



ECOLUX Plus

Side sliding glass covers for LT islands

- Frameless system for optimal presentation of products
- Temperature safety and constant food quality
- Energy saving potential up to 50%
- Top-quality, dimensionally stable materials
- System suitable for OEM assembly as well as for remodeling and retrofit of refrigerated cases of major manufacturers
- Intelligent lighting options with T5 or LED



Maximum energy efficiency – our contribution to climate protection

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.

Energy saving

PAN-DUR glass covers for LT islands ensure up to 50% decrease of the running costs of your refrigeration systems.

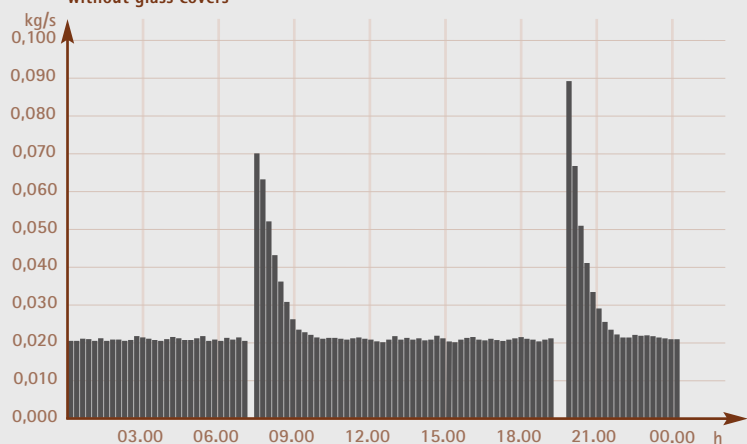
This energy saving enables significantly reduced emissions.

Investment will have short payback time.

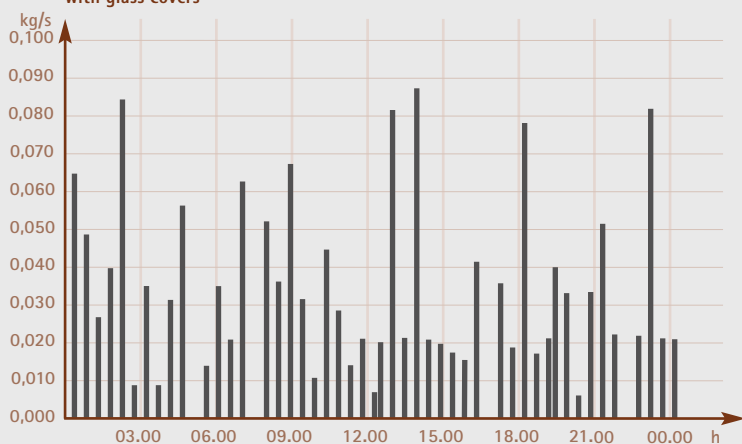
Proven quality

Numerous tests in cooperation with leading food retailers and independent institutes confirm performance and advantages of PAN-DUR glass covers.

Energy consumption – mass flux of cooling liquid without glass covers



with glass covers





Constant temperature guarantees food quality

PAN-DUR glass covers guarantee constant cooling temperature and enable temperature safety which assures unmatched food quality.

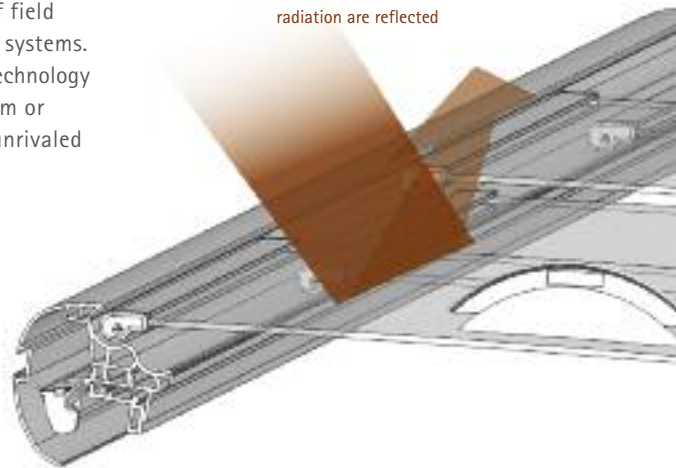
ECOLUX glass covers meet the highest requirements concerning quality, technology and functionality. PAN-DUR products are in compliance with German Food Hygiene Regulation (LMHV) and European HACCP Regulation.

