



The
world of cold-storage room
manufacturing



GABLER - MIRELTA Hungária Kft.

Advice and planning

Depending on your demands our colleagues offer the optimal solution by involving architects and engineers. Experiences of several decades and high professional qualification warrant the most favourable solution according to the demands. We give advice and elaborate the best solutions, and offer the complete realization from one hand.

Planning and manufacturing

According to your demands our engineers and technicians elaborate the establishment, which can be executed in the most rational way and with the highest saving in costs. The subassemblies of the cooling chambers are made in our plants, using modern techniques and according to your optional demands. Holding it we can satisfy the demands of our customers with high flexibility.



Delivery and installation

We offer the professional installation in time as a business card. The qualification of our experts can warrant perfect execution. Our building engineers control the work on site until bringing the establishment into use.

References

A + A Hűtőtechnika Kft.
AGRIKON-ALFA Kft.
AUCHAN Store, Budapest
Becker és Kalorexpressz Kft.
BURESCH Kft.
CARRIER CR Magyarország Kft.
CONINVEST Kft.
COOLTECH Kft.
COOP SERVIS Group, Szlovákia
DENSO GYÁRTÓ MAGYARORSZÁG KFT. air-conditioned measuring chamber
E.A.T. GmbH. Hog slaughterhouses: Belarus, Spain,
Goat slaughterhouse: China
EK-KO KLÍMA KFT.
EDLA Kft. pasta dryers
EURATO SA. - Romania
FO-VILL & HAUSER KFT.
FORNETTI KFT.
FRIGO-KOMPLEX Kft.
GENA KFT. air-treating chamber with fan of 500 m³
GRUNDFOS Magyarország Gyártó Kft. air-conditioned measuring chamber
GÜNTNER-TATA Kft.
HERING TRADE cold-storage plant - Ászár
ICE-STAR Kft.
INNO-KOMPLEX Kft. shocking freezers
INTER-THERMO Kft.
KAISER FOOD Kft.
KOGÉP Kft. dough-raising chambers
Lambda Frigobau Kft.
METRO HOLDING Hungary
MAGYAR POSTA
M-U-T KFT. waste separation chambers
PL MASCHINE Kft. incubating chambers
PLUS Store chain cold-storage rooms with shelves
REVOLUTION-2000 Kft. wood drying chambers
SPAR Store chain
STEIN-TÉSZTA Kft.
SW-COOL Kft.
TATECH Kft. mortuaries
TESZO Kft.

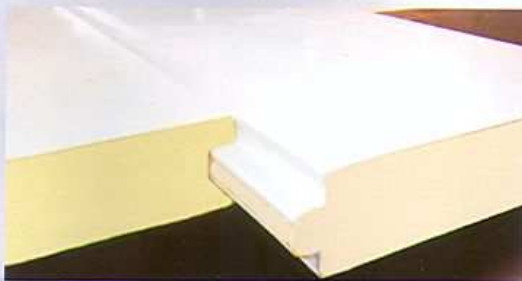
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Cooling panels



- Industrial panels in the width of 1,170 mm and up to the length of 6,000 mm
- Thickness of panels: 60, 70, 80, 100, 110, 120, 140 mm
- Panel cover options: dip-galvanized, dip-galvanized with polyester coating and stainless steel
- Insulation: hard FCKW-free polyurethane
- Panel joints: flashed



Our main profile is to manufacture extremely good heat insulating, long-wearing, easy-to-use, well cleanable laminating panels up to the thickness of 30-200 mm that can be made and sold in optional sizes.

Our products are made of them.



- In case of panels of cold-storage rooms, the width of panels can be chosen between 135 and 1,170 mm
- Door-frames are the parts of panel wall
- The corners of chambers are made of angles manufactured from panels.
- Dimensions of doors are according to demands
- Standard colour: RAL 9010 but RAL 9002 or RAL 9006 may also be chosen

Field of application of our panels:

grocery shops and department stores
hotels
hospitals
human technology
clean areas
(laboratories, instrument rooms)

butcher's shops
bakeries
confectionaries
cold-storage plants
food processing plants
restaurants

Cold-storage chambers

Our company's main profile is cold-storage chamber manufacturing. We can manufacture chambers of different shapes, sizes and with different wall thicknesses depending on the demands of our customers. You can order the designs of groups, building to one another and assembling in rows. We can manufacture cold-storage rooms of panel thicknesses from NZ 60 to NZ 200, from the ranges of positive temperature to shockers via freezing chambers, from $+12^{\circ}\text{C}$ to 40°C . Seven types of flooring can be chosen for our cold-storage chambers. Normal cold-storage chambers can be ordered without floor or with built floor as well, of course.

