New chilled beam suited for the demands of tomorrow

Lindab **Professor XP**

Active chilled beam

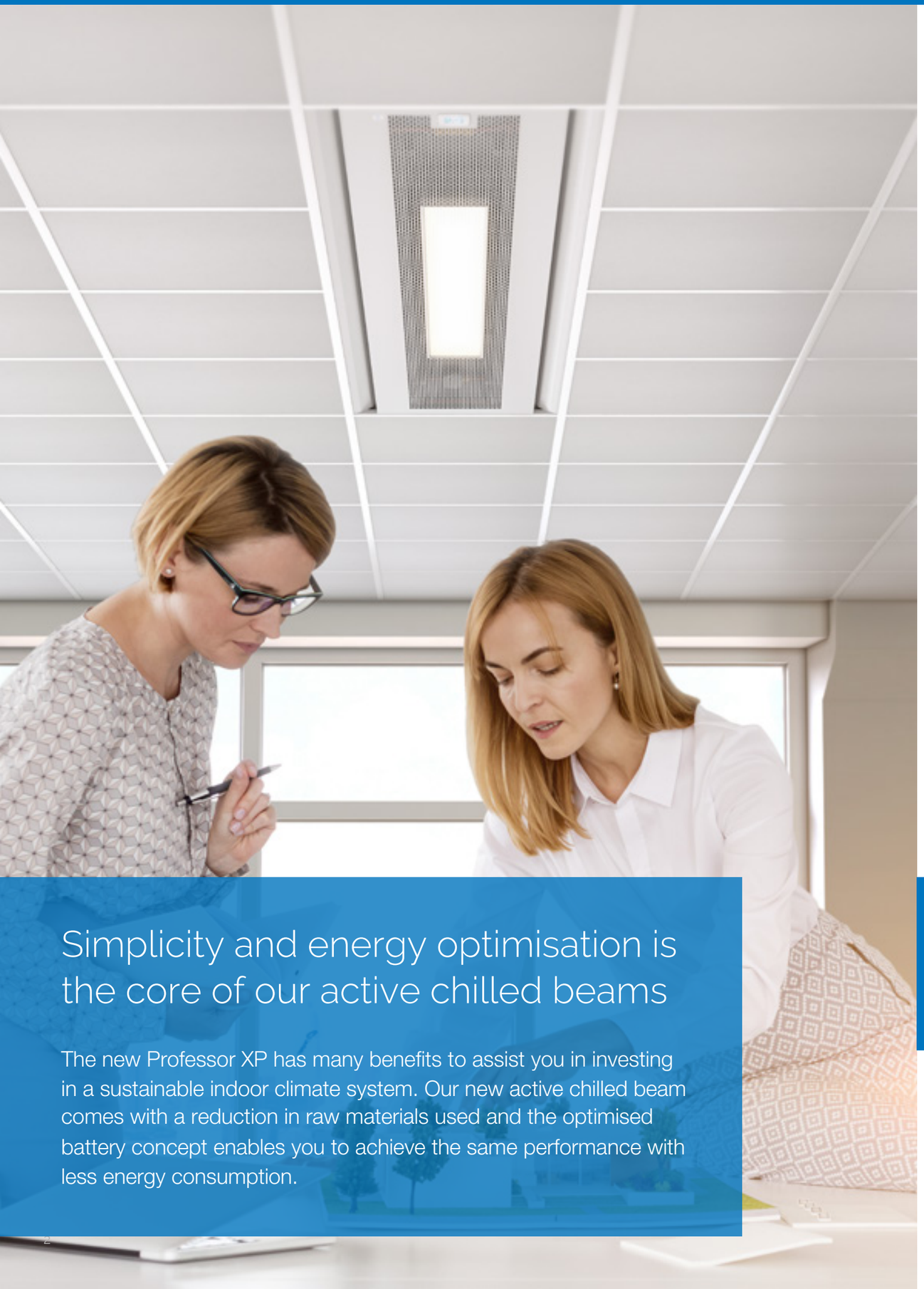
Lindab®

Professor XP – a new active chilled beam suited for the demands of tomorrow

The new powerful active chilled beam, Professor XP, is developed to meet the demands on more flexibility, comfort and low energy use in buildings.

