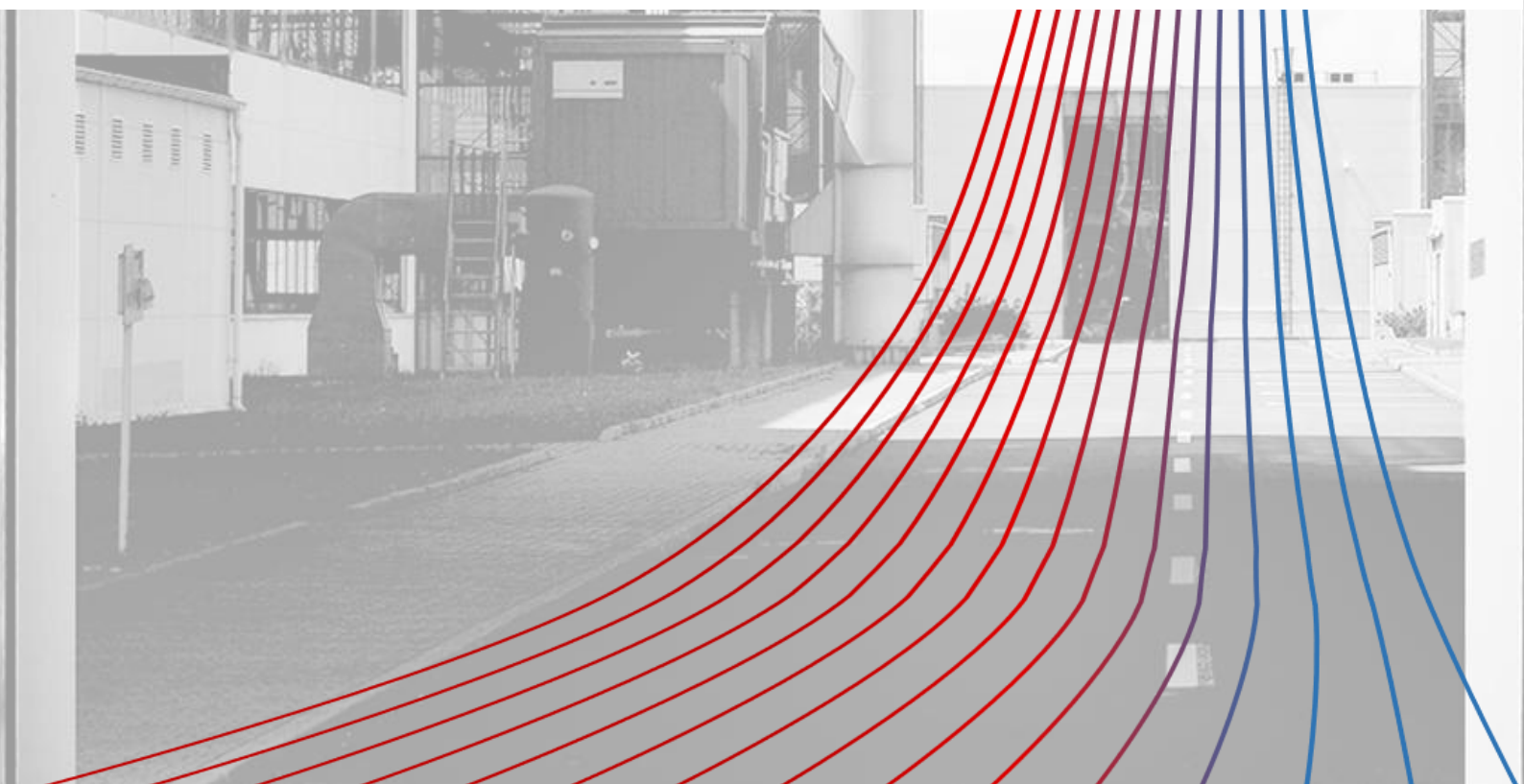
