



# Lindab **Indoor Climate Solutions**

Product overview Waterborne 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.

## Waterborne climate systems which exceed expectations

A waterborne climate system gives you clear benefits. The products use water to effectively regulate room temperatures with a high level of precision, and create a perfect indoor climate with fresh air, low sound levels and optimum comfort. Our range is extensive and the waterborne solutions include everything from active chilled beams, radiant panels and facade appliances to condensation protection, control equipment and even illuminated beams. Furthermore, all our waterborne products are extremely installation-friendly and certified according to Eurovent.

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.



# Waterborne climate systems which exceed expectations

## High quality

Good service and extensive knowledge in ventilation have always been crucial factors for both Lindab and for our customers who have chosen us as a partner. Behind each solution lies industry leading expertise, extensive research, evaluation and full documentation. All our beams are “Made in Sweden” with more than 30 years of experience.

## Wide product range

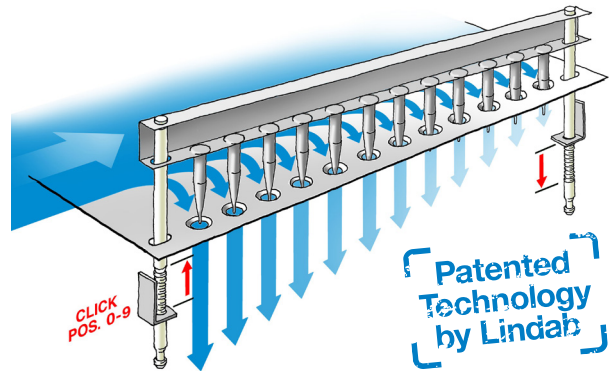
Lindab has a wide product range and the waterborne solutions include active chilled beams (ACB; supply air beams), passive (-radiant) chilled beams (PCB), radiant cooling/heating panels, facade units, multi service chilled beams appliances to condensation protection and control equipment.

We offer exposed, wall and recessed solutions with ceiling adaption for the most common ceiling systems. Our passive chilled beams and our Celo solution (active chilled beam) can also be installed behind a false ceiling system. Furthermore, all our waterborne products are extremely installation friendly, have a low weight and compact design and are made out of recycable material.

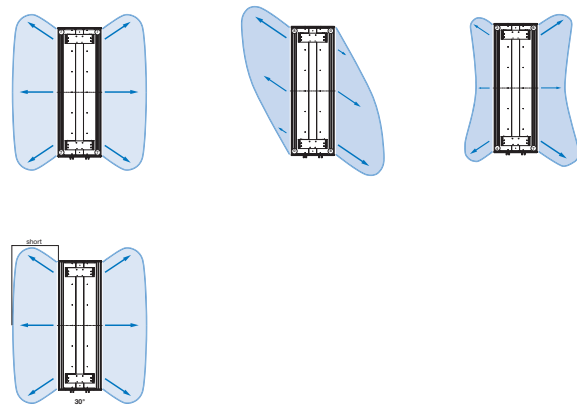
## Active chilled beams - excellent flexibility

Chilled beams operate with dry cooling. The typical inlet water temperature is 14°C, and the return temperature is about 17°C. By working with dry cooling, you do not waste energy on the condensation process and can maximise use of free-cooling during the year. We offer highest degree of flexibility with our active chilled beam solutions.

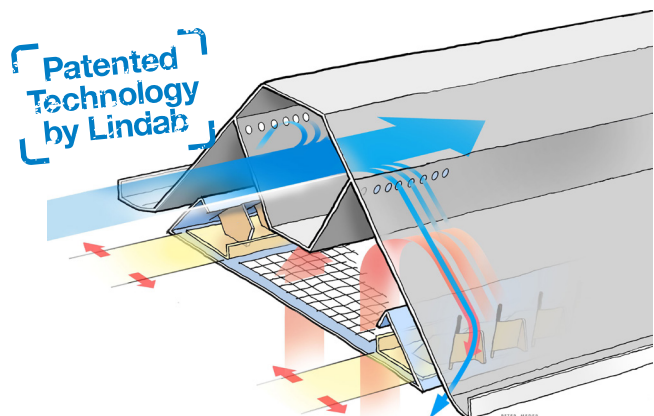
**JetCone:** unique, linear regulation to adjust airflow, static pressure and air distribution. Eliminates the need for a damper.



