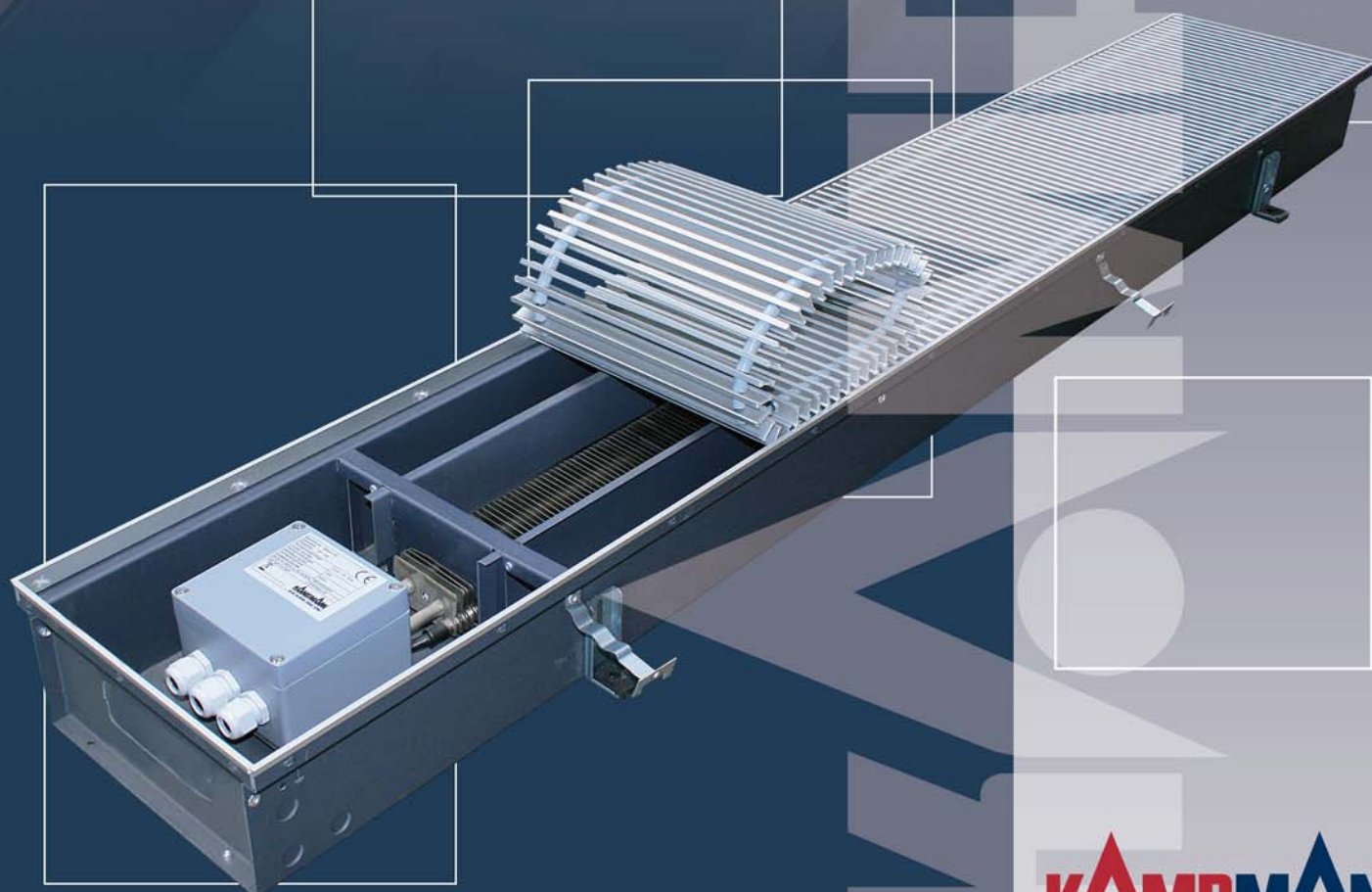


Article group
2.45



07/2008
GB

Katherm NE



Innovative, professional, international

In over 35 years, Kampmann GmbH has grown from being a family-led company to become an internationally

renowned group of companies. Kampmann systems for heating, cooling and ventilation are today market leaders in a number of different market sectors. Innovation and the highest standards of quality guarantee this success into the future.

