



ErP2015 READY | -50/60°C | ATEX | 304 ST/STEEL | 316 ST/STEEL | OFFSHORE | OFFSHORE ATEX

LOW TEMPERATURE | CUSTOM DESIGN | COOLERS | CONDENSERS | IP56 | 60HZ | COLD STORES | BLAST FREEZERS

OEM SOLUTIONS



Nuaire is a world leader in the development and manufacture of fans and ventilation systems. With roots stretching back to the 1920s and a tradition of excellence in ventilation since 1963, the Nuaire name has been at the forefront of the industry worldwide for more than 40 years.

**NUAIRE MISSION**

WE ELIMINATE THE RISK AND HIGH COST OF VENTILATION, BY DESIGNING AND MANUFACTURING INNOVATIVE PRODUCTS, OPTIMISING AIR QUALITY AND ENERGY CONSUMPTION FOR ALL YOUR APPLICATIONS.



With its roots in fans and mechanical ventilation products, Nuaire has progressively expanded its range and extended its capability to encompass technologies at all levels of ventilation solutions. It is the only company able to offer the complete ventilation solution for the built environment.

The company is renowned worldwide for its expertise, commitment to innovation and the outstanding quality of its products and customer service. People are at the heart of Nuaire, and the company has over 450 staff at its UK headquarters and has technical sales engineers in all major cities throughout Britain, as well as dedicated partners across the globe. Its committed staff include leading experts who are constantly setting new standards for the industry by developing new, innovative products in the company's research and development department – the largest and most advanced in the UK.

This passion for excellence ensures a large, loyal and growing customer base in the UK and overseas and has been recognised by numerous awards.

#### QUALITY

Nuaire embodies the 'gold standard' of quality, which has earned British engineering and manufacturing its reputation for excellence around the world. Indeed, Nuaire was the first fan manufacturer in the world to achieve the quality standard ISO 9001, and its commitment to quality remains embedded in all aspects of its operations.

Business is growing by 15% annually and the company is on course to double in size within four to five years, mainly through the development of innovative new products, which set the standards for energy efficiency and reduced carbon emissions.



### FOOD PROCESS / COOLING AND CONDENSING



Our fan range has been developed over many years of working in close cooperation with key OEM and installation partners.

We work hard to provide the optimum fan solution for your product, application and process, and our fan designs are governed by the stringent hygiene requirements in operation within the food process industry.

With the need for process wash-down considered, our fan range is ErP2015 compliant and has been developed to cater to a wide range of fluctuations in the ambient air conditions, whether these are caused by changes in temperature or condensation.

#### Applications include:

- BLAST FREEZERS
- BAKERIES
- DRYERS FOR GRAIN, BARLEY, CEREALS AND COFFEE
- SPIRAL FREEZERS
- FISH, POULTRY, PORK PROCESS COOLING

### HIGH TEMPERATURE



Nuaire offers a comprehensive range of high temperature fans, catering for a wide scope of temperature demands stipulated by global legislation and fire strategy.

High temperature ranges are EN12101-3 & AMCA accredited 200/2hr, 300/2hr + day to day environment extract.

#### Applications include:

- CAR PARKS
- PRESSURISATION SYSTEMS
- DUCTED INSTALLATIONS
- ROOF EXTRACT

### ATEX



Nuaire has developed a complete range of axial flow fans suitable for use in potentially explosive atmospheres. Our ATEX fan designs are underpinned by an in-depth knowledge of the stringent environmental guidelines and the hazardous conditions that the fans are required to service.

The comprehensive range at our disposal enables us to supply the optimum solution for your application, developed for both inland and offshore application whether ducted free inlet / outlet installations. Our fans have been designed and built in accordance with the ATEX Directive 94/9/EC and can be fully tailored to your application and environmental requirements.

#### Applications include:

- MARINE AND OFFSHORE OIL DRILLING / PRODUCTION PLATFORMS
- OIL AND GAS REFINERIES
- WATER AND SEWAGE TREATMENT
- PAINT ROOMS
- BATTERY ROOM VENTILATION AND REFRIGERATION
- CHEMICAL PROCESS PLANTS
- GAS TURBINE AND ENGINE ENCLOSURE COOLING
- POWER STATIONS
- GRAIN PROCESSING

At Nuaire we don't just offer a product; we take pride in offering valued added solutions to customers with the aim of creating long term partnerships. Our full service includes working closely with you at every stage of the development process, offering both a comprehensive fan range and service with a flexible approach.

