



CLIMATE CEILING SYSTEMS

Tailor-made climate ceiling solutions
for a pleasant room climate

« Feel good inside » that's our promise

We support our partners throughout all phases of the construction process, from the initial design to commissioning. During the design phase of your project, we provide you with planning documentation focused on energy efficiency and indoor comfort.

Whilst developing your building concept, we will help you decide on the room climate criteria, based on the user requirements in relation to thermal comfort.

Our climate ceilings impress, thanks to their high energy efficiency. This allows the user to set higher system temperatures (water, air) for cooling than with conventional systems. Conversely, system temperatures can be set lower for heating. Depending on the generation system, control strategy and operating conditions, moderate system temperatures can reduce the system's energy demand.

A further advantage is the thermal comfort afforded by the system. Rooms in which the temperature is controlled by a climate ceiling are very comfortable because they are not affected by draughts and the radiant heating and cooling are perceived as gentle and comfortable.

■ **Competent support throughout every project phase:**

our expertise is the basis of the service we provide.

■ **Flexible systems** which can be tailored to the specific requirements of your project

■ **Efficient execution** that brings you advantages – because time is an important economic factor

We look forward to a long and successful collaboration with you!

Digital overview brochure



Tailor-made climate ceiling solutions

Professional - Flexible - Efficient

October 2026

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Symbols

Water



Cooling/heating



Acoustics



Integral components



Building mass connection



Invisible air intake



*Currently only available in Switzerland

**Currently not available in Switzerland

Optimal indoor climate with Barcol-Air products

The ideal room climate is a must for wellbeing in offices, conference rooms and hotels.

Our climate ceiling systems for heating and cooling are inspired by the natural heat radiation of the sun and are based on extremely efficient heat transfer. The systems operate with over 60 % radiation, whilst the rest is accounted for by natural convection. This form of thermal transfer makes it possible to achieve optimum temperature control in the room. In summer and winter, adjusted room air temperatures can support efficient operation, provided that thermal comfort criteria are met.

Thanks to the radiation principle, surface temperatures in the room are regulated without generating noise or draughts, making it possible to keep the air temperature slightly lower when heating and slightly higher when cooling than with conventional systems. Thanks to their moderate supply water temperatures, climate ceiling systems are well suited to operation with heat pumps. Depending on the heating and cooling generation system and control strategy, this can reduce energy demand and operating costs.

Our versatile climate ceiling systems are suitable for a range of ceiling constructions including metal ceiling systems, free-hanging sails and special geometries. A further area of application is the thermal activation of plasterboard ceilings, which can be used to create large, jointless ceiling installations.

**« Indoor environments
that help people feel,
think and perform better. »**



Professional – Flexible – Efficient

Comprehensive project management – we pursue our passion and ease your burden

We offer advice to our partners throughout the construction process – from the initial design until the building is in use. During the design phase of your project, we will provide you with documentation on sustainable building design, recommendations for low energy systems and cost estimates for the various solutions. Whilst developing your building concept, we will help you decide on the room climate and thermal comfort criteria, based on the user requirements in relation to heating and cooling.

Modern production centre in Germany

Our own production centre for climate ceiling systems guarantees the manufacture of high quality systems, both in terms of materials and production technology. Furthermore, customers can also benefit from a high degree of delivery flexibility and reliable delivery schedules.



Play Video

- CNC-controlled production plant
- Laser spot welding process
- Modern production processes
- Interface to Clim@Tool

Research & development

We operate a climate laboratory at our headquarter in Switzerland for product development, where we also carry out various measurements and analyses at project-specific level. This means it is possible to test and confirm the faultless functionality of the solutions as early as the planning phase.



Play Video

- Proof of performance of project-specific climate ceiling solutions
- Static and dynamic performance measurements of climate ceiling systems
- Indoor air speed and thermal comfort measurements
- Special measurements (e.g. control strategy, cold air drop, etc.)

3D design with BIM

Building Information Modeling (BIM) is a digital, model-based planning method for buildings and other structures. It is used to create and manage data within a 3D model and supports the entire process from planning and construction through to operation.

We support digital building modeling by providing project-specific 3D models for climate ceiling systems and 3D models for ventilation components using Revit BIM software.



Sustainability at Barcol-Air

Our Path Towards Sustainability

As a company in the refrigeration and air conditioning industry, we can actively contribute to environmental and climate protection. With the measures we have already implemented and our medium-term goals, we are pursuing an ambitious plan.



Environmental Product Declarations

An Environmental Product Declaration (EPD) is an independently verified and registered document that gives transparent information about the environmental impacts of a product over its lifecycle.

At Swegon Group, sustainability is first and foremost the foundation of everything we do. This includes not only developing energy-efficient products and using suitable materials, but also documenting and disclosing the environmental impact of each product.



Building mass connection with our hybrid systems

Free cooling uses low outdoor temperatures as a natural cooling source, for example at night. Under suitable temperature conditions, this can reduce the load on the chiller or allow it to remain switched off.

Thermal coupling with the building mass allows some of the heat generated during the day to be temporarily stored within the structure and removed at night. This can support the use of free cooling and reduce the energy required for cooling. Effective operation relies on a building-specific design and control strategy that takes indoor climate requirements into account.



You can find more information in our documents:

« Climate ceilings with mass connection »



Scan me

« Closed and wood-hybrid climate ceilings with building mass coupling »



Scan me



RYKO ceiling system

The A11-S and SPECTRA M-S climate ceiling systems can be installed using the patented RYKO ceiling system. It allows flexible positioning of the ceiling panels within the system specifications, without special edge bends or notches. The system supports a stable ceiling structure, facilitates installation and enables precise joint alignment.

The ceiling sails can also be adapted at a later stage: existing ceiling panels can be rearranged and reused. This can reduce the need for new ceiling panels when modifying the installation.



Play Video

Carbon-reduced steel for climate ceilings

A significant proportion of a building's CO₂e emissions occurs before it is even occupied, including during the production of construction materials. For metal components such as climate ceilings, the choice of materials can help reduce a project's carbon footprint.

Using CO₂-reduced steel is one possible measure. The emissions reduction takes place directly during steel production, which accounts for a significant share of the material-related CO₂e emissions.

Physical principles

The principle and advantages of thermal radiation

People are sensitive to both air temperature and mean radiant temperature. Climate ceilings control the temperatures of surfaces in a room through the exchange of radiation, not via the air. This means that the air temperature can be set higher in cooling mode and does not need to be cooled to the extent required with conventional systems (for example, 26 °C rather than 23 °C). When heating, on the other hand, the room temperature can be set slightly lower without adversely affecting comfort (e.g. 20 °C rather than 23 °C). This results in high thermal comfort among room users, whilst simultaneously reducing the energy consumed by the system.

Ceiling response speed with thermal radiation

When a climate ceiling is switched on, the effect is almost instantly discernible. Thermal radiation travels at the speed of light – in contrast to conventional systems, which have to control the temperature of all the air in the room.



You can find more information in our document « The Basic Principles of Climate Ceilings »



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Climate ceiling systems and their advantages

Climate ceiling systems offer an energy-efficient, flexible and comfortable solution for indoor climate control. Employee well-being plays a central role, as a pleasant indoor climate contributes significantly to work performance and overall well-being.

High energy efficiency:

Climate ceiling systems operate with moderate water temperatures. Compared with systems that require colder water for cooling or hotter water for heating, they can use higher flow temperatures in cooling mode and lower flow temperatures in heating mode. Depending on the heating and cooling generation system, design, controls and operating conditions, this can reduce electricity demand. In systems thermally coupled to the building mass, stored heat can be removed at night using free cooling when temperature conditions are suitable.

Healthier and more comfortable ambient air

- **No swirling dust:** Climate ceilings control the temperatures of surfaces in a room and do not generate strong air circulation. This means that less dust is stirred up – a decisive advantage for allergy sufferers and asthmatics.
- **Optimum humidity:** Climate ceilings do not affect the humidity in the room, resulting in a stable and pleasant room climate.
- **Low noise level:** Climate ceilings operate silently, because the air is not temperature controlled – instead, the energy transfer takes place through radiation.
- **No draughts:** The ventilation components of a climate ceiling satisfy all comfort criteria. In the occupied parts of the room, air speeds are always below the maximum level.



Image: © Mark Seelen

Sound absorption with climate ceilings

The ceiling is usually the largest clear surface in a room that can be used effectively for acoustic purposes. It is also horizontal and always relatively close to the source of the noise, which makes it ideal for absorbing sound from the room. Having taken over 200 sound absorption measurements, we can make highly substantiated statements about sound absorption with climate ceilings.

Room acoustics are an important aspect of indoor comfort. Various solutions can help achieve acoustic comfort, provided they are designed to suit the room's characteristics and intended use and follow established acoustic principles. The ceiling is particularly well suited for integrating sound absorption, as it offers a large surface area and can make a significant contribution to good room acoustics.

As a provider of climate ceiling systems specialising in indoor comfort, we regard room acoustics as a significant comfort factor. Corresponding parameters for the different climate ceiling systems are therefore available from certified test institutes for room acoustic planning.



You can find more information in our document « Room acoustics in offices »



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U4X Hybrid system

Hybrid system with thermal building mass connection

The U4X Hybrid system is a multifunctional climate ceiling system for different room temperature control and acoustic requirements. A special feature of the system is the thermal integration of the building mass through direct connection to the concrete ceiling. This means that, in addition to conventional water- and air-based cooling, the storage capacity of the building mass is also available.

The thermal building mass connection allows heat to be stored temporarily in the concrete ceiling and released again later. In this way, the building mass can be integrated specifically into the heating and cooling concept.

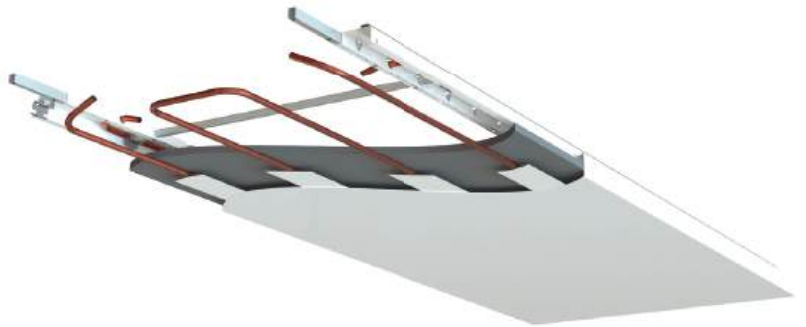
Thanks to the closed ceiling construction, the U4X Hybrid system also achieves good sound absorption values in the lower frequency range.



Delivering enhanced wellbeing

The U4X climate ceiling system is suitable for offices, conference rooms, hotels, schools and other commercial spaces.

It combines heating and cooling, thermal building mass connection and acoustics in one system.





- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Medical facilities
- ✓ Museums / theatres / cinemas

FAVO Hybrid system

Integrated supply air diffuser with thermal building mass connection

Thanks to its versatile properties, our patented FAVO Hybrid system, in combination with the A11-S or SPECTRA M-S radiant ceiling sail or the SOFTLINE WOOD high performance module, combines different functions for room climate control. The solution offers very high heating and cooling capacity as well as a silent and draught-free fresh air supply.

