



Dual Air Curtain Technology



Improved Energy Efficiency and Shopping Experience

Open cabinets generate higher sales rate compared to closed cabinets as they provide better visibility, have easy access to products and encourage impulse purchases. It is very important that customers do not feel cold standing in front of the cabinet when they make decisions on food purchasing.

For store managers, it also means energy savings, because simple open cabinets consume more energy resulting from the high temperature difference between the product display area and the outside ambient air (the difference is approximately 20 °C).



How Does it Work?

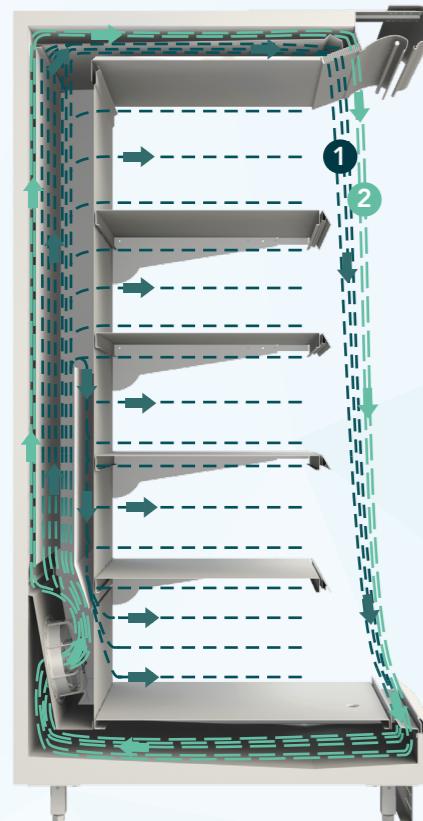
The airflow, that is cooled by evaporators, is separated into two curtains – inner and outer air curtain.

The inner cooling air curtain ensures accurate temperature in every shelf of the refrigerated merchandiser. It is directed towards the product display area within the cabinet, the chilled air flows down along the open front of the cabinet and is guided through the cabinet again into the loop.

The outer air curtain functions as a buffer between the inner curtain and the ambient air surrounding the open front of the cabinet so that the heat exchange would be reduced to a minimum. It has a warmer air, so it protects the colder, inner air curtain from the impact of ambient air and also ensures that the customers do not feel the cold when standing in front of the merchandiser while choosing goods.

1 - Inner air curtain

2 - Outer air curtain



FREOR Dual Air Curtain

We have designed Dual Air Curtain to make temperature differences as low as possible to lower energy consumption and, as a result, the operating costs. FREOR's Dual Air Curtain is a unique airflow management system, designed for open and closed multidecks to ensure customers comfort and deliver energy savings.

FREOR's Dual Air Curtain can save about 20 % of energy compared to simple open front multideck units, because less cold air is wasted. It has a significant impact on supermarkets, where refrigeration usually accounts for up to 50 % of energy consumption. Therefore, Dual Air Curtain is a preferred option for retailers seeking reduced energy usage.



Temperature stability



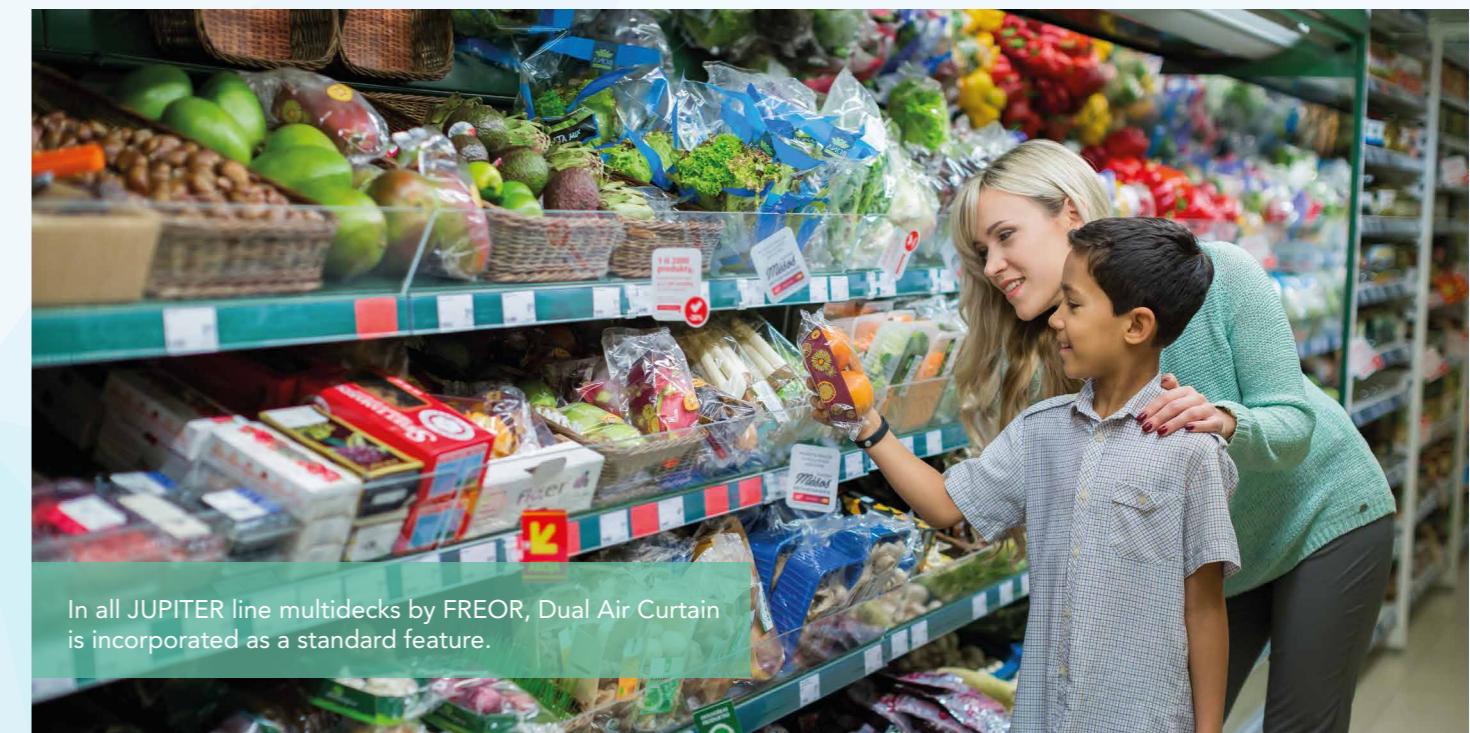
Lower energy consumption



No cold air sensation



Environmentally friendly



In all JUPITER line multidecks by FREOR, Dual Air Curtain is incorporated as a standard feature.

Benefits of FREOR's Dual Air Curtain System

FREOR Dual Air Curtain is a preferred option for the following reasons:

- | No cold air in front of the cabinet – higher sales rate as a result;
- | Lower energy consumption – cost savings;
- | Improved temperature stability – better food preservation;
- | Easy access to products – improved customer experience;
- | Easy restocking – more comfortable working environment for store employees;
- | Providing a more comfortable working environment for supermarket employees.



Innovative food refrigeration solutions for every store!

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