



Our Capabilities

**ELTA**



Privately owned and managed with enthusiasm, drive and determination, Elta is an internationally recognised brand committed to leading the world in product and technical ingenuity through our operations in Europe, Asia and Australasia.

**Elta has been designing and manufacturing market-leading ventilation products for over five decades and at Elta Ireland we also stock products of carefully selected partners to provide a full ventilation offering.**

Guided by our founders' belief in putting the customer's needs first and their dedication to innovative engineering, we now field one of the most comprehensive and flexible ranges of ventilation products available on the market today.







# OUR MANUFACTURING CAPABILITY

Since 1974, Elta has been at the forefront of creating top-quality fans through technical innovation, quality manufacture, and exceptional customer service. Fan manufacturing forms the core of our business, and is the heartbeat of our products. We pride ourselves on providing a comprehensive range of industrial, commercial, and domestic ventilation products directly from stock, and we also offer an extensive selection of standard and specialist products, ranging from ATEX requirements, to car park ventilation, and emergency extract applications.

Our commitment to manufacturing excellence extends beyond fans. We have the expertise and capability to design and manufacture acoustic solutions, control panels and a full range of fan accessories tailored to meet the unique requirements of any application. At Elta, versatility and precision define our manufacturing capabilities, ensuring we deliver optimal solutions for all your projects.

With our manufacturing sites located across the UK and Europe, we pride ourselves on unbeatable lead times, ensuring that your projects are executed efficiently by our own exceptional team.



Kingswinford

Fareham

Colchester

Northern  
Ireland

Ireland



## TRADE COUNTER

**Experience efficiency and convenience firsthand at our dedicated Trade Counter located at our Dublin site.**

Here, customers can easily collect high-quality industrial fans and commercial ventilation products directly from our stock. Our knowledgeable team is ready to assist you, ensuring a seamless and swift transaction.



