



Lindab  
Multi-Service Chiled Beams



[www.lindabbuildings.com](http://www.lindabbuildings.com)



# Lindab Group

Lindab is an international Group that develops, manufactures, markets and distributes products and system solutions primarily in steel for simplified construction and improved indoor climate.



Ventilation



Building components



The products are characterized by their high quality, ease of assembly, energy efficiency, consideration towards the environment, and are delivered with high levels of service. Altogether, this increases customer value.

The Group had net sales of SEK 6,878m in 2011, was established in 31 countries and had approximately 4,300 employees.

The share is listed on the Nasdaq OMX Nordic Exchange, Stockholm, Mid Cap, under the ticker symbol LIAB.

The principal shareholders are Creades, Ratos, Sjötte AP-fonden and Skandia Liv.





# Lindab Reference

Preferred supplier for ventilation and comfort solutions



Pentagon, Washington D.C.



Kongelige Teaters Operahus, Copenhagen



Pareto Print, Tver



Dexia Towers  
Brussels



BMW factory  
Leipzig



Copenhagen Airport



Finnish State Palace,

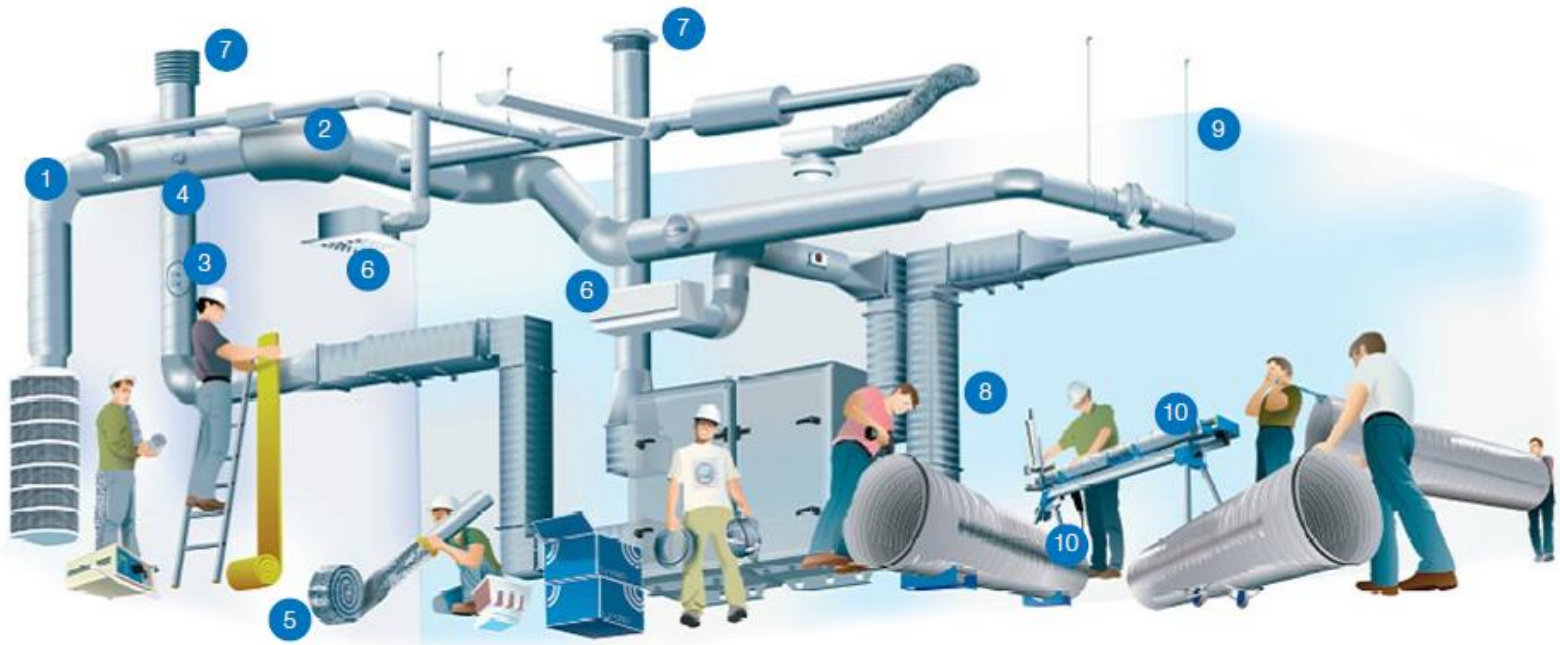


Lombardia Center, Milano



# Ventilation business area

## Lindab Ventilation



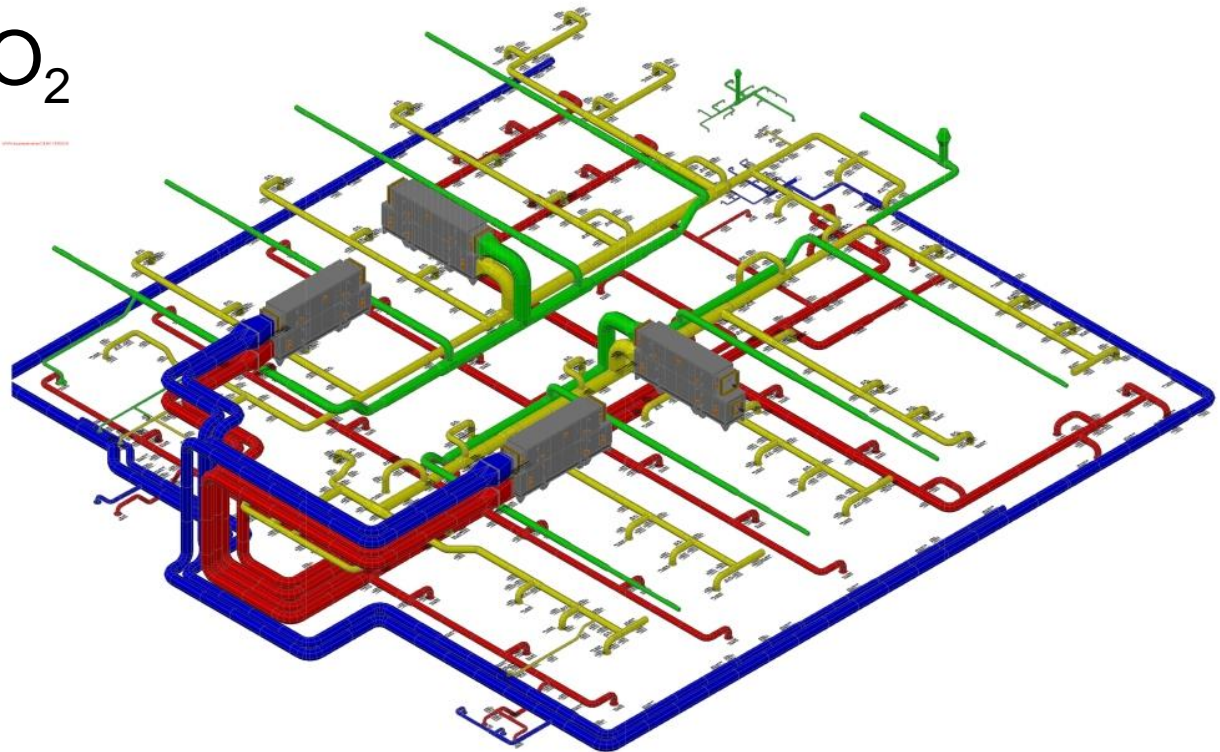
- |                             |                      |                                       |
|-----------------------------|----------------------|---------------------------------------|
| 1. Lindab safe              | 5. Flexible ducting  | 9. Duct suspensions & support systems |
| 2. Silencers                | 6. Comfort           | 10. Other products                    |
| 3. Access doors             | 7. Roof hoods        | 11. IT solutions                      |
| 4. Pampers and mesure units | 8. Recrangle systems |                                       |