Save energy without compromising good comfort

A chilled beam ventilation system is highly energy optimised as the cooling comes from water which gives a higher capacity compared to a standard air solution and this is without compromising the good indoor climate.



Simplicity and energy optimisation is the core of our active chilled beams

The new Professor XP has many benefits to assist you in investing in a sustainable indoor climate system. Our new active chilled beam comes with a reduction in raw materials used and the optimised battery concept enables you to achieve the same performance with less energy consumption.

Advantages: Professor XP

- Optimised energy performance
- Easy installation & maintenance
- Tailor fit solution

Design an energy and cost optimised ventilation system

The new battery concept can be tailored in 4 different configurations to optimise energy performance and lower cost for pump and piping.

New modular battery concept

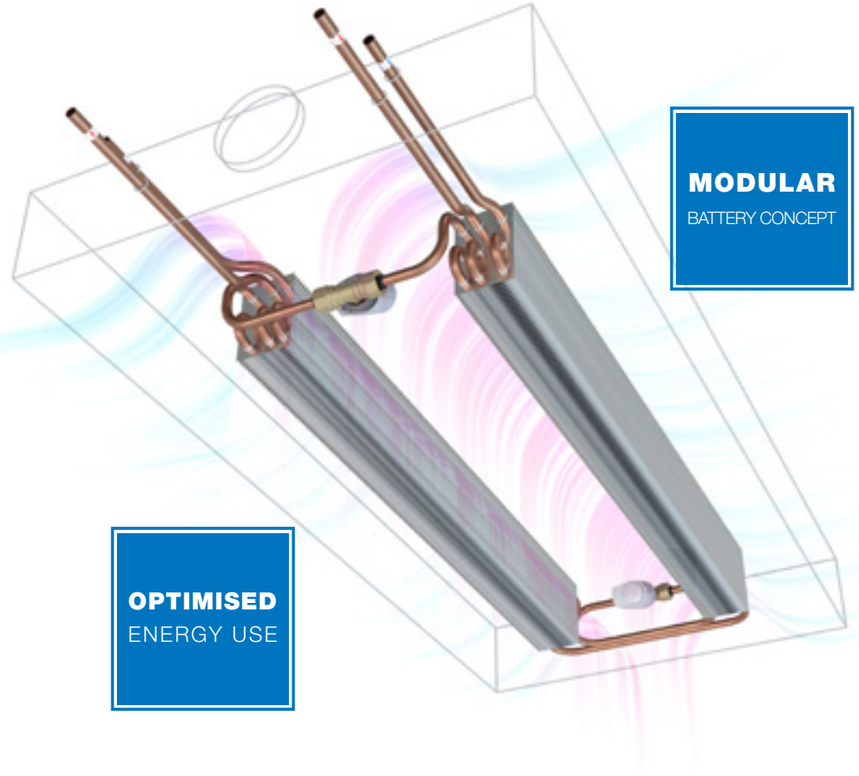
Professor XP comes with a new modular battery concept. This gives you the possibility to tailor fit the performance exactly to your needs. With the large range of battery configurations you can fine tune the exact heat- and/or cooling capacity for the project. This will optimise the energy use and lower the operating costs.

The batteries are available for both 2 pipes (cooling or heating) and 4 pipes (cooling and heating).

Special features

The innovative battery design leaves plenty of free space in the centre of the beam for extra features such as lighting, spinklers, speakers and others.

This makes Professor XP perfect for all types of building projects and helps simplify construction.



New control valve

Together with the new battery concept we have also developed a new 2-way control valve, LinFlow.

