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Overview

Products

For Heating, Cooling and Ventilation

► **Overview**

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Functions

-  Heating
-  Cooling
-  Ventilation

1 Trench Heating



Trench Heating

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 heating 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 high-performance trench heating 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 heating 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



- 1 Katherm NK
- 2 Katherm QK
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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.

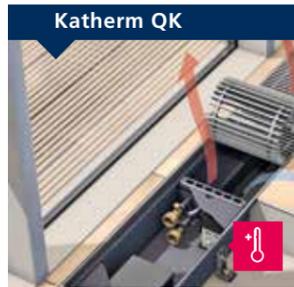
To make sure, the products you selected are in line with the BS EN 16430, the actual testing standard for trench heating and trench cooling systems, please ask the manufacturer for the CE Declaration of conformity for the product. The BS EN 16430 should be mentioned in this document, if the units are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



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

Trench Heating

Overview



	Article Group 1.45	Article Group 1.42	Article Group 4.42	Article Group 1.43
Operation	<ul style="list-style-type: none"> ▶ natural convection ▶ heating with LPHW 	<ul style="list-style-type: none"> ▶ cross-flow fan-assisted convection ▶ heating with LPHW ▶ EC fan ▶ BMS interface 	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ EC cross-flow fan convection ▶ BMS interface 	<ul style="list-style-type: none"> ▶ cross-flow fan-assisted convection ▶ heating with LPHW ▶ cooling with CHW ▶ EC fan ▶ 2 or 4-pipe system ▶ BMS interface
Properties	<p>Heat output¹⁾ 78–5,590 W</p> <p>Trench height 92, 120, 150, 200 mm</p> <p>Trench length 800–5,000 mm</p> <p>Trench width 137, 182, 232, 300, 380 mm</p>	<p>Heat output²⁾ 359–4,961 W</p> <p>Trench height 112 mm</p> <p>Trench length 1,000–3,200 mm</p> <p>Trench width 182, 207, 232 mm</p>	<p>Heat output²⁾ 539–2,461 W</p> <p>Trench height 70 mm</p> <p>Trench length 900–2,700 mm</p> <p>Trench width 165 mm</p>	<p>Heat output²⁾ 923–9,223 W</p> <p>Cooling output³⁾ 230–1,568 W</p> <p>Trench height 130, 160 mm</p> <p>Trench length 915 (height 130 mm), 950 (height 160 mm), 1,200, 1,700, 2,000, 2,500, 3,000 mm</p> <p>Trench width 320 (height 130 mm)/ 290 (height 160 mm)</p>
Product features	<ul style="list-style-type: none"> ▶ performance-optimised ▶ shallower depths combined with high outputs ▶ fully adaptable to the building contours ▶ accessory Katherm modular system 	<ul style="list-style-type: none"> ▶ whisper-quiet EC technology ▶ shallower depths and high outputs ▶ fully adaptable to the building contours ▶ accessory Katherm modular system 	<ul style="list-style-type: none"> ▶ highly reduced dimensions ▶ with the usual whisper-quiet EC technology and high outputs ▶ new FineLine grille 	<ul style="list-style-type: none"> ▶ heating and cooling available as a 2 and 4-pipe system ▶ optionally available with supply air connection ▶ EC fan, low noise, energy-efficient

	Article Group 1.41	Article Group 2.45	Article Group 2.42
Operation	<ul style="list-style-type: none"> ▶ targeted supply of conditioned air (displacement air) ▶ low-turbulence room ventilation with low discharge speed ▶ additional heating with LPHW 	<ul style="list-style-type: none"> ▶ heating with electric heating element ▶ natural convection ▶ fast heat-up ▶ virtually silent operation ▶ BMS interface 	<ul style="list-style-type: none"> ▶ heating with electrical element and fan convection ▶ EC tangential fans ▶ high heat output at low sound pressure level ▶ for full space heating ▶ BMS interface
Properties	<p>Heat output¹⁾ 381–801 W/m</p> <p>Trench height 130, 180, 230 mm</p> <p>Trench length project-related; minimum length 1,100 mm</p> <p>Trench width 272, 310, 340, 400, 420 mm</p>	<p>Heat output²⁾ 250–880 W</p> <p>Trench height 150 mm</p> <p>Trench length 750, 1,150, 1,550, 1,950 mm</p> <p>Trench width 207 mm</p>	<p>Heat output²⁾ 800–2,400 W</p> <p>Trench height 112 mm</p> <p>Trench length 825, 1,250, 1,700 mm</p> <p>Trench width 207 mm</p>
Product features	<ul style="list-style-type: none"> ▶ high-output convector for screening external glazing ▶ for the targeted supply of conditioned displacement air ▶ effective and low-turbulence stratified ventilation 	<ul style="list-style-type: none"> ▶ 2-stage safety switch ▶ integrated output control ▶ room thermostat or BMS control ▶ specially designed heating elements 	<ul style="list-style-type: none"> ▶ 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 ▶ fast warm-up of the room

¹⁾ with LPHW 75/65 °C, RT = 20 °C
²⁾ with LPHW 75/65 °C, RT = 20 °C, at 60% fan speed
³⁾ with CHW 6/12 °C, RT = 24 °C, 50% relative humidity

¹⁾ with LPHW 75/65 °C, EAT = 20 °C, at 60% fan speed | ²⁾ Max. heat output | ³⁾ with LPHW 75/65 °C, t_{outdoor} = -12 °C, outdoor air mode
⁴⁾ with LPHW 75/65 °C, t_{indoor} = 22 °C, recirculating air mode | ⁵⁾ with LPHW 75/65 °C, t_{outdoor} = -12 °C, t_{indoor} = 22 °C, outdoor/recirculating air mode; secondary air rate 80 m³/h
⁶⁾ with CHW 17/19 °C, t_{outdoor} = 32 °C, 40% relative humidity; outdoor air mode | ⁷⁾ with CHW 17/19 °C, t_{indoor} = 26 °C, 50% relative humidity; recirculating air mode
⁸⁾ with CHW 17/19 °C, t_{outdoor} = 32 °C, 40% relative humidity; t_{indoor} = 26 °C, 50% relative humidity, outdoor/recirculating air mode; secondary air rate 80 m³/h

Trench Heating
Perimeter Heating
Design Grilles
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Unit Heaters
Fan Coil Units

Trench Heating

At a glance



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



QK
Whisper-quiet EC technology. Made to measure.

