



ECO SEMI

Glass covers for semi-verticals

- Roller-guided, frameless glass covers
- Even chilling ensures temperature safety for product
- Decrease of your operating costs
- Easy handling
- System suitable for OEM assembly as well as remodeling or retrofit of refrigerated cases of most manufacturers
- Intelligent lighting options with various illuminants
- In single- and insulated glass available



Energie saving – in the first place

PAN-DUR stands for development, manufacturing and sales of innovative systems for intelligent energy use.

Since 1986 PAN-DUR offers technical know-how, engineering competence and attractive design – underlined by numerous national and international patents.

We provide one-stop solutions – customised design, modular concept, highest flexibility and planning freedom for your projects.

A cost efficient investment – in all respects

Installing our ECO SEMI systems results in a significant reduction of energy consumption. **Your investment results in rapid payback.**

Active environmental awareness – image improvement

The ecological awareness is increasing steadily and is becoming an ever present key topic. Our ECO SEMI glass covers actively support the climate protection – global warming has to be reduced.

Well-conceived, detailed solutions

ECO SEMI glass covers are suitable for OEM assembly as well as for remodeling or retrofit of refrigerated cases of most manufacturers. Attractive design is in compliance with all requirements of refrigeration technology and food industry.

Pre-assembled modules guarantee easy and quick assembly.





Temperature safety and easy handling

Constant product temperature

Installation of PAN-DUR ECO SEMI glass covers for semi-verticals ensures constant cooling temperatures required for optimum product quality.

PAN-DUR ECO SEMI glass covers are in conformity with the highest requirements for quality, technology and functionality. PAN-DUR systems support national and international standards such as German Food Hygiene Regulation (LMHV) and international HACCP Regulation.

Product presentation – transparent and spacious

Customers perceive our energy saving systems as a protection which guarantees product quality and in no way as an obstacle. Consumer's impulse to buy is not disturbed. Top-quality materials and modern technology stand for optimal presentation of products and clear overview.

Feathery sliding glass elements

Robust rolls enable smooth sliding of the glass elements. Handling is easy and products are accessible to all customers.

Ergonomical and safe

- Ergonomically shaped handles are absolutely safe and protect fingers from pinching
- Stoppers ensure safe and gentle stopping of glass elements

finger trap protection





Quality combined with flexibility

High-quality processing

- **Mobile upper profile**
Mobile upper profile enables tilting of front glass covers. This smart solution stands for easy and quick cleaning.
- **Safe sliding is guaranteed**
Front aluminium guiding profiles ensure durable and safe sliding of glass covers.
- **Sealed side boards**
Individually designed end parts support constant cooling temperature of your products.

Hygienically clean

Mobile upper profile combined with flexible upper guiding of glass elements ensure customer-friendly removal of glass covers. Glasses can be easily cleaned.

Modular – suitable for each case

Modular design of PAN-DUR systems enables customised solutions for various cooling cabinets. Bending of our glass elements is individually calculated according to the construction of your semi-verticals.

Powerful design

ECO SEMI – improve your image

Modular design, top-quality materials, professional processing and intelligent detailed solutions match exactly your case. ECO SEMI integrates completely into the image of your store.

- **Customised construction**
to match various cooling cabinets
- **Flowing transitions**
without edges or dirt corners
- **Customised design options**
for handles and side wall parts





ECO SEMI S with PAN-DUR bi-directional shelf edge lighting

ECO SEMI S with PAN-DUR traditional undershelf lighting

Optimal lighting – according to your specification

T5 tubes or LED lighting

We offer retrofit T5 tube and LED lighting modules ensuring optimal presentation of products, either as canopy or shelf lighting.

T5 tubes

You can choose between various light colours according to the products displayed. Each T5 lamp is protected with a transparent polycarbonate protective tube against humidity, damage and dirt.

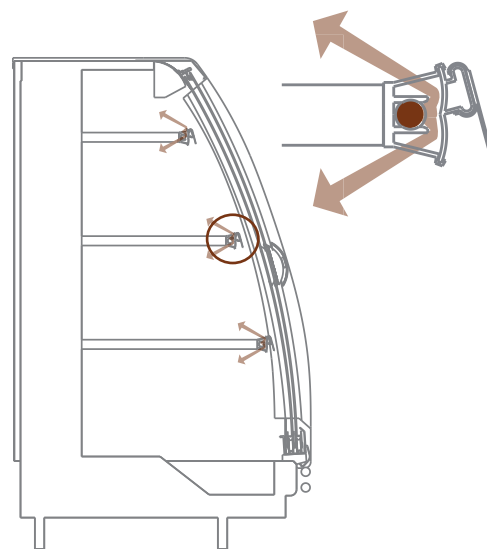
LED

Our energy saving LED modules are available in the following colours: naturalwhite (4200°K) or reddish Coolmeat.

Lens system combined with reflectors enables homogeneous illumination of the products.

Optimal position of lighting modules

PAN-DUR developed intelligent placement of lighting to enable best-in-class presentation of products.



Front displayed goods lighting with T5-LED tubes

LED module





ECO SEMI D



ECO SEMI S

One system – two glass versions

ECO SEMI glass covers are available in two versions using the same interface with the case.

ECO SEMI D

Double glass covers system stands for optimal isolation.

ECO SEMI S

Single glass covers, 6 mm thick, with one low-e coating on the inside.

No compromises

PAN-DUR uses only glass tempered according to DIN EN 12150-2:2004.

