

## General Product Description

Coldroom panels of modular design, free of thermal bridges, robust, and accurate to size.

**Insulation:** Water-based rigid PUR-system, foamed entirely without CFC, halogenated CFC, and fluorocarbon, in accordance with the EU Halon Guidelines dated 01. 01. 2003. Insulation density 40 – 45kg/m<sup>3</sup>

Wall thickness 80 mm: recommended temperature range up to +2°C, for temperature differences up to  $\Delta T = 40$  K in accordance with DIN 2055

Wall thickness 100 mm: recommended temperature range up to -20°C, for temperature differences up to  $\Delta T = 50$  K in accordance with DIN 2055

Wall thickness 120mm: recommended temperature range up to -30°C, for temperature differences up to  $\Delta T = 55$  K in accordance with DIN 2055

Wall thickness 150mm: recommended temperature range up to -45°C, for temperature differences up to  $\Delta T = 70$  K in accordance with DIN 2055

**Cladding:** The CELLTHERM standard coldroom consists of the following interior and exterior cladding:

- Prime galvanized sheet steel with a white zinc-aluminum-coating, baked-on enamel
- Colour: RAL 9002
- Thickness: 0,63mm
- In addition, all panels are covered by protective foil for transport and assembly. Foil to be removed after assembly.

Additional finishes are available upon request!

**Wall design:** All panels are easily assembled thanks to a unique male and female profiling which ensures accurate panel line-up and prevents incorrect mounting.

Cam-locks within the panels give a fast build-up and guarantee a tight, efficient joint preventing ingress and moisture.

**Floors:**            **The following floor panels are available for interior cladding:**

**Plastic coated GFK**

Anti-slip, reinforced plastic coated surface on waterproof hexagonal birch plywood.

max. permissible load per rubber wheel:	200 kg
Load bearing surface:	4 cm <sup>2</sup>
max. permissible surface load:	30.000 N
Anti-slip property:	R11

**Stainless steel (1.4301) pattern rolled or ground**

**Material thickness 0.8 / 1.5 mm**, waterproof birch plywood directly foamed and covered by stainless steel.

max. permissible load per rubber wheel:	200 / 300 kg
Load bearing surface:	4 cm <sup>2</sup>
max. permissible surface load:	20.000 / 30.000 N
Anti-slip property:	R11 / R12 (no extra charge)

**Stainless steel (1.4301) floor pan or plate hot rolled - Material thickness 3.0 mm**

Floor Pan entirely glued to a waterproof birch plywood. After coldroom assembly, a pan consisting of hot rolled stainless steel which exhibits edges drawn up to a height of 30 mm and welded in the corners is entirely glued to the multiplex plate. Z-profile borders the floor / wall. Reinforced in the area of the seam and firmly attached in a waterproof manner by means of counter-sunk cup blind rivets.

Floor Plate same as Pan without drawn up edges and Z-profile.

max. permissible load per rubber wheel:	400 kg
Load bearing surface:	4 cm <sup>2</sup>
max. permissible surface load:	40.000 N
Anti-slip property (optional):	R11 / R12

**Doors:**            Single leaf hinged doors which can be opened to the outside, supported with a replaceable door gasket resistant to fats and acids and adjustable rising butt hinges. Press lever or Jumbo handle, lockable, emergency opener on the inside. Doors can be optionally hinged left or right.

**Cladding:**        Doors in the deep-freeze area exhibit a door frame heater and a heated pressure relief valve. Threshold of stainless steel, door and door frame profiles extruded from a special plastic, highly resistant to impact and suitable for temperatures down to -65°C.

Additional claddings are available upon request!

**Aeration Rings**        For freezers, we generally recommend underfloor aeration rings (210 mm in diameter, optionally 40, 30 or 20 mm in height). The distance between two rings shall not exceed 600 mm. In cases of higher wheel loads, the distance between the rings should be reduced to 300 mm.