- Constant cooling temperature
- Fewer defrosting cycles
- Glass covers hold back 80% of harmful infrared radiation

Well-conceived detailed solutions

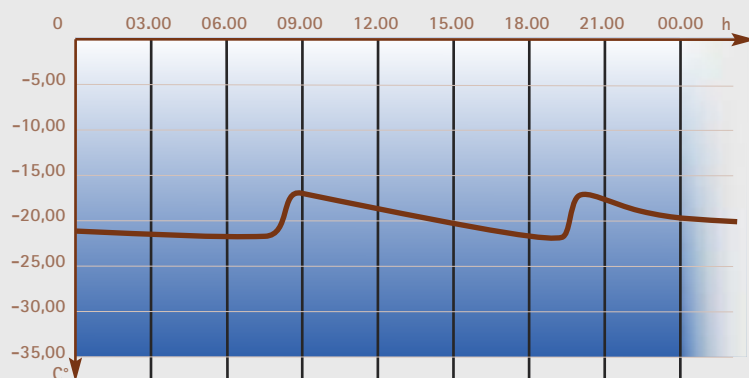
We look back at a long history of field proven solutions for glass covers systems. In particular intelligent lighting technology combined with high-quality, 4 mm or 6 mm thick, low-e glass enable unrivaled energy savings.

80% of harmful infrared radiation are reflected

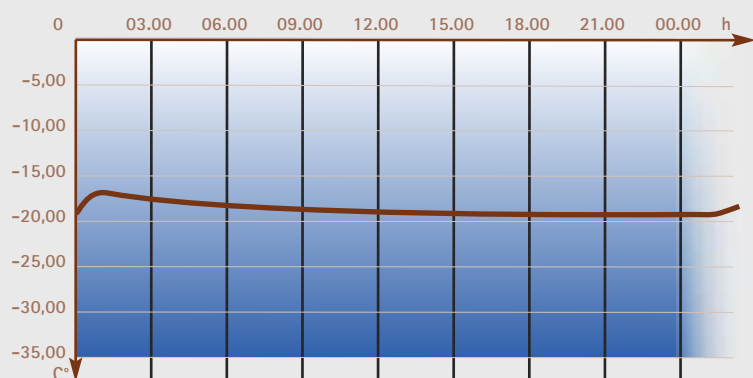


Food quality – average temperature in case

without glass covers



with glass covers





flat glass cover

Attractive product presentation – convincing added value

Nice and fresh – for the best customer acceptance

In close cooperation with food retailers, PAN-DUR increases not only energy efficiency but also upgrades design of LT islands and ensures inviting presentation of products and the best customer acceptance.

Our frameless and spacious glass covers combined with a modern general impression and ergonomical handles integrate completely into the image of your store.

- **Easy handling** – comfortable loading and purchasing of products
- **Barrier-free** – consumer's impulse to buy is not disturbed
- **First-class presentation of products**
- **Boost of customer acceptance**
- **Decrease of energy costs** up to 50%
- **Ensuring food quality** through constant cooling temperature of the products

ECOLUX Plus represents additional value of the refrigerated cases. Attractive general impression is characterised by high-quality materials, first-class processing and intelligent detailed solutions.

