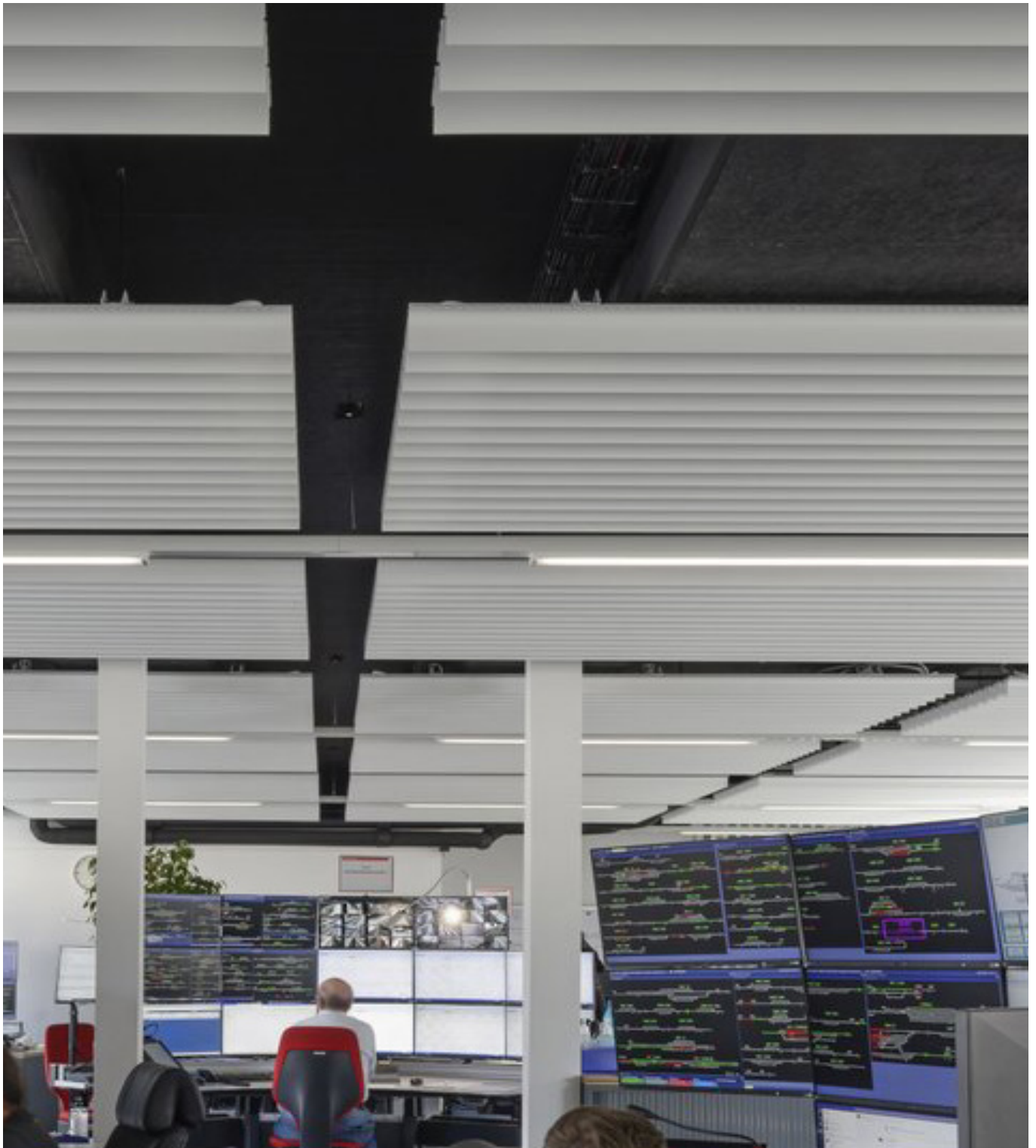


ALBATROS

High performance module



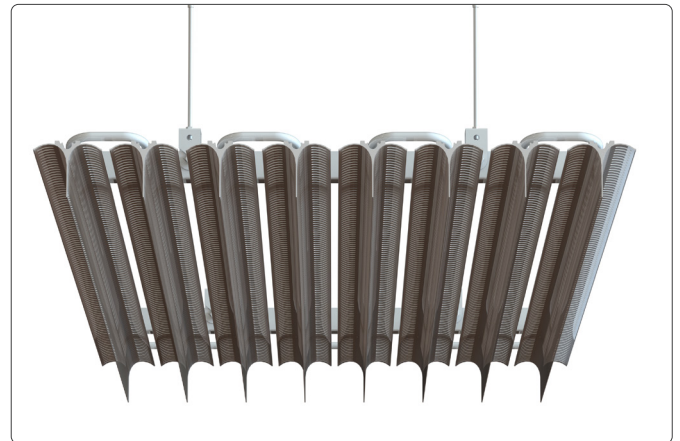
BARCOL-AIR 
by Swegon

zent-frenger 
by Swegon

Convincingly designed

The high performance fin Albatros is a climate ceiling system for rooms with a high cooling and / or heating requirement. With its slotted aluminum fins in the shape of a wing, the Albatros provides a very high thermal performance. The result is a lower occupancy of the ceiling area. When combined with the sound absorber structure (optional), Albatros also has a good acoustic effectiveness.

- Exceptional design / performance concept
- Very powerful
- Good acoustic effectiveness
- Easy construction



Ceiling system
open

Operating principle
Convection

Air supply
visible

Capacity (water)

Cooling: up to 230 w/m² (8 K), EN 14240:2004
