

Klimate High Speed Doors



The high speed automatic opening and closing of the doors, not only provides valuable energy savings by maintaining room temperature, but also reduces contamination due to airborne pollution and ingress of vermin. The working environment is also improved by controlling the traffic flow; easing vehicle access on frequently used doors and also helps to reduce noise levels.

With high speed doors, safety is of paramount importance. As standard, all our UK manufactured high speed doors are supplied with two sets of safety photocells and an extremely sensitive electric safety edge. Both items are constantly monitored, providing an instantaneous stop/reverse feature, should there be an obstruction.

All Klimate doors are characterised by their low maintenance technology and low repair cost, highlighted by the 'crash-out' feature which minimises cost and downtime due to an impact.

Being a UK manufacturer, we have immediate access to replacement component parts, especially for those doors that are under high usage and reliability is key.

Klimate High speed doors are tailor-made to our clients' requirements and can be used in conjunction with conveyors and zoned areas.

They can be manufactured from stainless steel and oversize doors are available.

Benefits

- UK manufactured
- Low maintenance and user friendly
- Technical support
- Fast open and closing speeds
- Continuously rated product

Klimate High Speed Door Specification

Mechanical Specification

Door Curtain	4 mm thick, clear PVC sheet (solid colours with or without vision panel) providing a barrier which resists air currents, provides a sound barrier and has good insulation qualities. 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 139 mm O/D mild steel tube with machined blocks at each end incorporating high-speed bearings.
Side Guides	Fabricated from 3 mm thick pre folded steel sections. The side guides support the barrel, curtain and motor assembly. All steel is powder coated Golden Yellow as standard. Any other BS colour is a free option.
Wind Bars	A single internal and external wind bar system as standard is supplied on all doors. Double and triple wind bar systems are used when the height, width or location dictates. Wind bars are anodised aluminium tube, which run on nylon pulley wheels.
Bottom Rail/Safety Edge	Constructed from 4 mm thick box section steel to give high impact resistance. An electric fully monitored safety edge is fitted to the bottom rail forming the 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. Motor canopies are available.

Electrical Specification

Motor Drive Unit	Three Phase 400v AC worm gear and brake motor, incorporating limit encoder. 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 up to – 1.5 m/s depending on the size of the door.
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 LED shows the number of cycles the door has completed, which actuator is operating the door and the five most recent faults. An, open, close button, emergency stop button, isolator and LED window are sited on the control panel.
Safety Features	Two 24v DC Photo-electric safety beams (constantly monitored) 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 and programmable. A crank handle can be fitted to the bottom of the motor for manual operation.
Actuation	The following options are available; <ul style="list-style-type: none"> ■ Induction loop vehicle detectors ■ Remote push buttons ■ Remote pull switches ■ Keyfob/Hand held/Fork truck mounted transmitter units ■ Radar movement detectors ■ Remote photo-electric cells.
Options	<ul style="list-style-type: none"> ■ Anti Static Curtain ■ Solid Coloured Curtains ■ Screen Printed Curtains ■ Traffic lights ■ Warning sirens ■ Transmitter / receiver monitored safety edge system ■ Extra Photo electric beams for pedestrian safety ■ Motor Canopies
CE Conformity	All doors conform to CE Marking Regulations.
Site Requirements	A 16 Amp three phase, neutral and earth supply to be made available 1m from the door opening to the drive side of the door. A single phase option is available.
Warranty/Guarantee	12 Months or 250,000 cycles, parts and labour excluding damage not caused by normal operation.

The company reserves the right to change specification without notice.