**Angled Nozzles:** Offers a pre-set air pattern combined with JetCone air volume adjustment and distribution profile.



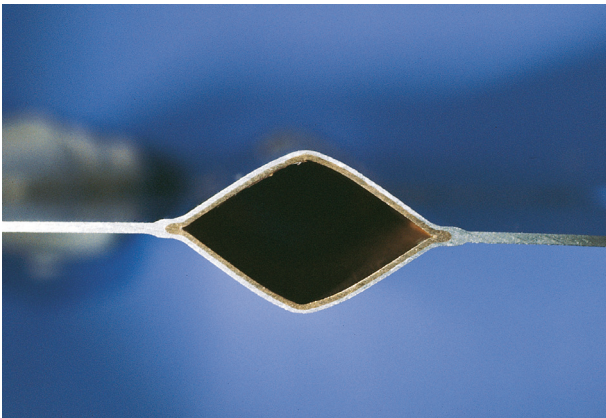
**AirGuide (optional):** flexible and precise distribution pattern control. Reduces draught risk with tool-free adjustment.



### Passive radiant chilled beams

We offer a unique developed passive radiant chilled beam technology.

Our **Carat** is based on a method that is unique in the world: in a cold-rolling process, the copper pipe is connected by metallurgical bonding to a gilled aluminium sheet thereby providing a more efficient energy transfer between the cooling surface and the water. The result is in a high cooling effect per surface/unit. The technology for the metallurgical bonding of copper and aluminium renders galvanic corrosion impossible. The radiation quotient for Carat is approx. 35% of the total emitted cooling effect. This is a high quotient, compared to conventional finned battery beams, which have a radiation quotient of approx. 5%.



*Cross-section of Lindab's unique strips. The rhomboid shape provides an efficient heat transfer surface.*

### Radiant panels

Radiant heating panels and cooling panels are another waterborne solution. Radiant panels are constructed to gain a maximum of heat exchange by radiation. The radiation output is about 50-60% (heating is 60% and cooling is 50%).

This energy exchange directly influences the surface temperatures in the surrounding environment, which are visible from the panel surface point of view. Energy exchange by radiation will not directly influence air velocities. Depending on this matter there will be no draught risk caused by the panel.

Our **Atrium and Loggia** offer the same technology as our Carat (see above).

The **Atrium Plana** design is based on a unique manufacturing process. Optimal energy transfer is secured by a high precision laser welding and offers near-to-lossless transfer of heat energy between the copper piping and the aluminium distribution plate.

Lindab delivers the lightest and most effective radiant panel on the market.



# Why choose a Lindab waterborne climate system?

## VAV/DCV solutions - Pascal Water

Lindab's chilled beam and panels can be easily integrated and used in a Pascal water system to enable VAV/DCV.

By combining the active chilled beam with a VAV (Variable Air Volume) or DCV (Demand Controlled Ventilation) technique, the Pascal solution will optimise the ventilation, cooling, heating and even lighting for a perfect indoor climate at the lowest running cost.

## In-house product development and testing

Lindab's water climate solution are all developed and tested in our laboratory in Farum, Denmark.

The active and passive chilled beams are tested according to EN-15116 and are Eurovent certified.



The radiant panels are also independently tested (according to EN-14037/EN-14240) at WSPlab, test laboratory in Stuttgart, Germany and are CE-marked.

Every single active chilled beam is adjusted according to the customer requirements for: air amount, static pressure (f. E. JetCone settings) and distribution profile (optional AirGuide function). The settings are tested and protocolled on a label on every beam.

