

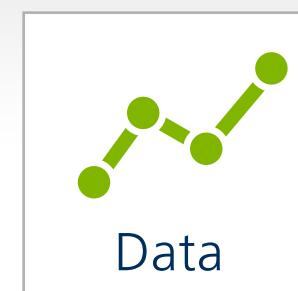
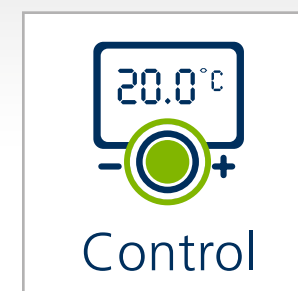
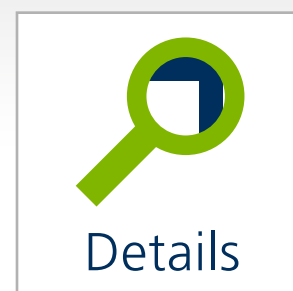
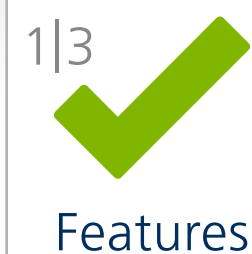
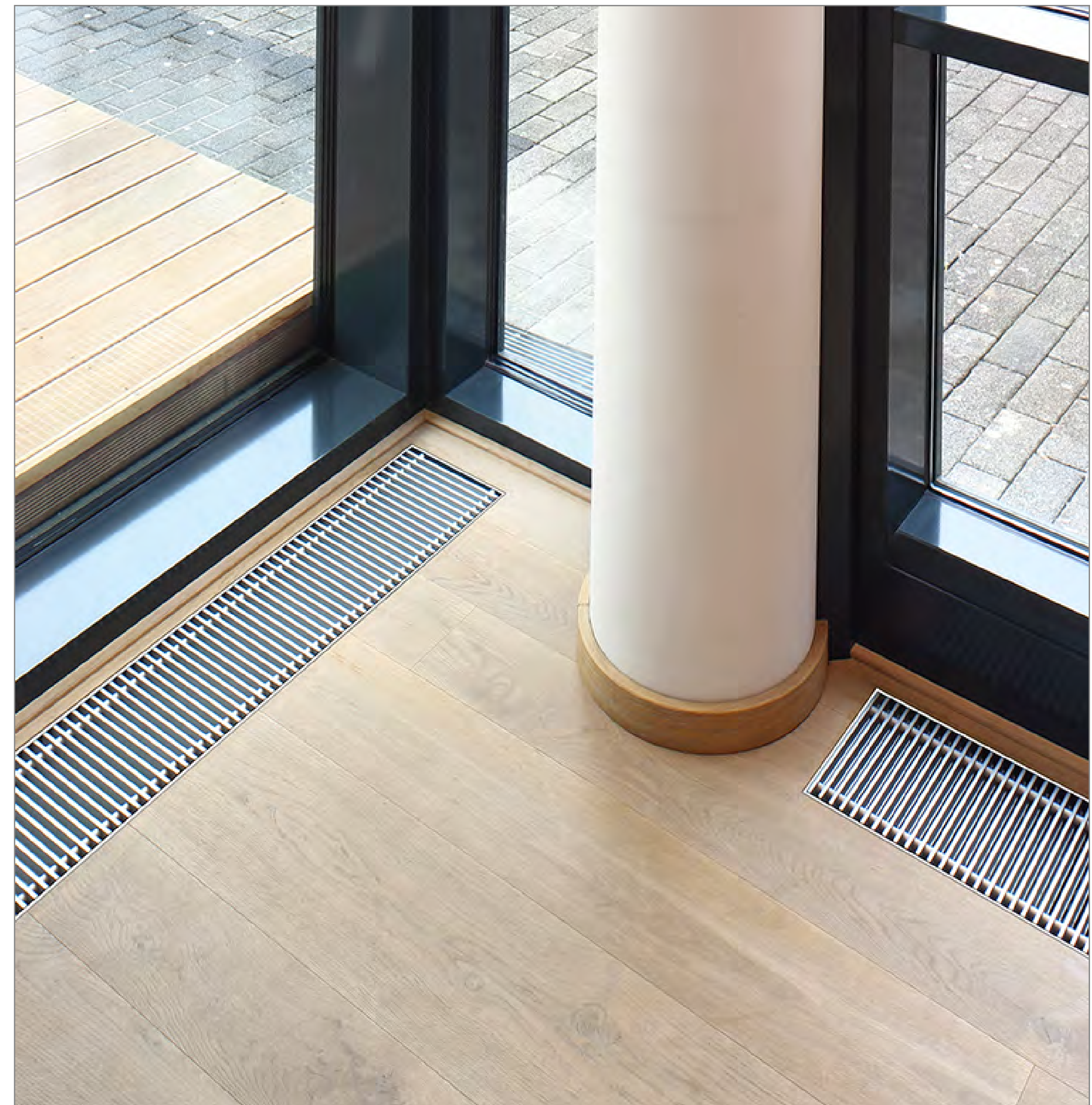
Trench heating

Katherm QE

KAMPMAN
Genau mein Klima.

The solution

With an electric heating element, the Katherm QE offers the ideal solution without the need to connect to a water supply. The high heat output is supported by the fan.



EC-technology

Tangential fans enable high-output yet energy-saving operation with low noise levels.

