

Door Air Curtains

Tandem



Step this way

One small step and your customers find themselves in a pleasant sales environment. Open doors lower customers' inhibitions to enter a shop. And at the same time, Tandem air screening significantly reduces energy loss.

Save thermal energy

Tandem Door air curtains use a patented combination of both ambient and warm air streams to achieve energy savings of up to 38 %. The unheated ambient air stream eliminates adverse turbulence improving performance and reducing heat losses to outside. This gives you a significantly faster return on investment.

Advantages 1 | 3

KAMPMANN

A close-up, black and white photograph of metal slats, likely from a ceiling-mounted air conditioning unit. The slats are arranged in a grid pattern, with some in sharp focus and others blurred in the foreground and background, creating a sense of depth and texture.

Defying the weather

Adverse weather, in summer and in winter, stays outside, thanks to the enhanced penetration depth between two parallel air streams of different temperatures.

So diverse

We can help you when it comes to deciding whether your unit should be horizontal, ceiling-mounted or with the appearance of a continuous unit with coupling set. That's what sets Kampmann service apart. All special requests are, of course, always considered.

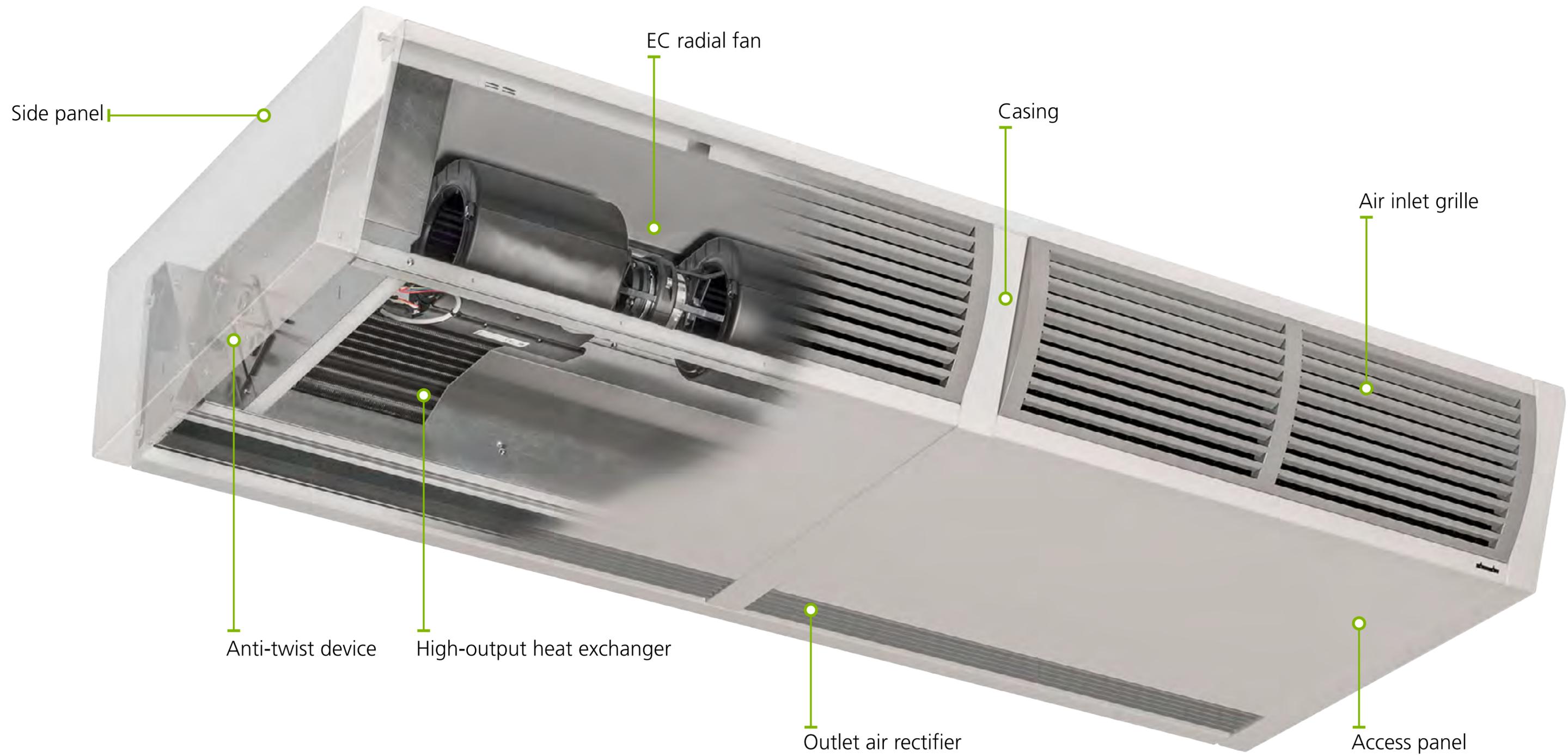


Perfectly controlled

Simple control by the new combined controller. Door air curtains can also be flexibly integrated in automation systems via the BMS interfaces.

Fast delivery

Short delivery times give you flexibility and speed: all standard units are available in the shortest possible time. Following technical clarification, the standard version of the Tandem door air curtain can be delivered within seven days. You can rely on us. After all, your customers rely on you.



