E10–ECOVimec electrical Lifting Platform
Technical Data

Lifting system suitable for people with limited locomotory capacity

Approval

- TÜV approval for the safety gear
- TÜV approval for the locks
- In conformity with the European Directive 2014/35 on Low Voltage
- In conformity with the European Directive 2014/30 on Electromagnetic Compatibility
- In conformity with the European Directive 42/2006 Machinery Directive

Installation

The system can be installed either indoors or outdoors. It is a MRL - Machine Roomless system. For outdoor installations, the guards must have a roof.

Working load: the following table indicates the working loads depending on the walls and cabin doors.

Cabin type: E10 ECOVimec	Working load (kg)	HL Heavy Load – LT Low Temperature	HS High Speed
Cabin with walls in Color, Inox series	400	500	500
Cabin with glass walls or 1/2 glass	300	400	400
No. 1 Cabin door + Walls in Color, Steel, Inox (St. Steel) series	300	400	400
No. 1 Cabin door + No. 1 wall in Glass series or 1/2 glass	300	400	400
No. 1 Cabin door + No. 2 walls in Glass series or 1/2 glass	300	400	400
No. 2 Cabin doors + walls in Color, Steel, Inox (St. Steel) series	300	400	400
No. 2 Cabin doors + No. 1 wall in Glass series or 1/2 glass	300	400	400

Travel: 5 stops / 14.6 m

Headroom: 2,450 mm; 2,600 mm if the cabin is supplied with automatic telescopic door.

Transmission: with electric motor and belts.

Speed: Up to 0.15 m/sec, HS version (provided with a counterweight) up to 0.26 m/s for Extra UE markets.

Intermediate stops: max 4 with a minimum distance between the stops of 350 mm (for a min. technical distance of 200 mm, please contact the Engineering Department).

Motor and electric supply
Motor located in the travel shaft with the following specifications:

- Power: 1.5 kW; HL Heavy Load, HS High Speed and LT Low temperature versions 3 kW
- Mains voltage: 230V-mono AC – 50Hz;
- Motor power supply voltage: 230V ± 5%;
- Auxiliary power supply voltage: 24V DC.

Fastenings
At the customer's choice:
- with pre-mounted wall anchoring brackets, or alternatively
- with back wall with mechanical anchors
- with back wall with chemical anchors or with vertical I-beam
- with metal frame.

Guides
Machined T70-1a sections.

Cabin materials and colours
The cabin is supplied as standard with:
- 3 walls (in case of single access to the cabin; 2 walls in case of two adjacent accesses or opposite accesses) in "Grey" type, "Color" series clad steel (or at choice among "Beige", "Blue", "Red" type, "Color" series; "Maple", "Cherry" type, "Wood" series):
- the surface of the platform is in "Rubber" with "grey round studs"
- false ceiling with LED bar

Cabins are always **without plinth**.

The doors and the metal frame are in **Vimec 7040**.

Other materials and colours available:
Walls:

a) One in anti-scratch stainless steel, "Polished linen" type, "Inox" series
b) Two "Glass" series (transparent and smoke-grey)

c) Glass (transparent and smoke-grey) half wall (upper part) mounted on RAL 9018 frame – can be equipped with all available walls (lower part); the lower wall has always the same covering both on inner and outer side of the cabin.

Floors:

a) one Wild Pear type imitation-wood
b) three *Safe-Step* (non-slip): light grey, dark grey, carmine red

Cabin

Composed of 3 physical walls made of the above-mentioned materials; the fourth cabin side, or any side that is free of walls, will be equipped with vertical infrared barrier.
The on-board push-button panel supplied as standard is full-height vertical, in "Grey" type "Color" series, with push-buttons at height compliant with EN81-41 standard and fitted for I-button. An on-board telephone is supplied as standard.
On request in the cabin: only for "Polished linen" type, "Inox" series, the vertical push-button panel has the same finishing as the cabin walls (that is, "Polished linen" type, "Inox" series), horizontal mirror, vertical mirror, LCD display kit in cabin, LCD display kit at floor, telephone dial pad, GSM telephone kit, I-button keys, speech synthesis, gong when floor is reached, handle in brushed aluminium, cable and radio remote push-button panel at floor, access ramp.
Cabin inner height: 2,000 mm

Standard platform* dimensions:

- 1,250x1,000
- 1,400x1,100

(*to obtain the working dimensions, 30 mm for each on-board wall and 10 mm for each infrared barrier should be taken off; in case of on-board automatic telescopic door the overall dimensions to be added to the shaft ranges shall be approximately between 210 and 270 mm).
The platform min. dimension on the guides side is 900 mm.
Special platform sizes are also available on request.

Cabin accesses

- Maximum 6 accesses
- Maximum 2 accesses to the floor

Controls

On board push-button panel with dead-man's controls, size 50x50 mm, with Braille indications and blue backlighting.
Universal manoeuvre allowed thanks to the cabin automatic telescopic door – along with 3 walls (or two telescopic doors and two walls).

Floor push-buttons with universal manoeuvre operation, size 50x50, vandal-proof with Braille indications and red and green backlighting for signalling respectively product in use/occupied and product free/available for use; all the controls work only if the doors are closed.