Heating: up to 303 w/m² (15 K), EN 14037:2016

Acoustics (with sound absorber)

α_w : up to 0,85
Sound absorption class B, EN ISO 11654

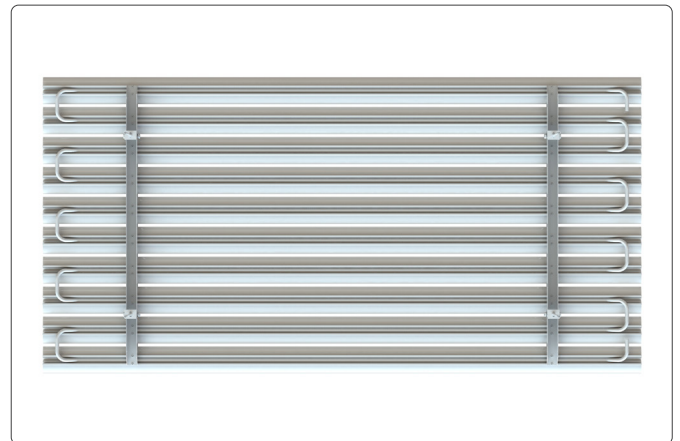
Room comfort

Thermal comfort according to EN ISO 7730, SIA 382/1

Activation

Water system

- Copper tube meander pressed into the aluminium profile
- Copper tube: \varnothing outer 12 mm



Functions



Cover picture: Albatros in the operations center of the Rhaetian Railway, Landquart, CH

Capacity

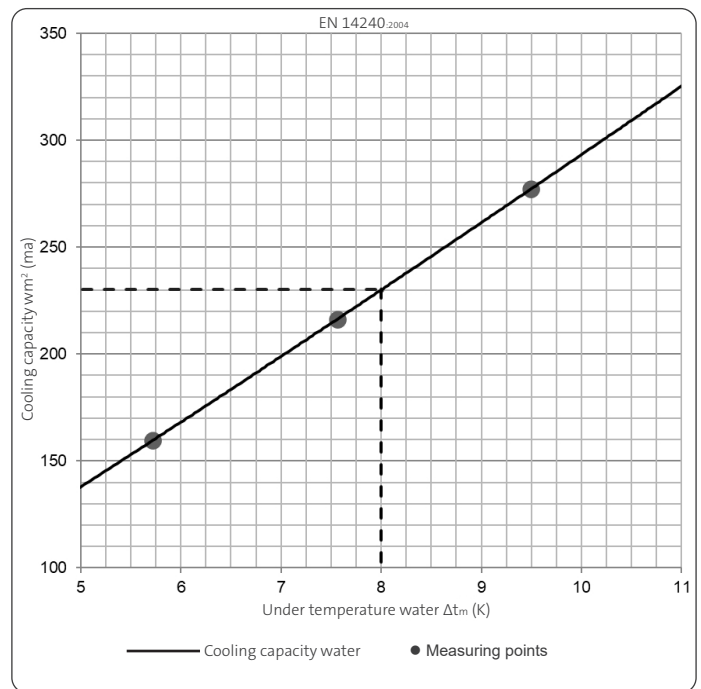
Initial data

Module dimension	2 modules with each 10 fins
Module length	2000 mm
Installation height	280 mm
Supply / Exhaust air (Possible combinations with ventilation system on request. With supply air, the output increases by + 5% in office and by up to + 30% in industrial situations.)	without