Every single water product is pressure-tested in our factory before delivering the products to the building site.



**www.lindQST.com**

Our documentation is the best on the market and we offer you many web tools for easily looking up information on our products.

With lindQST all latest documentation is made available directly on the web. The Lindab Quick Selection Tool is an advanced web tool that makes the selection of our waterborne solutions quick and simple. With LindQST you can simulate your room in the Indoor Climate Designer, keep track of your projects and share it with your business partners etc.. All information is just a mouse-click away. Visit [www.lindQST.com](http://www.lindQST.com)



# Product overview Waterborne Solutions

## Active chilled beams

– Cooling, heating and ventilation

### Munio

**The bulkhead integrated beam**

**Use:** Hotels, hospitals, retirement- and nursing homes, offices and any other room with bulkhead

**Installation:** integrated into a bulkhead with telescopic connection for outlet front grille.

**Capacity:** Cooling capacity up to 1000 W/m, heating up to 1170 W/m, air volume up to 50 l/s.

**Important features:** Architectural design for bulkhead installation combined with jet cone technology and easy maintenance makes Munio the perfect choice.



### Professor XP

**The faithful servant**

**Use:** Single and open offices, conference rooms, restaurants, stores, supermarkets, etc.

**Installation:** Recessed in different suspended ceilings, or exposed.

**Capacity:** Cooling up to 2200 W, heating up to 4050 W.

**Important features:** Lowest height, new modulate battery concept with wide range.



### Plexus

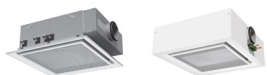
**Strong, compact comfort unit**

**Use:** Single and open offices, conference rooms, restaurants, stores, supermarkets, etc.

**Installation:** Recessed in different suspended ceilings, or exposed.

**Capacity:** Cooling capacity up to 2000 W, heating up to 950 W, primary air volume up to 85 l/s.

**Important features:** JetCone adjustment, angled nozzles 360° spread pattern, shorter throwlength, ceiling adaptations.



### Premum

**Outstanding flexibility**

**Use:** Single and open offices, conference rooms, institutions, stores, supermarkets, etc. in combination with Premax.

**Installation:** Recessed in different suspended ceilings.

**Capacity:** Cooling capacity up to 770 W/m, heating up to 1000 W/m, air volume up to 66 l/s.

**Important features:** The Lindab JetCone and AirGuide technologies delivers outstanding flexibility.



### Solus

**Chilled beam revolution**

**Use:** In any project where sustainable energy sources and energy savings are a natural priority.

**Installation:** Recessed in different suspended ceilings.

**Capacity:** Cooling 230 W/m, Heating 130 W/m.

**Important features:** Worlds first combined High Temperature Cooling and Low Temperature Heating chilled beam. No valves or other accessories needed. Perfect indoor climate and large savings.



### Premax

**Outstanding flexibility meets cooling performance**

**Use:** Single and open offices, conference rooms, institutions, stores, supermarkets, etc. in combination with Premum.

**Installation:** Recessed in different suspended ceilings.

**Capacity:** Cooling 850 W/m, Heating 900 W/m.

**Important features:** The ultimate chilled beam. Full flexibility and market leading cooling capacities.





# Active chilled beams

## – Cooling, heating and ventilation

### Architect

**Various casings and front-plates for easy adaption to room design**

**Use:** Architectural integrity is a top priority.

**Installation:** Exposed, sealed to the ceiling or free hanging. Wall mounted.

**Capacity:** Cooling 400 W/m, Heating 1000 W/m.

**Important features:** JetCone adjustment and Angled Nozzles for flexibility and a perfect air spread. With the freedom to design your own faceplate, there is no limit to the esthetic possibilities.



### Plafond XD

**Exposed wall-mounted one-way active chilled beam with new modulate design cover concept.**

**Use:** As architectural desing element to achieve lowest room height in offices, hotels, hospitals, schools, banks, or other environments where an exposed installation is preferred or needed.