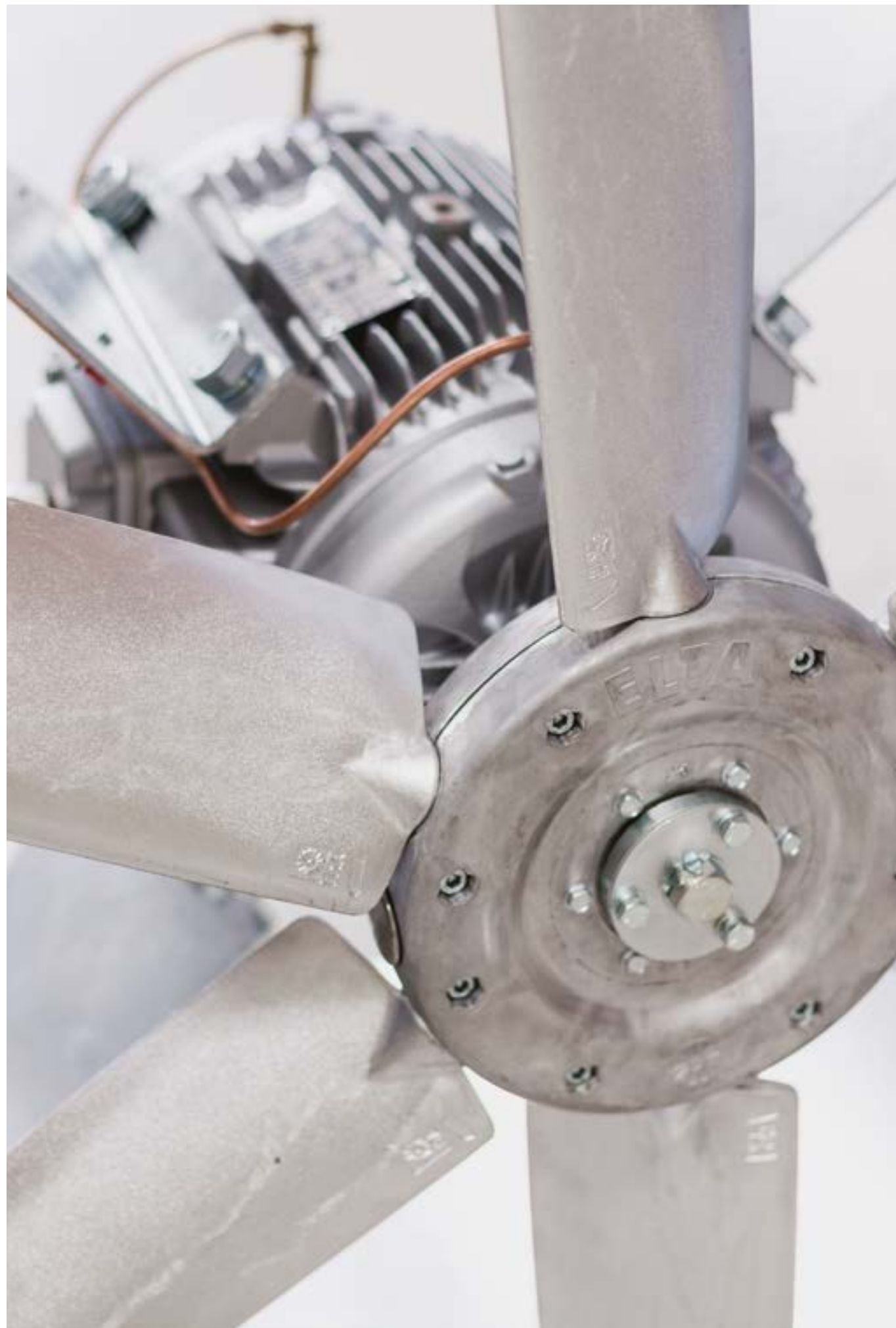
# FANS

For over 50 years, Elta has been creating fans of the highest quality that are based on technical innovation, quality manufacture and customer service. It's the core of our business and the heartbeat of our product.

We provide a comprehensive range of industrial, commercial and domestic ventilation products directly from stock. In addition we also offer larger standard and specialist products, ranging from ATEX requirements to car park ventilation and emergency smoke extract applications.

Plate Fans	Cased Fans	In Line Circular Fans	In Line Box Fans
High Temperature Fans	Hazardous Fans	Window & Wall Fans	Axial Fans
Roof Fans	Bifurcated Case Fans		





## SMOKE FANS

Elta are a major supplier of axial flow fans for smoke ventilation, specifically developed for emergency smoke extract systems.

Our fans can operate as part of the main extract system, or as dedicated fans for emergency clearance in hazardous fire, smoke and fume conditions. With three manufacturing facilities certified to EN12101-3 for Smoke Ventilation, Elta can supply units tailored to regional and project specifications as required.

Diameters  
from 315mm  
to 2000mm

Single or  
two speed  
operation

Single or  
two stage

Prefabricated  
options

200°C,  
300°C, 400°C  
operating  
temperatures

A range  
of motor  
mounting  
arrangements

Compliant  
inverters

Compliant  
silencers for  
smoke



# CAR PARK FANS

We manufacture a range of fans including axial and centrifugal variants for both general ventilation and emergency situations in car park applications.

Our range includes induction and impulse ventilation models specifically developed to operate as both general ventilation and for once-only, emergency extract mode at temperatures of up to 400°C.

We take an integrated car park ventilation solutions approach. Talk to us about application advice, layouts, CFD analysis and controls methodology.

20N, 50N & 100N sizes	Truly reversible or unidirectional airflow	AC motors available	CFD available
All impulse fans 300/2 or 400/2	Isolator switch or terminal box variants	Flanged or unflanged units	VFD & Controls





# ATEX FANS

Manufactured to meet the requirements of the ATEX Directive, IEC standards and EN14986, our comprehensive range of axial fans for hazardous applications carry the correct equipment marking for the region and zone they are designed to operate in.

Our ATEX fans are designed and built to the exacting Area, Zone and Category requirements of a given project and utilise components that are certified under ATEX. Additionally, our manufacturing capabilities allow us to meet specific overseas hazardous classifications with a variety of flexible component options.

Diameters  
from 315mm  
to 2000mm

Long &  
short case  
variants

Belt-driven  
construction

Bifurcated,  
plate & cased  
construction

Specially  
certified  
terminal  
boxes

Spark minimising  
track

Specialist  
paint  
treatments

Aluminium,  
stainless steel  
or carbon loaded  
polypropylene  
blades

## Gas

Area – Zone 1 gas category 2G with  
electrical equipment Ex d, Ex de &  
Ex e  
Area – Zone 2 gas category 3G with  
electrical equipment Ex nA

## Dust

Area - Zones  
21 & 22  
category  
2D & 3D

Thermistor  
protection &  
specialist  
motors



# RESIDENTIAL VENTILATION

We provide a residential range of ventilation designed to comply with building regulations and prevent problems such as damp & mould. From decentralised fans to loft mounted PIV units, our Elta Trade range is dedicated to improving air quality in homes and offering a great solution to electricians, wholesalers, landlords and beyond.