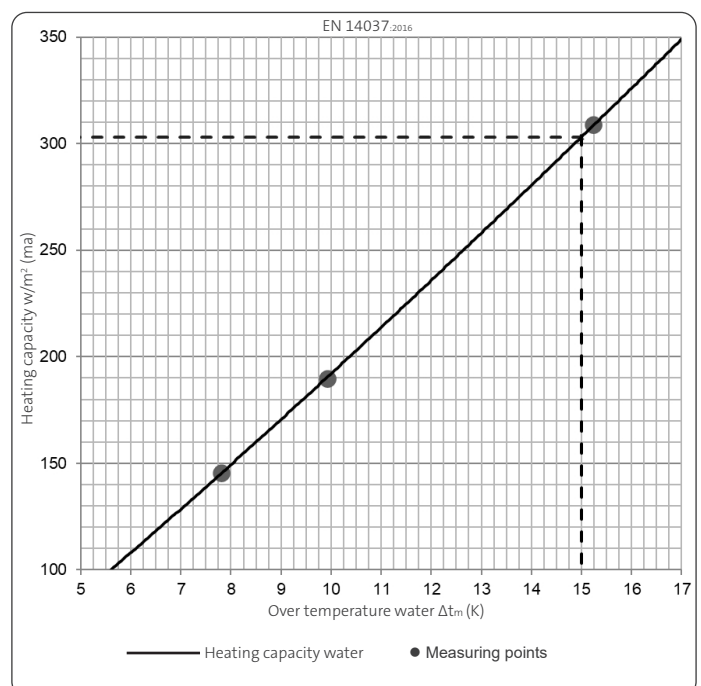
Cooling

- up to 230 w/m² (8 K)



Heating

- up to 303 w/m² (15 K)