**Installation:** Exposed installation directly on a wall. A separate designed Cover hides all installed components for the chilled beam system.

**Capacity:** Cooling 700 W/m, Heating 1800 W/m.

**Important features:** For visible installation on the wall surface. JetCone adjustment and Angled Nozzles for flexibility and a perfect air spread. The Plafond XD Cover is available in seven different designs.



# Product overview Waterborne Solutions

## Passive chilled beams

– Cooling without ventilation

### Carat

**High performing radiant passive chilled beam**

**Use:** Industrial places, working spaces exhibition centers, offices, institutions, stores, supermarkets etc. with need for a cooling boost.

**Installation:** Exposed, sealed to the ceiling or free hanging, above the ceiling.

**Capacity:** Cooling 320 W/m.

**Important features:** Optimized passive strip, delivering a high cooling performance with 30% radiation.



## Radiant panels

– Cooling and heating without air movement

### Atrium Plana

**The seamless, esthetical radiant solution**

**Use:** Specially designed for office use, but applicable anywhere.

**Installation:** Integrated in any common ceiling, directly on ceiling or exposed.

**Capacity:** Cooling 150 W/m<sup>2</sup> panel, Heating 620 W/m<sup>2</sup> panel.

**Important features:** The lightest panel on the market delivering the best efficiency coefficient ever.



### Atrium C/H & Loggia

**Easy, comfortable and energy-efficient**

**Use:** Where large ceiling heights complicates normal heating and cooling.

**Installation:** Integrated in any common ceiling, directly on ceiling or exposed.

**Capacity:** Cooling 150 W/m<sup>2</sup> panel, Heating 620 W/m<sup>2</sup> panel.

**Important features:** Next-lightest panel on the market delivering the next-best efficiency coefficient ever.



# Facade systems

– Ventilation, cooling and heating

## Fasadium

### Maximize ceiling space

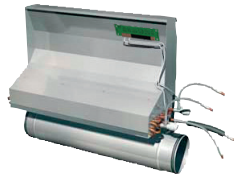
**Use:** Offices and hotels where a window-based solution is desired.

Especially a good choice for renovation projects with limited space for ceiling installations.

**Installation:** Beneath the window sill.

**Capacity:** Cooling 1500 W, Heating 2400 W.

**Important features:** For hidden or invisible installation anywhere on the wall surface. Behind facade covering (onside installed).



# Accessories

– Unique Lindab options

## The Regula family

### Specially designed accessories for waterborne solutions

Regula Combi and Duo will effectively control the indoor thermal climate. In addition to normal regulation, Regula Combi also offers the possibility of using a wide range of sensors, and extra equipment.

Regula Connect Basic, Multi and Pascal cards allow for a fast and easy installation of the build-in or post-mounted electronic equipment. Regula Secura works as a safety-switch to prevent condensation inside the chilled beam.

For more details we refer to our "Accessories" brochure.



## Pascal

### Simplified VAV solution

Lindab Pascal is a known solution that makes it more simple to fulfill the needs for a well functioning VAV system.

The solution is basically based on volume flow regulation which makes it a variable pressure system and therefore it is possible to obtain correct airflows in all parts of the system in all operating conditions. With a Pascal solution, in combination with an active chilled beam, it is possible to lower the energy consumption even more.