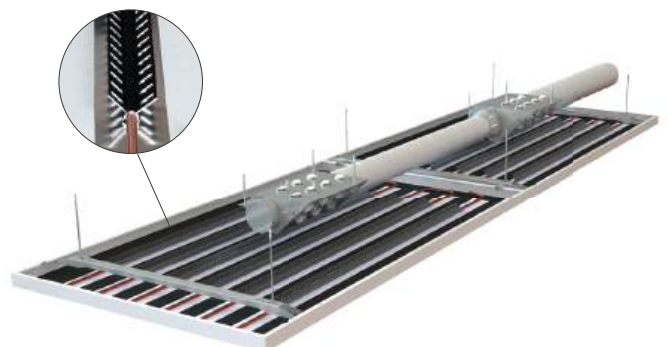
FAVO also integrates the building mass into the overall thermal concept. The building mass acts as an additional thermal storage mass and can absorb heat and release it again at a later time. This allows the thermal storage mass of the building to be incorporated specifically into the heating and cooling concept.

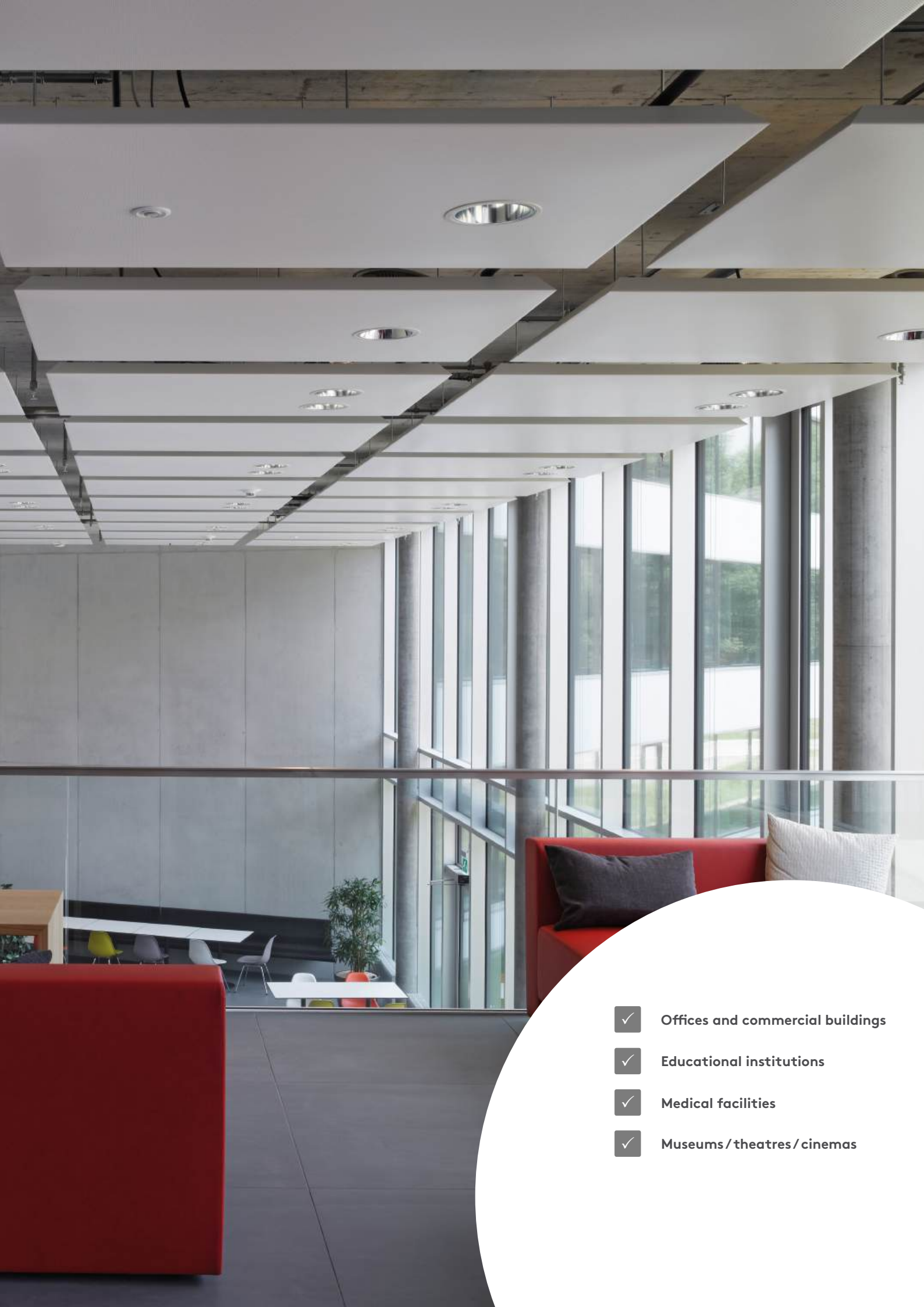


Optional added performance: FAVO + Convector Wings

A further increase in performance can be achieved with the Convector Wings developed and patented by Barcol-Air.

Convector Wings are matt black anodised aluminium profiles with upright and slotted "wings" on both sides. With the profile open at the bottom, the Convector Wings can be attached to the straight sections of a pipe meander. This multiplies the heat exchanger surface area, which in turn leads to an increase of capacity on the water side.





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CAURUS Hybrid system

Integrated supply air diffuser with thermal building mass connection

In combination with the A11-S, SPECTRA M-S or VARICOOL TKM-S ceiling sails or the SOFTLINE WOOD high performance module, the CAURUS Hybrid system combines heating and cooling, supply air distribution and acoustic effectiveness. The system offers very high heating and cooling capacity, silent and draught-free fresh air supply and superior sound absorption values.

Based on the thermo-active building system principle, the climate ceiling system integrates the building mass into the room's overall thermal concept as an additional thermal storage mass. The building mass can absorb heat and release it again at a later time. This allows its storage capacity to be used specifically as part of the heating and cooling concept.



Optional added performance: CAURUS + Convector Wings

A further increase in performance can be achieved with the Convector Wings developed and patented by Barcol-Air.

Convector Wings are matt black anodised aluminium profiles with upright and slotted "wings" on both sides. With the profile open at the bottom, the Convector Wings can be attached to the straight sections of a pipe meander. This multiplies the heat exchanger surface area, which in turn leads to an increase of capacity on the water side.



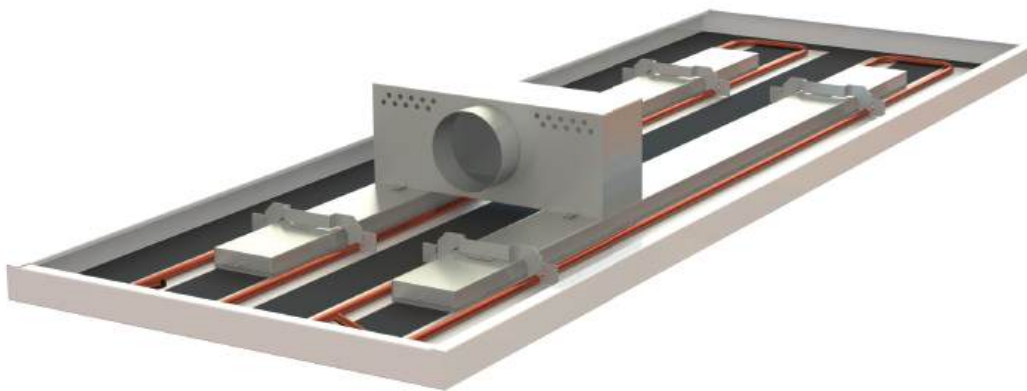
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AQUILO Hybrid system

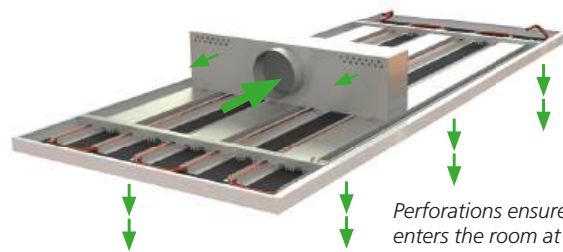
Integrated supply air diffuser with thermal building mass connection

In combination with the A11 or SPECTRA M radiant heating and cooling ceiling systems, AQUILO forms a high-performance climate ceiling system with integrated supply air and superior sound absorption values. The integrated supply air element provides controlled air distribution. At the same time, the supply air jet on the rear side of the ceiling panel supports convective heat transfer and therefore the heating and cooling capacity in the room.

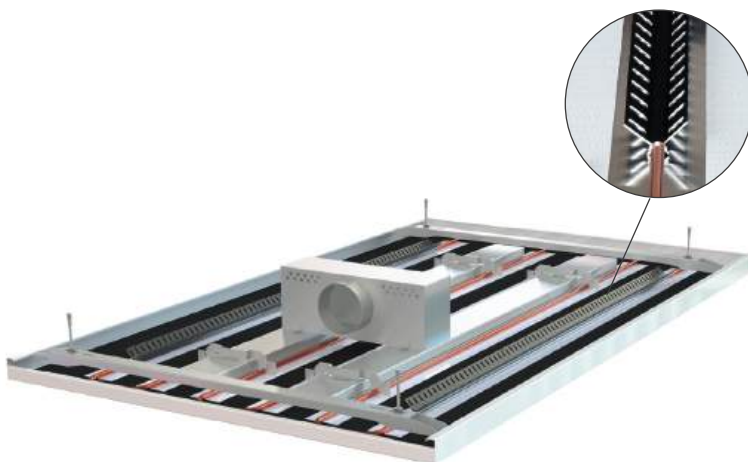
In combination with the A11-C and SPECTRA M-C closed ceiling systems, AQUILO additionally integrates the building mass into the overall thermal concept based on the thermo-active building system principle. The building mass can be used as an additional thermal storage mass.



3-channel type AQUILO with supply air flow characteristics.



Perforations ensure that the supply air enters the room at low velocity



Activated A11-S ceiling panels are suitable for use with Convector Wings.

Optional added performance: AQUILO + Convector Wings

Convector Wings are matt black anodised aluminium profiles with upright and slotted "wings" on both sides. With the profile open at the bottom, the Convector Wings can be attached to the straight sections of a pipe meander. This multiplies the heat exchanger surface area, which in turn leads to an increase of capacity on the water side.



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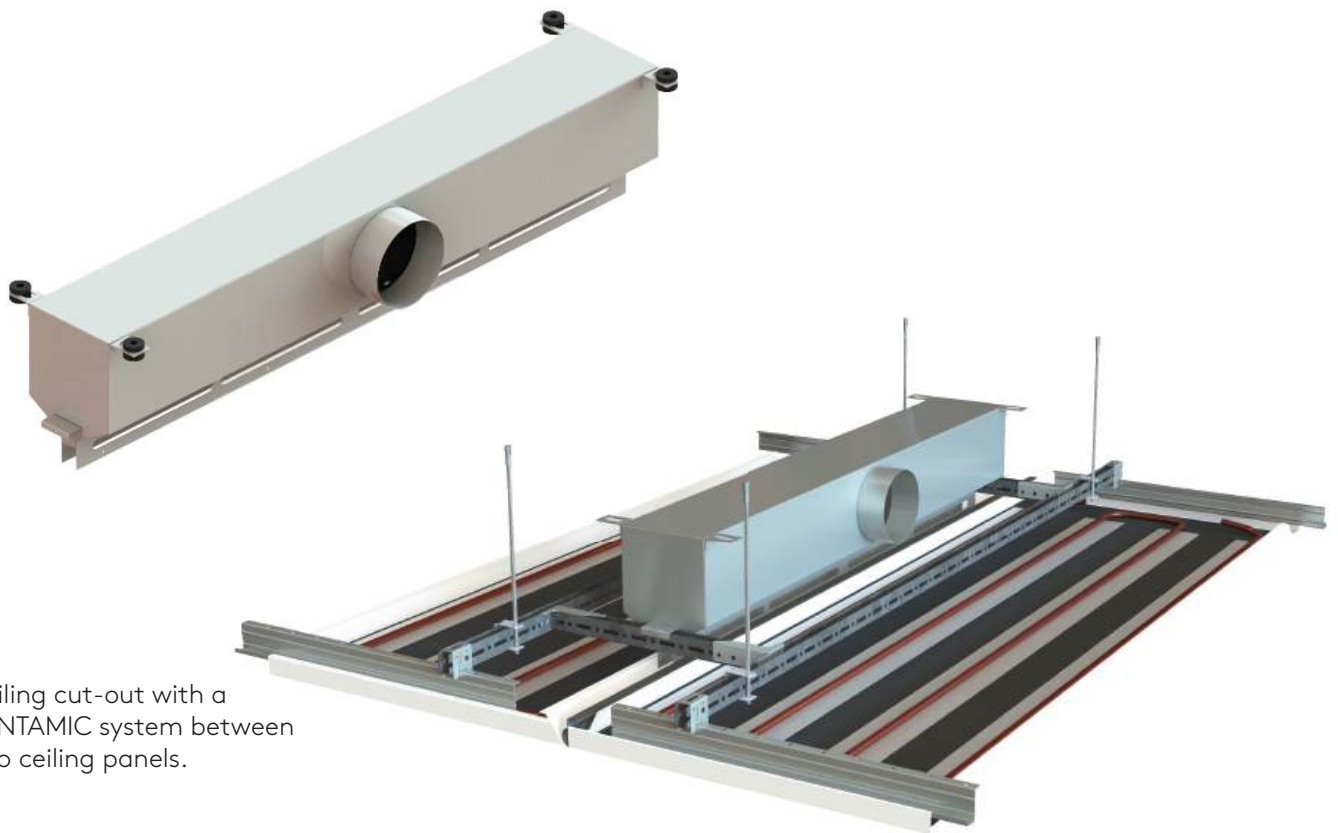
VENTAMIC Hybrid system