- **Precise fitting** of all elements and profiles
- **Flowing transitions** without edges or dirt corners
- **Customised design options** for handles and handrail

corner cap



guide rail





curved glass covers

Excellent design combined with functionality and quality

- **Frameless glass covers** enable the best possible presentation of the products. Whether flat or curved, ECOLUX Plus glass covers provide completely clear and free view into the cooling cabinets.
- **High-quality low-e glass elements** are tempered according to EN 12150-2:2004. Outstanding, homogeneous surface is free of waves, improves transparency and **reduces mirror effects**.
- **Easy and tilt-free mobility** of glass elements running on slide points
- **High dimensional stability of aluminium-plastic composite** does not require cross bars
- **Screwed handles** (not glued)
- **Powder coated aluminium profiles** are used for handrail covers
- **Easy assembly, maintenance and cleaning**
- **High-quality, dimensional stable ABS-plastic parts** (safe to use for storing food)
- **External handrail lighting** with T5 tubes
- **LED lighting** placed on the inside or outside of the handrail
- **Optional lighting in the middle rail**
- **Modular design**

slide element



screwed handles



finger trap protection



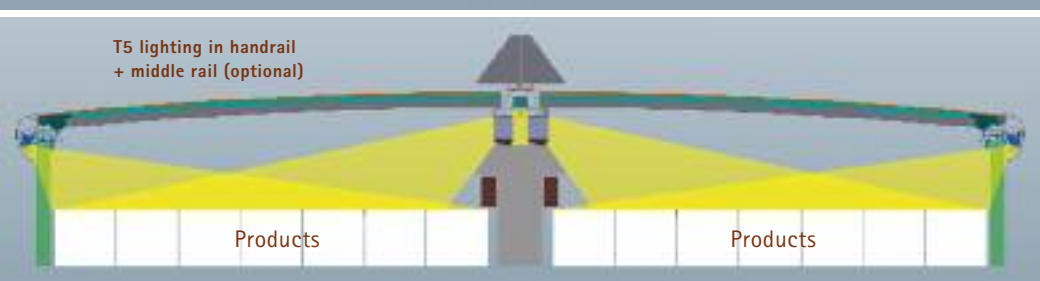
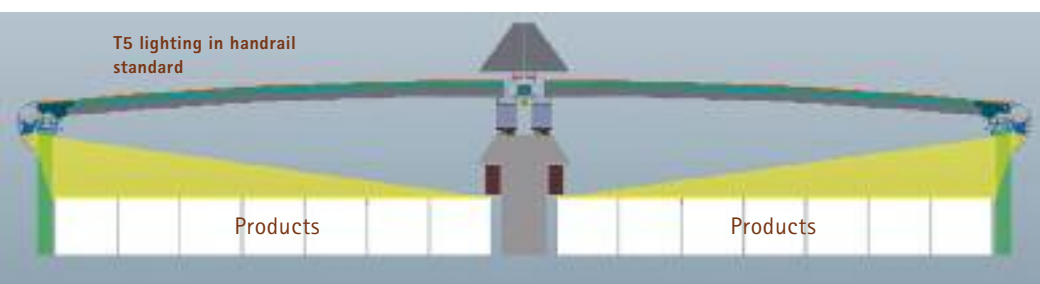
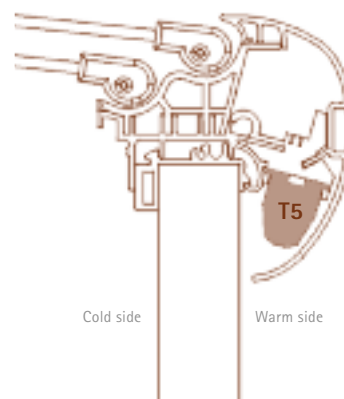


T5 – Obviously better

Minimised heat input, reduced energy consumption, longer operating time

- PAN-DUR sets standards**
 Our innovative solution for external handrail lighting has become a standard on the market and has been generally accepted by retailers.
- Easy to service lighting technology**
 Handrail profiles are easily accessible from outside and enable timesaving replacement of lamps.
- Improved light yield and considerably longer durability**
 Fluorescent tubes operate better in a warm environment, outside of the cooling cases and LED in cold area inside of the case. This is the way PAN-DUR conceives lighting options.
- Minimised heat emission and unobstructed light incidence**
 through insulating glass on the side ensures reflection of most of the harmful thermal infrared radiation.

