



Seit 1877

**Kiefer**

Luft- und Klimatechnik

Neue Wege mit Luft

# Chilled Ceiling Panel INDUCOOL-Compact

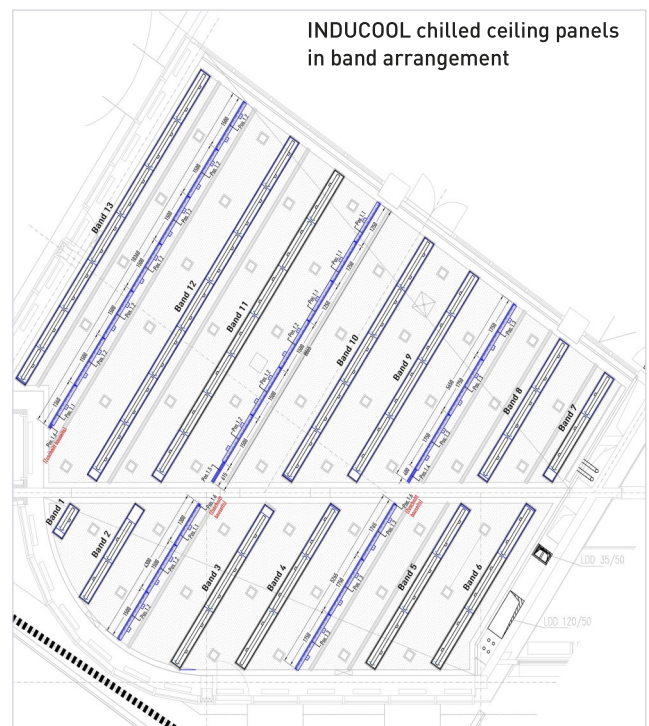
## New CSU Party Headquartes Munich



Photo © Kiefer GmbH

INDUCOOL chilled ceiling panels for a high thermal comfort in meeting- and conference rooms

The German political party CSU chose the former building of the publisher Langenscheidt Verlag in the Mies-van-der-Rohe Straße 1 for its new headquarters. However, beforehand it was necessary to modify the 15 year-old building to cater for the requirements of the new owner. The focus was on the technical modernisation and equipment of the meeting rooms and function rooms. This included replacement of the air conditioning systems. The high cooling loads and large air flow rates made completely new planning necessary, which at the same time had to ensure optimal heating comfort for the users. Due to very good experience in the implementation of previous projects with Kiefer, the engineering planning office ITG GmbH Landshut decided for a combination of INDUCOOL chilled ceiling panels and INDUL linear diffusers. The architects' office Weickenmeier, Kunz + Partner was impressed by the attractive appearance and the seamless integration of the components into the ceiling design. Detailed planning with all of those involved in the project enabled to create



INDUCOOL chilled ceiling panels in band arrangement

a successful combination of sophisticated air conditioning and visually attractive ceiling design.



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### Features

The challenge in this project was the combination of different requirements: High cooling loads in the meeting rooms and conference area on the one hand, and adaptation to the special room geometry, which is essentially characterised by the curved façade on the other. This was a case of putting a square peg into a round hole, rather than a round peg into a square hole. The high density of the function equipment also required a large amount of space in the ceiling. While the INDUCOOL panels meet the requirements for the high cooling load, the increased air flow rates are covered by the INDUL linear diffusers. With this innovative combination, all of the out-line conditions could be optimally met under the very high conditions for comfort.



Exterior view of the new CSU party headquarters

### Function INDUCOOL

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.



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Conference room equipped with INDUCOOL Chilled ceiling panels and INDUL Linear diffuser from Kiefer

### System advantages INDUCOOL

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

<b>Building:</b>	CSU Parteizentrale, Munich
<b>Proprietor:</b>	Christlich-Soziale Union in Bayern e. V.
<b>Architects:</b>	Weickenmeier, Kunz + Partner Architekten, Ingenieure GmbH, Munich
<b>Consultant:</b>	ITG GmbH Landshut, Eching
<b>Components:</b>	150 lfm INDUCOOL-Compact Chilled ceiling panels 70 lfm linear diffusers INDUL V24 and V45
<b>Completion</b>	2016