Integrated supply air diffuser with thermal building mass connection

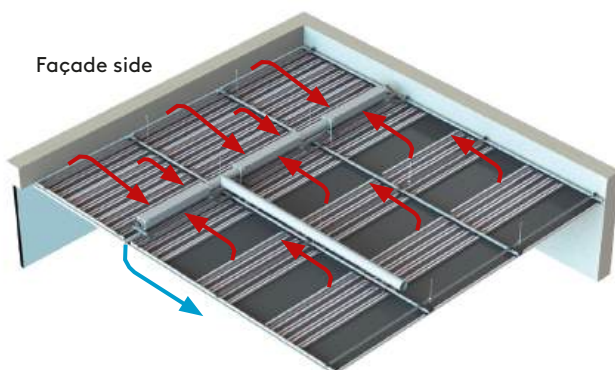
In combination with the A11-C or SPECTRA M-C radiant heating and cooling ceiling systems, VENTAMIC forms a high-performance climate ceiling system with integrated supply air and superior sound absorption values. The air distribution uses the Coanda effect, which keeps air velocity low in the occupied zone.

The supply air jet creates negative pressure in the ceiling void and thereby supports convective heat transfer from the water-based radiant heating and cooling ceiling. This contributes to increasing the heating and cooling capacity.

The system also integrates the building mass into the overall thermal concept based on the thermo-active building system principle. The building mass can be used as an additional thermal storage mass and can temporarily absorb heat and release it again later.



Ceiling cut-out with a VENTAMIC system between two ceiling panels.



Flow characteristics of the supply air

The supply air jet generates negative pressure in the ceiling cavity, which draws warm air from the room through the joints on the façade side and between the ceiling panels, and returns it to the room cooled by the recirculation effect.



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A11-S Climate ceiling sail

The slimline high performance sail

The A11-S radiant ceiling sail is a climate ceiling system with room air flowing around it. It offers very high heating and cooling capacity. If full-surface insulation is omitted, the rear side of the sail can also contribute to heat transfer and thereby support cooling capacity.

The A11 activation is based on a specially developed construction. Copper pipe and aluminium heat-conducting rails are welded together using laser technology. The registers are bonded to the metal panels with a special adhesive under high pressure. This construction supports good heat transfer between the register and the ceiling panel. The bonding technology also allows aluminium panels to be activated, which can provide higher thermal capacity depending on the design.



Optional capacity boost: A11-S + Convector Wings

Capacity can be increased by using the Convector Wings developed and patented by Barcol-Air.

These are matt black anodised aluminium profiles with slotted wings raised on both sides. The profiles are clipped onto the straight sections of the pipe meander. This increases the heat-transfer surface and raises the thermal capacity.





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SPECTRA M-S Climate ceiling sail

A unique climate ceiling system with magnetic force

The SPECTRA M-S radiant ceiling sail is a climate ceiling system with very high heating and cooling capacity and superior sound absorption values. The magnetic connection between the activation register and the ceiling panel enables parallel prefabrication and separate delivery of both components to the construction site, where they are assembled.

The SPECTRA M register is suitable for retrofitting buildings where existing metal ceilings are to be thermally activated later. Furthermore, the registers can be fixed and hydraulically connected independently of the ceiling panels. This means that the heating and cooling technology can be installed and commissioned before the ceiling surface is completed. The registers can also be used in advance for temporary construction heating.

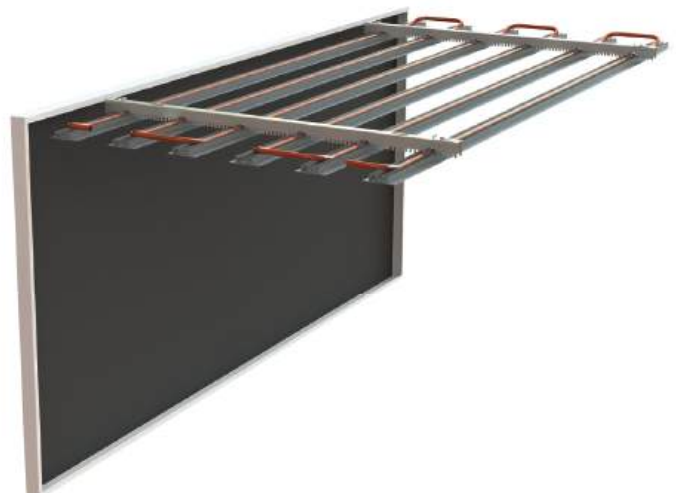
To support acoustic effectiveness, an acoustic fleece is applied to the rear side of the ceiling panels. In areas with higher acoustic requirements, insulation strips can also be inserted at the sides of the register.

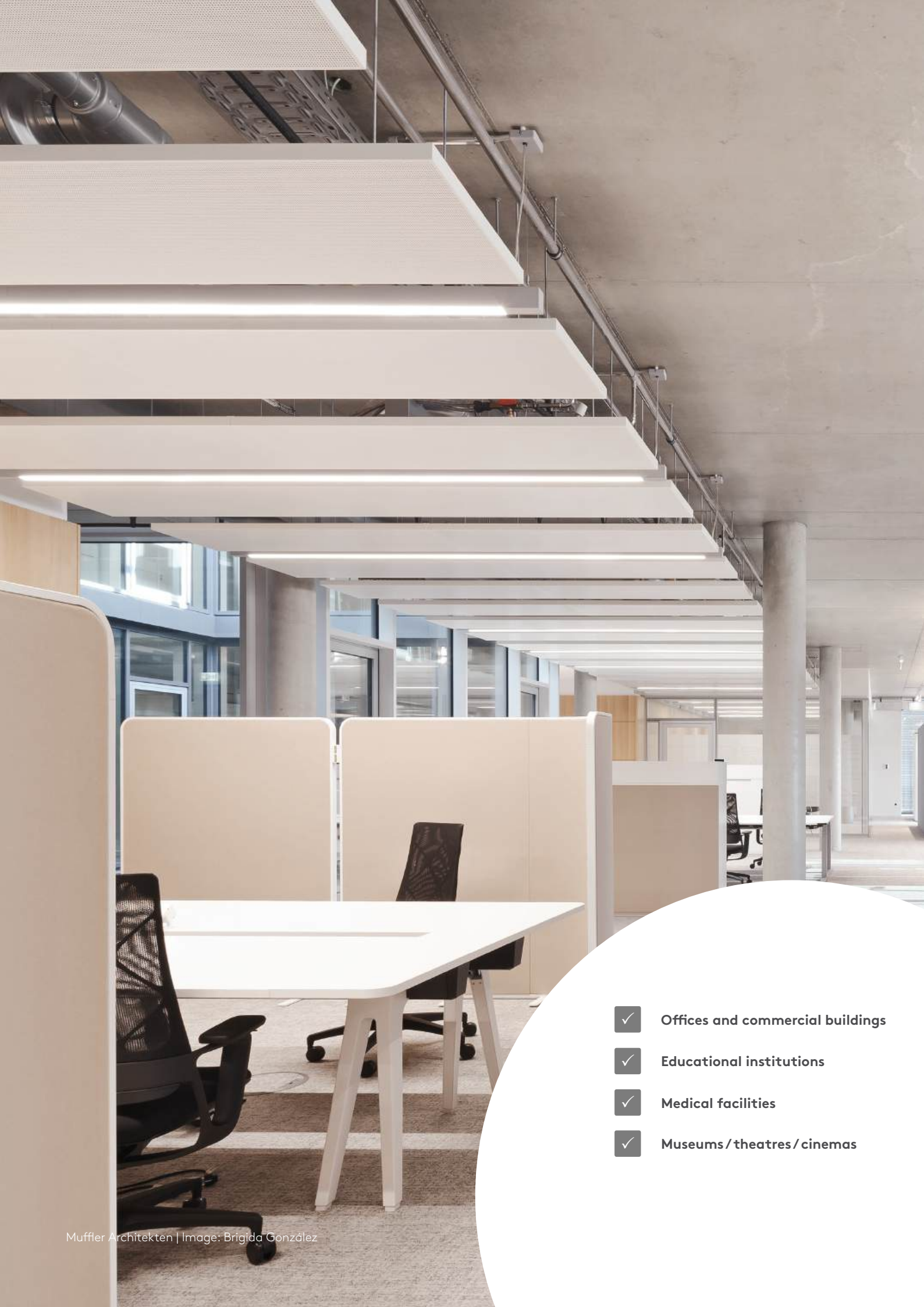
The design of the SPECTRA M register enables the individual components to be separated by material type. At the end of their service life, the materials can therefore be separated and, depending on the available recycling options, directed to the appropriate recovery routes.



Impressive magnetic technology

A further advantage of the system is that the magnet technology and U support rails used to secure the activation coils in place prevent the panels from sagging, even with larger panel formats.





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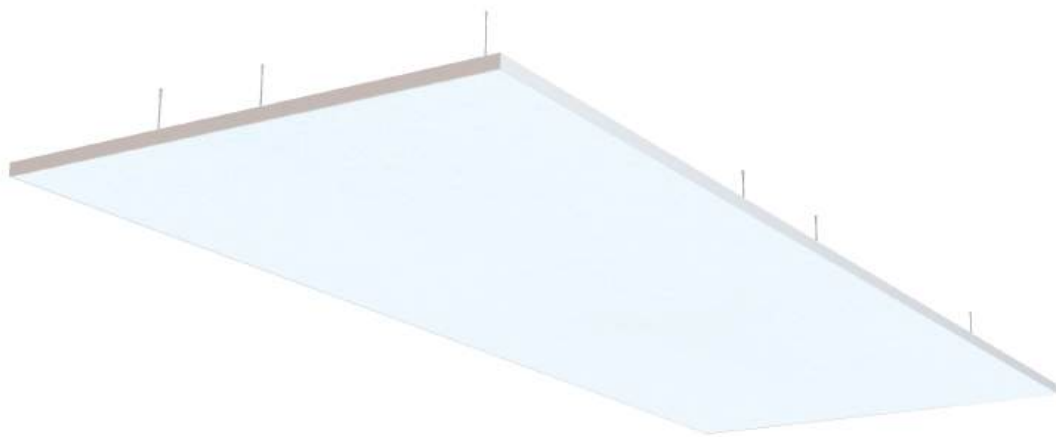
VARICOOL TKM-S textile ceiling sail*

This textile ceiling sail is an innovative solution for modern architecture

The VARICOOL TKM-S radiant textile ceiling sail is a water-based climate ceiling system. In combination with the CAURUS Hybrid system, it combines very high heating and cooling capacity with supply air distribution and advanced sound absorption values.