**CELLTHERM- modules of only 175 mm Spacing in Length and Width**

<b>Standard heights:</b>	165 cm	180 cm	195 cm	210 cm	225 cm
<b>(interior)</b>	240 cm	255 cm	270 cm	300 cm	330 cm

To determine the exterior height, the thickness of the respective insulation—and in cases of freezers an additional 40 mm for the underfloor aeration rings—are to be added.

**3D Format – Exterior Dimensions (Example for Insulation Thickness 80 mm)**

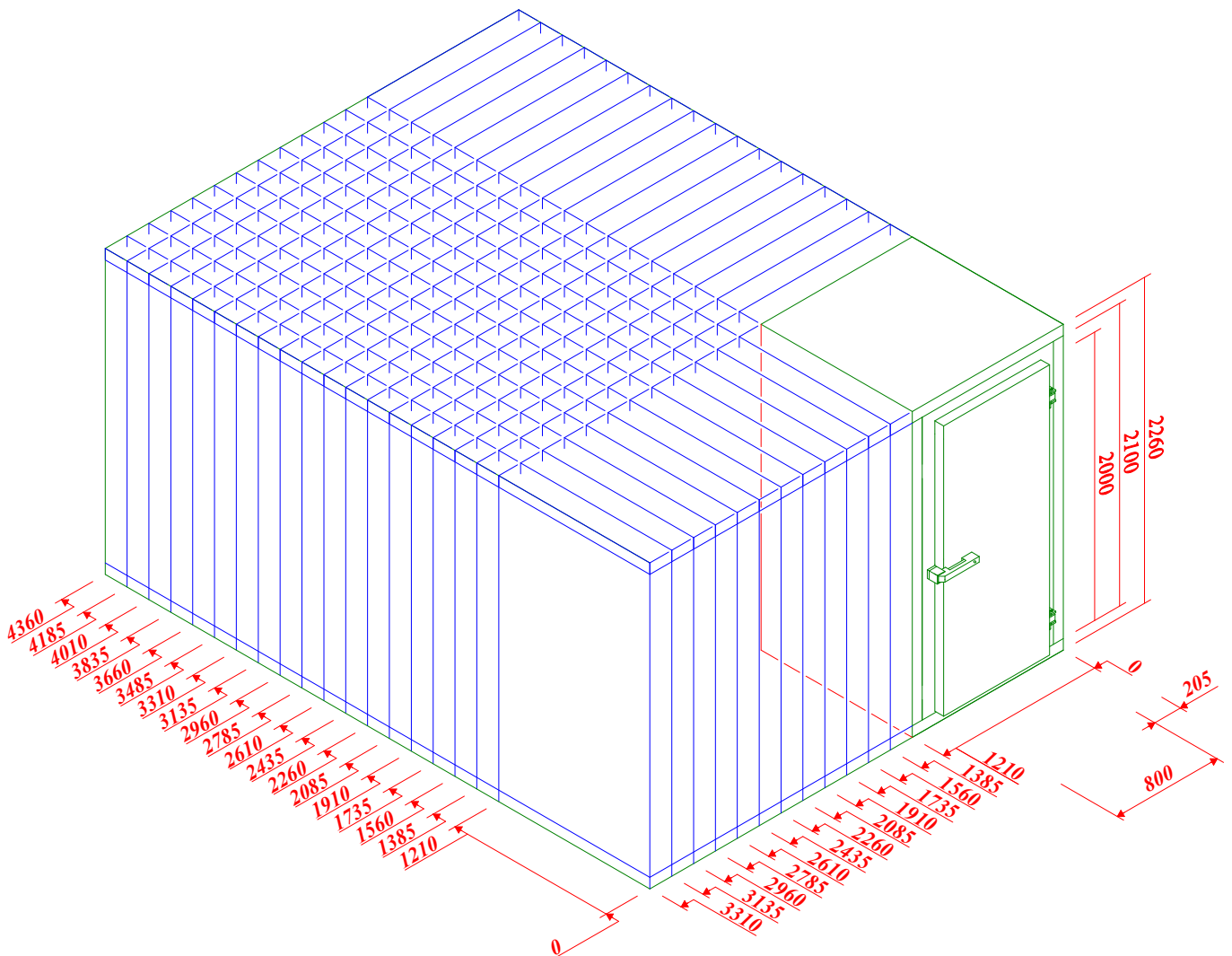


Table Overview

Insulation 80 mm		Insulation 100 mm		Insulation 120 mm		Insulation 150 mm	
Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior
1,210	1,050	1,250	1,050	1,290	1,050	1,640	1,340
1,385	1,225	1,425	1,225	1,465	1,225	1,815	1,515
1,560	1,400	1,600	1,400	1,640	1,400	1,990	1,690
1,735	1,575	1,775	1,575	1,815	1,575	2,165	1,865
1,910	1,750	1,950	1,750	1,990	1,750	2,340	2,040
2,085	1,925	2,125	1,925	2,165	1,925	2,515	2,215
2,260	2,100	2,300	2,100	2,340	2,100	2,690	2,390
2,435	2,275	2,475	2,275	2,515	2,275	2,865	2,565
2,610	2,450	2,650	2,450	2,690	2,450	3,040	2,740