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

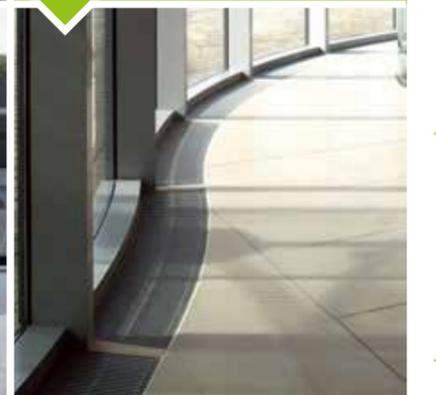
QE
EC tangential fan convection with electrical heating element.



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



QK nano
Top performance from smallest dimensions, with filigree FineLine grille.

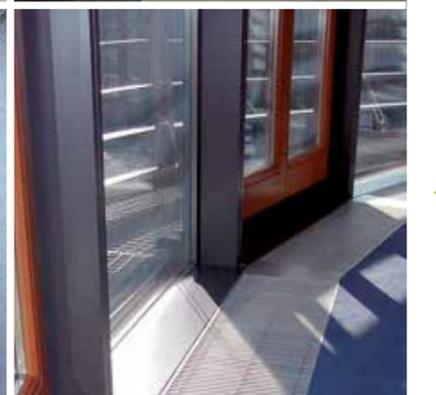
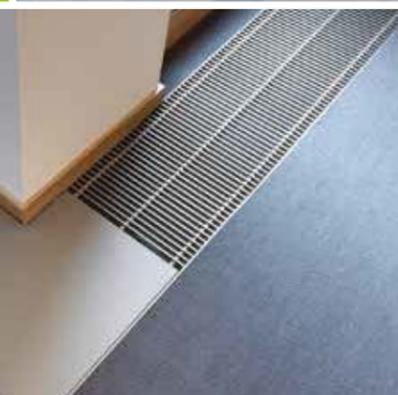


NK
Minimal dimensions, maximum output.

NE
With electrical heating element.



NE
Natural convection trench heating.



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



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.

Baseboard QK and Baseboard HK fan-assisted convectors with high capacity copper/aluminium coils are the ideal solution where a traditional fan coil unit does not fit. Whereas Baseboard QK is specifically designed for efficient space-heating with ultra-low geothermal heating temperatures, Baseboard HK is the discreet baseboard solution for both heating & cooling.

Overview



2

Perimeter Heating



Perimeter Heating

Overview



Operation	Article Group 1.26
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ natural convection
	Heat output ³⁾ 222–3,676 W
	Height 80, 130 mm Length 600–2,600 mm Depth 130, 180, 230 mm
	Air outlet <ul style="list-style-type: none"> ▶ linear grille with C-shaped profile
Properties	Heat output ³⁾ 176–6,768 W Height 250, 400, 550, 700 mm Length 600–2,600 mm (2,400 mm to depth 220 mm) Depth 70, 120, 170, 220 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile ▶ linear grille with C-shaped profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ functional, value-for-money model for the visually appealing use of convectors, for instance for installation along the façade of the building ▶ free-standing installation
	Applications <ul style="list-style-type: none"> ▶ for the encased use of convectors ▶ available in two different design models ▶ wall-mounted

Operation	Article Group 1.34
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ EC cross-flow fan convection ▶ BMS interface
	Heat output ³⁾ 321–3,237 W
	Height 150 mm Length 800–2,000 mm Depth 160 mm
	Air outlet <ul style="list-style-type: none"> ▶ linear grille ▶ façade-side air outlet
Properties	Heat output ²⁾ 293–1817 W Height 215 mm Length 850, 1,050, 1,250, 1,450, 1,650, 1,800, 2,000, 2,200, 2,400, 2,600, 2,800, 3,000 mm Depth 100 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ suitable for commercial and residential buildings ▶ for use with ultra-low water temperatures ▶ ideal where ceiling space is not available ▶ low-profile unit for discreet installation
	Applications <ul style="list-style-type: none"> ▶ for residential use, commercial refurbishment or new-build applications ▶ discreet convector for heating and cooling where FCUs do not fit ▶ cooling-only, heating-only or heating/cooling systems

Operation	Article Group 1.10
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ natural convection
	Heat output ¹⁾ 149–16,023 W (H _v = 500 mm)
	Height 70, 150 mm Length 500–5,000 mm Depth 50, 100, 150, 200, 250, 300 mm
	Air outlet <ul style="list-style-type: none"> ▶ individual air outlet
Properties	Heat output ²⁾ 322–2051 W Cooling output ³⁾ 234–1436 W Height 170 mm Length 1,000, 1,200, 1,700, 2,000, 2,500, 2,600, 3,000 mm Depth 235 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ for residential use, commercial refurbishment or new-build applications ▶ ideal for installation in front of full-height glazing ▶ free-standing installation ▶ new FineLine grille
	Applications <ul style="list-style-type: none"> ▶ for use in convector casings or for installation in a trench: the professional solution!



Operation	Article Group 1.32
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ cross-flow fan-assisted convection ▶ EC fan ▶ BMS interface
	Heat output ²⁾ 293–1817 W
	Height 215 mm Length 850, 1,050, 1,250, 1,450, 1,650, 1,800, 2,000, 2,200, 2,400, 2,600, 2,800, 3,000 mm Depth 100 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
Properties	Heat output ²⁾ 322–2051 W Cooling output ³⁾ 234–1436 W Height 170 mm Length 1,000, 1,200, 1,700, 2,000, 2,500, 2,600, 3,000 mm Depth 235 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ suitable for commercial and residential buildings ▶ for use with ultra-low water temperatures ▶ ideal where ceiling space is not available ▶ low-profile unit for discreet installation
	Applications <ul style="list-style-type: none"> ▶ for residential use, commercial refurbishment or new-build applications ▶ discreet convector for heating and cooling where FCUs do not fit ▶ cooling-only, heating-only or heating/cooling systems

Operation	Article Group 1.33
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ cross-flow fan-assisted convection ▶ wet cooling ▶ EC fan ▶ 2- or 4-pipe system ▶ BMS interface
	Heat output ²⁾ 322–2051 W Cooling output ³⁾ 234–1436 W
	Height 170 mm Length 1,000, 1,200, 1,700, 2,000, 2,500, 2,600, 3,000 mm Depth 235 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
Properties	Heat output ²⁾ 322–2051 W Cooling output ³⁾ 234–1436 W Height 170 mm Length 1,000, 1,200, 1,700, 2,000, 2,500, 2,600, 3,000 mm Depth 235 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ for residential use, commercial refurbishment or new-build applications ▶ ideal for installation in front of full-height glazing ▶ free-standing installation ▶ new FineLine grille
	Applications <ul style="list-style-type: none"> ▶ for use in convector casings or for installation in a trench: the professional solution!