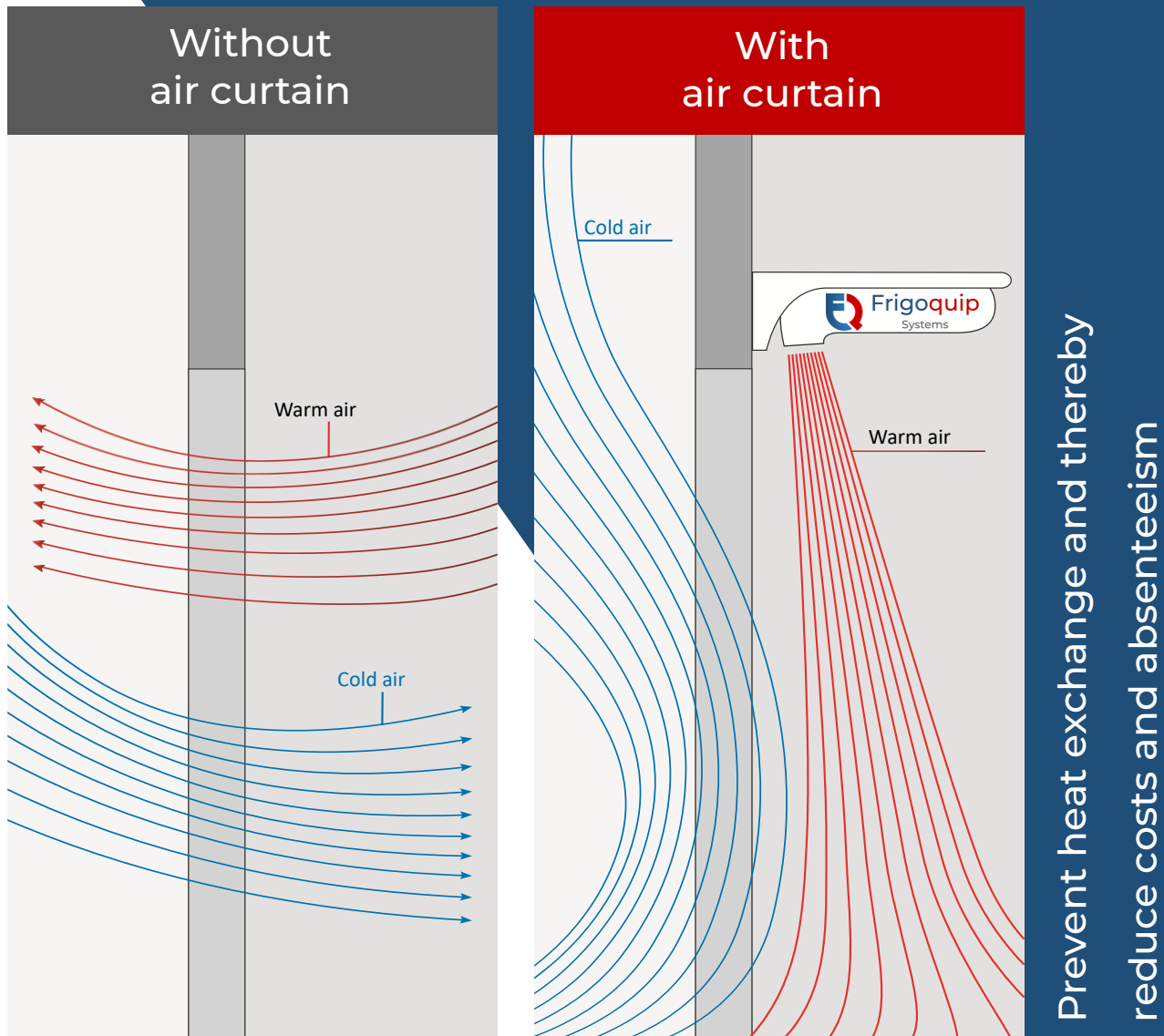