Design safely

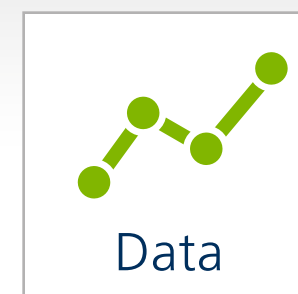
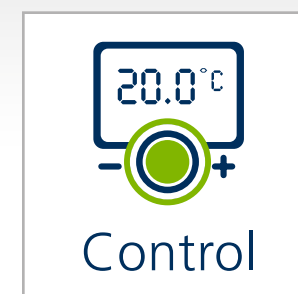
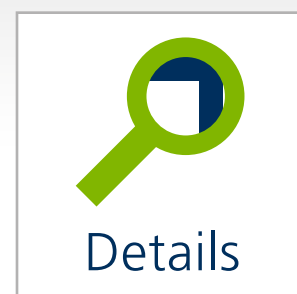
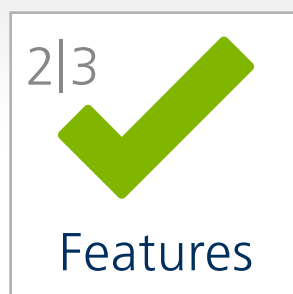
The integrated safety thermostats and temperature cut-outs enable low surface temperatures – giving you added safety.

Compact strength

One width. One height. Three lengths – there's no need for more. Every trench has been optimised for efficiency and noise emission.

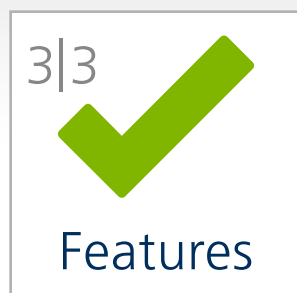
Everything under control

By means of the integrated lower control, control continuously variably by room thermostat or BMS – including 2-stage safety cut-out in the event of improper use.



With a matching frame

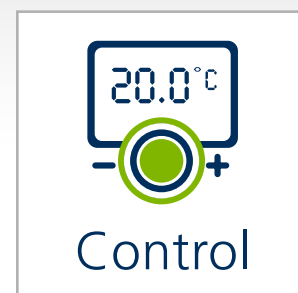
Harmonious look without a break in style –
a matching frame for every roll-up grille.



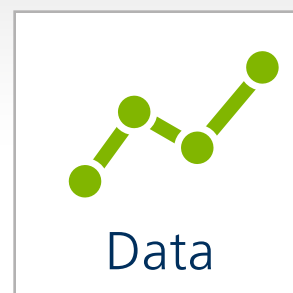
Features



Details



Control

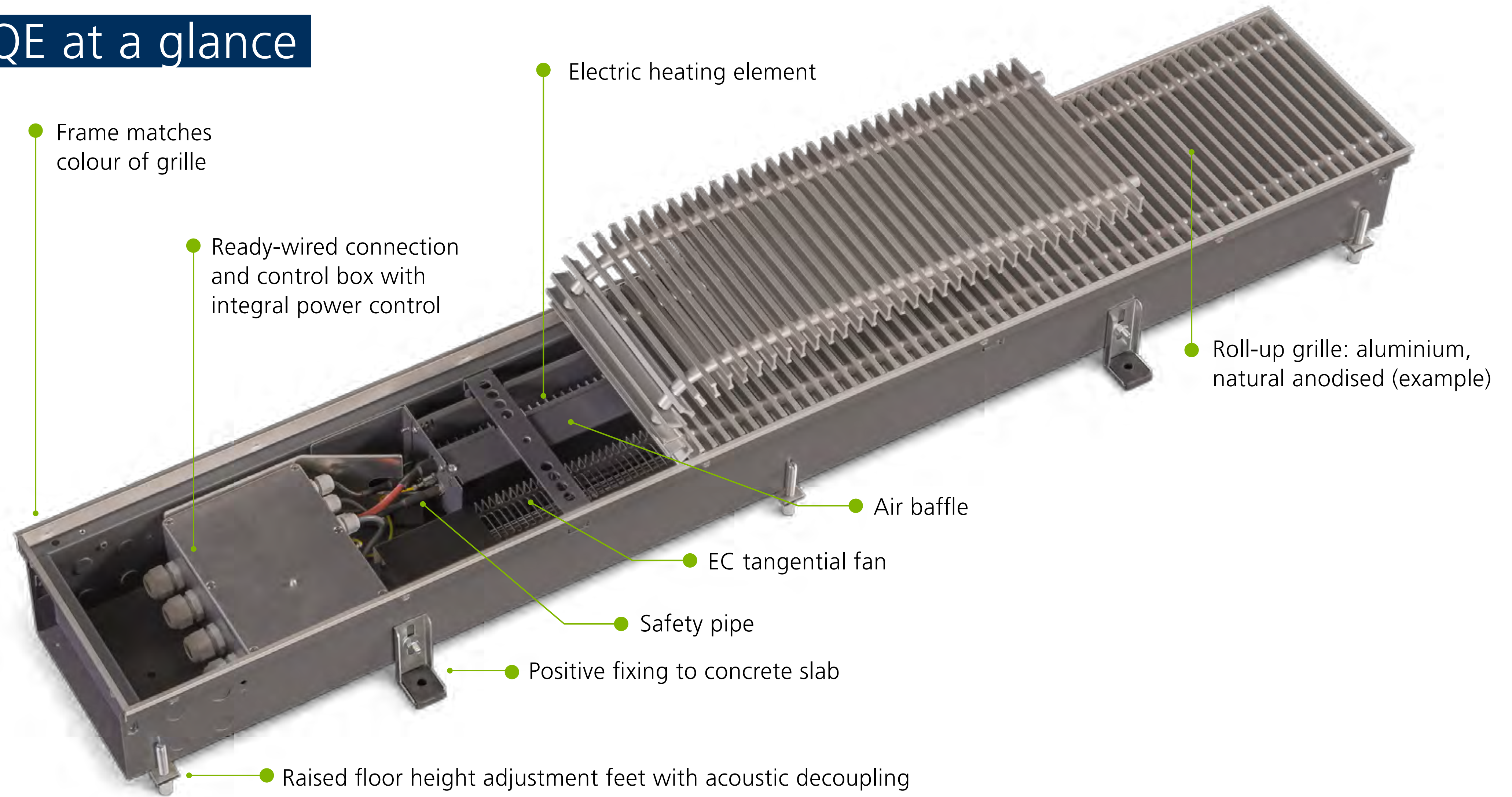


Data



Grilles

Katherm QE at a glance



● Frame matches colour of grille

● Ready-wired connection and control box with integral power control

● Electric heating element

● Roll-up grille: aluminium, natural anodised (example)

