



The **power** of ventilation



Lindab **Air Handling Unit**

Ensure the correct flow of fresh air, acceleration at the right rate and exact volume

lindab.com



Air Handling Units that maximise performance



Commercial areas

Reliable, energy-saving ventilation systems with smart regulation that adapt to various room occupation regimes and changing indoor climate demands in multipurpose buildings.



Clean rooms

Premium ventilation solutions for hospitals and clean rooms according to international standards for clean rooms, fulfilling the most stringent demands regarding air purity.

nce. **Anywhere.**



Wet areas

Years of experience in designing air handling units for specific conditions in rooms with increased humidity and fresh water or saltwater swimming pools. Offering expertise by providing tailored solutions, energy optimisation and upgrade of existing systems.



ATEX

Customised solutions for different industrial applications which require air handling units in explosion-proof versions. Flexibility and technical know-how allows adaptation to special demands, such as efficient extraction and filtration of dangerous gases or contaminated air.

CompAir – a plug & play solution



Immense flexibility in limited spaces

Different types of connection placement, so that the units can also be fitted in very limited spaces.

High efficiency

All key components, such as fans and heat recovery units, fulfil the highest energy efficiency demands and comply with ErP 2018.

Integrated cloud service

Plug & play unit for ultimate user experience, online assistance, connectivity with other elements in the ventilation system and BMS.

All-in-one ventilation

CompAir is the user-friendly all-in-one ventilation solution for smaller premises, designed to fit in limited spaces. Additional sections, such as coolers, heaters and sound attenuators, can be added easily to the basic unit.



Wide range of different dimensions

Air flow up to 10.700 m³/h



Eurovent certified within the existing Klimair2 range.



Cloud

Simple connectivity and easy control of all functions and parameters from anywhere.

UP TO 90%
heat recovery

Modular AHUs – tailored for you



Flexibility

38 standard sizes and over 50 functional sections allow immense flexibility and adaptation to customers needs and individual project requirements. Available in indoor and outdoor version.

User-friendly

Simplified installation and start-up of units in the factory or on-site. Available with complete control equipment and compatible with various BMS systems.

Energy efficiency

Our selection program Aircalc++ allows you to define the best AHU configuration according to the desired energy efficiency values.

Customised ventilation

We offer dedicated solutions for demanding applications, such as clean rooms, swimming pools, industrial buildings, sports arenas, contemporary business and residential buildings.

Wide range of different dimensions



**Air flow up to
100.000 m³/h**

**50
mm**

Housing wall

thickness



Modular AHU housings TopAir and TopAir Plus are Eurovent certified within the existing Klimair2 range and comply with ErP 2018.

Impressive TopAir Plus housing characteristics:

TB2

Thermal
bridging

T2

Thermal
transmittance

L1

Air
leakage

D1

Mechanical
stability

Maximum savings and smart benefits for all

Investor and Property Owner

LCC (Life-cycle-cost) analysis, computer fluid dynamics software (CFD analysis) allow simulations of project solutions. Proposing optimum solution for the complete HVAC system. Consulting in picking the right equipment for a certain project to ensure maximum energy savings and quick payback of investment.



Designer

Advanced user friendly selection and designing programs for quick implementation of products in projects with all technical data and drawings. Possibility of carrying out measurements for special project solutions in our R&D center in Godovič, Slovenia.



Contractor and Installer

Smart solutions for easy installation of units, supported by user-friendly manuals and good aftersales support. Online assistance and monitoring of systems functions, consulting in the area of energy optimisation.



Benefits of all elements

- connected in one system and communicating with each other



Control of all elements

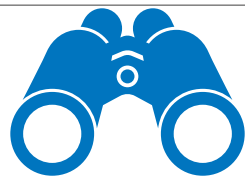
from any device with a browser

Optimised

system function



Energy & cost savings



Easier maintenance

Due to overview over current status of every single element



State-of-the-art R&D centre

In the Lindab Air Movement competence centre, CFD analysis is carried out for project solutions, while modern lab facilities allow testing and measurements in real conditions.

Efficient ventilation, heating and cooling for **commercial areas**

Providing perfect indoor climate

Lindab modular air handling units TopAir and TopAir Plus are intended for central preparation of air including: heating, cooling, filtration, humidification, dehumidification, heat recovery and regeneration.

