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www.jetenvironmental.com
Jet Environmental designs, manufactures, installs and maintains heating, ventilation and cooling systems for large volume, open plan industrial, commercial warehouses and pharmaceutical buildings. We have installed systems in some of the largest logistics and pharmaceutical warehouses, retail stores, museums, leisure facilities and production sites in the UK and Ireland.

Our customers buy our products because they are designed specifically for their needs, perform as they should reliably for many years and are installed quickly with minimum disruption.

Often running 30% more cheaply than alternative systems, Jet helps its customers save energy and contribute toward their carbon emission goals. We do all of this and maintain a competitive pricing policy.

Who’s Who?

Jason Hibbs
Managing Director

Tony Gilbert
Technical Director

Andy Plevey
Project Manager

Steve Ball
Operations Director

Robert Simpson
Director

Janet Simpkins
Contract & Maintenance Co-ordinator
Services

Jet Environmental Systems provide bespoke system design, installation and maintenance of complete jet air induction temperature control systems.

Balanced Jet Air Induction Systems
Jet’s balanced jet air induction system provides energy efficient, tightly controlled, low stratification temperature conditioning and is at the heart of the majority of our solutions.

Temperature Monitoring Reporting & Control
Temperature monitoring is an important element of both pre and post system installation. If you are unsure of temperature levels in your buildings and on mezzanine floors, Jet Environmental can provide full temperature mapping of any building space to help you understand the real situation 24 hours a day 365 days a year.

Displacement Ventilation
Jet’s displacement ventilation systems are popular in manufacturing buildings where high heat gains from machinery and people accumulate to create temperatures that are unsuitable for staff.

Small Space Heating, Cooling & Ventilation
At Jet Environmental we realise that not all businesses operate in huge buildings, which is why we’ve introduced bespoke temperature control solutions designed and built with the same care and skill as our large systems.

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Jet Environmental offers a full temperature control system design package for operations outside of the UK.

Our system design package includes site assessment visits, full drawings, system specification and the supply of key jet air induction components. Our heating, ventilation and cooling solutions can be applied in any climatic region throughout the world and the benefits of our free cooling designs apply in any temperate region.

Jet Environmental partner with end user, consultant and contractor organisations to allow the benefits of air induction technology to be incorporated in projects outside our normal contracting region.

If you would like to take advantage of Jet Environmental’s innovative system design and support package please contact us with an outline of your project, building drawings, together with heating and cooling load assessments and we’ll guide you through the next steps.
Service, Maintenance & Lifetime Support

Jet Environmental’s in-house maintenance team can co-ordinate a planned maintenance schedule of your system.

With spares and consumables ordering to support your servicing needs, our team provides hassle free assurance of life long, efficient running of your Jet system and eliminates the need for you to hold spare parts.

Remote monitoring of your system is an available option. We can detect any degradation in system performance before it becomes an issue and have engineers on site to remedy any problem.

Lifetime support packages can be discussed on purchase of your Jet temperature control system.
Applications

Jet provides solutions for a broad range of facilities. Listed below are a selection of the most popular applications, however if your particular application is not listed, contact us to discuss your requirement.

- Warehouse & Distribution Centres
- Pharmaceutical Warehouses
- Production Facilities
- Leisure & Exhibition Centres
- Aircraft Hangars
Warehouse & Distribution Centres

Warehouse and distribution centres vary in size, complexity, levels of automation and numbers of warehouse operatives, as well as the requirements of the goods themselves.

Jet Environmental’s technical team has many years experience in designing, building and installing bespoke HVAC systems for a diverse range of storage applications.

Our aim is to provide energy efficient, innovative solutions that fully meet your operational requirements.

**Case Study: Regional Distribution Centre for DHL/Ferrero Rocher**

Location/Size: DIRFT, Northamptonshire/144,000 sq ft

Following a successful tender process late in 2011, DHL secured the Ferrero Rocher supply chain contract to distribute stock to UK distribution centres.

As the Ferrero Rocher stock, consisting of nearly 15,000 pallets, had to be stored in a temperature controlled environment, a cooling system was required to work in parallel with the heating system to maintain ambient temperature throughout the warehouse at 15°C (+/-3°C).

JET were asked to design, supply and install a high velocity induction system to provide summer ventilation and mechanical cooling to the warehouse, serving both the racking and dispatch areas. This comprised of two internally sited JET air handling units, with the facility to utilise both fresh and ‘return’ air - matched to two air cooled condenser units located externally. The conditioned air from the plants being routed through the space via high level ductworks systems with the air finally introduced to the space via the JET air induction nozzles.