Product overview



AIR CURTAIN

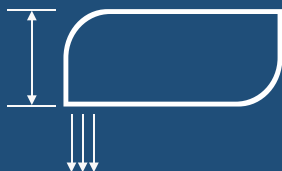


Casing: stainless steel or aluminium composite from the market leader, therefore corrosion-resistant and sound-insulated. In addition to the standard platinum white, 7 further RAL colours are available. For added exclusivity, an adhesive wrap in a custom colour or with your logo is also possible.

Ventilation: Very robust, energy-efficient and quiet EC fans with very fast start-up, consuming on average 37 % less energy than AC fans. We use fans from the global market leader. Further advantages: flexible speed control (also continuous) and IP54-protected electronics.

VERSIONS

UNDER THE CEILING

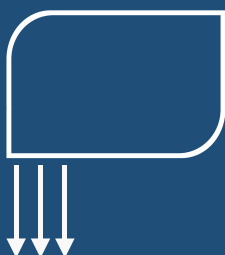


FLAT

flat



UNDER THE CEILING



EXTRA POWER

extra power



ON THE WALL



SLIM

slim



Beside the gate / door



VERTICAL

side



RANGES



$\alpha | \delta | \epsilon$

Flat
flat

**ALPHA / A
DELTA / D
EPSILON / F**

ALPHA, DELTA & EPSILON are the evolution of the proven A, D & F ranges and stand out above all for their extremely flat construction, allowing installation directly above the door or gate even in the most confined spaces - **More power, less space required**

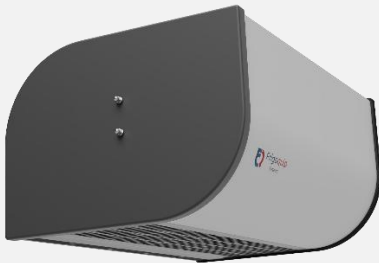


$\alpha^+ | \delta^+$

SLIM
slim

**ALPHA+ / RA
DELTA+ / RD**

The ALPHA+ & DELTA+ evolutions of the proven RA & RD ranges impress with their particularly slim design, for a compact wall mounting that wastes no valuable space. Perfect for any demanding installation situation - **Maximum power in minimum space**



$\sigma | \omega$

EXTRA POWER
extra power

**SIGMA / S
OMEGA / X**

SIGMA & OMEGA are the evolution of the high-performance S & X ranges and impress for room heights up to 8.5 m - **Maximum power for great heights**



VERTICAL
side

All ranges are also available in a vertical version with integrated impact protection – ideal for the lateral sealing of tall gates. For very wide gates, several units can operate as a network for optimal, uninterrupted sealing - **vertical, protected and networked**

RANGES



The HELLOVENT range is based on our successful A model and was specially developed for the requirements of retail. This includes flexible mounting options: on the ceiling with threaded rods or in a suspended ceiling - **The winning formula for retail**



The LAMBDA range excels in simple applications, for example cold stores with a refrigerated airlock and low temperature difference. For demanding operating conditions, we recommend the LAMBDA DUPLEX: two separate air streams – one for the cold zone, one for the warm zone – reliably reduce ice and fog formation. For an optimal result, we recommend combining it with our air-handling unit - **the right solution for cold and freezer rooms.**

See for yourself – request your personalised quote now or contact us for individual advice.



Series	Installation height optimal	Installation height maximum	Door / gate width maximum	Temperature minimum	Temperature maximum	EC technology	Fast start-up	Heating possible	Special filters possible
α	3.00 m	3.50 m	7.50 m	-25°C	+50°C	X	3 s	X	X
δ	4.00 m	4.50 m	7.50 m	-15°C	+50°C	X	4 s	X	X
ε	2.75 m	3.25 m	7.50 m	-15°C	+50°C	X	4 s	-	-
α^+	3.50 m	4.00 m	7.50 m	-25°C	+50°C	X	3 s	X	X
δ^+	4.50 m	5.00 m	7.50 m	-15°C	+50°C	X	4 s	X	X
σ	6.50 m	7.00 m	7.50 m	-25°C	+50°C	X	4 s	X	X
ω	8.00 m	8.50 m	7.50 m	-25°C	+50°C	X	4 s	X	X
α^x	3.75 m	11.25 m	5.50 m	-25°C	+50°C	X	3 s	X	X
δ^x	3.75 m	11.25 m	7.50 m	-15°C	+50°C	X	4 s	X	X
ε^x	3.75 m	11.25 m	5.00 m	-15°C	+50°C	X	4 s	-	-
α^{+x}	3.75 m	11.25 m	6.50 m	-25°C	+50°C	X	3 s	X	X
δ^{+x}	3.75 m	11.25 m	8.50 m	-15°C	+50°C	X	4 s	X	X
σ^x	3.75 m	11.25 m	12.00 m	-25°C	+50°C	X	4 s	X	X
ω^x	3.75 m	11.25 m	15.00 m	-25°C	+50°C	X	4 s	X	X
h	3.00 m	3.50 m	7.50 m	-25°C	+50°C	X	3 s	X	X
λ	3.00 m	4.50 m	7.50 m	-25°C	+50°C	X	3 s	-*	X
λ^2	3.00 m	4.50 m	7.50 m	-25°C	+50°C	X	3 s	-*	X

