

Klimate High Speed Doors

KLIMATE K2 INSULATED HIGH SPEED DOOR SPECIFICATION

The Klimate K2 Insulated is an insulated high-speed door designed to be installed on the ambient side of a freezer or chiller door way. The Klimate K2 will maintain the freezer / chiller temperature when closed, with its unique 3 ply 30mm thick door curtain.

MECHANICAL SPECIFICATION

1. DOOR CURTAIN:

30mm thick, closed cell, cross-linked insulation, covered both sides with 900 gram High gloss, lacquered Polyester with a Panama cloth weave base. Available in a large range of colours. Providing a barrier which:

- Has good Insulation Qualities
- Resists Air Currents
- Remains ice & condensation free
- Provides a Sound Barrier
- Very low running costs

2. CURTAIN BARREL:

Constructed from 139mm O/D mild steel tube with machined blocks at each end incorporating high-speed bearings.

3. SIDE GUIDES:

Fabricated from 3mm thick pre folded galvanised steel sections. The side guides are heated and fitted with a class 2 sealing system. They also support the barrel, curtain and motor assembly. All steel is powder coated white, as standard, other BS colours are available.

4. BOTTOM RAIL / SAFETY EDGE:

Constructed from 4mm thick box section steel to give high impact resistance with insulated outer covers fitted. A fully monitored wireless safety edge is fitted to the bottom rail forming a continuous door seal.

5. HINGED BREAK-AWAY TABS:

Hard wearing hinged memory plastic end cassettes are fitted to each side of the bottom rail. If the door is impacted, one or both cassettes break out reducing the risk of severe damage to the bottom rail. The door will stop at the point of impact and requires a key to move the door on the push button station. These cassettes can be reset by on site maintenance personnel reducing 'down' time and callout charges. An optional data-logging device can be fitted to record what date and time the door has been impacted.

ELECTRICAL SPECIFICATION

1. MOTOR-DRIVE UNIT.

Three Phase 400v AC worm gear and brake motor, incorporating a pulse generator for accurate door positioning. The drive unit can be used on manual in the event of power failure. Curtain barrel is driven directly by the motor drive unit eliminating the need for a chain drive. Opening speed and closing speed are adjustable. The standard opening speed is 1.5m per second.

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2. CONTROL PANEL

The control panel is a new generation control unit designed for high-speed doors. The unit is programmed via an LED screen, allowing operational parameters to be modified to each users needs.

The panel is housed in a metal IP55 rated enclosure and the following features can be programmed via the LED: Run timer, Automatic / Semi automatic running, Auto return timer (0-240 seconds), limit switch monitoring, Photocell monitoring, Safety edge monitoring, Optional contact for warning lights. The system has been specifically designed for high-speed doors. It combines the door control features and variable speed inverter to provide a smooth operating door.

In addition the clear diagnostic display shows the current status of the door, the number of cycles the door has completed, which actuator is operating the door and the five most recent faults.

An, open, close, emergency stop button, isolator and LED window are sited on the control panel.

The control panel is future proofed due to the unique way that software can be loaded. This enables new solutions and applications to be loaded onto new and existing control panels. For example if a new safety edge is developed then the relevant software can be loaded onto an existing control panel to allow it to be used.

3. SEALING SYSTEM

Heated seals are fitted around the complete door; this gives an excellent Class 2 passage of air through closed doorways (according to BS EN 12426:2000 $\leq 12 \text{ m}^3/\text{m}^2/\text{hr}$).

4. SAFETY FEATURES

Two 24v AC Photo-electric safety beam (constantly monitored) are fitted providing a closing safety device.

A fully monitored wireless safety edge system is fitted to the bottom rail providing an instantaneous stop/reverse feature should the bottom rail come into contact with an object before it reaches the floor. The safety edge is also constantly monitored and programmable.

A hand-crank is fitted to the bottom of the motor for manual operation.

5. ACTUATION

The following options are available

- Induction loop vehicle detectors
- Remote push buttons
- Remote pull switches
- Key fob /Hand held /Fork truck mounted transmitter units
- Radar movement detectors
- Remote photoelectric cells.

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6. OPTIONS

- Solid Coloured Curtains
- Screen Printed Curtains
- Traffic lights
- Warning sirens
- Extra Photo electric beams for pedestrian safety
- Motor Canopies
- Heated motor & control panel (no cost option)

7. CE CONFORMITY

All doors conform to CE Marking Regulations EN 1324.1 2003

Water permeability (0)
Resistance to wind (2)
Thermal resistance (0)
Air permeability (2)

8. SITE REQUIREMENTS

Door power requirements

Three phase and neutral isolator to the side of the opening. Fed from a 16Amp C rated circuit breaker to be made available 1m from the door opening and to the drive side of the door.

9. WARRANTY/GUARANTEE

12 Months or 500,000 cycles, parts and labour excluding damage not caused by normal operation.

The company reserves the right to change specification without notice.