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MIO-Artic 250 High Speed Roll-up Door for "negative temperature environments"

Overview

The MIO-Artic 250, with its Stainless Steel structure, has been designed to stabilize temperatures within a Freezer Room environment. This door can be installed within this negative temperature situation.

The overriding factor associated with cold room inefficiency is the door system. Over 30% of cold room temperature instability is associated with the door.

The MIO-Artic 250 is a High Speed Door so the "open time" is far less than a standard insulated rigid door. More often than not, this High Speed Door is used in conjunction with a standard insulated door, thus ensuring an efficient loading/unloading operation.

The completely transparent Super Polar flexible PVC curtain allows full visibility during operations and is designed for temperatures down to -60°C . However, the curtain remains extremely flexible down to -30°C . in operation and it is therefore to this temperature that we rate our MIO-Artic 250. There is no requirement for upright and ground heating systems.



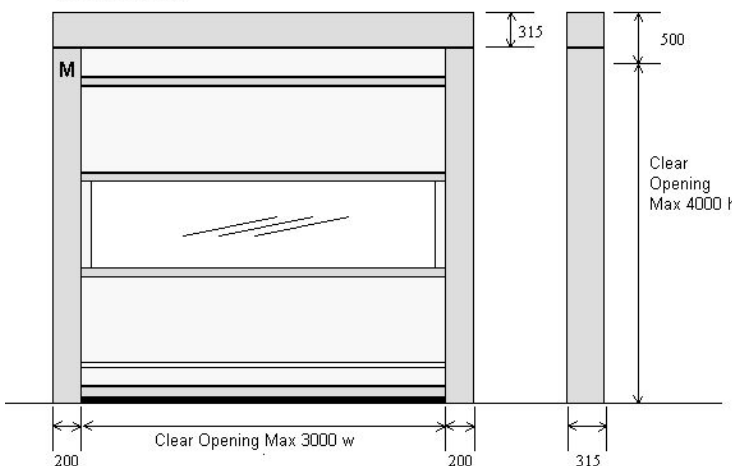
The only heating system is on motor group to keep the temperature of the mechanical brake stable.

To avoid excessive build-up of ice on the curtain, it is necessary to run an opening cycle every ten minutes. (Please ask for further details about this).

Opening front covers on the MIO-Artic give easy access for cleaning and servicing.

The Electric Control Box must be installed outside the cold room in a positive temperature environment.

MIO-Artic 250



MIO-Artic 250 Standard Package includes:

- Self-support enclosed stainless steel structure (AISI 304)
- Motor group suitable for low temperature environment
- Heated Brake System
- Counterbalance System enclosed within frame
- Two pairs of Special Negative Temperature Safety Photocell Sets
- Super Polar (-60°C) Transparent Curtain with interchangeable sections
- Standard Control Panel IP55 (Up Button & Red Stop/Emergency Button)



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Technical Specifications

Installation

Internal use in negative temperature environment up to -30°.

Structure

Stainless Steel AISI 304 self supporting structure. Movable front cover for easy access to inside components. Designed to fit either within structural opening or face-fixed. Full width canopy and motor cover as standard.

Motor assembly

Fitted inside the structure. Three-phase self-braking assembly powered by 220/380 V, with power rating of 0.6 kW. Comes with safety heat detector. Electromagnetic lock brake with special heating system. Irreversible gear-motor oil-immersed, worm screw type. Cam limit-switch assembly

Speed

Opening/closing speed up to 1.0 m/sec..

Flexible Curtain

Interchangeable section curtain. Fully transparent Super Polar PVC for temperature up to -60°.

Bottom edge made aluminium bar and Super Polar PVC.

Wind Resistance

UNI EN 12424 Class 0/1

Emergency opening

In the event of power failure or malfunction, a counterbalance spring inserted in one of the vertical uprights, allows lifting of the door by operation of the brake release control which is on the door upright at user-height.

Safety photocell

Two pairs of Special Negative Temperature Safety Photocell Sets, transmitter/receiver type UNI 8612 compliant. Stops downward movement of the door and returns it to the open position should any obstacle be detected by the threshold beam.

Optional Additional pairs as required by choice, or current Health and Safety Standards.

PT Control Box/Board

External Standard control box is a up push buttons and emergency push/lock button.

On the Plus control box is a lockable power switch, up and down push buttons, emergency push/lock button, and an automatic/manual selector. The box itself is a robust enclosure (protection degree IP55, in compliance with updated CEE/CEI 44/5 and DIN standards). IP65 compliant push-button board. The solid-state microprocessor digital electronic instrument panel affords easy programming and rapid replacement operations in the event of faults, as well as ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates malfunctioning by means of dedicated LED lamps. The board also features a safety heat detector. Note : Must be installed outside cold room in positive temperature environment.

Optional opening devices

A full range of remote controls are available e.g. radio control transmitter or induction loop system

Warranty

The manufacturer gives a standard warranty of 12 months from delivery date on every product.

Product compliant with EC Directive 89 / 392 and new EN 13241-1.