We have an "ear on the market" and the knowledge and expertise gained from 35 years of experience in development, production and sales. This, combined with a professionally-manned research and development department, is the basis for our continuous product development. This is what allows us to provide our customers with the best technical product at any time.

Traditionally, Kampmann's skills and expertise have been in the production of standard products with an extraordinary range of adapted products, as well as in the production of technically and visually high-quality tailor-made design solutions. Our specialist staff deal with the building in its entirety and develop unique and efficient system solutions. Our entire range is reflected in mix of standard, non-standard and tailor-made products for project-orientated solutions.

We set ourselves very high standards in production. Today an exceptionally well-trained specialist workforce manufactures high-quality Kampmann products in three plants for customers throughout the world. A number of different certificates are evidence of our high standards of quality, which have become the standard at Kampmann. Our products are characterised by the high guaranteed DIN EN-tested heat outputs. In terms of quality management the requirements of TÜV certification according to DIN EN ISO 9001 have been met since 1996.

For decades, Kampmann customers have valued our excellent service. Local external engineers and technicians, in-house measuring engineers and the Kampmann customer service team are available to customers. Kampmann good air quality is now to be found across the globe. Our sales engineers now cover the whole of Germany and Europe.

This **Katherm NE** brochure provides you with an insight into our wide product range. Take a look and make up your own mind – do not hesitate to arrange a personal visit with us. It is our aim to meet your high quality expectations, right down to the last detail.

Well-being is our product – Quality is our benchmark!

Hendrik Kampmann
Managing Director



Peter Kaß
Managing Director



Katherm NE Production in the Kampmann plant in Lingen

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Katherm NE - Natural convection with electric heating element

Floor ducts

Accessories

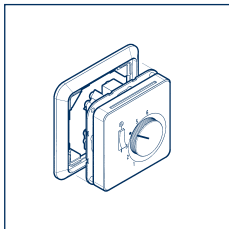
Contents Article group 2.45



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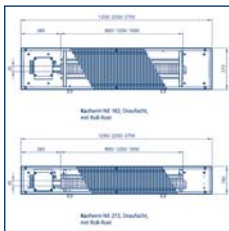
Product description/
Accessories



Controls

Accessories: Room and clock thermostats	6
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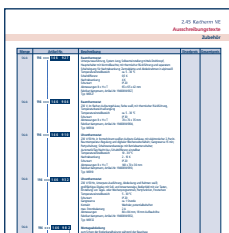
Controls



Technical data

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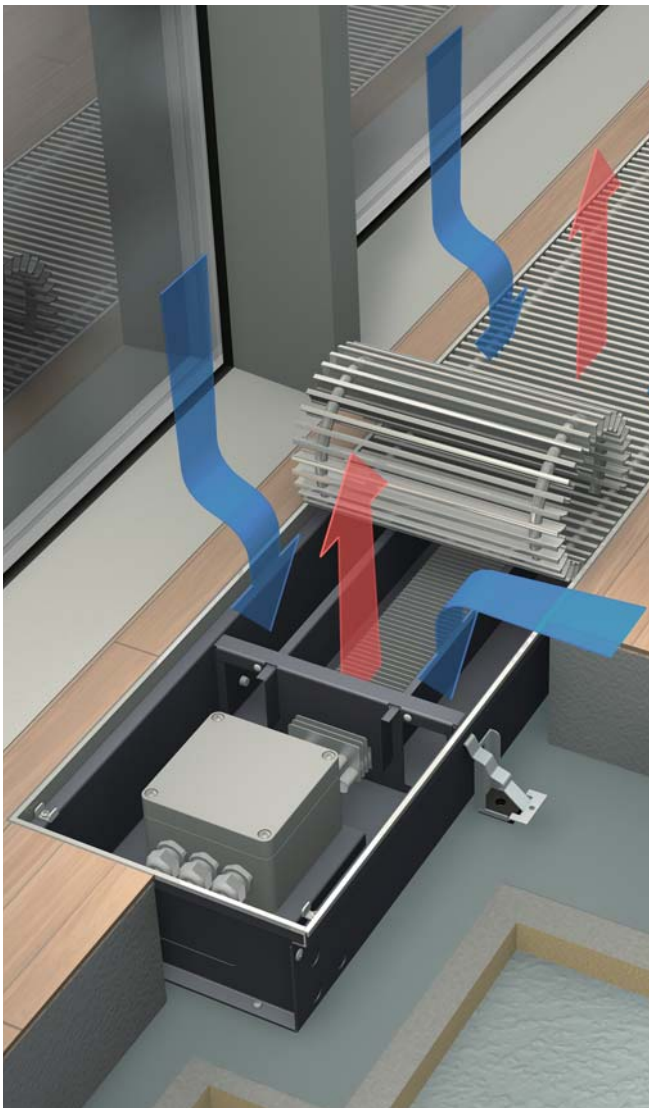
Technical data