2,785	2,625	2,825	2,625	2,865	2,625	3,215	2,915
2,960	2,800	3,000	2,800	3,040	2,800	3,390	3,090
3,135	2,975	3,175	2,975	3,215	2,975	3,565	3,265
3,310	3,150	3,350	3,150	3,390	3,150	3,740	3,440
3,485	3,325	3,525	3,325	3,565	3,325	3,915	3,615
3,660	3,500	3,700	3,500	3,740	3,500	4,090	3,790
3,835	3,675	3,875	3,675	3,915	3,675	4,265	3,965
4,010	3,850	4,050	3,850	4,090	3,850	4,440	4,140
4,185	4,025	4,225	4,025	4,265	4,025	4,615	4,315
4,360	4,200	4,400	4,200	4,440	4,200	4,790	4,490
4,535	4,375	4,575	4,375	4,615	4,375	4,965	4,665
4,710	4,550	4,750	4,550	4,790	4,550	5,140	4,840
4,885	4,725	4,925	4,725	4,965	4,725	5,315	5,015
5,060	4,900	5,100	4,900	5,140	4,900	5,490	5,190
5,235	5,075	5,275	5,075	5,315	5,075	5,665	5,365
5,410	5,250	5,450	5,250	5,490	5,250	5,840	5,540
5,585	5,425	5,625	5,425	5,665	5,425	6,015	5,715
5,760	5,600	5,800	5,600	5,840	5,600	6,190	5,890
5,935	5,775	5,975	5,775	6,015	5,775	6,365	6,065
6,110	5,950	6,150	5,950	6,190	5,950	6,540	6,240
6,285	6,125	6,325	6,125	6,365	6,125	6,715	6,415

