

## CHILLERS AND FREEZERS **KLASIK**

Klasik chillers and freezers are designed for storing food and ingredients that require controlled temperatures. This modern solution guarantees that the necessary temperature differences and hygiene standards are maintained.

The chillers can maintain a temperature anywhere above  $-2^{\circ}\text{C}$  while the freezer has a range of  $-18^{\circ}\text{C}$  to  $-30^{\circ}\text{C}$ . These figures are valid with an outside temperature of up to  $+32^{\circ}\text{C}$  (unless agreed to otherwise).

The insulated unit manufactured by our company is built from sandwich panels which is a system of corner columns and fitted insulated doors. Additional options are available per the user's requirements and needs.

In the basic version, the panels are covered on both sides with 0.6 mm steel metal sheets; these sheets are galvanized by hot-dipping, and are lacquered white. The metal sheets can also be 0,8 mm white-lacquered 0.8 mm thick aluminum metal sheets, 0.6 mm stainless steel or a combination of these. The core is made of polyurethane foam (PUR). This adheres perfectly to the metal sheets and creates a very light self-supporting panel with excellent insulation properties.

The tongue and groove system and special locking connection system provides precise and quick assembly and ensures the permanent strength of the construction. These systems, in conjunction with the flexible sealants, guarantee vapor tightness and therefore an insulation with a practically unlimited lifespan. The construction ensures that there are no thermal bridges that would conduct heat to the outside. The insulation is 125 mm ( $k=0.17 \text{ W/m}^2\text{K}$ ) thick in the case of the freezer units and 75 mm ( $k=0.27 \text{ W/m}^2\text{K}$ ) in the case of the chiller units.

The corner columns for the 125 mm thick panels are made with metal sheet that cover the outside of the column; it is filled with solid PUR foam and connected to the panels by the tongue and groove system. The metal sheet that covers the column corresponds to the metal sheet that covers the PUR panel. The columns for the 75 mm thick panels are made of PVC profiles.



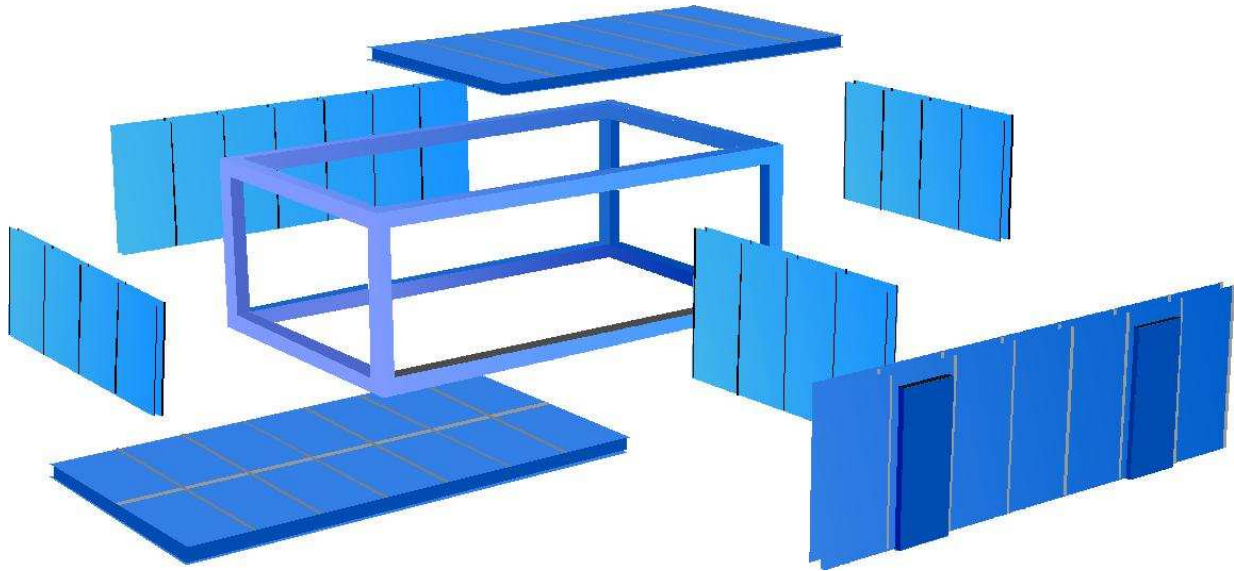
Our units with this locking system are offered with an inside ground layout corresponding to a **50 mm module** variant. The outside ground layout is greater by 150 mm than internal dimensions for units with 75 mm insulation or by 250 mm for units with 125 mm insulation. The height of the insulated units varies (the standard inside height is 2200 mm). The units can be assembled into various functional combinations and partitions can be built depending on the space available and user's needs and requirements.

