Seit 1877 Kiefer Luft- und Klimatechnik
Neue Wege mit Luft

Chilled Ceiling Panel INDUCOOL-Compact

Julius Blum – High standards for the environment and HVAC technology

Julius Blum is an international company based in Höchst that is specialised in the manufacture and sale of cabinet hardware. The family company can look back on more than 60 years of company history. Having started as a small smithy, over the course of half a century it has developed into an international hardware specialist. Today, the brand is well-known around the world for its innovative cabinet hardware.

From its licensed manufacture of Anuba hinges in 1958 to the first series of concealed cabinet hinges and roller runners in the sixties, Blum experienced continuous growth. In 1985, the company ushered in a new era with the development of the Blum Clip hinge for tool-free hardware installation. With recent technical innovations such as the Blumotion soft-close system in 2001, the electrical motion support system Servo-Drive in 2006 and the new motion technology Tip-On Blumotion in 2014, Blum continues to set new standards.

The high quality standards of Julius Blum apply not only to its own products, but also to the company's cooperation with its partners at all levels. In January 2015, Julius Blum GmbH partnered with nine other Vorarlberg companies to found the "Climate Neutrality Alliance 2025" with the goal of making all of their activities 100 percent climate-neutral by the year 2025. As a result, the requirements for the function and design of HVAC systems are equally high at all plants.

As early as 1995, Kiefer supplied ventilation components to Blum for convenient HVAC technology, which perfectly combines function and design. From the initial construction phase through to the current phase, Kiefer has implemented customised solutions that are capable of meeting sophisticated challenges. INDUL, INDUCOOL-Compact and INDULVENT ventilation components were used in a range of applications in various plants and construction phases, in offices, as well as in training workshops, training rooms and testing rooms.

INDUL in the light well in Plant 3 Photo © plafondnova André Leuenberger

Optimally integrated INDUL linear diffuser in Plant 3 Photo © Kiefer GmbH

INDUCOOL chilled ceiling panel in Plant 7 Photo © Kiefer GmbH

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Julius Blum – Sites with Kiefer air diffusers and chilled ceilings

The Julius Blum company continues to grow and will soon open its eighth plant in Dornbirn.

Plant 1, the former main plant, is currently home to the engineering departments, while the cabinet hinge manufacturing and administration of Blum are located in Plant 2.

The technical centre incorporating research and development is located in Plant 3. In the partially renovated offices in Plant 2 and Plant 3 at Höchst, 1,100 m INDUL linear diffusers and 720 m INDUCOOL cooling panels were integrated in Plafondnova expanded metal acoustic ceilings.

Plant 1, Höchst – Former main plant

Plant 2, Höchst – Headquarters with ad-

Plant 3, Höchst – Technical centre

Plant 4, Bregenz – Box/runner systems

Photos © Blum GmbH

Expanded metal ceilings with integrated INDUCOOL ceiling elements as chilled ceilings in Plant 3 - Photo © Kiefer GmbH

Box and runner systems are produced in Plant 4 in Bregenz. To provide ventilation, 700 m of INDUL linear diffusers, types P15 and P18, were optimally integrated into the ceilings.

Kiefer components in Plant 2
Photo © Kiefer GmbH

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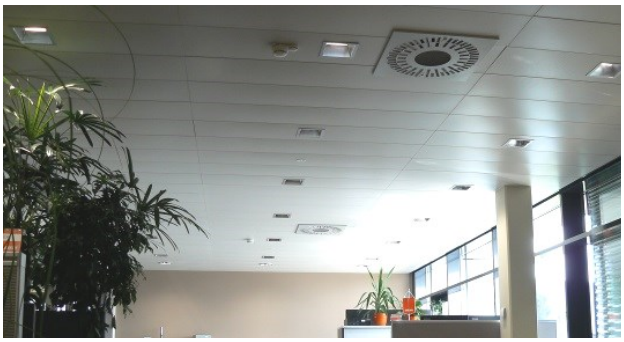
Individual components for fitting systems and assembly aids are manufactured in Plant 5 in Fußach.

In Plant 6 in Gaißau, parts for pull-out systems are produced. This is also where the plastic coating systems are located.

Plant 7 is located in Dornbirn and has its own rail connection. This logistics centre is optimally conditioned with more than 400 m of INDUCOOL chilled ceiling panels and 40 INDUVENT ec circulation coolers from Kiefer.

In the near future, the new punching plant, Plant 8, will be completed in the immediate vicinity of Plant 7. The use of further ventilation components from Kiefer is planned there, too.

Kiefer INDUCOOL-Compact chilled ceiling panels in Plant 3



Decentralised fan coil system INDULVENT ec in Plant 3.
Photos © Kiefer GmbH

Blum Plant 7, Dornbirn, logistics centre: Chilled ceiling panels INDUCOOL-Compact
Photo © Kiefer GmbH

Plant 5, Fußach – Individual components

Plant 7, Dornbirn – Logistics Centre

Plant 8, Dornbirn – Planned new construction

Photos © Blum GmbH

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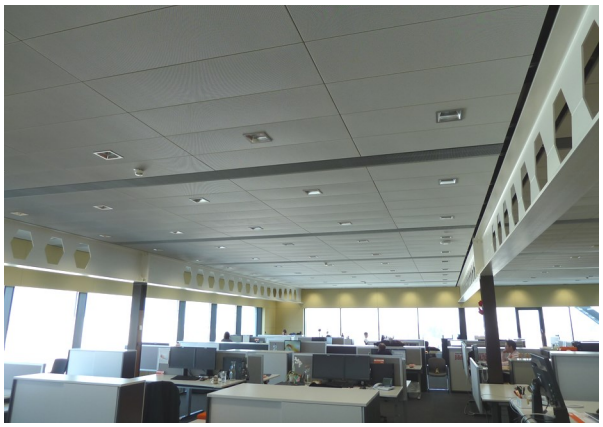
Julius Blum – Expanded metal acoustic ceilings with INDUCOOL

INDUL linear diffuser in Plant 2 - Photo © Kiefer GmbH



INDUCOOL chilled ceiling panel in Plant 2 - Photo © plafondnova

INDULVENT ec RQF in Plant 3 - Photo © Kiefer GmbH

INDUCOOL functional chilled ceiling panel:

INDUCOOL cools with air and water. Most of the thermal energy is removed quickly and economically by cooling water. High-quality air diffusers ensure a high degree of comfort and optimum air distribution.

Advantages of INDUCOOL chilled ceiling panels:

- Greater thermal comfort with low air velocity
- Chilled ceiling panels require only 5-10% of ceiling area
- Reduced energy costs by exploiting the cooling potential of outdoor air
- High cooling capacity, up to 500 W/m
- Integration of cooling panels into all common ceiling systems
- A full-surface cooling-water system is not required

Building:	Julius Blum Plant 2 BE 11 and Plant 3 BE 8, Höchst, Austria
Architects:	Arno Bereiter Architekturwerk-statt, Lustenau, Austria
Proprietor:	Julius Blum Beschlägefabrik GmbH, Austria
Consultant:	Klimaplan, Hohenems
Ceiling- and wall air systems:	PLAFONDNOVA AG, Rotkreuz Switzerland
Additonal Plants:	Bregenz, Fußach, Gaißau, Dornbirn

Scope Höchst plant 2 BE 11 and plant 3 BE 8:
700 rm. chilled ceiling panel INDUCOOL-Compact

Scope, total:
approx. 1,400 m2 chilled ceiling panel INDUCOOL-Compact
approx. 2,000 m2 linear diffuser INDUL
approx. 100 units comfort fan coil system INDULVENT

Completion: 1995-2016

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