In combination with CAURUS, the building mass is additionally integrated into the overall thermal concept based on the thermo-active building system principle. The building mass can be used as an additional thermal storage mass.

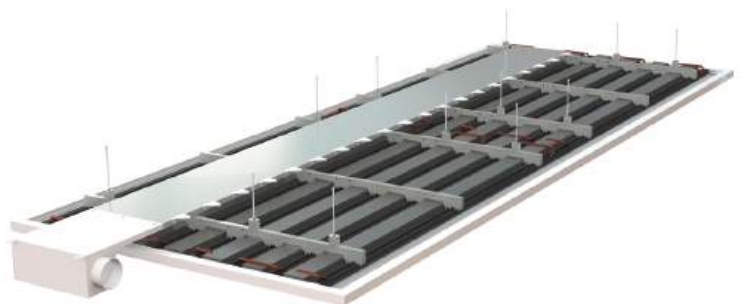
VARICOOL TKM can also be designed as a closed ceiling.



Room air distribution with the CAURUS hybrid system

With supply air volumes of up to 70 m³/h per linear metre, the supply air is introduced horizontally into the room above the textile sail. High-performance induction nozzles support the entrainment of room air on the opposite side of the sail and the thermal exchange with the concrete ceiling.

Heat stored in the building mass can be removed at a later time. Depending on the operating conditions and system concept, free cooling can also be used for this purpose. The air distribution supports even mixing of the room air and a balanced temperature profile.



*Currently only available in Switzerland

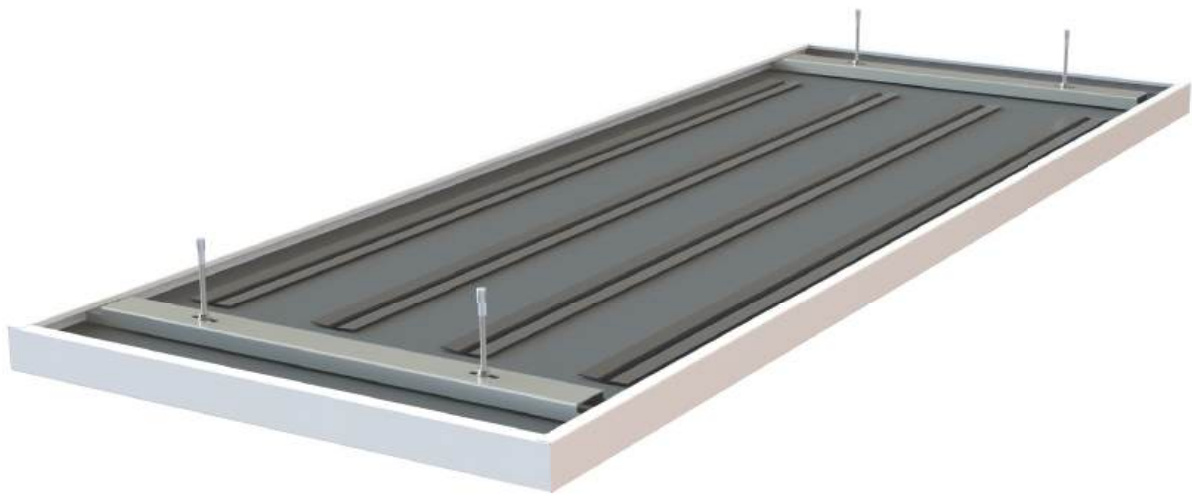


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AKUSTIKTHERM Climate ceiling sail

For thermally active building systems (TABS)

AKUSTIKTHERM is an acoustically effective and thermally conductive ceiling sail system for buildings with thermo-active building systems (TABS). The acoustic sail transfers thermal energy from the activated concrete surface into the room via an exchange system with a special coating, while also providing additional sound-absorbing surfaces.



Whether in open-plan offices, event spaces or restaurants, AKUSTIKTHERM combines the thermal use of the activated concrete ceiling with targeted improvement of room acoustics.

Energy transfer

Installing AKUSTIKTHERM sails enables the thermal capacity of the activated concrete ceiling to be transferred into the room. At the same time, the sails support sound absorption in the room.

With a ceiling occupancy rate of 40 to 60 %, AKUSTIKTHERM transfers 90 to 94 % of the cooling capacity of the activated concrete ceiling into the room.



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A11-C Climate ceiling

Discreet yet striking climate ceiling

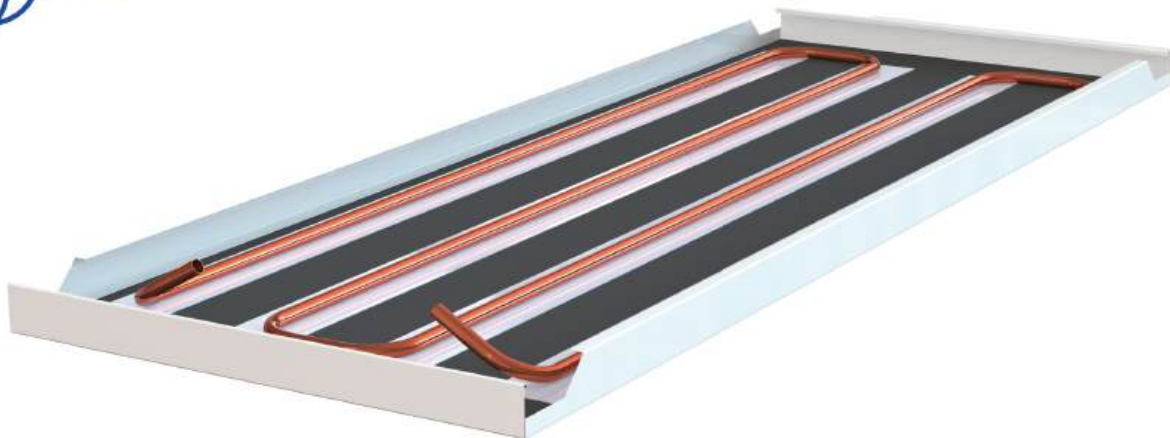
The A11-C radiant heating and cooling ceiling is suitable for rooms with high heat loads and enables draught-free room temperature control via the ceiling surface. The climate ceiling system also contributes to sound absorption in the room.

With the A11 activation, copper pipe and aluminium heat-conducting rails are joined using laser welding technology. The registers are permanently bonded to the metal panels with a special adhesive under high pressure. This enables good heat transfer between the activation and the ceiling panel.

The bonding technology also allows aluminium panels to be activated. Depending on the design, higher thermal capacities can therefore be achieved.

For areas with higher acoustic requirements, additional insulation strips can be inserted. Full-surface insulation can also be provided. The respective design is configured according to the thermal and acoustic requirements of the project.

A11-C can be combined with different installation variants and detailing solutions from metal ceiling construction. These include linear grid concepts as well as hook-on and clip-in systems. This allows the system to be adapted to different room geometries, ceiling concepts and architectural requirements.





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SPECTRA M-C Climate ceiling

A unique climate ceiling system with magnetic force

The SPECTRA M-C radiant heating and cooling ceiling is a water-based climate ceiling system with high thermal capacity and advanced acoustic effectiveness. The magnetic connection between the activation register and the ceiling panel enables the two components to be prefabricated and delivered separately. The registers and ceiling panels are assembled on the construction site. This allows installation processes to be coordinated flexibly.

The SPECTRA M register is also suitable for retrofitting existing metal ceilings that are to be thermally activated later. The registers can be fixed and hydraulically connected independently of the ceiling panels. This means that the heating and cooling technology can be installed and commissioned before the ceiling surface is completed. With appropriate design, the registers can also be used in advance for temporary construction heating.

For areas with higher acoustic requirements, additional insulation strips can be inserted. Full-surface insulation can also be provided. The respective design is configured according to the thermal and acoustic requirements of the project.

The design of the SPECTRA M register enables the individual components to be separated by material type. At the end of their service life, the materials can therefore be separated and, depending on the available recycling options, directed to the appropriate recovery routes.



Impressive magnetic technology

A further advantage of the system is that the magnetic technology and U support rails used to secure the activation coils in place prevent the panels from sagging, even with larger panel formats.



- ✓ **Offices and commercial buildings**
- ✓ **Educational institutions**
- ✓ **Medical facilities**
- ✓ **Museums / theatres / cinemas**

ECO M-C Climate ceiling

A flexible climate ceiling system with magnetic force

ECO M-C is a water-based radiant heating and cooling ceiling system. The heating and cooling register is connected to the ceiling cladding by means of a magnetic connection. The system operates predominantly on the radiant principle and enables draught-free room temperature control.

The ceiling system offers various application and design options. It is suitable for office and administration buildings, retail areas, training and conference rooms, as well as treatment rooms in hospitals, among other applications.



Impressive magnetic technology

The magnetic connection enables the heating and cooling registers to be installed and removed without damaging the ceiling panel. Previously inactive ceiling panels can also be thermally activated at a later stage.



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VARICOOL TKM-C textile ceiling*

This textile ceiling is an innovative solution for modern architecture

The jointless VARICOOL TKM-C radiant heating and cooling ceiling is suitable for projects where a closed ceiling surface is to be combined with thermal activation. Visually, it corresponds to a conventional drywall ceiling. Full-surface ceiling activation and individual ceiling designs are possible.

For higher acoustic requirements, insulation strips can be arranged between the heating and cooling registers. The heating and cooling registers are mounted directly on the structural ceiling. The textile is fixed to the walls using special profiles. Components such as luminaires or sprinklers can be integrated into the closed ceiling.

VARICOOL TKM can also be implemented as a ceiling sail.



*Currently only available in Switzerland



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- ✓ Educational institutions
- ✓ Medical facilities
- ✓ Museums / theatres / cinemas

VARICOOL UNI Climate ceiling

Thermally active plasterboard ceiling

The jointless VARICOOL UNI radiant heating and cooling ceiling is suitable for projects where thermal comfort is to be combined with a seamless ceiling appearance. Visually, it corresponds to a conventional drywall ceiling. Full-surface ceiling activation, integrated components and individual ceiling designs with 3D elements are possible. VARICOOL UNI can also be designed as a ceiling sail.

For higher acoustic requirements, perforated plasterboard panels with acoustic fleece applied to the rear can be used. Depending on the requirements, an insulation layer can be provided for additional sound absorption.

The heating and cooling registers are adapted to the standard substructure and replace parts of it. The system is suitable for use with gypsum, expanded-glass granulate and aluminium honeycomb panels.

Optimum heat transfer

The panelling is bolted directly to the activation profiles. This ensures very good heat transfer and consistent quality.





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- ✓ **Museums / theatres / cinemas**

VARICOOL AP Climate ceiling

Thermally active plasterboard ceiling

The jointless VARICOOL AP radiant heating and cooling ceiling is suitable for projects where thermal comfort is to be combined with a seamless ceiling appearance. Visually, it corresponds to a conventional drywall ceiling. Full-surface ceiling activation, flexible arrangement of the activation profiles, integrated components and individual ceiling designs with 3D elements are possible. VARICOOL AP can also be designed as a ceiling sail.