The floor of the unit is made of PUR panels with anti-slip finish or is insulated by the building construction. The PUR floor is optional, typically depending on the load and surface finish:

- var. X (sheet metal 2 mm AlMg3 + plywood) load capacity 3,000 kg/m<sup>2</sup>, 200 kg/wheel 80mm
- var. XX (sheet metal 3 mm AlMg3 + plywood) capacity 4,000 kg/m<sup>2</sup>, 300 kg/wheel 80mm
- var. XN (sheet metal 3 mm SS + plywood) capacity 4,000 kg/m<sup>2</sup>, 300 kg/wheel 80mm
- var. P (plastic-covered plywood) bearing capacity 3,000 kg/m<sup>2</sup>, manual manipulation with goods

The ceiling is made of 75 mm or 125 mm thick PUR panels that are self-bearing up to a length of 6,000 mm. The ceiling cannot be walked upon and cannot support any other weight. Larger boxes must have ceiling panels that are suspended from the ceiling of the building.

Doors of the unit can be sliding (moved manually or automatically) or revolving and can be opened either to the left or right. The doorframe in the freezer unit is heated to prevent the door wing from freezing to the doorframe. Doors fitted with a lock have an internal safety device that enables the door to be opened from within the unit should a person be accidentally trapped inside. To prevent cool air from escaping through the opened door, the unit is fitted with a plastic or air curtain.



The KLASIK units can be fitted with additional accessories:

The parameters of the refrigerating machine depend on the size of the cooling space, the required temperature range, and the type and amount of goods to be stored. To ensure the reliable and economical operation of the refrigerating machine, the condensation heat must be released from the room.

We offer the following versions of refrigerating machines:

- A - Zanotti series SB ceiling block refrigerating machine, fixed on the ceiling of the unit, completely outside the unit, the machine can be easily replace.
- B - Zanotti series GM wall-mounted block refrigerating machine with the evaporator unit inserted inside the unit through a wall PUR panel. The machine is easy to replace.
- C - Split refrigerating machine where the condensation cooling unit can be located up to 15 m from the unit (unless agreed to otherwise).

Pressure valves compensate the pressure differences between the outside and inside of the box due to temperature fluctuation. For freezer units it is heated electrically.

Lighting (fluorescent lamp), including electrical mains, are used in the refrigerator or freezer units.

Plastic curtains prevent heat loss when the unit door is open. The curtain consists of transparent softened overlapping plastic strips. The strips are attached to a plastic ridge on the upper part of the doorframe.

Air curtains are a barrier-free method of preventing heat loss when the unit door is open. The air that flows from the top separates the inside from the outside.

Access ramps compensate for the difference in the levels of the floor inside the unit and the floor of the building.

Round plastic corner laths prevent dirt from accumulating in the corners of the box and allow for easier cleaning.

Open door signalizations prevent heat loss in the case where the door is not fully closed.

Visual signalizations indicate that lights are on/off inside the unit.

Acoustic and visual signalizations indicate a trapped person.

Wall protections prevent damage to the wall when storing goods. We offer protective plastic laths or plastic abrasion resistant boards.

Platons are 20 mm membranes that allow ventilation under the unit.

Construction shelves (corrosion resistant steel) stand on the unit floor. The basic layout consists of two foundations and an optional number of shelves 440 mm deep and 500, 880 or 1000 mm wide. The system allows assembly of the shelves in L-shape or U-shape structures and allows the addition of hook carriers for suspending goods.

Suspension system for meat (corrosion resistant steel) consists of struts, carriers (flat bar), consoles and hooks. The struts are attached to the ceiling and floor of the unit.

Console shelves (corrosion resistant steel) are attached to the wall of the unit and consist of side struts and height-adjustable shelves with thickness of 435 mm and width 460, 960 and 1460 mm. We can also supply suspended rods with hooks for storing hanging goods.

**More information about KLASIK units can be sent upon request. The sales and technical department in Prague is ready to prepare and send technical details and quotes.**

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