

BNthermic

commercial & industrial electric heaters



Energy Efficient
**Squash Court
Heating Solutions**

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BN Thermic is a family-run company, manufacturing from our factory in West Sussex. Over the years, we've successfully delivered heating solutions for numerous squash court projects. This brochure is designed to show how we can support you in heating your courts efficiently.

We understand that heating squash courts presents its own challenges. Courts are typically tall spaces, often used intermittently throughout the day, and can be difficult to heat efficiently using conventional systems. As a result, traditional heating methods are frequently costly to run and slow to respond.

That's why we specialise in two highly effective solutions: **Long-Wave Radiant Heating Cassettes** and **Short-Wave Infrared Quartz Halogen Heaters**. Rather than heating the entire volume of air, these systems deliver warmth directly where it's needed, providing rapid, targeted comfort for players and spectators without lengthy warm-up times or unnecessary energy use.

We hope this brochure provides useful insight and helps you identify the most efficient and sustainable heating solution for your squash courts.

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AN INTRODUCTION TO

Long-Wave Radiant Cassettes

By Joe Bristow, Technical Sales Manager, BN Thermic

For enclosed courts in consistent use, our **ESP2 range of long-wave radiant cassettes** provides reliable and **efficient heating** solution. Mounted high, they radiate heat evenly throughout the court, raising the overall air temperature while remaining **completely silent** and **emitting no light**. Controlled by a **setback thermostat**, ESP2 cassettes maintain a consistent, comfortable environment session after session. Built for durability with minimal maintenance, they offer long-term efficiency, helping clubs keep players warm while managing energy intelligently.

How They Work

ESP2 radiant cassettes emit **long-wave infrared heat**, which travels directly from the units until it strikes objects or the building fabric. This heat is then naturally convected into the space, gradually raising the overall air temperature. Because the heat is radiated rather than blown, the temperature difference between floor level and high levels is minimal, providing an even and comfortable environment for players.

Why Long-Wave?

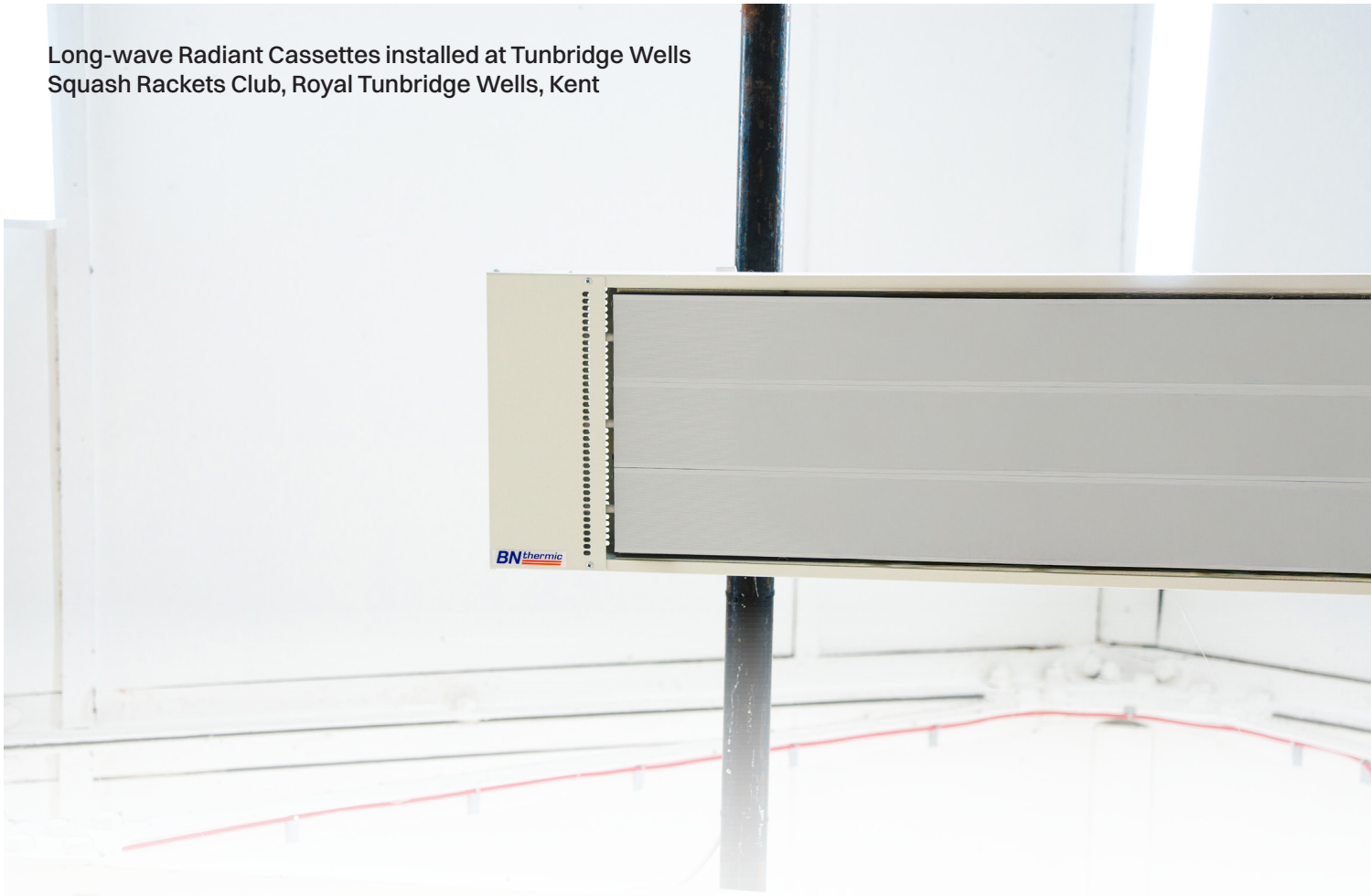
With conventional convection heating, the air temperature increases by **around 2–2.5°C per metre of height**, so achieving 20°C at player level could require the ceiling to be over 30°C. Long-wave radiant cassettes, in contrast, produce only about **0.3°C per metre**, making them highly energy efficient. Players also benefit from **direct radiant warmth**, feeling comfortable even if the overall air temperature is lower. This allows the thermostat to be set slightly lower, reducing energy use and keeping running costs down.

