VR High Speed Door

Technical Specifications

HAG

THE DOOR SPECIALISTS

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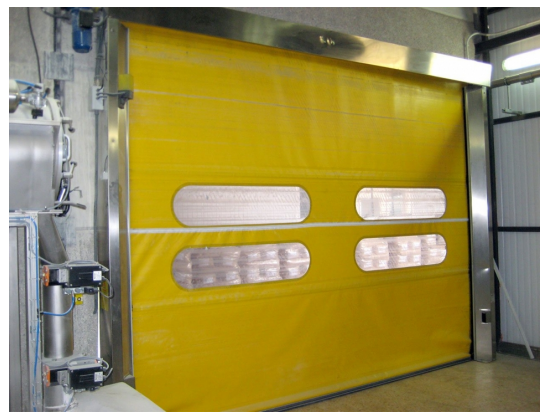
VR High Speed Door



Vertical rolling high speed doors to aid temperature control and reduce air leakage. Fast action 2.5 m/s opening speed via electric operation with comprehensive safety features. Self-repairing guide system. Maximum width 8,000 mm. Ideal for food industries, cold rooms, pharma and electrical sectors.

Product Overview

Description

VR High Speed Door

The VR High Speed Fast Action Door allows quick entry and exit in a safe and controlled manner.

- Suitable for indoor and exterior applications and a wide range of environments.
- Durable and low maintenance: self-repairing curtain system and tested to 1 million cycles
- Available in a 13 RAL colours with full size see-through panels/mesh
- Printable to carry logos, information and warnings.
- Self-repairing guide mechanism, to prevent the curtain from being damaged in the event of mis-alignment.

Application

Indoor and exterior useage

Widely used for food premises, refrigeration rooms, transport logistics premises, vehicle manufactures, conveyor belts, pharmaceuticals industry, paint rooms, waste sorting, car washes, warehouses, ship yards and electrostatic-sensitive environments. Optional stainless steel frame, motor cover and control cabinet for use in hostile environments.

Energy saving

Heat loss in industrial premises costs businesses thousands of pounds a year. Energy saving through the minimising air leakage is extremely important. Heavy weight insulated PVC curtain available.

Maximum speed

Adjustable to the following maximum speeds:

- **Opening:** 2.5 m/s
- **Adjustable:** 0.8 m/s

Maximum dimensions

Clear opening (width x height): 8000 mm x 6500 mm

Wind resistance

Class of wind resistance as measured by BS EN 12424:2000 up to the following maximium dimensions (width x height):

- **Class 1 :** 7000 mm x 5000 mm
- **Class 2 :** 5000 mm x 5000 mm
- **Class 3 :** 3000 mm x 3000 mm

Curtain

The curtain is a toughened PVC that is highly resistant to wearing and tearing. It is reinforced with cross bars connected through high frequency welds to ensure a uniform bond.
It is available in four options for different applications:

- **Standard:** 0.9 Kg/m² weight and 0.9 mm thickness
- **FDA :** for food processing environments
- **Insulated :** 1.3 Kg/m² and 3 mm thickness
- **Anti-static :** 1.7 Kg/m² and 2 mm thickness

Canvas available in 13 colours: RAL 9016 Traffic White | RAL 1013 Oyster White | RAL 5015 Sky Blue | RAL 5010 Gentian Blue | RAL 1003 Signal Yellow | RAL 2004 Pure Orange | RAL 7035 Pearl Grey | RAL 7037 Dusty Grey | RAL 7038 Agate Grey | RAL 6026 Green | RAL 3002 Carmine Red | RAL 9005 Jet Black | RAL 9006 White Aluminium.

Windows

Transparent PVC vision panels, mesh (for ventilation) or mesh with covers (for cold weather)

- **Standard:** one row 850 mm x 300 mm (width x height)
- **Optional:** custom sizes

Door Frame (BS EN 12604:2017)

A reinforced self-bearing galvanised steel frame that supports a steel shaft housing aluminum bearings and drums.
The frame connects to the curtain through traction ribbons and brackets.
All sides are protected by nylon brushes to avoid scratches on canvas when running.

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- **Standard :** galvanized steel
- **Optional:** power coated or stainless steel (AISI 304 / 316)

Roller

- **Standard :** galvanised steel
- **Optional :** stainless steel (AISI 304) including support bearings in composite material

Control cabinet

- **Standard :** powder coated steel to IP55
- **Optional :** stainless steel (AISI 304 / 316) to IP 55
- **Optional :** PVC to IP66

Control system

230 VAC logic board, with phase inverter for precision and speed

Positioning system

- **Standard :** Mechanical limit swithes
- **Optional :** absolute encoder

Motor position

- **Standard :** Lateral to left or right side
- **Optional :** Pendular to left or right side

Drive unit (BS EN 12604:2017)

Electric motor used in conjunction with a heavy duty electric brake and limit switches to allow quick and accurate stopping of the door. The power of the motor will vary dependent on the size and specification of the door.

- 3-phase motor with active brake.
- Ingress protection: IP 54

Emergency opening

In the event of power loss there is emergency operation via:

- **Standard :** hand crank
- **Optional :** counter balance
- **Optional :** Uninteruptable power supply (UPS)

Safety (BS EN 12453:2017)

An integrated self-monitoring safety light grille in the closing zone is fitted as standard : to a maximum monitoring height of 2500 mm. This provides non-contact safety within the closing zone and renders a safety edge redundent. Operation warning lights operated two seconds prior to opening or closing. All speed doors are equipped with a safety device on its leading edge to prevent closing on a person / obstruction and will not make a force on closing greater then 400 N. A photo cell transceiver emits an infrared light beam across the door entrance to detect moving people or objects and will stop the door from closing if the beam is crossed or reverse operation if in closing operation. When obstructed, it will reverse operation to allow safe passage.

- **Standard :** infra-red photocells, curtain anti-jamming sensor, emergency stop button
- **Optional :** light barrier, microwave radar, wireless safety edge

Optional Extras

- Self-correcting curtain safety mechanism
- Vision panels
- Control box with operating buttons
- Bottom of curtain painted diagonal yellow and black
- Opening photocells
- Supports for photocells (aluminium posts)

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- Radar
- Receiver for remote controls
- Two channel remote control
- Four channel remote control
- Amplifier for induction loops
- Induction loops
- Pull cord switch
- Key switch

Product specification may change and it is advisable to consult with HAG technical advisors before specifying or ordering. HAG operates a policy of continuous improvement.