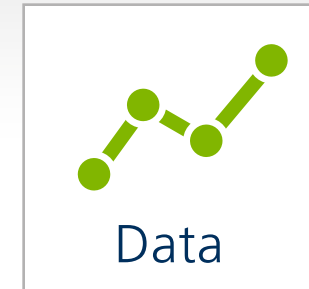
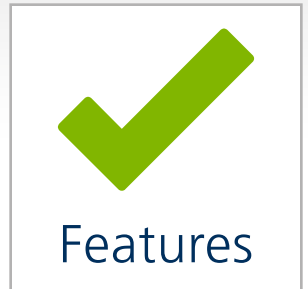
● Air baffle

● EC tangential fan

● Safety pipe

● Positive fixing to concrete slab

● Raised floor height adjustment feet with acoustic decoupling



Electric heating element wiring

- ▶ protection class IP 65
- ▶ heating element factory-wired into control unit



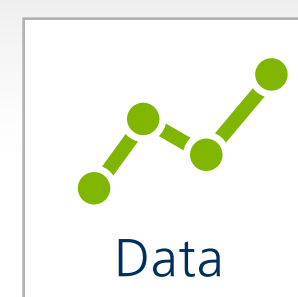
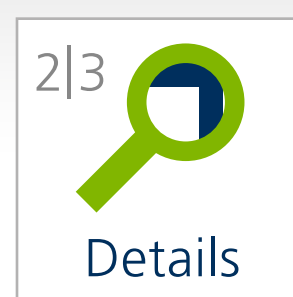
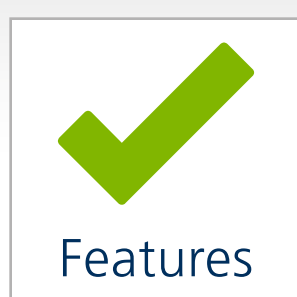
Cover plate

- ▶ as visual protection of the connections
- ▶ with integral ventilation slot



Grille fixing

- ▶ acts as a touch guard, factory-fitted
- ▶ the grille can only be removed using a tool



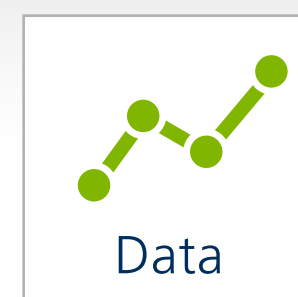
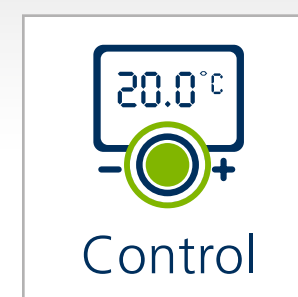
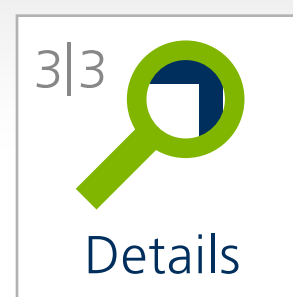
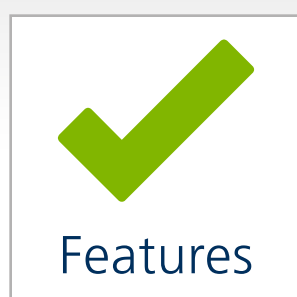
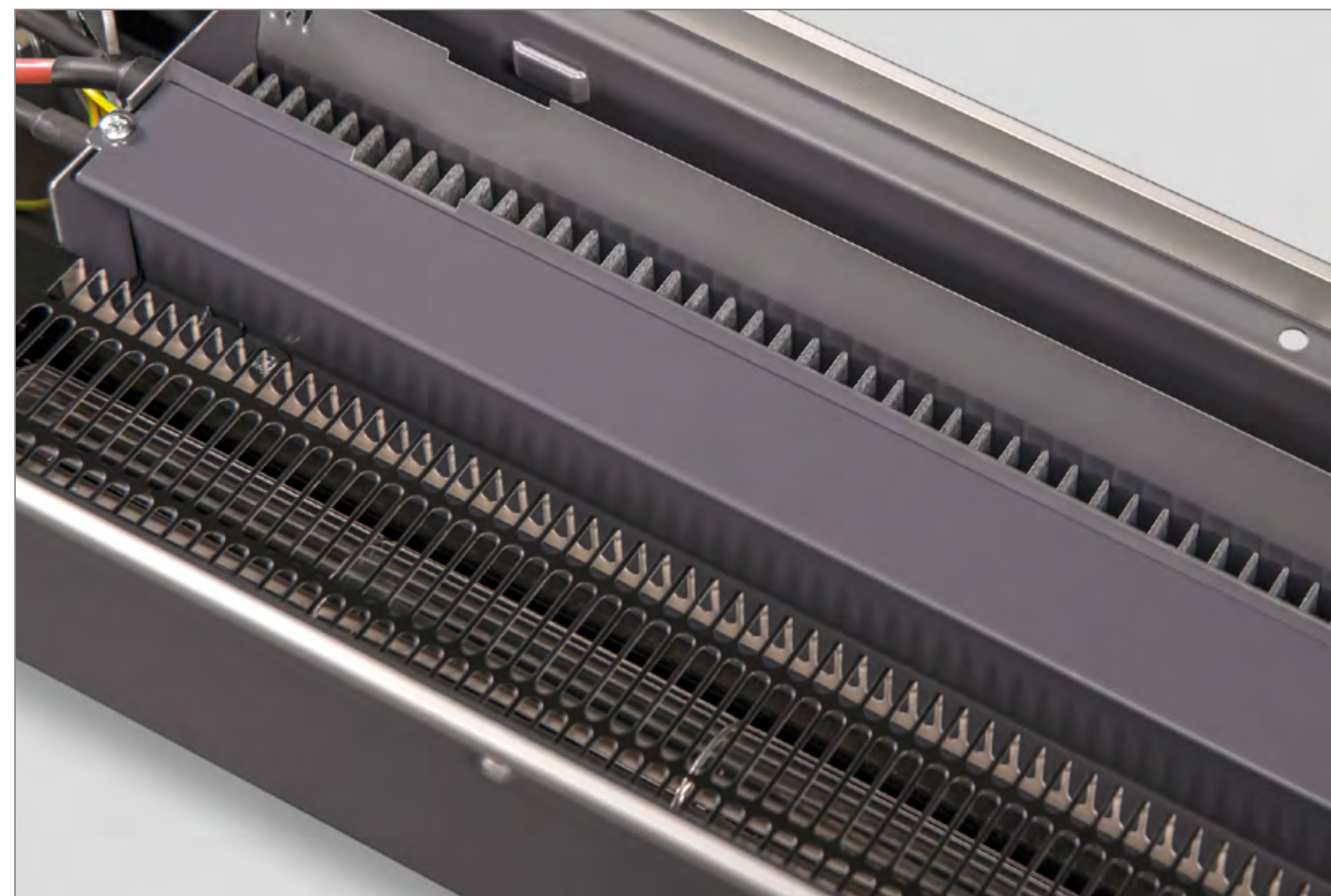
Electrical heating element