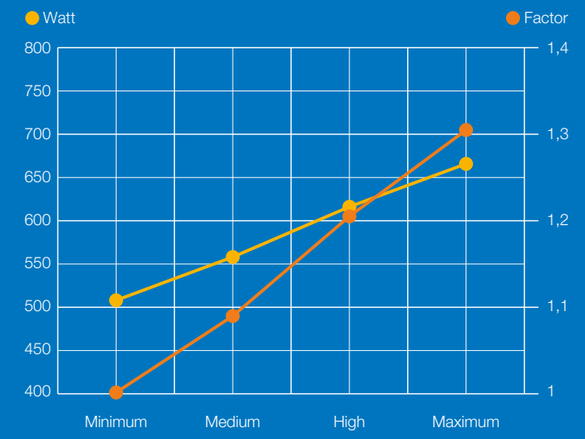
LinFlow generates extremely low noise, and therefore can regulate a higher pressure loss. This allows the use of a wider product range with smaller pipe connections (12 mm), longer beams or stronger water batteries.

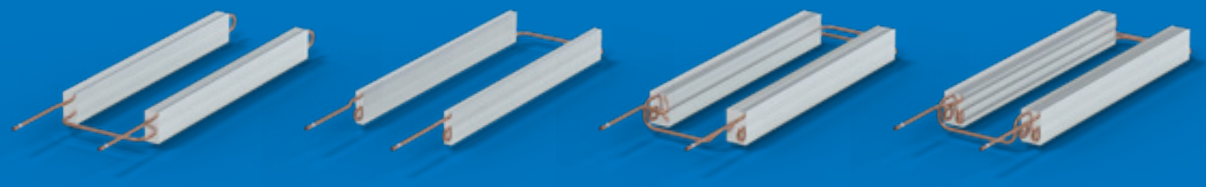
Easy upgrade of cooling power

Achieve additional cooling effect by only changing the size of your coil.

This diagram show the difference in cooling power, depending on chosen type of coil, for a specific setup to be able to compare.

Specific setup
Type: Professor XP 1.8 meter
Flow: 25 l/s at 60 Pa
Temperature: 14°C/17°C/25°C





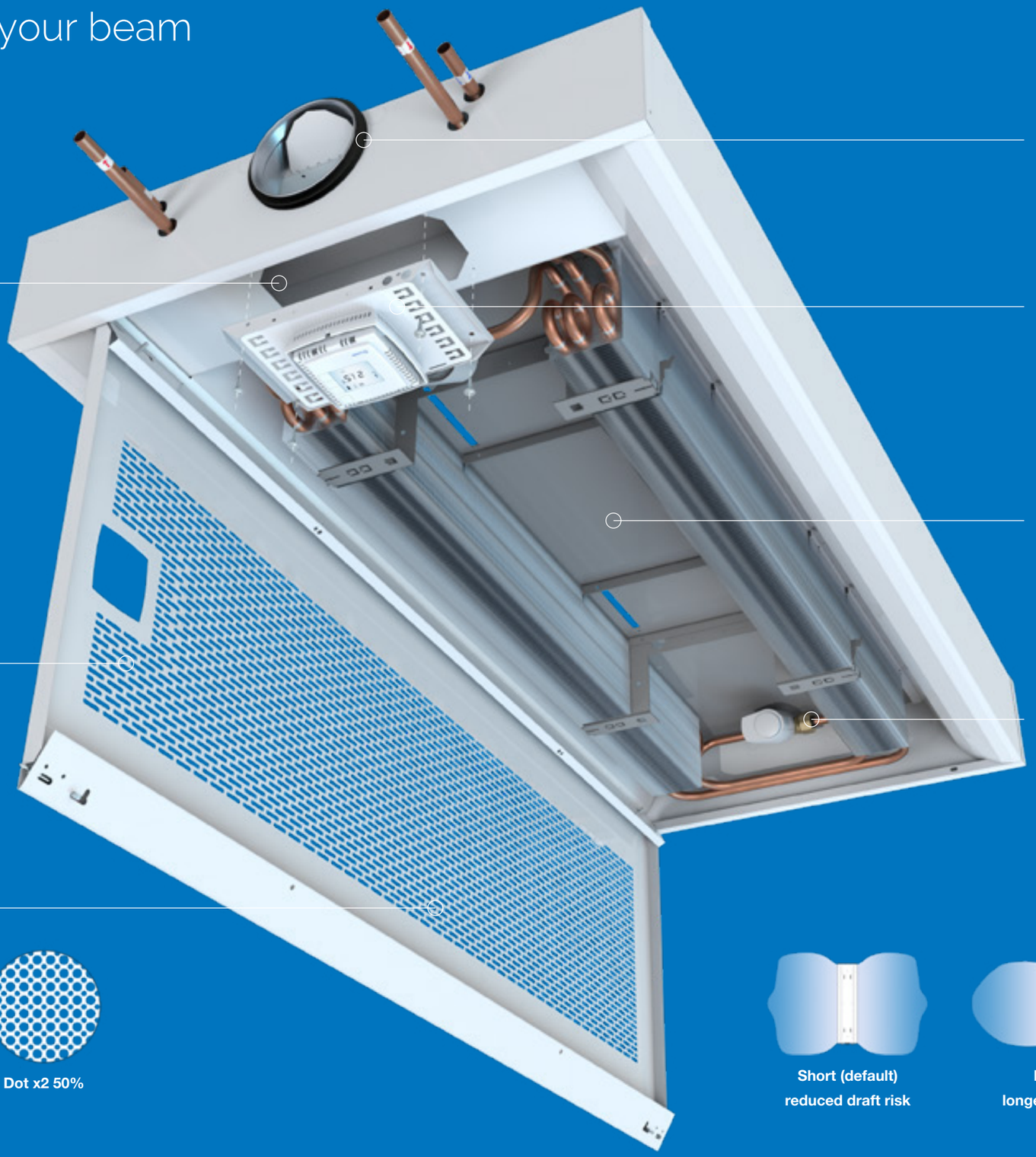
Minimum
4 pipe configuration.