Decentralised Ventilation	Single Room Heat Recovery	Centralised Ventilation	PIV
Intermittent Ventilation	Purge Ventilation	Sub Floor Ventilation	Accessories







# HEAT RECOVERY & AIR HANDLING UNITS

We offer a wide range of AHUs, Heat Recovery units and Double Heat Recovery units from Komfovent that are ErP compliant and EUROVENT certified.

From standard VERSO units with compact footprints, flat units for ceiling voids, hygienic KLASIC units, to highly efficient VERSO PRO 2 units, Elta Ireland has products suitable for all projects.

Airflows start at 0.03m<sup>3</sup>/s in our Domestic range and move up to 28m<sup>3</sup>/s in our industrial range. Heat exchanger options include Rotary Wheels, high efficiency counterflow plate heat exchangers and combined rotary wheel and built in dx heat pumps for industry leading two stage heat recovery. All units are offered with full pre-wired BMS compatible controls (both BACnet IP and Modbus RS 485) as standard.



Customisable  
units

Eurovent  
certified

Thermal  
bridging

Thermal  
transmittance

Casing sound  
insulation

In-house  
technical  
expertise

Short lead  
times with  
flat-packed  
delivery options

**komfovent**

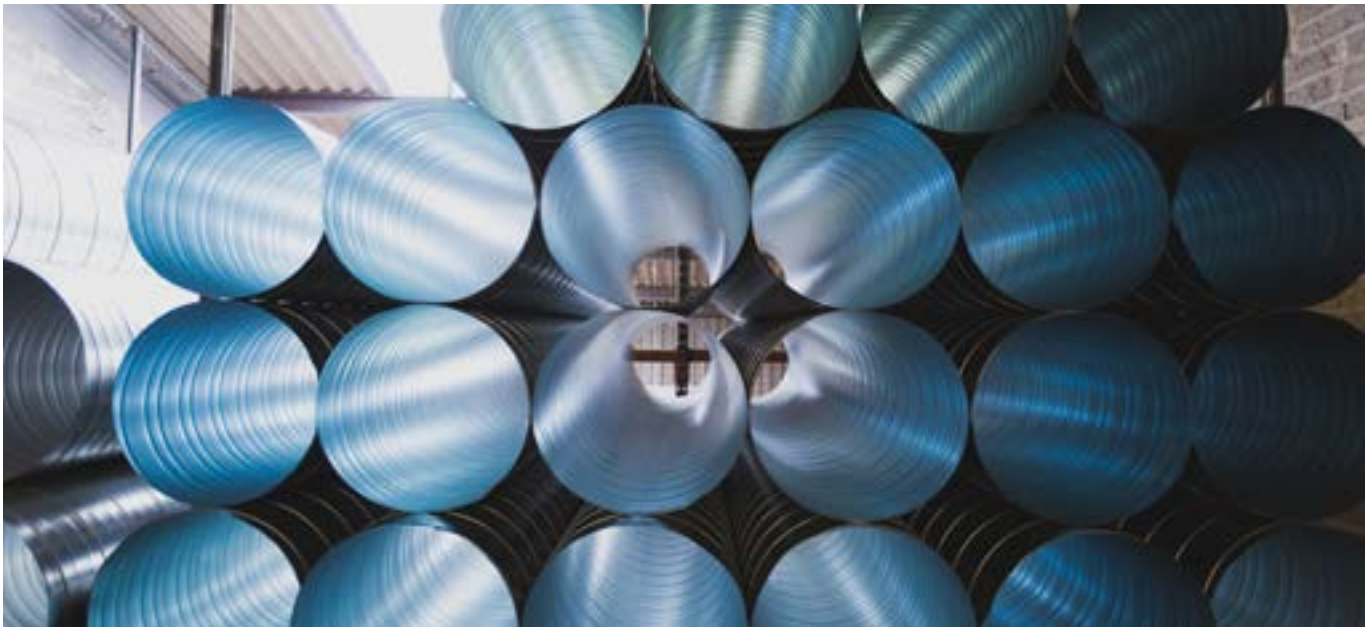
# SPIRAL DUCTWORK

At Elta, we manufacture spiral ductwork at one of our own manufacturing facilities and hold a stock of sizes ranging from 100mm dia to 1000mm dia. meaning excellent delivery times. Our manufacturing facility also allows us to build to requirements with a range of materials on offer and short lead times.