Operation	Article Group 1.10
	<ul style="list-style-type: none"> ▶ heating with LPHW ▶ natural convection
	Heat output ¹⁾ 149–16,023 W (H _v = 500 mm)
	Height 70, 150 mm Length 500–5,000 mm Depth 50, 100, 150, 200, 250, 300 mm
	Air outlet <ul style="list-style-type: none"> ▶ individual air outlet
Properties	Heat output ²⁾ 293–1817 W Height 215 mm Length 850, 1,050, 1,250, 1,450, 1,650, 1,800, 2,000, 2,200, 2,400, 2,600, 2,800, 3,000 mm Depth 100 mm
	Air outlet <ul style="list-style-type: none"> ▶ perforated profile
	Colour <ul style="list-style-type: none"> ▶ standard RAL 9016, ▶ other colours on request
	Applications <ul style="list-style-type: none"> ▶ suitable for commercial and residential buildings ▶ for use with ultra-low water temperatures ▶ ideal where ceiling space is not available ▶ low-profile unit for discreet installation
	Applications <ul style="list-style-type: none"> ▶ for residential use, commercial refurbishment or new-build applications ▶ discreet convector for heating and cooling where FCUs do not fit ▶ cooling-only, heating-only or heating/cooling systems

¹⁾ with LPHW 45/40 °C, RT = 20 °C, sound pressure level 28 dB(A)

²⁾ with CHW 16/19 °C, RT = 27 °C (only dry cooling, without production of condensate), at a sound pressure level of 28 dB(A)

³⁾ with LPHW 75/65 °C, EAT = 20 °C

¹⁾ with LPHW 75/65 °C, RT = 20 °C

²⁾ with LPHW 49/38 °C, RT = 21 °C, at 80% fan speed

³⁾ with CHW 7/12 °C, RT = 24 °C, 50% relative humidity, at 80% fan speed

Perimeter Heating

At a glance



PowerKon + W
Wall-mounted convector for low water temperatures.



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



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.



Baseboard HK
Discreet baseboard solution for fan-assisted heating & cooling, where FCUs do not fit.



Baseboard QK
Low-profile high performance convector with EC fans for heating with ultra-low water temperatures.

3

Design Grilles



Design Grilles

For modern buildings



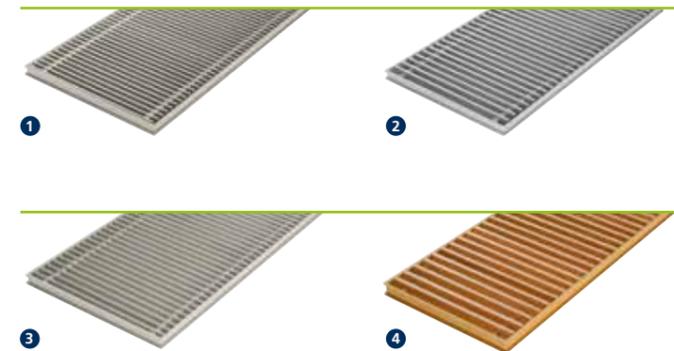
For some years now, the trend in modern architecture has been to actively incorporate required operating systems into the overall interior design. Kampmann design grilles take this development into account.

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 Standard Roll-up Grilles
- 3 Keyline Roll-up Grilles
- 4 Wooden Roll-up Grilles

Design Grilles

Overview



Colours *)	<p>Article Group 1.30</p> <p>Aluminium</p> <ul style="list-style-type: none"> ▶ 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) ▶ white coated <p>Stainless Steel</p> <ul style="list-style-type: none"> ▶ natural ▶ polished ▶ brushed <p>Brass</p> <ul style="list-style-type: none"> ▶ natural CuZn 44
	<p>Profiles</p> <ul style="list-style-type: none"> ▶ double T-profile in aluminium, brass bar spacing 9 mm ▶ double T-profile, stainless steel bar spacing 10.5 mm ▶ height: 18 mm <p>Free area</p> <ul style="list-style-type: none"> ▶ approx. 65 %
	<p>Special features</p> <ul style="list-style-type: none"> ▶ 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

<p>Article Group 1.30</p> <p>Aluminium</p> <ul style="list-style-type: none"> ▶ natural anodised E6/EV1 ▶ brass anodised E6/EV3 ▶ bronze anodised E6/C34 ▶ light bronze finish E6/C31
<p>Profiles</p> <ul style="list-style-type: none"> ▶ double T-profile bar spacing 12 mm, 17 mm ▶ height: 19.5 mm <p>Free area</p> <ul style="list-style-type: none"> ▶ approx. 60 % and 70 %
<p>Special features</p> <ul style="list-style-type: none"> ▶ the all-purpose and durable grille ▶ aluminium grilles are ultra-versatile and available with two different bar spacings

<p>Article Group 1.30</p> <p>Aluminium</p> <ul style="list-style-type: none"> ▶ natural anodised E6/EV1 ▶ brass anodised E6/EV3 ▶ bronze anodised E6/C34 ▶ light bronze finish E6/C31
<p>Profiles</p> <ul style="list-style-type: none"> ▶ droplet profile bar spacing 10.5 mm ▶ height: 18 mm <p>Free area</p> <ul style="list-style-type: none"> ▶ approx. 64 %
<p>Special features</p> <ul style="list-style-type: none"> ▶ perfect unit in terms of appearance, function and design: Keyline roll-up grilles create feature elements in contemporary spaces and sophisticated offices

