

Vario

Tandem 385

Door air curtains

UniLine

ProtecTor

Vario Door air curtains

Combating heat losses through open doors



Comfort - even when the doors are open

The screening effect of Vario door air curtains creates a welcoming entrance lobby, an immediate feeling of well-being and a comfortable environment even when the doors are open!

- modular in design, Vario door air curtains can be arranged end to end
- ideal for installation within suspended ceilings
- an extensive range of fixings and controls

Vario door air curtains*

Unit width	m	1,0	1,5	2,0	2,5
Model		horizontal/ vertical	horizontal/ vertical	horizontal/ vertical	horizontal/ vertical
Air volume (max)	m³/h	1390	2130	2820	4000
Heat output (max) 75/65 °C, t _{l,i} = 20 °C	kW	10,2	17,4	24,2	33,9
Heat output (max) 82/71 °C, t _{l,i} = 20 °C	kW	11,6	19,8	27,6	38,6
Max. discharge height	m	2,3 - 2,7			

* Comprehensive technical data and prices can be found in the 1.51 technical brochure and Kampmann HKL Pricelist.



Kampmann door air curtain fitted within a suspended ceiling

Tandem Door air curtains

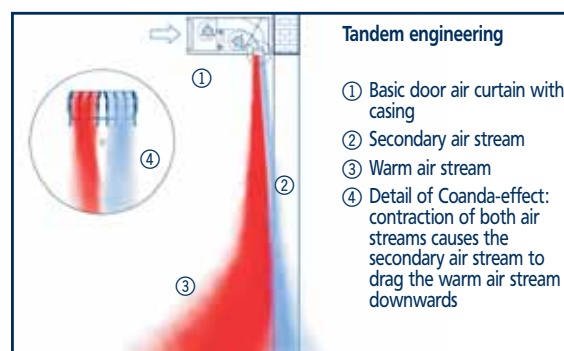
Twice as effective



Tandem door air curtains

fitted with two fan groups positioned above each other. The unheated secondary air stream is up to 38% more energy-efficient than more conventional systems.

- over-sized radial fans which can be switched between 5 fan speeds
- the Coanda-effect has benefits in terms of reducing energy consumption
- modular design
- can be fitted within suspended ceilings



NEW!

Tandem door air curtains 300*

Unit width	m	1,0	1,5	2,0	2,5
Model		horizontal/ vertical	horizontal/ vertical	horizontal/ vertical	horizontal/ vertical
Air volume (max)	m ³ /h	1980	2970	3960	5940
Heat output (max) 75/65 °C, t _{L1} = 20 °C	kW	7,1	11,7	16,3	23,8
Heat output (max) 82/71 °C, t _{L1} = 20 °C	kW	7,8	12,7	17,8	26,0
Max. discharge height	m	2,7 - 3,4			

* Comprehensive technical data and prices can be found in the 2.51 technical brochure and Kampmann HKL Pricelist.

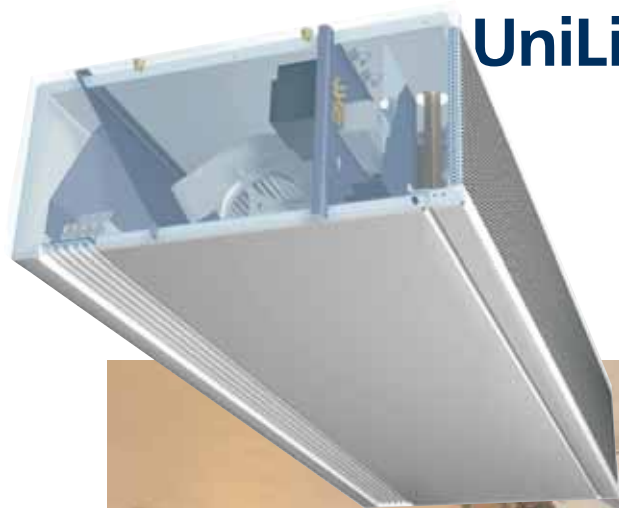
Tandem door air curtains 385*

Unit width	m	1,5	2,0	2,5
Model		horizontal/ vertical	horizontal/ vertical	horizontal/ vertical
Air volume (max)	m ³ /h	4360	5770	8180
Heat output (max) 75/65 °C, t _{L1} = 20 °C	kW	17,4	24,2	33,9
Heat output (max) 82/71 °C, t _{L1} = 20 °C	kW	19,8	27,6	38,6
Max. discharge height	m	3,5 - 4,0		

* Comprehensive technical data and prices can be found in the 2.52 technical brochure and Kampmann HKL Pricelist.