- ▶ made from stainless steel/aluminium zinc
- ▶ with 0-100 % output control
- ▶ electrical heating element and fan speed controlled via a 0-10 V signal

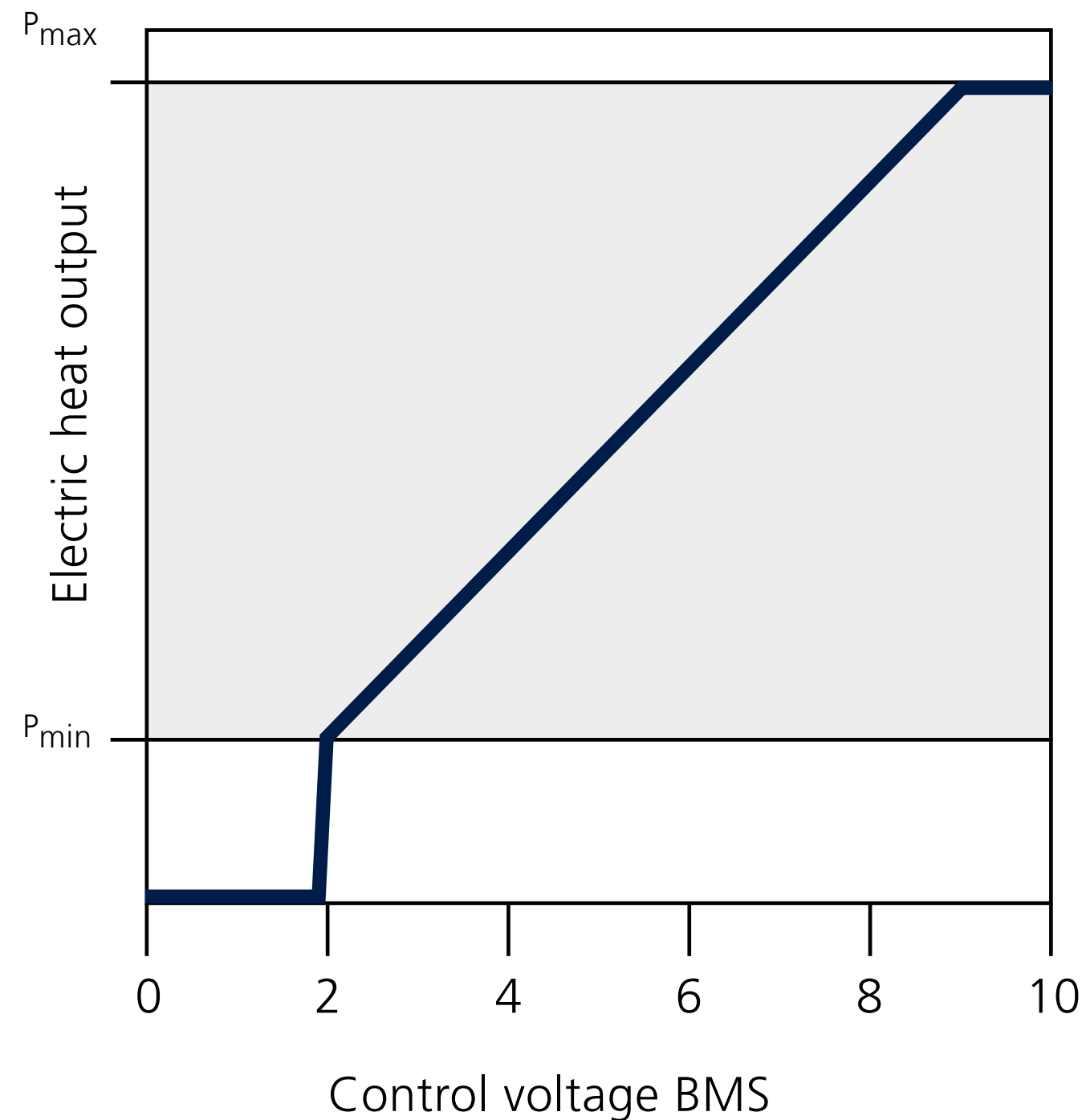


EC tangential fan

- ▶ with integral grille as a safety guard
- ▶ for an even airflow through the heating element, providing high heat outputs with low noise emissions
- ▶ infinitely variable speed control via an external 0-10 V signal
- ▶ motor monitoring with internal fault processing



Control



Power control

Proportional control of speed and heat output

- ▶ with a 2 V control signal: minimum speed of the EC tangential fan and minimum heat output from the electric heating element
- ▶ when the control voltage is increased: the fan speed increases and the heat output increases proportionately
- ▶ the ideal electric heat output is available for every air volume

