

High Speed Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

**High Speed Doors
for temperatures
up to -30°C**

- Maximum w x h: 3500mm x 5000mm
- Max Opening Speed: 1 m/s – 1.5 m/s
- Max Closing Speed: 1.0 m/s
- Wind Resistance: Up to 3 Beaufort
- Door Curtain Thickness: 0.7mm – 1mm
- Guides, Drive, Control, Photocell: All Heated
- Freeze Prevention Auto Open: Every 15mins
- Regulations EN13241 Compliant

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ARCTIC – THE FAST FREEZER DOOR

The **Tornado® Arctic** High Speed Door has been specifically designed to operate in temperatures to -30°C (freezers or extremely cold environments). By rapidly closing the cold room it prevents drafts. The result is a more manageable cold climate and significant energy savings.

Dimensions	
max. width (W)	3500 mm
max. height (H)	5000 mm
max. wind force	3 Beaufort
required lateral space at the guides	160 mm
required lateral space at slip on drive	310 mm
required lateral space at drive for fitting	550 mm
Lateral space at side guide profiles	100 mm
Space above	875 mm

Components and Construction

The **Tornado® Arctic** is a door without balance springs, consisting of an electrically driven door curtain rolled up on a roller above the opening. The door curtain is made of horizontal sections of polyester-reinforced PVC. The sections are fitted with an aluminium reinforcement profiles. The bottom of the door curtain has an aluminium bottom beam with rubber sealing profile. A U-shaped profile with rubber seals ensures the guidance of the door curtain. The lateral guides form one unit with the bearing plates for fitting the roller and drive.

Materials

The lateral guide is made of 2 hot tip galvanised steel profiles with brush seals which are removeable for installation and maintenance. The horizontal roller is steel. The bottom beam is aluminium. The door curtain is 0.7mm – 1mm thick PVC with a polyester reinforcement inlay.

Colours

The door curtain is available in blue, red, orange, yellow, black, grey or white. A transparent vision section is not possible at very low temperatures.

Drive

The drive consists of an electrical motor with reduction unit and built in roll off safety. The roller is directly driven.

Mains Voltage:	3N~400V/50Hz/16A
Degree of Protection:	IP65
Consumed Power:	max.2kW

*Surcharge applicable

Protection

- The door can be manually opened in the case of power loss
- Radar behind and in front of the door
- On the lateral guide profiles a safety photocell and reflector are fitted as standard (250mm from the floor). The door will not close if the beam is interrupted
- Ice detection: the door stops immediately upon detecting ice
- The drive has built-in roll-off safety
- The guides, the drive, the control panel and the photocells are heated to ensure proper functioning at very cold temperatures

Structural provisions and connection

- A flat mounting frame and the necessary mounting space must be available.
- Exact installation dimensions in the Technical Datasheet.
- Within 500mm radius of where the control unit will be positioned, mains voltage must be available for electrical connection.
- The control box is usually fitted at a height of approx. 1,500mm from the floor, preferably outside the freezer room.

Control and operation

The control unit has 3 buttons (open-stop-close) and a CEE plug and regulates a multitude of functions, such as:

- adjustable opentime
- service and runmode
- 'half height' setting
(for persons or small goods transit)

Additional controls that can be connected to the standard control box are:

- operation by push-button, pullswitch, key-operated switch, photocell, radar, induction loop detection or by radio control.

Optional Extras*

Control and operation

- additional controls as described above available at surcharge
- control box provided with an IP67 CEE plug
- main switch directly wired on the control box (IP65)
- 'half height' setting for personal access (T100)
- door interlock control in combination with another door

Protection

- connection of traffic lights (red/green or red and green)
- warning light (orange or red)

Construction

- steel columns in customer specified RAL colour

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