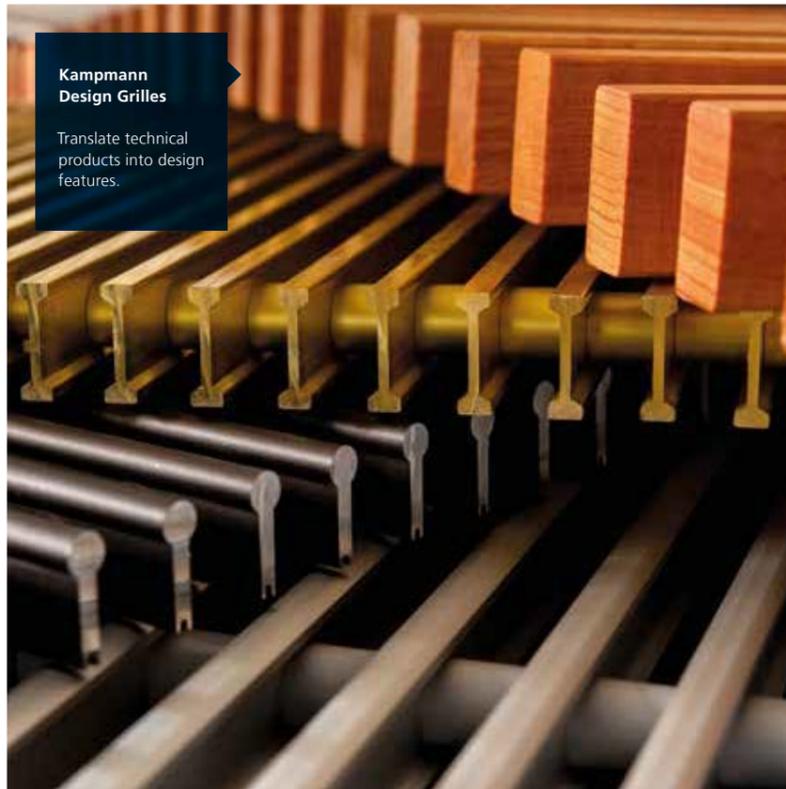
Colours *)	<p>Article Group 1.30</p> <p>Oak</p> <ul style="list-style-type: none"> ▶ natural lacquered ▶ oiled <p>Beech</p> <ul style="list-style-type: none"> ▶ natural lacquered ▶ oiled <p>Maple</p> <ul style="list-style-type: none"> ▶ natural lacquered ▶ oiled <p>Merbau</p> <ul style="list-style-type: none"> ▶ natural lacquered ▶ oiled
	<p>Profiles</p> <ul style="list-style-type: none"> ▶ solid wooden profile bar spacing 12, 15 mm ▶ height: 18 mm <p>Free area</p> <ul style="list-style-type: none"> ▶ approx. 60 %
	<p>Special features</p> <ul style="list-style-type: none"> ▶ wooden roll-up grilles accentuate a warm and homely atmosphere indoors

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

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

Design Grilles

At a glance



Kampmann Design Grilles
Translate technical products into design features.

Optiline Roll-up Grilles
Ultra-elegant narrow-spaced air outlets.



Keyline Roll-up Grilles
The design grilles.

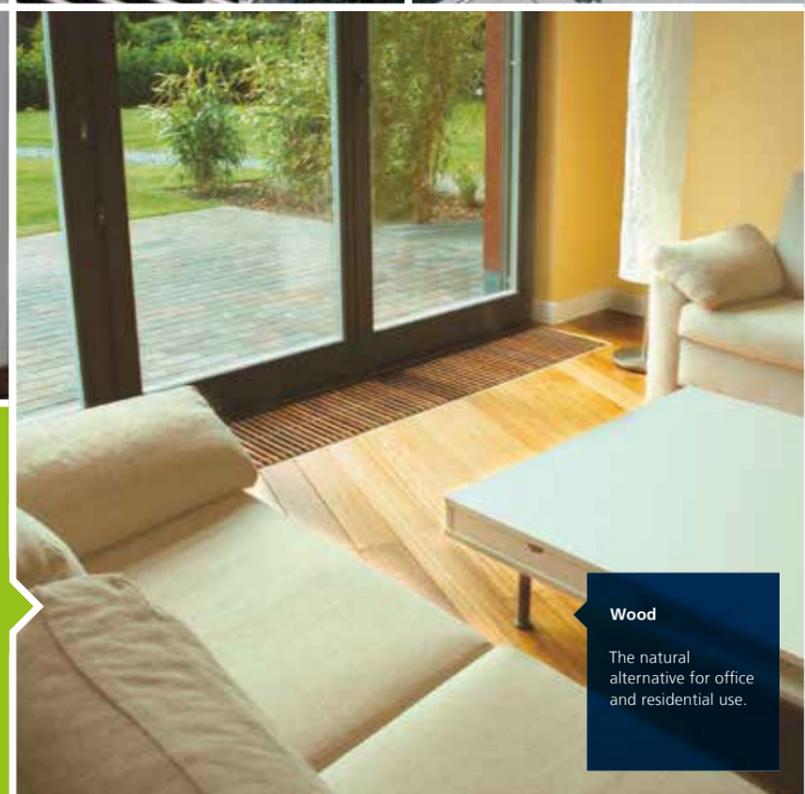


Aluminium, anodised
Solid underfoot for (almost) every application. Extensive range of colours.

Standard Roll-up Grilles
The standard floor grilles.



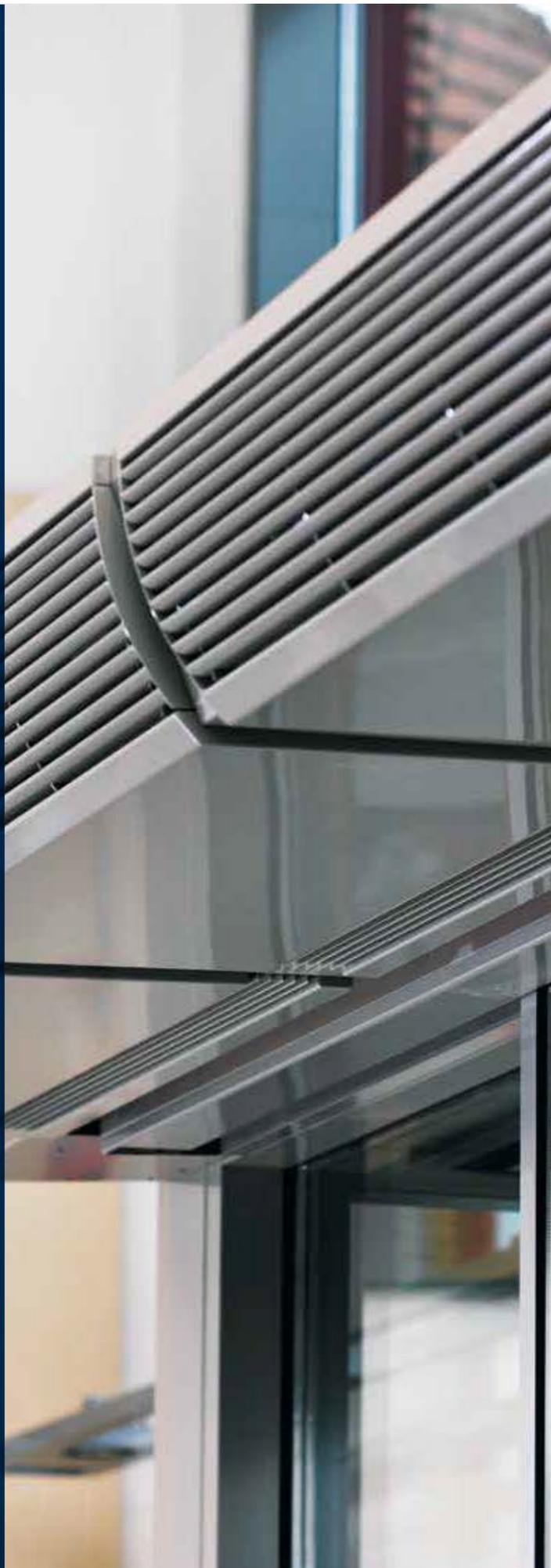
Wooden Roll-up Grilles
Warm and homely – decorative wooden covers.