Medium
6 pipe configuration.

High
8 pipe configuration.

Maximum
12 pipe configuration.

Flexible design of your beam



Easy to clean and maintain

– everything is accessible from below
– battery easily accessible from three sides

Plus features: ventilation

– additional air connection
– extract valve

Design options

– signal white RAL 9003 (standard)
– pure white RAL 9010
– other RAL colours on request

Perforation patterns

Slot 50%
default

Dot 38%
only F-60/I-60

Dot x2 50%

Lindab SAFE gaskets

– fast and secure installation
– tightness class D

Regulation equipment

– Regula Combi
– Regula Secura condensation sensor
– Regula connect card

Free space for special features

– integrated light
– sprinklers
– speakers
– and more...

Plus feature: new control valve

– precise room temperature control
– low energy loss
– low sound generation

Air distribution pattern

Short (default)
reduced draft risk

Medium
longer air throws

Long
high open space

Professor XP offers great flexibility during planning and installation

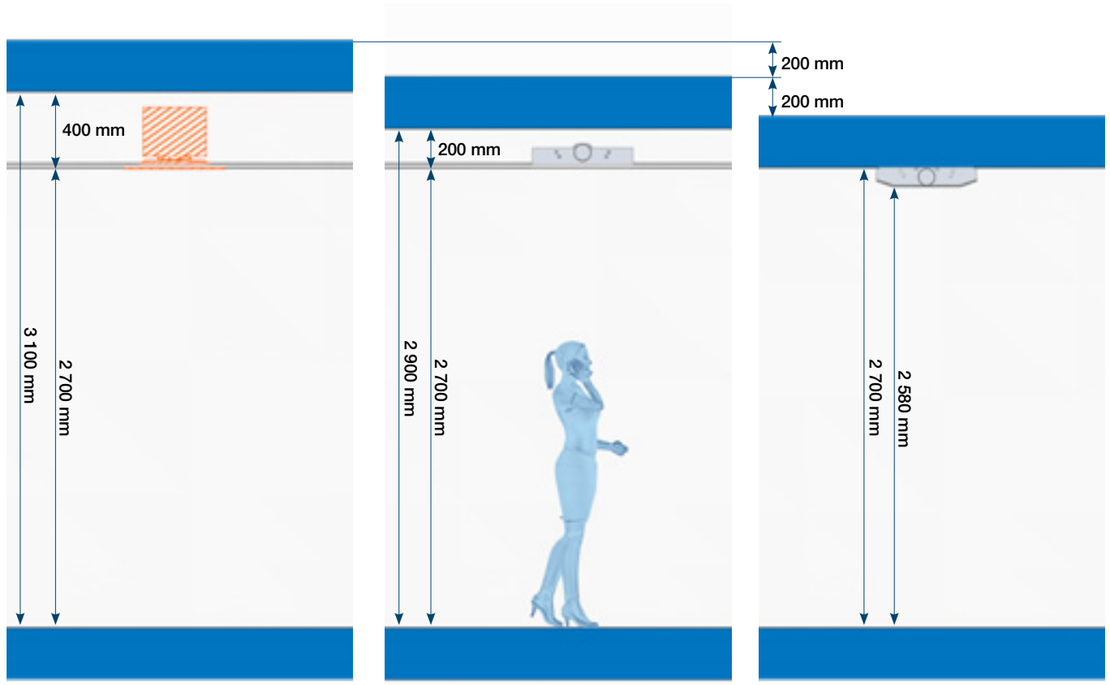
Professor XP is the lowest beam on the market, which makes it perfect for rooms with low ceilings and shallow voids. In addition, the different ceiling adaptions, the modular battery concept and many tailor fit options makes your planning easy and flexible.

Optimise the room height

Compared to an air solution, the Professor XP is the perfect choice to achieve a low building height. The low height of the casing of Professor XP ranging from 120-146 mm allows you to get more room height both with the integrated and exposed solution.

Save total building height

Example: By reducing the room height by 400 mm you will save 2.8 meters on a seven-floor building and enable large cost savings on the facade or the ability to add an extra floor thus providing a higher return on investment.



Air (or fan coil) solution | Professor XP integrated | Professor XP exposed

Installed recessed in a suspended ceiling

Installed exposed without suspended ceiling

Flexible installation

The Professor XP will be available from 1.2 m up to 3.6 m in steps of 0.1 m providing full flexibility.