“Jet were very well organised throughout the project, were highly detailed in their planning and preparation and worked well alongside other contractors. They remained flexible for the duration of the installation.”

Glyn Mabbut DHL Project Manager

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Pharmaceutical Warehouses

Pharmaceutical warehouses have stringent maximum and minimum temperature levels for the safe storage of drugs and therefore differ from conventional warehouses. Jet’s air induction systems are designed to meet the requirements of both the drug manufacturers and the MHRA, to temperatures that are +/-1°C throughout the space.

Case Study: New warehouses - Kent Pharmaceuticals

Location/Size: Measham, Leicestershire/ two units, combined space 90,000 sq ft

Jet was initially approached by Kent Pharmaceuticals to provide a temperature control solution at their new warehousing facility, consisting of two units with a combined floor space of 90,000 sq ft. To ensure compliance with MHRA guidelines for the storage of pharmaceutical products, the warehouses needed to maintain internal operating temperatures to between 18°C - 25°C.

Due to the size of buildings, a single Jet Air Induction System was used for both units. Both air handling units (AHUs) were mounted external to the buildings and at ground floor level to save valuable internal floor space. External summer design conditions were selected at 32°C DB/21°C WB, to ensure the plant could maintain warehouse conditions even during extreme conditions.

As the Jet Air Induction System offers such even temperature around the warehouse, normally a maximum of 4 temperature sensors (2 at high level and 2 at low level) would be installed to control the plant. In this case, a total of 14 sensors were fitted (8 in the larger unit & 6 in the smaller) as a temperature monitoring system was also installed to provide continuous monitoring and recording across both sites.

“On taking on both warehouses, we had the opportunity to address our temperature control requirements and Jet responded quickly. They were meticulous in their planning and both installations were trouble free.”

Jason Atkins Facilities Manager - Kent Pharmaceuticals

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Production Facilities

Heating and ventilation requirements for production facilities are varied depending on operational processes, occupation and product requirements. Many solutions are required to reduce absenteeism through uncomfortable working conditions, or reducing product quality issues caused by variable temperatures.

Jet’s bespoke solutions are designed around your requirements to provide even temperatures throughout the space; recirculating existing heat sources to reduce heating bills and high ventilation rates to provide economic cooling. By design, our air distribution systems are unobtrusive, operating at high level with no maintenance required.

Working around operational spaces and shift times, our experienced team will ensure your installation is a pain free experience.
Leisure & Exhibition Centres

Jet Environmental’s bespoke solutions fit around modern building designs or established structures. We work with consultants and main contractors to develop and install highly flexible systems.

Jet are highly regarded for innovative design and skilled installation. With the ability to re-use existing heat and offer high levels of ventilation quickly, Jet’s solutions are ideal for energy efficient rapid comfort temperature control.

Aesthetically unobtrusive, energy efficient, rapid comfort control are key features of a Jet solution.

Case Study: Exhibition space - Imperial War Museum

Location/Size: London/12,400 m²

Jet provided heating, ventilation and humidity control for the refurbished and extended Hangar 1 at the Imperial War Museum which houses thirty British aircraft including Concorde. Jet deployed six Balanced Jet systems with Jet AHU’s incorporating LPHW heating coils, space for future cooling coils and carbon filters to meet the exacting climate conditions of the museum.

Jet was appointed by consultant Connell Mott MacDonald and worked with M&E contractor Aqua Mechanical Ltd and main contractor Laing O’Rourke to provide a museum specification HVAC solution.

Specific requirements included:
- CFD modelling of air flows for heating and cooling
- Jet specification air handling systems
- LPHW heating coils
- Carbon filters

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Aircraft Hangars

Hangars are extremely varied in design, accommodating a variety of aircraft of different shapes and sizes. Sometimes over 30 meters high with large doors, hangars pose problems when it comes to maintaining the internal climate. The main criteria for these buildings is usually rapid temperature recovery following doors opening and closing.

To overcome this, the Jet induction system is designed with a boost facility to rapidly recover the desired temperature.

**Case Study: RAF Coningsby**

**Location/Size:** Coningsby/2931 sq m

In securing the contract to provide both heating and ventilation to the Domestic Services Flight (DSF) & the Battle of Britain Memorial Flight (BBMF) stores at RAF Coningsby, proves that JET is able to compete successfully across markets and to a varied customer base.

This project focussed on providing two Jet air induction systems, both of which were engineered to meet specific building and application criteria. The systems will maintain the stores at a temperature of 16°C during the winter and are capable of providing full fresh air in the summer to limit internal temperatures. The first system currently serves the main BBMF & DSF stores areas, with an additional system serving a smaller area which comprises the Barracks Shop, Laundry and Clothes Store.