



MADE IN ITALY

## DELTA $\delta$ -

Sliding door for negative temperature application

### Sliding door for negative working temperature mm 120/140

Door to fit on coldrooms with working temperature up to  $-40^{\circ}\text{C}$ . It is composed of a monolithic buffer-type sliding doorwing, insulated with injected polyurethane 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.

COLDTECH

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## DETAILS



External key-lock



Internal lock



Internal handle  
External handle

## OPTIONS



Standard port hole  
400x700 triple thermal  
glass 4-6-4-6-4

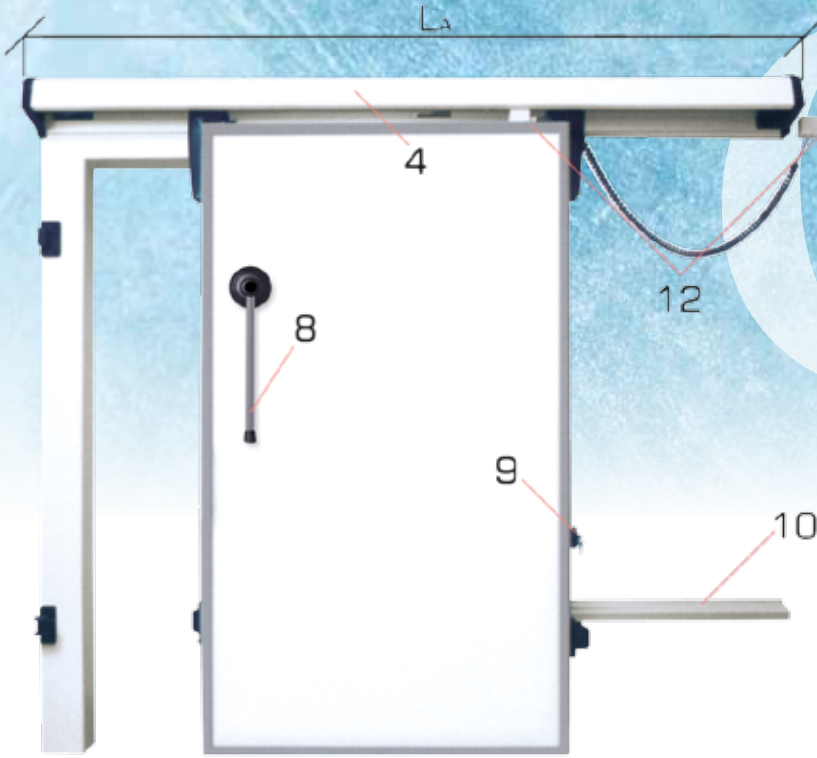


Detail wheel blocking  
system (closed door)



Detail heating element  
on floor

Partial front protection in  
stainless steel or goffred  
aluminium (sp.2 mm)



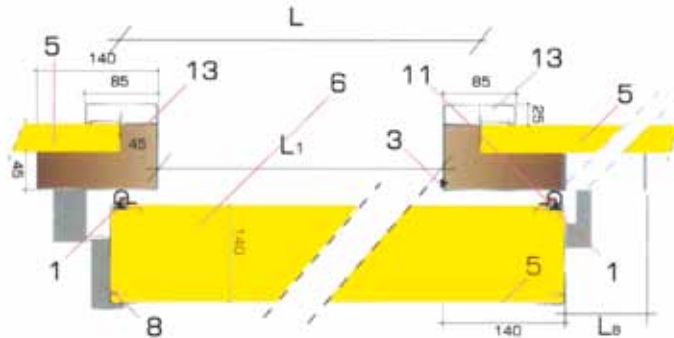
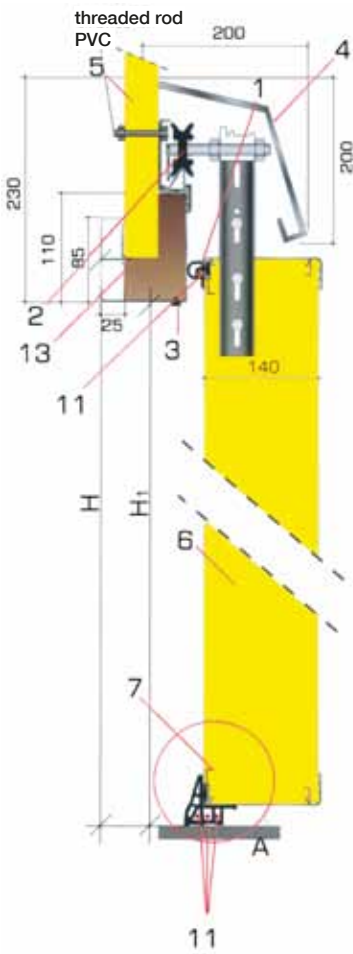
## FEATURES

$$L = L_1 + 100 \text{ mm}$$

$$H = H_1 + 50 \text{ mm}$$

$$L_A = L_{1x2} + 480$$

$$L_B = L_1 + 200$$



## 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 |



## 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 or plastified with 25 micron suite for food process purposes
- Insulated with rigid polyurethane foam 100% CFC free
- Density about 40 kg/m<sup>3</sup> (±5 kg/m<sup>3</sup>)
- Lambda value = 0,0225 W/mk thermal conductivity
- KVALUE (DIMENSIONS: clear width max. 3000 – clear height max. 3500 – other sizes on request)

| Model               | Door leaf thickness | K cal / m <sup>2</sup> h °C | W/m <sup>2</sup> k | Max kg / m <sup>2</sup> |
|---------------------|---------------------|-----------------------------|--------------------|-------------------------|
| <b>SLIDING DOOR</b> |                     |                             |                    |                         |
| <b>NEGATIVE</b>     | 92mm                | 0,213                       | 0,213              | 14,20                   |
|                     | 121mm               | 0,157                       | 0,183              | 15,20                   |

## MANUFACTURER

### Coldtech s.r.l.

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## 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/m<sup>3</sup> (±5kg/m<sup>3</sup>),  
Lambada 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



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- > *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/cm<sup>3</sup>, 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 polyamide 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 polyester) coated or plastified with 25 micron suite for food processing film thickness 0,6 mm, humidity resistance (100% relative humidity at 38°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.

COLDTECH

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