Insulation 80 mm		Insulation 100 mm		Insulation 120 mm		Insulation 150 mm	
Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior
6,460	6,300	6,500	6,300	6,540	6,300	6,890	6,590
6,635	6,475	6,675	6,475	6,715	6,475	7,065	6,765
6,810	6,650	6,850	6,650	6,890	6,650	7,240	6,940
6,985	6,825	7,025	6,825	7,065	6,825	7,415	7,115
7,160	7,000	7,200	7,000	7,240	7,000	7,590	7,290
7,335	7,175	7,375	7,175	7,415	7,175	7,765	7,465
7,510	7,350	7,550	7,350	7,590	7,350	7,940	7,640
7,685	7,525	7,725	7,525	7,765	7,525	8,115	7,815
7,860	7,700	7,900	7,700	7,940	7,700	8,290	7,990
8,035	7,875	8,075	7,875	8,115	7,875	8,465	8,165
8,210	8,050	8,250	8,050	8,290	8,050	8,640	8,340
8,385	8,225	8,425	8,225	8,465	8,225	8,815	8,515
8,560	8,400	8,600	8,400	8,640	8,400	8,990	8,690
8,735	8,575	8,775	8,575	8,815	8,575	9,165	8,865
8,910	8,750	8,950	8,750	8,990	8,750	9,340	9,040
9,085	8,925	9,125	8,925	9,165	8,925	9,515	9,215
9,260	9,100	9,300	9,100	9,340	9,100	9,690	9,390
9,435	9,275	9,475	9,275	9,515	9,275	9,865	9,565
9,610	9,450	9,650	9,450	9,690	9,450	10,040	9,740
9,785	9,625	9,825	9,625	9,865	9,625	10,215	9,915
9,960	9,800	10,000	9,800	10,040	9,800	10,390	10,090
10,135	9,975	10,175	9,975	10,215	9,975	10,565	10,265
10,310	10,150	10,350	10,150	10,390	10,150	10,740	10,440
10,485	10,325	10,525	10,325	10,565	10,325	10,915	10,615
10,660	10,500	10,700	10,500	10,740	10,500	11,090	10,790
10,835	10,675	10,875	10,675	10,915	10,675	11,265	10,965
11,010	10,850	11,050	10,850	11,090	10,850	11,440	11,140
11,185	11,025	11,225	11,025	11,265	11,025	11,615	11,315
11,360	11,200	11,400	11,200	11,440	11,200	11,790	11,490
11,535	11,375	11,575	11,375	11,615	11,375	11,965	11,665
11,710	11,550	11,750	11,550	11,790	11,550	12,140	11,840

Insulation 80 mm		Insulation 100 mm		Insulation 120 mm		Insulation 150 mm	
Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior
11,885	11,725	11,925	11,725	11,965	11,725	12,315	12,015
12,060	11,900	12,100	11,900	12,140	11,900	12,490	12,190
12,235	12,075	12,275	12,075	12,315	12,075	12,665	12,365
12,410	12,250	12,450	12,250	12,490	12,250	12,840	12,540
12,585	12,425	12,625	12,425	12,665	12,425	13,015	12,715
12,760	12,600	12,800	12,600	12,840	12,600	13,190	12,890
12,935	12,775	12,975	12,775	13,015	12,775	13,365	13,065
13,110	12,950	13,150	12,950	13,190	12,950	13,540	13,240
13,285	13,125	13,325	13,125	13,365	13,125	13,715	13,415
13,460	13,300	13,500	13,300	13,540	13,300	13,890	13,590
13,635	13,475	13,675	13,475	13,715	13,475	14,065	13,765
13,810	13,650	13,850	13,650	13,890	13,650	14,240	13,940
13,985	13,825	14,025	13,825	14,065	13,825	14,415	14,115
14,160	14,000	14,200	14,000	14,240	14,000	14,590	14,290
14,335	14,175	14,375	14,175	14,415	14,175	14,765	14,465
14,510	14,350	14,550	14,350	14,590	14,350	14,940	14,640
14,685	14,525	14,725	14,525	14,765	14,525	15,115	14,815
14,860	14,700	14,900	14,700	14,940	14,700	15,290	14,990
15,035	14,875	15,075	14,875	15,115	14,875	15,465	15,165
15,210	15,050	15,250	15,050	15,290	15,050	15,640	15,340
15,385	15,225	15,425	15,225	15,465	15,225	15,815	15,515
15,560	15,400	15,600	15,400	15,640	15,400	15,990	15,690
15,735	15,575	15,775	15,575	15,815	15,575	16,165	15,865
15,910	15,750	15,950	15,750	15,990	15,750	16,340	16,040
16,085	15,925	16,125	15,925	16,165	15,925	16,515	16,215
16,260	16,100	16,300	16,100	16,340	16,100	16,690	16,390
16,435	16,275	16,475	16,275	16,515	16,275	16,865	16,565
16,610	16,450	16,650	16,450	16,690	16,450	17,040	16,740
16,785	16,625	16,825	16,625	16,865	16,625	17,215	16,915
.....		.....		.....		.....	

**Specific dimensions upon request**