Chamber elements

The system of laminated panel is hard PUR foam foamed under pressure on the whole surface with closed finishing coats connecting to the insulating material as shear-resistant. The joints of elements of wall, roof and floor are heat-bridge free due to the 20 mm flashed, feathered panel connection, strong joint is warranted by the continuously formed modified sealing feather on the connecting surfaces.

The crossovers between wall and roof, and wall and floor are also heat-bridge free due to the rabbet solution around.



Shelves:

Our self-made shelves are delivered completely made of dip-galvanized plates with polyester coverings (with supporting structures and shelves). The standard shelf-system is four-levelled, 400 mm deep, 1 m long and can be loaded up to the pressure of 50 kg.

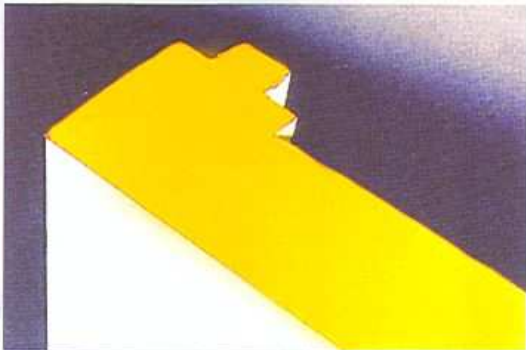
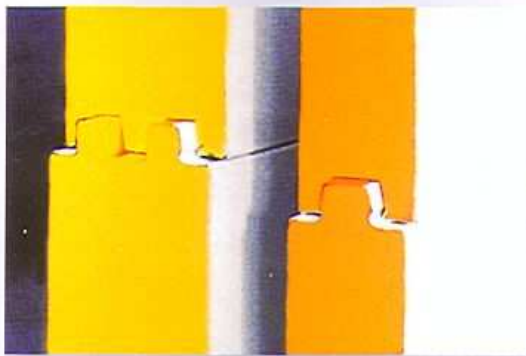
Naturally custom-made shelves can also be manufactured.

Cooling panels

Finishing coats

The internal surface of wall and roof panels are dip-galvanized covered by polyester in RAL 9010 white colour, the outer surface of the roof and floor panels are dip-galvanized steel plates.

All polyester surfaces are supplied with strippable film protecting against damages.



The uni-blocks manufactured by Güntner company are offered for our cold-storage chambers. Types operating with systems into side walls, onto side walls, roofs and split systems are available for our customers. According to their performance, there are types for normal temperature until 3 kW and for deep freezers until 1.5 kW.

Perfect chamber system

- Optional dimensioning: there are no strict limitations relating to the area or height.
- from +12 °C to 40 °C
- 7 selectable thicknesses of insulating layers
- 7 different floor forms
- doors in optional sizes
- easy to clean

Doors of cold-storage chambers

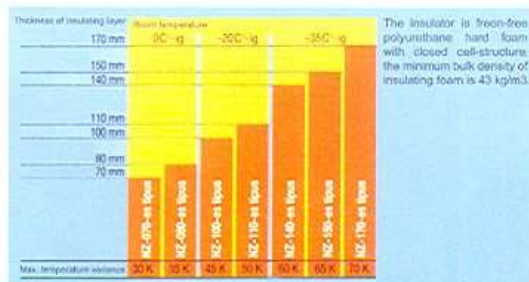
According to width:

- with single-wing opening door until the opening size of 500-1300 mm
- with double-wing opening door until the opening size of 1200 to 2400 mm
- sliding doors until the opening size of 900 to 2600 mm

According to height:

- from 500 mm to 2,600 mm

Our single-wing opening doors are assembled with the standard lock type JUMBO 6000 of RAHRBACH company in the colour of RAL 7001 or chromed version. But the armed lock type 7101 can also be chosen. The smaller opening doors are assembled with chromed lock type RAHRBACH ENGO 6188 and hinge type 4500. Our sliding doors are assembled with track system and locks type Fermat and Fermatic.



Floors

Floor Form 1 (standard design)

9-layer, glued, laminated plate (AW-100) with wear-resisting plastic coating and anti-slip pattern. Passable by rubber tyre until 150 kg/wheel load. Distributed load capacity: 3,000 kg/m².

9-layer, glued, laminated plate with wear-resisting plastic covering, anti-slip pattern, foamed bracing members, 300 kg/wheel load capacity. Distributed load capacity: 5,000 kg/m²

Floor Form 2

Floor Form 3

Aluminium ribbed slab 2/3.5 mm glued and riveted on insulating panel. Only suitable for manual storing. Load capacity: 1,000 kg/m².