*Frost protection possible

BENEFITS



Energy saving

Reduced electricity costs thanks to the prevention of cold-air losses.



Impeccable hygiene

All hygiene requirements of the food industry are met. No more contamination of goods.



Smooth operational flow

Goods can be transported freely, comfortably and quickly through the unobstructed door opening.



Stop to insects

The penetration of insects, dust and smoke is almost completely prevented.



Ice-free freezer room

Strongly reduced ice formation on goods, ceiling, floor and evaporator.



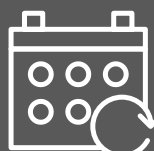
Goods protection by air curtain

The temperature rise in the freezer room is avoided and your goods are protected from any damage.



Accident prevention

Safe movement of goods is guaranteed. Clear visibility for accident prevention.



Long service life of the air curtains

The air curtain is installed above the door, therefore out of the transport zone. Damage is thus practically impossible.

INVESTMENT

An air curtain keeps the expensive air where it belongs: the cold in the cold store, the conditioned air in the hall, summer and winter alike. Two typical application cases show how quickly the investment pays off.

Example 1: freezer room
Keep the cold inside
Frigovent A-175

Door (W × H) 1.5 × 2.4 m

Temperature difference 37 K

Cooling load with door open ~ 98 kW

Electricity saving ~ 21,500 kWh/yr

Net saving ~ 4,200 €/yr

Investment 4,700 €

Payback less than 1.5 years

Example 2: hall gate
Keep heat and cold inside
Frigovent D-425

Gate (W × H) 4.0 × 4.0 m

Temperature difference winter 15 K

Temperature difference summer 10 K

Heating saving (winter) ~ 5,700 €/yr

Cooling saving (summer) ~ 1,700 €/yr

Net saving ~ 6,000 €/yr

Investment 15,490 €

Payback approx. 2.6 years

4,200 – 6,000 €
saving per year and per
installation

1.5 – 2.6
years until payback

8 – 15 t
less CO₂ per year and per
installation

Additional benefits beyond energy saving alone

- Less ice in the freezer zone, therefore reduced defrosting and cleaning costs
- Stable temperatures protect goods and reduce absenteeism (no draughts)
- Extended service life of cooling and heating thanks to reduced continuous load
- Protection against insects, dust, draughts and humidity

Example calculations based on common assumptions. Freezer room: interior -22 °C, airlock +15 °C. Hall gate: heating interior +20 °C / exterior +5 °C on average over the heating period (6 months), air conditioning interior +22 °C / exterior +32 °C in summer (4 months), 2 months out of service; approx. 6 h of opening per day. Electricity 0.25 €/kWh, gas 0.09 €/kWh, COP cooling 1.8 / air conditioning 3.0, 75 % reduction of air exchange, after deducting the fans' own consumption. Actual values depend on the application. We are happy to prepare an individual profitability calculation for your application.

