

# B&Q Logistics Warehouse - Worksop

With their head office in Hampshire, B&Q are the leading home improvement and garden centre retailer in Europe and the third largest in the world, with more than 60 stores opened internationally. Recently opened B&Q Beijing is the largest B&Q store in the world.

B&Q has 350 stores in the UK and 9 stores in Ireland.



## The Brief

Jet Environmental was awarded the contract to provide a frost protection and ventilation solution at B&Q's new 91,364 m<sup>2</sup> logistics warehouse in Worksop. The work was carried out in conjunction with M&E contractor Briggs and Forrester, together with main contractor Bowmer & Kirkland and consultant Hoare Lea.

## The Solution

Seven Balanced Jet systems were engineered to provide the required frost protection and ventilation for this new warehouse. Jet also developed a system which ensures summer time temperatures did not exceed 35°C within the low bay and high bay areas.

An additional feature designed into the systems was a smoke dispersal system, which was incorporated into Jet's HVAC systems. The low bay AHU's were externally mounted and the high bay units externally mounted, incorporating balanced flue heat exchangers.

## Specific requirements:

- Densely racked 27m high bay
- Smoke dispersal system
- External AHU's with balanced flue heat exchangers in high bay
- Internal AHU's in low bay

## Technical Data

Data	High Bay	Low Bay	Total
Length (m)	182	397	
Width (m)	105	182	
Average height (m)	27	17.4	
Floor area (m <sup>2</sup> )	19110	72254	91364
Volume	501638	1184966	1686603
Number of units/ systems	3	4	7
Heater types	Indirect Gas	Indirect Gas	