



ECO DOOR D

Hinged insulated glass doors for refrigerated wall multidecks

- Frameless door construction for optimum product presentation and visibility
- Even chilling ensures temperature safety for products
- Energy saving up to 70%
- Easy handling and access for customers and staff
- 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



ECO DOOR D with inner cover plate

Clear shape and design – this is our philosophy

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 set standards!

Frameless all-glass door systems, an innovation of PAN-DUR, are well established in the market and have received excellent customer feedback over the years.

First-class product presentation

The PAN-DUR well known frameless All-Glass Door gives the absolute maximum window area for maximum product display.

We offer customised modular solutions for OEM, retrofit or remodeling with maximum flexibility and complete freedom in planning for your individual projects.

Constant temperature for product safety and the best food quality

Installation of PAN-DUR glass door systems enable constant cooling temperatures and support temperature safety requirements to ensure the highest product quality.

PAN-DUR glass door systems are in conformity with national and international standards such as German Food Hygiene Regulation (LMHV) and international HACCP Regulation.





ECO DOOR D with external cover plate

Energy saving – our contribution to climate protection

- No frame construction, neither on glass doors, nor on the interface to the case
- No additional heating wires required
- No thermal bridges
- ➔ **Reduced energy consumption**

ECO DOOR D systems of PAN-DUR do not require additional heating elements neither in the glass doors nor in any structural parts.

Active environmental awareness – image improvement

The ecological awareness is increasing steadily and is now key topic. All solutions supporting the environment are well accepted and honored by loyalty and good customer relations.

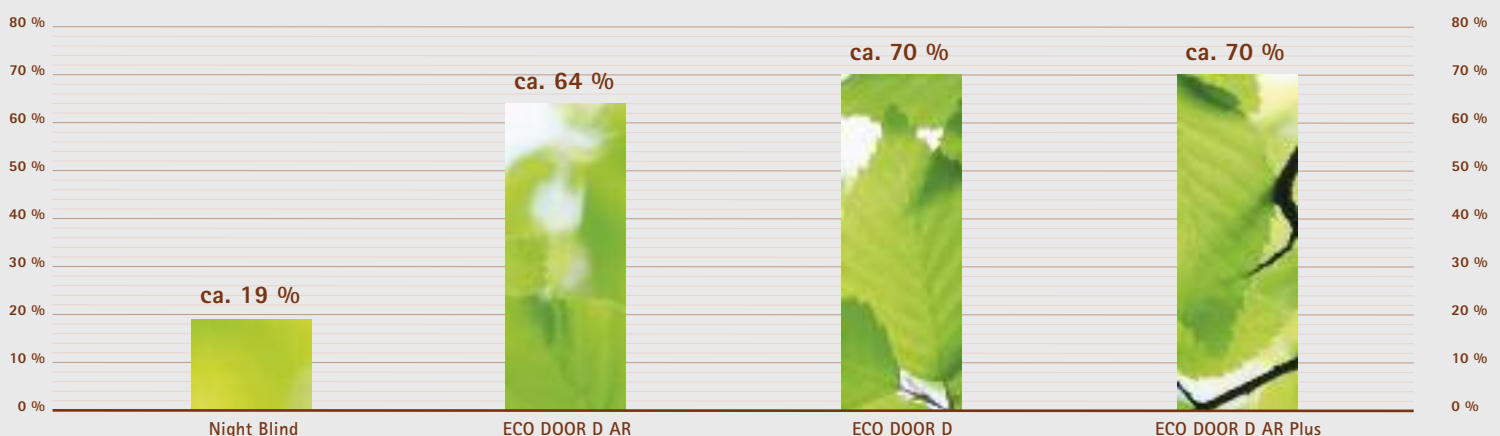
Use of PAN-DUR ECO DOOR D systems reduces energy consumption and so make significant reductions in the emissions of greenhouse gases which are the cause of global warming.

A cost efficient investment – in all respects

We protect the environment and simultaneously energy consumption can be reduced up to 70% with PAN-DUR ECO DOOR D glass door systems.

Your investment will pay off in a short time

Energy saving potential when installing PAN-DUR ECO DOOR D systems – benchmark: open multideck, supermarket conditions





screwed handles

Complete solutions – easy and distinct

Flexible and safe

- **Durability**
The combination of safety glass and plastic components results in outstanding form stability and premium flexibility. Both panes of the double glazing are tempered according to DIN EN 12150-2:2004.
- **Handles are screwed not glued.** This screwed fixing is designed to stand up to robust handling guaranteeing long life operation.
- **Lever protection, a special mechanism developed by PAN-DUR,** secures the doors against unintended removal.
- **High quality processing in conjunction with an attractive, solid design** ensures long-term use of our glass door systems in a demanding supermarket environment.
- **Door hold open function – no mechanical locking necessary!** PAN-DUR developed a “hands-free” access in order to ensure an effective and ergonomic loading. Both your staff and customers can benefit from this practical function.

lever protection





accurate adjustment

Light and adjustable alignment

- **Robust and springless self-closing mechanism ensures a soft and easy self-closing of the doors.**
With this maintenance-free mechanism, PAN-DUR sets standards on the market.
- **The continuous magnet gasket** keeps the door within the defined position
All along the width and provides a neat closing.