MOUNTING

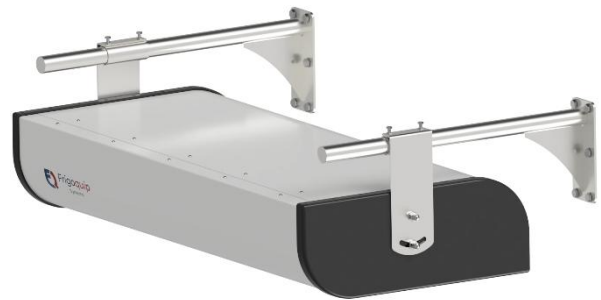
Standard construction width

Stainless steel version



Reduced construction width

Stainless steel version



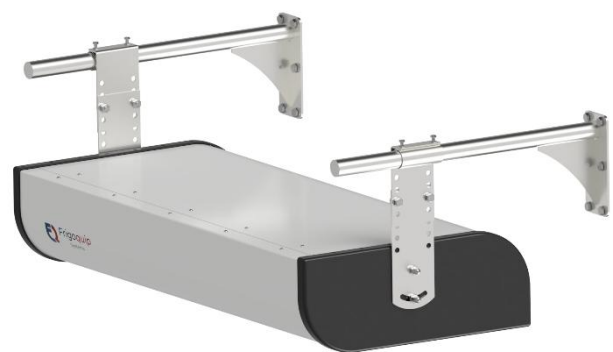
Ceiling mounting

Stainless steel version



Variable mounting height

Stainless steel version



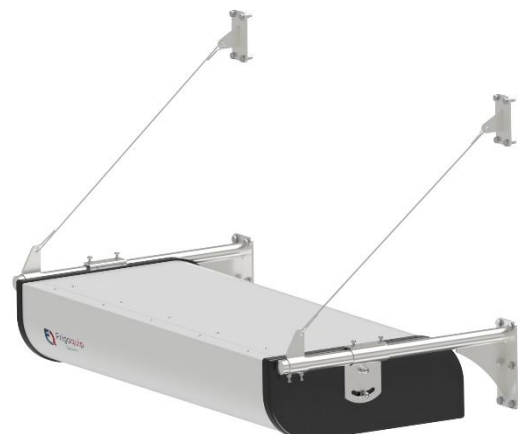
Side mounting

Stainless steel version



Suspended mounting

Stainless steel version



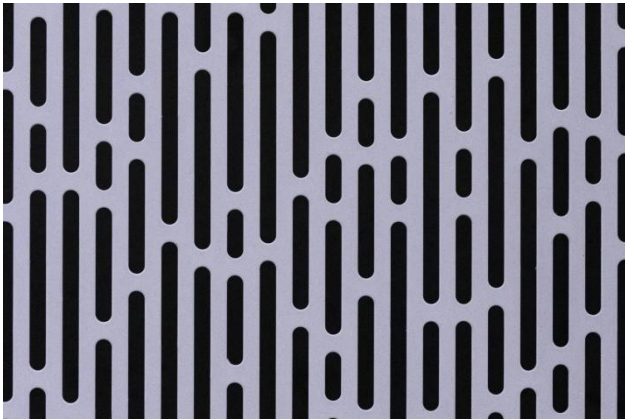
Industrial adsorption air dehumidifiers



Monoblock / refrigeration unit



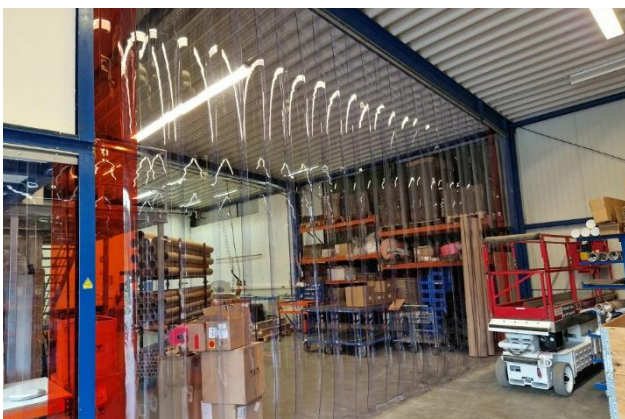
The right filter: G4, M6, F7 or rather a grease filter?



Swing, sliding and double-swing doors or roll-up doors for cold stores



FRIGOFLEX strip curtains



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