



► **Products**  
Overview

# Products

For Heating, Cooling and Ventilation

► **Overview**

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## Applications



Hotels



Offices and Commercial Buildings



Showrooms and Sales Floors



Retail Chains



Commercial and Industrial Buildings



Warehouses and Logistics Buildings



Sports Halls and Indoor Riding Arenas



Churches and Historical Buildings



Nursery Schools and Schools



Residential Buildings

## Functions



Heating



Cooling



Ventilation

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Heating

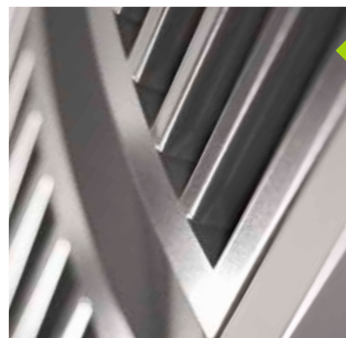
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# Kampmann

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1

# Trench Technology





# Trench Technology

Indoor climate from the floor



Often heating and cooling units are visually unacceptable in front of the windows of modern commercial buildings. At the same time, demands are growing on the part of the users for improved air conditioning.

The wide range of products from the Katherm trench technology product line always offers the perfect solution. As the market leader in this segment, Kampmann offers a wide range of designs: from natural convection, different fan-assisted designs to special solutions, like displacement ventilation.

Kampmann offers a trench system with outdoor supply air/recirculating air function for use in raised floors. An integrated secondary air fan enables the room air to be rapidly heated and cooled in addition to the supply of heated and cooled outdoor supply air.

With the Katherm QK nano, Kampmann offers a trench convector unit with smallest dimensions. The product group takes into account installations that impact on the design of the building, for instance by offering an extensive range of design grilles with different bar profiles, colours and materials. Moreover, the most diverse trench shapes are also possible. Thanks to the Katherm modular system, this can largely be adjusted directly on site.

In terms of control, the trench technology system can easily be integrated into modern BMS systems.

EC technology guarantees maximum energy efficiency. EC fans can be operated on-demand infinitely variably within a low fan speed range, even at low air volumes, with intelligent, integrated electronics and thus energy-efficiently. Low fan speeds have a positive effect on noise levels in areas, like offices, where the noise levels lie far below the audible threshold or the usual measuring range.

## Overview



- ❶ Katherm NK
- ❷ Katherm QK
- ❸ Katherm QK nano
- ❹ Katherm HK
- ❺ Katherm QL
- ❻ Katherm QE

# Discrete HVAC Solutions for Modern Building Design:

Today's Trench Heating, Cooling, Ventilation Technology.

Kampmann UK. Ltd offers a new architectural CPD seminar, approved by RIBA, as part of the RIBA core curriculum.

This seminar ensures participating architects credits for their further qualifications. This CPD Seminar provides an overview of the applications of modern trench heating, cooling, ventilation technology. It will show available solutions, how to integrate trench systems into modern architectural design in a discrete and aesthetic form and looks at legislative and environmental issues around modern trench products.

## Topics:

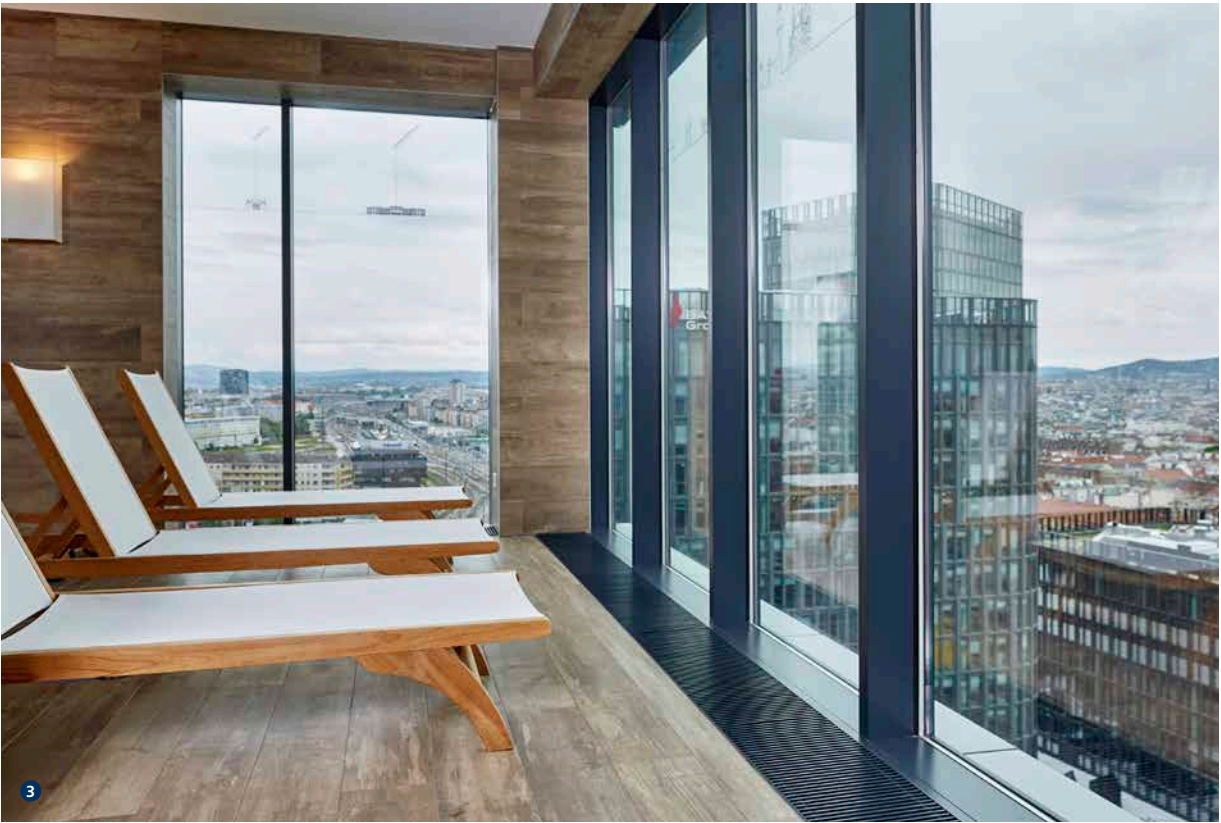
- ▶ Overview about latest Trench Heating/Cooling/Ventilation Products and Applications
- ▶ Legislative and Environmental Background of modern Trench Systems
- ▶ Solutions for architectural requirements with regards to Trench Products

## Learning outcomes:

- ▶ The delegates should be able to identify if modern trench technology is an option/can be used on their individual projects to cover the requirements with regards to comfort in the space, they design.
- ▶ The delegates should be able to identify how modern trench products can be integrated within their projects from an architectural perspective.







- 1 Hotel Lido Palace, Riva del Garda TN
- 2 Hotel Roomers, Baden-Baden
- 3 Quartier Belvedere Central, Vienna

# BS EN 16430

## An introduction

### Current Testing Standard for Trench Heating and Trench Cooling.

The advances in technology within trench heating and cooling has allowed consultants to design more sophisticated heating and cooling systems within modern buildings. With this in mind, it has become necessary to formulate a new testing standard aimed at trench heating and cooling.

The new testing standard is the BS EN 16430 "Fan assisted radiators, convectors and trench convectors". This standard has far reaching implications for the building services industry. Finally trench heating and trench cooling systems of different manufacturers are comparable with each other. This standard will provide planning security for these systems to consultants and architects.

#### **This standard consists of the three parts:**

- ▶ **Part 1:** Technical specifications and requirements,
- ▶ **Part 2:** Test method and rating for thermal output,
- ▶ **Part 3:** Test method and rating for cooling capacity,

and should have been given the status of a national standard in all EU-member states by June 2015 latest.

