

Ceiling Fan Coil System INDULVENT ec

New Construction Customer Centre Savings Bank Bayreuth



Photo © Gerhard Hagen

Perfectly integrated solutions – even when space conditions are difficult. The INDULVENT ec was professionally installed in the ceiling thanks to close collaboration between all parties involved in the project.

With its newly constructed customer centre on Luitpoldplatz in the heart of the city, Sparkasse Bayreuth demonstrates its commitment to sustainable solutions. The new building blends perfectly into the cityscape, with its gross floor area of 6070 square metres and 22,690 cubic metres of interior space, dressed in an elegant, yet understated, sandstone exterior. The ventilated sandstone façade is thermally insulated with mineral wool, as an energy efficiency measure.

Indeed, everything about the new Sparkasse building has been designed with sustainability in mind and has been engineered and constructed according to the latest energy standards.

To be able to deliver prompt and personal customer service, together with expert consultations, is very important to the company. Around 200 members of staff will look after more than 60,000 customers. The aim was to create a modern and comfortable working environment that offered an additional "feel good" factor. Powerful and reliable air conditioning equipment that could be seamlessly integrated into the overall architectural concept was therefore essential.

The technological challenge

Integrating the ceiling fan coil units into the "Danoline Contur" (with mounting rails concealed by ceiling panels) and "Belgravia" grid ceiling systems resulted in a visually appealing solution that also met the client's hygiene requirements. A front panel, that can be opened without tools, was integrated flush with the ceiling system and with uniform gaps.

This necessitated modifications to front panel dimensions, edges and fastenings to the unit box; a three-dimensional adjustment of the opening mechanism with regard to lift and opening angle; specific alignment of each unit with the air and water connections to the mounting rails; and the determination of a visually identical opening direction of the front panels. In some cases, the air connections on the units had to be relocated due to space restrictions. Trade partners, architects, design engineers, installers and Kiefer worked closely together to achieve a professional outcome.

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Photo © Gerhard Hagen

The new customer centre clearly demonstrates that exacting technical requirements can be met without detracting from an attractive interior design scheme.

Function

A decentralised fan coil system offers high flexibility, as the room where it is installed can be used for different purposes. INDULVENT ec combines the high cooling capacity of a fan coil system with the comfortable ambient air flow of a highly inductive ceiling air diffuser.

INDULVENT ec is suitable for almost all applications where high cooling loads need to be transferred and a comfortable indoor environment is a priority. The reference projects shown range from typical offices and conference rooms, to halls, hospitals, workshops and laboratories, and on to control centres and control rooms. INDULVENT ec is equally suitable for both new and renovated buildings.

System Advantages

- Ambient air distribution with cooling capacity up to 2600 W
- Low sound power level
- Only electrical, cooling water and condensate connection required
- Energy-saving EC technology
- Stepless power regulation
- Integrated condensate pump

Technical Data

Object:	New Construction Customer Centre Savings Bank Bayreuth, Luitpoldplatz
Proprietor:	Savings Bank Bayreuth
Planner:	BAURCONSULT, Haßfurt
Architect:	BAURCONSULT Architekten + Ingenieure, Haßfurt
Product:	Ceiling Fan Coil System INDULVENT ec
Special feature:	Combination Ceiling Fan Coil System INDULVENT ec with Induction Cooling System INDULCLIP-DIK

INDULVENT ec

Comfort Ceiling Fan Coil System

Musikhaus Thomann – New Service Centre

With its new Service Centre in Treppendorf, which has a total floor area of 5,500 m² on two floors, Musikhaus Thomann currently has the largest service centre in the musical instrument sector; it provides services for musical instruments and for studio, lighting and sound systems. In three finger-like wings that extend to the south, there are offices, workshops, the reception centre for repairs, a call-centre and an amphitheatre for product presentations. By arranging the building elements in this way, the rooms have optimum natural lighting. The Service Centre can handle up to 1500 repairs a day. Eleven separate service areas with excellently equipped workshops, a testing laboratory, our own paint shop and a large spare parts store enable Thomann to offer even better and faster service for its customers from now on.



Photo © Musikhaus Thomann

The new service centre at Musikhaus Thomann – on its 60. jubilee in 2014, the company was voted best online shop of the year.

Features

As a family-owned company, Thomann lays great value on a pleasant working environment for its employees. For this reason the new Service Centre features several ventilation and air-conditioning systems from Kiefer. In the stores and workshop areas cooling is made by the totally draught-free ceiling fan coil system INDULVENT ec.



Photo © Kiefer, Reinhardt Tetzner

Pedestal displacement air outlet INDUQUELL DIV in the amphitheatre Musikhaus Thomann

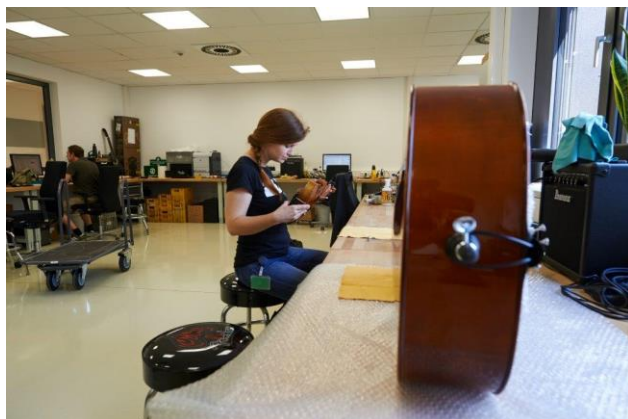
Distribution of the hygienically necessary supply air is mainly used by means of the combined inlets and outlets INDULCLIP-ZA. The almost identical front panels of the two systems achieve a visually uniform appearance.