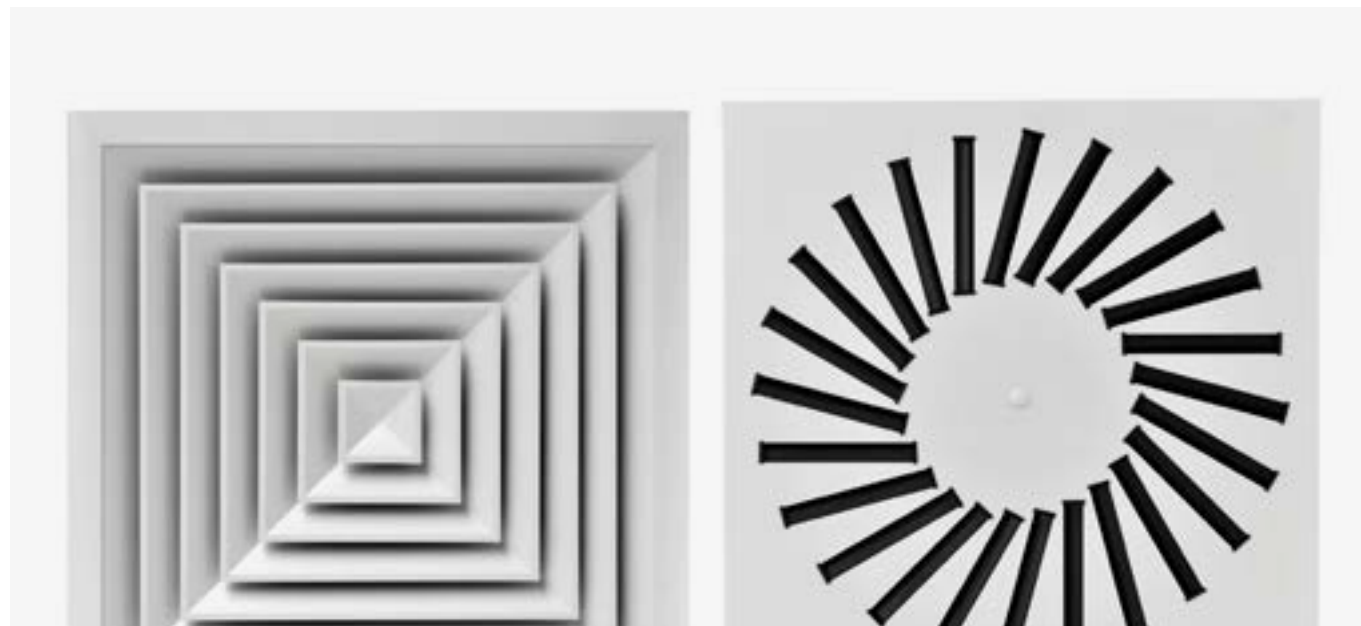
Manufactured  
to DW 144

Size range from  
100 mm dia to  
1500 mm dia.

Bespoke  
manufacturing







## DIFFUSERS, GRILLES, VOLUME CONTROL & FIRE DAMPERS

Our range of Diffusers, Grilles, Volume Control & Fire Dampers from many manufacturers to satisfy standard & bespoke customer needs.

Part of our offering is a range of Brofer CE marked fire dampers comprising of a single blade design. We can now offer 1 fire damper for installation into a concrete wall, plasterboard partition, or concrete floor. 1 damper, 3 possible installation applications. These dampers are manufactured from Galvanised steel throughout with a brass fusible link. Curtain type on request. We offer a full range of sizes.

We offer a wide range of supply air diffusers, extract and return air grilles. Including floor vents, egg crate grilles, vent covers and ceiling grilles.



# NOISE CONTROL

Our Acoustica brand offers a complete acoustically packaged system, assisted by our fan selection program that is designed to help select the components for the system through its acoustic analysis feature. Our team of experts, with over 30 years of experience in acoustics, can provide unrivaled guidance and support to solve complex noise issues, from acoustic attenuators to custom-designed acoustic enclosures.

Diameters from 315mm to 2000mm	Circular & rectangular splitter type	Enclosures	Louvres
200°C, 300°C, 400°C operating temperatures	Special materials	Consultancy services	Compliant for smoke systems







# CONTROLS, SENSORS, AIR QUALITY MONITORING & ACCESSORIES

We offer a wide range of control solutions for your application needs from manual variable voltage controls to fully integrated or remote Indoor Air Quality and Energy Recovery Management Devices. A matching range of sensors and monitors are also available to provide a complete solution.



EC & AC  
Speed  
Controllers

Gas interlock  
panels

Variable speed  
drives (Inverters)

Sensors  
(temperature,  
humidity,  
pressure etc.)

