



emcoair Product overview

Air diffusers

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- ceiling air diffusers
- linear diffusers
- circular pipe diffusers
- displacement diffusers
- industrial diffusers
- combination linear diffusers
- floor diffusers
- grids
- multileaf diffusers
- regulation components
- electronic regulation components

In 1972 emco klima was launched to produce a series of best quality air diffusers. Continuous development of products for various different air delivery systems and their 'on-time' despatch, gradually secured the creation of well earned trust between emco and the consultant specifiers, contractors and end users.

emco klima also offers 'In-house' services that include laboratory testing, computer analysis and product selection during the planning process, to provide functional dependability and optimum economic efficiency for the entire range of air and water based systems.





DECKEL MAHO Pfronten GmbH, Pfronten, Germany



DePfa-Bank, Wiesbaden, Germany



McDonalds, Frankfurt, Germany



DFB Museum, Dortmund, Germany



Airport, Munich, Germany



Dresdner Bank, Munich, Germany



emcoair swirl - and ceiling air diffusers

Swirl diffusers represent the most significant development in classic ventilation technology. The use of swirl diffusers made it possible to bring high levels of volume air into commercial areas and to discharge high thermal loads. Despite this, high levels of comfort are reached, because emco swirl diffusers have an adjustable induction feature that quickly and effectively reduces supply air velocity and differences in temperature and thus create a pleasant and cosy climate in occupied areas.

An aesthetically pleasing design adds to the excellent quality of the emco swirl diffuser. Available in various standard designs and sizes as well as in special sizes and colours, depending on the architectural requirements.



DePfa-Bank, Wiesbaden, Germany

emcoair linear diffusers

emco's patented eccentric cylinder builds the core of the slot diffuser and is furthermore an important air control element in other emco air control systems. Upon request, each individual cylinder element can be delivered in a defined setting, which is easily readable on the cylinder body. This guarantees not only maximum comfort but also saves the user from having to make possibly complex or timeconsuming settings. The optional motorized adjustment mechanism allows the

diffuser to be used for heating and cooling, whereby diffuser SAL stands out from conventional slot diffusers through its innovative design. The latest developments in slot technology have led to rounded slot diffusers, the first of their kind that allow completely harmonious integration into the building's architectural structure. Free choice of color for the slot profiles and cylinder bodies complete the list of reasons why you should make emco diffusers your product of choice.



Stadtarchiv Karlsruhe, Germany

emcoair circular pipe diffusers

Architects can choose to either fully integrate technical air conditioning equipment into the structure, rendering the system invisible, or they can choose to demonstratively show them, thus adding further emphasis to a building's modern appearance. The latter choice being the inspiration for emco to develop a system circular duct diffusers. This system uses various materials and colors and allows air control in just about any type of circular duct system, whereby thermal comfort and an adjustment of

the volume flow in the entire system are guaranteed. Air is discharged at exactly the points where it is needed and penetrate the room exactly as emco engineers have planned. Should the ducts in greater heights need to be used for heating, cooling and ventilation, they can be equipped with a motorized adjusting mechanism to distinguish the jet direction between cooling and heating.

emcoair diffusers. Perfect air-conditioning.

emcoair swirl diffusers



DRS



DAL359



DAL 358

emcoair ceiling air diffusers



DIA



MPC



MSA, MSA-V

emcoair linear diffusers



SAL 35



SAL 50



SAL-V



SAL-S

emcoair circular pipe diffusers



RRA, RRA-V



ORA

emcoair displacement diffusers



QAL-L, QAL-R, QAL-H, QAL-V



QAL-K

emcoair floor diffusers



LBQ

For all comfort and industrial areas.

emcoair industrial diffusers



IVA



VLD



VLV



LDA



LDI



LUWIRO

emcoair industrial diffusers



WKD380



WKD381



KS



KSW

emcoair combination linear diffusers

emcoair grids



G341



G345



G326



G311



G328



G329

emcoair multileaf dampers



JKS481, JKS482, JKD485, JKD486



VR10, VR 20, VR31 – 33



EVR



VRJK

emcoair displacement diffusers

Displacement flow diffusers are currently the trend for systems that primarily conduct air. The streamlined intake of supply air via large inlet areas and the low temperatures allow not only an inaudible and invisible air conditioning system. The fresh air entering a room makes it possible for natural heat sources such as humans to take in the fresh air directly from their immediate surroundings. This natural and effective principle allows a covering of internal loads of up to approximately 50 W/m². If the thermal loads are higher, emco displacement flow diffusers are combined with the chilled ceiling system

emcoair industrial diffusers

A research project by the Federal Ministry for Research and Technology (BMFT, project number 01 HK 216) developed an air conduction model that has since become the standard in industrial ventilation. Layered ventilation balances out the warm air discharged from the occupied area with fresh air, creating comfortable conditions with low supply air rates. The emcoair LUWIRO developed within the framework of these studies is perfect for these applications. In large sized halls with low or no noxious matter – e.g. event halls or assembly areas –

emcoair combination linear diffusers

Large-scale projects involving modern building services and engineering methods present different challenges to their older counterparts. Specific loads present in these buildings are discharged in various ways, using centralised, decentralised, water-based or air-only systems. At the same time, design engineers have to fulfil sophisticated architectural demands in both exterior and interior areas. Designing and executing a multitude of large-scale projects has allowed emco to gain extensive experience in this area

emcocool. Large outlet areas must have an aesthetically pleasing appearance or be integrated into the structural conditions. In addition to the conventional models QAL-R, QAL-H, QAL-V and QAL-L, special models such as QAL-K were developed.

higher installation heights and greater vertical penetration depths are required. The LDA meet both these demands and the requirements of layered ventilation systems. Special diffusers achieve the highest penetration depth at high supply air temperatures: The emcoair WKD guarantees an equal warm air distribution due to the integrated high-speed nozzle even from very high installation points. Its ability to rapidly heat up halls ensures an energy saving operation. The new displacement air diffuser IVA is suitable for medium installation heights.

and acquire an impressive portfolio of solutions. Not only does the company employ this in its existing projects, it also uses it to research and develop new products and approaches. While it often makes sense to integrate products into the structure of the building or its fixtures and fittings, in other cases it may be a better option to combine supply and exhaust air control in a single product. Whatever the case, emco can offer the system you require for your project.



Caracalla Therme, Baden Baden, Germany



DECKEL MAHO GmbH, Pfronten, Germany



Kampmann and emco Klima: A strong partnership in air conditioning.

“The emco Klima brand has always been synonymous with high-quality engineering and high-grade building services products. Since the start of 2018, this work has continued under the auspices of the Kampmann Group: an environment in which the focus is clearly on building services, as Kampmann is one of the leading lights in this sector.

What we find at Kampmann is an operating climate in which our knowledge and expertise can flourish and where the collaboration between specialists on both sides now makes way for exciting synergies. It will be our customers, first and foremost, who will benefit from this and will now have access to comprehensive and coordinated system solutions.”



Dipl.-Ing. Frank Bolkenius
Managing Director emco Klima GmbH



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