

#### Overview

STAR 250 Arctic has been designed to suit freezer rooms where the door is within a negative temperature environment.

The high speed operation ensures the opening is closed off far more than when a standard insulated rigid door is fitted.

STAR 250 Arctic can be used in addition to the standard insulated door for loading/unloading operations.

Having a special SuperPolar completely transparent curtain ensures full visibility during operation.



**Product compliant with EC Directive BS EN 13241-1**



**System Doors**  
SYSTON ROLLING SHUTTERS LTD TRADING AS SYSTON DOORS

33 Albert Street, Syston, Leicester LE7 2JB, U.K.  
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### Product PLUS

#### Negative temperature resistance

The flexible transparent PVC curtain is a special SuperPolar material that resists up to - 60 deg C. This feature allows it to keep flexible up to -30 deg C in operation. Furthermore there's no need to have upright or ground heating systems to avoid ice build-up.

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

To avoid excessive ice generation it is mandatory to run an opening cycle every 10 minutes when the door is not operating during its normal operation.



#### Structure

All mechanical and electromechanical components are housed inside the structure.

STAR 250 Arctic can be easily serviced by opening the front cover.

The electric control panel must be installed outside the cold room in a positive temperature environment.



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# STAR 250 Arctic

## High Speed Roll up door for negative temperature environment

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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 SuperPolar PVC for temperature up to -60°. Bottom edge made aluminium bar and SuperPolar PVC.

#### Wind pressure resistance

BS EN 12424 Class 0 / 1.

#### Safety device

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

One Pair of transmitter/receiver type BS 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. Optional Photocells up-rated from IP55 to IP57.

#### PT Control Box/Board

The standard control panel includes an 'open' button and emergency stop button with latching facility to switch off the door.

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 IP 55, in compliance with updated CEE/CEI 44/5 and DIN standards). IP 65 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

Standard warranty of 12 months from date of installation.

#### Certification

Product compliant with EC directive BS EN 13241-1.



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