Air quality  
monitors

Bespoke  
control panels



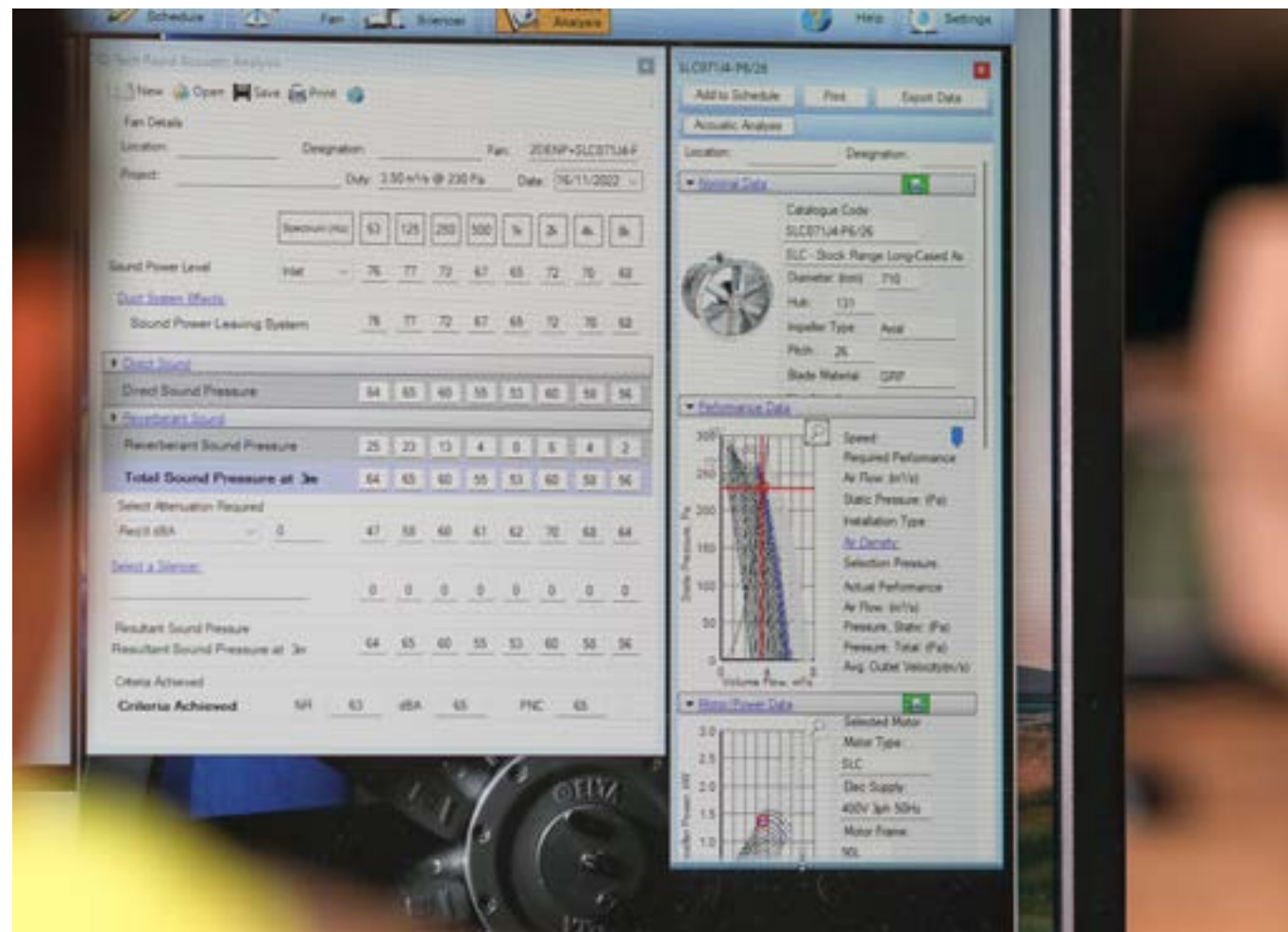
# PREFABRICATED SOLUTIONS

One order, one frame, one delivery. Our Prefabricated Solutions enhance both efficiency and productivity whilst cutting building project costs. Fans and ancillaries, including acoustic equipment, mounts, panels, flexible connections, fan controls, and more, can all be assembled offsite and delivered as a compliant assembly within a frame. Fans up to 2 metres can be supplied in a prefab configuration, all certified, with unbeatable build times. This ready-to-crane-lift package ensures a quick and safe installation process, reducing on-site time and increasing compliance.