# Engineering systems

## Comfort Level – People's performance

- Air quality - CO<sub>2</sub>
- Temperature
- Humidity
- Lighting
- Noise level
- Air velocity

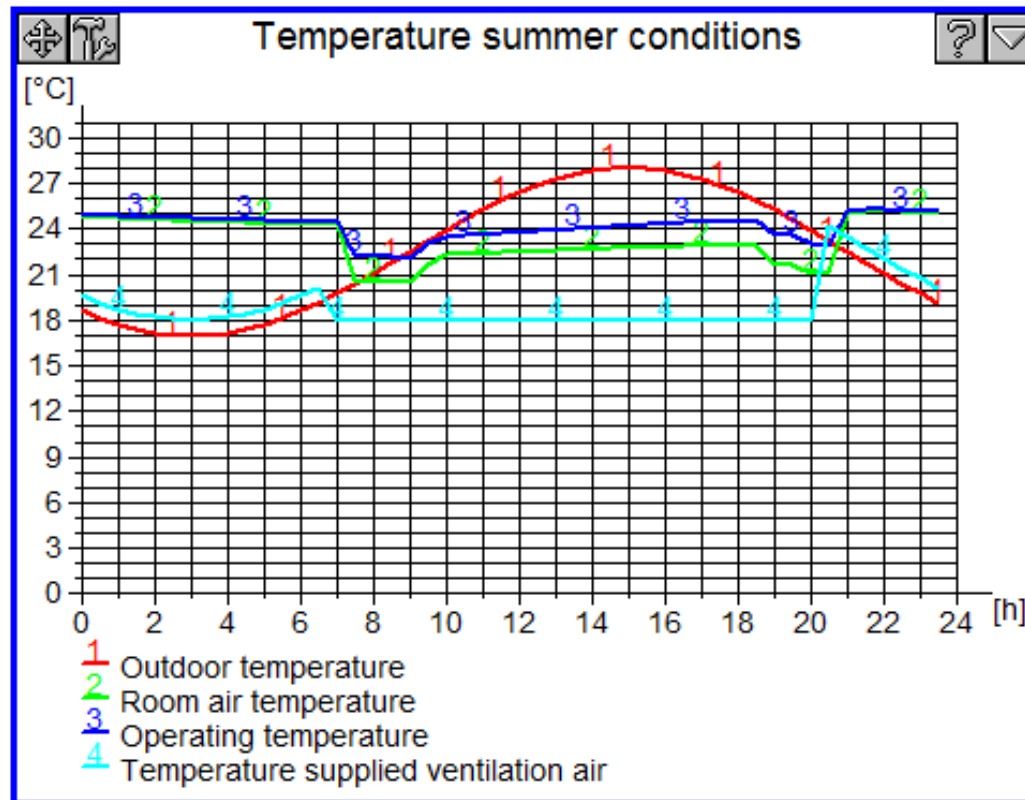






# Engineering systems

The demand for energy is a variable value!  
Example: External factor of weather conditions





# Engineering systems

The demand for energy is a variable value!  
Example: Internal factor of employee presence %





# Engineering systems

The demand for energy is a variable value!

But system designed for peak value!