Tandem at a glance



Tandem technology

The combination of

- > unheated ambient air stream,
- > increased penetration depth due to the coanda effect, and
- > lower comparative volume of warm air offers energy savings of around 38 %, compared with conventional systems!



Radial fan

- > patented, self-regulating generation of ambient air stream and warm air stream (Tandem technology)
- > infinitely variable



Anti-twist device for heating connection

> prevents damage to the heat exchanger when fitting the valves

> optional: valves (accessories)

Air intake grille

> open with minimal effort

> simple filter replacement (optional) without tools

Vorteile

A close-up photograph of a high-output heat exchanger. The device features a complex arrangement of metal plates and tubes. A prominent copper-colored cylindrical component is visible on the left, connected to a network of aluminum and copper plates. The heat exchanger is mounted within a dark, industrial-looking enclosure. The lighting highlights the metallic textures and the intricate design of the heat transfer surfaces.

High-output heat exchanger
proven combination of copper/aluminium



Outlet air rectifier

> for rectified, low-turbulence air discharge

> up to 20 ° rotatable



KaControl room automation

- > KaControl technology factory-integrated
- > interfaces for BACnet, KNX or Modbus building automation as an optional plug-in group
- > design room control unit with intuitive user navigation
- > integrated timer program



Combined controller

- > fan speed control 0–100 %
- > operation mode switch standby, winter and summer
- > control input door contact for automatic speed-up and device release
- > optional: room temperature
- > mode (standby mode) in absence operation

