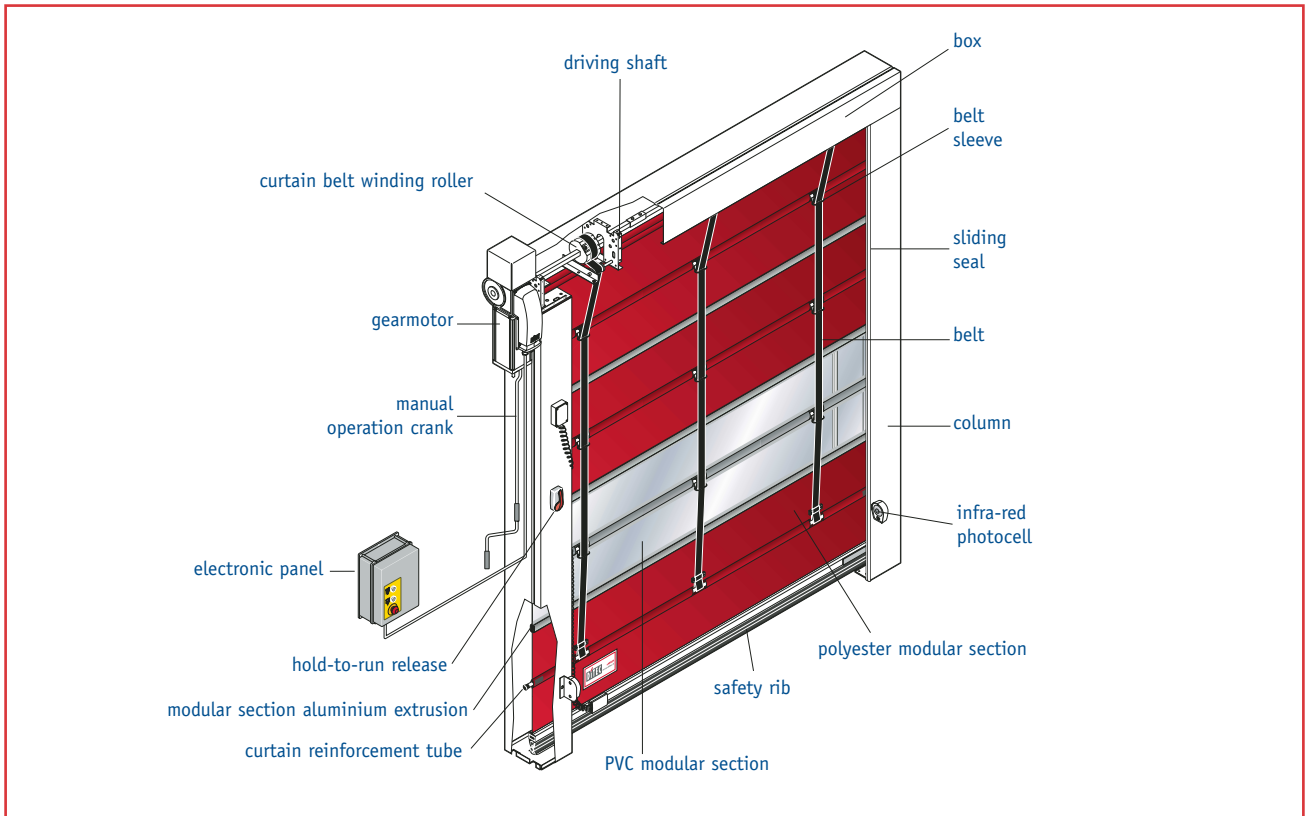




Energy

High-speed fold-up door
with interchangeable-section curtain





▶ Simple, sturdy and safe

Energy, the most up-to-date proposal in the field of high-speed fold-up doors. It maintains all exclusive DITEC features not only as regards the modular-section flexible curtain and rationality of the components parts, but also as regards compliance with applicable standards. Simple, compact and easily adaptable to any context, both industrial and commercial, the Energy high-speed door features the very highest standards of operation and transit in terms of efficiency and safety.

▶ Compact structure

Energy features a very compact supporting structure, safe and aesthetically refined, made of electrically-galvanised steel or AISI 304 fine satin-finish stainless steel. The very reduced overall dimensions are such as to allow installation even where big space problems exist.



▶ Motorisation

The motorisation, which is outside the structure, is complete with emergency re-opening manual device operated by means of a movement rod; it also consists of a complete motor, reduction unit, brake and limit switch assembly.

Suitable for very heavy-duty use, it ensures an opening/closing speed of 0.7 m/s.

The primary component parts of the automation are identical to those already fitted and thoroughly tested on the other DITEC motorisations.