Available with 200-2000mm fans	Quick installation with built-in crane lifting points	Multiple fan mounting configurations
Tailored control mounting options	Fitted with adjustable feet	Reduced health & safety risk
Enhance with acoustic silencers	Reduced labour costs	Reduced environmental impact



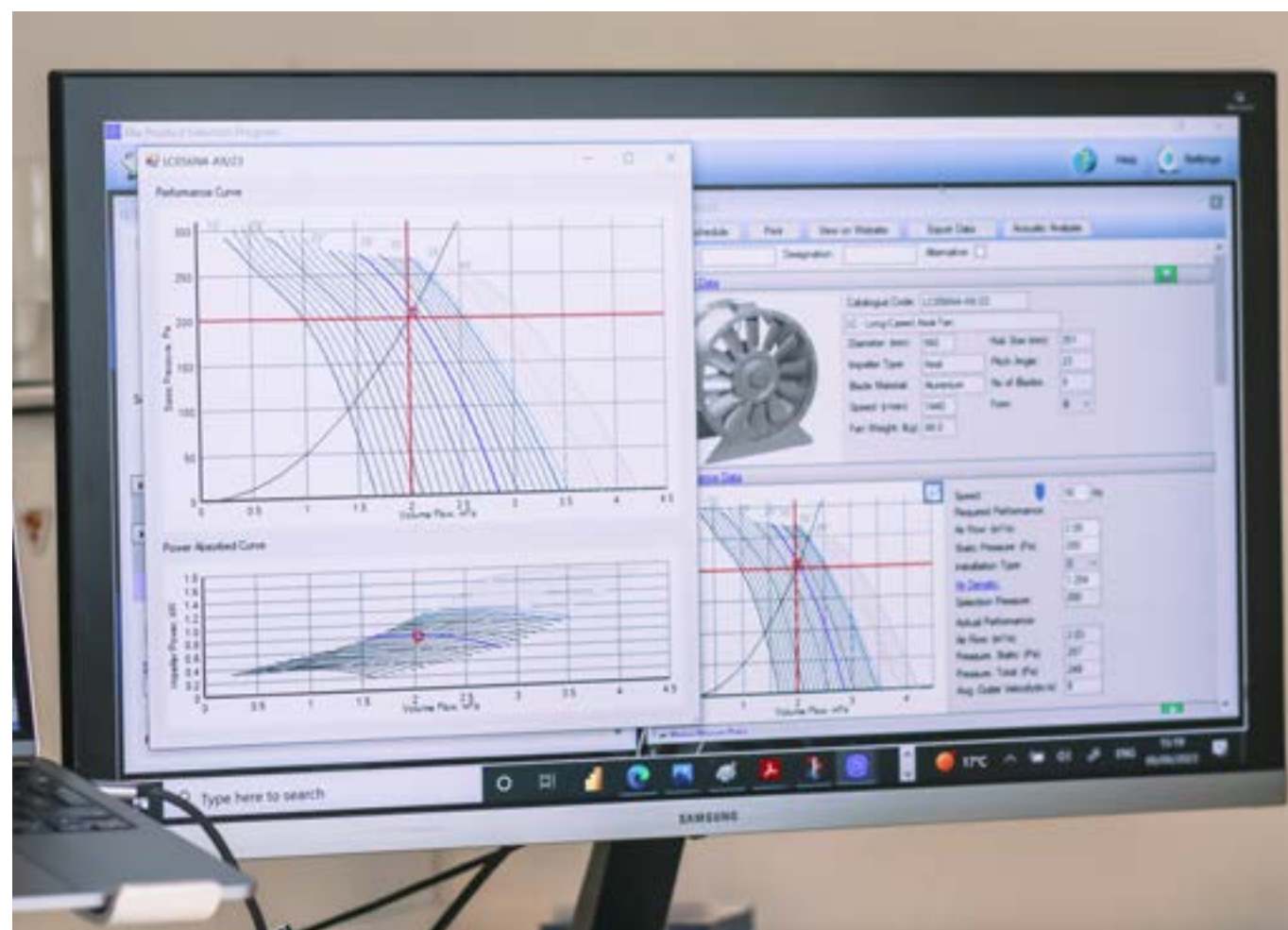




# FAN SELECTION

Built from the ground up, our Fan Selection Program was designed to make the selection process more efficient, making it easier and quicker for you to select products from our expansive range. The Acoustic Analysis tool allows calculations on simple systems to provide a rough approximation of what noise level can be expected.

Silencer selection is available through the program, to determine a suitable sound control solution. Navigating the program is easy and hassle-free, and you can save all technical data to view at any time.



