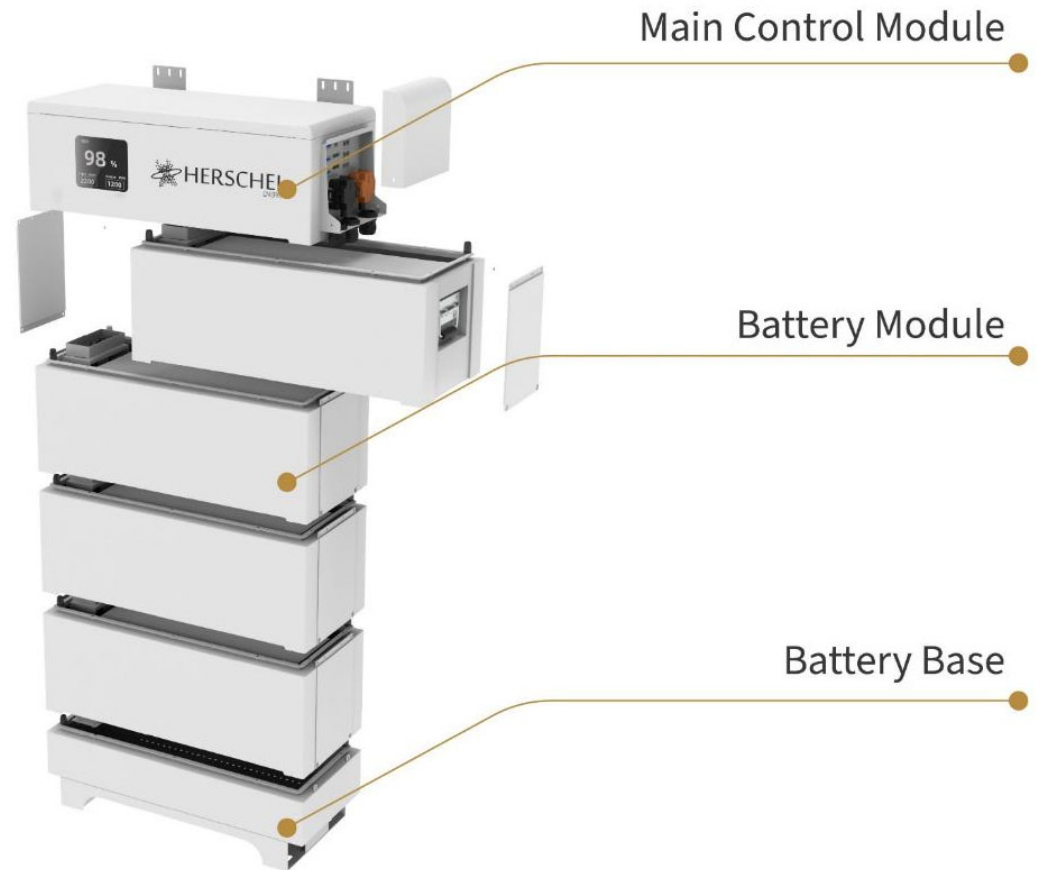
Herschel ESS

Herschel ESS - modular & scalable

- ❖ 5kW battery modules
- ❖ Up to 6 modules per stack (30.7kW)
- ❖ Modular battery architecture
- ❖ Future expansion capability

Herschel design service includes review of:

- ✓ Heating requirements
- ✓ Building usage patterns
- ✓ Peak demand periods



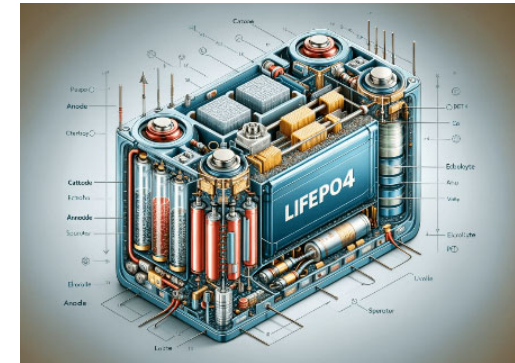
Lithium Iron Phosphate (LiFePO₄) battery technology, widely recognised as one of the **safest lithium battery chemistries available** for stationary energy storage applications