For higher acoustic requirements, perforated plasterboard panels with acoustic fleece applied to the rear can be used. Depending on the requirements, an insulation layer can be provided for additional sound absorption.

The activation profiles for jointless radiant heating and cooling ceilings are adapted to the standard substructure and replace parts of it. The system is suitable for use with gypsum, expanded-glass granulate and aluminium honeycomb panels.



Optimum heat transfer

The panelling is bolted directly to the activation profiles. This ensures very good heat transfer and consistent quality.





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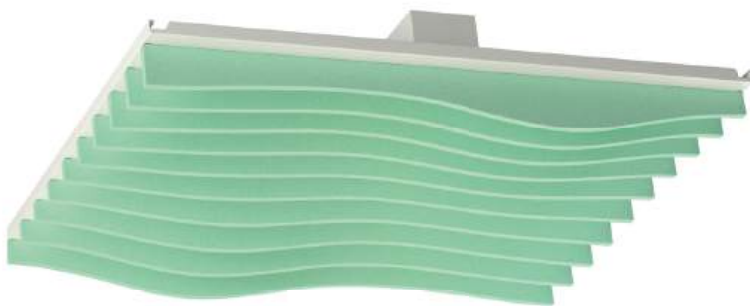
ARCHISONIC® Acoustic baffle

Unique room ambience with stylish design

ARCHISONIC® can be combined with the A11-S and A11-C climate ceiling systems as well as with the ALBATROS high performance module. This allows thermal and acoustic functions to be combined with different architectural design options.

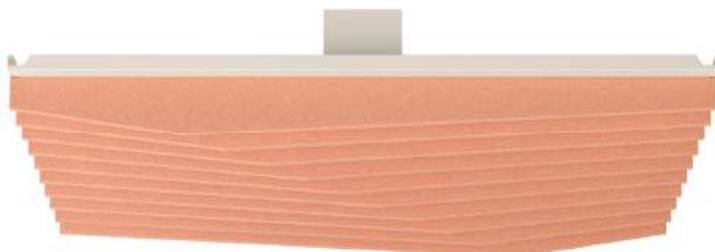
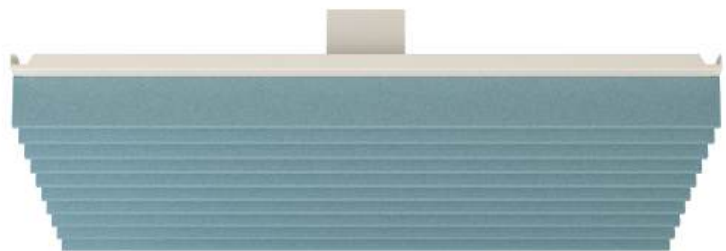
The ARCHISONIC® acoustic ceiling baffles from Impact Acoustic® support sound absorption in the room. The PET felt panels are particularly effective in the higher frequency range. The A11 metal climate ceiling system complements the acoustic effect in the lower frequency range.

The combined solution can be designed as the A11-C closed ceiling system, as the A11-S ceiling sail or with the ALBATROS high performance module. ARCHISONIC® acoustic ceiling baffles are available in various colours and in the Wave, Straight and Edge shapes. On-site installation is carried out on the underside of the metal ceiling by using magnets.



ARCHISONIC® Wave

ARCHISONIC® Straight



ARCHISONIC® Edge



- ✓ Offices and commercial buildings
- ✓ Museums / theatres / cinemas
- ✓ Restaurants and cafeterias

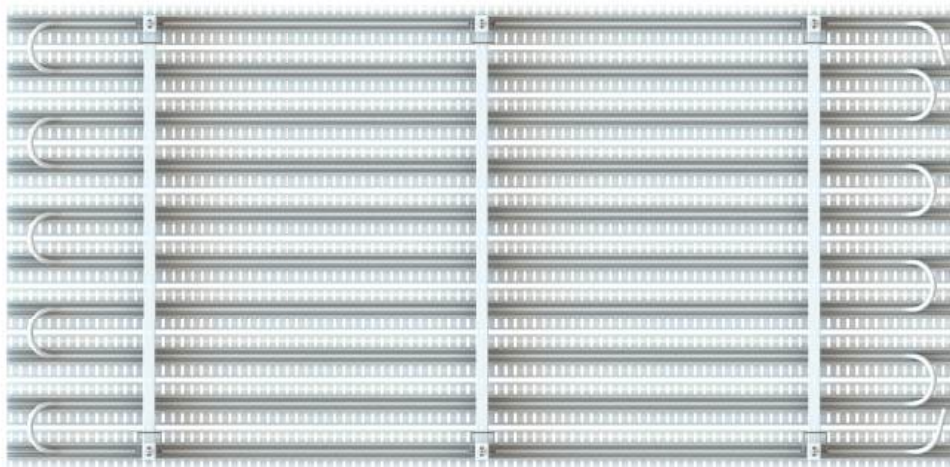
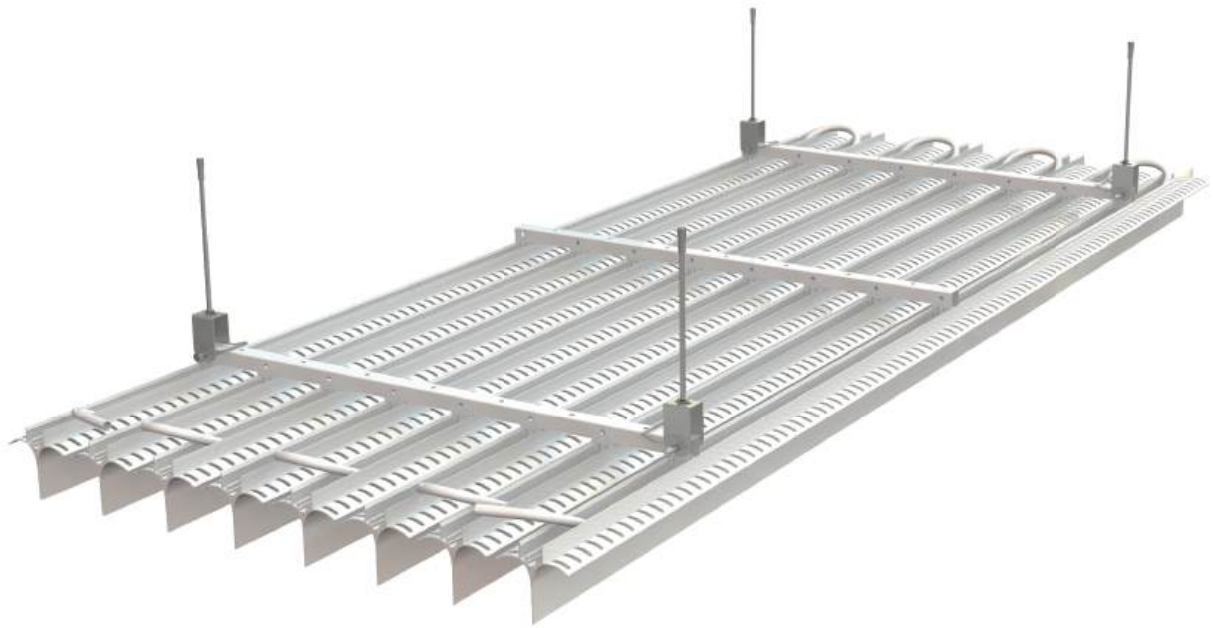
ALBATROS High performance module

High performance module with very high cooling capacity

The ALBATROS high performance module is a climate ceiling system for rooms with high thermal loads and can be used for both cooling and heating. The slotted wing-shaped aluminium fins enable very high thermal capacity.

In combination with an optional sound absorber, the system can also contribute to sound absorption in the room.

ALBATROS offers high area-specific, predominantly convective cooling capacity and can be combined with different air distribution systems. The modular ceiling system can also be used for heating.





- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Railway stations and airports
- ✓ Museums / theatres / cinemas

OPTI Y High performance module

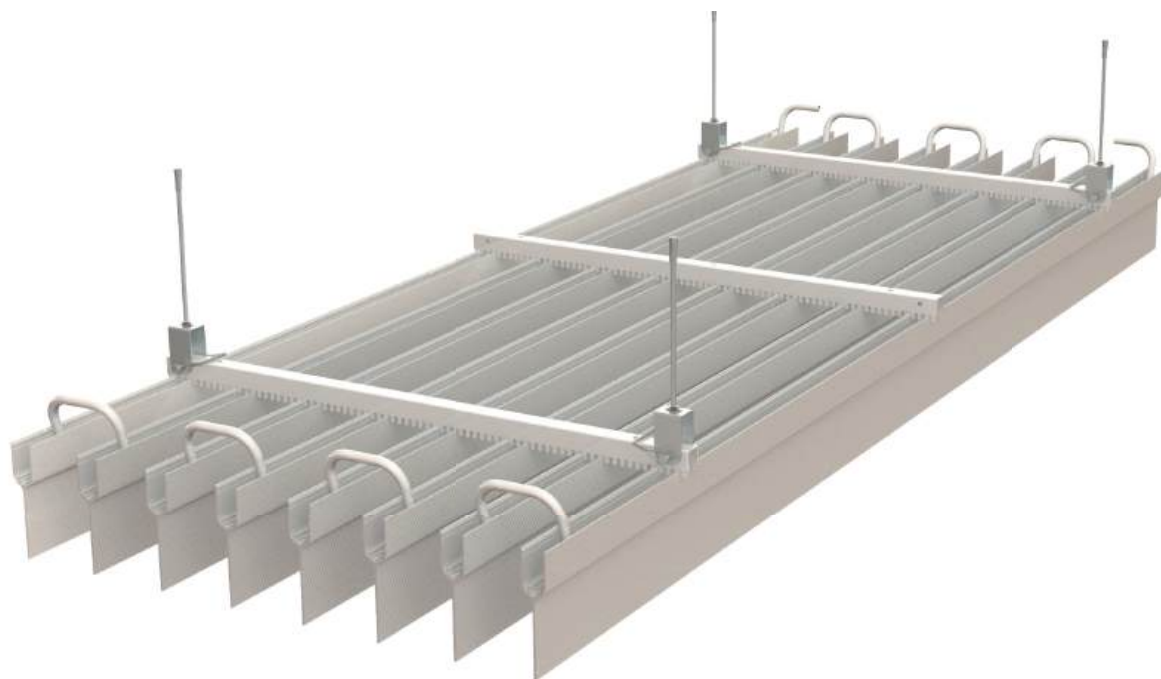
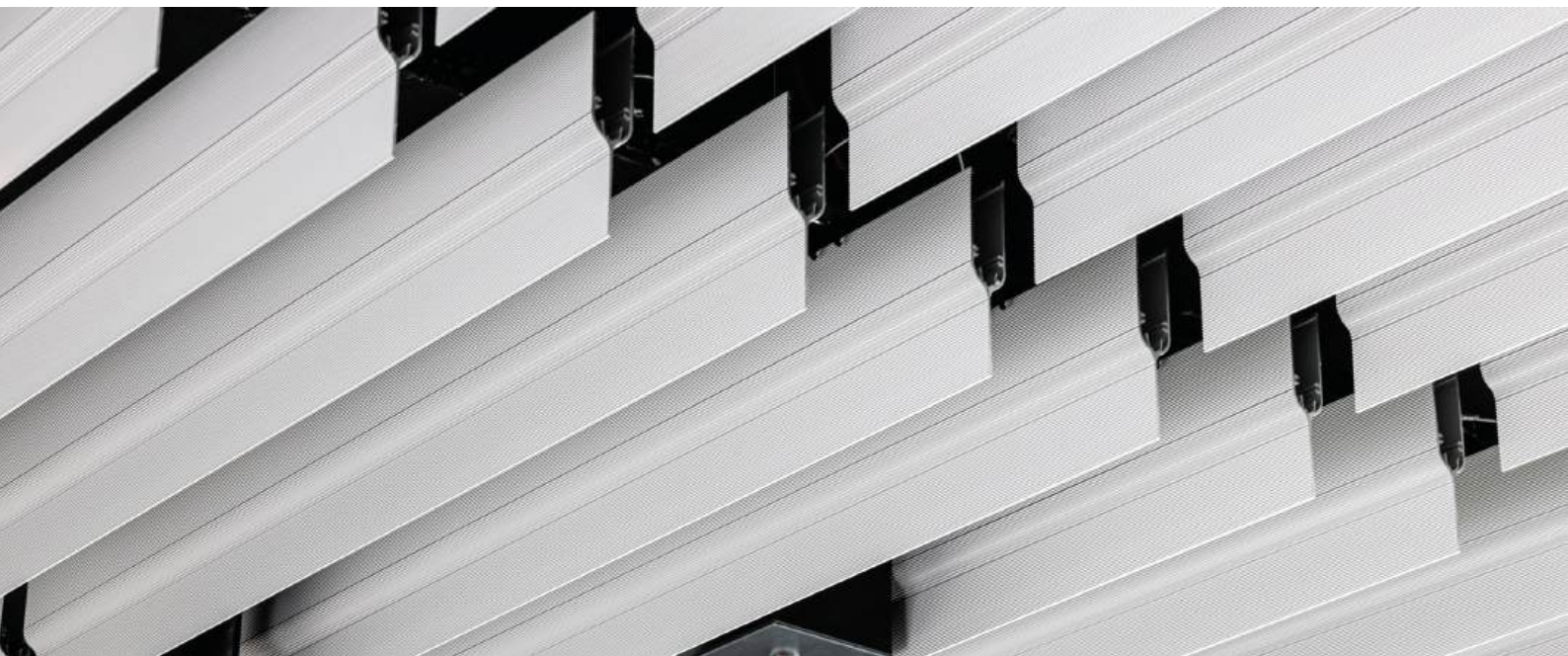
High performance module with very high thermal capacity