#### **The aim of the BS EN 16430 is to determine**

- ▶ performance data, to allow a like for like comparison between different products of different manufacturers.
- ▶ provide technical data for the design of the systems according to the project-specific requirements.

The standard not only deals with the thermal performance of a unit. Also the quality of the products itself will be looked at. This includes e.g. the requirement of pressure testing of all coils/ convectors and electrical and mechanical safety of the units according to the EN 60335-2-80 and EN ISO 12499.

For fan assisted units, the manufacturers have to test and publish noise power data at various fan speeds. This is a significant information, as units should be selected against the thermal requirements of the project, not exceeding the noise criteria in this project. Latest EC-fan-technology allows the use of fan assisted units, even in residential buildings with strictest noise requirements.

The thermal performance test will be carried out in a test chamber, known from the BS EN 442, dealing with radiators and convectors.

As with the BS EN 442 the new BS EN 16430 for trench systems bases all thermal performances on the reference air temperature.

This is a temperature measured 2 metres away from the perimeter, in a height of 750 mm above finished floor level. This makes sure that the products provide the performance in the area occupied by persons. Do not mix the reference air temperature with the entering air temperature into the coil. Specially in cooling mode, there can be a significant difference between these two temperatures, ending with the conditions in the occupied area being very different from what expected from your client.

To make sure, the products you selected are in line with the BS EN 16430, the actual testing standard for trench heating and trench cooling systems, please ask the manufacturer for the CE Declaration of conformity for the product. The BS EN 16430 should be mentioned in this document, if the units are tested in accordance.







- ❶ "Kristall" Holzhafen, Hamburg
- ❷ ADAC Headquarters, Munich
- ❸ Schloss Elmau Retreat, Elmau

# Trench Technology

## Overview



	Article Group 1.45	Article Group 1.42	Article Group 4.42
Operation	<ul style="list-style-type: none"> <li>▶ natural convection</li> <li>▶ heating with LPHW</li> </ul>	<ul style="list-style-type: none"> <li>▶ EC cross-flow fan convection</li> <li>▶ heating with LPHW</li> <li>▶ BMS interface</li> </ul>	<ul style="list-style-type: none"> <li>▶ heating with LPHW</li> <li>▶ EC cross-flow fan convection</li> <li>▶ BMS interface</li> </ul>
Properties	<p><b>Trench height</b> 92, 120, 150, 200 mm</p> <p><b>Trench length</b> 800–5,000 mm</p> <p><b>Trench width</b> 137, 182, 232, 300, 380 mm</p>	<p><b>Trench height</b> 112 mm</p> <p><b>Trench length</b> 1,000–3,200 mm</p> <p><b>Trench width</b> 190, 215 mm</p>	<p><b>Trench height</b> 70 mm</p> <p><b>Trench length</b> 900–2,700 mm</p> <p><b>Trench width</b> 165 mm</p>
Product features	<ul style="list-style-type: none"> <li>▶ performance-optimised</li> <li>▶ shallower depths combined with high outputs</li> <li>▶ fully adaptable to the building contours</li> <li>▶ accessory Katherm modular system</li> <li>▶ optional supply air trench can be added for various sizes</li> </ul>	<ul style="list-style-type: none"> <li>▶ whisper-quiet EC technology</li> <li>▶ shallower depths and high outputs</li> <li>▶ fully adaptable to the building contours</li> <li>▶ accessory Katherm modular system</li> <li>▶ optional supply air trench can be added for various sizes</li> </ul>	<ul style="list-style-type: none"> <li>▶ highly reduced dimensions</li> <li>▶ with the usual whisper-quiet EC technology and high outputs</li> <li>▶ new FineLine grille</li> </ul>



**Article Group 1.43**

- ▶ EC cross-flow fan convection
- ▶ heating with LPHW
- ▶ cooling with CHW
- ▶ 2 or 4-pipe system
- ▶ BMS interface

**Trench height**

130, 160 , 210 mm

**Trench length**

Height 130/160: 915 (height 130 mm),  
950 (height 160 mm), 1,200, 1,700,  
2,000, 2,500, 3,000 mm

Height 210: 950, 1,200, 1,350, 1,850,  
2,250 mm

**Trench width**

Height 130: 320 mm  
Height 160: 290 mm  
Height 210: 360 mm

- ▶ EC tangential fan, whisper-quiet and energy-efficient, optimised air flow and cascaded in the form of a continuous line of fans
- ▶ tangential fan is easy to remove
- ▶ condensate tray can be removed for ease of cleaning
- ▶ Eurokonus valve connection for fast installation
- ▶ optional supply air trench can be added for various sizes

**Article Group 1.41**

- ▶ targeted supply of conditioned air (displacement air)
- ▶ low-turbulence room ventilation with low discharge speed
- ▶ additional heating with LPHW

**Trench height**

130, 180, 230 mm

**Trench length**

project-related;  
minimum length 1,100 mm

**Trench width**

272, 310, 340, 400, 420 mm

- ▶ high-output convector for screening external glazing
- ▶ for the targeted supply of conditioned displacement air
- ▶ effective and low-turbulence stratified ventilation

**Article Group 2.42**

- ▶ heating with electrical element and fan convection
- ▶ EC tangential fans
- ▶ high heat output at low sound pressure level
- ▶ for full space heating
- ▶ BMS interface

**Trench height**

112 mm

**Trench length**

825, 1,250, 1,700 mm

**Trench width**

207 mm

- ▶ 2-stage safety switch comprising safety thermostat and temperature fuse as protection against incorrect operation
- ▶ integral 0–100 % output control
- ▶ low surface temperatures
- ▶ easy control via room thermostat or BMS at 0–10 V
- ▶ fast warm-up of the room

# Trench Technology

At a glance

## HK

Trench convector for heating or cooling. EC cross-flow fan convection, whisper-quiet and energy-efficient.

## QE

EC tangential fan convection with electrical heating element.

## NK

Natural convection all-purpose, individual, made-to-measure.

## NK

Minimal dimensions, maximum output.



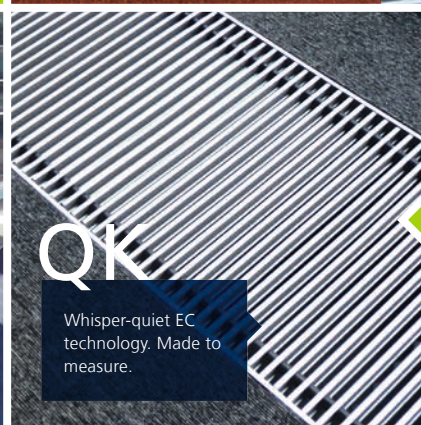


## QK<sub>nano</sub>

Top performance from smallest dimensions, with filigree FineLine grille.

## HK

Heating and cooling as a 2-pipe and 4-pipe system.

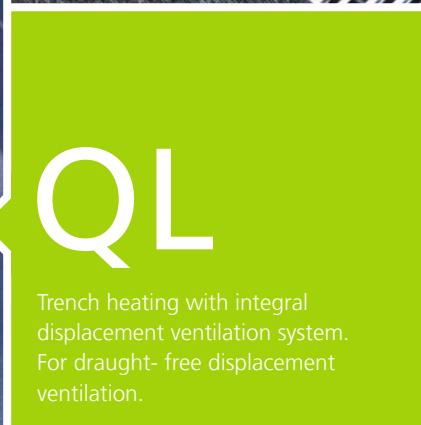


## QK

Whisper-quiet EC technology. Made to measure.

## QK

Trench convector with EC cross-flow fan convection. Optimised for ultra low water temperatures.



