

MODULAR COLD ROOMS



CE

 **SOKO**[®]
INŽINJERING

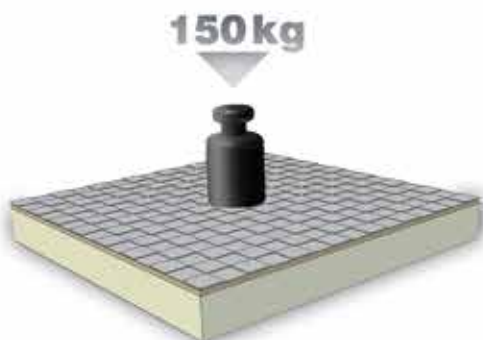
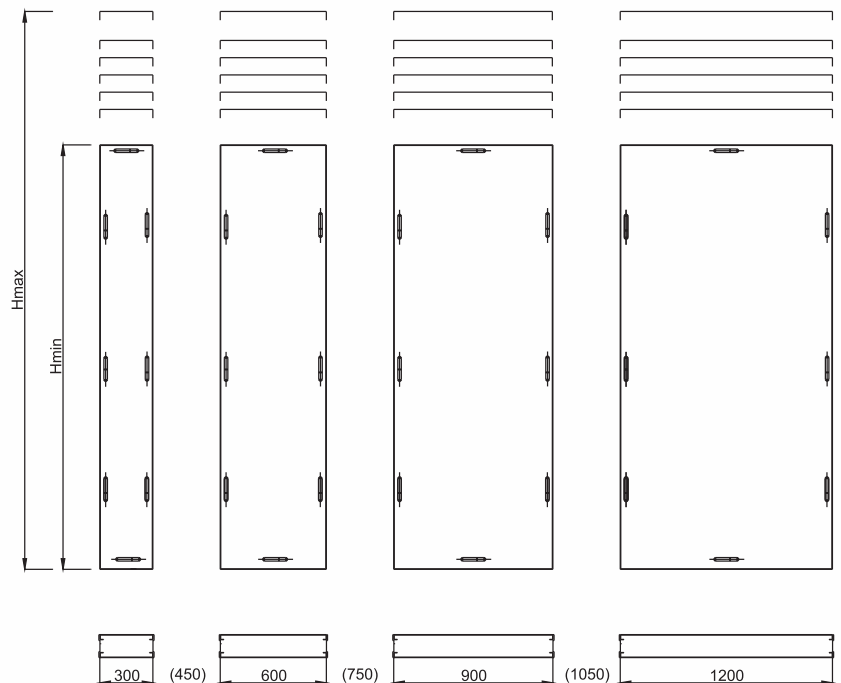
Modular cold rooms: They are designed for storing food products (milk and milk products, fruits and vegetables, meat, as frozen food storage and for quick freezing). We offer modular cold rooms in range of 15 different heights from 1800mm to 3900mm. Panels are made in two different thicknesses, with a cold room volume range of 2m³ up to 150m³. Such a large number of range sizes offers the possibility of maximal utilization of your space. Cold rooms are designed for filling the stocks with goods manually and indoor installation at an ideally leveled floor. Standardly, one door is mounted per cold room, but on customer request there is possibility for multiple doors per cold room.



Self-supporting sandwich type panels are consisted of rigid polyurethane foam inside 2 coated galvanized metal sheets thickness of 0.6mm. Galvanized metal sheets are pre-painted in RAL 9002 non-toxic paint, plus protective folio film. The panels are available in different sizes for modular system from 300 mm to 1200 mm width with a module of 150 (7 sizes) and length from 1800 mm to 3900 with a module of 150 (15 sizes).

The insulation material is a two component mixture (polyurethane) with a thermal conductivity coefficient of $\lambda=0.023 \text{ W/m}^2\text{K}$ and a density of 44 kg/m³. Depending on the temperature regime, they are made in two thicknesses, for which the technical characteristics are given in the table.

S (mm)	t (°C)	k (W/m ² K)	m (kg/m ²)
80	do 0	0.27	12.5
120	do -18	0.18	13.7



Cold room floors are sandwich type panels consisting of profiled galvanized metal sheet 1,25mm thick on the inner side which is coated with a PVC film 150 microns thick, and the polyurethane filling with the galvanized metal sheet of 0,6mm thickness on the outer side. On the inside of the inner metal sheet we add the 12mm chipboard and only after that we fill it with polyurethane. In this way we get load-bearing capacity of the floor of 150kg/m².



Cold room housing frame is separable construction consisting of PVC profiles and corner elements. It is specially designed for easy cleaning, and it satisfies the HACCP requirements. We use PVC profiles and corners in two sizes depending on the size and purpose of the cold rooms. The modular cold room is delivered in parts and assembled at location.