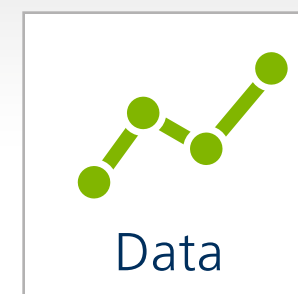
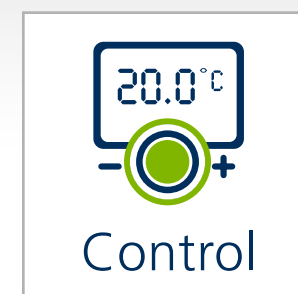
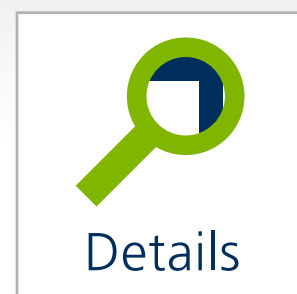
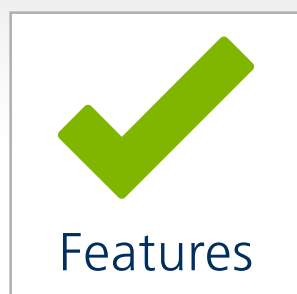


Room temperature control

in a flat surface-mounted housing

- ▶ simple to operate
- ▶ with internal sensor for room temperature measurement
- ▶ for the control of the heat output proportional to the output voltage of the room temperature controller
- ▶ control range of 5-30 °C

Alternatively control can be provided via an external building management system (BMS).

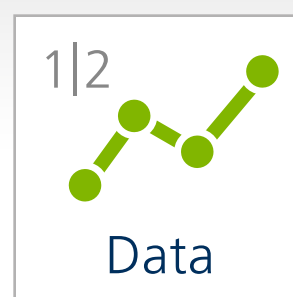
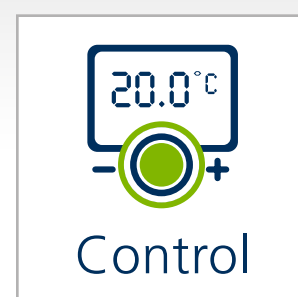
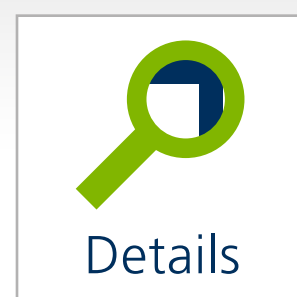
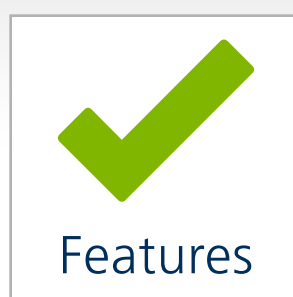


Performance data

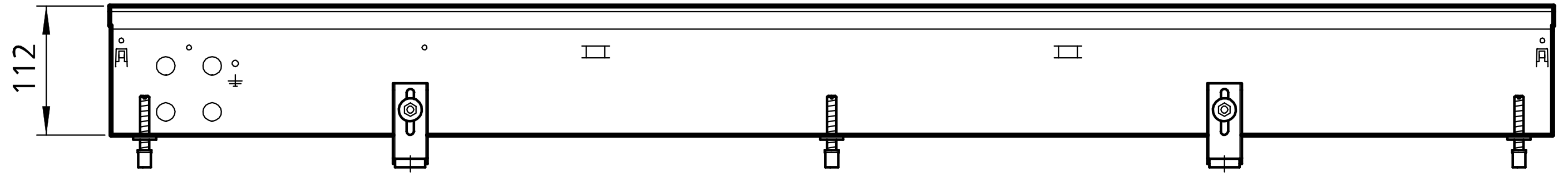
Operating level	Control signal [V]	Heat output [W]	Current consumption [A]	Sound pressure level ¹⁾ [dB(A)]	Sound power level [dB(A)]
Trench length 825 mm					
Boost stage	10	800	3.5	28	36
Design stages	8	660	3.1	26	34
	6	500	2.4	21	29
	4	320	1.5	<20 ²⁾	<28 ²⁾
Minimum stage	2	160	0.7	<20 ²⁾	<28 ²⁾
Trench length 1250 mm					
Boost stage	10	1600	7.0	31	39
Design stages	8	1320	6.3	29	37
	6	1000	4.7	24	32
	4	640	3.0	<20 ²⁾	<28 ²⁾
Minimum stage	2	320	1.5	<20 ²⁾	<28 ²⁾
Trench length 1700 mm					
Boost stage	10	2400	10.6	33	41
Design stages	8	1980	9.5	31	39
	6	1500	7.2	26	34
	4	960	4.5	<20 ²⁾	<28 ²⁾
Minimum stage	2	480	2.2	<20 ²⁾	<28 ²⁾

¹⁾ The sound pressure levels were calculated with an assumed room insulation of 8 dB(A). This corresponds to a distance of 2 m, a room volume of 100 m³ and a reverberation time of 0.5 s. at 60 % fan speed.