Choose between basic and advanced selection modes

Design energy efficient systems with support for variable speed fans

Store all 2D .dwg and .dxf in project files in one quick step

Calculate running costs by selecting energy efficient fans

Fully integrated .pdf and excel output

View and save all technical data and recall at any time

# ENGINEERED PRODUCTS OF THE HIGHEST STANDARD

Our stringent quality standards allowed us to become one of the first fan companies to be granted the BS EN ISO 9001 certification. Today, all of our products are designed and manufactured to the latest BS EN ISO standards.

Furthermore, all of our products are strictly tested at our own dedicated laboratories to ISO 5801 (Airside Performance), BS 848 Part 2 (Sound Performance) and BS ISO 13347-2 (Reverberation Room Method), enabling us to confidently provide accurate performance data for integration into customer OEM designs.

All of our products are thoroughly tested during manufacturing and again prior to despatch, with third-party witness testing also available.





# INDUSTRIES & APPLICATIONS



## Commercial

Our range of commercial ventilation can provide the required number of air exchanges, remove solar, electrical and occupancy heat gain, and prevent the build up of CO<sub>2</sub>, odours, dust, bacteria, solvents and fumes.



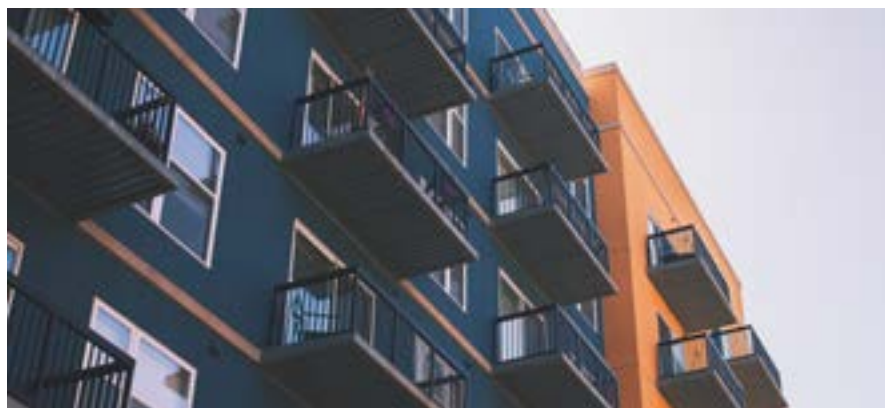
## Schools

Our units work to prevent carbon-dioxide build-ups from negatively affecting the concentration of pupils. Our units can also maintain the exact environmental conditions required for the preservation of art, artefacts and other important cultural objects.



## Leisure Centres

There is a great variety of activities that take place in any sports centre; often with a range of sports taking place in the same room requiring a ventilation system that can cope with fluctuating air changes.



## Multi Residentials

The average person spends 90% of their time indoors, with 70% being within the home. Yet, at the risk of inadequate ventilation, homes are being made as airtight as possible in order to keep down heating bills through the retention of warm air.

Multiple occupants living in one building requires a large number of individual units for kitchens and bathrooms as well as larger units able to properly ventilation corridors, hallways, lifts and communal areas.

## Healthcare and Hospitals

Ventilation is used extensively in healthcare premises for primary patient treatment in operating departments, intensive treatment units and isolation units. It is also installed to ensure compliance with quality assurance of manufactured items in pharmacy and sterile supply departments and to protect staff from harmful organisms and toxic substances.

Elta' products for medical and healthcare applications ensure clean air for the health and safety of occupants through the removal of contaminants, including infectious organisms and toxic substances.



## Kitchens

Kitchen ventilation is required to create a safe and comfortable working environment. Catering and cooking can produce significant quantities of fumes and vapours as well as large amounts of heat. Ventilation is necessary to remove these and discharge them to a safe external location.



## Car Parks

Mechanically vented car parks are designed to operate with either traditional ducted or modern impulse ventilation systems. Our car park fans operate on well-proven tunnel ventilation principles, producing a high velocity jet that, as it diffuses, imparts thrust to the surrounding air through mixing and entrainment.



## Data Centres

Whether it is a larger office building, or a smaller office environment, ventilation must provide comfortable surroundings for office staff, so occupants have a tempered, humidity controlled, quiet, as well as draught free office environment.

Computers and associated equipment generate a great deal of heat, so the ventilation design must ensure heat is dissipated effectively.