Specifications

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Specifications



Katherm NE – natural convection with electric heating element

Katherm NE floor duct heaters are the ideal solution when the use of a LPHW convector is not possible or planned. They provide cold air screening at the same time as providing supplementary heat output. They can also be used to meet the complete heat requirement in a space, should the heat output meet the heat requirement.

● Function:

Cold air that forms on the glazing or enters a room through joints falls into the floor duct, is heated by the electric heating element and rises upwards. The up-current is enhanced by the shape of the duct.

● Advantages:

Katherm NE provides both the benefits of whisper-quiet operation with natural convection, as well as quick warm-up. These units are ideal for fitting under full-height glazing.

Article key

Length key
 20 = NP 1250 mm
 30 = NP 1750 mm
 40 = NP 2250 mm

Grille finish (see table below)

1 = Roll-up grille

Floor duct height:
 12 = duct height 120 mm

Overall frame width
 2 = overall frame width 182 mm
 4 = overall frame width 272 mm

Article group
 Enter a 0 into the empty spaces

2 4 5 0 2 12 1 11 20

Roll-up grille finishes

11	aluminium, natural anodised	16	aluminium, basalt grey painted, DB 703
12	aluminium, brass anodised	31	stainless steel
13	aluminium, bronze anodised	32	stainless steel, polished
14	aluminium, black anodised	33	natural brass CuZn 44
15	aluminium, bronze effect	Other grille finishes (colours) are available on request. The grille finishes shown here are printed using a four-colour printing process and so may not replicate the original colours exactly.	

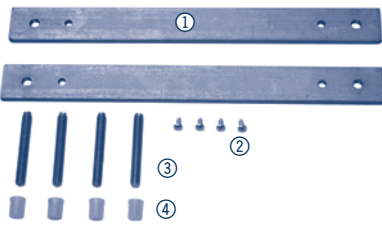
Katherm NE units are supplied as ready-to-install heating ducts and are ideal for installation in screeded floors. Once in position, all that is visible are the attractive roll-up grilles, available in a range of finishes.

● Details:

- Sendzimir-galvanised steel duct, all internal parts painted graphite grey
- Internal and side height adjustment feet and anchoring lugs
- Stainless steel heating element with 40 x 70 mm fins with protective sensor conduit
- Integral output control
- Optional control via room thermostat or BMS
- Integral safety thermostat and temperature safety switch
- Duct widths 182 and 272 mm
- Duct height 120 mm
- Duct lengths 1250/1750/2250 mm
- Low surface temperatures

Optional accessories: Raised floor height adjustment feet · Installation cover

Raised floor height adjustment feet · Installation cover



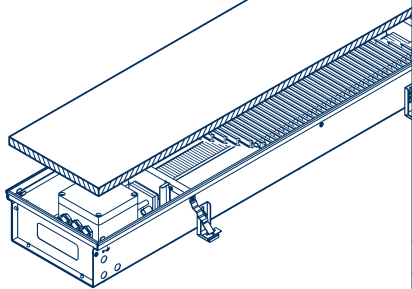
For duct length 1250 mm (2 sets)

Raised floor height adjustment feet

for use with Katherm NE, comprising (per set):

- 1 Flat iron bar ①,
- 2 Screws ②,
- 2 M8 adjustment screws ③ complete with insulation ④;

Katherm model	NE 182	NE 272
Type	14521	14531



Installation cover

If required, all Katherm NE units can also be supplied with grilles packed separately in order to prevent them from becoming damaged on site. The floor duct is then supplied with a non-reusable wooden installation cover.

