

COIL



PAT 100

High speed Roll Up door with interchangeable sections

The compact structure allows easy installation, reducing the possibility of accidental impact. The flexible mantle with interchangeable sectors allows a simplified maintenance and therefore a low management cost. Available in self-repairing version, for environments with heavy traffic of forklifts; AISI 304 stainless steel, for highly sanitized environments; Pneumatics for classified as explosion proof environments and anti-panic for total safety.



PAT 100 designed for heavy traffic, is a sturdy, reliable roll-up door with a competitive price. A compact framework makes PAT 100 easy to install and reduces the possibility of casual collisions.

The flexible curtain has an interchangeable section construction which allows a simple maintenance and low overhead costs.

Versions

PAT 100 AR anti-crash self-repairing

Equipped with an anti-crash, break through lower section it delivers the most reliable operation for a Hi Speed Roll-up Door.

The self-repairing system allows for an automatic insertion of the curtain in the side tracks in case of accidental impacts without interrupting its operation.

Can be installed in heavier environments both as an internal partition and for external closures.

PAT 100 Inox

Structure in AISI 304 stainless steel is designed to ensure the highest hygiene standards, for applications in the food, chemical and pharmaceutical industries.

PAT 100 Pneumatic

Responds to the need for operation in environments classified as explosion-proof with the use of a special motor with fully pneumatic operation.

PAT 200 Anti-panic

With different construction characteristics, meets the special requirements of safety. In case of power failure, a counter-balance spring inside a jamb unlocks the motor brake and allows the curtain to raise automatically, or by a manual side lever.

This system can be hooked up with central safety logic, e.g. central fire fighting systems. It solves the problem of downtime in the event of accidental impact, drastically reducing maintenance and operating costs.



COIL®

Technical features

Self-supporting structure

Made of sturdy, galvanised steel profile, sized to ensure durability and protection in all situations, even against accidental impacts. Full width drum and motor box cover.

Drive shaft

Made of tubular galvanised steel, diameter 152 mm, flanged, and rotating on side supports with self-aligning ball bearings.

Structure option

Optional construction made of AISI 304 stainless steel or RAL painted galvanised steel.

Motor assembly

Three-phase self-braking assembly running on 220/380 V, 50 Hz power. Complete with safety overload detector. Electromagnetic lock brake. Cam limit-switch assembly.

Opening/closing speed

Up to 1m/sec.

Non-reversible gear-motor

Oil-immersed, worm screw type, directly driven by the drive shaft.

Flexible curtain

Made of Class 2 self-extinguishing double layer laminated polyester fabric, with a clear central section. Door panels are interchangeable for quick, easy replacement in the event of damage. The panels are inter-connected with anodised extruded aluminium profiles. Curtains are available in a selection of colours.

Sliding mechanism

Ultra-quiet curtain sliding mechanism, featuring side track profiles with twin rubber seal guides.

Wind force resisting horizontal bars

Made from extruded anodised aluminium, these bars guarantee perfect closing of the curtain, even in the event of negative pressure or high wind speeds.

Wind resistance

UNI EN12424 Class 0/1

Option "ANTICRASH" Lower section

The optional break-through lower section allows an easy recovery of the curtain in case of accidental crashes. The bottom part of the curtain which may exit the jambs can be inserted again manually.

PAT 100 Anti-Crash has the Anti-crash lower section up to 4000mm width and it's designed for both External and Internal applications.

Additional transparent PVC sectors

The door can be equipped with two additional transparent sectors to the standard one, to improve both the visibility and the illumination of the compartment.

Optional safety bottom bar

Aluminium profile with rubber seal. This item is standard when the Bottom Safety Edge is used.

Emergency opening

In the event of power failure or issues, the door lifting occurs by a brake release and a manual snap wind insert, both at user-height.

Safety photocells

One Pair of transmitter/receiver photocells stops the downward door travel and makes it return to the open position, should any obstacle be detected by the threshold beam.

Anti-fall device

In accordance with the regulations in force, all rapid roll-up doors must have a device that prevents them from collapsing in the event of a fault. PAT 100 is equipped with an "anti-fall" system guaranteed by the irreversible gearbox in direct contact with the rolling shaft.

Optional Bottom Safety Edge

Opto Electronic with signal amplifier stops the door descent and ensures door re-opening when the presence of obstacles in the doorway is detected. NOTE: this is not available with Anti-Crash or Self-Repairing versions.



Optional second photocell

Can be installed height of a high contour

Electrical system

Pre-wired with standard terminal board for connection between the control panel and remote uses (motor, photocells, controls, etc.). System realized in dedicated pipes.

PT Control Box/Board

The Standard control box is fitted with an UP push buttons and an emergency Push/Lock button. For the Plus control box there is a lockable power switch, UP and DOWN push buttons, Emergency Push/Lock button, and an Automatic/Manual selector switch.. The box itself is a sturdy, waterproof casing rated IP 55, in compliance with updated EC/CEI 44/5 and DIN standards), with an IP 65 compliant push-button control panel. The solid-state microprocessor digital electronic instrument panel affords easy programming and access if required; it also ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates any issue by means of dedicated LED lamps. The board also features a safety overload/heat detector.



Optional partial opening function

For automatic door opening stopping at a selected height

Electrical box type PLUS optional

In addition to the standard, manual/automatic selector switch, up/down buttons for human presence control.

Optional Interlock Logic

For interfacing a series of doors.