The reliability of our standard and custom solutions is proven by practical tests and measurements at our own R&D centre in Godovič, Slovenia – including measurements of indoor air quality, noise levels, heating and cooling capacities and other technical characteristics.

We offer over 50 functional sections to cover all needs and broad range of standard accessories tailored for your project.



Perfect system settings

Sophisticated automation systems make it possible to set detailed operation regimes and supply perfectly conditioned air at the right time.





Low noise level

A good ventilation system is a system which is not even noticed by users. Good sound attenuation and draught free climate are important factors for wellbeing in premises such as offices, schools, hotels and leisure premises.



Ensures the flow of fresh air

While spending a large part of our lives in closed rooms, it is vital, that optimum temperature and humidity conditions are maintained and that sufficient quantities of fresh air are supplied.



Adapts the air flow volume

For areas, where the occupancy of the premises varies strongly during the day, different regimes are set to adapt the air flow volume and save energy costs.

Ventilation for **clean rooms** and hospitals according to international standards

Complies with the strictest hygiene requirements

Hygienic type air handling units are applicable in hospitals, food industry, pharmaceutical industry and other clean room applications.

Characteristic is the construction without grooves and sharp edges, all components and materials are corrosion resistant and resistant to disinfectants. To ensure a high level of cleanness and to prevent growth of microorganisms, all seals are smooth, abrasion-resistant and closed-pore.



Highest level of air purity

Reliable air filtration and constant room temperature without draught ensures pleasant working conditions and a high hygiene level in operation rooms.



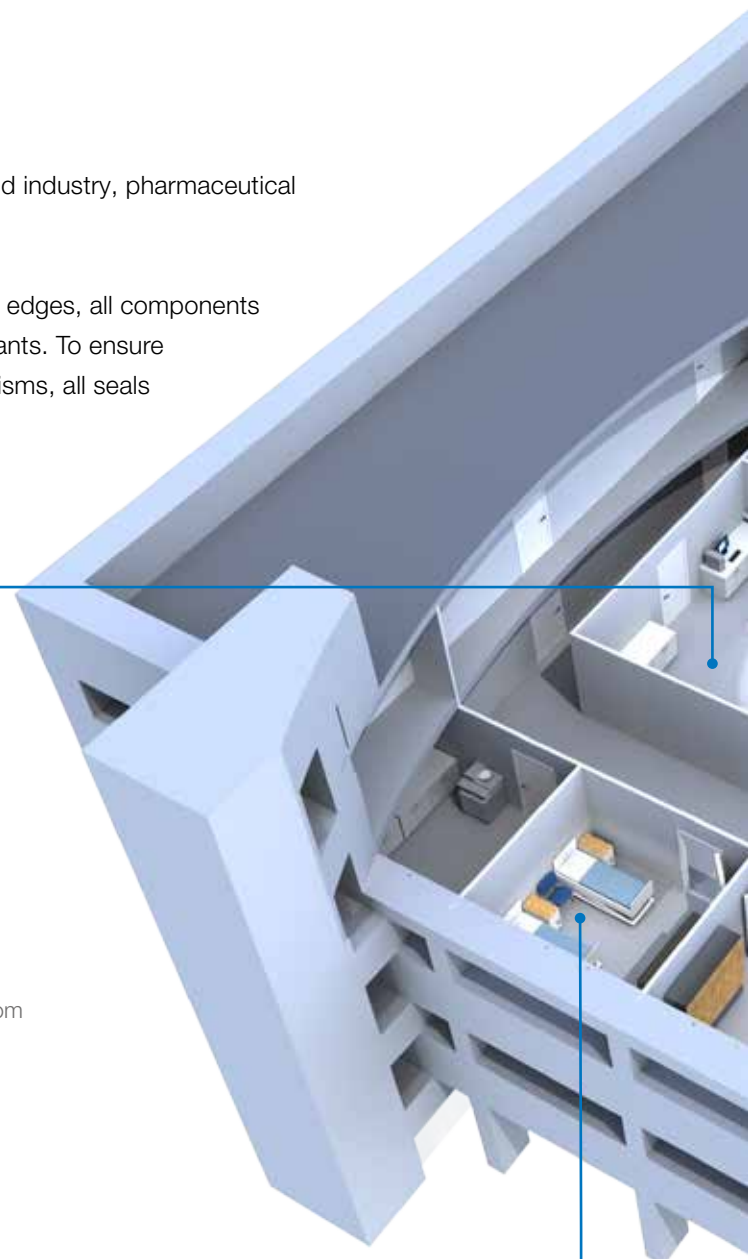
Long durability

External panels made of galvanised or powder painted sheet steel. The internal panels made of painted sheet steel, bottom made from stainless sheet steel 1.4301.