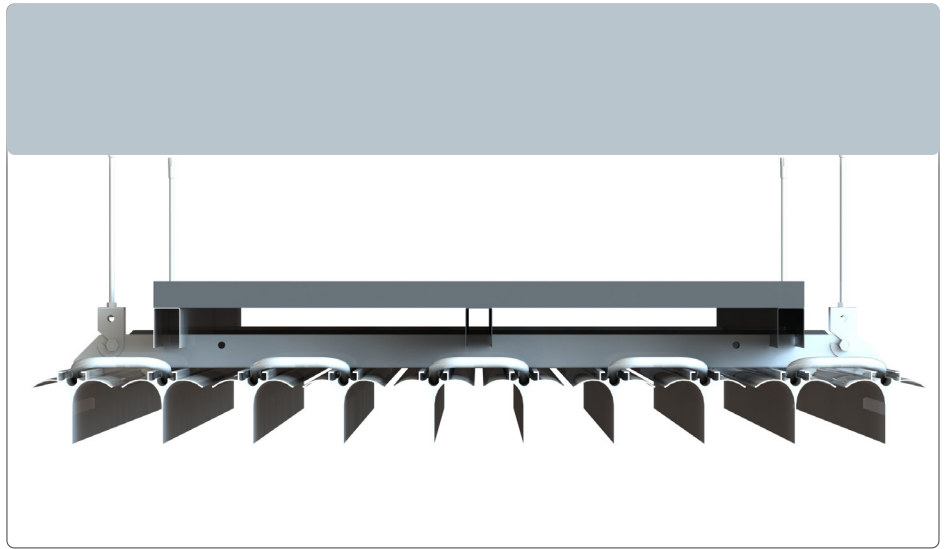




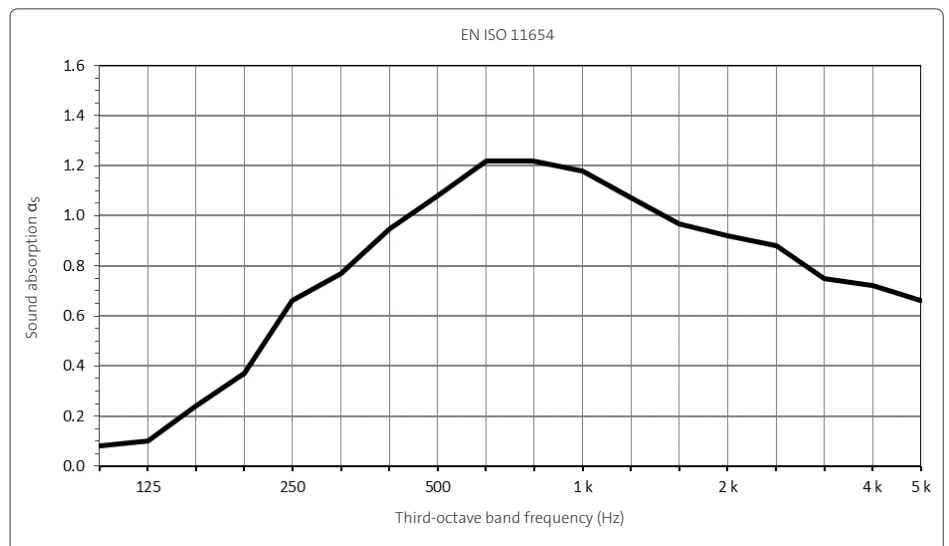
Acoustics

Combined with sound absorber:

- Sound absorber structure with acoustic mat (mineral wool)



- α_w : up to 0,85
- Sound absorption class B



Fire protection

- Building material class A2-s1, d0, EN 13501-1 (without sound absorber)

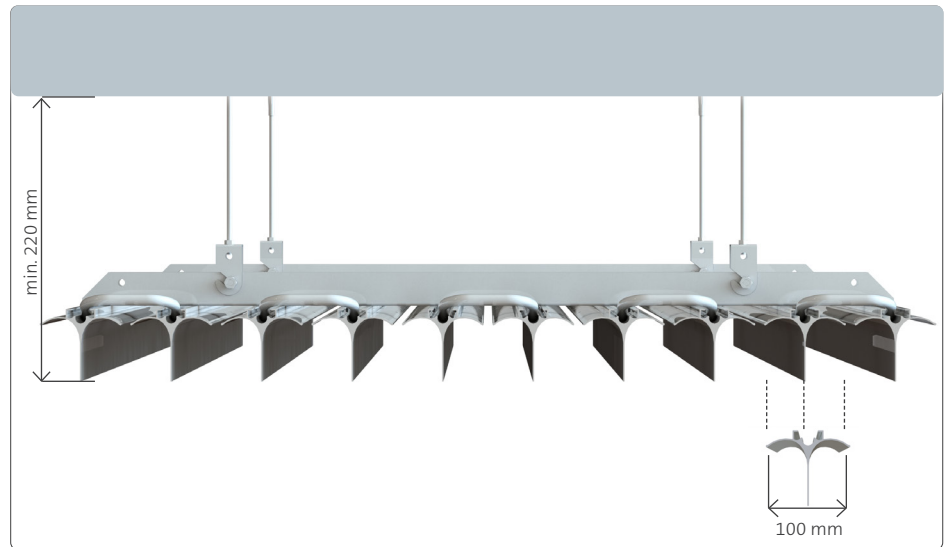
Technical specifications

Construction

- Ceiling system
 - Ceiling element made of aluminum with slotted fins in the form of wings
- Installation system
 - Free-hanging with threaded rods or ropes

Dimensions and weight

- Dimensions
 - Installation height: min. 220 mm
 - Dimensions standard:
 - Module length: 600 – 3000 mm
 - Module width: 290 – 990 mm
 - Module height: 170 mm
 - Special dimensions on request
- Weight
 - 15,5 kg/m² (incl. water)



Versions

- Surface: Powder coating
- Colours:
 - Standard RAL 9010
 - other RAL / NCS colours on request

System / Operation

Water

Recommended:

- Temperature
 - Cooling 16 – 18 °C
 - Heating 28 – 37 °C
- Temperature distance Δt (in-out): 2 – 3 K
- Pressure drop: 20 – 25 kPa
- Water flow: 90 – 200 l/h
- Max. operating pressure: up to 9 bar
- Water quality: SWKI BT 102-01 / BTGA 3.003 / VDI 2035

Surrounding

- Ambient temperatures: +5 – 50 °C
- Humidity: up to 90 % relative humidity

Certification

- ISO 9001

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Technical changes reserved 02/2022

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