



MADE IN ITALY

BETA β -

Hinged door
for negative temperature
application

Hinged door for negative working temperature mm 95

Door to fit on coldrooms with working temperature up to - 20°C. It is composed of a monolithic buffer-type doorwing, insulated with injected polyurethan foam, and steel frame. The doorwing has an ergonomic handle (with or without key-lock) and on the inside a button with safety release.

The doorwing has a rubber gasket with heating element on its perimeter and on the lower floor side(with triple heating element), standard it has a threshold to enable easy opening and closing. The hinges are with helical ramps.

The doorwing cladding can be either with stainless steel AISI 304, non toxic painted or pvc coated steel sheet or glassfiber.

COLDTECH

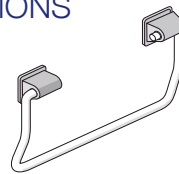
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DETAILS



OPTIONS

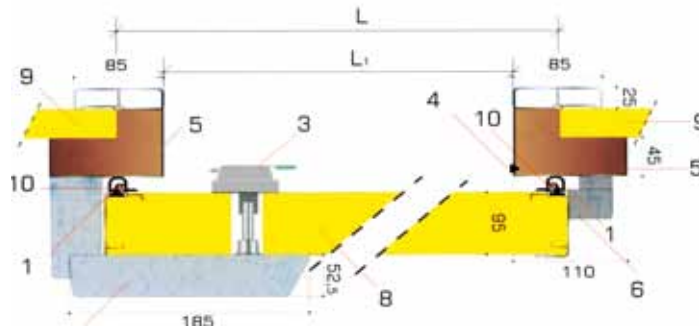
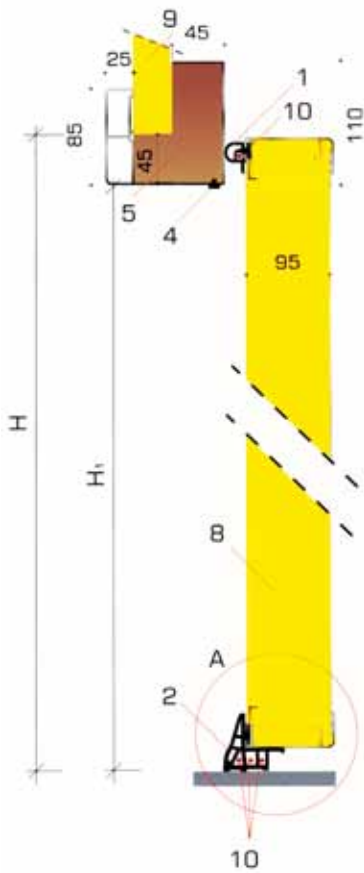


Features

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

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

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



LEGEND

A	Standard threshold coldroom without floor
1	Gasket on perimeter in epdm rubber
2	Gasket on floor in epdm rubber
3	Internal push handle
4	Thermal interruption
5	Supporting frame of pvc, painted st. sheet or s/s
6	Hinges
7	External resin handle
8	Doorblade in expanded polyurethan
9	Wall panel in expanded polyurethan
10	Heating
11	Heating elements



GENERAL

- **Model:** Cold room insulated hinged door
- **Door type:** see door schedule with relevant drawing, the wing with its frame is outside the panel
- **Application:** Suitable for freezer and blast freezer cold room up to -30°C
- **Size:** door from cm 70x175 up to 150x250
- **Thickness of the blade:** 92/120/140 mm

MAIN CHARACTERISTICS

- Frame and counter frame in pvc
- Suitable for all types of cold storages units, simple, functional, efficient for thermal ranges up to -30°C
- Thickness: 92 and 121 mm (blade)
- Colour (STD) white RAL9010 or simile
- Pre-painted of plastified with 25 micron suite for food process purposes
- Insulated with rigid polyurethane foaam 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)

Model	Door leaf thickness	K cal / m ² h °C	W/m ² k	Max kg / m ²
HINGED DOOR				
NEGATIVE				
	92mm	0,213	0,213	14,20
	121mm	0,157	0,183	15,20

MANUFACTURER

Coldtech s.r.l.

Web: www.coldtech.tech

Email: coldtech@coldtech.it

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 40 kg/m³ (±5 kg/m³),
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
- > **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/cm³, hardness = Shore A-70, Elongation at break 250% min., tearing resistance 30KN/m min. operating temperature -35 °C./110°C. At the underside fitted with rubber sweeper gasket.



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> *Hardware:*

Handles: in nylon polyamide with 30% fiberglass, food safe proof with outside lever
Actioning inside mechanism linked to the frame
Thermal bridge interruption between outside mechanisms
Different colour and personalization with client log

Hinges: 2 models with ramp of which:

1. For door up to 80 kg weight (2 hinges for wing)
2. For door up to 150 kg weight (3 hinges for door) vertically adjustable

> *Optional:*

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

> *Heater:*

heater cable on the blade and on the frame

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.

3) 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 100/20/40 mm

> *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 $3,6 \pm 0,1$ 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

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 accordling with Coldtech installation requirement, manual and drawings.



Via Rivera 136/2 – 10040 Almese (TO)

Tel. 0119370518 – Fax 0119319297

coldtech@coldtech.it - www.coldtech.tech