# Building automation

## You always have a choice

### Constant performance



### Demand controlled regulation





# Demand controlled regulation

Measuring



Calculation



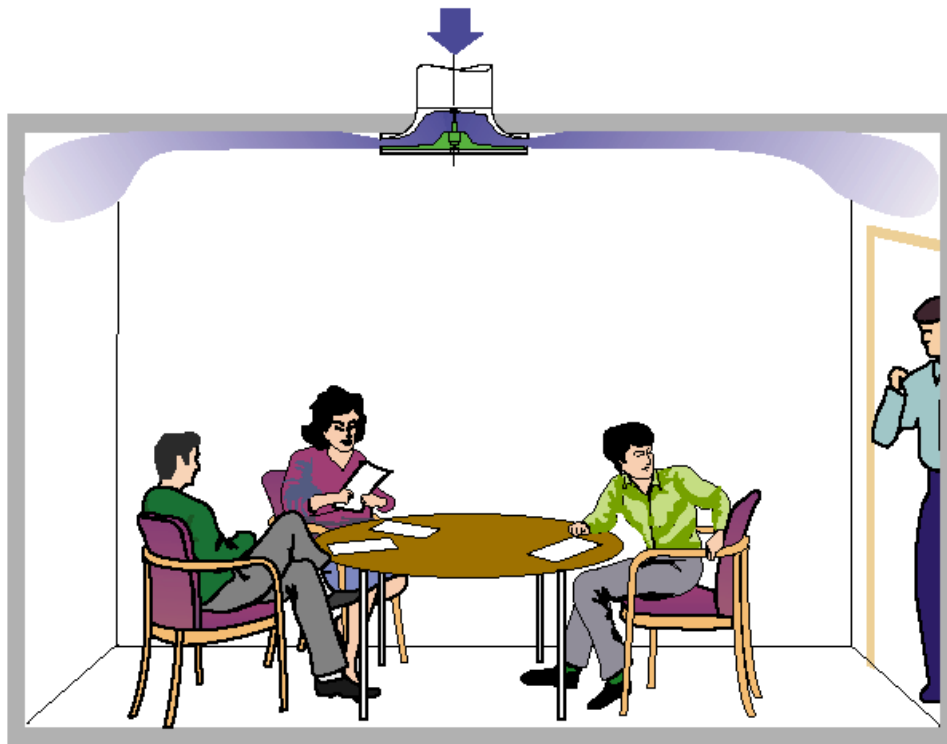
Adjustment





# Demand controlled regulation

Air quality - CO<sub>2</sub>

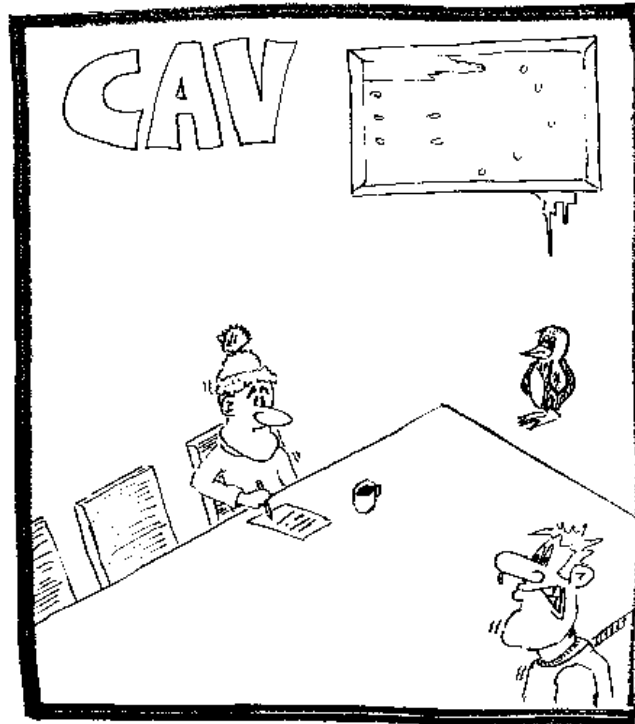
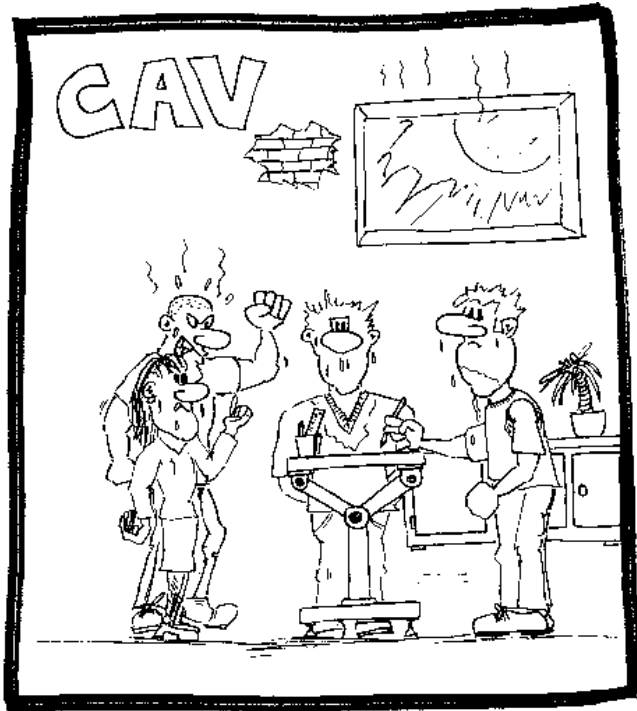