Modular and individual

Modular concept of ECO DOOR D glass door system enables at the same time minimum of components and maximum flexibility for project planning.

Our frameless all-glass door system is customised and adapted to each case model. Our solutions match exactly your case and the doors integrate completely into the image of your store.

No sales barrier

Customers perceive our energy saving systems as a protection, which guarantees product quality and in no way as an obstacle.

door hold open function integrated in lower door hinge

individually adjustable magnets





Smart and modular – flexibility in detail

OEM, remodeling or retrofit

PAN-DUR frameless all-glass door systems can be easily assembled to almost any cabinet.

Furthermore, interfacing parts are engineered individually to ensure a full and harmonic integration into the case.

The first-class design and high quality processing guarantee durability of ECO DOOR D systems.

All PAN-DUR systems can be retrofitted with various lighting options.

Frameless in two aspects

Not only glass doors are frameless, but also interfacing of the doors to the cases is frameless.

PAN-DUR frameless all-glass doors and vertical mullions with lighting are attached to lower and upper interface elements.

Compact and well-conceived

- All hinges are integrated into the double glazing. The high quality materials contribute to the modern general impression.
- **Price display**
Lower system interface is designed to carry a price display rail.





Optimal illumination invites customer to buy

T5 lighting, vertical and horizontal

Depending on products displayed within the case different light colours can be chosen.

Protection tube

A transparent and easy to clean polycarbonate tube protects the T5 light against damage, humidity and dust.

Our plug-in lighting module can be easily integrated into the glass door system.

LED lighting, vertical and horizontal

For dairy products we offer light colour Neutralwhite (4200 °K) and for meat products reddish light colour Coolmeat.

We apply a special lens optic rail in front of LED lights and enable in this way homogeneous illumination and optimal presentation of the products.

LED lighting modules are available in any length and are perfectly integrated into the vertical mullions. This ensures maximum distance to the shelves and thus optimal illumination.

LED lighting systems are also plug-in like T5 lighting and can be easily integrated into the glass door system.

Thermo management – how to do!

LED process heat is conducted from the cold to the warm side of the case.

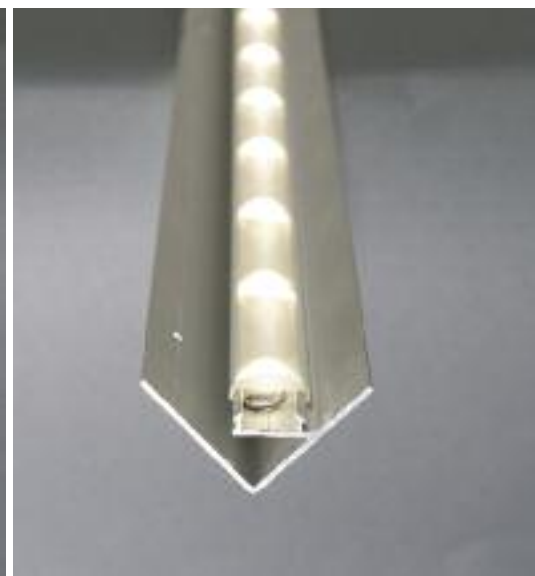
T5 vertical



LED vertical



LED horizontal





ECO DOOR D AR

ECO DOOR D AR Plus

ECO DOOR D

Different versions – to match your requirements

PAN-DUR ECO DOOR D glass door systems are available in three different versions:		value (radiation from outside)				
		heat transfer coefficient (W/m ² K)	light transmission (%)	light reflection (%)		
ECO DOOR D double glass door with one low-e coating	cold side 4 mm tempered float glass 1 low-e coating		warm side 4 mm tempered float glass	1,5	80	14
ECO DOOR D AR double glass door with four anti-reflective coatings	cold side 4 mm tempered float glass 2 anti-reflective coatings		warm side 4 mm tempered float glass 2 anti-reflective coatings	2,8	95	1
ECO DOOR D AR Plus double glass door with one low-e coating and three anti-reflective coatings	cold side 4 mm tempered float glass 1 low-e coating 2 anti-reflective coatings		warm side 4 mm tempered float glass 2 anti-reflective coatings	1,5	90	2