Highest indoor comfort

Also for sensitive areas such as intensive care premises.





Easy maintenance

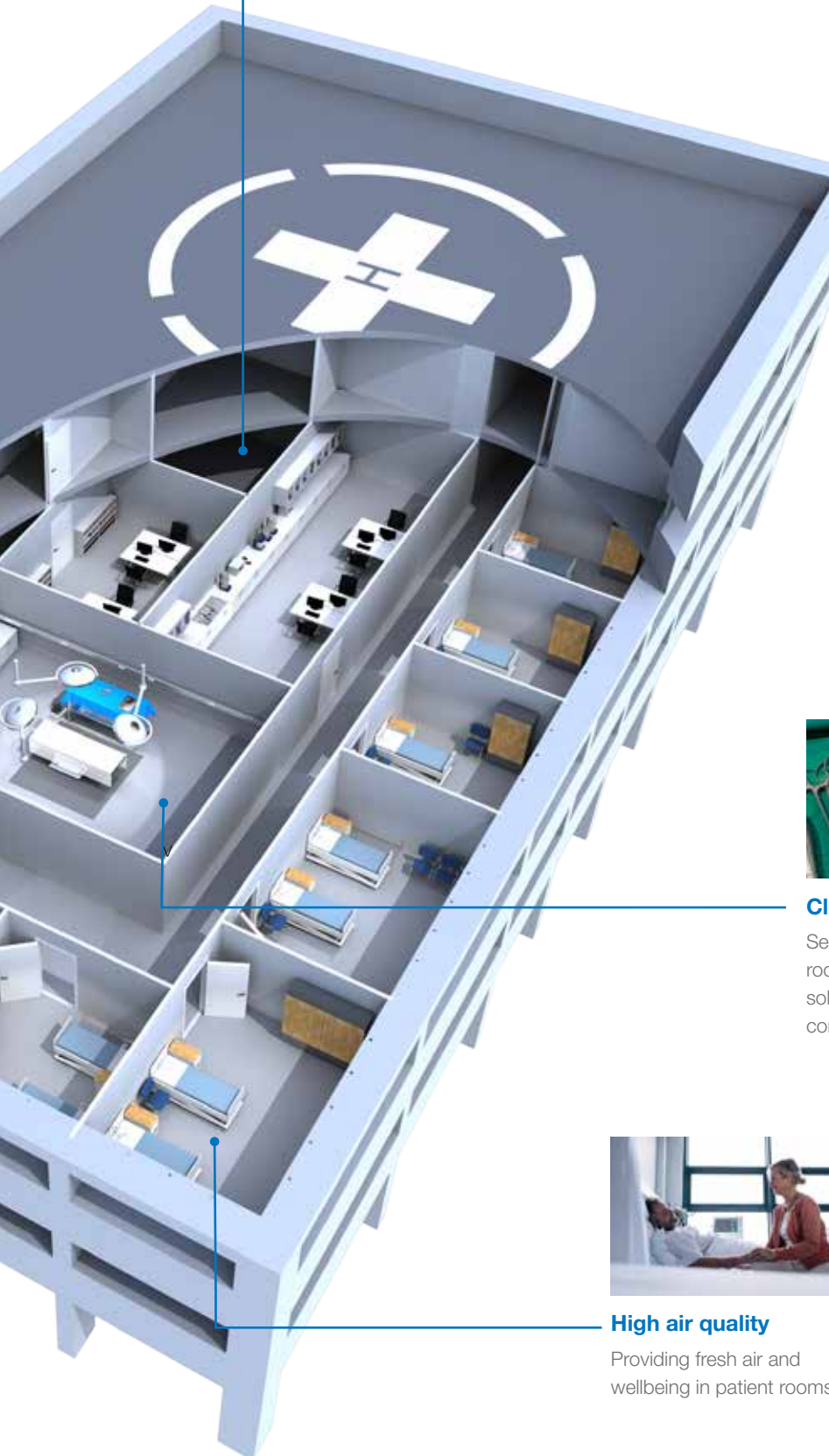
All functional elements (fans, coils, heat recovery units, humidifiers) are easily removable for maintenance, disinfection and service.