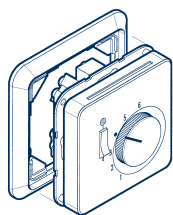
Katherm model	NE 182	NE 272
Type	100982	100984

Product description /
Accessories

Article no. for DataNorm/EDV entry: 194 000 (Insert type)
194 000 0 (Insert type)

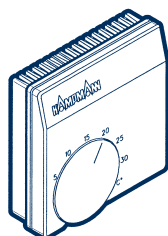
Accessories: Room and clock thermostats

Room and clock thermostats

**Room thermostat, type 146927**

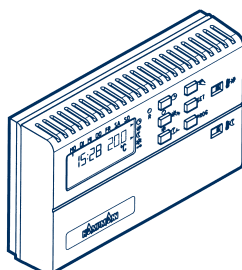
Flush-mounted, Alpine white panel and frame, with temperature setting dial, main on/off switch with control light, thermal feedback and additional switching input for night setback (4 K) via an external time switch

Housing	Jung, flush-mounted, Alpine white
Voltage	230 V/50 Hz
Temperature setting range	5 - 30 °C
Max. power consumption	4 A
Protection class	IP 20
Dimensions W x H x D	65 x 65 x 42 mm

**Room thermostat, type 146904**

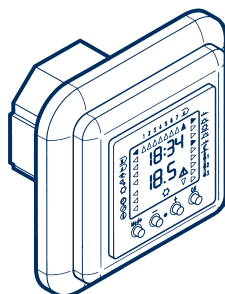
In an attractive slimline surface-mounted housing; with thermal feedback; a flush-mounted Ø 55 mm backbox is required for fitting.

Housing	surface-mounted, white
Voltage	230 V/50 Hz
Temperature setting range	5 - 30 °C
Switching differential	approx. 0.6 K
Max. power consumption	4 A
Protection class	IP 30
Dimensions W x H x D	74 x 74 x 27 mm

**Clock thermostat, type 146910**

Combined clock/room thermostat; precise digital clock for day/week programme. The required room temperature and setback temperature can be set simply and easily. The optional override function allows a setback interval to be overridden. Day or night temperature can be continually reset.