The connections panel to panel, and panel to the pillar profile are easily accomplished with dual effect camlocks, and are very thermally efficient and hygienically impeccable. Camlocks are cast into the polyurethane sandwich panel and the perforated strip is placed in profile.



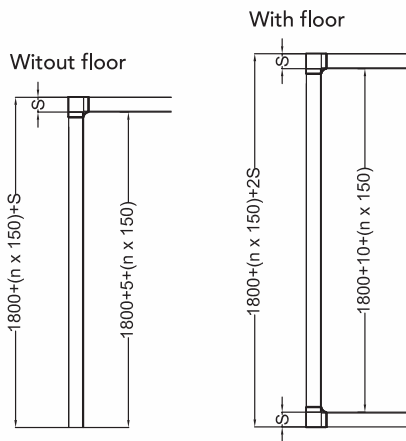
When the cold room is made without a floor panel, the vertical panels are mounted on specially designed profiles. The profiles are designed for easy cleaning. Placing goods in the cold rooms without floor panel, may be done with the use of trolleys and small hand pallet truck.



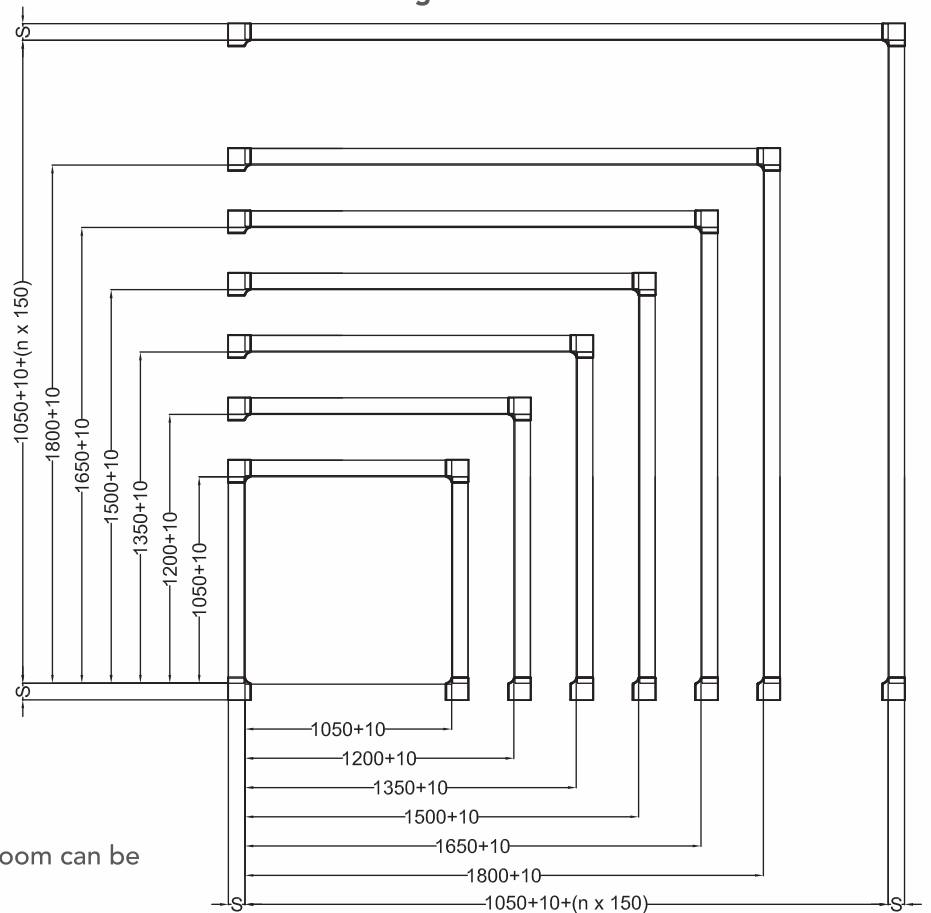
MODULARITY AND DIMENSIONS

Height of cold room:

15 standard cold room panel heights from 1800 to 3900mm (module 150mm)
Depending on the temperature regime, the panels are made in two different thicknesses: S=80 mm i S=120mm.



Length x width



Note:

The maximal length of one side of cold room can be 3900+2Smm and other on request.

Inner dimension of the cold room = total length(width) of the panel +10

External dimensions of the cold room = inner length(width) of the cold room +2S

The doors on the cold rooms are revolving door with a thermal break and a rubber gasket (and with a floor gasket for cold room without floor) filled with polyurethane and reinforced with outer sheet metal.
Dimensions of the light door opening:

- 600x1935 (1955)
- 700x1935 (1955)
- 800x1935 (1955)
- 900x1935 (1955)
- 1000x1935 (1955)

*1935 (1955) with floor and without floor.

They are equipped with hinges and a locking lock as well as a handle for safety opening from the inside.

Door frame for minus cold room is supplied with a heater.