## QL

Trench heating with integral displacement ventilation system. For draught-free displacement ventilation.







# Perimeter Heating

Multi-functional, durable, highly responsive



Uncased or cased, wall-mounted or free-standing encased convectors: Kampmann convectors meet the most exacting design requirements. They blend seamlessly into the interior style both in residential and commercial buildings.

Kampmann convectors emit their high heat output when encased, with the additional benefit of blending harmoniously into the interior design.

PowerKon + W and PowerKon + F encased convectors with PowerKon copper/aluminium heat exchangers are the functional and value-for-money alternative for

effective heating. They stand out on account of their consistent design and compact construction with minimal heights and widths. The low water content ensures short heating-up times and precise controllability.

The PowerKon + ST is ideal for the education, healthcare and residential care sectors. Casing and bracketry coated with an anti-bacterial and scratch resistant epoxy powder, colored in RAL 9016, pure white. There are no joints in the casing to gather dirt, dust and potential bacteria.

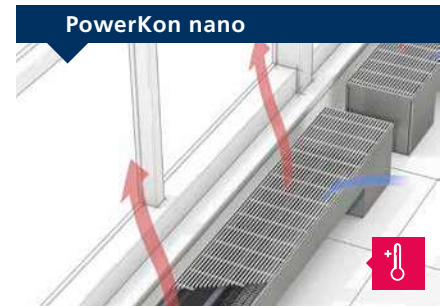
There are two floor mounted and two wall mounted models of the PowerKon + ST. The unit is flexible to use, thanks to its various heights, depths and lengths.

## Overview



# Perimeter Heating

## Overview



	Article Group 1.26	Article Group 1.26	Article Group 1.34
Operation	<ul style="list-style-type: none"> <li>▶ heating with LPHW</li> <li>▶ natural convection</li> </ul>	<ul style="list-style-type: none"> <li>▶ heating with LPHW</li> <li>▶ natural convection</li> </ul>	<ul style="list-style-type: none"> <li>▶ heating with LPHW</li> <li>▶ EC cross-flow fan convection</li> <li>▶ BMS interface</li> </ul>
Properties	<p><b>Height</b> 80, 130 mm</p> <p><b>Length</b> 600–2,600 mm</p> <p><b>Depth</b> 130, 180, 230 mm</p> <hr/> <p><b>Air outlet</b></p> <ul style="list-style-type: none"> <li>▶ linear grille with C-shaped profile</li> </ul> <p><b>Colour</b></p> <ul style="list-style-type: none"> <li>▶ standard RAL 9016,</li> <li>▶ other colours on request</li> </ul>	<p><b>Height</b> 250, 400, 550, 700 mm</p> <p><b>Length</b> 600–2,600 mm (2,400 mm to depth 220 mm)</p> <p><b>Depth</b> 70, 120, 170, 220 mm</p> <hr/> <p><b>Air outlet</b></p> <ul style="list-style-type: none"> <li>▶ perforated profile</li> <li>▶ linear grille with C-shaped profile</li> </ul> <p><b>Colour</b></p> <ul style="list-style-type: none"> <li>▶ Standard RAL 9016,</li> <li>▶ other colours on request</li> </ul>	<p><b>Height</b> 150 mm</p> <p><b>Length</b> 800–2,000 mm</p> <p><b>Depth</b> 160 mm</p> <hr/> <p><b>Air outlet</b></p> <ul style="list-style-type: none"> <li>▶ linear grille</li> <li>▶ façade-side air outlet</li> </ul> <p><b>Colour</b></p> <ul style="list-style-type: none"> <li>▶ standard DB 703</li> <li>▶ other colours on request</li> </ul>
Applications	<ul style="list-style-type: none"> <li>▶ functional, value-for-money model for the visually appealing use of convectors, for instance for installation along the façade of the building</li> <li>▶ free-standing installation</li> </ul>	<ul style="list-style-type: none"> <li>▶ for the encased use of convectors</li> <li>▶ available in two different design models</li> <li>▶ wall-mounted</li> </ul>	<ul style="list-style-type: none"> <li>▶ for residential use, commercial refurbishment or new-build applications and hotels</li> <li>▶ ideal for installation in front of full-height glazing</li> <li>▶ free-standing installation</li> <li>▶ new FineLine grille</li> </ul>





### Steel Convector



### PowerKon + ST



#### Article Group 1.10

- ▶ heating with LPHW
- ▶ natural convection

#### Height

70, 150 mm

#### Length

500–5,000 mm

#### Depth

50, 100, 150, 200, 250, 300 mm

#### Air outlet

- ▶ individual air outlet

#### Colour

- ▶ galvanised

- ▶ for use in convactor casings or for installation in a trench: the professional solution!

#### Article Group 1.26

- ▶ low surface temperature convector
- ▶ heating with LPHW
- ▶ natural convection

#### Height

500, 650, 800 mm

#### Length

650, 850, 1,050, 1,250, 1,450, 1,650, 1,850, 2,050 mm

#### Depth

120, 170, 220 mm

#### Air outlet

- ▶ pencil proof linear bar grille with 7.1 mm bar spacing

#### Colour

- ▶ standard RAL 9016
- ▶ other colours on request

- ▶ for low water content and energy savings
- ▶ ideal for the education, healthcare and residential care sectors
- ▶ available in two different design models: floor-standing and wall-mounted
- ▶ quick and easy to install

# Perimeter Heating

At a glance



## PowerKon + W

Wall-mounted convector for low water temperatures.



## PowerKon nano

The free-standing convector for a perfect view in front of glazing.



## PowerKon + F

Free-standing convector for use with low water temperatures.

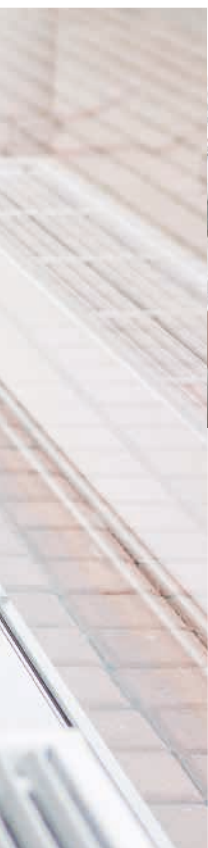






## Steel Convector

Multifunctional, concealed heaters, galvanised steel. High-outputs in customer casings.



## PowerKon +ST

"Safe Touch" low surface temperature convector.





3

## Design Grilles



# Design Grilles

For modern buildings



For some years now, the trend in modern architecture has been to actively incorporate required operating systems into the overall interior design. Kampmann design grilles take this development into account.

The wide range of materials and colours open up numerous design options. In terms of metal, the available finishes range from aluminium to brass and stainless steel. Oak, beech, maple and merbau offer four wooden grilles to create an individual homely impression.

Thanks to the many projects that Kampmann has already completed, we are able to call on an extensive stock of special solutions, like different angles, curves, adjustments to pass around columns and polygonal connections, recesses, mitred corners and many more.

Kampmann will take care of everything, from site measurements to delivery.

