

Klimate High Speed Doors

More Than Just Speed

Established in 1987, Klimate is a specialist manufacturer of high speed doors. All doors are designed and manufactured to meet the specific, tailor-made needs of you, our customer.

Klimate's unique range of high speed doors are already installed in over 1500 leading manufacturing and storage sites throughout the UK. Together, the full range of high speed doors ensure a clean and safe environment, maintaining environmental standards.

Other services available from Klimate include maintenance contracts and repairs to all competitors makes and models of high speed doors. All Klimate high speed doors can be characterised by their low maintenance technology offering customers a cost effective solution to any opening.

Technical Sales Advice Our team of Technical Account Managers are all industry trained and fully qualified to assess your own individual requirements, recommend the most suitable application and provide ongoing advice throughout the lifetime of the door.

Installation All our high speed doors are fitted by experienced high speed door engineers, who are all qualified electricians.

Technical Support Following installation, you can relax and enjoy peace of mind knowing that whenever you need help, a dedicated technical support line is available.

Maintenance and Repair A full maintenance and contract service is available to cover all your high speed doors including repairs to existing Klimate high speed doors or any competitor's high speed door.

Parts At Klimate, we have a unique service which offers customers a full range of parts for our own brand and competitor products. This unique service often helps customers dramatically reduce the cost of maintenance on high speed doors.

Warranty All high speed doors come with a minimum 12 months parts and labour warranty or 500,000 cycles.



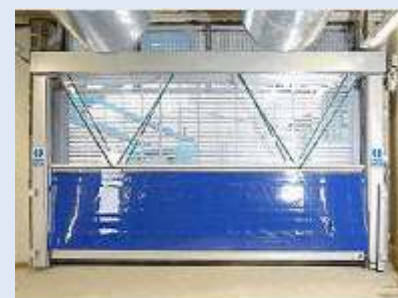
ARDENT XP

The Ardent is intended for use in external locations. Complete with crash resistant feature, the high speed door has manual re-set after impact. The recommended size of opening is up to 5 metres wide and 5 metres high.



ARDENT Oversize

The Ardent Oversize is a door designed for use in large external locations complete with manual re-set after impact. The recommended size of opening is up to 10 metres wide and 6 metres high (larger door sizes are available).



ARDENT Stainless Steel

The Ardent Stainless Steel is a specially designed high speed door for applications where demands on hygiene are high. The recommended size of opening is up to 4 metres wide and 4 metres high.



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KLIMATE
K2
FREEZER DOOR

Manufactured
in the UK

KLIMATE K2 Freezer Door

K2 SPECIFICATION

MECHANICAL DATA

DOOR CURTAIN:

5mm thick, white PVC sheet (solid colours with or without vision panel) proving a barrier which:

- Has good insulation qualities
- Resists air currents
- Remains ice & condensation free
- Provides a sound barrier

N.B. Slight discolouration can occur where two PVC sheets are joined. This is unavoidable when trying to achieve a strong weld.

CURTAIN BARREL:

Constructed from 168mm O/D mild steel tube with machined blocks at each end incorporating high-speed bearings.

SIDE GUIDES:

Fabricated from 3 mm 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.

BOTTOM RAIL/ SAFETY EDGE:

Constructed from 4 mm thick box section galvanised steel to give high impact resistance with stainless steel outer covers fitted. An electric fully monitored heated safety edge is fitted to the bottom rail forming a continuous door seal.

DAMAGE LIMITATION TABS:

Hard wearing and low impact resistant acrylic end cassettes are fitted to each side of the bottom rail. If the door is impacted, one or both cassettes break off reducing the risk of severe damage to the bottom rail. These cassettes can be replaced by on site maintenance personnel reducing 'down' time and callout charges.

CANOPY:

All doors come with a powder coated main canopy.

ELECTRICAL DATA

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.

CONTROL PANEL:

The control panel is a new generation control unit designed for high-speed doors. The unit is programmed via an LED, 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.

AIRFLOW SEALING SYSTEM:

Six single-phase 0.55kw motors each fitted with a high out-put fan are housed in a galvanised steel then powder coated enclosure. Providing a constant stream of ambient air to a maximum volume of 22200 m³/hr. Featuring adjustable air jet and velocity controls giving three speed options depending on site conditions and door opening height. This system clears the curtain of condensation and provides an air barrier when the door is open.

Heated seals are fitted around the complete door, including the bottom rail safety edge. This gives an excellent Class 2 passage of air through closed doorways (according to BS EN 12426:2000 = 12m³/m²/hr).

SAFETY FEATURES:

Two transmit and receive safety beams are fitted providing a closing safety device.

An electric 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, programmable and heated.

A low-level haul chain is fitted to the bottom of the motor for manual operation.

ACTUATION:

The following options are available

- Induction loop vehicle detectors
- Remote push buttons
- Remote pull switches
- Keypad /Hand held /Fork truck mounted transmitter units
- Radar movement detectors
- Remote photo-electric cells.

OPTIONAL EXTRAS:

- Solid coloured curtains
- Screen printed curtains
- Traffic lights
- Warning sirens
- Motor canopies
- Heated motor & control panel (no cost option)
- Extra beams for pedestrian safety
- Emergency push button open from inside the freezer in event of power fail

SITE REQUIREMENTS:

Three phase and neutral isolator to the side of the opening. Fed from a 30 Amp C rated circuit breaker to be made available 1m from the drive side of the door.



The KLIMATE K2 is a frost free high speed door designed to be installed on the ambient side of the freezer door way resulting in low energy costs, high handling efficiency and a safer working environment for cold storage workers.

Frost Free

The K2 uses a unique, fully programmable de-mist system to prevent condensation on the ambient side of the freezer to prevent any ice build up which may effect the efficiency of the door. The de-mist system also acts as an air barrier when the door is open preventing cold air from leaving the freezer and warm air getting into the freezer and creating ice.

Energy Efficient

High speed opening and closing of up to 1.5 m/s, a 5mm thick PVC door curtain giving a U value of 0.73w/m2k, effective heated perimeter sealing to class 2 air permeability according to BS EN 1246:2000 and the unique de-mist system providing an air barrier when the door is open, all significantly reduce energy costs.

Safe Operations

All doors are fitted with two transmit and receive safety beams providing a closing safety device. An electric heated safety edge system is also 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.

Low Maintenance

Hard wearing and low impact resistant acrylic end cassettes are fitted to each side of the bottom rail. If the door is impacted, one or both cassettes break off reducing the risk of severe damage to the bottom rail. These cassettes can be replaced by on site personnel reducing 'down' time and callout charges.

CE Conformity

All doors conform to CE Marking Regulations and are manufactured to the BS EN 1324-1.

Performance Tested

The Klimate K2 has been performance tested to BS EN 12427: 2000, Air permeability test, BS EN 12489: 2000, Water penetration test, BS EN 12444: 2001, Resistance to wind load and, BS EN 13241 .1: 2003, Safe opening of vertically moving doors test with the following results:

- Air permeability - Class 2 (according to BS EN 12426: 2000 \leq 12m³/m²/hr)
- Water penetration - Class 0 (according to BS EN 12425: 2000 < 10 minutes water spray)
- Resistance to wind - (450) Class 2 (according to BS EN 12424: 2000)
- Safe opening - maximum dynamic force 154 N/ 0.03 secs (according to BS EN 12445: 2000)



The company reserves the right to change a specification without notice.