Product suitability

Lindab hygienic air handling units are tested according to:



- ✓ DIN 1946-4
- ✓ VDI 6022-1
- ✓ ÖNORM H6020
- ✓ ÖNORM H6021
- ✓ SWKI 99-3
- ✓ SWKI VA 104-1
- ✓ EN 13053



Clean room ventilation

Separated general ventilation and clean room ventilation with special filtration solutions, preventing intrusion of contaminated air to auxiliary rooms.



High air quality

Providing fresh air and wellbeing in patient rooms.

Perfect regulation of temperature and humidity for **wet areas**

Providing perfect indoor comfort

Air handling system with suitable temperature and humidity control regimes according to water attraction operation, visitors activity, outside air conditions, and optimal energy consumption; these are the basic functional requirements for indoor swimming pool air handling units.

Swimming pool units in general are made of anti-corrosion materials and feature adjustable microprocessor controllers, high efficient heat recovery, energy efficient heat pumps and have a high dehumidification capacity.



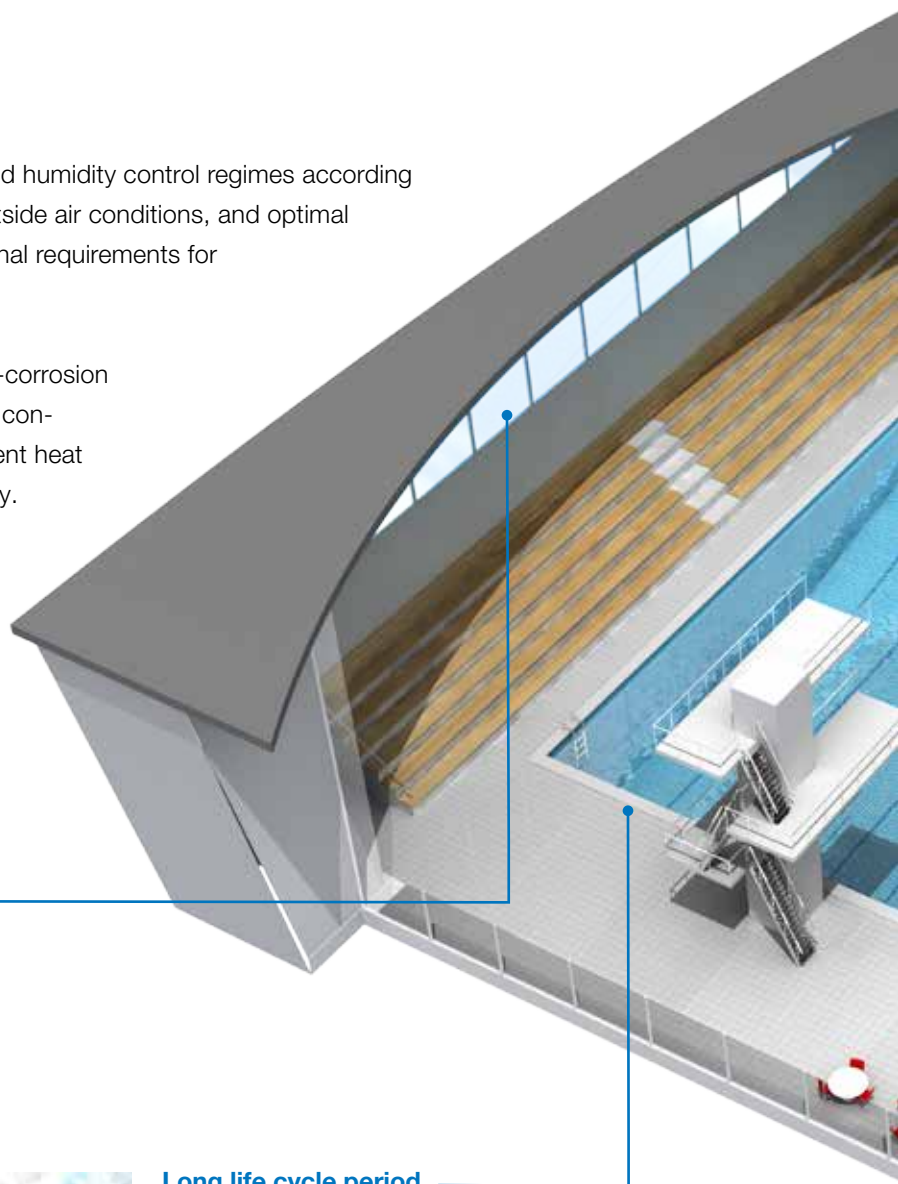
Smart control system

Allows to adjust strongly varying heat and humidity loads in different seasons.



Long life cycle period

Through high quality components, which are protected against humidity and aggressive chemicals.