In the open-plan sales office, INDUCOOL-Compact chilled ceiling panels were chosen; they are installed as continuous rows. Stringent technological and design requirements are combined in a harmonious, functional whole. The acoustic challenges in the amphitheatre have been taken into account with an individual concept employing pedestal displacement air outlets INDUQUELL DIV.

INDULVENT ec

Comfort Ceiling Fan Coil System

Musikhaus Thomann – New Service Centre



Comfort ceiling fan coil system INDULVENT ec



Chilled ceiling panel INDUCOOL-Compact in the open-plan office sales



Comfort ceiling fan coil system INDULVENT ec and ceiling air diffuser INDULCLIP-ZA in the workshop area



Photos © Musikhaus Thomann

Function Comfort Ceiling Fan Coil System INDULVENT ec:

Local ceiling fan coil systems allow the flexible use of available space. For high comfort requirements, INDULVENT ec ensures draught-free ambient air flow with high cooling capacity and low sound power levels. The compact unit employs a fan with energy-saving EC.

Advantages Comfort Ceiling Fan Coil System INDULVENT ec:

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Building: New Service Centre
Musikhaus Thomann eK,
Treppendorf, Bavaria

Architects: Blum Diez
Planung + Architektur
Kitzingen

Planning office: Ingenieurbüro HPM

Air diffuser system:
Comfort ceiling fan coil system INDULVENT ec
Ceiling air diffuser INDULCLIP-ZA
Transfer grilles INDUSILENT
Chilled ceiling panel INDUCOOL-Compact
Pedestal displacement air outlet INDUQUELL DIV
Wall air passage INDULSNAP

Comfort Ceiling Fan Coil System INDULVENT ec

EURONICS Deutschland eG, Ditzingen

EURONICS Deutschland eG is the largest retail trade cooperation for consumer electronics. The product ranges for their medium-sized specialist stores focus on consumer electronics, PCs/multimedia, telecommunications, photography and domestic appliances. The headquarters of EURONICS Deutschland eG is in Ditzingen and employs around 300 people. In the financial year 2010/2011, they generated a turnover of approximately 1.72 billion euro.



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- Integrated condensate pump
- Open BUS architecture

Building:	Euronics administration Ditzingen
Architects:	Architects Schmelzle + Partner BDA Hallwangen
Planning office:	Merkle Ingenieurgesellschaft Heidenheim
Comfort Ceiling Fan Coil System:	INDULVENT ec
Combined inlet and outlet:	INDULCLIP Z-A
Type of ceiling:	fibre acoustic ceilings

Ceiling fan coil system INDULVENT ec

Volksbank Lahr eG

The new main branch of the Volksbank Lahr bank has been completely redeveloped, modernised to improve its energy efficiency and renovated both inside and out. The scale of the investment amounts to approximately 8.5 billion euro. The entire customer area has been redesigned and adapted to the bank's current specific requirements. All of the materials have been selected and adapted to ensure consistency - from the flooring and ceiling right up to the wall panelling. A floor-to-ceiling water wall has been installed as a partition and to provide a visual highlight. Together with the integrated ventilation system, this produces a pleasant interior climate for both customers and employees.

Special features:

the new branch has been designed using classic white, modern anthracite and warm wood finishes. Light, warmth and clear structures on the floor and walls convey a pleasant, friendly and welcoming atmosphere for customers. The INDULVENT ec design element in the ceiling combines an optimised interior climate with an unusual design and plays an important role in creating harmony throughout the architectural design.



Photos: Dieter Wissing

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Building:	Main branch of the Volksbank Lahr bank
Proprietor:	Volksbank Lahr, Schillerstr. 22, 77933 Lahr
Planning office TGA:	Eichhorn + Engler, Friesenheim
System:	INDULVENT ec
Special feature:	Ceiling fan coil system INDULVENT ec together with INDULCLIP Z-A combined inlet and outlet



Photos: Dieter Wissing

Ceiling fan coil system INDULVENT ec

Salzburg Airport

With approx. 1.7 million passengers each year, the airport is Austria's second largest airport and is named after Salzburg-born composer Wolfgang Amadeus Mozart. Salzburg Airport presents itself as a modern regional airport that creates jobs and is a powerful investor that is playing an ever increasing role with regard to the economy and tourism.

New ventilation systems have been installed in the control centre to ensure a fresh and pleasant interior climate.

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Photos © Salzburg Airport

Building:	Control centre, Salzburg Airport
Planning office TGA:	Dick & Harner GmbH, Salzburg
System:	INDULVENT ec
Combined inlet and outlet:	INDULCLIP Z-A
Type of ceiling:	Metal-coffered ceiling
Cooling load:	110 W/m²