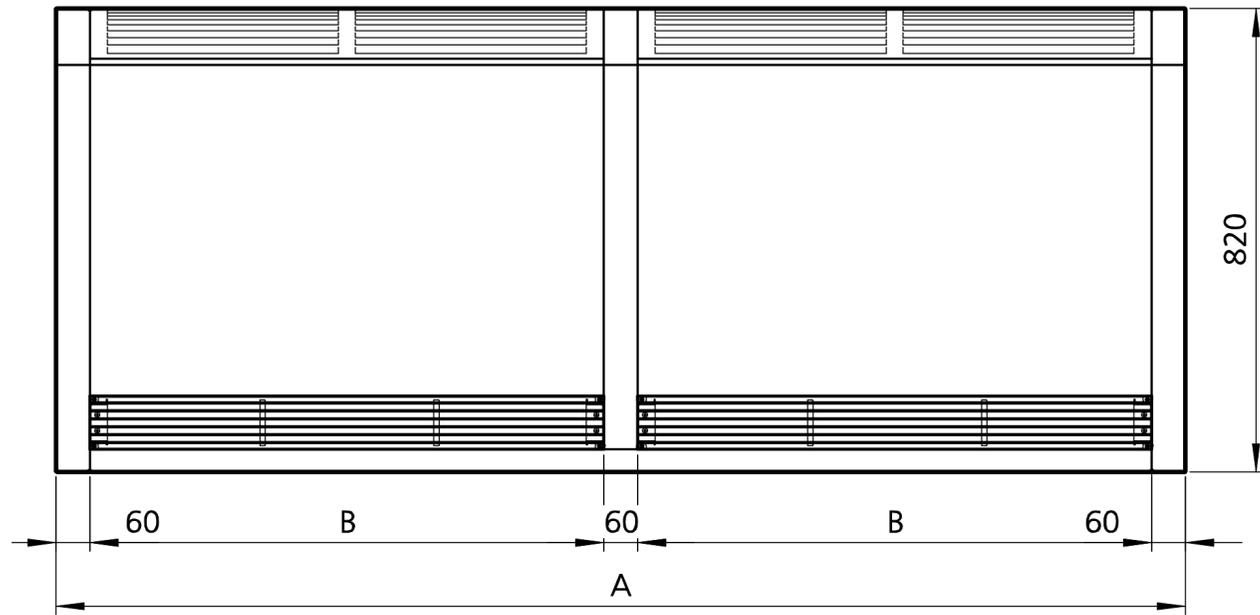
Model	max. discharge height ¹⁾	max. door width	Air volume ²⁾	Heat output ³⁾	Sound pressure level ⁴⁾
	[m]	[m]	[m ³ /h]	[kW]	[dB(A)]
Tandem 300					
12	2,7 - 3,2	1,25	700 - 2030	4,6 - 9,6	32 - 61
20	2,7 - 3,2	2,0	1200 - 3830	8,3 - 18,5	35 - 63
25	2,7 - 3,2	2,5	1480 - 5410	10,8 - 26,5	37 - 63
30	2,7 - 3,2	3,0	1850 - 5810	13,5 - 30,1	37 - 65
Tandem 365					
12	3,4 - 4,0	1,25	1090 - 3090	7,1 - 14,3	33 - 64
20	3,4 - 4,0	2,0	1860 - 5830	12,8 - 27,8	37 - 66
27	3,4 - 4,0	2,75	2550 - 8480	18,1 - 41,3	38 - 67

