

Climate High Speed Doors

ARDENT STAINLESS STEEL SPECIFICATION

MECHANICAL SPECIFICATION

1. DOOR CURTAIN:

4 mm thick, clear PVC sheet providing a barrier which

- a) Resists Air Currents
- b) Provides a Sound Barrier
- c) 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.

2. CURTAIN BARREL:

Constructed from 127 mm O/D mild steel tube powder coated covered with PVC with machined blocks at each end incorporating high speed bearings.

3. SIDE GUIDES:

Fabricated from 3 mm thick pre folded stainless steel sections. The side guides support the barrel, curtain and motor assembly. All steel is powder coated as standard.

4. BOTTOM RAIL / SAFETY EDGE:

Fabricated from stainless steel to give high impact resistance. An electric fully monitored safety edge is fitted to the bottom rail forming the door seal.

5. DAMAGE LIMITATION TABS:

Hard wearing and low impact resistant polycarbonate 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.

6. CANOPY:

Stainless Steel Canopy.



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ELECTRICAL SPECIFICATION

1. MOTOR DRIVE UNIT.

Three Phase 400v AC worm gear and brake motor, incorporating limit switches for open and close cycles. 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 m/s depending on the size of the door.

2. 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 need.

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, and LED window are sited on the control panel.

3. SAFETY FEATURES

One 24v AC Photo electric safety beam (constantly monitored) is fitted providing a closing safety device.

An electric fully monitored 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.

A hand crank can be fitted to the bottom of the motor for manual operation.



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4. ACTUATION

The following options are available

- 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

1. Traffic lights
2. Warning sirens
3. Extra Photo Electric beams
4. Motor Canopies

CE CONFORMITY

All doors conform to CE Marketing Regulations.

SITE REQUIREMENTS

To provide a single phase and neutral isolator, fed from a 16amp C rated circuit breaker that is to be made available 1m from the door opening to the drive side of the door.

WARRANTY/GUARANTEE

12 Months or 500,000 cycle's parts only, excluding damage not caused by normal operation.

The company reserves the right to change specification without notice.