# Demand controlled regulation

## Temperature





# Demand controlled regulation

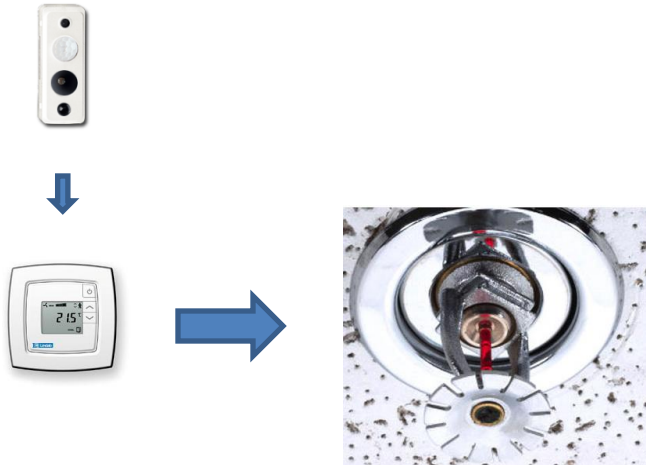
## Humidity





# Demand controlled regulation

## Humidity

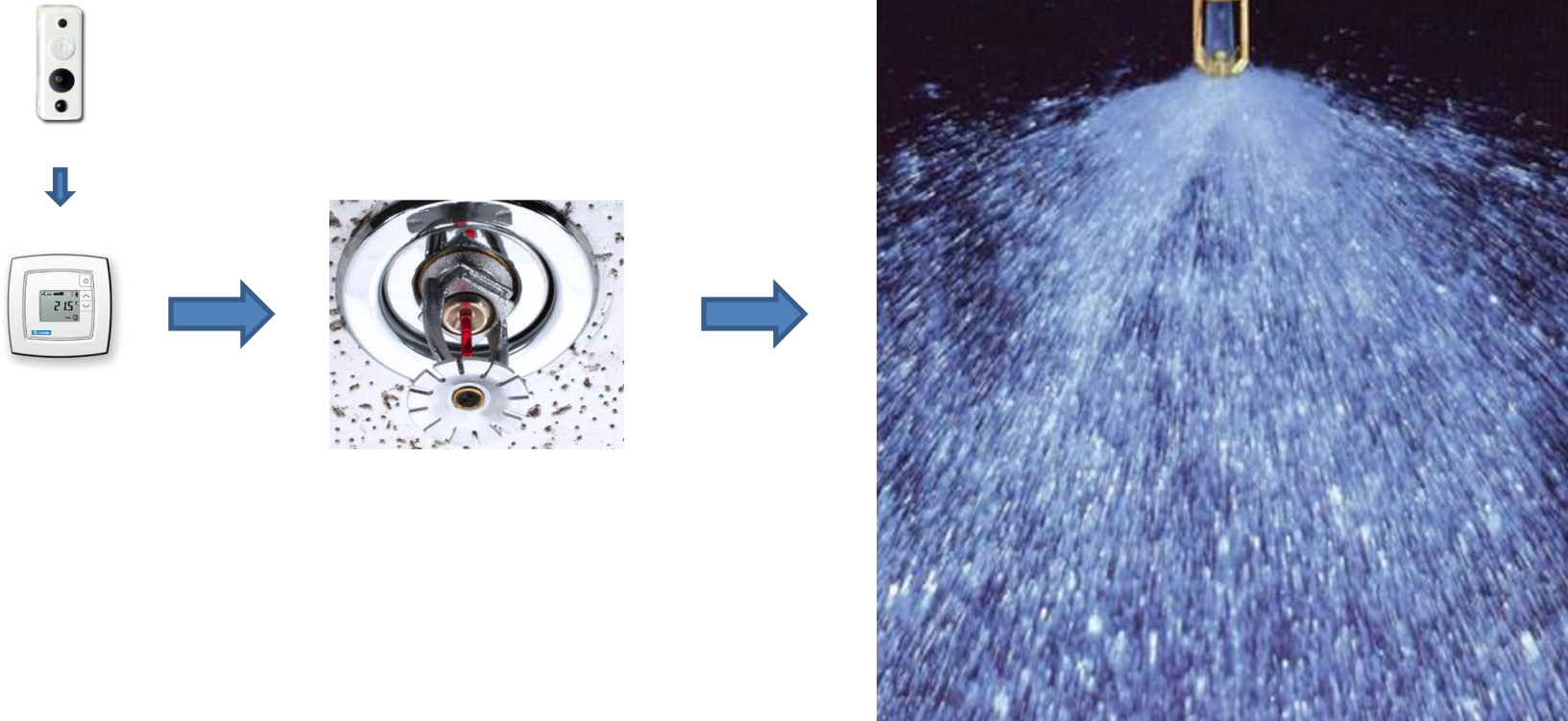