# ACCREDITATIONS

Elta are committed to conforming to the highest standards. We hold a number of internationally recognised accreditations and certifications, including:

BS EN ISO 9001  
Kite Mark — BS EN12103-3  
LPCB  
ATEX  
CompEX

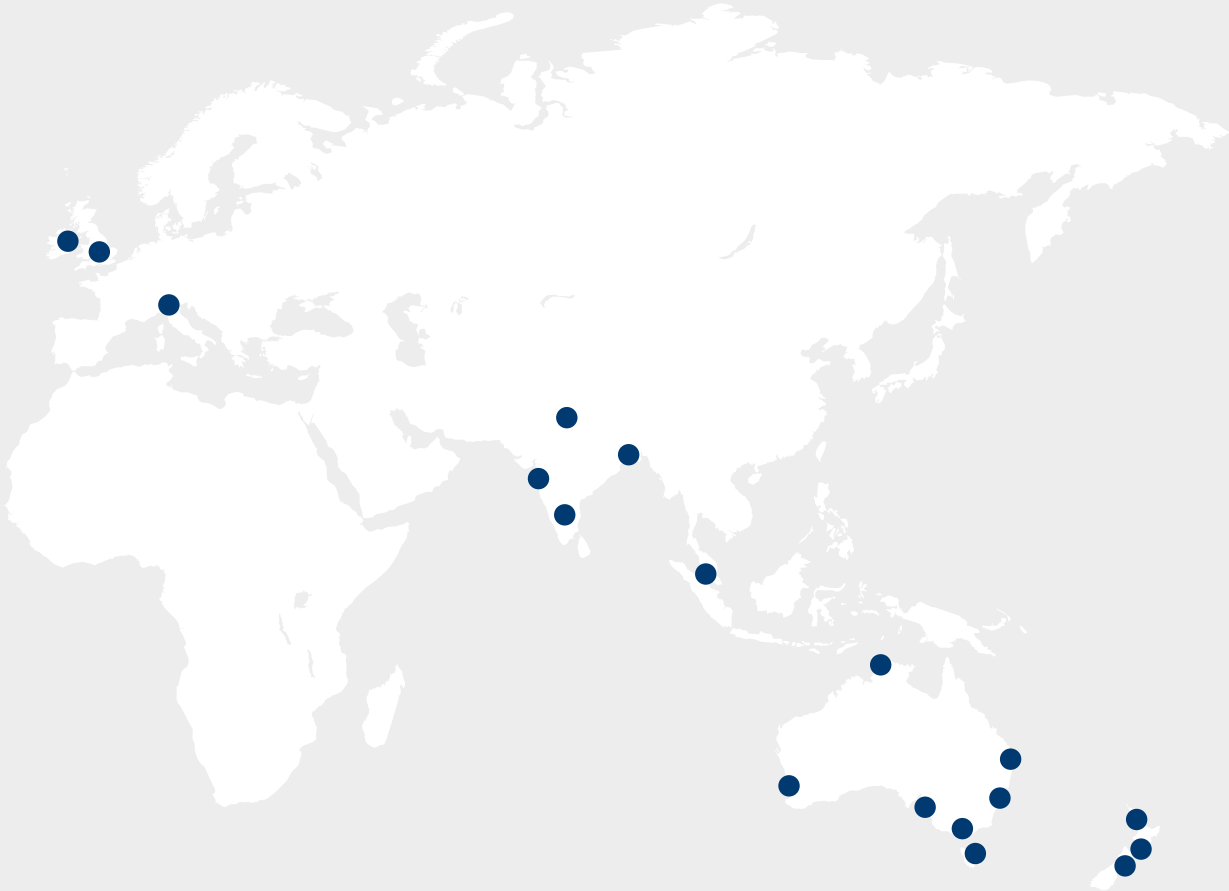
We are also active members of professional organisations that help to shape and direct the research, legislation, trends and issues of the present and future:

FETA  
FMA  
EVIA  
CIBSE Patrons  
HEVAC Association  
BSRIA  
AMCA  
Smoke Control Association

All welders are coded to the following:

ASME Boiler & Pressure Vessel Code – Section IX (welding procedure qualification records & individual welder performance qualifications)  
BS ISO 15614-1:2004 A2:2012 (welding procedure qualifications records)  
ISO 9606-1:2013 (individual welder performance qualifications)

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## PART OF ELTA GROUP

Across all of our people, in all of our businesses, on all continents on which we operate, Elta Group has one purpose: To enhance life through air.

For over 25 years we have been a proudly independent, family-owned group, but our foundations were laid over 50 years ago. Our foundations were built on an entrepreneurial spirit and a clear vision of meeting market needs and improving air quality. These have seen us become a leader in high-integrity solutions that move, filter, treat and distribute air, from agriculture to building services to applied technology. We're never standing still, always living and breathing our cause, and looking to the horizon.





# **ELTA** AIR MOVEMENT AIR QUALITY

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GROUP**