UniLine Door air curtains

Universal yet compact



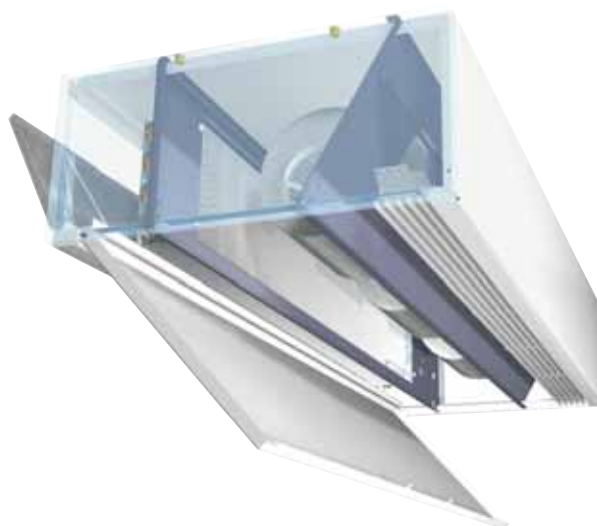
UniLine door air curtain,
illustrated side-on



Universal - easy to fit and low-maintenance

The compact UniLine door air curtain, complete with casing and top panel, is ideal for use in retail warehouses and outlets.

- easy to maintain due to removable induction grille with filter and hinged service panel
- water and electrical connections are made at one end above the casing
- sealed top panel
- powdercoated casing



Induction grille with hinged filter panel and
service panel dropped down

UniLine door air curtains*

Unit width	m	1,0	1,5	2,0	2,5
Air volume (max. fan speed)	m ³ /h	1390	2130	2820	4000
Heat output (max.) 75/65 °C, t _{L1} = 20 °C	kW	10,2	17,4	24,2	33,9
Heat output (max.) 82/71 °C, t _{L1} = 20 °C	kW	11,6	19,8	27,6	38,6
Height/depth	mm	260/580			
Max. discharge height	m	2,3 - 2,7			

* Comprehensive technical data and prices can be found in the 2.53 technical brochure and Kampmann HKL Pricelist.

ProtecTor Door air curtains

A new dimension in door screening



Ideal above industrial entrances

An innovative product for the industrial sector: this door heating system works with both a warm air stream and a secondary cold air stream and provides dynamic air distribution at various fan speeds. The Coanda-effect causes both air streams to contract and thus produces even greater penetration and enhanced screening.

- air is discharged through a wide nozzle
- the **Powerkon** heat exchanger - only one connection to the pipework

ProtecTor door air curtains*

Unit width	m	3,0	3,0	4,0	4,0
Discharge height	m	3,5	4,5	3,5	4,5
Air volume (max.)	m³/h	13900	21500	18500	28600
Heat output (max) 75/65 °C, t _l = 20 °C	kW	65,0	86,7	100,3	133,8
Heat output (max) 82/71 °C, t _l = 20 °C	kW	74,1	98,8	114,3	152,4

* Comprehensive technical data and prices can be found in the 2.55 technical brochure and Kampmann HKL Pricelist.