## Overview



- 1 Optiline Roll-up Grilles
- 2 Wooden Roll-up Grilles

# Design Grilles

## Overview

### Optiline Roll-up Grilles



### Wooden Roll-up Grilles



#### Article Group 1.30

##### Aluminium

- ▶ natural anodised E6/EV1
- ▶ brass anodised E6/EV3
- ▶ bronze anodised E6/C34
- ▶ black anodised E6/C35
- ▶ light bronze finish E6/C31
- ▶ basalt grey coated (DB 703)

##### Stainless Steel

- ▶ natural
- ▶ polished
- ▶ brushed

##### Brass

- ▶ natural CuZn 44

##### Profiles

- ▶ double T-profile in aluminium, brass bar spacing 9/12 mm
- ▶ double T-profile, stainless steel bar spacing 10.5 mm

##### Free area

- ▶ approx. 65 % and 70 %

- ▶ Optiline grilles stand out on account of their slim bar profiles whilst retaining a narrow bar spacing. This creates an attractive appearance whilst ensuring the correct free area in terms of air flow.
- ▶ both sides of the grille can be used

#### Article Group 1.30

##### Oak

- ▶ natural lacquered
- ▶ oiled

##### Beech

- ▶ natural lacquered
- ▶ oiled

##### Maple

- ▶ natural lacquered
- ▶ oiled

##### Merbau

- ▶ natural lacquered
- ▶ oiled

##### Profiles

- ▶ solid wooden profile bar spacing 15 mm
- ▶ bar height: 18 mm

##### Free area

- ▶ approx. 60 %

- ▶ wooden roll-up grilles accentuate a warm and homely atmosphere indoors

Colours \*)

Properties

Special features





## Optiline Roll-up Grilles

Ultra-elegant narrow-spaced  
air outlets.



### Wood

The natural  
alternative for office  
and residential use.

## Wooden Roll-up Grilles

Warm and homely – decorative  
wooden covers.

\* The colours of the grilles shown here may be distorted in printing and thus do not represent an exact reproduction of the original colour.



# 4

## Door Air Curtains



# Door Air Curtains

Keep the cold outside!



Kampmann commercial and industrial door air curtains offer optimum screening for air conditioned interior spaces. They reliably do their job wherever outdoor and indoor climates meet.

Thanks to their screening effect across open doors, door air curtains provide a comfortable interior environment during the colder months. The noticeable warm air flow creates a rapid sense of comfort especially when the outside temperatures drop.

## Door air curtains also have a number of additional benefits:

- ▶ minimal energy losses by screening cold outside air in winter
- ▶ fewer draughts. Workstations can be arranged closer to the entrance area, thereby maximising the use of the floor space
- ▶ in summer they aid air conditioning systems when operated without heat, reducing the ingress of warm outside air, saving on cooling output and energy costs
- ▶ accumulated heat from the ceiling area is utilised for air screening
- ▶ versatile use in retail outlets of all kinds, malls and public buildings

ProtecTor is unique in the industrial heating sector: this door air curtain operates with a warm and ambient air stream, saving up to 38 % energy compared to conventional systems. The discharge nozzles concentrate the air stream for targeted output.

## Overview



1



2



3



4



5

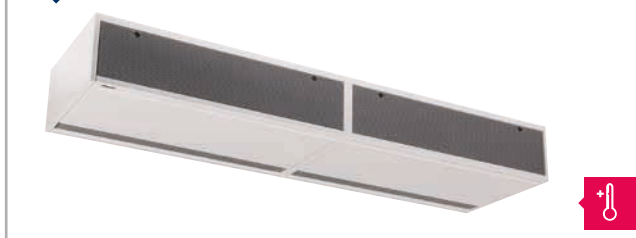
- 1 UniLine
- 2 Cassette UniLine
- 3 Tandem 300 / 365
- 4 Tandem ceiling cassette
- 5 ProtecTor



# Door Air Curtains

## Overview

### UniLine



### Cassette UniLine



#### Article Group 2.53

##### Features

- ▶ value-for-money design
- ▶ unit and casing form a compact unit
- ▶ with Silent AutoMotion for low sound emissions
- ▶ AC or EC tangential fans
- ▶ BMS interface

##### Properties

#### Heat output <sup>1)</sup>

- ▶ 3.4 – 44.2 kW

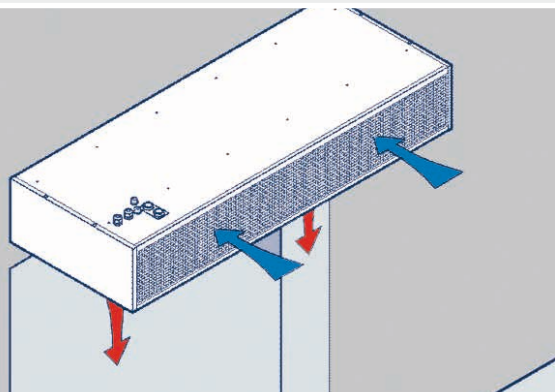
#### Air volume

- ▶ 290 – 5,330 m<sup>3</sup>/h

#### Max. discharge height <sup>2)</sup>

- ▶ 2.3 – 3.0 m

##### Operation



##### Applications

- ▶ DIY stores
- ▶ supermarkets
- ▶ all kinds of retail outlets

#### Article Group 2.53

- ▶ value-for-money design
- ▶ specifically designed for ceiling grids
- ▶ whisper-quiet AC or EC tangential fans
- ▶ BMS interface
- ▶ with Silent AutoMotion for lower noise emissions

#### Heat output <sup>1)</sup>

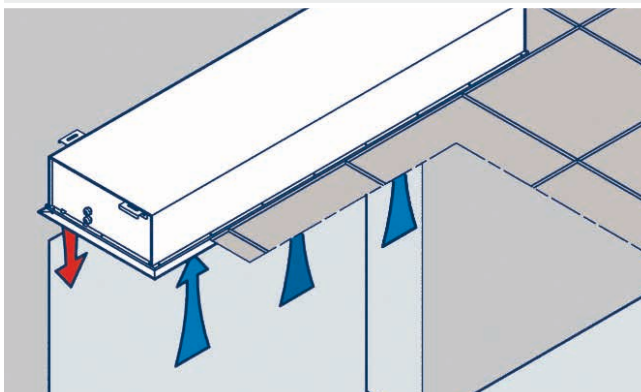
- ▶ 3.4 – 33.9 kW

#### Air volume

- ▶ 290 – 4,000 m<sup>3</sup>/h

#### Max. discharge height <sup>2)</sup>

- ▶ 2.3 – 3.0 m





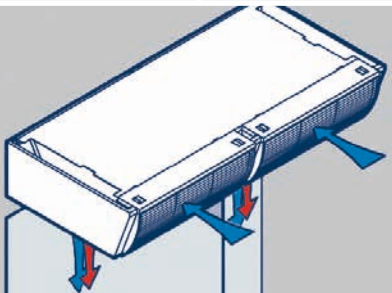
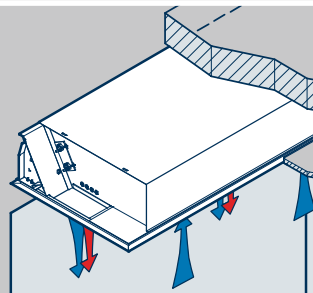
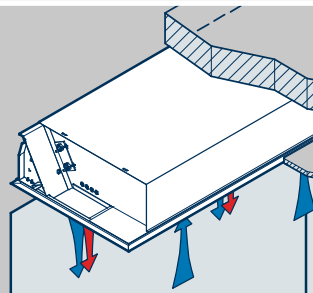
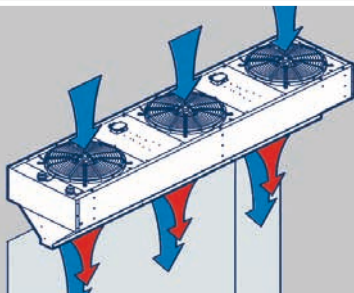


- ▶ DIY stores
- ▶ supermarkets
- ▶ all kinds of retail outlets
- ▶ educational buildings