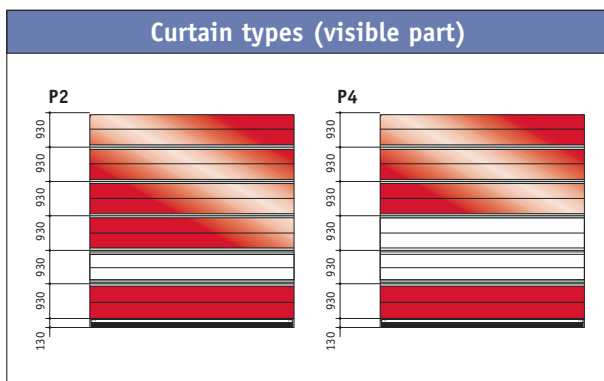


▶ Curtain modularity

The curtain modularity makes it possible to fit coloured and transparent sections according to specific need, or else easily replace any sections damaged by accidental knocks.

Energy uses a flexible self-extinguishing curtain of high quality and strength, partially transparent, which acts as an excellent barrier against heat, cold, dust, humidity and noise (DIN 52210).

Energy also features a release handle which, by disengaging the brake, permits manual curtain re-opening by means of the movement rod operation, in conformity with EN 13241-1 standard (Attachment ZA). Available in a broad range of colours and customisable according to preference, the large full-width window sections make transit through the door even safer and allow light to enter the environment.



▶ A practical solution for every need

Simple, flexible and extremely compact, this is a highly effective solution for industrial and commercial sectors, able to cover working transit dimensions of up to 4.5 x 4.5 m.

▶ Safe and reliable

The safety photocells, the manual emergency opening device, the exclusive patented flexible curtain anti-fall safety device, the original DITEC component parts, already thoroughly tested, together with curtain modularity, make Energy reliable and safe.

- ▶ The safety rib consists in a resistive circuit controlled by a special electronic board. The sensitive edge is made of conductive rubber and features a characteristic resistance value which, because it varies in case of a collision, causes emergency re-opening. The circuit is of the intrinsic safety kind.
- ▶ The rational design of the self-supporting box, positioned on vertical uprights, ensures quick and easy door assembly, making installation just that much simpler and protecting the drive parts housed inside.
- ▶ The IP 55 control panel features microprocessor technology and is able to control the automation and safety devices and to interface with more advanced control logics.

▶ The exclusive safety of the DITEC patent

Energy features the exclusive safety system with "redundant brake".

The special gearmotor setup, besides the standard service brake, also features a **second "safety brake"** which, in case of accidental fault or emergency, engages and stops any fall of the flexible curtain.

An original double safety device patented by DITEC, the result of ongoing technological research and the careful attention given to product standards and safety.

▶ Design, clean lines and technology

The motorisation and sturdy and compact supporting structure are features that make Energy a safe door with rational clean lines, but above all, easy and fast to assemble as well as practical to service and inspect.

