

Coolline

Cold Storage Air Curtains



Keep the heat away

Energy losses

– *make it easy*



To use air curtains without heat to maintain the cold temperature in cold storage is a sensible choice. Energy losses are reduced, delicate products are better protected and the accessibility by people and forklifts is improved. An air curtain is also a sensible choice from a safety aspect since the visibility is improved and ice build-up on the floor prevented.

Using an air curtain with the proper performance is important. We offer air curtains with a consistent air stream and optimal balance between air speed and air volume giving a superior performance.

The ability to adjust the airflow to local conditions is fundamental to achieve the desired result. Gelu-Frico air curtains are therefore designed for flexible adjustment and are also supplied with a simple but efficient adjustment gauge that helps you set the air curtain for optimal performance.

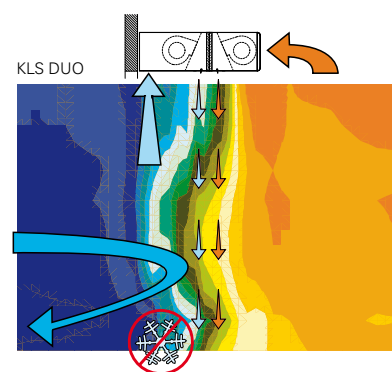
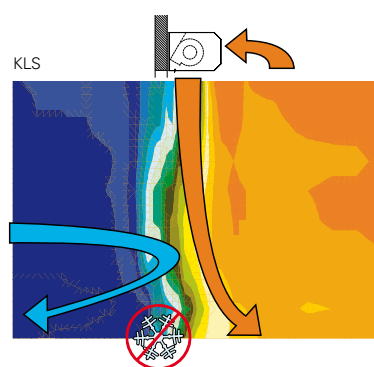
Site test run at BÄKO-Lichtenstein / Sachsen

Temperature inside	
	with air curtain without air curtain
before opening door	-18,2 °C
after 2,5 min	-12,4 °C -0,2 °C
temperature increase	5,8 K 18 K
equalizing time	ca 14 min ca 26 min

N ₂ O-trace gas concentration inside	
	with air curtain without air curtain
before opening door	480 ppm 358 ppm
after closing door again in balanced conditions	358 ppm 110 ppm
decrease	-25 % -70 %

1994.06 by Steinbeis-Transferzentrum / University
Offenburg, Prof. Dr.-Ing Siegmund Hesslinger.

Keep the cold air inside the cold storage. Prevent ice build-up.



Stay cool — use our solution



KLS

A very good value for money air curtain system with the highest cooling energy saving effect.



KLS-DUO

Air curtain system with double outlet technology for cold storage and freezing room opening with big temperature difference across.



ADA-COOL

ADA Cool air curtains are intended for permanent installation above cold store openings with heights of up to 2,5 metres.

Area of installation

Coolline air curtains are installed on cold storage and freezing room doors and can be mounted in different lengths on doors up to 3,2 m height.

The units are mounted outside of the cold room, immediately above the door, suck in warm air and create a consistent air curtain across the door.

For optimum operation the direction and the speed of the air stream are essential. It should be directed vertically or slightly angled to the warm side and the speed (adjustable in 5 steps) should be just about so high that the stream reaches the floor and as little cold air as possible is induced.

Special features / advantage of Gelu-Frico's air curtains

Economy

- Reduced cold losses. To cool down air is extremely expensive and large savings can be made
- The cooling equipment will have longer life and increased efficiency as ice build-up is reduced
- Energy is also saved through reduced need for defrosting
- Avoiding accidents and reducing maintenance on cooling equipment also means no costs for equipment being idle.

Safety

- Higher visibility due to reduced condensation and no plastic strips hindering visibility
- Ice build-up on the floor is prevented

Hygiene

- A more stable temperature means better quality control
- Double inlet fans with protection class IP44 (splash-proof design) that create an even air distribution.
- Where special demands regarding cleaning is applied the KLS and KLS-DUO can be delivered in stainless steel EN/DIN 1.4301 with IP44 casing.

Low sound level

- The fans we use and our optimized air flow geometry gives a low sound level.

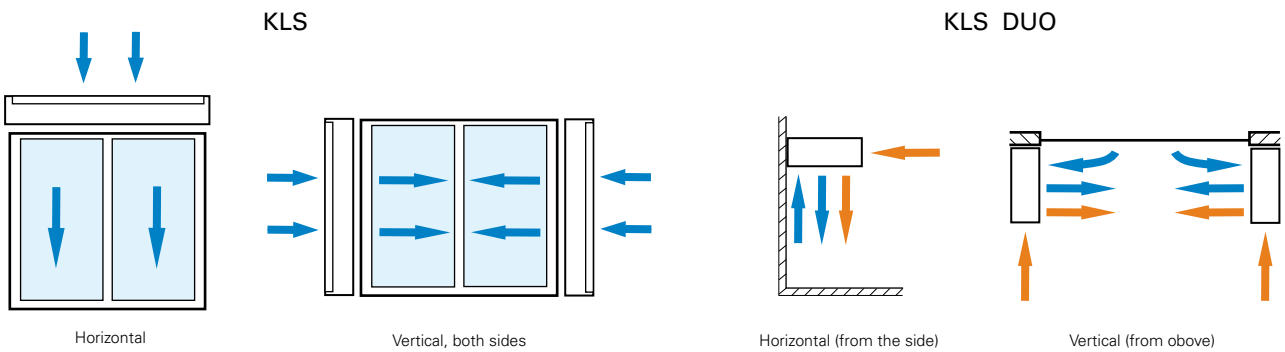
Accessibility

- Easier access for people and vehicles





GELU-Frico has embodied competence and innovation in air curtain technology for 30 years now.



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