Long-wave Radiant Cassettes installed at Tunbridge Wells Squash Rackets Club, Royal Tunbridge Wells, Kent

DUNLOP
OFFICIAL BALL

vega IT
Integrated development, AI/Cloud intelligence, & mobile system integration

Long-wave Radiant Cassettes installed at Tunbridge Wells Squash Rackets Club, Royal Tunbridge Wells, Kent



Key Features

- Radiant heat without light output
- Robust steel case with white epoxy finish
- Ceiling mounting brackets supplied as standard
- Can be suspended
- Optional angle adjustable wall brackets

Energy Saving Tip: Cassette's radiant effect makes you feel warmer than the actual ambient air temperature. This means you can set your thermostat 3-4C lower.

Getting a Quote

As all squash courts are built to standard dimensions and we have extensive experience delivering heating solutions for these spaces, providing a quote for the **long-wave radiant cassettes** is straightforward.

To prepare an accurate quote, we simply need:

- The number of courts you're planning to heat
- How frequently the courts are used
- Whether the courts include viewing galleries

This will also determine whether your courts require long or short-wave heating.



AN INTRODUCTION TO

Short-wave Infrared Quartz Halogen Heaters

By Joe Bristow, Technical Sales Manager, BN Thermic

For courts that are rarely used or open to other unheated areas, our **HN3 range** delivers **instant warmth** with **no preheating**, so every game is comfortable from the first minute and clubs know exactly what each session will cost to heat. **Installed high**, the heaters stay out of the way, operate silently, and paired with our **Magic Lamps**, emit a soft pink glow that doesn't distract from play.

Easy to control with **push button timers** or similar switches, HN3 units provide comfort only where and when it's needed, keeping **energy use and costs** under control.

How They Work

HN3 shortwave halogen heaters warm people and surfaces directly, rather than heating the air. They work in the **same way as sunlight**. When you step out of the shade into the sun, you **feel warmer immediately** even though the air temperature hasn't changed. Shortwave energy passes through the air and delivers heat straight to the people on court, providing **instant comfort** as soon as the heaters are switched on.

Why Short-Wave?

Because shortwave are not designed to heat the air, they are ideal for **sporadically used courts, poorly insulated spaces**, or courts that are **open to other unheated areas**. In these environments, trying to warm the air and keep it in place is difficult and often wasteful. Shortwave heaters are effective the moment they are switched on, so they only need to be energised while the court is in use, avoiding wasted energy.



Short-wave Infrared Halogen heatersd installed at Brooklands Sports Club,
Sale, Greater Manchester



Long-wave Radiant Cassettes installed at Tunbridge Wells Squash Rackets Club, Royal Tunbridge Wells, Kent



Key Features

- Replaceable halogen lamp with 7000 hours average operating life
- Wall bracket with 'up and down' and 'side to side' angle adjustment
- Can be suspended (optional suspension kit available)
- 1m power lead (2-core and earth)
- Magic Lamp option for reduced light output and zero-glare (M suffix)

Energy Saving Tip: Control with a TS-7 run down timer to avoid heating an unoccupied area.