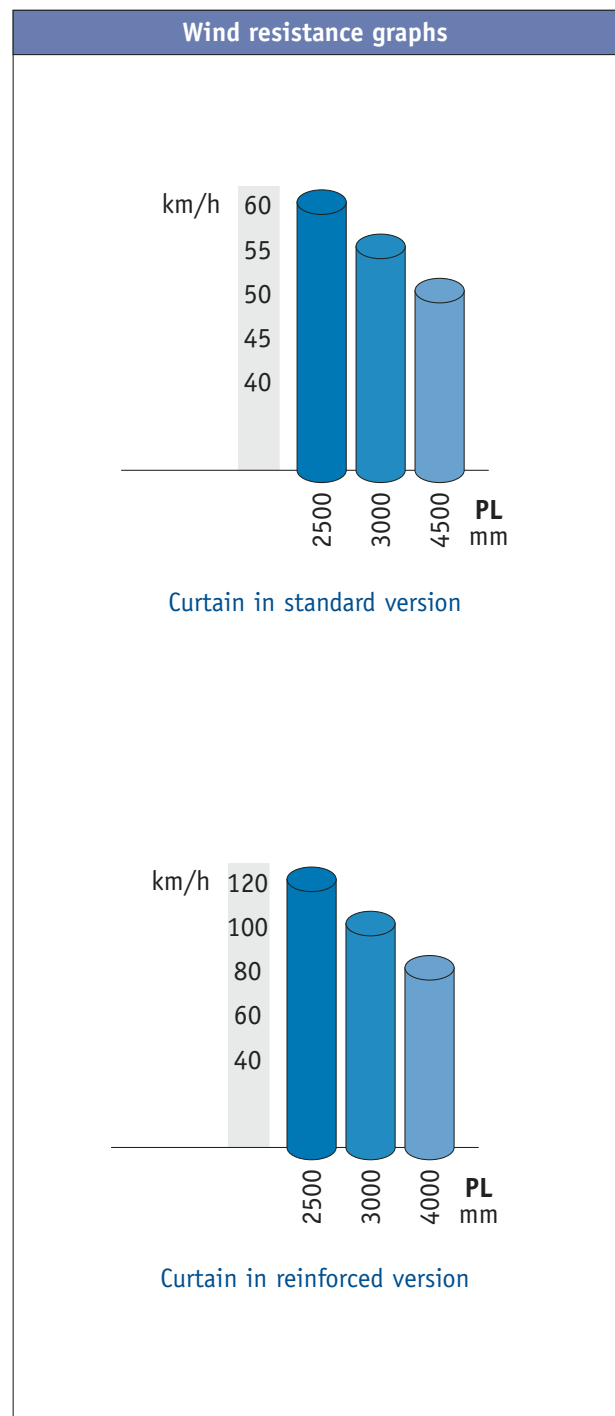
▶ Main technical features

- ▶ Metal electrically-galvanised steel structure (**T1**), or in fine satin-finish AISI 304 STAINLESS steel (**T1Y**), complete with quick wirings and safety photocells in outdoor enclosures.
- ▶ **RAL**, extra charge for oven-baked epoxy coating with smooth finish.
- ▶ Motorisation for very heavy-duty use: 400 V three phase, opening/closing speed 0.7 m/s.
- ▶ **IP 55** electronic panel complete with open-close-emergency stop push-button unit; autotest function.
- ▶ Emergency manual opening device complete with movement rod.
- ▶ Safety rib complete with anodised aluminium extrusion and conductive rubber stop.