#### CUSTOM DESIGN



The latest manufacturing technology and accredited test facilities enables us to offer a flexible approach to the design and build of the right fan solution. Our focus is not only on the fan solution, but on its interface with the customer's equipment and manufacturing process, resulting in a reduction in assembly costs in most cases.

#### We can offer:

- BESPOKE CASE DESIGN
- BESPOKE SHEET METAL FABRICATION
- PRE-WIRING FOR INTERFACE WITH THE ORIGINAL EQUIPMENT
- A RANGE OF MATERIAL OPTIONS FOR ALL APPLICATION REQUIREMENTS
- CLIENT SPECIFIC TESTING
- BESPOKE FAN SELECTION SOFTWARE

#### AVAILABILITY AND DELIVERY



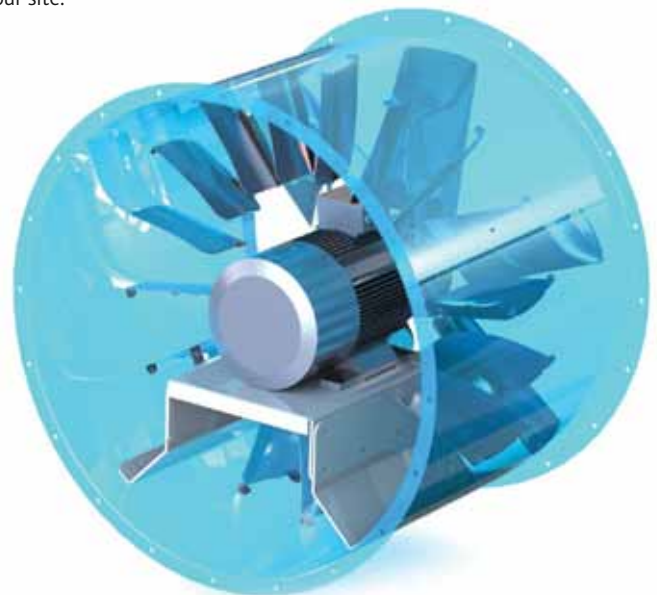
Many of our OEM products are available in three weeks ex-stock, helping you to meet short project deadlines.

Key components are kept in our factory in the UK, which means that you receive the best possible delivery dates, while our specialist team are fully conversant with export documentation, ensuring a smooth, trouble-free process from official order right through to delivery at your site.

#### DEDICATED TECHNICAL SUPPORT TEAM



To support all fan and project requirements, we have a technical commercial team dedicated to providing the optimum support and service to our valued OEM customers.







Nuaire is renowned for its attention to detail and has over 30 years experience in delivering Nuaire equipment from the UK to worldwide destinations. Nuaire has a dedicated customer service team working to ensure the highest standards demanded by the export market are met, ensuring that your goods arrive on time and in pristine condition.

#### DELIVERING TO YOU

An expert team of partners, covering countries and regions around the world, provide a dedicated point of contact for overseas customers, providing a customer care delivery package, which sets a new standard for the ventilation industry.

All of Nuaire's component suppliers are committed to ensuring our schedules are met so that we can meet your requirements.

- All goods are expertly secured by a team of professional packers ensuring your equipment is received in pristine condition ready for installation
- Partners with all major shipping lines and airlines ensuring the quickest most cost efficient deliveries
- All deliveries co-ordinated to meet your specific requirements and construction programme
- Specialist team fully conversant with all documentation requirements ensuring you have a smooth trouble free process from official order right through to delivery at your site

**NUAIRE IS PASSIONATE ABOUT CUSTOMER SERVICE AND ESTABLISHING LONG TERM PARTNERSHIPS.**







Offshore motors are suitable for  $-30$  to  $+60^{\circ}\text{C}$  with PTC thermistors for constant and variable speed control by inverter and IP56 complete with offshore heavy seas paint finish.

- EXD, EXDE, EXN, EXE (Gases) zone 21, zone 22 (Dust)
- Stainless steel case construction (304 & 316) with Naval Brass impeller track for offshore applications available in long and short cased design with bellmouth inlet
- Sizes available 400mm up to 1800mm impeller diameter
- Bespoke ATEX offshore fan selection software
- Aerofoil impeller with adjustable pitch angle
- Die cast aluminium hub and blades with option for offshore paint
- Spun flanges for high rigidity to DIN 24154 series 3
- Inspection door to verify correct direction of rotation
- Adjustable pitch impellers enables wide performance and optimum flexibility to meet the application requirements
- Fans are certified in accordance with ATEX Directive 94/9/EC
- Short delivery time



The ErP Directive is coming soon  
and is your fan provider ErP Compliant?



