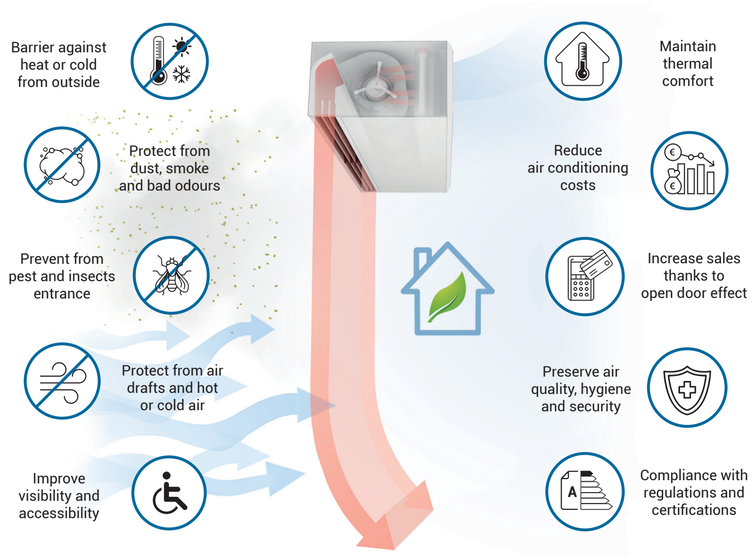
BENEFITS OF AIR CURTAINS

The operation of an air curtain is based on separating two areas using a high-velocity air jet that spans the entire entrance or doorway. This barrier significantly reduces heating and cooling costs—by up to 80%—while maintaining the indoor climate and ensuring optimal comfort for staff, costumers and visitors.



APPLICATIONS

Cold storage

Air curtains for cold storage significantly reduce economic losses and provide effective protection for goods against major temperature fluctuations. Additionally, they enhance safety by preventing slippery floors, ice accumulation, and reduced visibility.

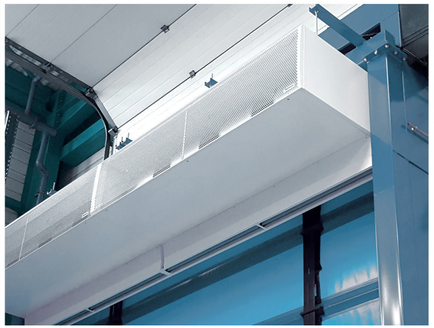
Climate separation

Air curtains are designed to protect climate controlled areas—whether heated or cooled—from the influx of outside air through open doorways. By keeping conditioned air inside the building, they significantly reduce energy costs and contribute to maintain a comfortable environment.

Flying insect prevention

Pest control is crucial in the food industry, whether in manufacturing facilities, warehouses, or retail establishments selling packaged or ready-to-eat food products. Insect control air curtains are used when necessary to prevent flying insects from entering these buildings.

rosenberg



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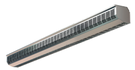
AIR CURTAINS SELECTION

Airtècnics air curtains ensure an efficient climate separation in all commercial and industrial entrances. Our high quality, energy saving air curtains perfectly combine advanced technology with exclusive beauty, and a high level of customization.

airtècnics

COLD STORAGE PROTECTION

Airtècnics air curtains in cold storage rooms and industrial freezers are a highly effective solution to prevent cold air loss, ice formation, and condensation when doors are opened. They complement high-speed roll-up doors by improving accessibility, enhancing safety, and delivering up to 80% energy savings, while maintaining optimal storage conditions.


Airtrack

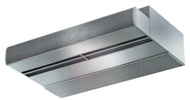

Optima K


Twin Kool


Twin KPL


Kool / Kool IP55


Kool SB-BB


Triojet System / Triojet System Double Heating

AIR CURTAIN Recommended Airflow Speed = 1,5 m/s (max)					COLD STORE						
					TEMPERATURE			AIR CURTAIN FUNCTIONS			CONSIDERATIONS
					Refrigeration	Freezing					
Model	Configuration			Air jet range	> 0 ºC	0 ºC -25 ºC	-25ºC -40ºC	Climatic separation	Ice reduction (door and entrance floor)	Ice and fog removal + humidity reduction	
	Fans	H	I								
AIRTRACK	-	A	HO	2,7 m	✔	✔	-	✔	-	-	Basic protection (1 air jet). For refrigerated vehicles.
OPTIMA K	-	A	HO	3 m	✔	✔	-	✔	✔	-	Basic protection (1 air jet). At >0ºC for any chamber size and door opening time. [*] At <0ºC only in certain conditions, for small and medium-sized chambers and short or medium door opening time. Pre-chamber without control (temperature and humidity).
KOOL	M	A	HO VE	3,5 m		[*]			[*]		
	ECM			3,8 m							
	G			4,5 m							
	ECG			5 m							
KOOL IP55	M	A	HO VE	3,5 m							
	G			4,5 m							
KOOL SB	SB	A	HO VE	5 m							
KOOL BB	BB			7 m							
TWIN KOOL	G	A	VE	4,5 m	✔	✔	-	✔	✔	-	Double protection (2 air jets). For any chamber size. Short or medium door opening time. Pre-chamber without control (temperature and humidity).
TWIN KPL	ECG			5 m							
TRIOJET SYSTEM	-	E	HO VE	5 m	-	✔	-	✔	✔	✔ [**]	Triple protection (3 air jets). For any chamber size. For any door opening time. [**] Only with pre-chamber with temperature and humidity control.
TRIOJET SYSTEM DOUBLE HEATING	-	E	HO VE	5 m	-	-	✔	✔	✔	✔ [**]	

HEATING (H): Air-only (A); Electrical (E).
INSTALLATION (I): Horitzontal (HO); Vertical (VE).

