

BITZER CO2 INSTALLATION & COLD ROOM



GENERAL INFORMATION

Cell temperature: $\pm 4\text{ }^{\circ}\text{C}$

Total capacity: 25 kW *

Outside dimensions: 25000 mm x 8000 mm x 3100 mm

Internal dimensions: 24800 mm x 7800 mm x 2900 mm

Floor area: 194 m²

Volume: 600 m³

100 mm PIR walls and ceiling for cold room.

Year of construction: 2021

* Capacity based on an evaporating temperature of $-8\text{ }^{\circ}\text{C}$.

PANEL SPECIFICATIONS

Manufacturer:	ISOCAB/KIM
Type:	IND10
Insulation panel thickness:	100mm
Panel width:	1180mm
Insulation value:	RC 5.21
Insulation core:	PIR foam, polyisocyanurate 40 kg/m ³
Interior lining:	0.53 mm galvanized steel sheet, coated with 25 µm polyester paint
Exterior covering:	0.53 mm galvanized steel sheet, coated with 25 µm polyester paint. Color RAL 9010
Profiling:	Profiled on both sides as standard
Fire class:	B-s1,d0

KIM / COOL-IT COOLING SLIDING DOOR SR8K - PAINT ELECTRICALLY OPERATED

Amount:	1 piece
Clearance:	2500 x 2500 mm (w x h)
Insulation:	Door leaf constructed from 80 mm thick CFC-free PU insulation
Finish:	The door leaf is made of 0.60 mm thick steel sheet on both sides, provided with 25 µm polyester paint
Color:	Door leaf and frame RAL 9010
Frame:	Structural plastic frame with PU filling, with thermal bridge interruption, provided with 25 µm polyester paint
Clamp frame:	Panel-encompassing steel and insulated clamp frame, provided with 25 µm polyester paint
Rail system:	Stainless steel round rails with drop lifting system
Door fittings:	Stainless steel/plastic printing lever on both sides of the door leaf
Service:	Electrically operated utilizing a CF-Economy machine with microprocessor and PLC control. Completely plug-in ready for 220 V. A specially developed frequency converter in combination with integrated door control guarantees smooth acceleration and braking of the door. This avoids unnecessary forces on the motor, door drive and guides.
Management:	Using two pull switches and a push button switch on both sides of the door
Speed:	Opening and closing speed of approximately 0.40 m/sec
Safety:	Black plastic pressure strip security on the closing side of the door leaf.
Seal:	Door leaf fitted on four sides with exchangeable hermetically sealing rubbers

MACHINE SET, GAS COOLER AND CONTROL CABINET

Cell temperature:	+ - 4 °C
Cooling capacity:	25 kW at -8 °C
Unit size:	2200 mm high 1000 mm deep 800 mm wide
Weight:	820 kg
Refrigerant:	R744 (CO2)
Provided with:	Casing
Power supply:	400 V
Number of compressors:	2 pieces Bitzer 4KTE-10K-40S (mid-temperature)
Line-up:	Inside
Optional:	Freezing possibility with Bitzer 2HSL-3K-40S (low-temperature)



The supplied switch box is equipped with the control of the cell and two Danfoss drives.

Gas cooler:	50 kW
Line-up:	Outside



COLD ROOM EVAPORATORS

Amount:	4 pieces
Distribution:	Distributed over the long side
Brand:	Delta
Type:	FMT 7028
Capacity:	6.3 kW each
Size:	1370 mm x 470 mm x 465 mm (lxhxd)
Number of fans:	2 pieces (350 mm)
Air quantity:	3000 m3/h
Throw:	14 meters