Wood
The natural alternative for office and residential use.

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



Door Air Curtains

Overview



	UniLine	Cassette UniLine	Tandem 300
Article Group 2.53	Article Group 2.53	Article Group 2.53	Article Group 2.51
Features	<ul style="list-style-type: none"> ▶ 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 	<ul style="list-style-type: none"> ▶ value-for-money design ▶ unit and casing form a compact unit ▶ specifically designed for ceiling grids ▶ whisper-quiet AC or EC fans ▶ BMS interface 	<ul style="list-style-type: none"> ▶ 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) ▶ energy-efficient EC fans ▶ BMS interface
Properties	<p>Heat output ¹⁾</p> <ul style="list-style-type: none"> ▶ 6.7 – 44.2 kW <p>Air volume</p> <ul style="list-style-type: none"> ▶ 600 – 5,330 m³/h <p>Max. discharge height ²⁾</p> <ul style="list-style-type: none"> ▶ 2.3 – 3.0 m 	<p>Heat output ¹⁾</p> <ul style="list-style-type: none"> ▶ 6.7 – 33.9 kW <p>Air volume</p> <ul style="list-style-type: none"> ▶ 600 – 4,000 m³/h <p>Max. discharge height ²⁾</p> <ul style="list-style-type: none"> ▶ 2.3 – 3.0 m 	<p>Heat output ¹⁾</p> <ul style="list-style-type: none"> ▶ 4.1 – 30.1 kW <p>Air volume</p> <ul style="list-style-type: none"> ▶ 700 – 5,810 m³/h <p>Max. discharge height ²⁾</p> <ul style="list-style-type: none"> ▶ 2.7 – 3.2 m
Applications	<ul style="list-style-type: none"> ▶ DIY stores ▶ supermarkets ▶ all kinds of retail outlets 	<ul style="list-style-type: none"> ▶ DIY stores ▶ supermarkets ▶ all kinds of retail outlets ▶ educational buildings 	<ul style="list-style-type: none"> ▶ all kinds of retail outlets, department stores ▶ supermarkets, offices ▶ restaurants and hotels ▶ public buildings ▶ energy saving applications

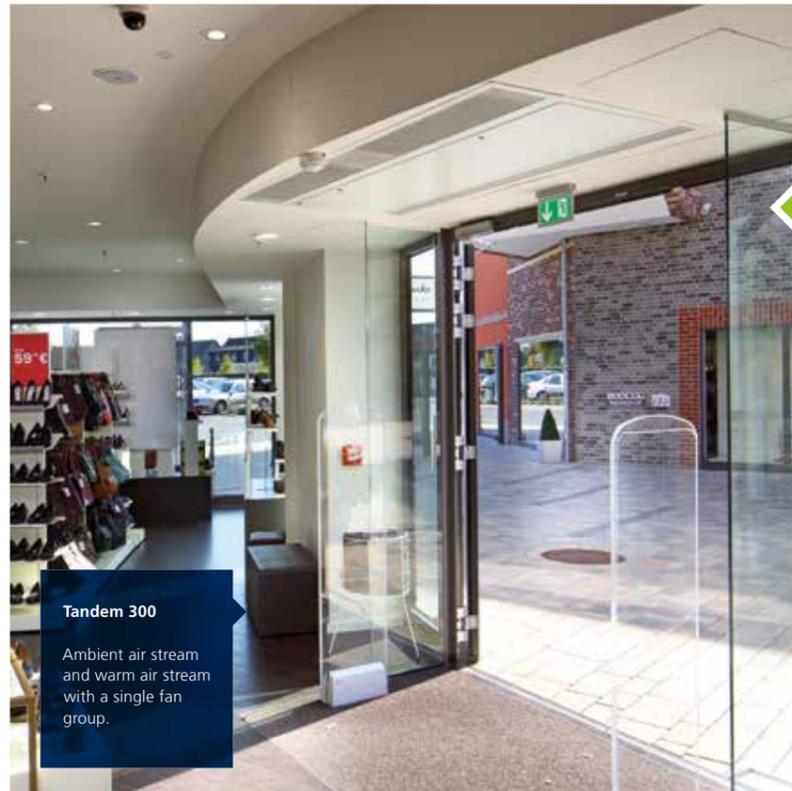


	Tandem 365	ProtecTor
Article Group 2.52	Article Group 2.52	Article Group 2.55
Features	<ul style="list-style-type: none"> ▶ one single fan group for ambient air stream and warm air stream, for more effective, energy-efficient screening of cold air (approx. 38 % energy savings) ▶ energy-efficient EC fans ▶ BMS interface 	<ul style="list-style-type: none"> ▶ unique: this industrial door air curtain operates with an ambient air and heated air stream and saves up to 38 % energy! ▶ dynamic, patented air distribution between ambient air stream and warm air stream ▶ whisper-quiet AC or EC fans ▶ BMS interface
Properties	<p>Heat output ¹⁾</p> <ul style="list-style-type: none"> ▶ 9.6 – 33.9 kW <p>Air volume</p> <ul style="list-style-type: none"> ▶ 1,890 – 8,180 m³/h <p>Max. discharge height ²⁾</p> <ul style="list-style-type: none"> ▶ 3.5 – 4.0 m 	<p>Heat output ¹⁾</p> <ul style="list-style-type: none"> ▶ 50.0 – 167.2 kW <p>Air volume</p> <ul style="list-style-type: none"> ▶ 11,000 – 35,800 m³/h <p>Max. discharge height and/or discharge width ²⁾</p> <ul style="list-style-type: none"> ▶ 3.5 – 4.5 m <p>Unit lengths</p> <ul style="list-style-type: none"> ▶ 2.0 – 5.0 m
Applications	<ul style="list-style-type: none"> ▶ all kinds of retail outlets, department stores ▶ supermarkets, offices ▶ restaurants and hotels ▶ public buildings ▶ energy saving applications 	<ul style="list-style-type: none"> ▶ industrial heating, ideal across the entrances to industrial premises, workshops, warehouses etc. ▶ energy saving applications

