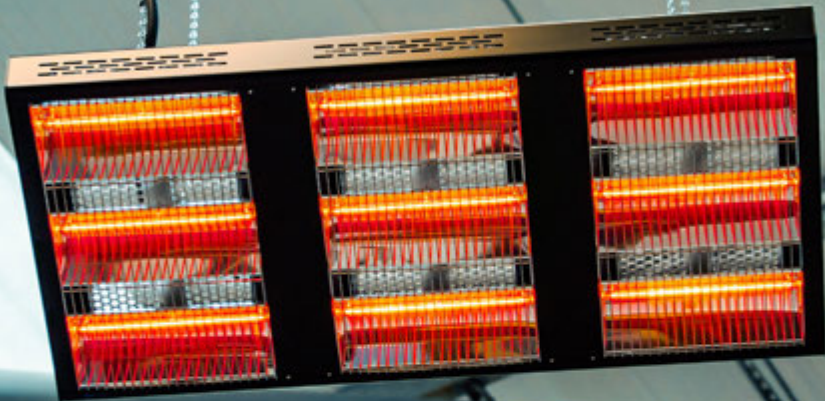




commercial & industrial electric heaters



Energy Efficient
**Warehouse
Heating Solutions**

BN Thermic is a family-run company, manufacturing from our factory in West Sussex. Over the years, we've successfully delivered heating solutions for a wide range of warehouse and industrial projects. This brochure is designed to show how we can support you in heating your warehouse spaces efficiently.

We understand that heating warehouses presents its own challenges. These are typically large-volume spaces with high ceilings, frequent air movement from doors and loading areas and variable occupancy throughout the day.

As a result, conventional heating systems are often slow to respond and expensive to run, particularly where heat is lost to unused areas at high level.

That's why we specialise in two highly effective approaches:

- Space Heating using **OUH3 Industrial Fan Heaters** combined with **DSU3 Destratification Units**
- Targeted Spot Heating using our **HN3 Short Wave Infrared Quartz Halogen Heaters** and **HXL High Output Infrared Heaters**

We hope this brochure provides useful insight and helps you identify the most efficient and practical heating solution for your warehouse environment.



AN INTRODUCTION TO

Space Heating: OUH3 Industrial Fan Heaters & DSU3 Destratification Units

By Joe Bristow, Technical Sales Manager, BN Thermic

For general warehouse environments where a consistent background temperature is required, our **OUH3** range of industrial fan heaters combined with our **DSU3** destratification units **provides a straightforward space heating solution**. Mounted at suitable heights and positioned strategically around the space, OUH3 heaters build up **a body of warm air** within the warehouse, raising the space to the required temperature.

How They Work

The correct kW output is selected based on the size and heating requirements of the space. A powerful fan draws ambient air over the heating elements, raising the temperature by a few degrees. This process repeats continuously until the set air temperature is reached.

In tall spaces such as warehouses and workshops, warm air naturally rises and accumulates at ceiling level, leaving colder, less consistent conditions at floor level. This creates energy waste, as heat is effectively trapped where it is not needed.

Destratification units are installed high in the building, typically around 100mm below the highest point. Each unit includes a built-in thermostat and activates once the ceiling air reaches a set temperature, usually **around 3°C** above the desired working level. At this point, the units circulate the warm air back down into the occupied zone, redistributing heat that has already been generated and paid for.

The result is a more even temperature throughout the space, improved comfort at floor level, and reduced energy consumption.



DSU3 installed at ARUN Automotive, Horsham, West Sussex

OHU3 installed at ARUN Automotive,
Horsham, West Sussex

Key Features: OUH3

- 5 Year Warranty
- Built in contactor meaning multiple heaters can be daisy chained (up to 16)
- 3kW to 40kW models
- Built in thermostat
- Automatic thermal cutout
- Fused control circuit



Key Features: DSU3

- 5 Year Warranty
- Built in thermostat
- Suitable for mounting up to 15m
- Robust all-steel construction
- Suspension kit provided (500mm chains and associated hooks)