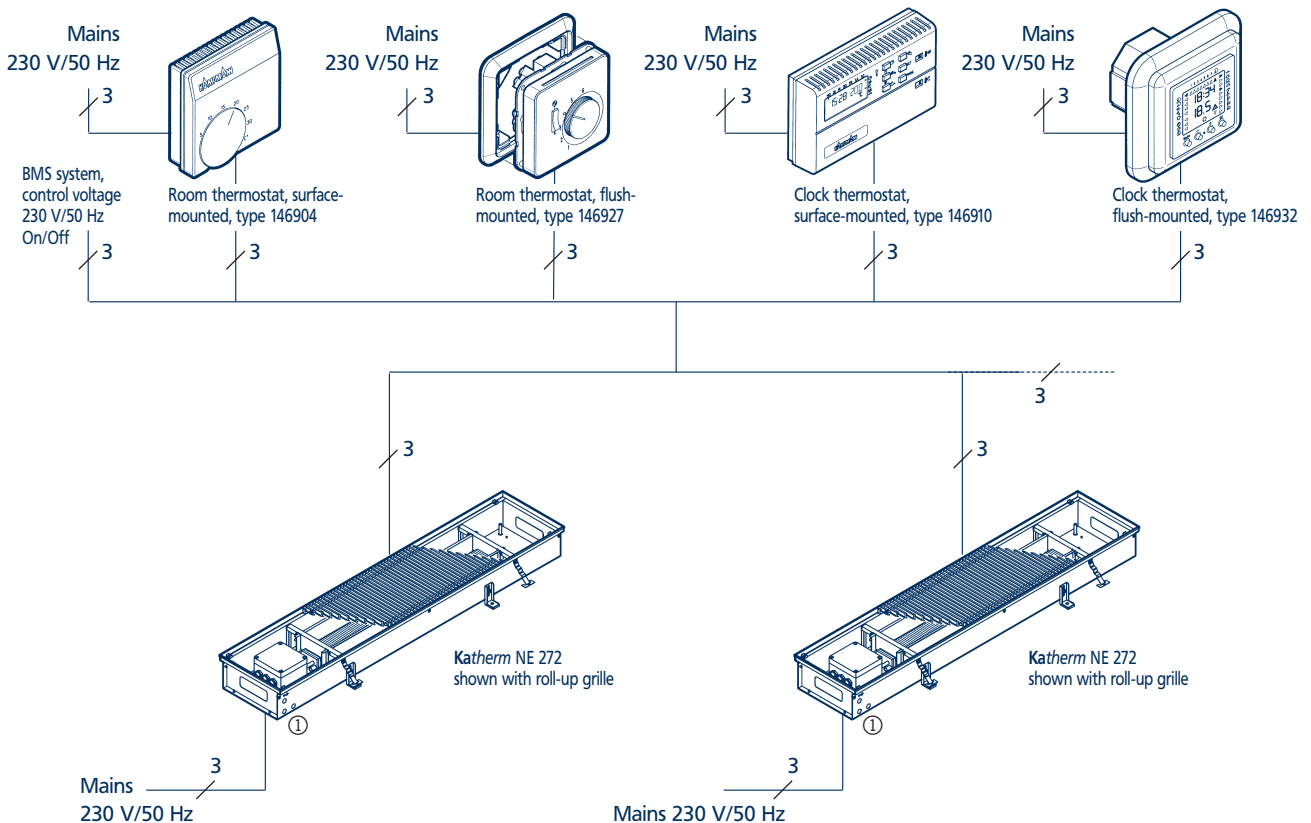
Voltage	230 V/50 Hz
Temperature setting range	5 - 40 °C
Max. power consumption	4 A
Protection class	IP 20
Dimensions W x H x D	132 x 82 x 32 mm

**Clock thermostat, type 146932**

Attractive flush-mounted combined digital clock/room thermostat with electronic 2-point control and digital time switch. Flush-mounted with white front panel and frame. Large, clear display showing preset and actual temperatures, simple 4-key operation; day/week programmes can be set; override function and frost protection.

Voltage	230 V/50 Hz
Temperature setting range	5 - 40 °C
Protection class	IP 40
Power reserve	approx. 4 hours
Contact	single-ended, changeover contact
Max. power consumption	2 A
Dimensions W x H x D	84 x 84 x 18 mm (from wall)

Possible controls combinations



① Opening for electrical cable

*Shielded control cable (e.g. J-Y (ST) Y, 0.8 mm), to be laid separately from high-voltage current cables! The number of connecting wires, including fuses, is shown for each separate controller

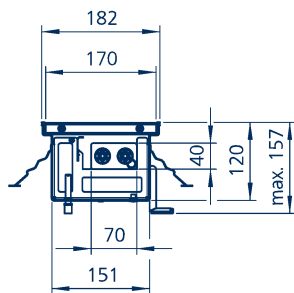
Control

Every **Katherm NE** floor duct is fitted with an integral output control for the electrical heating element. This is designed in such a way that it can be switched on continuously, that is to say continuous operation. Room temperature control is provided by means of conventional thermostats with 2-point control (On/Off, see Accessories). The output is switched on via an output switch integrated within the **Katherm NE**. The room thermostats or BMS switches are only controlled by means of control voltage. It is possible to control a group of multiple floor ducts without further accessories. Every **Katherm NE** has a separate mains supply.