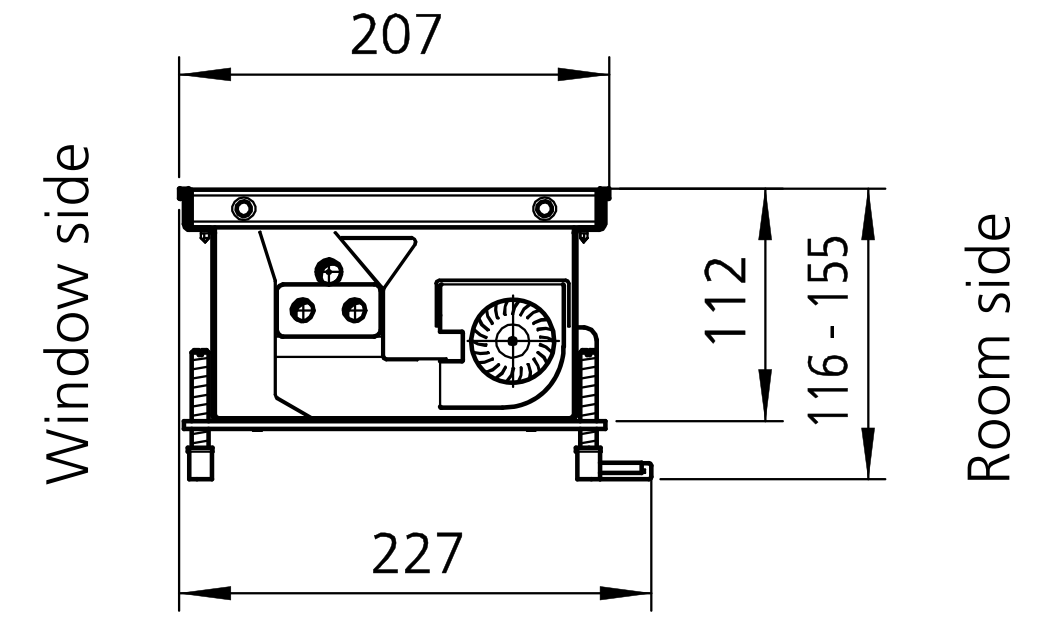
²⁾ Sound pressure level < 20 dB (A) and sound power level < 28 dB (A) outside the usual measuring and audible range.



