

# John Crane case study



Factory, offices and server room - it's a cool solution all round for John Crane



Air Conditioning  
**Evaporative Cooling**  
Heating  
Ventilation  
Maintenance



Winners of the 2006 Queens Award for Enterprise, John Crane are a world leading company who provide engineered products and services to industries which include oil, gas, chemicals and pharmaceuticals. John Crane is a part of the global engineering business Smiths Group, who employ around 22,000 people in over 50 countries.

At the recommendation of an existing client, Hewland Engineering, Clean Air were asked to reduce the temperatures of their stores and machining areas. In just four weeks twelve Cool Breeze QAD230 units were fitted, alongside a pair of extract fans that complement the existing passive roof ventilation units. Now staff enjoy a cool work environment and benefit from the natural fresh air that is continually introduced and circulated around the factory floor. Each Cool Breeze unit is individually controlled to provide different temperature zones between the areas.

The results proved so impressive that the factory became a more comfortable environment than the large open plan offices. These were being cooled using an old water chiller that supplied numerous indoor fan coils. Like many pre 2002/3 air conditioning units it used R22 as its refrigerant - an issue that

needed to be addressed since virgin R22 is now prohibited for servicing or maintenance. Another problem was reliability - regular breakdowns meant high running and maintenance costs.

Having visited another Clean Air installation at Scantech, John Crane was confident to accept Clean Air's recommendation to install an evaporative cooling solution for their offices. It was not long before four Cool Breeze QAD230 units had transformed the workplace. Cool, fresh air is now delivered through flexible spiral ducting that terminates with numerous grilles within the suspended ceiling in all areas of the office.

The result is not just a comfortable working environment and contented staff, but also energy savings of up to 80% and low maintenance costs. Great news financially and an important contribution to meeting John Crane's environmental targets.

Clean Air have now turned their attention to John Crane's large server room, currently cooled by old air conditioning systems. A Cool Breeze evaporative cooling system is being designed which will provide reliable and cost effective cooling within a close temperature and humidity controlled environment.

CLEAN AIR GROUP

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