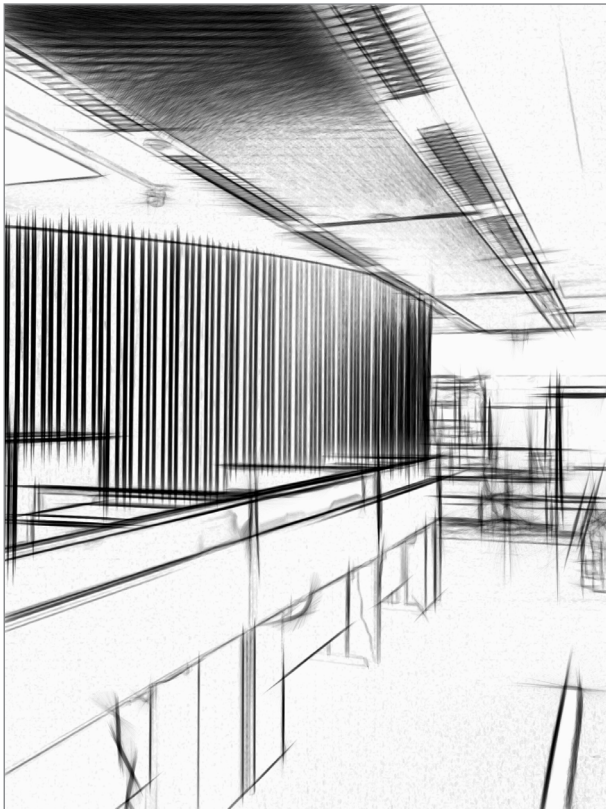


# Customised and Multi Service Chilled Beam Solutions

Lindab has many years of experience to draw upon when it comes to chilled beam system design. This extensive knowledge base is supported by our very own test laboratory where full-scale room mockups can be created. This allows feasibility and design studies to be carried out to confirm that theory is translated to fact, giving the assurance that the system will perform as expected when installed under the required conditions. Lindab therefore can offer you unique guidance and support through the whole process from the planning and design

phase through installation to commissioning and handover to the building owner. In our MSCB (Multi Service Chilled Beam) solutions, several features could be added to the basic ventilation functions, cooling and heating, f. E. lighting, sprinkler, loudspeakers, smoke sensors u. o.

Choosing a Lindab waterborne solution will provide you with an energy optimised, high quality solution and will give you full security during all phases of the project.



## The neat solution

Lindab's multi service chilled beams provide a plug-and-play pre-fabricated solution to a building's demands for heating and cooling whilst simultaneously accommodating other services such as lighting, cabling etc.



From concept, through feasibility studies and full-size mock-up testing to final design and installation, Lindab is with you every step of the way.