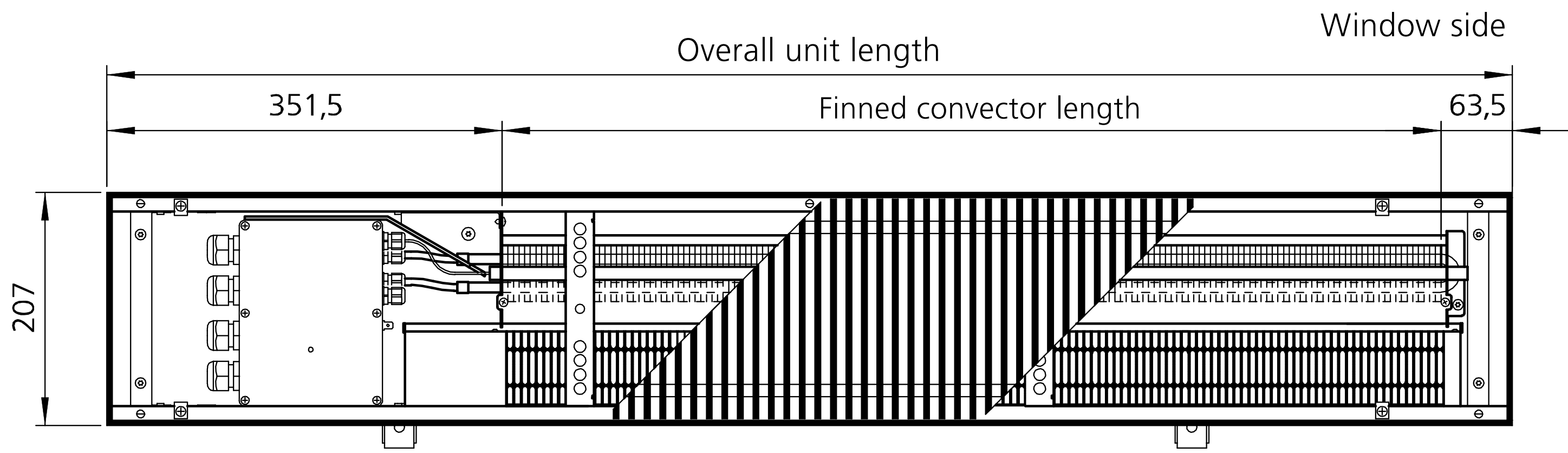
Dimensions



Front view

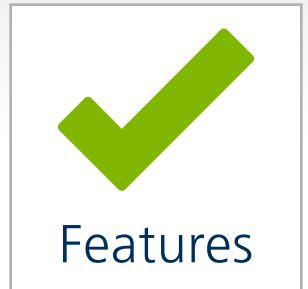


Cross section

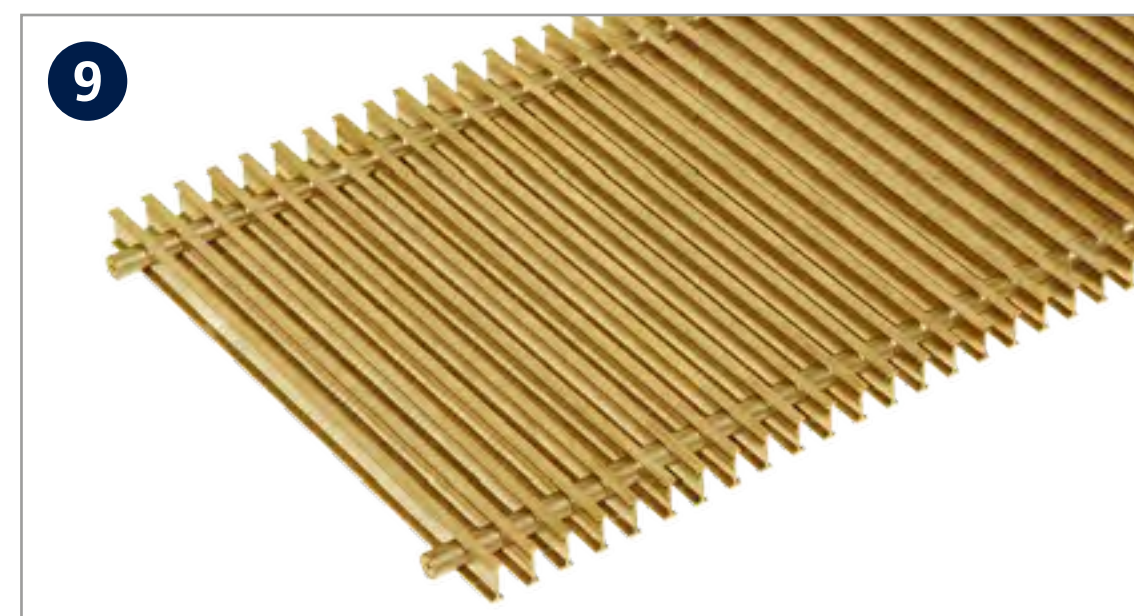
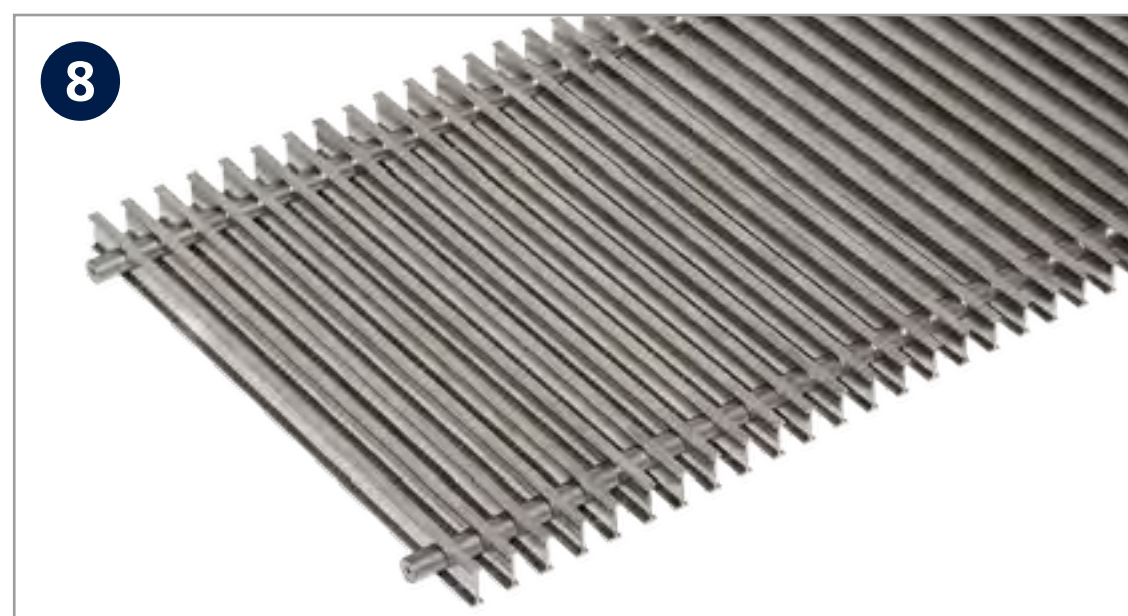
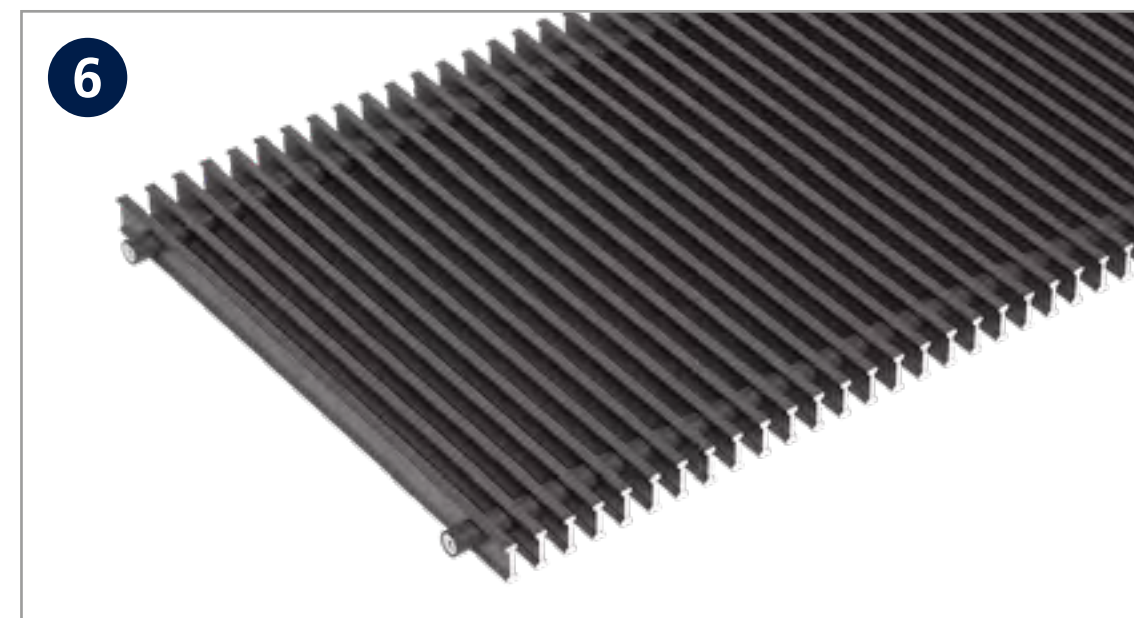
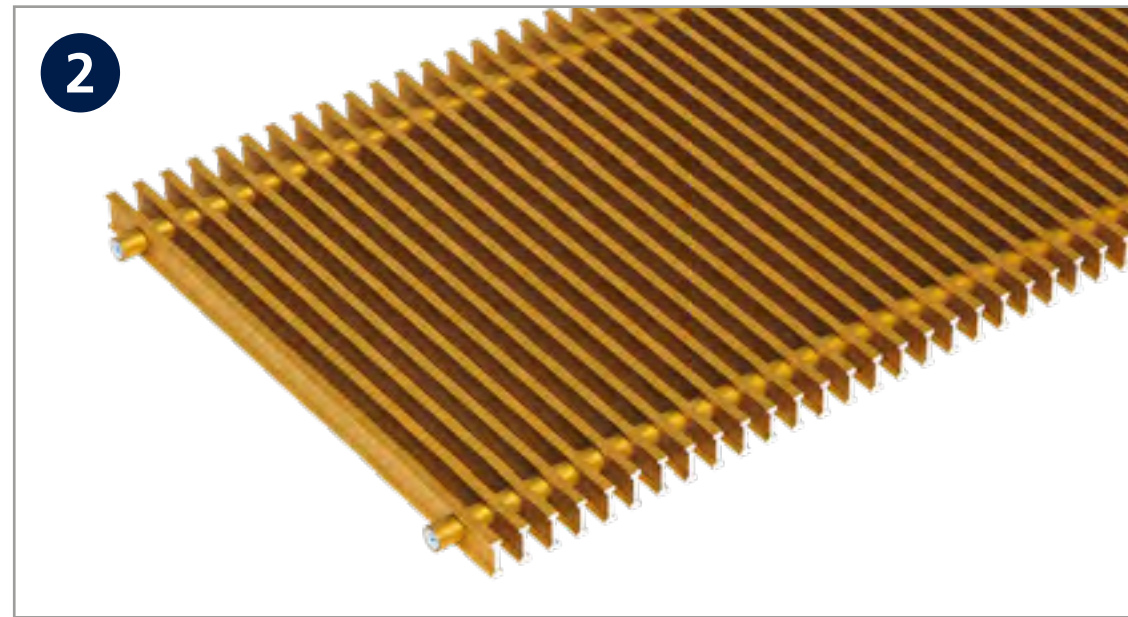
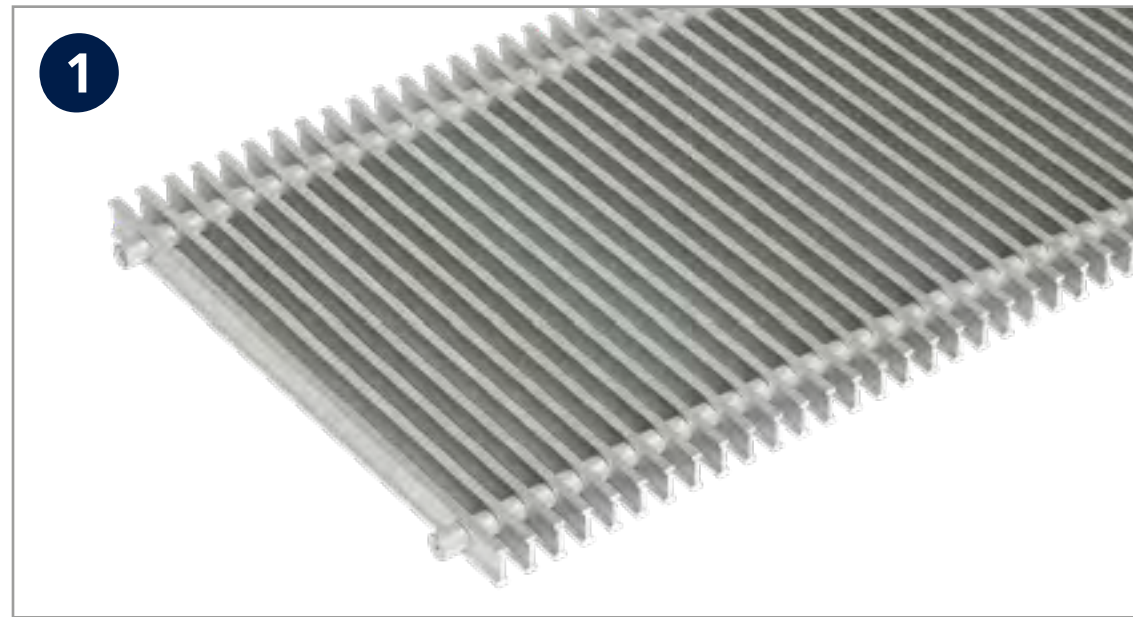