¹⁾ LPHW 75/65 °C and EAT = 20 °C
²⁾ at low to medium pressure, requirements and conditions

Door Air Curtains

At a glance

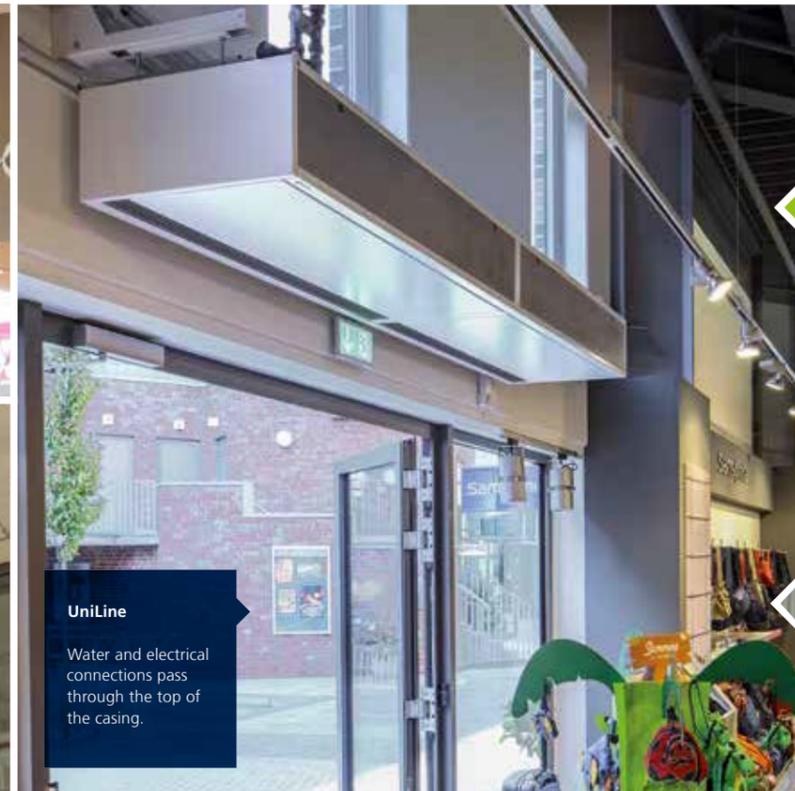


Tandem 300

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

Tandem 300

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

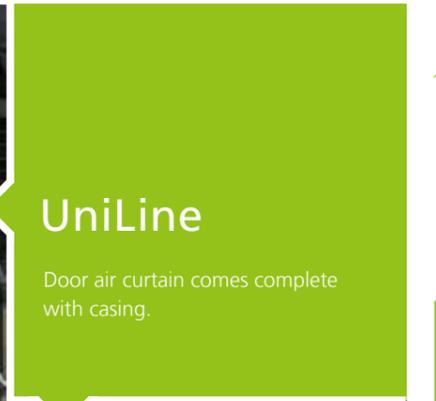


UniLine

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

UniLine

Door air curtain comes complete with casing.



ProtecTor

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



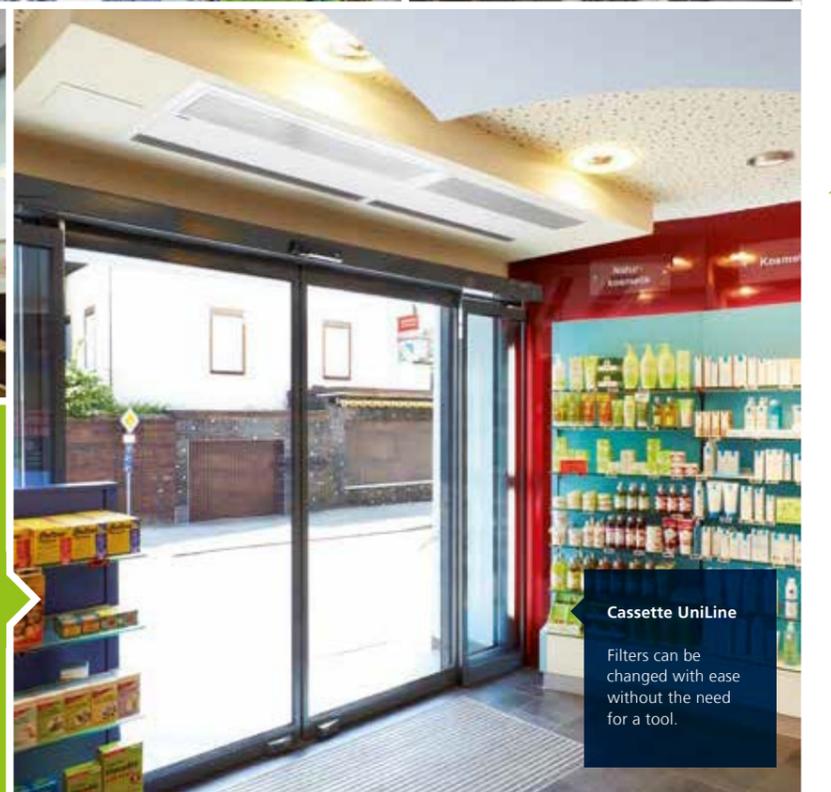
ProtecTor

Coanda effect between the ambient air and heated air streams



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



Article Group 1.57

Properties

Casing

- ▶ fully manufactured from galvanised sheet steel

Fan

- ▶ 2-stage, three-phase sickle blade whisper-quiet fan
- ▶ 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 louvre 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 technology

- ▶ 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 technology

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.



