



CASE STUDY  
**AMAAD  
BUSINESS PARK**



**PROJECT**

AMAAD Business Park - KFUPM,  
Dhahran, Saudi Arabia

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**CLIENT**

DTVC - KFUPM Business  
Park Company

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**PRODUCT**

SQF, SQFTA (Twin Fan),  
NALTM, Smoke Axial, Axial  
and Cyclone Jet Fans

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**APPLICATION**

Car Park and Smoke Ventilation;  
Ambient Ventilation

**Nuaire Provides Energy Efficient  
Ventilation Solutions for AMAAD Business  
Park in Saudi Arabia**

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AMAAD Business Park is an energy and engineering hub which has been designed to facilitate sustainable urban growth. Located in Dhahran, Saudi Arabia, this sleek, modern ecosystem features residential, hospitality, food and beverage, retail and office buildings. It is situated within walking distance of Saudi Aramco, King Fahd University of Petroleum and Minerals (KFUPM), and Dhahran Techno Valley (DTV), who partnered up to develop the AMAAD Business Park as part of Saudi Vision 2030.

We pride ourselves on going above and beyond for our clients, to deliver bespoke solutions which meet each project's specific needs. So, when we were chosen as the ventilation systems partner for three of AMAAD Business Park's six Parcels, we were able to deliver the best-suited products from across our extensive portfolio.

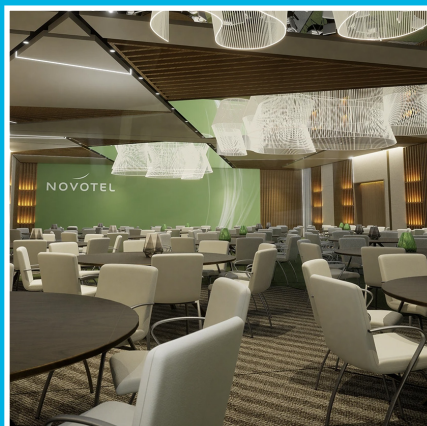
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Safety, innovation and efficiency are at the core of our work. Each of the contracted Parcels - 01, 03 and 04 - feature a large car park, requiring state-of-the-art smoke extraction and ventilation fans. Smoke ventilation systems were also required for the service tunnels running underneath each Parcel.

Even today, vehicles produce a surprising amount of harmful pollutants. Without an effective ventilation system in place, the air quality in enclosed spaces with large traffic volumes, such as car parks, can quickly deteriorate. To combat this, we installed 2-speed induction fans in each car park and service tunnel to contain, channel and remove smoke and toxic gases.

These fans were selected primarily for their power and speed, tested and certified to 100N to provide the highest level of thrust available in the market. And, although jet fans consume more energy, less units are required overall due to their 50 metre throw distance. This results in reduced project installation and maintenance costs, as well as significant energy savings.

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For fire emergency situations, we installed AXUS Smoke Axial fans. Our bespoke Axial Configurator software allows us to select bespoke products to meet the requirements of individual spaces. These fans can withstand temperatures up to 400°C, and have been tested to meet ISO 5801:2017 standards for air performance.

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For ambient, day-to-day building ventilation, we implemented SQFTA twin fans and NALTM tube fans. These market-leading fans are still the smallest, quietest and most energy-efficient, making them ideal for spaces which require 24/7 ventilation such as kitchens and toilets. With our twin fans, we were also able to provide the value-added benefit of EcoSmart, the UK's most successful energy control. This simple mechanism provides customers with complete demand control ventilation. Its 'trickle and boost' function also reduces power consumption - and therefore operational costs over time to provide long-term product value.

We bring exceptional technical support and quality to each of our projects, and our commitment to continuous improvement has been recognised with accreditations from leading organisations. In fact, we were the first British company in our industry to achieve AMCA and BSI accreditation. We were proud to deliver on our reputation for outstanding customer service for AMAAD Business Park.