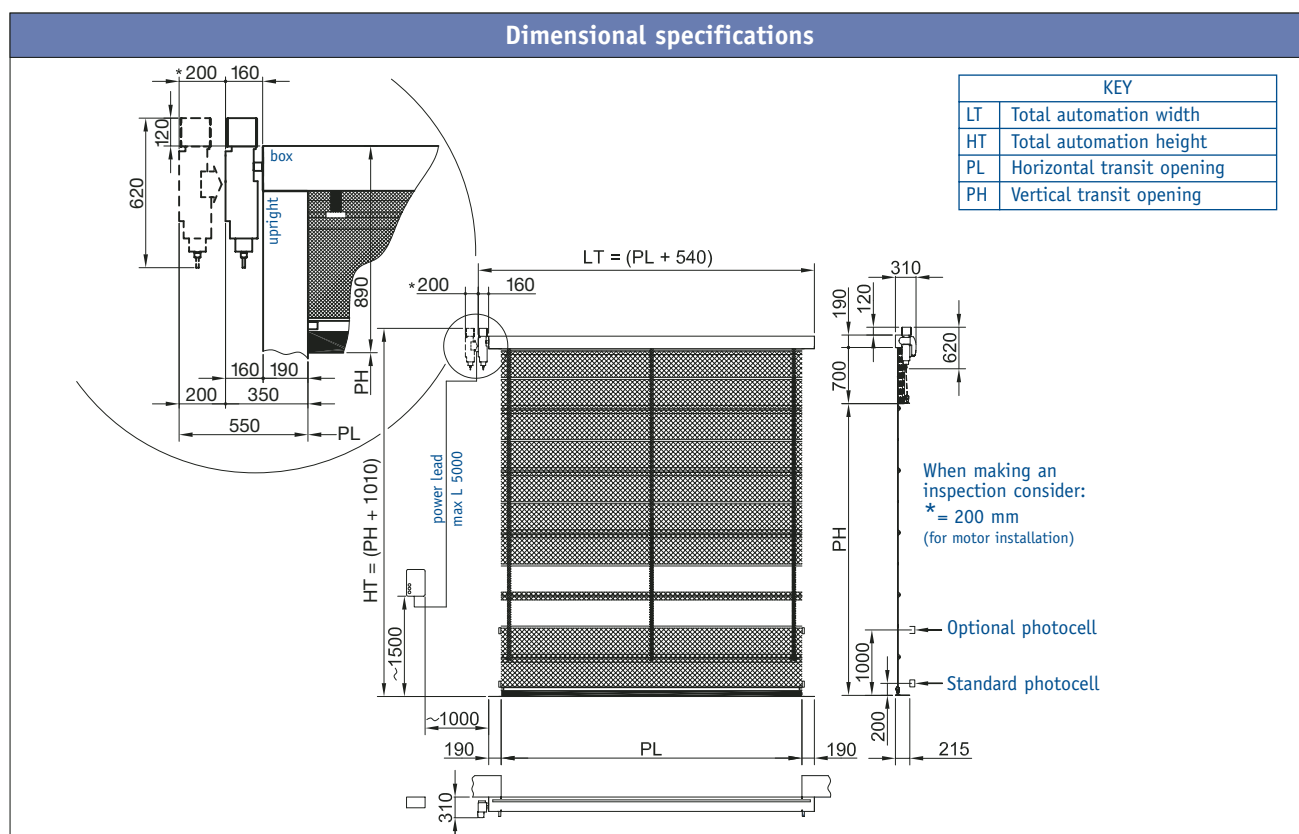
▶ Curtain technical features

- ▶ Anodised aluminium extrusions for containing interchangeable sections and metal stiffening tubular sections in standard or reinforced versions.
- ▶ Maximum resistance to wind pressure: 60 or 120 km/h (see graphs).
- ▶ Flexible curtain in self-extinguishing material with standard centre distances of around 930 mm:
 - **P2** polyester, with 2 large full-width window sections in transparent PVC;
 - **P4** polyester, with 4 large full-width window sections in transparent PVC.



Technical specifications

Energy	High speed fold-up door, model with interchangeable sections
Power supply	400 V three-phase 50/60 Hz
Insulation class	Class 1
Input	2 A
Power	600 W
Reduction ratio	1:28
Drive	Direct from gearmotor with curtain wrapping pipe
Opening/closing speed	0.7 m/s
Transit opening PL x PH	Minimum = PL 1500 x PH 2000, maximum = PL 4500 x PH 4500
Type of curtain	Sections in polyester fabric and transparent PVC, complete with special aluminium extrusions and reinforced with metal tubular sections
Curtain thickness	Polyester fabric = 0.6 mm transparent PVC = 2 mm
Self-extinguishing factor	Polyester fabric = class 2 transparent PVC = DIN 4102
Safety rib	CSA, self-controlled electronic type, complete with special conductive rubber and anodised aluminium extrusion
Inactive flexible curtain protection edge	SR type – simple grey polyester covering pocket, H 170 mm
Manual opening release	Movement rod to be engaged in the bottom part of the gearmotor
DITEC service class	4 heavy duty
Operating temperature	-20°C ÷ +55°C
Curtain operating temperature	-5°C ÷ +50°C
Electronic panel protection degree	IP 55
Ready to accommodate	See installation manual
Electronic control panel	5QE44E



Control and safety systems

- ▶ **RMM** - Microwave radar with function discrimination: vehicle-pedestrian direction of movement
- ▶ **TEL 2** - Remote control for remote RMM radar adjustment
- ▶ **BIX LP2** - Self-learning mini two-channel transmitter
- ▶ **BIX LP2P** - 433 MHz two-channel palm top transmitter
- ▶ **LAB 9CS** - Board detector complete with cable for magnetic loop
- ▶ **SOF safety ribs** - These provide maximum safety conditions during opening and closing of all entrance systems
- ▶ **XEL 22 C4** - Pair of columns with four pre-wired synchronised photocells, height 2.5 m
- ▶ **LAMP H** - Flashing light 24 V
- ▶ **XEL 2** - Pair of infra-red photocells for fitting outdoors, for general use



RMM



TEL 2



BIX LP2



BIX LP2P

Regulations

Use only DITEC accessories and safety devices for automation system installation.

DITEC actuators are CE-marked. They are designed and built in compliance with the safety requirements defined in the Machinery Directive (98/37/EC), Electromagnetic Compatibility Directive (89/336/EEC) and Low-Voltage Directive (73/23/EEC). DITEC S.p.A. reserves the right to make any changes whatsoever in order to upgrade its products.

DITEC products are constantly improved.

As a consequence, technical data as listed in this leaflet are not to be considered binding.

Further information can be found in our Technical Manuals, available on the website: www.ditec.it



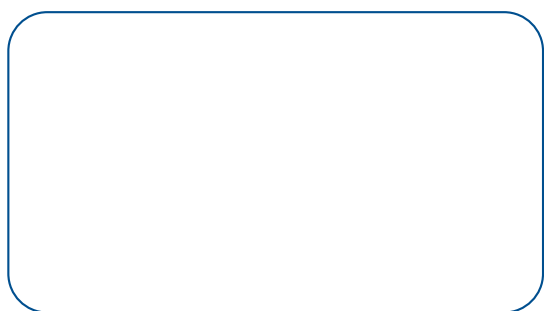
LAB 9CS



SOF



XEL 22 C4



LAMP H



XEL 2



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