# Waterborne product range selection table

| Product type                         | Active beams                |                            |                                    |                |                  |                            |   |
|--------------------------------------|-----------------------------|----------------------------|------------------------------------|----------------|------------------|----------------------------|---|
| Product name                         | Munio                       | Plexus                     | Premum/<br>Premax                  | Solus          | Professor XP     | Architect                  | Plafond XD                                |
| Recessed type                        | I-                          | I- X-, Y-, Z-              | I-, X- Y- Z-                       | I-             | I-               |                            |   |
| Exposed type                         |                             | F-                         |                                    |                | F-               | Cirum, Luna, Prisma        | Alea, Badge, Cilyp, Cune, Gap, Trac, Zune |
| <b>Feature</b>                       |                             |                            |                                    |                |                  |                            |   |
| Air Flow adjustment                  | JetCone/<br>angled nozzles  | JetCone/<br>angled nozzles | JetCone/<br>angled nozzles         | Plugs          | Plugs            | JetCone/ angled<br>nozzles | JetCone/ angled<br>nozzles                |
| Pressure adjustment                  | JetCone                     | JetCone                    | JetCone                            | Plugs          | Plugs            | JetCone/ angled<br>nozzles | JetCone/ angled<br>nozzles                |
| Factory settings (airflow, pressure) | Yes (standard)              | Yes (standard)             | Yes (standard)                     | Yes (standard) | Yes (standard)   | Yes (standard)             | Yes (standard)                            |
| Distribution pattern adjustable      | grille deflectors           | JetCone                    | AirGuide (optional)                | Fixed          | Fixed            | Fixed                      | Fixed                                     |
| Divergant nozzles (0°, 16°, 30°)     | No<br>(angled nozzles)      | No<br>(angled nozzles)     | No<br>(angled nozzles)             | Yes            | Yes              | No (angled nozzles)        | No (angled nozzles)                       |
| Cooling/ 2-pipe                      | Yes (standard)              | Yes (standard)             | Yes (standard)                     | Yes (standard) | Yes (standard)   | Yes (standard)             | Yes (standard)                            |
| Cooling + Heating / 4-pipe           | Yes (standard)              | Yes (option)               | Yes (option)                       |                | Yes (option)     | Yes (option)               | Yes (option)                              |
| VAV/DCV with Lindab Pascal           | Yes                         | Yes                        | Yes                                | Yes            | Yes              | Yes                        | Yes                                       |
| Colour, standard                     |                             | RAL 9003, 9010             | RAL 9003, 9010                     | RAL 9003, 9010 | RAL 9003, 9010   | RAL 9003, 9010             | RAL 9003, 9010                            |
| <b>Dimension</b>                     |                             |                            |                                    |                |                  |                            |   |
| Water connection                     | 12 mm                       | 12 mm                      | 12, 15 mm (Premax)                 | 12 mm          | 12 mm            | 12 mm                      | 12 mm                                     |
| Air connection                       | 125 mm                      | 125,<br>160 mm (vert.)     | 125, 2x125 mm                      | 125, 2x125 mm  | 100, 2x100 mm    | 125, 2x125 mm              | 1x125 mm                                  |
| Length                               | 800, 1000, 1200,<br>1400 mm | 600 mm                     | 1.2 to 3.6 m                       | 1.2 to 3.6 m   | 1.2 to 3.6 m     | 1.2 to 3.0 m               | 0.8 to 3.2 m**                            |
| Width                                | 550 mm                      | 600, 1200 mm               | 600 mm                             | 600 mm         | 450, 600 mm      | 497...523 mm               | 323 mm**                                  |
| Height                               | 190 mm<br>(with faceplate)  | 220 mm                     | 200 mm                             | 200 mm         | 120, 144 mm      | 170 mm                     | 172 mm**                                  |
| Dry weight                           | 12.1 to 19.9 kg             | 11.6 to 30.3 kg            | 15-18 kg/m                         | 11.5 kg/m      | 11.5 - 14.2 kg/m | 11 kg/m                    | 11 kg/m**                                 |
| Water content cooling                | 1.63-2.85 l                 | 1-1.3 l                    | Premum: 0.75 l/m<br>Premax 0.6 l/m | 0.9 l/m        | 0.4 - 1.7 l/m    | 0.5 l/m                    | 1.0 l/m                                   |
| Water content heating                | 0.18-0.32 l                 | 0.2-0.4 l                  | 0.25 l                             | 0.9 l/m        | 0.60 l/m         | 0.25 l/m                   | 0.5 l/m                                   |
