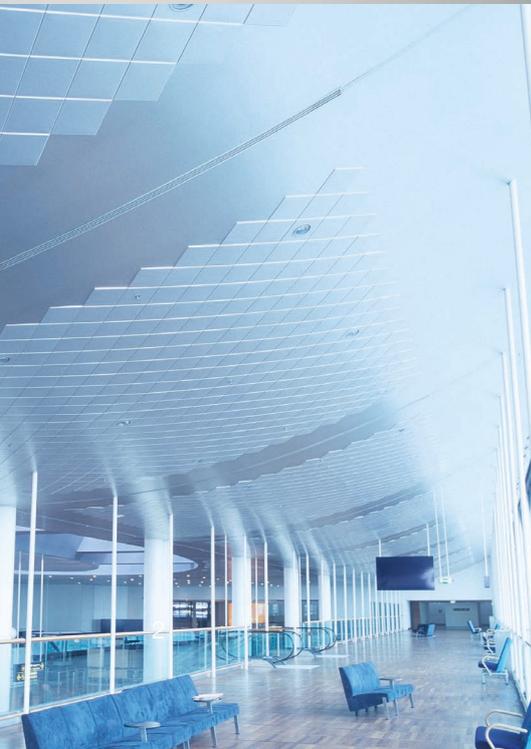




Lindab **IndoorClimateSolutions**

Product overview Airborne Solutions



We simplify construction

At Lindab we are driven by a strong desire to continuously generate improvements and to simplify construction. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.

We want to simplify everything – from designing, ordering, delivery, goal achievement and installation to the entire way of doing business with us. By simplifying in every stage of the construction process, we also contribute to energy-efficiency.

A good thinking company

Good thinking is a deeply rooted philosophy that guides us in everything we do. We firmly 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 easier and more comfortable for our customers and end users. It is also a matter of thinking in a global perspective, all the time. Knowing that we at Lindab are helping to make the world a better place.

Optimum comfort with innovative airborne systems.

Our airborne climate systems give you the market's most innovative products with an optimum indoor climate as a result. The products use air to ventilate, cool or heat a room and have industry-leading properties such as high energy efficiency and air quality as well as very low sound levels. With a complete range of airborne indoor climate systems, we have everything from diffuser, grilles, VAV systems, and displacement units for all applications. This means that we can supply solutions for every requirement and for every segment. Regardless of whether your project is within housing, offices, industry or the marine sector.

Quality, service and knowledge have always been crucial factors for the customers that have chosen us as a partner. So, behind each solution lies industry-leading expertise, extensive research, evaluation and full documentation. If you have specific requirements or wishes, we can quickly develop or customise a solution to comply with your particular project.



Product overview

Lindab Formo

Aesthetic design

Function: Mixed ventilation, horizontal and vertical air jet patterns, 1-2-3 and 4 way air jet patterns, exhaust air.

Size: Ø125-400 mm

Installation: Cut directly into the ceiling or mounted on suspended ceilings by use of adapted ceiling tiles.

Important features: Award winning, ceiling adaption, simple and economical.

Application: Offices, restaurants, show rooms, schools, stores, supermarkets, institutions.



Lindab Lineo

Clean lines

Function: Mixed ventilation, horizontal and vertical air jet pattern, exhaust air.

Size: Ø125-200 mm

Installation: Cut directly into the ceiling or wall/skirt.

Important features: Simple and clean lines, possibility of unbroken bands throughout the length of the room.

Application: Offices, restaurants, hotels, show rooms, stores.



Lindab Integra

Integrated design

Function: Mixed ventilation and low impulse, horizontal and vertical air jet patterns, exhaust air.

Size: Ø125-315 mm

Installation: Cut directly into the ceiling or mounted on suspended ceilings by use of adapted ceiling tiles.

Important features: Flush diffuser, ceiling adaption and flexible possibilities.

Application: Offices, restaurants, show rooms, schools, stores, supermarkets, institutions.



Ceiling diffusers - visible

Function: Mixed ventilation, horizontal air jet patterns, exhaust air.

Size: Ø100-315 mm

Installation: Against the ceiling or free hanging. The box is equipped with thread nuts in the top for mounting.

Important features: Diffusers are not dependent on a straight duct in front of plenum box.

Application: Offices, restaurants, show rooms, schools, stores, supermarkets, institutions.



Lindab Versio

Countless possibilities

Function: Mixed ventilation and low impulse, horizontal and vertical air jet patterns, 1-2-3 way air jet patterns, exhaust air.

Size: Ø125-315 mm

Installation: Available adapted to suspended ceilings

Important features: Countless configuration possibilities, unique suspension system for front plates, simple mounting integrated in the ceiling system, flush to the ceiling.

Application: Offices, restaurant, show rooms, schools, stores, supermarkets, institutions.



Industrial diffusers

Function: Mixed ventilation, horizontal and vertical air jet patterns.

Size: Ø125-630 mm

Installation: Free hanging or mounted to ceilings.

Important features: Several varieties of electrical motors and thermal actuator for change of air jet pattern.

Application: Show rooms, conference rooms, stores, supermarkets, industrial rooms.



Plenum boxes

Function: Ensures a stable air flow to the diffuser, sound attenuation and individual adjustment.

Size: Ø100-315 mm

Installation: Hidden or free hanging.

Several types of mounting integrated in the construction.