ErP stands for Energy Related Products and is an EU directive for the eco design of Energy Related Products.

The aim of the directive is to provide consistent EU-wide rules for improving the environmental performance of products by setting minimum efficiency standards.

All products with a power input between 125W and 500kW will be affected by ErP with the first phase of the directive being introduced in January 2013 and second (biggest) part coming in January 2015.

Any fans that do not comply with the efficiency guidelines under the ErP Directive in 2013 and 2015 will not be permitted to be sold after these dates.

We are pleased to announce that Nuairé will be ErP 2015 compliant by 2013.



#### ATEX / OFFSHORE

Nuair has designed a complete range of axial flow fans suitable for use in potentially explosive atmospheres, these units are manufactured and supplied in accordance with ATEX Directive 94/9/EC.

- ATEX COMPLIANT RANGE
- EXDE, EXD, EXE, EXN (GASES)
- ZONE.21, ZONE.22 (DUST)
- 304/316L STAINLESS STEEL CASE AND IMPELLER OPTIONS



#### COOLING & REFRIGERATION

Nuair has extensive experience in providing the right fan solution for applications such as air cooled condensers, chillers, & blast freezers.

- -50/+60°C (STOP/START) MINIMUM OPERATING TEMPERATURE STANDARD
- HOT DIP GALVANISED STEEL CASE CONSTRUCTION
- PTO THERMOSTAT THERMAL OVERLOAD FITTED AS STANDARD
- IP56
- IE2 EFFICIENCY - TYPICAL DELIVERY PERIOD 3 WEEKS EX-STOCK



#### AGRICULTURE

Dryers for Grain, Barley, Wheat, Oil Seeds, Cereals and Coffee. Coolers for potatoes and Ventilation in Horticulture are just some of the Agricultural applications where Nuair has the right fan solution.

- SPECIAL BELLMOUTH CASE DESIGN
- EASY MAINTENANCE
- ROBUST CORROSION RESISTANT CONSTRUCTION
- IE2 EFFICIENCY AS STANDARD



#### FOOD PROCESSING

A large range of impeller designs and motors are available, providing a cost effective, efficient, low noise fan assembly for your equipment. Fan cases are not only available in hot dip galvanised steel as standard, but 304 & 316 stainless steel.

- -50/+60°C (STOP/START) MINIMUM OPERATING TEMPERATURE STANDARD
- CASE MATERIAL OPTIONS IN 304 & 316L STAINLESS STEEL
- NATURAL ALUMINIUM FINISH MOTOR (NO PAINT)
- IMPELLER MATERIAL OPTIONS IN ALUMINIUM, PAG & PPG
- IE2 EFFICIENCY - TYPICAL DELIVERY PERIOD 3 WEEKS EX-STOCK
- IP56





### POWER GENERATION

Nuaire can provide the right fan solution for all electro-mechanical cooling requirements with fan diameters ranging from 250-2000mm, all designed and tested specifically for power generation, load bank and heat exchange applications.

#### ■ EXTENSIVE RANGE OF SOLUTIONS

#### ■ AMBIENT TEMPERATURES UP TO 90°C

#### ■ ROBUST CONSTRUCTION (HDG, 304, 316L)

#### ■ DUAL VOLTAGE, DUAL FREQUENCY FOR WORLDWIDE ELECTRICAL SUPPLY



### TECHNICAL SUPPORT TEAM

Get the right OEM solution for your business by working in partnership with Nuaire's experienced, committed and dedicated Technical Support Team.