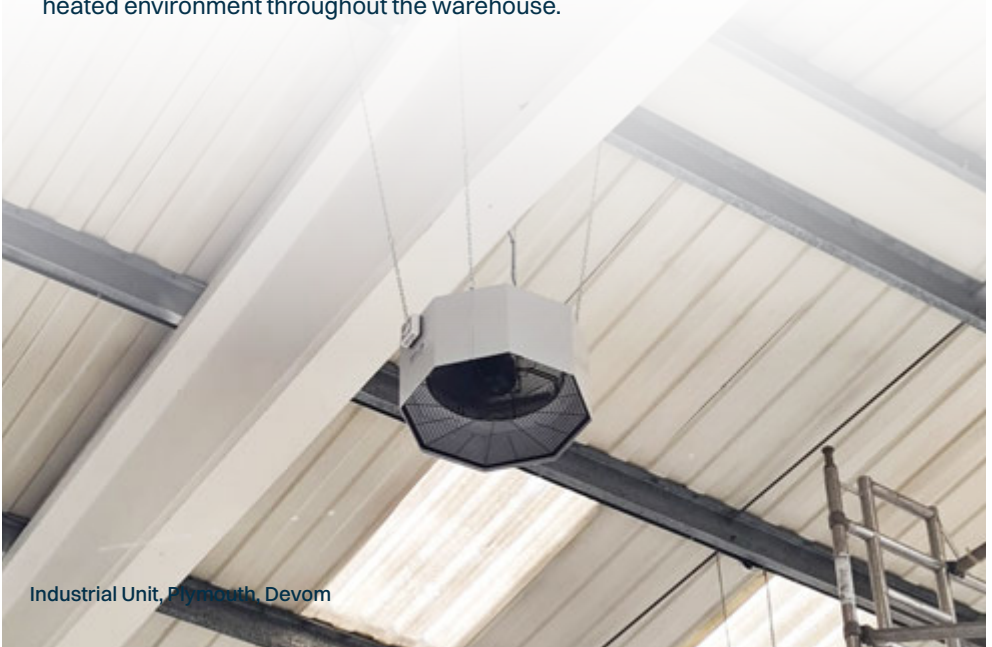
Getting a Quote

Every warehouse is different in layout, height and usage patterns, so providing an accurate space heating proposal is based on a few key details rather than a fixed template.

To prepare a **OUH3** and **DSU3** solution, we simply need:

- Building dimensions and internal height (including eaves and apex if different)
- General use of the space (storage, production, mixed use)
- Required temperature conditions, for example frost protection, stock temperature stability or general staff comfort
- Number of roller shutter doors and how frequently they are opened
- An understanding of the buildings insulation levels

This allows us to determine the most effective combination of **OUH3** fan heaters and **DSU3** destratification units to maintain a stable and efficient heated environment throughout the warehouse.



Industrial Unit, Plymouth, Devom



Case Study: Quaife Engineering

Location: Sevenoaks, Kent

Installed: 2 x 25kW Industrial Fan Heaters; 3 x 10kW Industrial Fan Heaters

For this project we had to design a system which kept staff warm during the day and kept stock above 5°C overnight. We achieved this using our industrial fan heaters and a 7 day timer/frost thermostat.

The destratification unit was also hugely important as it kept running costs to a minimum by pushing warm air down which accumulates at high level.

Once installed, the R&D at Quaife was very pleased with the outcome and commented on how well-engineered the heaters were.



Spot Heating: HN3 Short Wave Infrared & HXL High Output Infrared

By Joe Bristow, Technical Sales Manager, BN Thermic

Spot Heating provides a focused alternative in areas where full space heating is unnecessary or inefficient, spot heating provides a focused alternative. Our **HN3 short wave infrared heaters** are designed for smaller defined areas such as individual workstations or grouped operator zones. Installed at high level, they deliver **instant radiant heat** directly to people and surfaces without heating the surrounding air.

For larger areas or higher mounting heights such as above gantry cranes or wide working bays, our **HXL high output infrared heaters** provide increased coverage and power. These units are designed to deliver effective radiant heat from higher mounting positions while maintaining precise targeting of occupied areas.

Both **HN3** and **HXL** systems operate silently and respond instantly when energised. They are only required when the space is in use, making them ideal for intermittent working patterns or environments with significant heat loss through open doors, ventilation or extraction systems.

How They Work

HN3 and **HXL** short wave infrared heaters work by **heating people and surfaces directly** rather than increasing the overall air temperature. This means they are **effective immediately** when switched on, with no requirement to preheat the space.

Because the heat is delivered directly to the target area rather than the air, performance is not affected by air movement, ventilation or heat loss. This makes them particularly effective in large open spaces, intermittently used areas and environments where maintaining heated air is impractical.

HXL installed at Car Garage,
West Sussex

Key Features: HN3

- 7000-hour lamp light (replaceable)
- Mounting height 2.5m - 5.0m
- Wall bracket with 'up and down' and 'side to side' angle adjustment
- 1m power lead (2-core and earth)
- Magic Lamp option for reduced light output and zero-glare (m suffix)
- 1.5kW - 6.0kW available

HN3's installed at London Transport Museum

HXL installed at Car Garage, West Sussex

Key Features: HXL

- 7000-hour lamp life (replaceable)
- Mounting height 6m - 9m
- Suspension hooks supplied as standard
- Can be wall mounted with HXL-WMX wall mounting kit
- 1.5m, 3phase power lead (4-core and earth)
- 9kW - 18kW available

WAREHOUSE HEATING
BN THERMIC

Getting a Quote

Spot heating requirements are based on the areas where people are working, rather than the whole building. System design depends on where heat is needed within the space.

To prepare an accurate proposal for **HN3** or **HXL** infrared heating, we simply need:

- Areas requiring direct heating (workspaces, production lines, loading zones etc)
- Approximate mounting heights available
- Size and layout of the heated zones

This allows us to correctly specify between **HN3** and **HXL** systems, ensuring heat is delivered directly to the required areas without unnecessary energy use elsewhere in the building.



HXL installed at CK Tools,
North Wales



Case Study: Sussex Car Garage

Location: West Sussex

Installed: 4x HXL-18 18kW halogen heaters

In this case study we look at a large industrial infrared heating installation at a car garage in Sussex. The garage operates out of a large, unheated warehouse that includes four workshop bays and a two-car valeting area.

Our main objective was to design a system that localised heat to the areas where their technicians were working and to provide a heating system that did not interfere with staff, customers or various equipment including car lifts.

The installation was highly successful, significantly improving technician comfort and workplace efficiency, while the original heaters were effectively repurposed in a smaller area.



BNthermic

34 Stephenson Way, Crawley, RH10 1TN



01293 547 361



sales@bnthermic.co.uk



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