¹⁾ at good to average pressure ratios/requirements/conditions

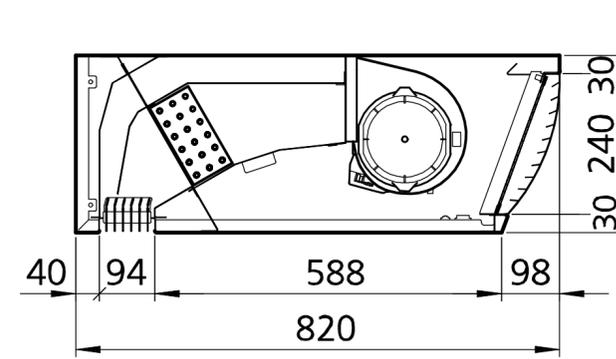
²⁾ total, continuously variable

³⁾ at LPHW 75/65 °C, EAT = 20 °C

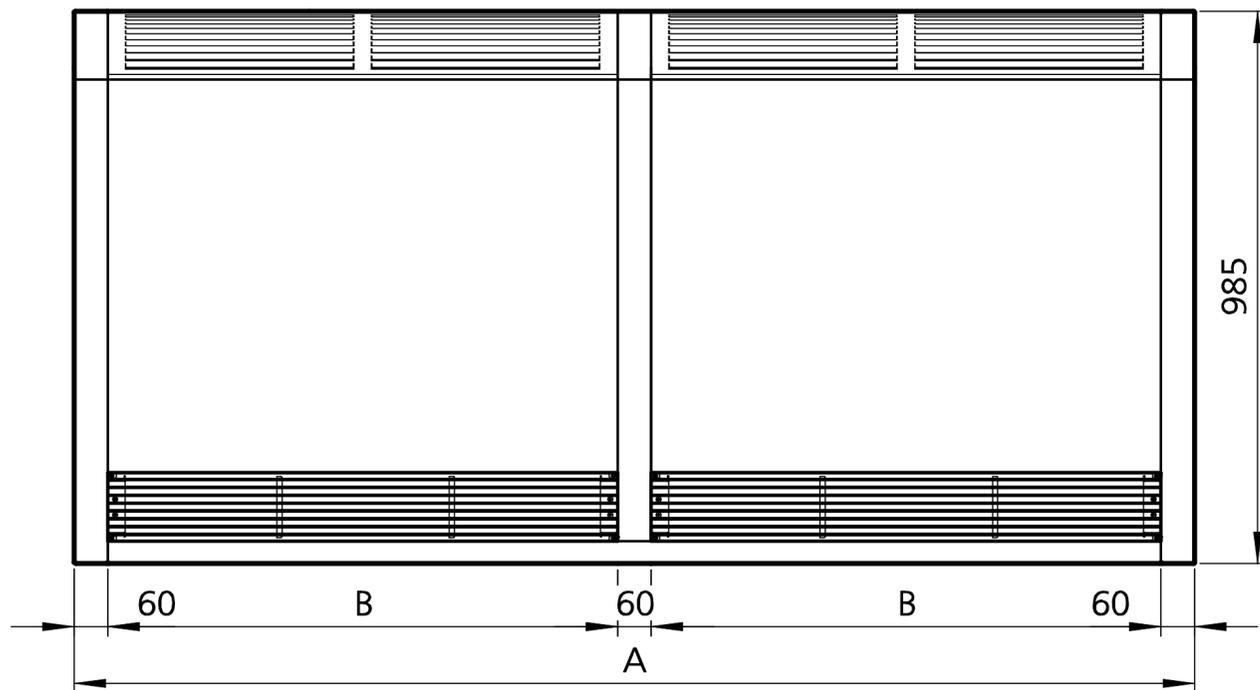
⁴⁾ The sound pressure levels were calculated based on an expected room insulation of 16 dB(A). This corresponds to a distance of 3 m, a room volume of 2000 m³ and a reverberation time of 1.0 s (in accordance with VDI 2081).



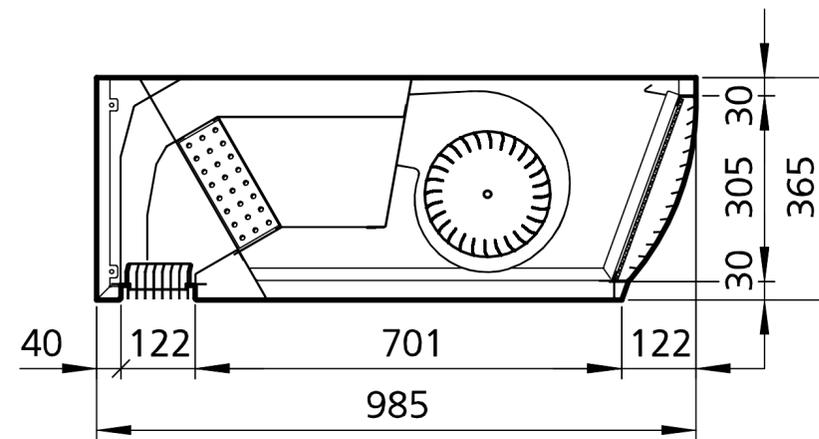
View from below (Ex. Tandem 300 model 20)



Cross section Tandem 300



View from below (Ex. Tandem 365 model 20)



Cross section Tandem 365

Model	A	B
	[mm]	[mm]
Tandem 300		
12	1250	1130
20	2000	910
25	2500	1160
30	3000	1410
Tandem 365		
12	1250	1130
20	2000	910
27	2750	1285



Benefits for you!

Kampmann offers you the following service benefits:

- > on-site consultation
- > diverse sampling
- > design support
- > detailed discussions
- > site-surveys
- > individual training
- > After Sales Service

Find your contact person here:

[Kampmanngroup.com](https://www.kampmanngroup.com)

Contact

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