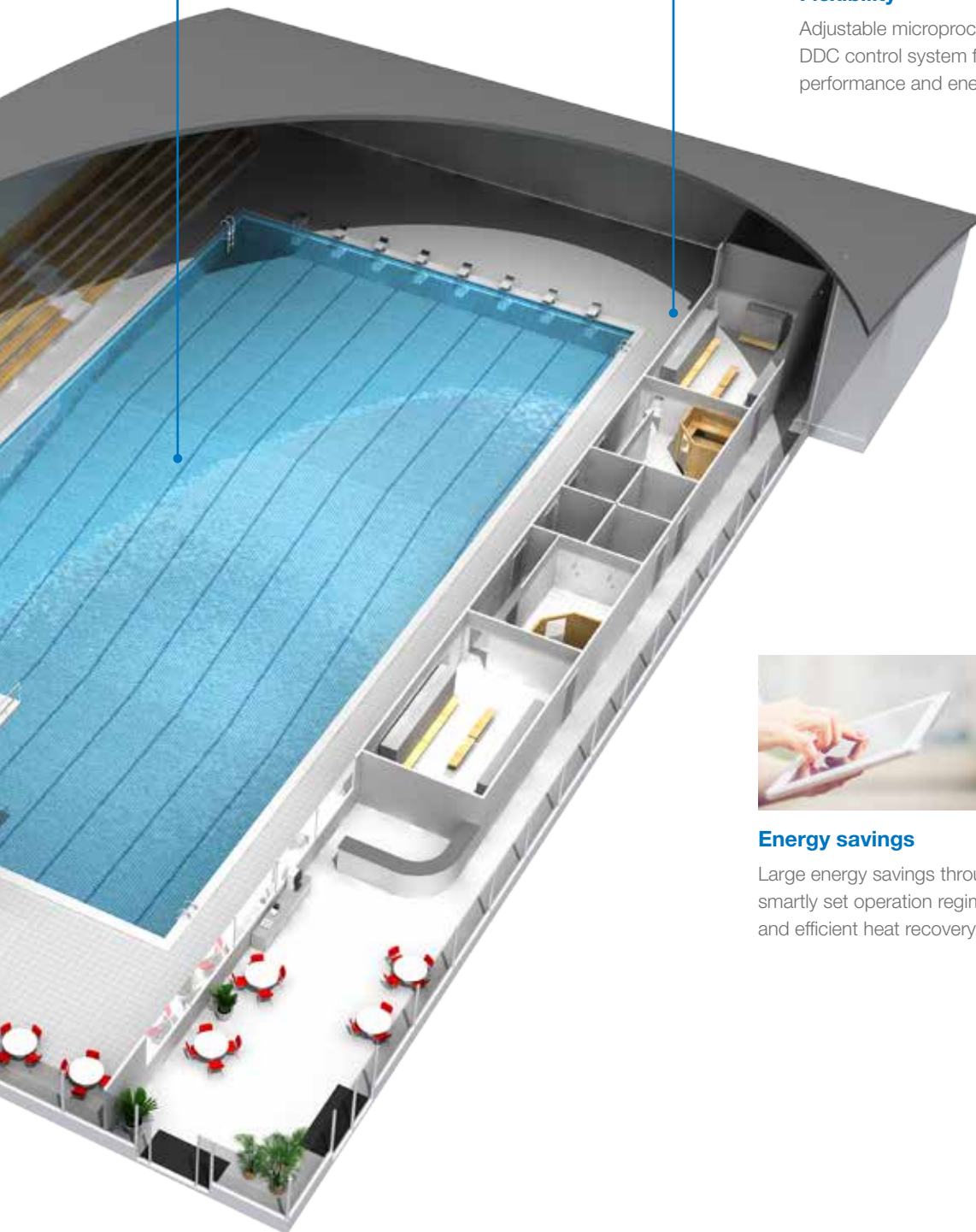
Highest comfort

Dedicated air handling units with different dehumidification regimes ensure perfect indoor comfort in dependence of varying conditions in the swimming pool.



Flexibility

Adjustable microprocessors and DDC control system for maximum performance and energy efficiency.



Energy savings

Large energy savings through smartly set operation regimes and efficient heat recovery.

Removes dust, gas and noxious substances for industrial applications

Air handling units for different industries

Long experience in customised design and numerous references in industries such as the microelectronic, pharmaceutical, food, paper and nuclear industry allows us to fulfil specific technical demands. Besides basic air handling functions, units also provide removal of dust, gas, microorganisms and hazardous substances. On demand, air handling units can also be delivered in explosion proof version (ATEX).

Special solutions for niche industries

Paper industry

- AHU with advanced humidification

Food industry

- Dedicated AHU solutions for baking industries
- Ventilation of food production and storage