ProtecTor air flow



Kampmann Door air curtains

Proven quality

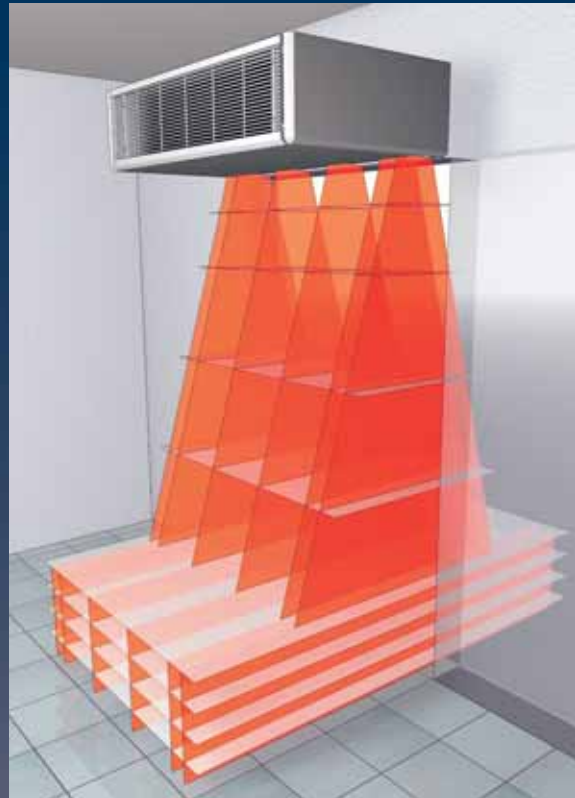
Kampmann door air curtains have been developed to maximise energy-savings yet provide maximum output in terms of air flow and volume. Working closely with external research and test institutes, our in-house engineering team has developed a wide range of units to meet the most diverse applications.

Exhaustive research and development mean that we can now provide detailed calculation data for every design and our advice on selection means that every customer receives the unit which is exactly right for the job!

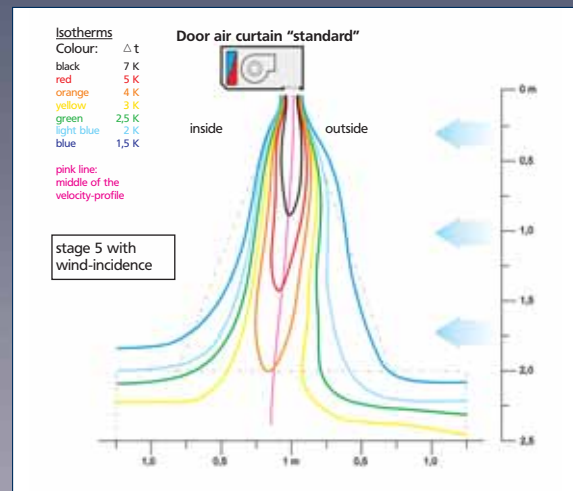
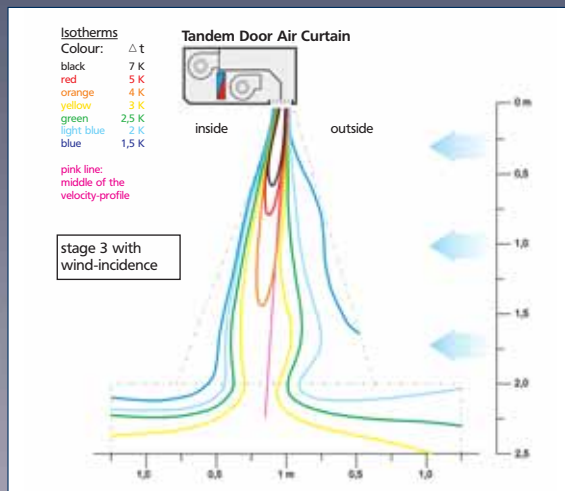
Energy savings of up to 38 %

The "cooler" secondary air stream has greater penetration and thus also works as a "support" air stream for the warmer room-side air stream. These two air streams have a minimal mixing ratio of < 0.2 and so there is virtually no air turbulence.

The lower temperature difference between the secondary air stream and the outside air, the increased penetration caused by the Coanda-effect and the comparatively low air volume produces an energy-saving of 38% when compared with more conventional systems!



Researching a Tandem door air curtain



KAMPMANN

KAMPMANN GMBH • 49794 LINGEN (EMS)
Germany

Friedrich-Ebert-Straße • Postfach 60 44
Tel. +49 (0) 591-71 08-0 • Fax +49 (0) 591-71 08-300
info@kampmann.de • www.kampmann.de

KAMPMANN UK Office • Sunbury Int. Business Centre, Brooklands Close • Windmill Road, Sunbury, Middlesex TW16 7DX
Tel. +44 (0) 19 32-72 40 68 • Fax +44 (0) 19 32-724 218 • info@kampmann-uk.co.uk • www.kampmann-uk.co.uk

Keane Environmental Ltd • Kilkenny Office • Kilcross • Inistioge • Co. Kilkenny
Tel. +353 (0) 56 77 58 524 • Fax +353 (0) 56 77 58 737 • keaneenv@iol.ie • www.kampmann.de