| <b>Capacities</b>                    |                             |                            |                                    |                |                  |                            |   |
| Air volume                           | 6-50 l/s                    | 12-63 l/s                  | 6-65 l/s                           | 8-53 l/s       | 4-80 l/s         | 6-65 l/s                   | 1-90 l/s                                  |
| Cooling capacity, nominal, max.*     | 1150 W/m                    |                            | 600 W/m                            | 850 W/m        | 750 W/m          | 550 W/m                    | 700 W/m                                   |
| Heating capacity, nominal, max.*     | 1100 W/m                    |                            | 750 W/m                            | 850 W/m        | 800 W/m          | 750 W/m                    | 1800 W/m                                  |
| <b>Plus features (integrated)</b>    |                             |                            |                                    |                |                  |                            |   |
| Heating                              | No (standard)               | Yes                        | Yes                                | No (standard)  | Yes              | Yes                        | Yes                                       |
| Integrated valve and actuator        | Yes                         | Yes                        | Yes                                | Yes            | Yes              | Yes                        | Yes                                       |
| Integrated condensation guard        | Regula Secura               | Regula Secura              | Regula Secura                      | Regula Secura  | Regula Secura    | Regula Secura              | Regula Secura                             |
| Integrated connection card           | Regula Connect              | Regula Connect             | Regula Connect                     | Regula Connect | Regula Connect   | Regula Connect             | Regula Connect                            |
| Integrated room controller           | Regula Combi                | Regula Combi               | Regula Combi                       | Regula Combi   | Regula Combi     | Regula Combi               | Regula Combi                              |
| Ceiling adaption, various            |                             | Yes                        | Yes                                | Yes (special)  | Yes              |                            |   |
| Exhaust air                          |                             |                            | Yes                                |                | Yes              |                            |   |
| Hygienic design, special             |                             | downfoldable<br>battery    |                                    |                |                  |                            |   |
| Perforation, various                 | Yes                         | Yes                        | Yes                                | Yes            | Yes              | Yes                        | Yes                                       |
| Sound absorbing mineral wool         |                             |                            |                                    |                |                  |                            |   |
| Lighting                             |                             |                            | Yes (special)                      | Yes (special)  | Yes (special)    | Yes (special)              | Yes (special)                             |
| <b>Accessories</b>                   |                             |                            |                                    |                |                  |                            |   |
| Connection cover                     |                             |                            |                                    |                | Yes              | Yes                        | Yes                                       |
| Hangers                              | Yes                         | Yes                        | Yes                                | Yes            | Yes              | Yes                        | incl.                                     |
| Specials (see catalogue details)     | Yes                         |                            |                                    |                |                  |                            | Yes                                       |
| <b>Other information</b>             |                             |                            |                                    |                |                  |                            |   |
| Test according to                    | EN 15116                    | EN 15116                   | EN 15116                           | EN 15116       | EN 15116         | EN 15116                   | EN 15116                                  |
| Eurovent certified                   | Yes                         | Yes                        | Yes                                | Yes            | Yes              | Yes                        | Yes                                       |
| CE-marked                            |                             |                            |                                    |                |                  |                            |   |