Lindab supports you in planning the best ventilation system

LindQST is an online tool that makes it possible to plan, calculate and design your projects.

Calculate cost savings

LindQST makes it easy to choose and configure the options to get the most out of Professor XP, the best performance to the lowest operating cost.

Online documentation

You can find all our products with the latest documentation, save projects and download PDFs, all from one place.

Visit: LindQST

In LindQST you will find

- Indoor climate designer for room design
- Waterborne calculator for product calculation
- Waterborne selector for the best battery configuration

Accessories

Select multiple accessories for Professor XP, such as: connection cover, control equipment, hangers and flexible hoses with push couplings.

Control equipment

Lindab offers control equipment that is very simple to use.

Regula Combi: Control the system sequentially, to avoid the heating and cooling being activated at the same time.

Regula Secura: When the condensation sensor detects condensation, Regula Secura cuts the power supply to the actuator of the chilled beams control valve off and therefore shuts the water flow through the chilled beam.

Regula Connect: Consists of a connection card with connectors for main cables, thermostat cables and terminal blocks for actuator cables.

Connection covers

Upgrade design and hide pipes with a connection cover. This is available for the exposed models XP F-45 and XP F-60.

Technical data

Height	120 mm
Width	450 and 600 mm*
Nominal length	1200 to 3600 (in steps of 100) mm*
Air connections	1x100 or 2x100 mm
Water connections	12 mm
Primary air flow rate	7 to 80 l/s
Total-cooling capacity	up to 2200 W
Total-heating capacity	up to 4050 W
Static nozzle pressure loss	30 to 120 Pa

**Width and length depending on ceiling adaption.*

Eurovent certi ied

Lindab's active chilled beams are Eurovent certified and tested according to EN-15116

EUROVENT CERTIFIED PERFORMANCE
CB
Identification number 08.01.403
www.eurovent-certification.com

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

Lindab®