Handrail with integrated lighting module in external position



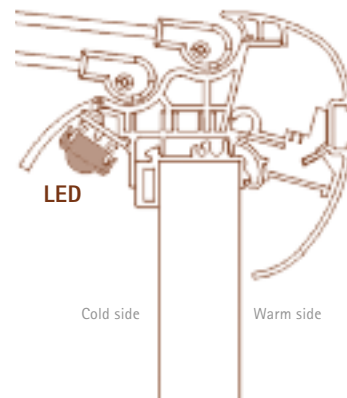


LED – longer illumination with less energy

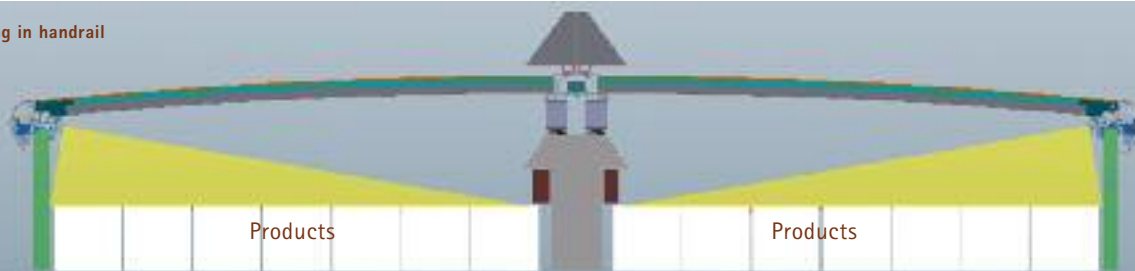
We develop customised solutions

- **Lights on the inside of the handrail**
Carefully thought out construction of PAN-DUR handrails offers installation of lights on the inside as well as on the outside.
- **LED lights enable lower energy consumption**
- **Retrofit** of existing PAN-DUR systems is possible
- **Intelligent thermal management**
Thermally conductive handrail construction transfers LED process heat from the inside to the outside of the cooling cabinet.
- **Increased life cycle**, maintenance intervals are noticeably longer

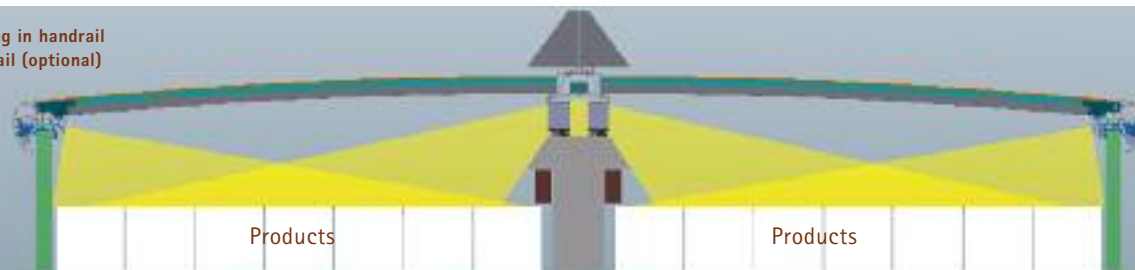
Handrail with integrated lighting module in internal position

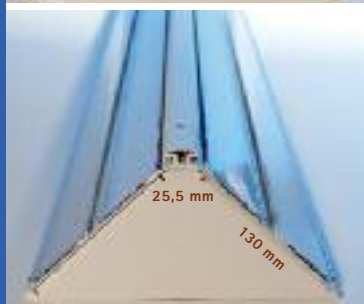
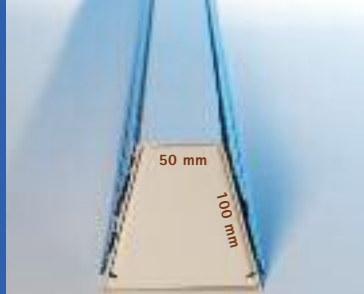


LED lighting in handrail standard



LED lighting in handrail + middle rail (optional)





Price displays
made of powder coated steel

Price tickets upon request

Bag holder



Handles

- Available in various colours
- Imprinting and logos upon request



Design profile in handrail
available in various colours



Silicon lubricant

The care product to
preserve easy sliding of the
PAN-DUR Glass System

Individual – according to your request

Improve your image with ECOLUX Plus

PAN-DUR offers customised and high-quality design options, which integrate completely into the image of your store. Modern design enables attractive presentation of the products.