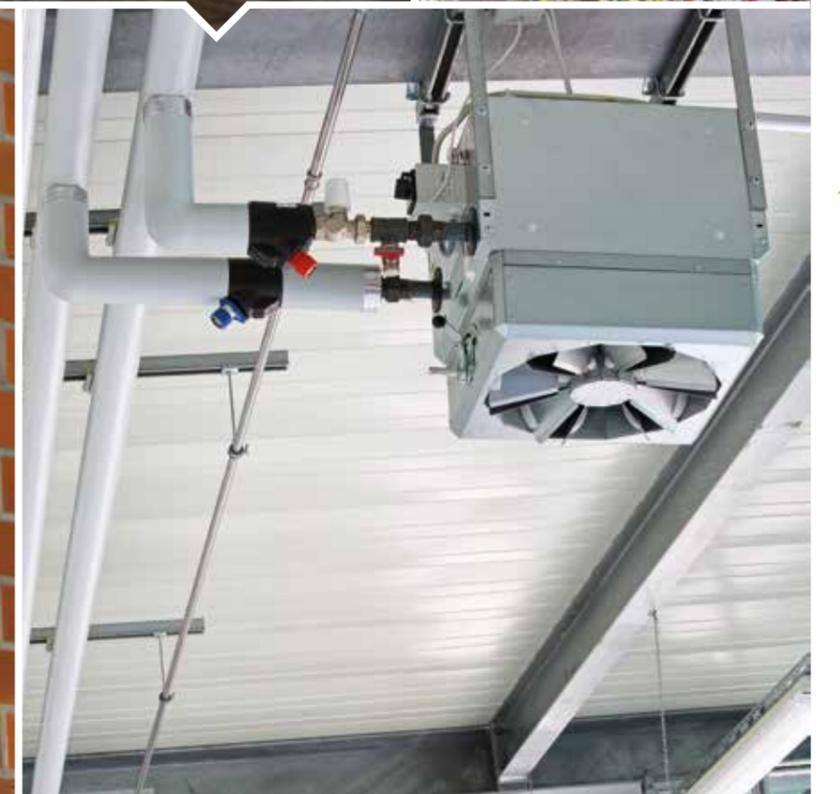
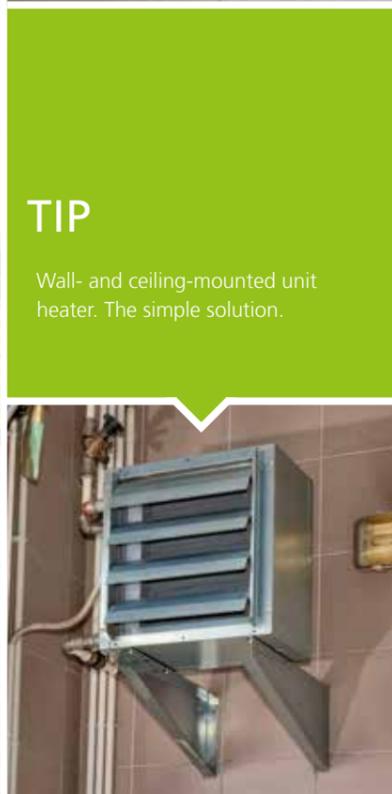
TOP

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



TIP

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



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



2



3



4



5



6

- 1 Venkon
- 2 KaDeck
- 3 KaCool D Ceiling Cassette
- 4 KaCool W Wall-mounted Unit
- 5 Wall HK
- 6 Ceiling HK

Fan Coil Units

Overview



	Article Group 1.48	Article Group 3.26	Article Group 3.25
Properties	<p>Casing</p> <ul style="list-style-type: none"> flexible combination by basic unit and casing the quietest on the market casing in slim design in all common RAL colours easy to install <p>Fan</p> <ul style="list-style-type: none"> stage-controlled AC fans infinitely variable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2- or 4-pipe unit 	<p>Casing</p> <ul style="list-style-type: none"> 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 <p>Fan</p> <ul style="list-style-type: none"> infinitely adjustable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2-pipe unit 	<p>Casing</p> <ul style="list-style-type: none"> minimalist cassette design compact basic housing design panel RAL 9003 (signal white) easy to install <p>Fan</p> <ul style="list-style-type: none"> stage-controlled AC fans infinitely variable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2- or 4-pipe unit
Features	<p>Heating</p> <ul style="list-style-type: none"> LPHW <p>Cooling</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 0.88 – 9.52 kW <p>Heat output²⁾</p> <ul style="list-style-type: none"> 1.82 – 22.12 kW <p>Control options</p> <ul style="list-style-type: none"> EC variation: KaControl or electromechanical AC variation: KaControl or electromechanical BMS interface optional <p>Installation options</p> <ul style="list-style-type: none"> wall-mounted or free-standing <p>Variations</p> <ul style="list-style-type: none"> available in seven sizes 	<p>Heating</p> <ul style="list-style-type: none"> LPHW <p>Cooling</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 306 – 2,642 W (dry and wet cooling) <p>Heat output²⁾</p> <ul style="list-style-type: none"> 743 – 3,755 W <p>Control options</p> <ul style="list-style-type: none"> KaControl optional BMS interface <p>Installation options</p> <ul style="list-style-type: none"> recessed, below the ceiling, at the perimeter or in the centre of the room <p>Variations</p> <ul style="list-style-type: none"> available in four versions (dry or wet cooling) 	<p>Heating³⁾</p> <ul style="list-style-type: none"> LPHW <p>Cooling⁴⁾</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 1.24 – 11.10 kW <p>Heat output²⁾</p> <ul style="list-style-type: none"> 2.22 – 14.00 kW <p>Control options</p> <ul style="list-style-type: none"> EC variation: KaControl or electromechanical AC variation: electromechanical BMS interface optional infrared remote control <p>Installation options</p> <ul style="list-style-type: none"> ceiling installation <p>Variations</p> <ul style="list-style-type: none"> available in six sizes

¹⁾ with CHW 7/12 °C, EAT = 27 °C, 50 % relative humidity
²⁾ with LPHW 75/65 °C, RT = 20 °C



At a glance



	Article Group 3.24	Article Group 3.21	Article Group 3.22
Properties	<p>Casing</p> <ul style="list-style-type: none"> integrable condensate pump elegant and discreet easy to install <p>Fan</p> <ul style="list-style-type: none"> stage-controlled AC fans infinitely variable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2-pipe unit 	<p>Casing</p> <ul style="list-style-type: none"> super slim designer panel for recessed mounting or optional casing for surface mounting galvanised steel casing powder coated to any RAL colour <p>Fan</p> <ul style="list-style-type: none"> infinitely adjustable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2- or 4-pipe unit copper/aluminium 	<p>Casing</p> <ul style="list-style-type: none"> slimline convector for discreet ceiling installation linear aluminium outlet grille/frame <p>Fan</p> <ul style="list-style-type: none"> infinitely adjustable EC fans <p>Coil</p> <ul style="list-style-type: none"> 2- or 4-pipe unit copper/aluminium
Features	<p>Heating³⁾</p> <ul style="list-style-type: none"> LPHW <p>Cooling⁴⁾</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 1.24 – 3.81 kW <p>Heat output²⁾</p> <ul style="list-style-type: none"> 1.5 – 4.86 kW <p>Control options</p> <ul style="list-style-type: none"> EC variation: KaControl or electromechanical AC variation: electromechanical BMS interface optional infrared remote control <p>Installation options</p> <ul style="list-style-type: none"> perimeter of room <p>Variations</p> <ul style="list-style-type: none"> available in four sizes 	<p>Heating</p> <ul style="list-style-type: none"> LPHW <p>Cooling</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 908 – 3.077 W <p>Heat output²⁾</p> <ul style="list-style-type: none"> 1.348 – 4.542 W <p>Control options</p> <ul style="list-style-type: none"> KaControl or electromechanical BMS interface optional <p>Installation options</p> <ul style="list-style-type: none"> wall-mounted wall-recessed with grilles/ front-panel or surface mounted with casing <p>Variations</p> <ul style="list-style-type: none"> available in eight sizes 	<p>Heating</p> <ul style="list-style-type: none"> LPHW <p>Cooling</p> <ul style="list-style-type: none"> CHW <p>Cooling output¹⁾</p> <ul style="list-style-type: none"> 908 – 3.077 W <p>Heat output²⁾</p> <ul style="list-style-type: none"> 1.348 – 4.542 W <p>Control options</p> <ul style="list-style-type: none"> KaControl or electromechanical BMS interface optional <p>Installation options</p> <ul style="list-style-type: none"> within suspended ceiling <p>Variations</p> <ul style="list-style-type: none"> available in eight sizes