<sup>1)</sup> LPHW 75/65 °C and EAT = 20 °C

<sup>2)</sup> at low to medium pressure, requirements and conditions



Tandem 300		Tandem 365		Tandem ceiling cassette		ProtecTor	
							
Article Group 2.51		Article Group 2.52		Article Group 2.52		Article Group 2.55	
Features		Features		Features		Features	
<ul style="list-style-type: none"><li>▶ for controlled screening of cold air across open doors</li><li>▶ up to 38 % energy savings through the patented separation of ambient and warm air streams</li><li>▶ EC tangential fans</li><li>▶ KaControl system or electromechanical control possible</li><li>▶ specifically designed for suspended ceilings</li></ul>		<ul style="list-style-type: none"><li>▶ one single fan group for ambient air stream and warm air stream, for more effective, energy-efficient screening of cold air (approx. 38 % energy savings)</li><li>▶ energy-efficient EC fans</li><li>▶ BMS interface</li><li>▶ specifically designed for suspended ceilings</li></ul>		<ul style="list-style-type: none"><li>▶ one single fan group for ambient air stream and warm air stream, for more effective, energy-efficient screening of cold air (approx. 38 % energy savings)</li><li>▶ energy-efficient EC fans</li><li>▶ BMS interface</li><li>▶ specifically designed for suspended ceilings</li></ul>		<ul style="list-style-type: none"><li>▶ unique: this industrial door air curtain operates with an ambient air and heated air stream and saves up to 38 % energy!</li><li>▶ dynamic, patented air distribution between ambient air stream and warm air stream</li><li>▶ whisper-quiet AC or EC fans</li><li>▶ BMS interface</li></ul>	
Properties		Properties		Properties		Properties	
<b>Heat output</b> <sup>1)</sup> ▶ 4.1 – 30.1 kW <b>Air volume</b> ▶ 700 – 5,810 m³/h <b>Max. discharge height</b> <sup>2)</sup> ▶ 2.7 – 3.2 m		<b>Heat output</b> <sup>1)</sup> ▶ 7.1 – 41.3 kW <b>Air volume</b> ▶ 1.090 – 8.480 m³/h <b>Max. discharge height</b> <sup>2)</sup> ▶ 3.2 – 4.0 m		<b>Heat output</b> <sup>1)</sup> ▶ 4.1 – 30.1 kW <b>Air volume</b> ▶ 700 – 5.810 m³/h <b>Max. discharge height</b> <sup>2)</sup> ▶ 2.7 – 3.2 m		<b>Heat output</b> <sup>1)</sup> ▶ 13.5 – 167.2 kW <b>Air volume</b> ▶ 1,700 – 35,800 m³/h <b>Max. discharge height and/or discharge width</b> <sup>2)</sup> ▶ 3.5 – 4.5 m <b>Unit lengths</b> ▶ 2.0 – 5.0 m	
Operation		Operation		Operation		Operation	
							
Applications		Applications		Applications		Applications	
<ul style="list-style-type: none"><li>▶ all kinds of retail outlets, department stores</li><li>▶ supermarkets, offices</li><li>▶ restaurants and hotels</li><li>▶ public buildings</li></ul>		<ul style="list-style-type: none"><li>▶ all kinds of retail outlets, department stores</li><li>▶ supermarkets, offices</li><li>▶ restaurants and hotels</li><li>▶ public buildings</li><li>▶ energy saving applications</li></ul>		<ul style="list-style-type: none"><li>▶ all kinds of retail outlets, department stores</li><li>▶ supermarkets, offices</li><li>▶ restaurants and hotels</li><li>▶ public buildings</li><li>▶ energy saving applications</li></ul>		<ul style="list-style-type: none"><li>▶ industrial heating, ideal across the entrances to industrial premises, workshops, warehouses etc.</li><li>▶ energy saving applications</li></ul>	

<sup>1)</sup> LPHW 75/65 °C and EAT = 20 °C

<sup>2)</sup> at low to medium pressure, requirements and conditions

# Door Air Curtains

At a glance



## Tandem 300 / 365

Ambient air stream and warm air stream with a single fan group.

## Tandem

Door air curtains with Tandem technology. Ambient air and heated air stream for effective cold air screening.



## ProtecTor

Door air curtain with ambient air and heated air streams for effective screening.



## ProtecTor

Coanda effect between the ambient air and heated air streams





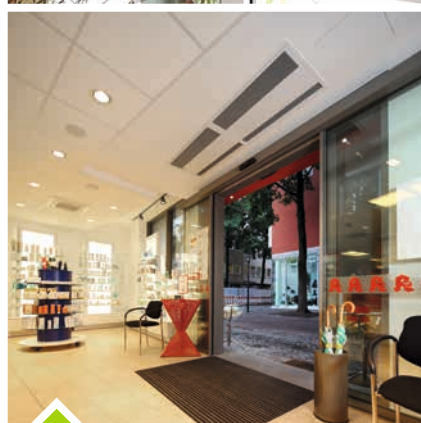


### UniLine

Water and electrical connections pass through the top of the casing.

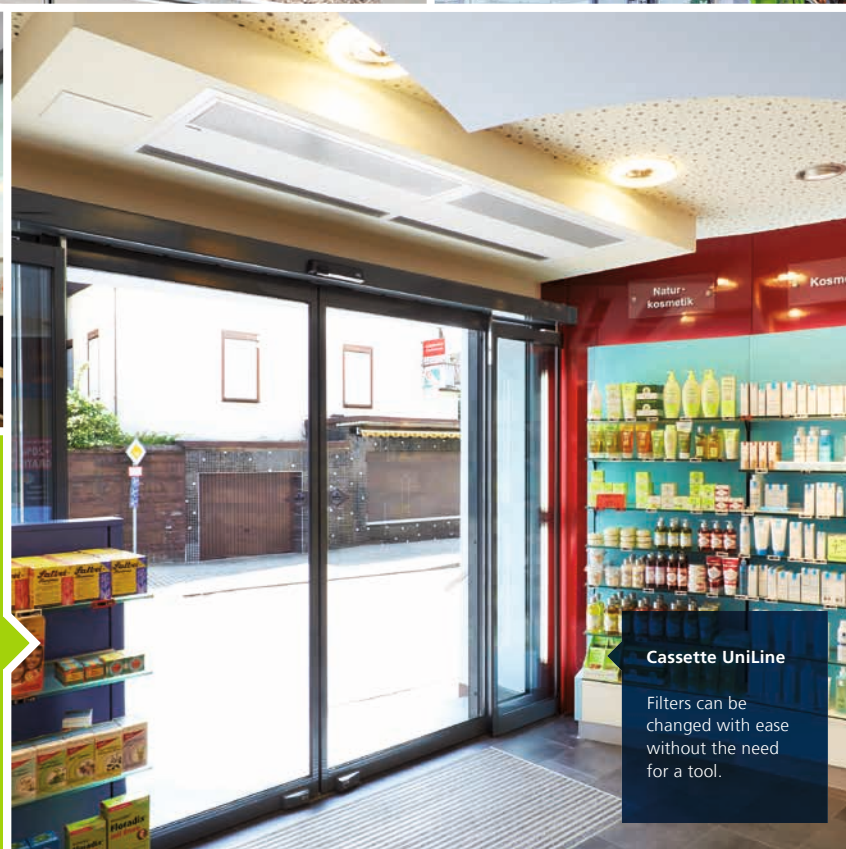
## UniLine

Door air curtain comes complete with casing.



## Cassette UniLine

Cassette door air curtains. For specific use in ceiling grids.



### Cassette UniLine

Filters can be changed with ease without the need for a tool.

# 5

## Unit Heaters



# Unit Heaters

Top-class performance



Top-level heating, cooling and ventilation is crucial in large expansive spaces.

Kampmann comes into its own with its wide range of unit heaters. Whether wall-mounted or ceiling-mounted units, with heat exchangers for water or steam or thermal oil, fired, recirculating air or mixed air – the large range of units provides the optimum solution for every possible application.