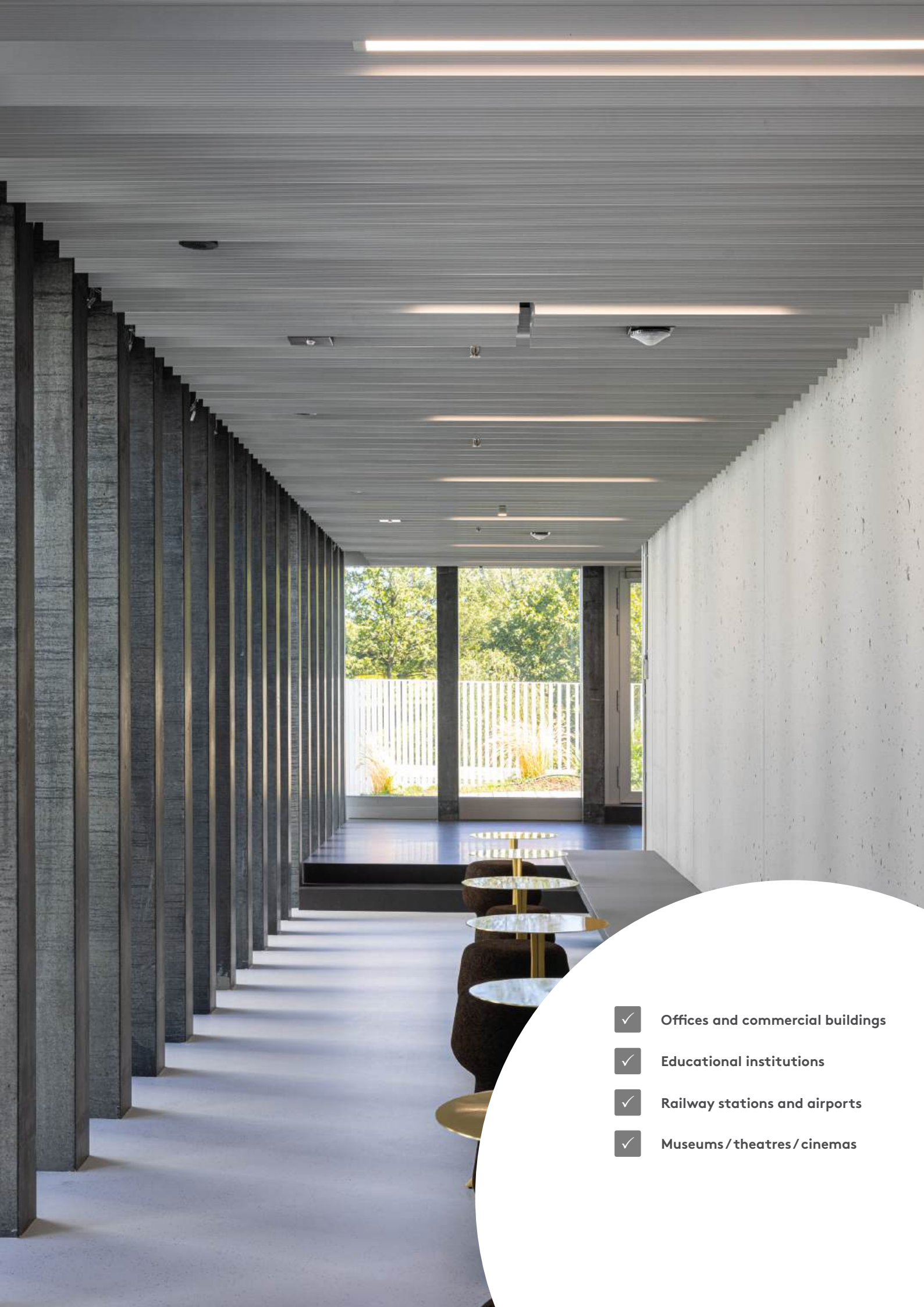
OPTI Y is an open-design high performance module for cooling and heating rooms. Heat transfer takes place predominantly through natural convection and radiation.

The fin elements with a finely structured surface can be installed as individually suspended ceiling modules, as a continuous fin ceiling or concealed above grid ceilings.

The system offers high area-specific thermal capacity and a large free ceiling cross-section. Components such as sprinklers, smoke detectors, air outlets or lighting can be integrated between the fins.

OPTI Y can be combined with different air distribution systems.





- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Railway stations and airports
- ✓ Museums / theatres / cinemas

SOFTLINE High performance module

Aesthetic ceiling with high cooling capacity

SOFTLINE is a high performance module for heating and cooling rooms and offers different installation and design options. The slender fin design is suitable for showrooms, offices and corridors, among other applications. Lighting can be integrated between the aluminium fins or below the profiles as pendant luminaires.

With optional acoustic inlays, the system can also contribute to sound absorption in the room.

The SOFTLINE high performance module is available in the Base, Roof and Curve versions. The different shapes allow adaptation to various architectural and design requirements.



SOFTLINE Base



SOFTLINE Roof



SOFTLINE Curve



- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Railway stations and airports
- ✓ Museums / theatres / cinemas

SOFTLINE WOOD

High performance module

Climate ceiling system with real wood

The SOFTLINE WOOD high performance module combines fins with real wood surfaces and high-performance heat-conducting profiles, enabling heating and cooling via the ceiling.

Room air flows around the heat-conducting profiles and supports heat transfer during heating and cooling. In combination with optional absorbers, the system can also contribute to sound absorption in the room.

The fins with real wood surfaces define the natural wood appearance of the ceiling system. Different wood types and perforation variants enable different design solutions for the interior.



Wide selection of real wood slats for individual room concepts

The real wood slats are available in various wood types, colours, and finishes, offering maximum design freedom and natural aesthetics. The modules are easy to install, can be combined with built-in elements, and can be extended with the CAURUS or FAVO hybrid system.



- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Railway stations and airports
- ✓ Museums / theatres / cinemas

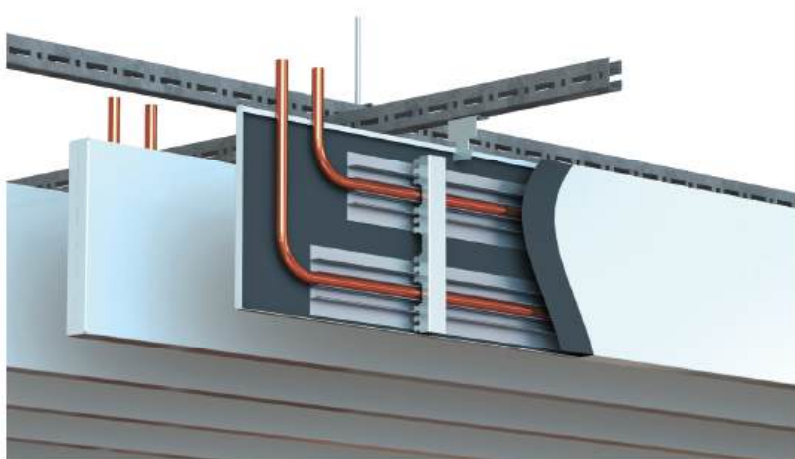
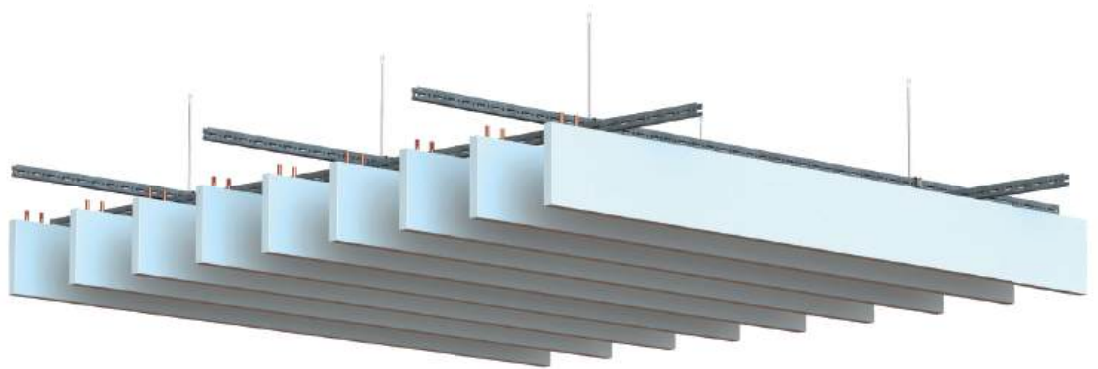
METAL LINE Climate baffle