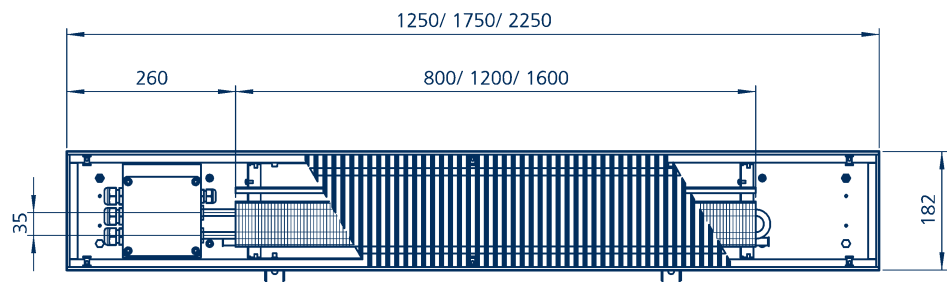
Safety switch

The electric heating element is fitted with a 2-stage safety switch. Should the temperature of the surface of the grille exceed 70 °C, if the floor duct unit is being operated improperly, say by covering the grille, then a safety thermostat switches off the heating element. As soon as the heating element has cooled down or the cause of the overheating has been eliminated, the safety thermostat switches the element on again automatically. If the temperature in the floor duct continues to rise, for some reason not immediately recognisable, then a temperature safety device switches the element off and locks it. The floor duct can then only be made operational by a qualified technician. If one of the two safety stages has been triggered, then this can be indicated by a potential-free fault warning contact.

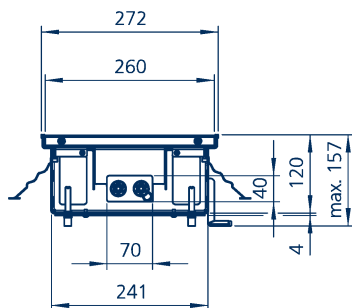
Dimensions



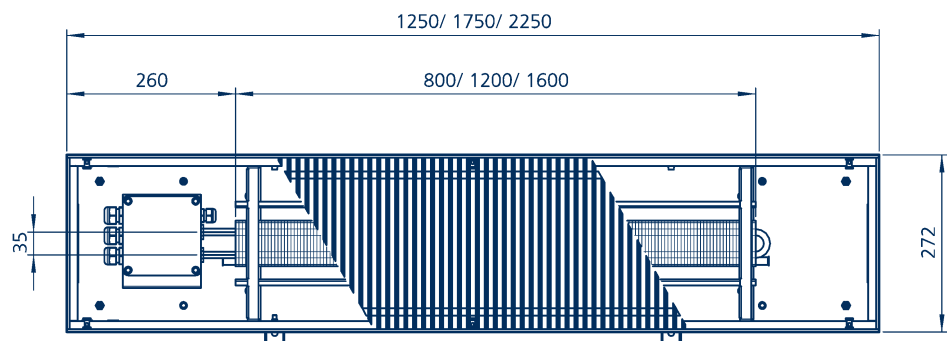
Katherm NE 182, cross-section showing roll-up grille



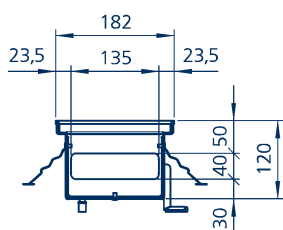
Katherm NE 182, top view showing roll-up grille



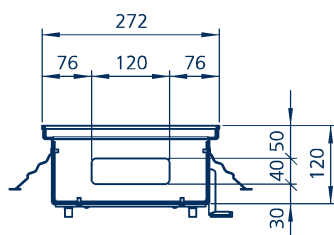
Katherm NE 272, cross-section showing roll-up grille with raised floor height adjustment feet



Katherm NE 272, top view showing roll-up grille



Katherm NE 182, cross-section, showing end view



Katherm NE 272, cross-section showing end view

Dimensions

		Katherm NE 182			Katherm NE 272		
Overall frame width	mm	182			272		
Duct width	mm	151			241		
Grille width	mm	170			260		
Convector height	mm	40			40		
Convector depth	mm	70			70		
Floor duct height	mm	120			120		
Max. adjustment height	mm	157			157		
Floor duct length	mm	1250	1750	2250	1250	1750	2250
Finned heating element length	mm	800	1200	1600	800	1200	1600