Aluminium ribbed slab glued on the 9-layer AW 100 glued laminated plate with 100 kg/wheel load capacity. Distributed load capacity: 3,000 kg/m².

Floor Form 4

Floor Form 5

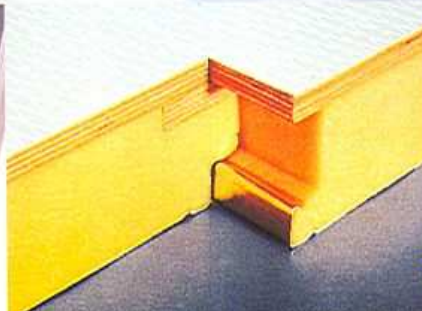
Non-corrosive anti-slip slab glued on the 9-layer AW 100 glued laminated plate with 100 kg/wheel load capacity. Distributed load capacity: 3,000 kg/m².

Floor Form 6

Galvanized floor, load capacity: step resistant

Floor Form 7

Galvanized/laminated wood/synthetic resin. Glued on the 9-layer AW 100 glued laminated plate, with 100 kg/wheel load capacity. 2.5-3 mm synthetic resin coating. Distributed load capacity: 3,000 kg/m².



Other chambers

Incubating chambers

We have several types of incubating chambers available for our customers. Naturally, we also make custom-sized incubating chambers for our clients. The chambers are always made with 50-mm floor and NZ 60 wall thickness. It can be ordered with RAL 9010 standard colour or corrosion resistant and galvanized armatures.

The automatics necessary for incubation need the side and roof panels to be dowelled.

The place of automatics can be doweled according to demands. Incubating chambers are produced with flat door and inspection window with 50 mm rubber around. The inspection window is made of 20 mm heat-insulated glass in different sizes.

The assembled incubating chamber can also be taken over in our site on demands or the customer can assemble it themselves with the received complete profiles and assembling accessories. In this case, we attach drawings and assembling instructions.



Dough-raising chambers

The dough-raising chamber is made without floor and with NZ 60 panel thickness and corrosion resistant armatures. It is made with double-wing opening door and 20 mm heat-insulated glass (inspection window).

Of course, we can satisfy every unique demand in case of dough-raising chambers, too.

Other chambers

Shocking cold-storage chambers

The panel structure makes it possible to build together the optional formed and sized chambers with different panel thickness. The shocking chamber is made with NZ 140 panel thickness. For smaller chambers, floor panels can also be ordered. For larger shockers, built floor is suggested, which means that 300 mm spot face should be built. Floor heating of 2×10 W capacity per m^2 should be placed into the 5 cm heated concrete. Above it there is NZ 70 natural foam in two layers. The upper layer is 160 mm concrete, fitted with iron, with surface course. NZ 140 panel means 140 mm thick panel wall, the armature thereof can be ordered in RAL 9010 standard colour or in corrosion resistant version. Up to an external height of 3 m, the shocking chamber can be manufactured with angles, higher chambers are produced with built angle. The shocking chamber is marketed only with single-wing cooling door containing case heating, lighting and pressure equalizer. Due to the single wing, the size of opening can only be 1,300 mm wide for perfect closing. Complete profiles and assembling material are given with all chambers for the customer to be able to assemble it.

We can assemble and deliver the chambers on demands, of course.

Clean areas

air-conditioned rooms made of laminated panels of suitable sizes, according to the demands of users
with large windows made of heat-insulated safety glass
with large automatic sliding doors, opening according to demands
with lighting upon demand
with openable wall for delivery of machines
it can be build around existing valuable equipment (industrial robots, measuring machines)
upon demand



Accessories of cold-storage chambers

Refrigerator doors and equipment

Significant supplementary part units of cooling rooms are insulated door systems and shelves and pike-perches for meat tried and tested in practice.

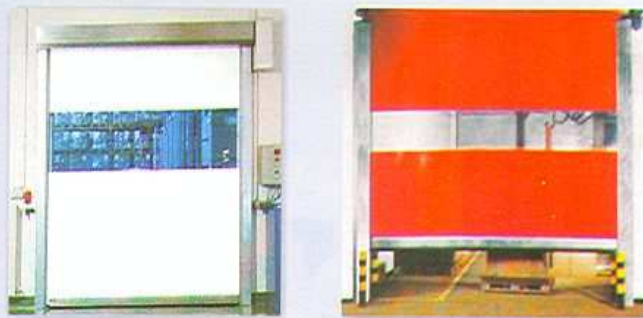


Opening and sliding doors

Made of stainless steel or plastic-covered plates in single- or double-wing design in the required size: sliding doors also come with mechanical operation

Fast doors

In galvanized or corrosion resistant design substituting swing doors or laced curtains



Swing doors

Swing doors and laced curtains mainly of plastic and cold resistant PVC.