¹⁾ 2-pipe units with CHW 7/12 °C, EAT = 24 °C, 50 % relative humidity, at 80 % fan speed

²⁾ 2-pipe units with LPHW 49/38 °C, RT = 21 °C, at 80 % fan speed

³⁾ with CHW 7/12 °C, EAT = 27 °C, 48% relative humidity

⁴⁾ with LPHW 70/60 °C, EAT = 20 °C

Fan Coil Units

At a glance



Ceiling HK

Energy-efficient heating and cooling ceiling unit with minimum dimensions.



Wall HK

Wall-mounted slimline convector for fan-assisted heating and cooling.



Venkon

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



KaCool D

Minimalist cassette design, optional with energy saving EC fans.



KaCool W

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



KaDeck

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



KaCool D

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

Kampmann. Genau mein Klima.

With over 720 employees at 16 locations around the world, Kampmann is one of the major players in the construction and building services industries. Kampmann systems for heating, cooling and ventilation are at the forefront of different market segments today.

Innovation and the ultimate quality standards in all divisions reinforce this success for the future as well.

Our customers attach importance to working with reliable partners rather than with interchangeable suppliers. We can state clearly and succinctly why Kampmann is such a reliable partner: **Genau mein Klima - "Precisely my kind of climate"**

Precisely:

The precision with which Kampmann adapts its solutions to customers' requirements.

My:

The individual approach Kampmann offers its customers.

Kind of climate:

The partnership-based atmosphere that customers and suppliers alike experience with Kampmann.



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 m² 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:

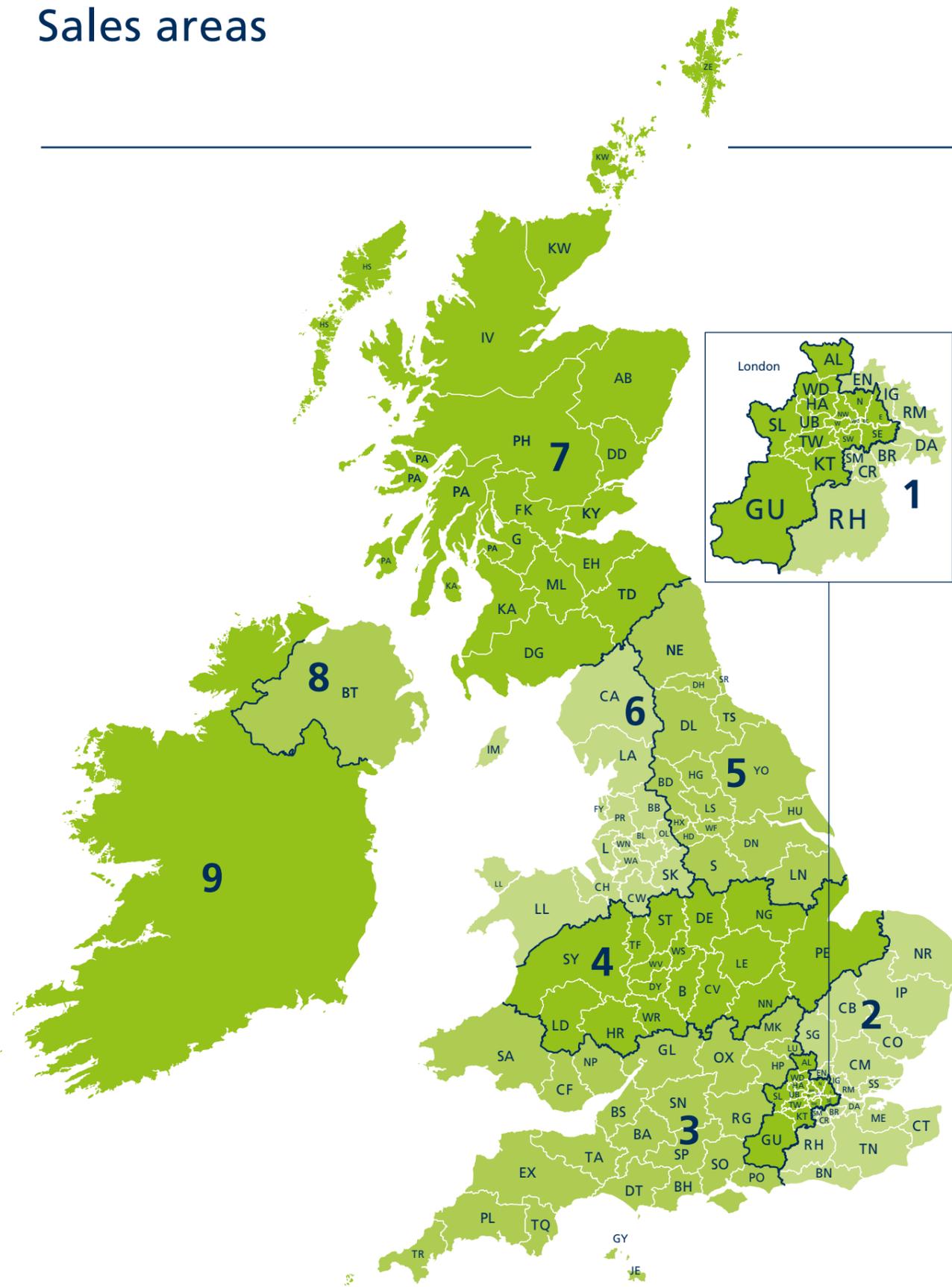
- ▶ functional demonstration and presentation of products
- ▶ product testing in real installation situations
- ▶ reliable technical data and proof of outputs
- ▶ continuous new developments and product enhancements.

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.

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