Top view (without cover plate)

Length	Width	Height
[mm]	[mm]	[mm]
825	207	112
1250	207	112
1700	207	112



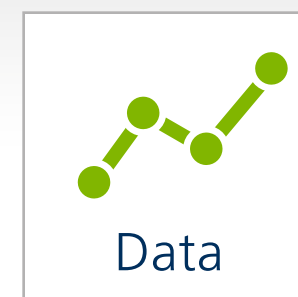
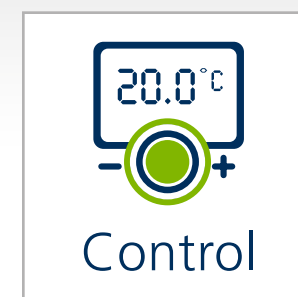
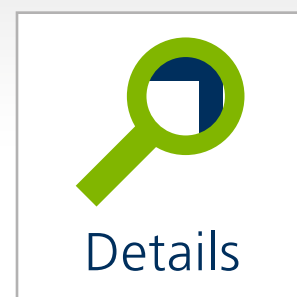
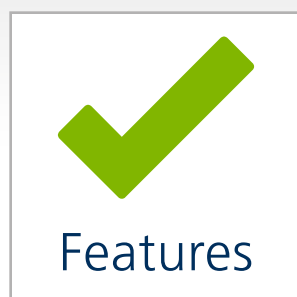
Choice of grilles



- 1 Aluminium, natural anodised
- 2 Aluminium, brass anodised
- 3 Aluminium, bronze anodised
- 4 Aluminium, bronze finish
- 5 Aluminium, black anodised
- 6 Aluminium, basalt grey painted DB 703
- 7 Stainless steel
- 8 Stainless steel, polished
- 9 Brass, natural

Aluminium roll-up grille, natural anodised:

- ▶ double T-profile roll-up grille
- ▶ bar dimension 18 x 5 mm (stainless steel 18 x 6 mm)
- ▶ bar spacing 9 mm (stainless steel 10.5 mm)
- ▶ connections made of corrosion-proof steel springs with spacers in a matching colour
- ▶ 65 % free area



Benefits for you!

Kampmann offers you the following service benefits:

- ▶ on-site consultation
- ▶ planning support
- ▶ site-surveys
- ▶ personal training
- ▶ After Sales Service

Find your contact person here:

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