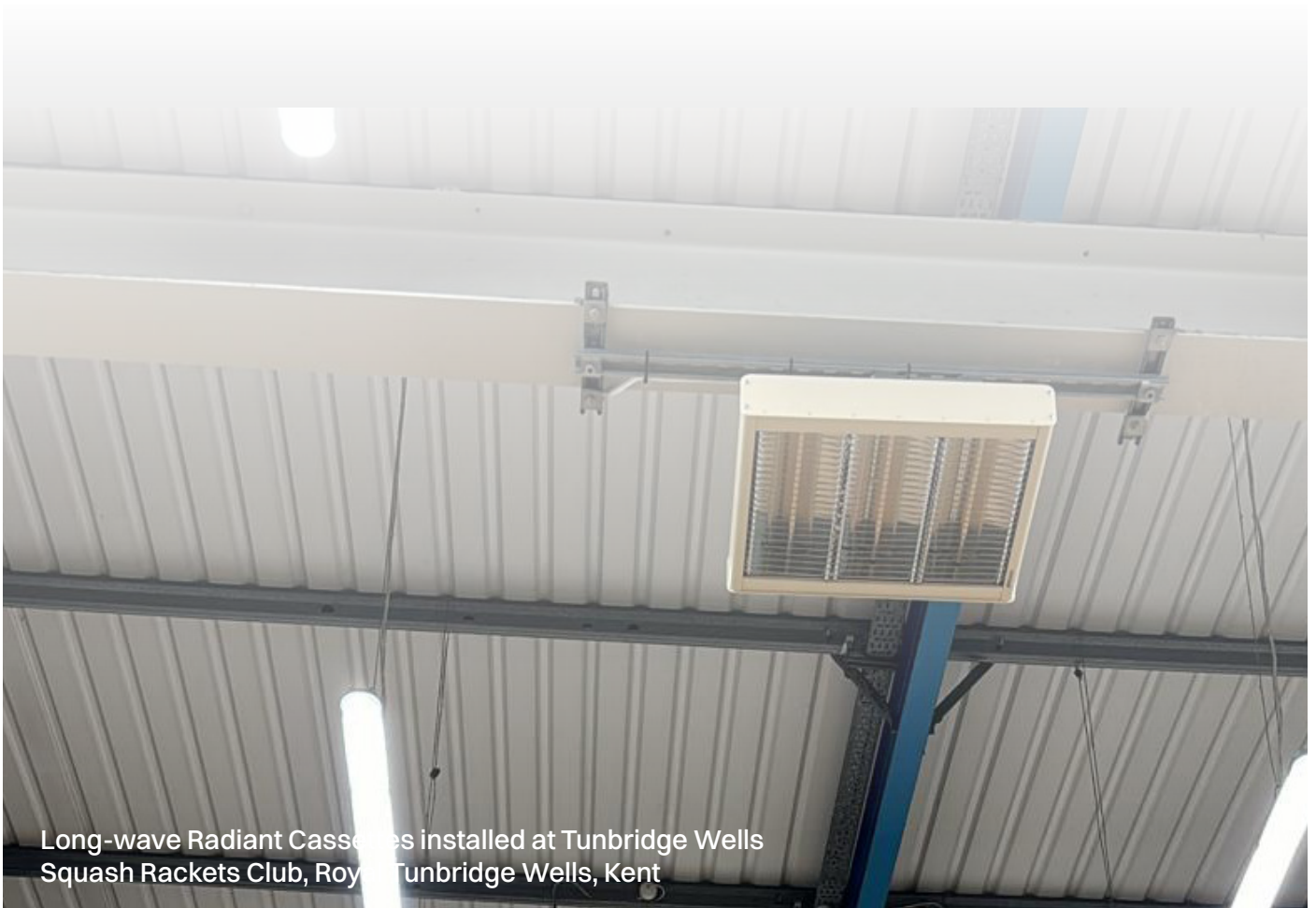
Getting a Quote

Similarly to our long-wave radiant cassettes, we have extensive experience delivering heating solutions for squash courts, so providing a quote for the **short-wave infrared quartz halogen heaters** is straightforward.

To prepare an accurate quote, we simply need:

- The number of courts you're planning to heat
- How frequently the courts are used
- Whether the courts include viewing galleries

This will also determine whether your courts require long or short-wave heating.



Long-wave Radiant Cassettes installed at Tunbridge Wells Squash Rackets Club, Royal Tunbridge Wells, Kent

BN **thermic**

34 Stephenson Way, Crawley, RH10 1TN



01293 547 361



sales@bnthermic.co.uk



***“BN Thermic’s radiant heating transformed our squash courts.
The courts warm up quickly, running costs are lower, and
players noticed the difference immediately.”***

- Rolo, Maidstone Squash Club Chair



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