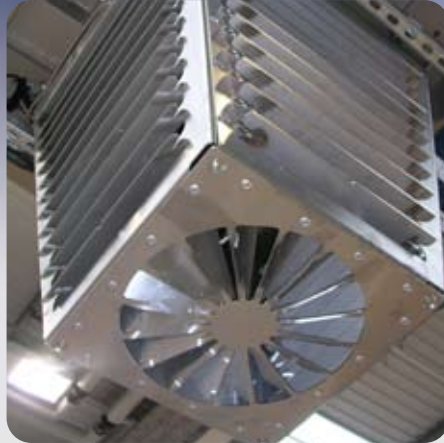


# Mezzanine Floor Case Study



## The Problem

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Lakeland Limited is a family owned company established in 1963 to supply polyethylene freezer bags. The company is now a major UK mail order and retail supplier of creative kitchenware with a product range of about 2500 products.

As a result of increased product volume, a mezzanine floor was installed at their prestige factory, but once installed it was found that the working temperature on the mezzanine was unacceptable, despite the fact that the building was well ventilated, making it virtually unusable.

## The Solution

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Three internal suspended evaporative cooling units were installed along the length of the mezzanine floor, and the air was directed from the coolers down the central picking corridor.

The stainless steel plenum chamber used discharged air in 5 directions, giving the flexibility of flow rate, direction and degree of diffusion required for the work area.

## The Results

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Productivity was improved dramatically on the mezzanine floor, due to the reduction in temperature, and the easy access to the coolers made maintenance simple

## Interesting Facts

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Internal coolers work extremely well, but do require a good supply of fresh air to avoid over-humidification and loss of cooling effect. They are therefore ideally suited to well ventilated buildings.