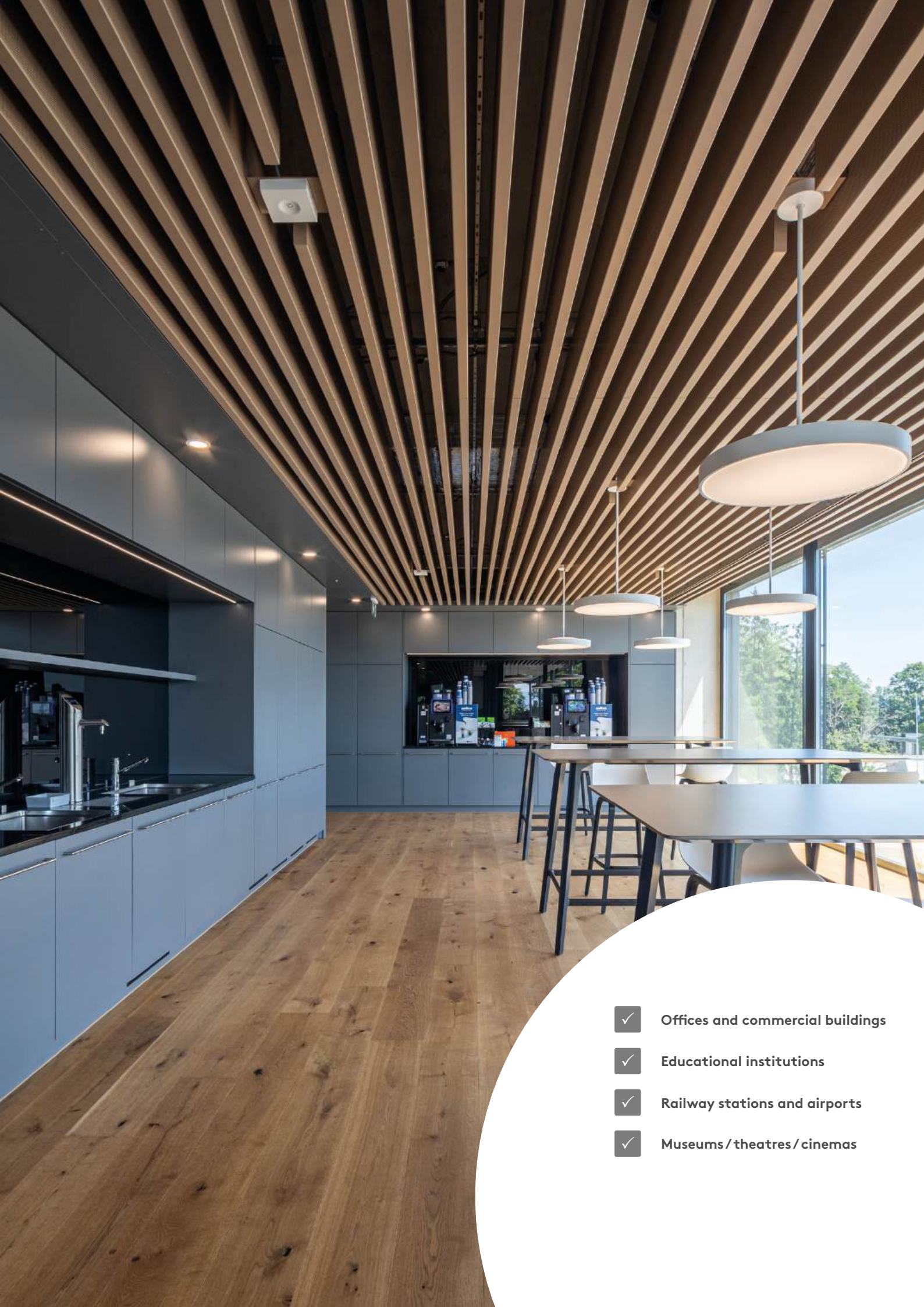
An efficient and flexible climate ceiling system

METAL LINE radiant heating and cooling baffles combine thermal activation with acoustic effectiveness. The vertical arrangement of the metal baffles provides a comparatively large thermally and acoustically effective surface area.

The system is also suitable for retrofitting existing buildings. Thanks to simple installation, the radiant heating and cooling baffles can be integrated into different room situations and combined with various design requirements.

An acoustic fleece is integrated into the baffle for sound absorption. For higher acoustic requirements, an additional insulation insert can be provided.

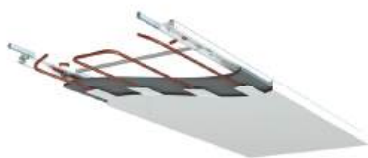




- ✓ Offices and commercial buildings
- ✓ Educational institutions
- ✓ Railway stations and airports
- ✓ Museums / theatres / cinemas

U4X

Hybrid system with building mass connection



- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Building mass can be used as an additional thermal storage mass
- Free cooling can be used depending on location, operating conditions and system concept
- Components can be integrated

Dimensions:

Installation height: 75 mm

- Panel length: 800–3000 mm
- Panel width: 400–1200 mm
- Panel height: 50–100 mm

Custom dimensions on request

Water capacity: *

Mass storage capacity:
up to 25 W/m² panel area

Cooling: up to 87 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 103 W/m² (ΔT: 15 K)



FAVO

Hybrid system with building mass connection



- In combination with A11-S, SPECTRA M-S, SOFTLINE WOOD
- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Building mass can be used as an additional thermal storage mass
- Sound power level $L_w < 30$ dB(A)
- Silent and draught-free fresh air supply
- Connection to conventional ventilation ducts

Dimensions:

Installation height: min. 205 mm

- Panel length: 800–3000 mm
- Panel width: 400–1200 mm
- Panel height: 30–50 mm

Custom dimensions on request

Water capacity: *

Mass storage capacity:
up to 20 W/m² panel area

A11-S, SPECTRA M-S
Cooling: up to 120 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 117 W/m² (ΔT: 15 K)

With flowing supply air, there will be a 20 to 40 % higher heating capacity.



CAURUS

Hybrid system with building mass connection



- In combination with A11-S, SPECTRA M-S, VARICOOL TKM-S, SOFTLINE WOOD
- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Building mass can be used as an additional thermal storage mass
- Integrated cross-talk sound attenuation (option)
- Low construction height
- Sound power level $L_w < 30$ dB(A)
- Silent and draught-free fresh air supply

Dimensions:

Installation height: 80–200 mm

- Panel length: 800–3000 mm
- Panel width: 400–1200 mm
- Panel height: 30–50 mm

Custom dimensions on request

Water capacity: *

Mass storage capacity:
up to 20 W/m² panel area

A11-S, SPECTRA M-S
Cooling: up to 137 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 119 W/m² (ΔT: 15 K)

With flowing supply air, there will be a 20 to 40 % higher heating capacity.



* Cooling capacity based on DIN EN 14240/heating capacity based on DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

AQUILO

Hybrid system with building mass connection



- In combination with A11-S, A11-C, SPECTRA M-S, SPECTRA M-C
- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Building mass can be used as an additional thermal storage mass (A11-C, SPECTRA M-C)
- Sound power level $L_w < 25 \text{ dB(A)}$
- Silent and draught-free fresh air supply through perforated ceiling panels

Dimensions:

Installation height: 150 – 220 mm

- Panel length: 800 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 50 mm

Custom dimensions on request

Water capacity: *

Mass storage capacity:

Sail: up to 10 W/m^2 panel area

Closed ceiling: up to 5 W/m^2 panel area

A11-S, SPECTRA M-S

Cooling: up to 122 W/m^2 ($\Delta T: 8 \text{ K}$)
at 85 % Aar

Heating: up to 138 W/m^2 ($\Delta T: 15 \text{ K}$)

A11-C, SPECTRA M-C

Cooling: up to 114 W/m^2 ($\Delta T: 8 \text{ K}$)
at 75 % Aar

Heating: up to 113 W/m^2 ($\Delta T: 15 \text{ K}$)



VENTAMIC

Hybrid system with building mass connection



- In combination with A11-C, SPECTRA M-C
- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Building mass can be used as an additional thermal storage mass
- Sound power level $L_w < 35 \text{ dB(A)}$
- Silent and draught-free fresh air supply

Dimensions:

Installation height: min. 250 mm

- Panel length: 600 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 40 mm

Custom dimensions on request

Water capacity: *

Mass storage capacity:

up to 10 W/m^2 panel area

A11-C, SPECTRA M-C

Cooling: up to 119 W/m^2 ($\Delta T: 8 \text{ K}$)
at 75 % Aar

Heating: up to 104 W/m^2 ($\Delta T: 15 \text{ K}$)



* Cooling capacity based on DIN EN 14240/heating capacity based on DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

Subject to technical changes.

A11-S

Climate metal ceiling sail



- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Easy to install
- Low system weight
- Variable register design
- Components can be integrated
- Can be combined with ARCHISONIC®, AQUILO, CAURUS and FAVO

Dimensions:

Installation height: min. 80 mm

- Panel length: 800 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 50 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 105 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 117 W/m² (ΔT: 15 K)

With Convector Wings:

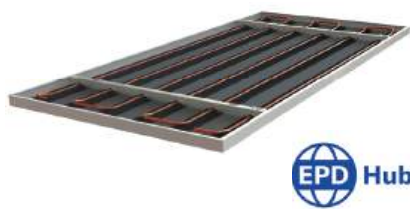
Cooling: up to 122 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 117 W/m² (ΔT: 15 K)



SPECTRA M-S

Climate metal ceiling sail with magnet technology



- Very high heating & cooling capacity
- Superior sound absorption values (class A)
- Ceiling panels and activation registers connected using magnetic technology
- Tool-free installation and removal of the registers
- Product components can be separated by material type
- Components can be integrated
- Can be combined with AQUILO, CAURUS and FAVO

Dimensions:

Installation height: min. 80 mm

- Panel length: 800 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 40 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 103 W/m² (ΔT: 8 K)
at 85 % Aar

Heating: up to 119 W/m² (ΔT: 15 K)



VARICOOL TKM-S

Currently only available in Switzerland

Climate textile ceiling sail



- In combination with CAURUS
- Very high heating & cooling capacity
- Advanced sound absorption values (class B)
- Use of the building mass as an additional thermal storage mass
- Silent and draught-free fresh air supply
- Components can be integrated

Dimensions:

Installation height: 180 – 500 mm

- Textile length: 1040 mm – 50 m
- Textile width: 740 – 4940 mm
- System height: 137 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 91 W/m² (ΔT: 8 K)

Heating: up to 101 W/m² (ΔT: 15 K)



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

AKUSTIKTHERM

For thermally active building systems (TABS)



- Suitable for retrofitting in buildings with thermo-active building systems (TABS)
- Superior sound absorption values (class A)
- Very low influence on component activation during cooling and heating
- Low installation height
- Low maintenance requirements
- Product components can be separated by material type
- Components can be integrated

Dimensions:

Installation height: 60 – 500 mm

- Panel length: 800 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 50 mm

Custom dimensions on request

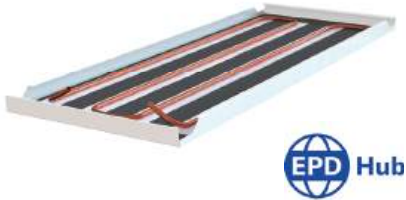
Energy transfer TABS

90 – 94 %



A11-C

Climate metal ceiling



- High heating & cooling capacity
- Advanced sound absorption values (class B)
- Can be combined with common metal ceiling systems
- Low system weight
- Suitable for rooms with high heat loads
- Components can be integrated
- Can be combined with VENTAMIC, AQUILO and ARCHISONIC®

Dimensions:

Installation height: min. 100 mm

- Panel length: 600 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 50 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 100 W/m² (ΔT: 8 K)
at 75 % Aar

Heating: up to 104 W/m² (ΔT: 15 K)



SPECTRA M-C

Climate metal ceiling with magnetic technology



- High heating & cooling capacity
- Advanced sound absorption values (class B)
- Ceiling panels and activation registers connected using magnetic technology
- Tool-free installation and removal of the registers
- Product components can be separated by material type
- Existing metal ceilings can be retrofitted with the SPECTRA M magnetic system
- Components can be integrated
- Can be combined with AQUILO and VENTAMIC

Dimensions:

Installation height: min. 100 mm

- Panel length: 600 – 3000 mm
- Panel width: 400 – 1200 mm
- Panel height: 30 – 40 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 90 W/m² (ΔT: 8 K)
at 75 % Aar

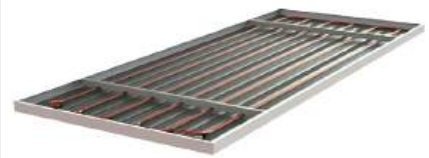
Heating: up to 98 W/m² (ΔT: 15 K)



ECO M-C

Currently not available in Switzerland

Climate metal ceiling with magnetic technology



- High heating & cooling capacity
- Advanced sound absorption values (class B)
- Ceiling panels and activation registers connected using magnetic technology
- Tool-free installation and removal of the registers
- Product components can be separated by material type
- Existing metal ceilings can be retrofitted with the ECO M magnetic system
- Components can be integrated

Dimensions:

Installation height: 200 mm

- Panel length: 500 – 2000 mm
- Panel width: 300 – 800 mm
- Panel height: 30 – 40 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 80 W/m² (ΔT: 8 K)
at 65 % Aar

Heating: up to 80 W/m² (ΔT: 15 K)



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

VARICOOL TKM-C

Currently only available in Switzerland

Climate textile ceiling



- High heating & cooling capacity
- Advanced sound absorption values (class B)
- Easy to install
- Components can be integrated

Dimensions:

Installation height: 200/400 mm

- Textile length: 1040 mm – 50 m
- Textile width: 740 – 4940 mm
- System height: 137 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 78 W/m² (ΔT : 8 K)

Heating: up to 89 W/m² (ΔT : 15 K)



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

Subject to technical changes.

