STAR 300

Counterbalanced roll-up door with a unique PVC tensioned curtain

Roll-up door with a compact and accurate design, with a counterbalanced and stretching single PVC mantle. Thanks to the patented counter-tensioning system and to the vertical anti-stretch reinforcements, the flexible door leaf is completely transparent with no horizontal staves or reinforcement bars.

Featuring an advanced design and structure, STAR 300 is the top of the line in the high speed roll up door market.

The main feature of STAR 300 is its sleek design which makes it fit for both industrial and commercial areas.
STAR 300 is the lone high speed roll up door with the above features, which can be supplied for net door openings up to 5x5 meters. Despite its large dimensions, STAR 300 features a resistance to winds up to 50 Km/hour. This trait allows the installation of this door not only as inner room applications, but also for external heavy traffic.

STAR 300 has a fully integrated drive construction, including the winding gear with the motor assembly and the control panel, within the door frame. The snug boxed frame is fitted with inspection doors for checking the electro-mechanical drive assembly.

Stucture

Self supporting framework
The framework is built with a sturdy galvanized steel profile, with jambs and top winding drum box cover fitted with flush inspection doors. The smooth frame steel covers have no encumbrance that may prevent the door installation "inside" the entry opening.

Winding Drum
This consists of a 152 mm dia. flanged steel tube rotating on self aligning ball bearings. The boxed drum header has removable inspection access panels.

Framework Options
The framework can be fabricated from AISI 304 Stainless Steel or galvanized steel painted in RAL colors.

Drive motor

Motor assembly
This unit is installed inside the door frame. The self braking motor runs on three phase 220/380 Volt 50 Hz, rated 0.6Kw, and is fitted with safety overload detector.

Opening speed
Up to 1,2 m/sec (upon demand and with a 2-speed drive INVERTER, opening speeds up to 1,6 m/sec).

Non reversible gear speed reducer
Self lubricating worm screw. Cam type stroke end switch. Electro-magnetic lock brake.

Flexible curtain

Flexible curtain
Curtain made with a single-piece Class 2 self-estinguishing clear transparent PVC sheeting. Fitted with Trevira-brand anti-stretch vertical stripes.

Sliding of the curtain
Very quiet operation, thanks to dual rubber seals fitted on to the side tracks.

Bottom reinforcement bar
Made of solid aluminum profile fitted with an effective, durable airtight rubber seal .

Wind pressure resistance
The wind pressure resistance is guaranteed to stand winds to 50 Km/h, thank to a proprietary curtain counterbalancing system.

Safety controls

Emergency opening
A control is fitted at an operator's height on one of the side jambs for automatic curtain lifting, thanks to a counter-balancing coil fitted on to the winding drum.

Safety photocell
A pair of photocell beams stop the curtain descent and will lift the door again if an object in the doorway is detected.

Anti-fall device
A proprietary curtain "no-fall "device is added to the current safety regulation for fast vertical travelling doors which must stop in case of drive failures.The current standard safety system consists of an "irreversible worm gear in oil bath coupled with the drive motor". In case of a brake rupture, it prevents the door from falling. Since the STAR 300 door motor is not installed directly on the winding drum, this extra safety system prevents the curtains from falling in case of a drive damage related to the irreversible worm gear brake.

Optional safety devices

Emergency/panic door opening (COIL Patent)
This device triggers the automatic curtain lifting in case of power outage, or a it can be actuated by means of a manual emergency operation. The exclusive design features of this system allow its integrated in central safety logics, e.g. fire detection systems.

Safety Bar
A dual chamber rubber tube fitted with double pneumatic signal amplifiers inside the bottom rail guarantees a stalling of the descending door and a prompt cycle reversal when hitting a bump.

Additional Photocells
A second set of photocells can be installed at operator's height.

Electric equipment

Impianto elettrico
Precablato con connettori rapidi esterni per un collegamento rapido e sicuro fra il quadro di comando e la rete.

Control panel
Featuring a strong IP55 rated box, complying with current EC/CEI 44/5 DIN. The pushbutton control board is rated IP65 class has an UP travel pushbutton and an EMERGENCY button for mechanical locking. The digital electronic board for microprocessor control allows easy programming and quick replacement in case of breakdown, interfacing with remote controls and time sequencing programs. The panel is complete with overload protectors for mains, motor and remote controls. Mains power is 3-phase 220/380/400/500 VAC 50 Hz (standard 380 VAC 3-phase).

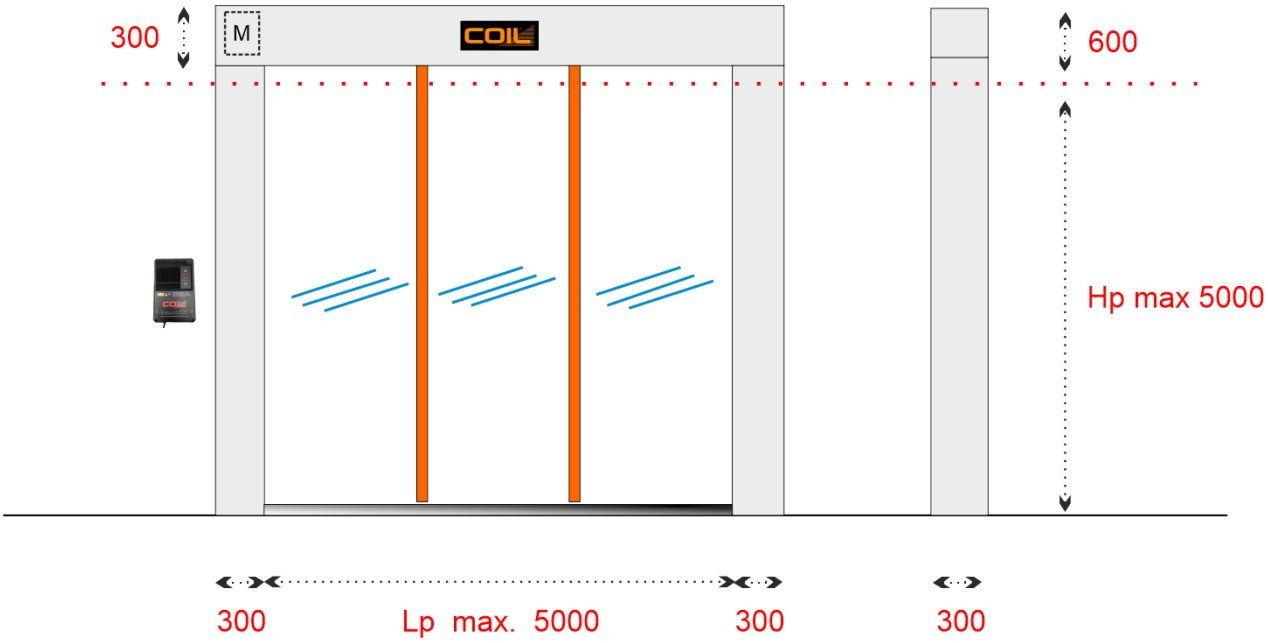
Optional control panel devices

Inner Electric Control Panel
This IP 55 class panel can be installed inside the door frame. The IP 65 push-button board will be installed on one of the door jambs.

Partial opening height
This option allows the curtain to be opened up to a preselected height.

PLUS type control panel
In addition to the standard: Manual/Automatic selector switch, up/down buttons for human presence control.

Interlock Logic
Interface controls for a series of doors.



Warranty

Manufactured with the best electronic materials and components, STAR 300 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

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