# Demand controlled regulation

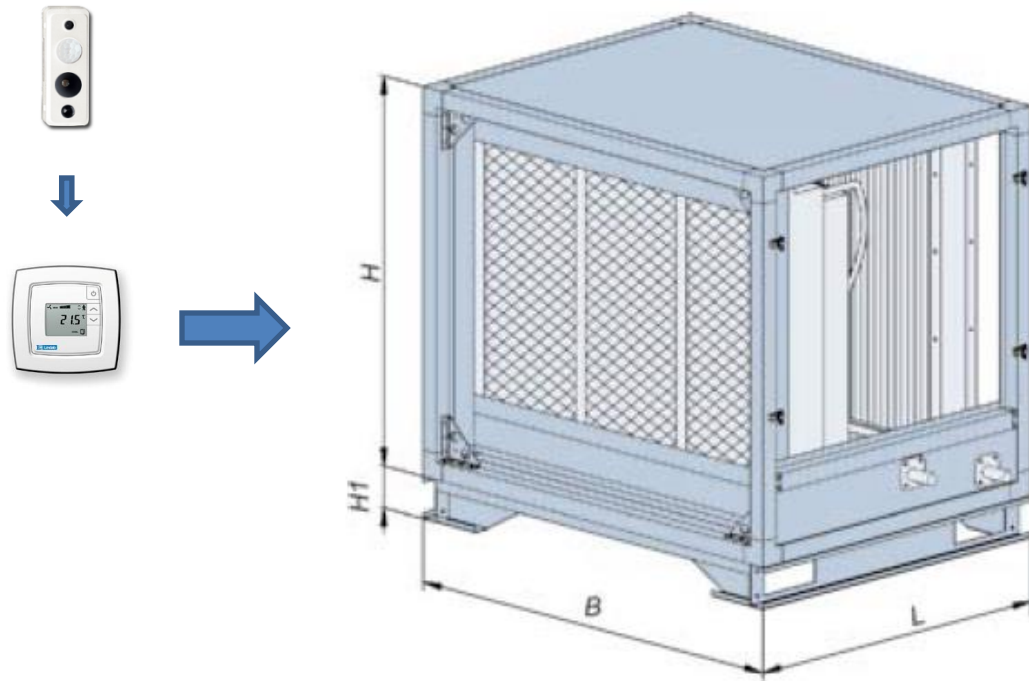
## Humidity





# Demand controlled regulation

## Humidity





# Demand controlled regulation

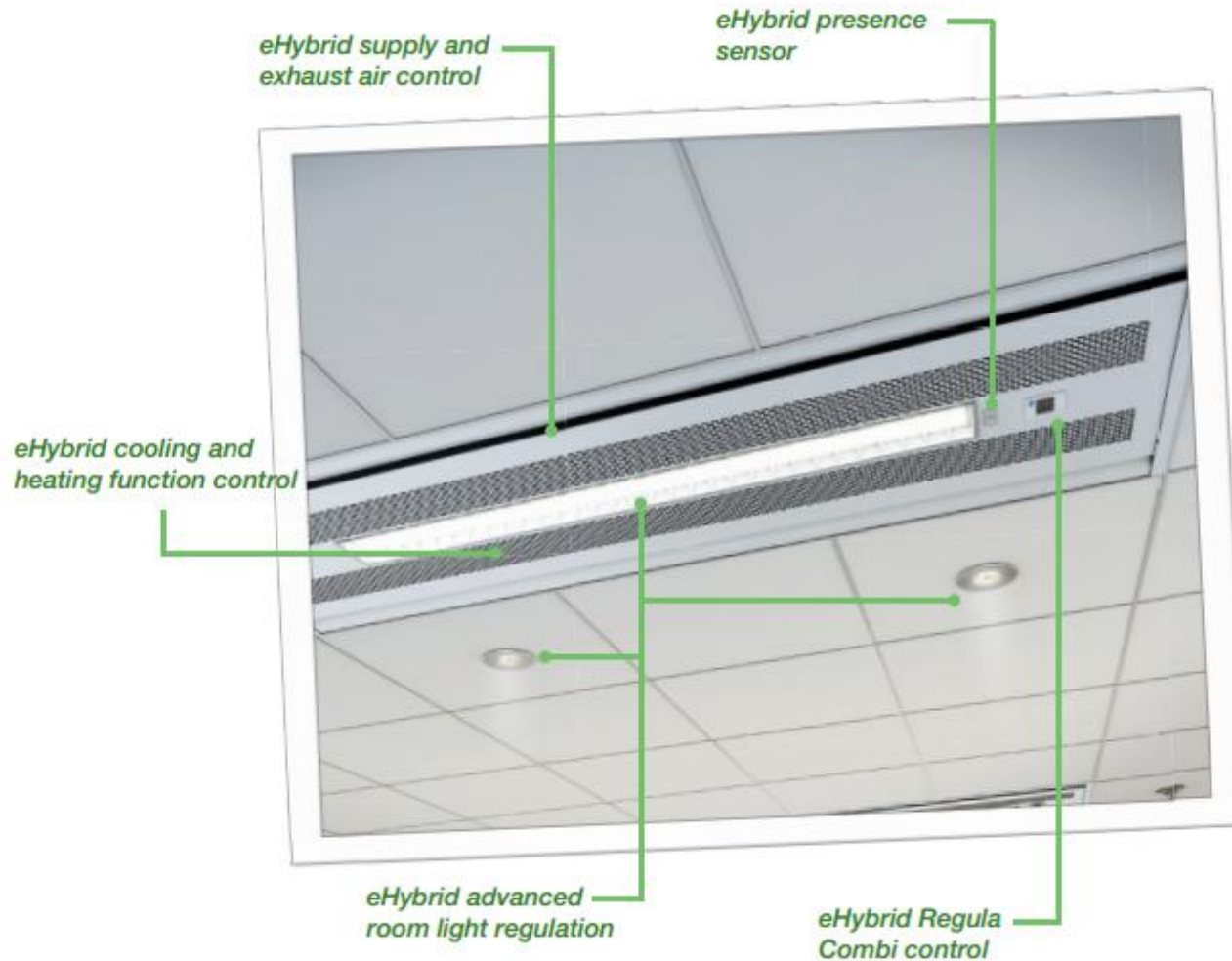
## Lighting







# Demand controlled regulation





# Demand controlled regulation





# Demand controlled regulation







# eHybrid

## - Design a sustainable future...

**Lindab let's you design a sustainable future at no extra cost!**

Lindab have combining all supplying functions into one 'plug and play' unit:

- Ventilation
- Heating
- Cooling
- Lighting

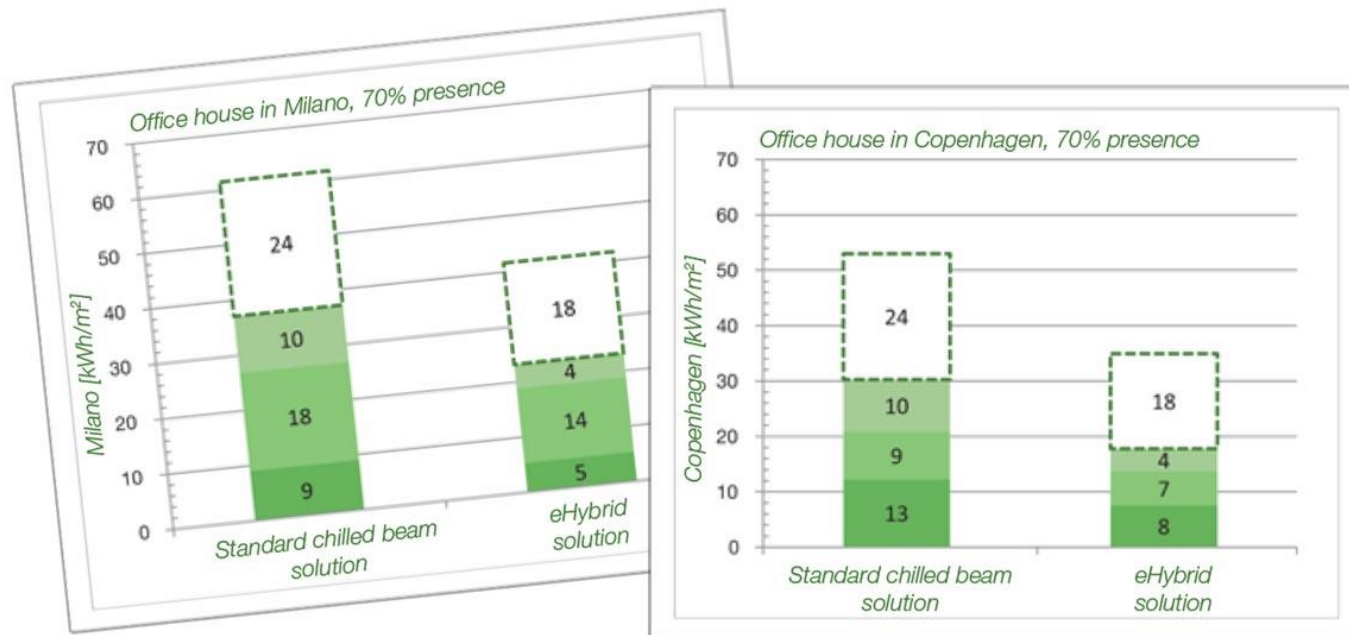
This saves both space and installation costs. In practise, this means the best indoor climate at no additional cost, and with the 34% lower energy consumption.

The eHybrid solution sets new standards for an economical, sustainable and comfortable indoor climate



# Demand controlled regulation

25-35% energy savings!



□ Lighting   ■ Fans & pumps   ■ Cooling   ■ Heating



# Q&A





# Thank you for attention!





Sustainable building solutions  
to work and live in  
across EU, Russia and CIS



[www.lindabbuildings.com](http://www.lindabbuildings.com)