Unit heaters are particularly suitable for optimum, decentralised heating and ventilation of the following types of building:

- ▶ production halls
- ▶ warehouses
- ▶ industrial or commercial workshops
- ▶ retail stores
- ▶ greenhouses
- ▶ buildings with connection to district heating systems or with high temperature differences (barracks, etc.)
- ▶ areas at risk of explosion
- ▶ buildings with steam heating systems

**EC technology:** The unit heaters TOP and Ultra are now also available with energy-efficient EC technology.

## Overview



- 1 TIP
- 2 TOP
- 3 Ultra



# Unit Heaters

## Overview

### TIP



### TOP



#### Properties

#### Article Group 1.57

##### Casing

- ▶ fully manufactured from galvanised sheet steel

##### Fan

- ▶ 2-stage, three-phase sickle blade whisper-quiet fan, 400 V/50 Hz
- ▶ 1-stage, AC-sickle blade, whisper-quiet 230 V/50 Hz

##### Heat exchanger

- ▶ copper/aluminium
- ▶ suitable for LTHW

##### Installation options

- ▶ wall- or ceiling-mounted

#### Equipment

- ▶ simple attachment of discharge-side accessories, like the two-row louver and the four-way diffuser

#### Applications

- ▶ production plants, workshops and assembly halls
- ▶ industrial and trade workshops

#### Article Group 1.53

##### Casing

- ▶ fully manufactured from galvanised sheet steel

##### Fan

- ▶ 1-stage, AC-sickle blade, whisper-quiet 230 V/50 Hz
- ▶ 2-stage, three-phase sickle blade, whisper-quiet 400 V/50 Hz
- ▶ 2-stage, three-phase wide blade 400 V/50 Hz, explosion-proof
- ▶ infinitely variable speed control
- ▶ EC fans

##### Heat exchanger

- ▶ copper/aluminium (suitable for LTHW)
- ▶ galvanised steel (suitable for LTHW)
- ▶ galvanised steel for use with steam
- ▶ galvanised steel, cross-flow

##### Installation options

- ▶ wall- or ceiling-mounted

- ▶ extensive accessories Modular system for simple adaptation to technical and structural requirements
- ▶ KaControl system or electromechanical control possible

- ▶ production halls, warehouses
- ▶ buildings with connections to district heating systems or with high temperature spreads
- ▶ areas at risk of explosion
- ▶ buildings with steam heating systems



### Article Group 1.54

#### Properties

##### Casing

- ▶ contemporary housing
- ▶ with 6-sided air outlets, each with six pre-set defined adjustment angles

##### Fan

- ▶ axial fans, sickle blade, 1 or 2-stage
- ▶ diagonal whisper-quiet fans with increased pressure with Series 97 for mixed air/fresh air
- ▶ infinitely variable speed control
- ▶ EC fans

##### Heat exchanger

- ▶ circular design for maximum output from minimal dimensions
- ▶ copper pipes with aluminium fins
- ▶ suitable for LTHW

##### Installation options

- ▶ ceiling installation

#### Equipment

- ▶ all units in the range come complete with fitted bracket set and are available with a range of controls
- ▶ KaControl system or electromechanical control possible

#### Applications

- ▶ supermarkets, retail stores or exhibitions
- ▶ for recirculating and mixed air operation in heating or cooling mode with an identical appearance

# Unit Heaters

At a glance

## Ultra

Ceiling unit for heating, cooling, ventilation within architectural interiors. Meets the most exacting demands in terms of design and comfort.



### Ultra

Hexagonal housing design for optimum air distribution when heating and cooling.



## TIP

Wall- and ceiling-mounted unit heater. The simple solution.

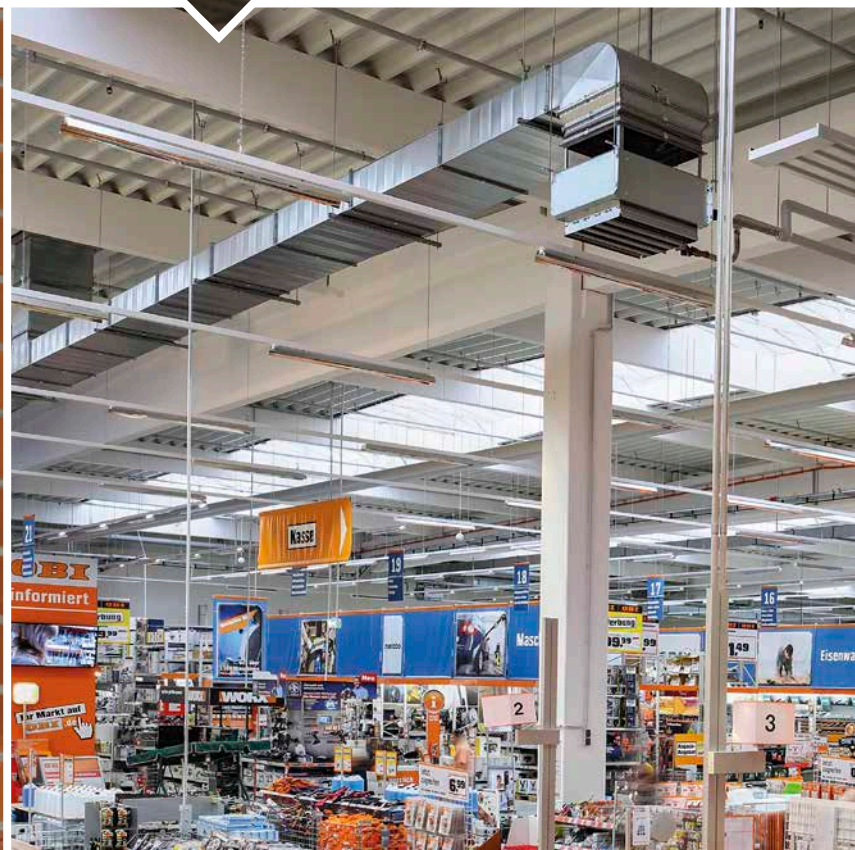
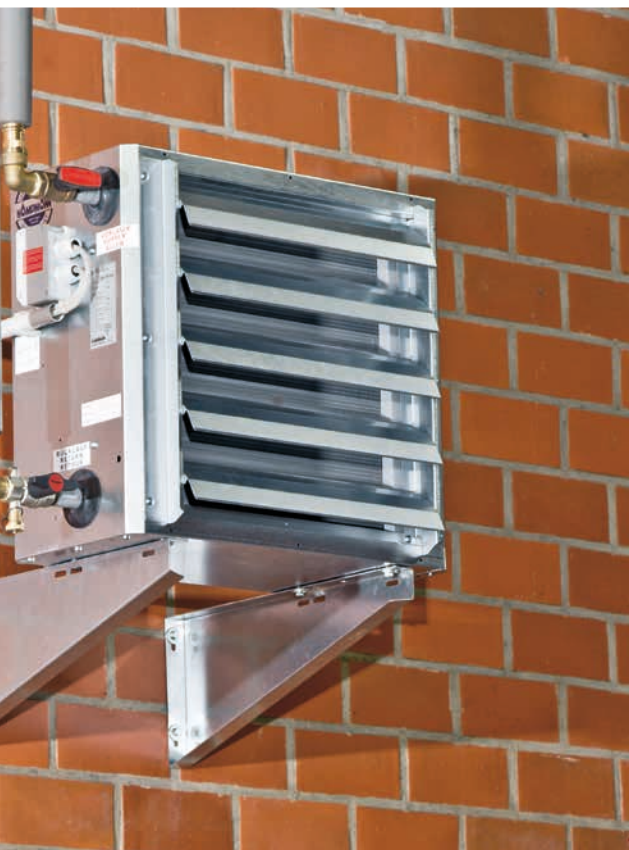






**TOP**

Wall- and ceiling-mounted unit heater. The warm air solution for almost all requirements.