Heat outputs

	Katherm NE 182	Katherm NE 272
Duct length K [mm]; NP = Standard range	Heat output [w]	
NP 1250	400	550
NP 1750	600	820
NP 2250	800	1100

Qty.	Article no.	Description	Price/each	Total price
pc.	245 0 2 1 2 1 11 20	Katherm NE floor duct heaters, with electric heating element, supplied as a ready-to-install convector heating duct for installation in a screeded floor operating by natural convection, comprising: a sendzimir galvanised steel duct, painted graphite-grey, with side anchoring lugs to hold it securely in the screeded floor; internal and side height adjustment feet; stainless steel heating element; control box with integral factory-fitted and wired output controller to which room thermostats can be connected; 2-stage safety switch, consisting of: safety thermostat, which switches itself on again automatically and temperature safety switch that switches the unit off and locks it; positioned on steel brackets; brackets for reinforcing floor duct and transverse internal reinforcing brackets; grille frame profile consisting of a double-T profile, matching the colour of the roll-up grille with protective lip on three sides which also acts as a spacer; roll-up grille bar dimensions 18 x 5 mm, grille spacing 9 mm; connected by corrosion-proof steel springs with matching grille spacers; free area approx. 65%. Supplied with: roll-up grille 11 aluminium, natural anodised 12 aluminium, brass anodised 13 aluminium, bronze anodised 14 aluminium, black anodised 15 aluminium, bronze effect 16 aluminium, basalt grey painted, DB 703 31 stainless steel 32 polished stainless steel 33 natural brass CuZn 44 Katherm NE 182 width 182 mm Katherm NE 272 width 272 mm 12 Duct height 120 mm Length key: NP 1250 mm 30 NP 1750 mm 40 NP 2250 mm Technical data: Duct length NP _____ mm (standard range) Heat output _____ w Article group 245, Manufacturer Kampmann, Article no. 2450 _121_ _ _ _ type _121_ _ _ _		
	Required to complete article no. for DataNorm/EDV			