CLIMATE SEPARATION

Airtècnics air curtains for climate separation are designed to maintain stable indoor temperatures and reduce energy use by creating an invisible barrier between indoor and outdoor environments. Available in various sizes, power levels, and installation types, they adapt to all kinds of entrances—from office doors to large industrial openings.

AIR CURTAIN Recommended Airflow Speed = Between 2 to 4 m/s					
	Configuration				CONSIDERATIONS
Model	Fans	H	I	Air jet range	
MINIBEL	-	A, E	HO	1,8 m	Kiosks, windows, booths and small sized places with low pedestrian flow.
OPTIMA / SWITCH [2] **R.OPTIMA / R.SWITCH** [2] **TOP**	-	A, E, P	HO	2,2 - 2,8 m	Designed for effective climate separation in small and medium sized commercial doors with a medium pedestrian flow. Integration with BMS and advanced control options available for optimized performance and energy efficiency.
ARIS	-	A, E, P	HO	2,5 - 3,5 m	
WINDBOX **R. WINDBOX** [1] **DAM**	M	A, E, P	HO VE	2,5 - 3,5 m	Suitable for medium-sized commercial doors with high pedestrian flow. Designed for effective climate separation and protection against external agents. Offer multiple installation options, including exposed and surface mounting, as well as recessed and concealed configurations. Compatible with false ceilings, bulkheads, and customized architectural integrations. Integration with BMS and advanced control options available for optimized performance and energy efficiency.
R. DAM [1] **INVISAIR** **SMART** [1]	ECM	A, E, P, DX		2,5 - 3,8 m	
ZEN **KOOL** [2]	G	A, E, P		3 - 4 m	
RUND **ROTOWIND** [1] **R. COMPACT** [1] [2]	ECG	A, E, P, DX		3 - 4,2 m	
WINDBOX **R. WINDBOX** [1] **KOOL** [2]	SB	A, E, P, DX	HO VE	3,5 - 5 m	Suitable for medium and large-sized commercial and industrial doors with high pedestrian flow. Designed for effective climate separation and protection against external agents. Offer multiple installation options, including exposed and surface mounting, as well as recessed and concealed configurations. Compatible with false ceilings, bulkheads, and customized architectural integrations. Integration with BMS and advanced control options available for optimized performance and energy efficiency.
INVISAIR **ZEN** **ROTOWIND** [1]	BB	A, E, P, DX	HO VE	5 - 7 m	
WINDBOX **ZEN** [3]	L	A, E, P, DX	HO VE	4 - 5 m	
	LT			4 - 6 m	
	XL			5 - 7 m	
	XLT			5 - 8 m	
MAXWELL	AC	A, E, P	HO VE	4 - 6 m	Large industrial doors (warehouses, hangars, factories, logistic centres or loading bays). Advanced control options available.
	EC	A, E, P	HO VE	5 - 8 m	

HEATING (H): Air-only (A); Electrical (E); Water (P); Heat Pump (DX).
INSTALLATION (I): Horitzontal (HO); Vertical (VE).

[1] Horizontal installation only. [2] Air-only operation.
[3] LT and XLT configurations only for Windbox.

INSECT PREVENTION

Airtècnics air curtains for insect prevention are engineered to create a powerful, uniform air barrier at entrances, effectively blocking flying insects to ensure hygiene and safety. Compliant with NSF/ANSI 37 standards, they are available in various sizes and airflow configurations, making them ideal for food establishments and industrial applications.


Compact Fly


Fly K


Fly KSB-KBB


Fly KL / KXL


Fly KSB-KBB Duo System Without Plenum


Fly KSB-KBB Duo System With Plenum


Fly KLXL Duo System Without Plenum


Fly KLXL Duo System Without Plenum

AIR CURTAIN			NSF/ANSI 37 STANDARDS				CONSIDERATIONS
			SERVICE WINDOWS	SERVICE DOORS		CUSTOMER ENTRANCES	
Model	Configuration		Recommended Airflow Speed = 3,05 m/s 1/3 above base	Recommended Airflow Speed = 8,1 m/s 0,91 m above floor	Air jet range	Recommended Airflow Speed 3,05 m/s 0,91 m above floor	
	H	I					
COMPACT FLY	A	HO VE	✔	-	-	-	Designed to prevent flying insects from entering drive-thru windows, toll booths or kiosks.
FLY K	A	HO VE	-	✔	2 m	✔ [*]	Compatible with commercial entrances and small to medium industrial service doors, such as supermarkets, shops, restaurants and food establishments.
FLY KSB FLY DUO KSB	A	HO VE		✔	2,3 m	✔ [*]	
FLY KL FLY DUO KL	A	HO VE	-	✔	3 m	-	Optimized to minimize insect intrusion in medium to large industrial service doors, including industrial, pharmaceutical, and farming environments such as food processing plants, logistics centers, warehouses, and livestock facilities. The optional DUO System features a dual air barrier for enhanced insect control in the most demanding applications.
FLY KBB FLY DUO KBB	A	HO VE	-	✔	3,5 m	-	
FLY KXL FLY DUO KXL	A	HO VE	-	✔	4 m	-	

HEATING (H): Air-only (A)
INSTALLATION (I): Horitzontal (HO); Vertical (VE).

[*] For additional insect control air curtain solutions and applications within the commercial range, please consult other available models.