



## Lindab **Munio**

An active chilled beam for efficient heating, cooling and ventilation in hotel rooms



# 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.

# We create an indoor climate that exceeds expectations

Lindab Munio is a leading ventilation solution that helps create a perfect indoor climate and superior comfort. The solution is designed for installation in rooms where suspended ceiling and bulkhead mounting are standard, making Lindab Munio the optimum active chilled beam in hotel rooms, but also in care rooms, hospitals and other rooms with the same basic requirements.



## Superior comfort for longer stays

When guests step into a hotel room they expect a nice, pleasant environment that offers relaxation and a high level of comfort. The lighting and furnishings, including a comfortable bed, a large TV and a fresh, clean bathroom, are important elements of the guest's overall experience. But to achieve genuine satisfaction, the quality of the indoor climate is at least as important.

climate with fresh air, low noise levels and comfortable temperatures contributes to a positive hotel experience, which is fundamental to building a lasting relationship. And since occupancy rate is the single most important key ratio for any hotel, lasting relationships are absolutely crucial.

### **Long-term relationships key to stronger financial position**

The hotel industry is based on relations between the hotel and the guest. The guest's perception of their hotel stay is both concrete and abstract, and the indoor climate is often an abstract element of the overall experience. No lasting relationship can be established as long as the indoor climate does not live up to the guest's unconscious demands. The guest will choose a different, competing hotel the next time, simply because their stay didn't 'feel' perfect. A healthy indoor





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Lindab Munio guarantees  
the perfect haven  
for each guest



Lindab Munio is an active chilled beam that heats, cools and ventilates to create the perfect indoor climate in a hotel room. The solution uses water to regulate the room temperature very efficiently, and is specially designed for simple installation in rooms where a bulkhead with a suspended ceiling is standard. Lindab Mu-

nio is characterised by the highest quality and unique compactness – with the lowest weight and height on the market. Despite its compact design, Lindab Munio offers superior energy efficiency and performance, which guarantees a healthy indoor climate and superior comfort for the hotel guest.



*The difference between something good and something great is attention to detail”*



# Lindab Munio – the next generation ventilation solution

Lindab Munio gives you an economical, energy-efficient ventilation solution with several functions – integrated with the hotel's ventilation system and with the architectural design. Lindab Munio has unique dimensions. Compared to the next best product on the market, Munio is 10% lower in height and a full 30% lighter. The unique dimensions and low weight make handling simpler and installation more efficient. As well as being installation friendly, energy efficient and very flexible, the solution is characterised by the highest possible quality and reliability, which altogether makes Lindab Munio the next generation ventilation solution.

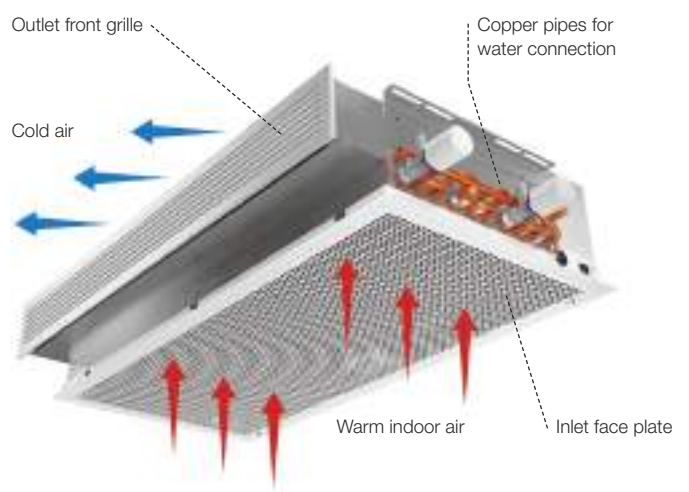
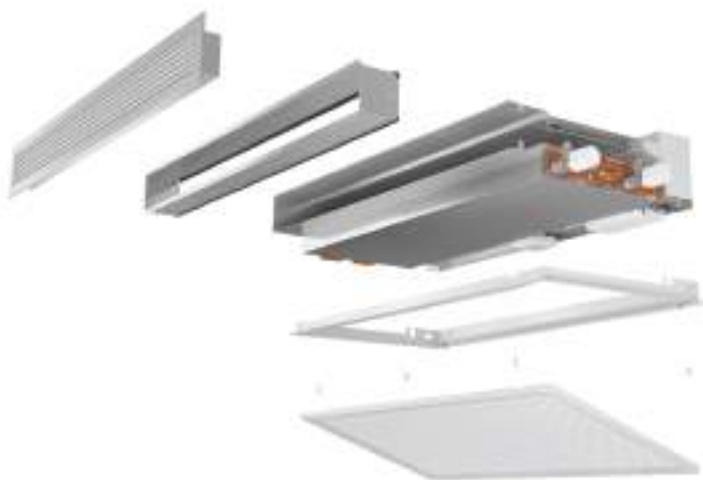
### Regulation system for maximum comfort

Munio can be integrated with Lindab's easy-to-use regulation solutions for smart, demand controlled ventilation. This ensures optimum performance and

maximum comfort. The hotel can also control the system from the booking system.

### Small dimensions. Optimal functionality

Despite the product's small size, the construction makes it possible to achieve a highly effective cooling capacity. The ventilation air is released through the JetCone-nozzles and enters a diverging zone. This creates a low static pressure. The low pressure causes the warm air in the room to be induced into the ventilation air. The volume of the recirculated indoor air is as much as two to five times that of the ventilation air. The warm room air is cooled down when it passes through the battery, which comprises aluminium fins and copper pipes with cold running water inside, and is then conveyed to a central cooling unit.





## Plus features for greater flexibility



Lindab offers high flexibility and can tailor Munio to a wide range of different preferences and requirements. Integrate a regulation system directly into the solution and choose from several different designs of grille.

- **Four outlet grilles with different designs**
- **Inlet faceplates adapted to the most common ceiling types**
- **Optional integration of valves and actuators**
- **Optional integration regulation system**
- **Extended inlet faceplates for plasterboard ceiling type**



### Base dimensions

- Width: 548 mm
- Length: 800, 1000, 1200, 1400 mm
- Height: only 170 + 20 = 190 mm

## Why Lindab Munio?

### **JetCone system for unique airflow flexibility**

With Lindab's unique JetCone technology, it's easy to quickly regulate air pressure and air volume to your exact requirements. Lindab Munio has two individually adjustable pins and a full ten setting modes, something that offers unique flexibility. All in all this gives you 20 different steps in air volume setting.

### **lindQST simplifies your life**

lindQST – Lindab Quick Selection Tool – is an advanced yet user-friendly online tool that makes choosing one of our air and waterborne solutions quick and easy. lindQST makes all the documentation accessible directly online. This means that consultants, installers and architects always have access to the latest documents, installation instructions, product images and so on. The tool also enables you to simulate your room, manage your projects and share them with other involved partners. All the information is just a mouse click away at [www.lindQST.com](http://www.lindQST.com).



## Optimal functions

- Ventilation, cooling and heating in one system
- Simple installation with click system and minimum maintenance
- Lowest weight and height on the market
- Very high compactness with small dimensions
- Outstanding air flow performance and capacity
- Extremely low noise level and hygienic performance
- Low energy consumption, installation cost and running costs
- Possible to integrate lighting and regulation system
- No need for filter because of it works with dry cooling
- Service & maintenance issues are limited
- Additional energy savings when used with free energy sources





## 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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