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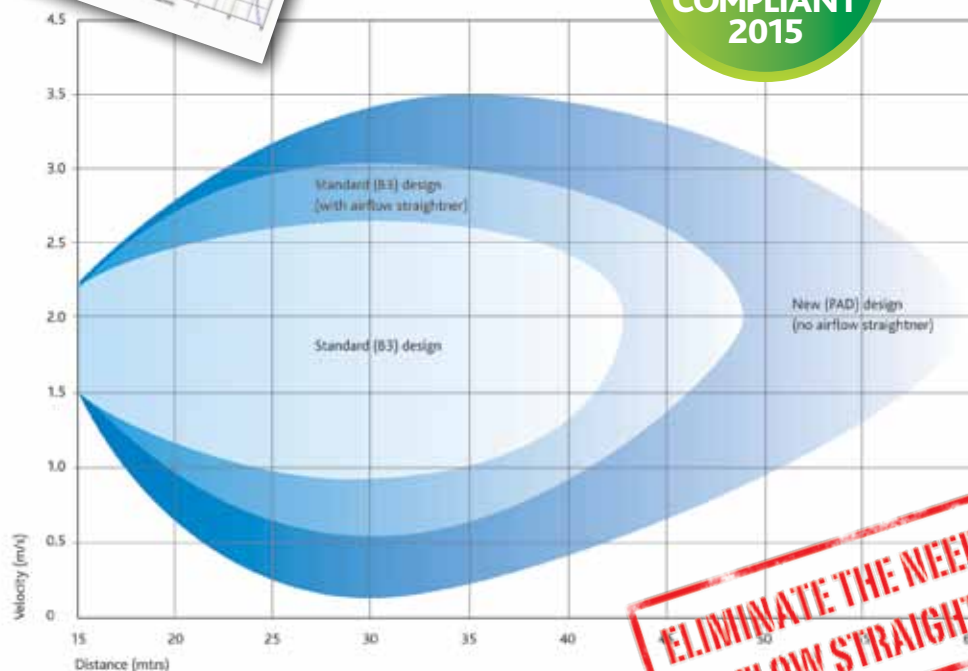
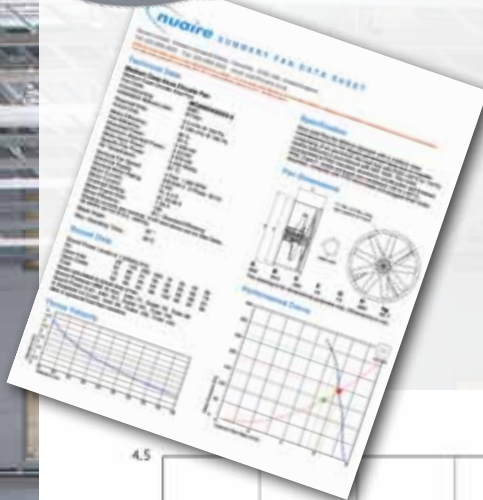
E nia.stephens@nuairegroup.com



Nuaire's innovative patented new fan design combines a unique aerodynamic mounting system with the latest design in impeller technology.

This combination results in enhanced Air flow patterns providing a more efficient and effective air distribution through all storage facilities. This coupled to the greater operating range of the Nuaire fans provides a solution for all storage applications.

- **Cost effective solution** - Reduced number of units
- **Energy efficient solution** - fewer units means less energy used
- **Lower running costs** - new technology increase the efficiency of the system
- **Quick installation** - due to reduced quantity of fans required
- **Space saving** - less impact on the fabric of the cold room or storage area



**ELIMINATE THE NEED FOR AIRFLOW STRAIGHTENER**





## ALL PRODUCTS TESTED TO YOUR APPLICATION

The company's rigorous product testing regime is unrivalled in the industry, which is hardly surprising given multi-million pound test facilities considered to be amongst the most modern and comprehensive in the world.



It's all designed to ensure that our customers benefit from the best ventilation solutions on the market today. The facilities have been designed to meet the latest industry standards and carry the appropriate approvals including those from the British Standards Institute and the Air Movement and Controls Association.

The two reverberant chambers at the facility (Type D and Type A configurations) test for both aerodynamic and acoustic performance, allowing Nuaire to self-certify products, as well as ensuring that products meet the high standards consistent with Nuaire's reputation.



Amongst the parameters that are subject to detailed testing are air volume and pressure as well as noise, power consumption, vibration and electromagnetic compatibility.

All products are subjected to rigorous testing both during development and production. Nuaire's OEM products are tested specifically to their application. The clarity and integrity of our test data is therefore second to none and ensures your designs are accurate against your industry standards.

Nuaire has a long standing relationship with BSRIA who choose Nuaire's facilities for their own independent testing.

**FOR MORE INFORMATION**

[www.nuaire.co.uk](http://www.nuaire.co.uk)

**COMMERCIAL**

[www.nuaire.co.uk/commercial](http://www.nuaire.co.uk/commercial)

**AIR HANDLING UNITS**

[www.nuaire.co.uk/ahu](http://www.nuaire.co.uk/ahu)

**RESIDENTIAL**

[www.nuaire.co.uk/residential](http://www.nuaire.co.uk/residential)

**OEM**

[www.nuaire.co.uk/oem](http://www.nuaire.co.uk/oem)

**FAN SELECTOR**

[www.nuaire.co.uk/fanselector](http://www.nuaire.co.uk/fanselector)



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As part of our policy of continuous product development Nuaire reserves the right to alter specifications without prior notice.  
Telephone calls may be recorded for quality and training purposes.