Sliding door for negative working temperature mm 120/140

Door to fit on coldrooms with working temperature up to -40°C. It is composed of a monolithic buffer-type sliding doorwing, insulated with injected polyurethan foam, and steel frame.

The doorwing has on the inside and outside a practical and hardy stainless steel long handle, it can have key-lock on the sliding side.

The sliding doorwing has a rubber gasket with heating element on its perimeter and on the lower floor side (triple heating element), it has different devices for the blocking and facilitates the opening and closing by reducing the traction and thrust power to the minimum.

The doorwing cladding can be either with stainless steel, non toxic painted or pvc coated steel sheet or glassfiber.
FEATURES

- $L = L_1 + 100 \text{ mm}$
- $H = H_1 + 50 \text{ mm}$
- $L_A = L_1 + 480$
- $L_B = L_1 + 200$

OPTIONS

- Standard port hole 400x700 triple thermal glass 4-6-4-6-4
- Partial front protection in stainless steel or goffred aluminium (sp.2 mm)

DETAILS

- External key-lock
- Internal lock
- Internal handle
- External handle
- Detail wheel blocking system (closed door)
- Detail heating element on floor

LEGEND

- **A** Standard threshold coldroom without floor
- **1** Gasket on perimeter in epdm rubber
- **2** Pulley
- **3** Thermal interruption
- **4** Steel sheet cover of sliding system
- **5** Wall panel in expanded polyurethan
- **6** Door panel in expanded polyurethan
- **7** Gasket on floor in epdm rubber
- **8** Handles for opening
- **9** Lock
- **10** Rear rail
- **11** Heating
- **12** Heating element
- **13** Supporting frame of pvc, painted st. sheet or s/s

The company reserves the right to introduce changes without prior notice.
**GENERAL**
- **Model:** Cold room insulated sliding door
- **Door type:** see door schedule with relevant drawing, the wing with its frame is outside the panel
- **Application:** suitable for freezer, cold rooms up to -30° centigrade
- **Size of the doors:** for blade thickness 92mm: from 80x180 cm up to 300x300 cm for freezer cold room small size door (up to 100 Kg) for blade 120/140 mm: from 100x200 cm up to 300x300 cm for freezer cold room big size door (up to 200 kg)
- **Thickness of the blade:** 92/120/140 mm

**MAIN CHARACTERISTICS**
- Up rail in aluminium
- Rail guide in aluminium on the panel
- Frame and counter frame in pvc
- Suitable for all types of cold storages units, simple, functional, efficient for thermal ranges up to 60°C, (±30°C)
- Thickness: 92/121/140 mm (blade)
- Colour (STD) white RAL9010 or simile
- Pre-painted of plastified with 25 micron suite for food processing purposes
- Insulated with rigid polyurethane foam 100% CFC free
- Density about 40 kg/m³ (±5 kg/m³)
- Lambda value = 0,0225 W/mK thermal conductivity
- **KVALUE** (DIMENSIONS: clear width max. 3000 – clear height max. 3500 – other sizes on request)

<table>
<thead>
<tr>
<th>Model</th>
<th>Door leaf thickness</th>
<th>K cal / m² h °C</th>
<th>W/m² k</th>
<th>Max kg / m²</th>
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</thead>
<tbody>
<tr>
<td>NEGATIVE</td>
<td>92mm</td>
<td>0,213</td>
<td>0,213</td>
<td>14,20</td>
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<tr>
<td></td>
<td>121mm</td>
<td>0,157</td>
<td>0,183</td>
<td>15,20</td>
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</table>

**MANUFACTURER**
Coldtech s.r.l.
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PH: +39 011 9370518

**WARRANTIES – MANUFACTURER/SUPPLIER/INSTALLER**
3 years for friendly utilization
Hardware: 2 years with friendly utilization

**REQUIREMENTS**
Installer has to be experienced and to follow installation manual provided with the door

**MATERIAL**
Door leaf:
- Monolithic buffer-type door wing of which:
  - Door blade: Edge Anodized aluminium profile (STD) or in stainless steel profile AISI 304 2B, thickness 0,15 mm
  - Insulation: PUR Rigid polyurethane foam, rigid polyurethane foam CFC free, density about 40kg/m³ (±5kg/m³), Lambda value = 0,0225 W/mK
  - Covering: STD Hot dipped galvanized (Sendzimir) pre-painted PVC (silicone polyester) coated or plastified with 25 micron suite for food processing film thickness 0,6mm, humidity resistance (100% relative humidity at 38°C) 1000 h, Anticorrosion class III OR S.STEEL Stainless steel AISI 304 thickness 0,8 mm, anticorrosion, circular depolishing (flowered), Axial smoothing finish OR FIBER GLASS any colour RAL, thickness 2.5 mm
Gasket:
Double execution (lined) neoprene black rubber gasket on three sides and one side on the floor, with double density sold, weight 1.180 g/cm², hardness = Shore A-70, Elongation at break 250% min., tearing resistance 30 KN/m min. operating temperature -35 °C./110°C. At the underside fitted with rubber sweeper gasket.

Hardware:
Double inside, outside handle with thermal bridge interruption

Optional:
porthole in triple glass: round 35cm with gasket or rectangular 40x60 cm with rounded corners

Heater:
heater on the blade and on the frame

Keylock:
in nylon polyammide with 30% fibergalss

Door frame:
> Frame:
Standard in polyvinyl chloride thickness 3mm
Size: 130x47 / 130x65x47 / 140

OPTION PROTECTION:
1) standard Hot dipped galvanized (Sendzimir) pre-painted PVC (silicone polymer) coated or plastified with 25 micron suite for food processing film thickness 0,6 mm, humidity resistance (100% relative humidity at 56°C.) 1000 h. Anticorrosion class III.
1) Stainless steel Stainless steel AISI 304 thickness 0,8 mm, anticorrosion, circular depolishing (flowered). Axial smoothing finish

Side frame:
For modular PVC covered by the same door-leaf covering (pre-painted, plastified or Stainless Steel) size 100/20/40mm

Counter frame:
in PVC, from anodized aluminium or from stainless steel

Threshold
S/1 for the room with step
S/2 floor level with steel angle to fix the jambs
S/3 floor level
S/4 heated floor level
S/5 Special threshold

> Heater
Description: Constant power heater 30 watt 220 volt

Characteristics:
- Insulation: Silicone rubber colour RAL 7000, thickness 0,8 mm
- Protection: Tinned chromate copper diam. 0,15 mm
- Diameter: external 3,6 ± 0,1 mm
- Heated material: mixed NiCr 60/15 or simil
- OHM-values: from 0,1 OHM/m to 30,000 OHM/m
- Capacity: it’s possible to attain capacities of 500 W/m
- Max temperature 180°C

Rail:
> Rail holder and rail in anodized aluminium
> Rail cover in anodized aluminium
> Rear guide in anodized aluminium on the panel

Automation:
> 24 volt DC motor with encoder and inverter

EXECUTION

CONDITIONS:
Delivery, storage and handling: take delivery of material and accessories undercover on flat level surface of floor.
Remove all the package only you start the installation of the doors
Keep dry and avoid to expose the doors, especially those in ss, at the sun

MANUFACTURER’S REQUIREMENT FOR INSTALLATION
Installation should be done in accordance with best practice health and safety procedures.
Install and commissioning to required operation, in according with Coldtech installation requirement, manual and drawings.