\* LpA max = 40 dB(A) with room attenuation Dr=4 dB.

\*\* without Cover, for Cover dimensions and weight please check data sheet.

For more details, please check the actual "Data sheet" for each product on [www.lindQST.com](http://www.lindQST.com)

| Product type                                       | Passive beams              | Facade system                      | Cooling Heating Panels |                       |                        |
|--|----------------------------|------------------------------------|------------------------|-----------------------|------------------------|
| Product name                                       | Carat                      | Fasadium                           | Atrium                 | Loggia                | Atrium Plana           |
| Recessed type                                      |                            |                                    | C-, H-                 |                       | C-, H-, HC-            |
| Exposed type                                       | Yes (standard)             |                                    | C-, H-                 | Yes                   | C-, H-, HC-            |
| <b>Feature</b>                                     |                            |                                    |                        |                       |                        |
| Air Flow adjustment                                |                            | Plugs                              |                        |                       |                        |
| Pressure adjustment                                |                            | Plugs                              |                        |                       |                        |
| Factory settings (airflow, pressure)               |                            | Yes (standard)                     |                        |                       |                        |
| Distribution pattern adjustable                    |                            |                                    |                        |                       |                        |
| Divergant nozzles (0°, 16°, 30°)                   |                            |                                    |                        |                       |                        |
| Cooling/ 2-pipe                                    | Yes (standard)             | Yes (standard)                     | Yes (standard)         | Yes (standard)        | Yes (standard C-)      |
| Cooling + Heating / 4-pipe                         |                            | Yes (option)                       |                        |                       | Yes (standard HC-)     |
| VAV/DCV with Lindab Pascal                         | Yes (+diffusers)           |                                    | Yes (+diffusers)       | Yes (+diffusers)      | Yes (+diffusers)       |
| Colour, standard                                   | RAL 9003, 9010             |                                    | RAL 9003, 9010         | RAL 9003, 9010        | RAL 9003, 9010         |
| <b>Dimension</b>                                   |                            |                                    |                        |                       |                        |
| Water connection                                   | 10, 12, 15, 22, 28 mm      | 10, 12 mm                          | 10, 12, 15, 22 mm      | 10, 12, 15, 22 mm     | 10 mm                  |
| Air connection                                     |                            | 100, 160, 200 mm                   |                        |                       |                        |
| Length   | 1.2 to 6.0 m               | 600, 700, 800, 1000, 1200, 1500 mm | 1.2 to 6.0 m           | 1.2 to 6.0 m          | 0.6 to 3.6 m           |
| Width  | 310, 440, 580, 710, 840 mm | 240 mm                             | 330, 600, 870 mm       | 330, 600, 870 mm      | 400, 600, 900, 1200 mm |
| Height   | 147 mm                     | 400...640 mm                       | 60 mm                  | 60 mm                 | 35 mm                  |
| Dry weight   | 1.7 to 5.0 kg/m            | 14 to 16 kg/m                      | 1.3 to 3.1 kg/m        | 1.3 to 3.1 kg/m       | 2.1 to 7.5 kg/m        |
| Water content cooling                              | 0.4-1.06 l/m               | 0.73-2.05 l/m                      | 0.18-0.53 l/m          | 0.18-0.53 l/m         | 0.4-1.6 l/m            |
| Water content heating                              | ----                       | ----                               | ----                   | ----                  | ----                   |
| <b>Capacities</b>                                  |                            |                                    |                        |                       |                        |
| Air volume   |                            | 12-63 l/s                          |                        |                       |                        |
| Cooling capacity, nominal, max.*                   | 320 W/m                    | 1500 W                             |                        |                       | 188 W/m (10 K)         |
| Heating capacity, nominal, max.*                   | ----                       | 2400 W                             |                        |                       | 470 W/m (EN, 35 K)     |
| <b>Plus features (integrated)</b>                  |                            |                                    |                        |                       |                        |
| Heating  |                            | Yes                                | Standard               | Standard              | Standard               |
| Integrated valve and actuator                      |                            | Yes                                |                        |                       |                        |
| Integrated condensation guard                      |                            | Yes                                |                        |                       |                        |
| Integrated connection card                         |                            | Yes                                |                        |                       |                        |
| Integrated room controller                         |                            |                                    |                        |                       |                        |
| Ceiling adaption, various                          |                            |                                    |                        |                       |                        |
| Exhaust air  |                            |                                    | Yes                    |                       | Yes (special)          |
| Hygienic design, special                           |                            |                                    | Yes                    | Yes                   | Yes                    |
| Perforation, various                               |                            |                                    | Yes                    | Yes                   | Yes                    |
| Sound absorbing mineral wool                       |                            |                                    |                        |                       | Yes (special)          |
| Lighting   |                            | Yes (special)                      | Yes (special)          | Yes (special)         | Yes (special)          |
| <b>Accessories</b>                                 |                            |                                    |                        |                       |                        |
| Connection cover                                   |                            |                                    | Yes                    | Yes                   |                        |
| Hangers  | Yes                        | Yes                                | Yes                    | Yes                   | Yes                    |
| Specials (see catalogue details)                   |                            | Yes                                |                        |                       |                        |
| <b>Other information</b>                           |                            |                                    |                        |                       |                        |
| Test according to                                  | EN 14518                   | EN 14518                           | EN 14037/<br>EN-14240  | EN 14037/<br>EN-14240 | EN 14037/<br>EN-14240  |
| Eurovent certified                                 | Yes                        | Yes                                |                        |                       |                        |
| CE-marked  |                            |                                    | Yes                    | Yes                   | Yes                    |
| * LpA max = 40 dB(A) with room attenuation Dr=4 dB |                            |                                    |                        |                       |                        |

For more details, please check the actual "Data sheet" for each product on [www.lindQST.com](http://www.lindQST.com).



Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

[Lindab](#) | For a better climate