VARICOOL UNI

Jointless climate ceiling



- High heating & cooling capacity
- Acoustically effective (class C)
- Can be designed as a closed ceiling or ceiling sail
- Easy installation of the registers
- Registers replace parts of the substructure
- Full-surface ceiling activation possible
- Components can be integrated

Register dimensions:

Installation height: min. 120 mm

- Register length: 500 – 2500 mm
- Register width: 180 – 1000 mm
- Register height: 27 mm

Custom dimensions on request

Water capacity: *

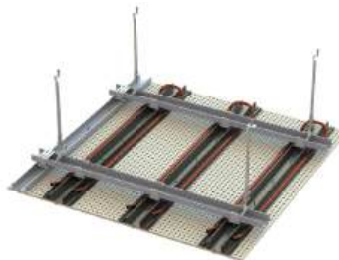
Cooling: up to 77 W/m² (ΔT: 8 K)
at 65 % Aar

Heating: up to 103 W/m² (ΔT: 15 K)



VARICOOL AP

Jointless climate ceiling



- High heating & cooling capacity
- Acoustically effective (class C)
- Can be designed as a closed ceiling or ceiling sail
- Easy installation of the activation profiles
- Activation profiles replace parts of the substructure
- Flexible arrangement of the activation profiles possible
- Components can be integrated

Profile dimensions:

Installation height: min. 120 mm

- Profile length: 1000 – 3000 mm
- Profile width: 135 mm
- Profile height: 27 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 82 W/m² (ΔT: 8 K) alu
at 85 % Aar

Heating: up to 118 W/m² (ΔT: 15 K) alu

Cooling: up to 67 W/m² (ΔT: 8 K) plaster
at 85 % Aar

Heating: up to 104 W/m² (ΔT: 15 K) plaster



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

Acoustic baffle



- In combination with A11-S, A11-C, ALBATROS
- High to very high heating & cooling capacity
- Superior sound absorption values (class A)
- Acoustic material made of 100 % PET (min. 60 % recycled)
- Simple hook-in installation
- Shapes: Edge, Straight and Wave
- 45 colours available
- Components can be integrated

Baffle dimensions:

Installation height: min. 240 mm

- Baffle length: 400 – 1800 mm
- Baffle width: 24 mm (88 PET bottles/m²)
- Baffle height: 150 mm

Custom dimensions on request

Water capacity:*

Cooling: up to 70 W/m² (ΔT : 8 K) A11-S

Heating: up to 90 W/m² (ΔT : 15 K) A11-S

Cooling: up to 60 W/m² (ΔT : 8 K) A11-C

Heating: up to 82 W/m² (ΔT : 15 K) A11-C

Cooling: up to 190 W/m² (ΔT : 8 K) ALBATROS

Heating: up to 233 W/m² (ΔT : 15 K) ALBATROS



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis. Aar = Active area ratio.

Subject to technical changes.

ALBATROS

High performance module



- Very high heating & cooling capacity
- With optional acoustic inlay: superior sound absorption values (class A)
- Combination of high thermal capacity and individual ceiling design
- Easy to install
- Anodised profiles available
- Components can be integrated
- Can be combined with ARCHISONIC®

Dimensions:

Installation height: min. 220 mm

- Module length: 1000 – 2500 mm
- Module width: 290 – 990 mm
- Module height: 160 mm
- Pipe rows: 3 – 10
- Pipe spacing: 100 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 241 W/m² (ΔT: 8 K)

Heating: up to 303 W/m² (ΔT: 15 K)



OPTI Y

High performance module



- Very high heating & cooling capacity
- With optional acoustic inlay: superior sound absorption values (class A)
- Can be combined with different ventilation systems
- Easy to install, optionally with fold-down modules
- Visible or concealed installation possible depending on design requirements
- Anodised profiles available
- Components can be integrated

Dimensions:

Installation height: min. 250 mm

- Module length: 1000 – 2500 mm
- Module width: 230 – 1080 mm
- Module height: 216 mm
- Pipe rows: 3 – 10
- Pipe spacing: 100/150 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 198 W/m² (ΔT: 8 K)

Heating: up to 230 W/m² (ΔT: 15 K)



SOFTLINE

High performance module



- Very high heating & cooling capacity
- With optional acoustic inlay: advanced sound absorption values (class B)
- Easy to install, optionally with fold-down modules
- Shapes: Curve, Roof and Base, other versions on request
- Anodised profiles available
- Components can be integrated

Dimensions:

Installation height: min. 180 mm

- Module length: 1000 – 2500 mm
- Module width: 380 – 1290 mm
- Module height: 95 mm
- Pipe rows: 3 – 10
- Pipe spacing: 130 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 141 W/m² (ΔT: 8 K)

Heating: up to 239 W/m² (ΔT: 15 K)



* Cooling capacity according to DIN EN 14240 / heating capacity according to DIN EN 14037 : 2016
Higher capacities possible on a project-specific basis

SOFTLINE WOOD

High performance module



- High heating and cooling capacity
- With optional absorbers: advanced sound absorption values (class B)
- Fins with real wood surfaces in different wood types and perforation variants
- Easy to install
- Components can be integrated
- Can be combined with CAURUS and FAVO

Dimensions with frame:

Installation height: min. 180 mm

- Module length: 1050 – 2550 mm
- Module width: 650 – 1370 mm
- Module height: 60 mm
- Pipe rows: 3 – 6
- Pipe spacing: 240 mm

Custom dimensions on request

Water capacity: *

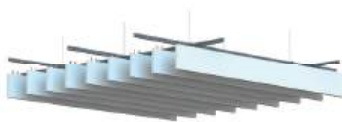
Cooling: up to 102 W/m² (ΔT : 8 K)

Heating: up to 86 W/m² (ΔT : 15 K)



METAL LINE

Climate baffle



- Very high heating & cooling capacity
- Acoustically effective (class C)
- Easy to install
- Suitable for retroactive installation
- Available in various colours and surfaces, including wood-look finishes
- Components can be integrated

Dimensions:

Installation height: min. 260 mm

- Baffle length: 500 – 2500 mm
- Baffle width: 30/40 mm
- Baffle height: 200 mm

Custom dimensions on request

Water capacity: *

Cooling: up to 24 W/lm (ΔT : 8 K)
at 90 % Aar

Heating: up to 27 W/lm (ΔT : 15 K)



* Cooling capacity according to DIN EN 14240/heating capacity according to DIN EN 14037 :
Higher capacities possible on a project-specific basis. Aar = Active area ratio.
Subject to technical changes.



Room management system

WISE / SuperWISE

Did you know that on average we spend 87 % of our time indoors? And that we inhale about 15 kg of air per day? To ensure a pleasant indoor climate, multiple factors such as air quality, thermal comfort, air humidity, air speed, sound, and lighting must be taken into consideration. An effective room management system can significantly impact these factors.

This is how WISE works

WISE acts as the brain for the indoor climate, gathering data from the property and optimising the indoor climate accordingly. The data can include everything from temperature and air quality to occupancy. We call this demand-controlled indoor climate.

WISE is a scalable system, which means that Swegon can offer solutions for all types of properties, large and small alike. Swegon helps to create unique climate solutions for our customers' varying needs. Generally speaking, WISE is best suited to properties where the occupancy rate varies over time, such as schools and offices. When your occupancy rate varies, for example, this means that you do not need to ventilate 24 hours a day. It is sufficient to ventilate when people are present – demand-controlled, quite simply!

Wireless connectivity

WISE communicates wirelessly, which has many advantages:

- The system can be started up and commissioned quickly! The system's components are digitally matched with the role they assume in the system.
- Ease of installation – The installation time is reduced and the risk of misconnections is minimised.
- Flexible configuration – If a wall is taken down in the building, the components can be assigned new roles without having to re-run a single cable.

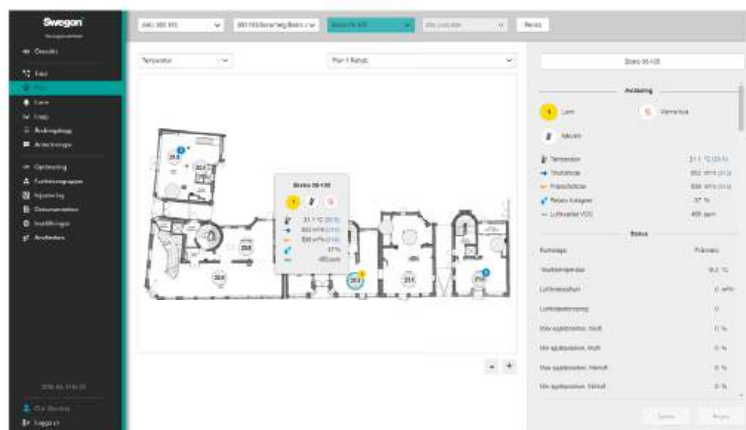
Components in WISE

WISE incorporates a range of different products that combine to create the smart system.

System products – These act as small brains, where all the intelligence and data are gathered.

Climate products – The system's climate products handle air, heating and cooling for a perfect indoor climate. These products are situated in the room, e.g. air diffusers and comfort modules.

System accessories – Various types of transducers and sensors that detect e.g. temperature, air quality and occupancy.



SuperWISE

Our SuperWISE interface checks how WISE is performing during commissioning and supervision. It is simple to operate and easy to identify any anomalies from what is expected. Using SuperWISE, the process is not only easier and more efficient, but it also enables you to rest assured that everything is working as it should.

Using WISE, it is basically possible to control all the elements in a climate system, such as air handling units and climate products. In addition, WISE can also control water and air optimisation. Furthermore, it is possible to add digital services in which products' and properties' data can be visualised and managed.



Play Video





A dependable partner

Decades of experience

Barcol-Air is your professional partner. We have gained decades of experience in the construction and installation of climate ceiling systems in many countries around the world.

Help and support

We support our customers in all phases of their projects – from the initial idea right through to commissioning the ceiling.

Expertise

Our employees have in-depth expertise in the field of climate ceiling systems.

We strive to maintain our lead in the industry and consider the training and further development of our employees to be essential in ensuring they remain at the cutting edge of technology.

That is why we always have the resources and expertise required to install and maintain reliable systems for you.

Reference projects



Beyond Gravity Circle, Zurich Airport



Porsche Museum, Stuttgart



Mercato, Duisburg



SXB Südkreuz, Berlin



Vector Informatik, Stuttgart



Mekkah Clock Tower, Mecca

Visit our website: barcolair.com

Feel good **inside**