Electrical safety devices

On-board emergency push-button connected with an audible alarm and pre-set numbers (at the customer's choice), if integrated with a telephone dial pad; thermal circuit breaker on the inverter; landing limit switch; over-run microswitch; pit and headroom under safety microswitches that inhibit the controls in the cabin and on the floor when activated; belt slackening/breaking safety device; auxiliary circuit and supply circuit in separate cables; electric driving locks approved according to the EEC Directive 81/2, with safety microswitch for approved
door release control; on-board anti-blackout descent; on-board emergency light; display of floor reached on the display (if any) on the lifting platform and at the floor; timed cabin lights.

Mechanical safety devices

Two lifting belts with spring system for load division; safety gear for lifts (type approved according to the EEC directives 84/529 and 86/312) that acts on the guides; protection at the floors with landing doors; emergency door release from the outside, with special key; artificial pit of 700 mm under safety microswitch, artificial headroom of 500 mm under safety microswitch.

- O.S.G. Over Speed Governor: speed limiter
- Traction belt slackening control
- O.L.C. Over Load Control: Overload Control and machine blockage in overload conditions

Doors

- Panoramic aluminium with laminated glass,
- motorized panoramic double-hinged with laminated glass,
- partitioned with window
- partitioned panoramic (with shatter-proof glass - available only for sizes 800, 860 and 900).

All doors have a working height of 2,000 mm.

The standard supply features doors with one leaf, manual movement (the retracting mechanical actuators make them semiautomatic therefore with independent closure). For the doors with one leaf the motorization is available on
request. The double leaf door is always motorized.

Automatic telescopic doors

There are automatic telescopic doors for standard size cabins: 800 mm. The 700, 750, 900 mm measures are other available options.
Automatic telescopic **floor** doors always accompany the automatic telescopic **cabin** doors.
There are automatic telescopic doors with **two** and **three leaves** (opening right or left) and **four leaves** (only for frontal accesses compared to the rails, the four automatic telescopic doors assures a central access). The automatic telescopic doors' standard colour is **SIMILINOX**.

Color options:

- Vimec 7040
  Special RAL
- Coated with STAINLESS steel 441 for indoor installations
- Coated with STAINLESS steel 316 for outdoor installations

Other options for the two-door floor door version:

- Anti-fire EI 120
- Fireproof UK
- Fireproof UK coated with stainless steel

When there is an operator in the cabin, the presence of an automatic telescopic door presumably requires a similar automatic telescopic floor door; similar, as in the same version (2 doors) and size.

The maximum depth of the platform, on which the automatic telescopic door can be installed, is 1,250 mm.

It is possible to install two automatic telescopic doors, with opposite or adjacent accesses, on the same machine.

For **800** mm doors with **two** shutters, **on the side** compared to the rails, a platform wide at least 1,030 mm is required.
For **900** mm doors with **two** shutters, **on the side** compared to the rails, a platform wide at least 1,170 mm is required.
For **800** mm doors with **three** shutters, **on the side** compared to the rails, a platform wide at least 920 mm is required.
For **900** mm doors with **three** shutters, **on the side** compared to the rails, a platform wide at least 1,030 mm is required.

The 1,250x1,000 nominal platform has an actual size of 1,250 mm and 1,000 mm in case of no cabin door. When cabin doors are present, regardless of the installation side, the nominal size of the platform is unchanged, but the dimension of the platform supplied will be 1,300x1,030.

The 1,400x1,100 nominal platform has an actual size of 1,400 mm and 1,100 in case of no cabin door. When cabin doors are present, regardless of the installation side, the nominal size of the platform is unchanged, but the dimension of the platform supplied will be 1,440x1,170. Installing telescopic doors in unprotected outdoor areas is not recommended because they are not hermetic.

Guard
When there is a metal frame, the roof for indoor or outdoor use can be ordered on request (mandatory for outdoor installations).

Pit
120 mm for masonry shaft and aluminium guards
140 mm for metal frame

State of supply
In components to be assembled.
If there is a metal frame there will be sectional steel profiles with laminated glass or laminated sheet plate blind panels, for structure infilling.

At the customer's charge
The customer must pay for and make all necessary changes to the shaft before delivery but to our design.
In addition, the customer is to pay the expenses related to the construction of the dedicated electric line to our panel, with conductors of minimum cross-section 2.5 mm^2, which can be disconnected with a residual current circuit breaker of nominal capacity 16A and sensitivity 0.03A and earthed with a cable of 2.5 mm^2, to supply the machine.
Again, the customer is to pay for the construction of a separate electric line to the one described, with conductors of minimum cross-section 2.5 mm^2, which can be disconnected with a residual current circuit breaker of nominal capacity 16A and sensitivity 0.03A and earthed with a cable of 2.5 mm^2. This line must have one or more 16A service power sockets for maintenance, of which at least one located in the artificial pit of the travel shaft.

Lastly, it is at customer's care and charge the setting up of a telephone line through a special cable next to the electric panel.
The responsibility for the strength of the walls, terraces, floors and plinths is entirely to the charge of the customer.

N.B. The data given herein are indicative and not binding. Vimec S.r.l. reserves the right to make any changes that it may consider appropriate at any time and with no obligation to give any advance notice thereof.

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