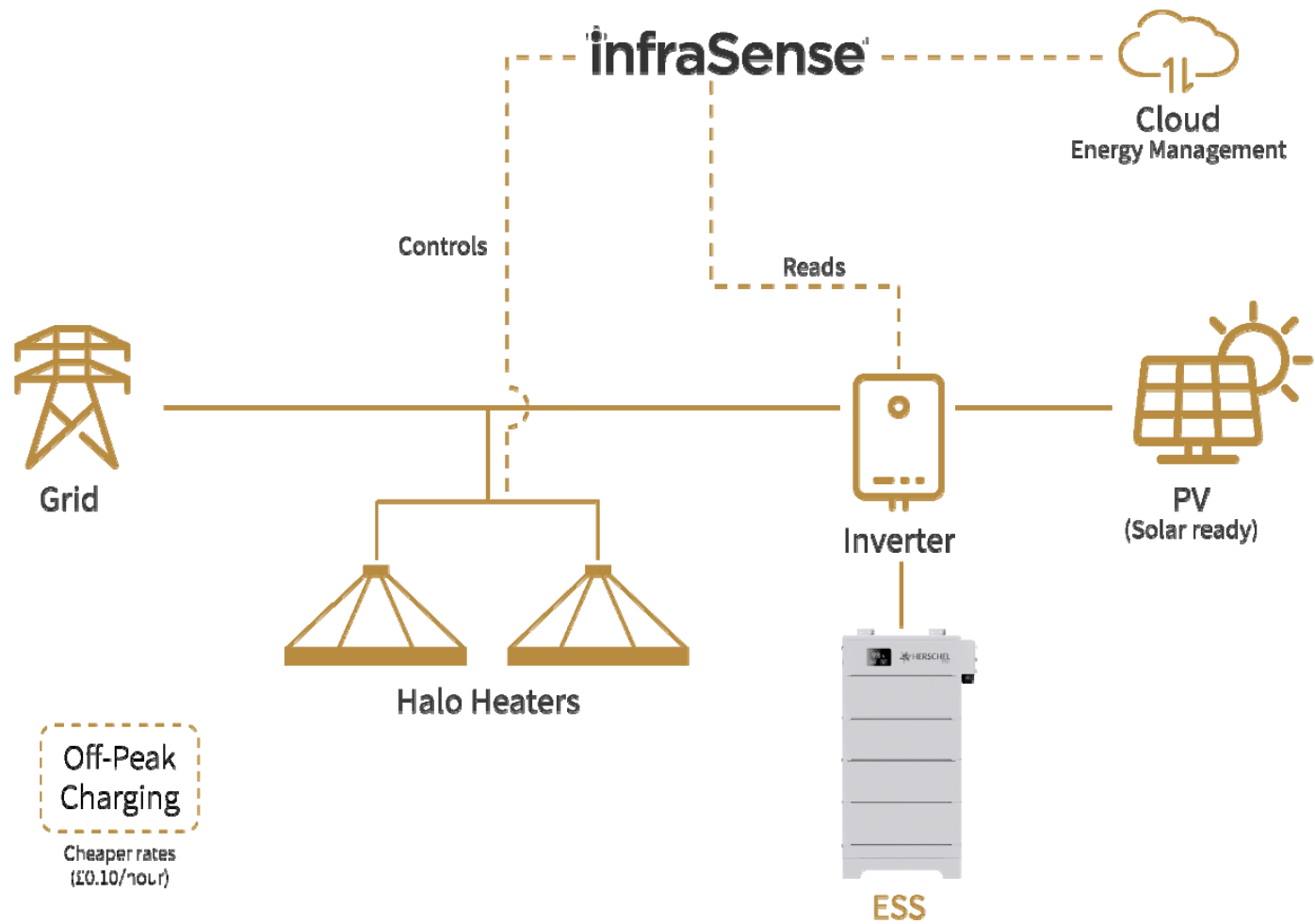
- ❖ High performance – guaranteed 8000 cycles
- ❖ Long service life (@3 services a week = 50 years)
- ❖ Continuous monitoring
- ❖ IP65 rated – indoors and sheltered outdoor locations

Protection measures can include:

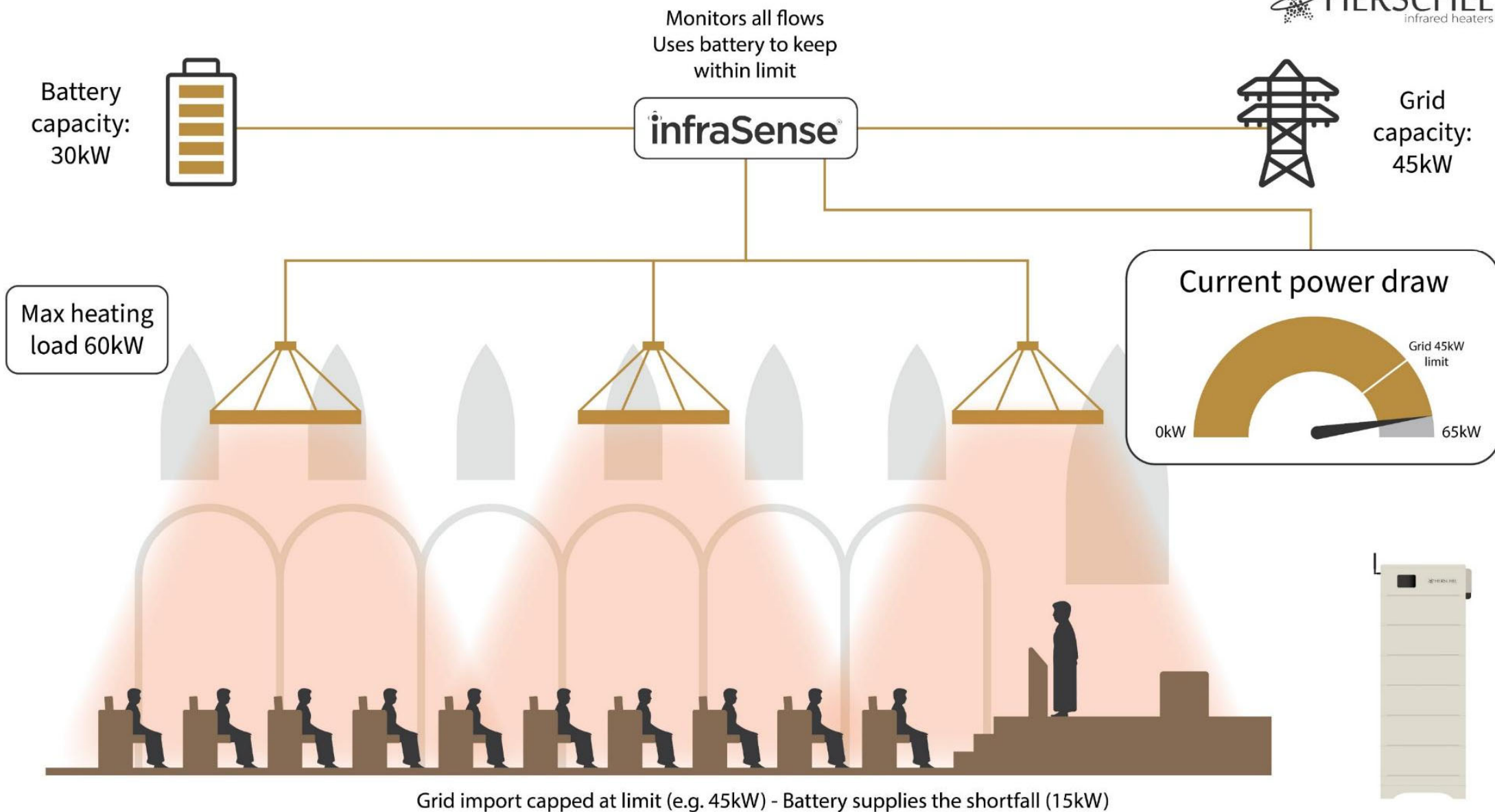
- ❖ Lockable steel / fire-rated cabinet solutions
- ❖ Fire detection systems
- ❖ Keyholder notification systems
- ❖ Controlled access
- ❖ Risk-assessed installation locations

Herschel ESS – features and safety





Herschel ESS – how it works



Real life Financial Illustration

- ❖ Total Halo heat load is 51kW

	Cost (ex VAT)	Saving from ESS
Supply upgrade quote (single to three phase) 23kW supply capacity	£90,000	
Herschel ESS (& inverter) cost (90kW)	£50,000*	
		£40,000

- ❖ Plus ongoing savings (commercial tariffs) of up to £7,000 per year
- ❖ Use savings to invest in solar & future proof against rising energy costs

*Battery storage systems qualify for 0% VAT rate if installed

(Zero-rate confirmed until 31/03/27, then scheduled to increase to 5%)

Herschel ESS





Thank you

www.herschel-infrared.co.uk/heritage

 **HERSCHEL**
Infrared heaters