PAT 100 Pneumatic version for use in ATEX environments



Special features of the pneumatic version:

Motor assembly

A reversible pneumatic motor rated 1.1 kW at 3,000 rpm, plant air supply of 7 bar.

Safety bottom bar

A signal amplifier inside twin rubber chambers interrupts the door descent when hitting an obstacle in the entry and ensures door re-opening.

Pneumatic system

Pre-wired with rapid external connectors for quick, safe connection between the control board and the plant air pressure system.

Control board

Installed inside a robust IP 55 rated casing, the pneumatic system can operate on 6 Atm. plant air.. The system includes a pressure reducer-regulator and a lubricator assembly with a 95% oil mist filter. Operating controls for Open/Close functions, push-buttons and Manual/Automatic selector switch. Timing logic for a program between 0 and 30 secs. Pneumatic control with adjustable pause time for the safety bottom bar.

Emergency opening

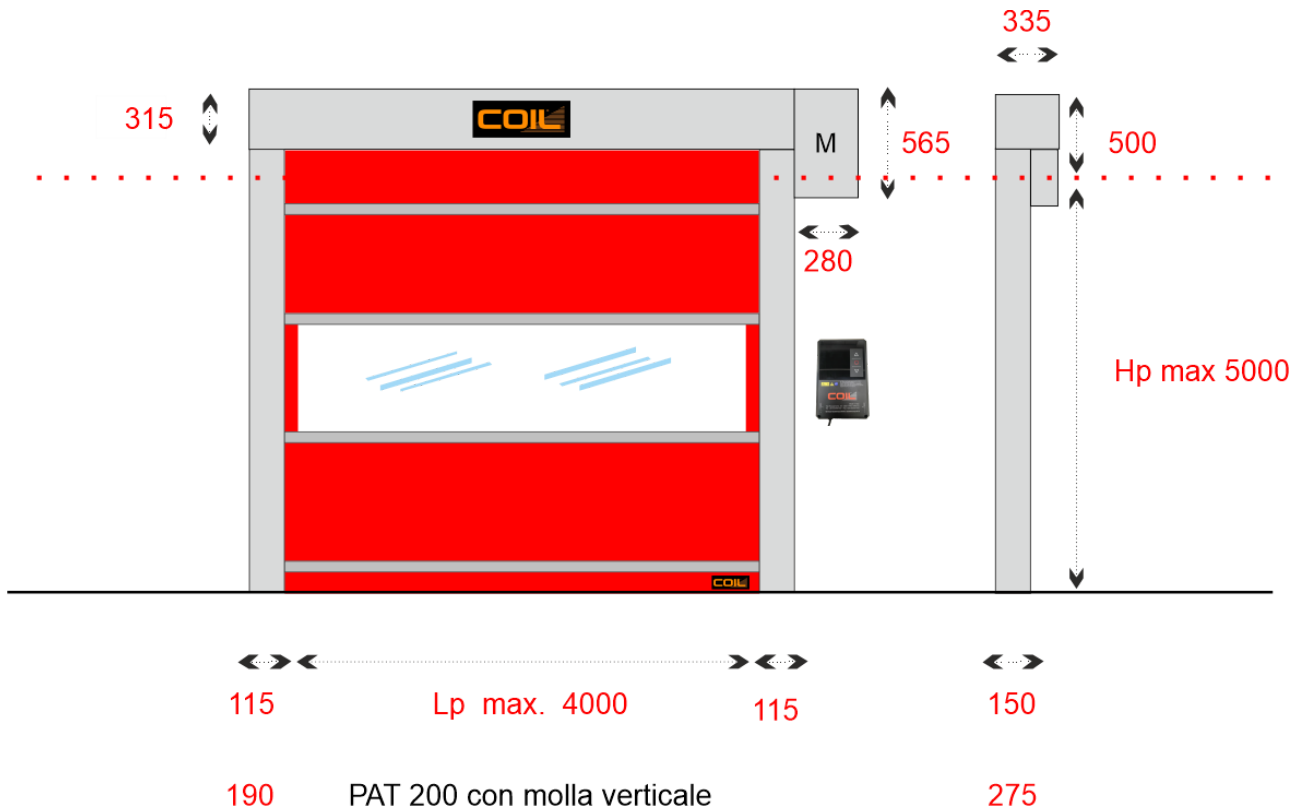
Air tank with 100 litre capacity

Opening speed

approx. 0.5 m/sec.

Accessories

- Pneumatic push-button
- Pneumatic chain
- Pneumatic platform



Warranty

Manufactured with the best electronic materials and components, PAT 100 doors are tested in the most severe applications in industry and commerce and are covered by a standard 12-month warranty.

Certifications

Product in compliance with the product standard UNI EN 13241:2016 Industrial and commercial closures. All COIL doors are supplied with original CE certificate.

CE certification ensures that construction and design of the product complies with requirements of the following safety directives:

- UNI EN 13241:2016 Product standard for Industrial and Commercial Closures
- 305/2011 Construction Products Directive
- 2014/35/EU Low Voltage Directive or LVD
- 2014/30/EU Electromagnetic Compatibility Directive or EMC Directive
- 2006/42/EC Machinery Directive
- UNI EN 12604 Mechanical aspects
- UNI EN 12453 Safety in use of motorized doors
- UNI EN 12424 Wind load resistance



ATEX certifications

All COIL doors are supplied with original CE certificate.

The CE certification guarantees that the design and construction of the product complies with the safety requirements set out in:

- Machinery Directive 2006/42/EC
- Product compliant with ATEX 2014/34/EU

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