



Seit 1877

Kiefer

Luft- und Klimatechnik

Neue Wege mit Luft

Chilled Ceiling Panel INDUCOOL-Compact

Head Office Municipal Utility Karlsruhe



The high performance chilled ceiling panel can be integrated into any design concept. The supply air is distributed draught-free to the occupied level by the integrated linear diffuser. Elegant aluminium profiles enable the panel to function simultaneously as a design element, whilst the modest ceiling area it occupies allows architects plenty of freedom in design.

Renovating to improve energy efficiency

In the course of the energy-oriented renovation at Stadtwerke Karlsruhe, a new interior and workplace concept was developed. The company's head office building, which dates from 1977, combines customer areas, a kitchen with canteen, workshops and offices for up to 550 employees.

The task assigned to architectural office Scope, based in Stuttgart, was to come up with a design language for the newly modernised offices that would reflect the values of the company whilst retaining its traditional heritage.

Through its INDUCOOL panels, Kiefer was able to meet both the technical and visual requirements to bring about this exceptional working environment.



Photos © Nikolay Kazakov





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The Kiefer INDUCOOL chilled ceiling panel forms a visual and functional whole, in combination with fabric-covered acoustic sails. The overall visual tone, with understated white surfaces, is deliberately accentuated with elements of colour, and the work islands of the open-plan offices are reflected in the zoned ceiling design. In addition to optimum room acoustics, the partly hinged acoustic sails make these ceiling areas accessible for maintenance and enable access to control equipment.

Furthermore, the INDUCOOL chilled ceiling panel occupies just 5 % of the total ceiling area, making such tasks even more straightforward. For the larger, open-plan areas, a cooling load of 50 W/m² can be comfortably attained with just a double air exchange rate. During a visit to our flow laboratory in Stuttgart, a visually impressive smoke and particle test was carried out to demonstrate all the functions and properties of the INDUCOOL chilled ceiling panel to the leading design engineers.

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

Technical Data

Object:	Head Office Municipal Utility Karlsruhe
Proprietor:	Stadtwerke Karlsruhe
Planner:	FC-Planung GmbH, Neustadt a. d. Weinstraße bzw. Ettlingen
Architect:	SCOPE Architekten, Stuttgart
Construction volume:	14.000 m ²
Product:	800 lfm. Chilled Ceiling Panel INDUCOOL