# 6

## Fan Coil Units



# Fan Coil Units

Decentralised heating and cooling for almost every requirement



Fan coil units are high-quality decentralised units for heating and cooling and are used in many different kinds of buildings. They are predominantly used in hotels and in offices and public buildings, but can equally well be used in other commercial buildings. Their extensive range, comprising traditional fan convectors, cassette units, wall-mounted units and the innovative KaDeck system, offer an appropriate solution for almost every requirement.

Fan coil units run primarily with LPHW or CHW and thus combine an energy distribution free of refrigerant with individual heat and cooling transfer in the room. A range of different designs offers maximum flexibility. Alongside wall- and ceiling-mounted units with designer casings, there are also models for installation in suspended ceilings or under the ceiling.

The outstanding workmanship of the components, sound-optimised housings and fans, as well as the low-maintenance construction of the fan coil units, combine to provide a high degree of safety for operators and users alike.

Optimum control options and their ease of use make fan coil units an efficient element in every heating and cooling system. Connection to an on-site BMS is also possible. The KaControl automation system has proved itself to be an affordable and reliable solution for these cases.

## Overview



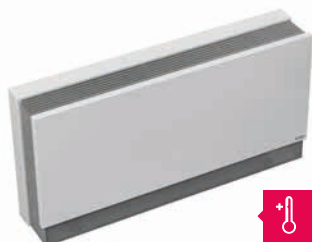
- 1 Venkon
- 2 Venkon XL
- 3 KaDeck
- 4 KaCool D AF
- 5 KaCool W



# Fan Coil Units

## Overview

### Venkon



### KaDeck



#### Article Group 1.48

##### Properties

##### Casing

- ▶ flexible combination by basic unit and casing
- ▶ progressive performance line
- ▶ easy to install, accessories factory fitted

##### Fan

- ▶ stage-controlled AC fans
- ▶ infinitely variable EC fans

##### Coil

- ▶ 2- or 4-pipe unit

##### Features

##### Heating

- ▶ LPHW

##### Cooling

- ▶ CHW

##### Cooling output<sup>1)</sup>

- ▶ 0,8 – 10,99 kW

##### Heat output<sup>2)</sup>

- ▶ 1,58 – 26,18 kW

##### Control options

- ▶ EC variation: KaControl or electromechanical
- ▶ AC variation: electromechanical

##### Installation options

- ▶ wall-mounted free-standing or ceiling mounted

##### Variations

- ▶ available in four sizes

##### Accessories

- ▶ 2, 3-way and pressure independent valve kit
- ▶ possible fresh air supply
- ▶ pre-installed condensate pump and condensate tray

#### Article Group 3.26

##### Casing

- ▶ optimised model for dry or wet cooling
- ▶ discreet and elegant designer panel
- ▶ simple maintenance, no requirement for additional access openings, no visible latches
- ▶ all visible parts powder-coated, different colours on request

##### Fan

- ▶ infinitely adjustable EC fans

##### Coil

- ▶ 2-pipe unit

##### Heating

- ▶ LPHW

##### Cooling

- ▶ CHW

##### Cooling output<sup>1)</sup>

- ▶ 579 – 3,114 W (wet cooling)

##### Heat output<sup>2)</sup>

- ▶ 743 – 3,755 W

##### Control options

- ▶ with optional dew point monitoring

##### Installation options

- ▶ within suspended ceiling, below the ceiling, at the perimeter or in the centre of the room

##### Variations

- ▶ available in four versions (dry or wet cooling)

##### Accessories

- ▶ flexible waterside connections optional
- ▶ possible primary air supply
- ▶ optional dew point monitor sensor

<sup>1)</sup> with CHW 7/12 °C, EAT = 27 °C, 48 % relative humidity

<sup>2)</sup> with LPHW 75/65 °C, RT = 20 °C



## At a glance

### Venkon XL



### KaCool D AF



### KaCool W



#### Article Group 3.48

##### Properties

##### Casing

- ▶ slimline design for installation in false ceilings
- ▶ sheet steel housing to reduce noise emissions
- ▶ large, removable service hatch for ease of maintenance

##### Fan

- ▶ infinitely variable EC fans

##### Coil

- ▶ 2- or 4-pipe unit

##### Features

##### Heating

- ▶ LPHW

##### Cooling

- ▶ CHW

##### Cooling output <sup>1)</sup>

- ▶ 1.23 – 18.29 kW

##### Heat output <sup>2)</sup>

- ▶ 3.49 – 51.29 kW

##### Control options

- ▶ KaControl or electromechanical

##### Installation options

- ▶ ceiling installation

##### Variations

- ▶ available in four sizes
- ▶ connection on left or right side
- ▶ available with or without plenum box

#### Article Group 3.25

##### Casing

- ▶ AtmosFeel for maximum comfort
- ▶ Optional primary air connection
- ▶ ABS panel with AF (AtmosFeel) in RAL 9010 (pure white)

##### Fan

- ▶ stage-controlled AC fans
- ▶ infinitely variable EC fans

##### Coil

- ▶ 2- or 4-pipe unit

##### Heating <sup>1)</sup>

- ▶ LPHW

##### Cooling <sup>2)</sup>

- ▶ CHW

##### Cooling output <sup>1)</sup>

- ▶ 1.94 – 11.77 kW

##### Heat output <sup>2)</sup>

- ▶ 1.91 – 22.66 kW

##### Control options

- ▶ EC variation: KaControl or electromechanical, infrared remote control
- ▶ AC variation: electromechanical

##### Installation options

- ▶ ceiling installation

##### Variations

- ▶ available in seven sizes

##### Accessories

- ▶ 2- or 3-way valves
- ▶ Optionally available with infrared remote control

#### Article Group 3.24

##### Casing

- ▶ energy-saving EC fan
- ▶ integrated 3-way valve
- ▶ elegant and discreet
- ▶ easy to install