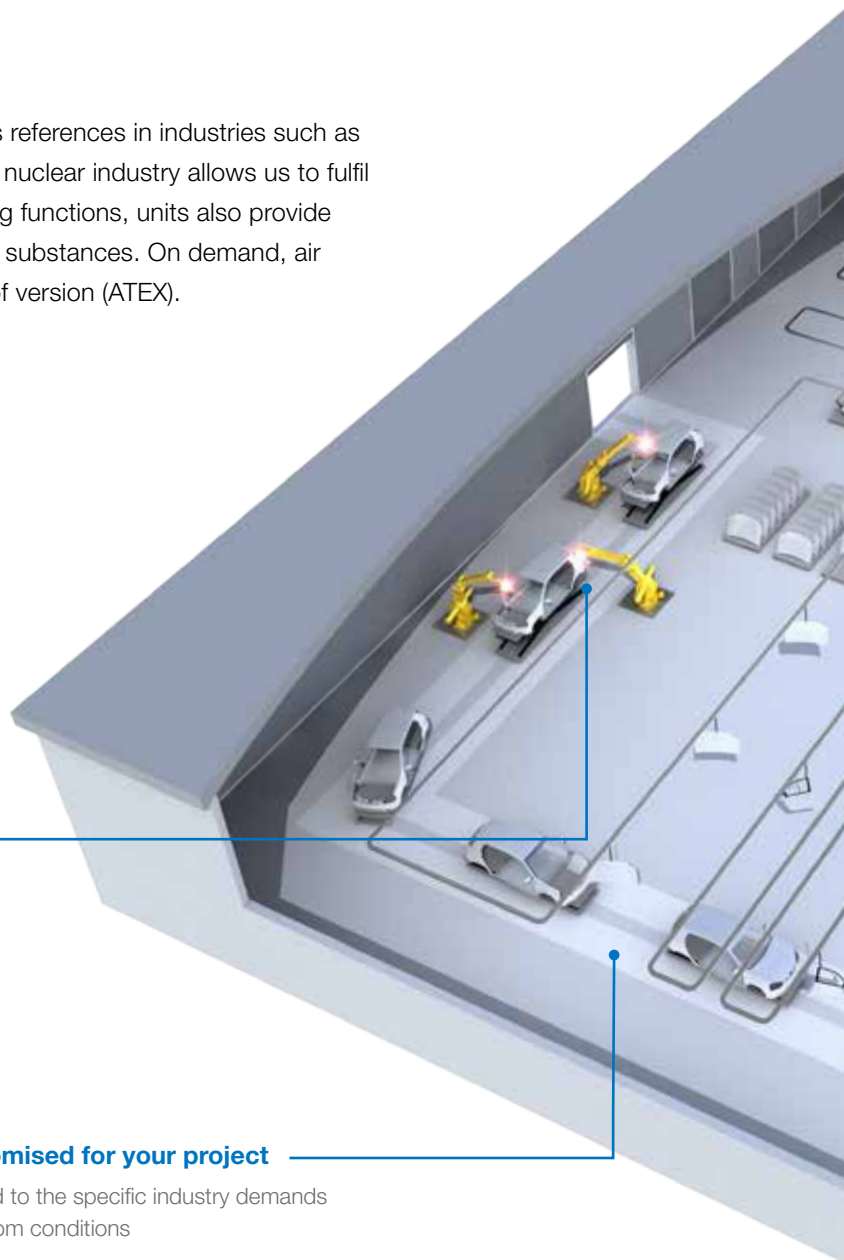
Indoor comfort

Best possible conditions for production workers and control over heavy dirt or heat loads.