Qty.	Article no.	Description	Price/each	Total price
pc.	194 000 146 927	Room thermostat flush-mounted, Jung, setpoint is set using dial on front panel, main switch with control light, with thermal feedback and separate input for night setback, Alpine white central panel and frame Temperature setting range 5-30 °C Switching difference 0.5 K Night setback 4 K Protection class IP 20 Voltage 230 V/50 Hz Maximum power consumption 4 A Dimensions W x H x D 65 x 65 x 42 mm Article group 1.94, Manufacturer Kampmann, Article no. 194000146927, type 146927		
pc.	194 000 146 904	Room thermostat in a slimline surface-mounted housing, white, with thermal feedback, with optional temperature range limitation Temperature setting range 5 - 30 °C Protection class IP 30 Voltage 230 V/50 Hz Max. power consumption 4 A Dimensions W x H x D 74 x 74 x 27 mm Article group 1.94, Manufacturer Kampmann, Article no. 194000146904, type 146904		
pc.	194 000 146 910	Clock thermostat in an attractive white surface-mounted casing, with electronic 2-point room temperature control and digital week time switch, power reserve of approx. 4 h, override function, mode indicator with Automatic/Day/Night/Off operating switch, settable switching differential Temperature setting range 5-40 °C Night setback 2-10 K Protection class IP 20 Voltage 230 V/50 Hz Max. power consumption 4 A Dimensions W x H x D 132 x 82 x 32 mm Article group 1.94, Manufacturer Kampmann, Article no. 194000146910, type 146910		
pc.	194 000 146 932	Clock thermostat flush-mounted, white frame and front panel; large-scale display with preset and actual temperature indicator, 4-key operating panel, day/week programme setting, override function, frost protection Temperature setting range 5-40 °C Protection class IP 40 Voltage 230 V/50 Hz Power reserve approx. 4 hours Contact single-ended changeover contact Max. power consumption 2 A Dimensions 84 x 84 mm, 18 mm (height from wall) Article group 1.94, Manufacturer Kampmann, Article no. 194000146932, type 146932		
pc.	194 000 100 982	Installation cover to protect the floor duct during installation for Katherm NE 182 for Katherm NE 272 Article group 1.94, Manufacturer Kampmann, Article no. 19400010098_, Type 10098_		
pc.	194 000 145 21	Surcharge for raised floor height adjustment feet for fitting to Katherm NE units; each set comprising: 1 no. flat iron bar, 2 no. steel screws, 2 no. M8 adjustable screws fitted with sound insulation for Katherm NE 182 for Katherm NE 272 Article group 1.94, Manufacturer Kampmann, Article no. 1940000142_1, type 142_1		
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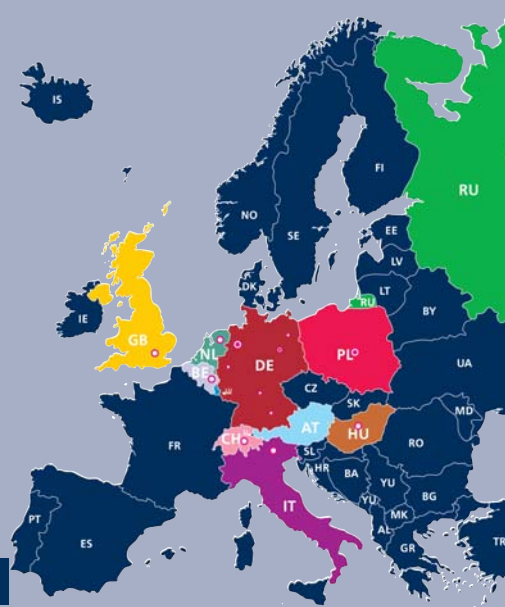
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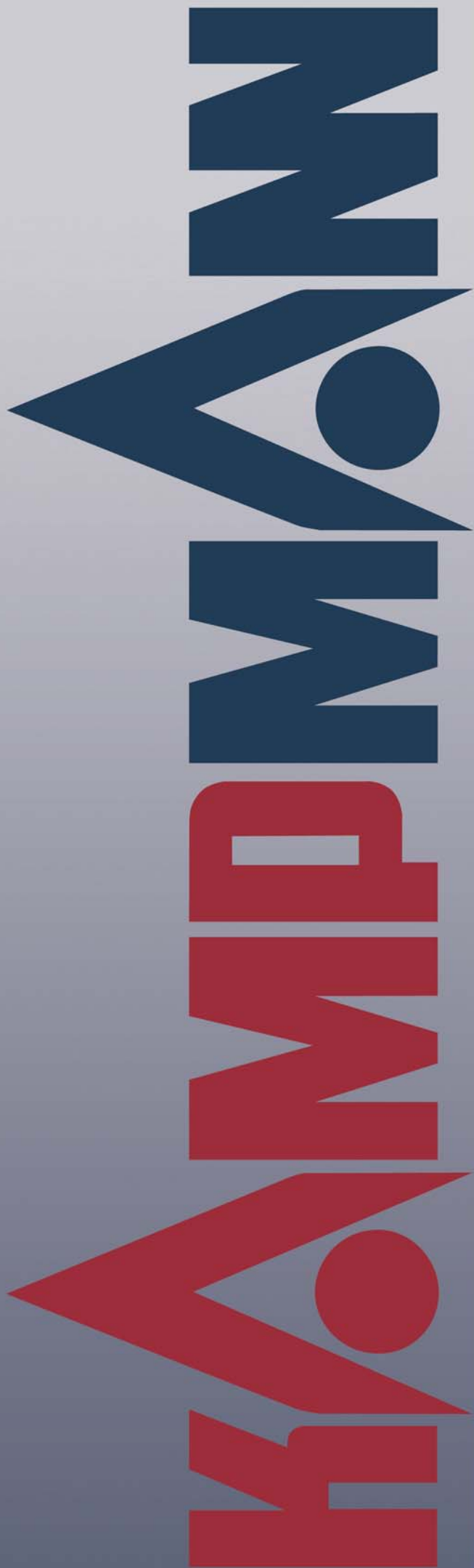
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