##### Fan

- ▶ stage-controlled AC fans
- ▶ infinitely variable EC fans

##### Coil

- ▶ 2-pipe unit

##### Heating <sup>1)</sup>

- ▶ LPHW

##### Cooling <sup>3)</sup>

- ▶ CHW

##### Cooling output <sup>1)</sup>

- ▶ 680 – 4,810 W

##### Heat output <sup>2)</sup>

- ▶ 990 – 5970 W

##### Control options

- ▶ electromechanical or infrared remote control

##### Installation options

- ▶ wall-mounted

##### Variations

- ▶ available in four sizes

##### Accessories

- ▶ condensate pump can be fitted as an accessory below the wall-mounted unit

<sup>1)</sup> with CHW 7/12 °C, EAT = 27 °C, 48 % relative humidity

<sup>2)</sup> with LPHW 70/60 °C, EAT = 20 °C

<sup>3)</sup> with LPHW 65/45 °C, EAT = 20 °C

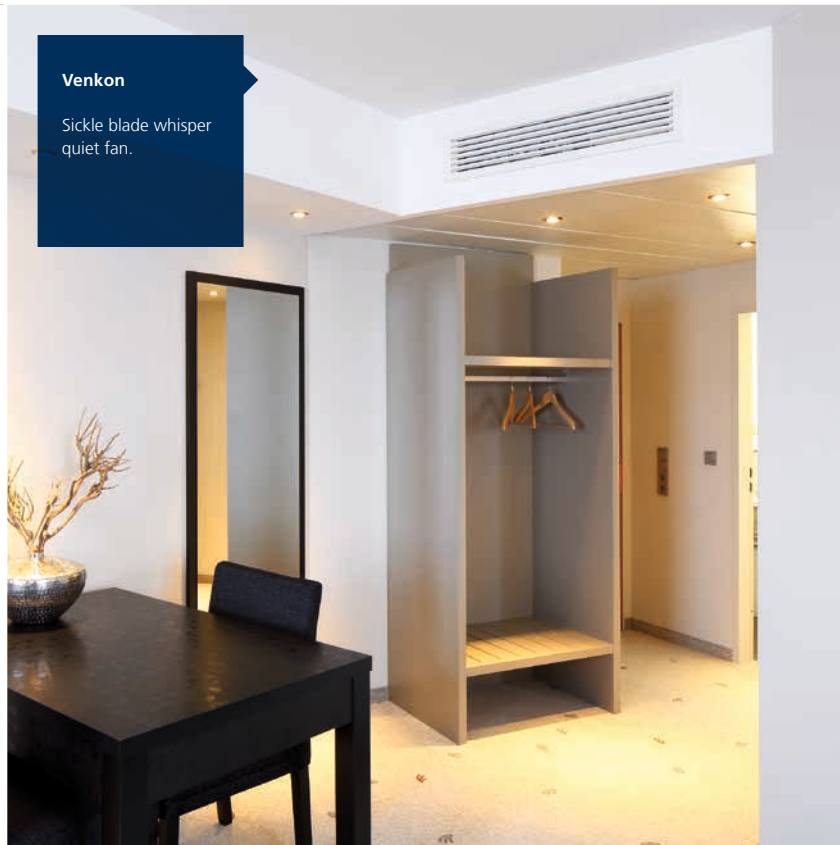
# Fan Coil Units

At a glance



## Venkon

Sickle blade whisper quiet fan.



## Venkon

Fan convectors, FCU, recirculating air. Heating and cooling with maximum comfort.



## KaCool W

Wall-mounted room heating and cooling unit. Attractive and discreet on your wall.







**KaCool D AF**  
Minimalist cassette design, optional with energy saving EC fans.



## KaCool D AF

Ceiling cassette used as room cooler and room heater with a discreet design.

## KaDeck

Versatile ceiling-mounted air conditioning system for use in commercial buildings.



# Kampmann. Genau mein Klima.







Company founder Heinrich Kampmann and his son, the present Managing Director Hendrik Kampmann.



# Research & Development Centre



The company's own Research & Development Centre is one of the most modern of its kind.

**The R & D Centre (FEC) enables the company to**

- ▶ develop new standard products
- ▶ continually improve its products
- ▶ undertake applied research
- ▶ provide detailed analysis of the units to be tested
- ▶ undertake standard tests.

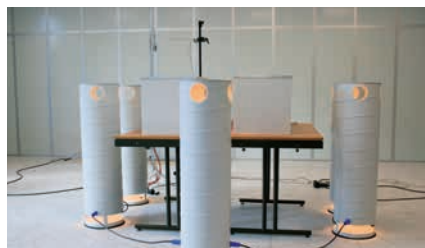
Major investment requires performance that can be tested. That is what we offer our customers in our in-house R & D Centre (FEC) adjacent to our headquarters in Lingen. Built in June 2008, with an investment of approx. € 4 million, it is one of the most modern facilities of its type in Europe.

The multifunctional design of the building with a floor area of approx. 1,200 m<sup>2</sup> houses an air flow laboratory, a multi-purpose laboratory and a sound chamber.

The technically state of the art fit-out of the laboratory, which also houses a test chamber, two climate simulation units and a climate chamber, is designed to meet customers' ever-changing demands:

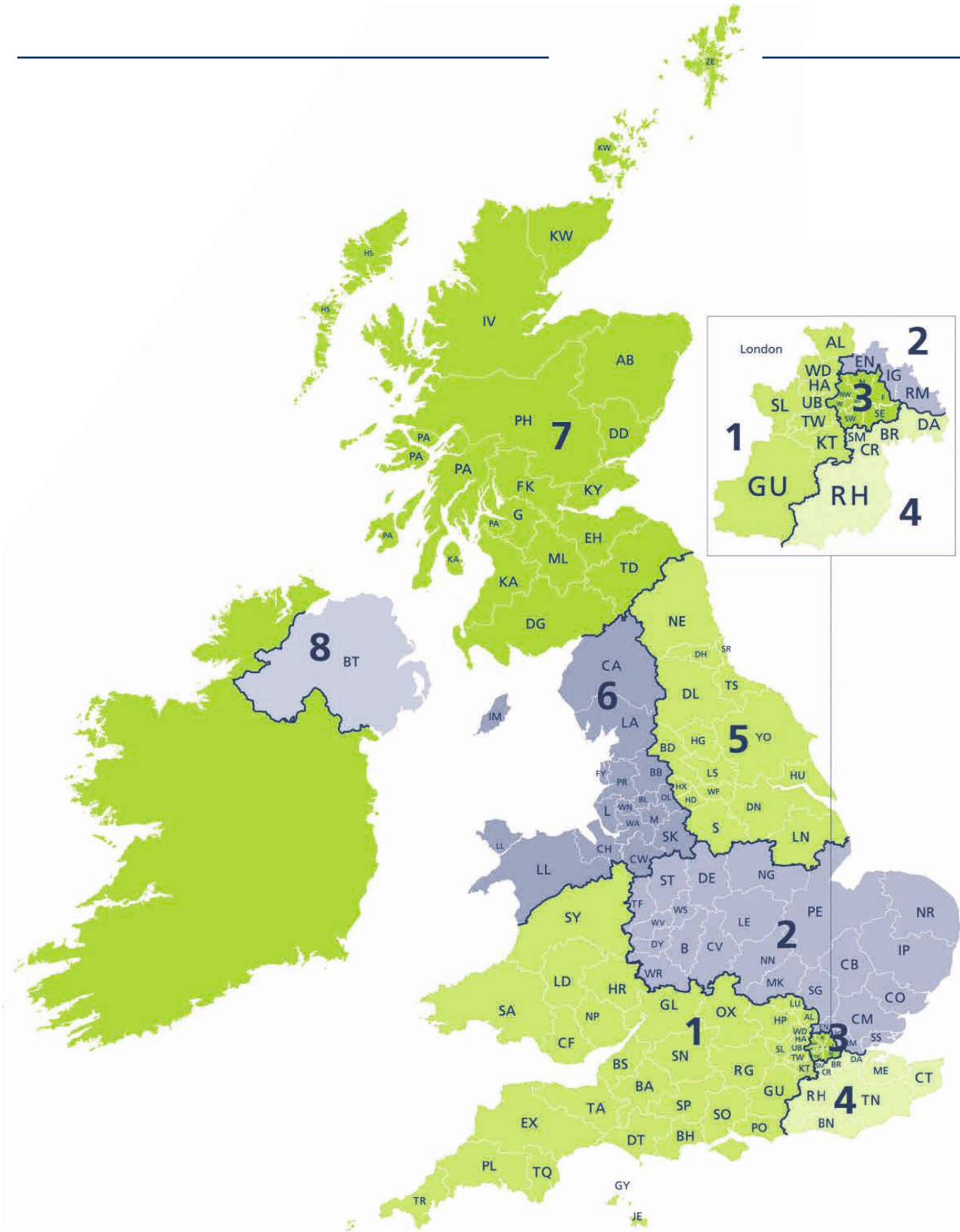
- ▶ functional demonstration and presentation of products
- ▶ product testing in real installation situations
- ▶ reliable technical data and proof of outputs
- ▶ continuous new developments and product enhancements.

We work closely with leading scientific research institutions, universities and test laboratories. The focus of our work is on sustainable products that operate energy-efficiently and have a long service life, with adaptable operation and manufactured using recyclable materials.



The company's own Research & Development Centre (FEC) at its headquarters in Lingen (Ems), Germany.

# Sales areas





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