

SHADOW Industrial Infrared

CASE STUDY

PANALUX

Panalux operates a 63,000 sq ft specialist facility in Hayes supporting the film and television industry, with departments dedicated to lighting, grip equipment, cables, textiles, generators and equipment preparation.

When the facility opened, one significant challenge quickly became apparent: **the warehouse had no existing heating system.**

With no windows, limited insulation and large industrial spaces, temperatures could become extremely uncomfortable. Staff described the building as feeling “*like a fridge*”, even when outside temperatures were relatively mild. During winter, the conditions were particularly challenging for employees working at fixed stations for long periods.

Panalux needed a heating solution capable of providing effective warmth across individual working areas without attempting to heat the entire volume of the warehouse.

The Challenge

Heating a large warehouse presents a very different challenge from heating a conventional office.

The height and volume of the Panalux facility meant that traditional systems could potentially consume considerable amounts of energy while much of the generated heat would simply rise away from the people who needed it.

Gas-powered warm-air heating was considered, but there were concerns about effective heat distribution throughout the building as well as the potential cost of heating such a large space.

The objective was therefore clear: Provide comfortable, controllable heat directly to employees while complementing the building's energy-efficient design. We worked within the constraints of EPC approval.



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The Outcome

The difference compared with the building's original unheated condition has been significant.

Employees now have access to targeted warmth throughout key working areas, particularly during the colder winter months, with push-button and time lag controls.

The combination of Shadow Infinity infrared heaters and ShadowSmart controls means heat can be provided quickly when and where employees need it, while central controls and automatic switch-off periods help Panalux manage unnecessary heating.

The Panalux project demonstrates how infrared heating and intelligent controls can work together to solve one of the fundamental challenges associated with heating large industrial buildings.

THE SYSTEM

Following a detailed assessment of the facility, 24 infrared heaters in a range of power outputs were selected and positioned according to the requirements of different areas within the warehouse.

10 × Shadow Horizontal Industrial Heaters

- Strategically positioned throughout key operational areas to provide focused radiant warmth for employees and individual work zones.

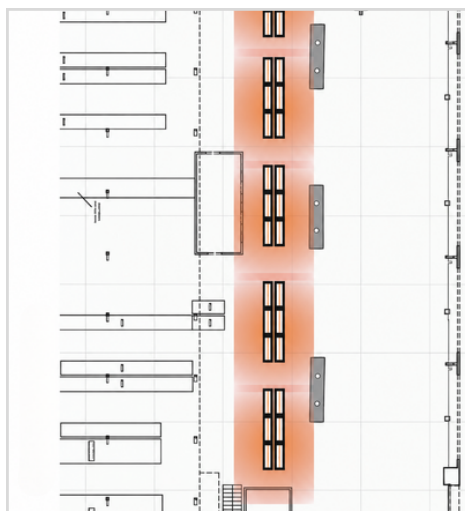
14 × Shadow Infinity Infrared Heaters

- Providing powerful radiant heating across larger working areas and locations, including the loading bay.

The Shadow heaters were also integrated with the ShadowSmart infrared heating control system, providing centralised management alongside convenient local controls for individual working areas, with a push-button time lag.

The combination of different heater types and power outputs allowed the installation to be tailored to the layout, mounting requirements and working patterns of each area.

Together, the infrared heaters and ShadowSmart controls provide Panalux with a responsive, zoned heating solution that delivers warmth where and when it is needed.



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