Customised for your project

Tailored to the specific industry demands and room conditions

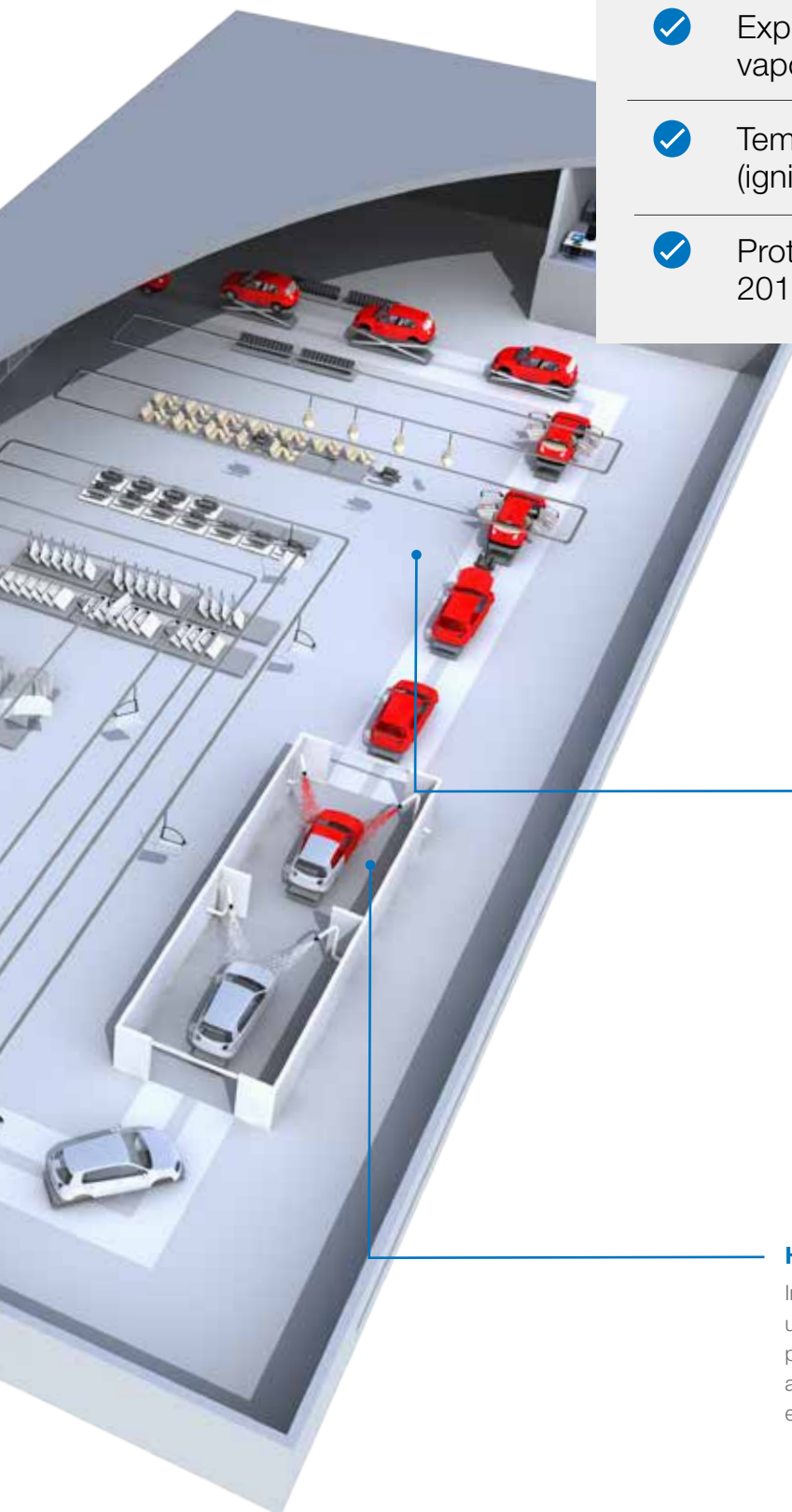




Product suitability

All elements are produced in accordance with ATEX directive.

- ✓ Equipment group II
- ✓ Equipment category 2 and 3
- ✓ Explosive atmosphere, caused by gases vapours (G)
- ✓ Temperature classes T1, T2, T3, T4 (ignition temperature $T > +135\text{ }^{\circ}\text{C}$)
- ✓ Protection based on the ATEX Directive 2014/34/EU



Clean air

Efficient gas extraction and filtration

High safety

In explosion proof air handling units all section and housing parts are grounded to the base and all panel walls joints are electroconductive.



Total energy-efficient ventilation solutions

Lindab's solutions comprise all the parts needed to efficiently execute a project. You receive a complete combination of ventilation systems, products, knowledge and support – all in one package.

We simplify the construction of sustainable housing

As your partner, we put together a solution that is tailored to meet your needs and those of the end user – while supporting you throughout the process. We help you to plan, dimension and optimise your project with our unique IT tools.

We provide complete documentation about your systems and industry-leading products. And you can draw on the knowledge we have amassed over years of developing ventilation solutions to meet tomorrow's needs.

This means you can carry out your project more efficiently, and offer your customers a sustainable indoor climate.

Read more at lindab.com



Lindab Connect

Cloud service that allows interconnected systems to communicate and optimise performance. Easy access, regulation and monitoring in real time.



Energy Optimising Solutions

Innovative solutions for precise measuring using ultrasound technology. UltraLink, with or without VAV damper, eliminates all unnecessary energy use.

Air Movement

Fans and air handling units, both compact and modular, for different types of premises and demands.



Indoor Climate Solutions

Wide range of energy efficient solutions, both waterborne and airborne climate systems, including all components and accessories.



Ventilation Products

Complete range of duct systems and components such as Lindab Safe with air tightness class D.



Fire Safety Solutions