Shelf systems

We offer a wide range of frameworks, shelves and pike-perches among others for inside installation of cooling areas, moreover impact protection profiles in different designs.

Installed cooled areas

Traditional and combined solutions



Traditional building of cold-storage houses

Installed cooled areas mean the subsequent heat insulation and damp-proof execution of buildings realized by traditional building technologies. It is possible to utilize the complete volume of the room by using small insulating elements with posterior insulation of inclined walls, columns, corners or other dissected surfaces. Temperature range is between +12 °C and 50 °C with suitable selected insulators.

The application of closing layers excludes moisture of the soil, and posterior insulation of walls can be carried out by building insulating layers. The protection against ground frost is made with the help of temperature detectors and controllers according to DIN 57253 and the prescriptions of VD1 in case of non-aerated deep freezing floors. Heated threshold in a design passable by fork-lifts, in case of deep freezing rooms.



Installed cooled areas

- Optimal utilization of area
- Damp proof and water insulation
- Concrete surface passable by fork-lifts
- Doors in optional sizes

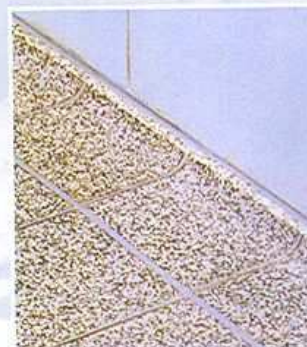
In case of every deep-freezing room larger than 20 m² the insulators can be made of hard polyurethane foam of density of 43 kg/m³ according to DIN 4102.

Wall and roof elements made of the tried and tested system of GABLER LAMINATED PANELS.

Covering of surfaces can also be realized with anti-freeze tiles after forming suitable selected bedding and frameworks. The edges of positive corners are protected with corrosion resistant profiles.

It is possible to form the floor surfaces according to slip-safety classification of R9 P13 as a function of necessary sealing requirements. (According to the floor specification no. ZH 11571).

The floor joints to walls are semicircular and the same as floor covers. On demand, flexible jointing and impact protection, pressure equalizing valve, air curtain swing door can be chosen as well.



Deliverable cooling containers

Renting containers



Rentable mobile cooling capacity

This is the real problem solution in every case when temporary cooling area is required.

GABLER cooling and deep-freezing container

It is available in two standard sizes assembled with suitable cooling machines. The data of the Cooling containers are included in the table. Other sizes and designs are also available upon special demand.

Callable at any time...

GABLER cooling and deep-freezing containers are installed on the required day at the given place of your site, and removed on the day according to agreement. For installation, a flat area and 400 V connection are necessary.

The most economic solution!

With hired mobile cooling capacity, investment can be saved. "Cooling storage on site" renders expensive delivery to the nearest cold-storage plant unnecessary. Period of rental can be disposed exactly.

You can be informed on the costs from our discount price list.

50 years' experience

in air-conditioning and container techniques, which is another reason for the application of GABLER cooling and deep-freezing containers.

Mobile cooling and deep-freezing capacity. Rentable or purchasable:

For professional storage of cooled or deep-frozen goods in case of any event or periodical peak-demand or in case of failure of existing equipment.

Cooling/deep-freezing container	TC 10 (10 feet)	TC 20 (20 feet)
External dimensions	2,996 x 2,438 x 2,591 mm	6,058 x 2,538 x 2,591 mm
Internal dimensions	2,176 x 2,228 x 2,280 mm	5,248 x 2,228 x 2,280 mm
Floor surface	4.87 m ²	11.70 m ²
Volume	12.95 m ³	28.50 m ³
Ambient temperature	-20/+32 °C	-20/+32 °C
Room temperature		
Normal range	0/+8 °C	0/+8 °C
Deep-freezing range	-23 °C	-23 °C
Cooling capacity		
Normal range	3,200 W/h	4,270 W/h
Deep-freezing range	1,680 W/h	2,530 W/h
Post-cooling capacity		
Normal range	20 K	20 K
Deep-freezing range	8 K	8 K
Daily storage quantity	1,000 kg	1,800 kg
Power consumption	2.5 kW	3.0 kW
Maximum current consumption	6.7 A	9.8 A
Voltage	380/3 V/Ph	380/3 V/Ph

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