Important features: Low building heights, graduated adjustment wires. K-factors printed on the adjustment wire.

Application: All building types.



Ventiduct

Function: Active displacement with optional nozzle pattern.

Size: Ø200-500 mm

Installation: Free hanging.

Important features: High capacity, large area of dynamics and simple mounting.

Application: Industry, exercise rooms, schools.



Wall diffusers

Function: Mixed ventilation, horizontal and adjustable air jet patterns, exhaust air.

Size: Ø80-200 mm

Installation: Mounted in the wall or skirt.

Important features: Compact plenum box type WB has a maximum width of 500 mm, which makes it possible to mount in an ordinary wall construction with a centre distance of 600 mm.

Application: Offices, restaurants, show rooms, schools, stores, supermarkets, institutions.



Grilles

Function: Mixed ventilation, horizontal, vertical and adjustable air jet patterns, exhaust air.

Size: Available in standard sizes and adapted to 3000 x 3000 mm

Installation: Wall/floor mounting or directly in the air duct.

Important features: The broadest programme on the market, aluminium grilles, and steel grilles.

Application: Offices, restaurants, show rooms, schools, stores, supermarkets, institutions.



Nozzles

Function: Mixed ventilation, directed air jet patterns.

Size: Ø57-400 mm

Installation: Directly in the air duct, fitting or duct-side/skirt.

Important features: Adjustable nozzles.

Application: Swim halls, sport halls, stores, supermarkets, industrial rooms.



Displacement units

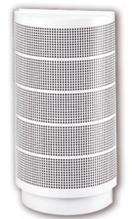
Function: Principle of displacement, adjustable air jet patterns.

Size: Ø125-630 mm

Installation: Mounted up the wall, against the floor or free-standing.

Important features: Adjustable nozzles, able to change the near zones geometry. Good adaption possibilities.

Application: Canteens, restaurants, show rooms, schools, stores, supermarkets, institutions, industrial rooms.



Product overview

VAV

Function: VAV diffusers and dampers for regulation of variable airflow in all VAV applications.

Sizes: Diffusers Ø160-315 and dampers Ø100-630 alt. 200×100-1000×1000

Installation: Diffusers adapted for installation directly in ceilings. Dampers for installation in circular or rectangular duct systems.

Features: Diffusers with built-in damper function, dampers with flow regulation and measuring cross, room controllers and various sensors.

Application: Offices, schools, stores, restaurants, exhibits, supermarkets, institutions.



Air valves

Function: Supply and exhaust air.

Size: Ø100-200 mm

Installation: Directly into circular air ducts or fittings.

Important features: Simple and easy mounting directly in air duct with bayonet-socket.

Application: All types of buildings.



Air flow regulators

Function: Maintain constant or variable air flow in the air duct system with a mechanical regulator.

Size: Ø80-315 mm

Installation: In circular air ducts.

Important features: Mechanical function, available in motorized form.

Application: In circular duct systems in all types of buildings.



Fresh air valves/ overflow unit

Function: Provides air change and pressure levelling between rooms.

Size: Circular and rectangular varieties.

Installation: In the outer wall or separating wall between rooms.

Important features: Telescopic function which simplifies mounting.

Application: Offices, homes.



lindQST – Lindab Quick Selection Tool

lindQST is an advanced web tool that makes the selection of our air- and waterborne solutions quick and simple. With lindQST all documentation is made available directly on the web. That means consultants, installers and architects always have access to the latest documentation, installation instructions and product images etc. lindQST is a unique online tool where you can simulate your room in the Indoor Climate Designer, keep track of your projects and share it with your business partners etc. lindQST provides a simple shortcut to Lindab's material and is a tool that speeds up and simplifies the daily work. All information is just a mouse-click away.



Simplified VAV solution with full potential

Lindab Pascal

Function: Complete energy saving DCV solution with intelligent system control, optimal indoor climate and simplified configuration.

Sizes: Diffusers Ø125-315, plenum boxes Ø125-Ø315 and dampers Ø100-630 / 200x100-1000x1000

Installation: Diffusers adapted for installation directly in ceilings. Dampers for installation in circular or rectangular duct systems. Set-up and configuration of the full system is easily done with web application.

Features: Patent-pending VAV box with volume flow regulation, aesthetic diffusers, preprogrammed room controllers, room sensors, intelligent system controller, fan optimizer, night cooling function and much more.

Application: Offices, schools, stores, restaurants, exhibits, supermarkets, institutions.



How does it work?



Communication
Bus system for optimized communication between Regula Combi and Regula Master units

Balancing exhaust
Flow regulator for balancing exhaust – is regulated from the aggregate supply flow in the area



Fan optimizer
Reading of damper positions on room level with the purpose of decreasing energy consumption by only using the necessary fan pressure – neither more nor less

System regulator
Regula Master with operating parameters of the full system – can communicate with Building Management System



Room control with predefined standard programs
Regula Combi unit. Option to connect heating and CO₂- / presence sensors



Plenum box
With integrated motorized flow regulator up to 200 Pa with excellent noise level



Supply unit
Diffuser with built-in presence sensor well suited for 0-100% flow



Demand control
Decreases the flow to standby level when there is no presence in the room, which saves even more energy



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 that 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 that 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. That means less carbon emissions in nature and less energy wasted.

We simplify construction

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