Complete range of solutions for fire and smoke, such as fire rated duct systems, dampers and fans.



IT Solutions

Wide range of intelligent tools for simplified construction processes, such as Vent Tools, lindQST, TEKNOsim, DIMsilencer and CADvent.

We simplify construction

At Lindab, we are driven by a strong desire to continuously generate improvements – for all the customers and partners who use our products and solutions, and for all the people who live or work in our buildings. We simplify construction and help create a healthy indoor climate. This means that fewer resources are used, to the benefit of the environment, and that people feel better and healthier. Our vision, optimal comfort, is about achieving the best possible indoor environment, where fresh air is naturally a fundamental requirement. With passion and knowledge, we are reinforcing our efforts to offer the best indoor climate solutions in healthy, sustainable buildings.

A good thinking company

Good thinking is a deeply rooted philosophy that guides us in everything we do. We believe that good thinking makes good solutions to the challenges we all face. Taking responsibility for what we do and how we do things is therefore important to us. Because good thinking is not only about making life simpler and more comfortable for our customers and end users. It's also about thinking in a global perspective, all the time. Knowing that we at Lindab are helping to make the world a better place.





Good Thinking

At Lindab, good thinking is a philosophy that guides us in everything we do. We have made it our mission to create a healthy indoor climate – and to simplify the construction of sustainable buildings. We do this by designing innovative products and solutions that are easy to use, as well as offering efficient availability and logistics. We are also working on ways to reduce our impact on our environment and climate. We do this by developing methods to produce our solutions using a minimum of energy and natural resources, and by reducing negative effects on the environment. We use steel in our products. It's one of few materials that can be recycled an infinite number of times without losing any of its properties. This means less carbon emissions in nature and less energy wasted.

We simplify construction