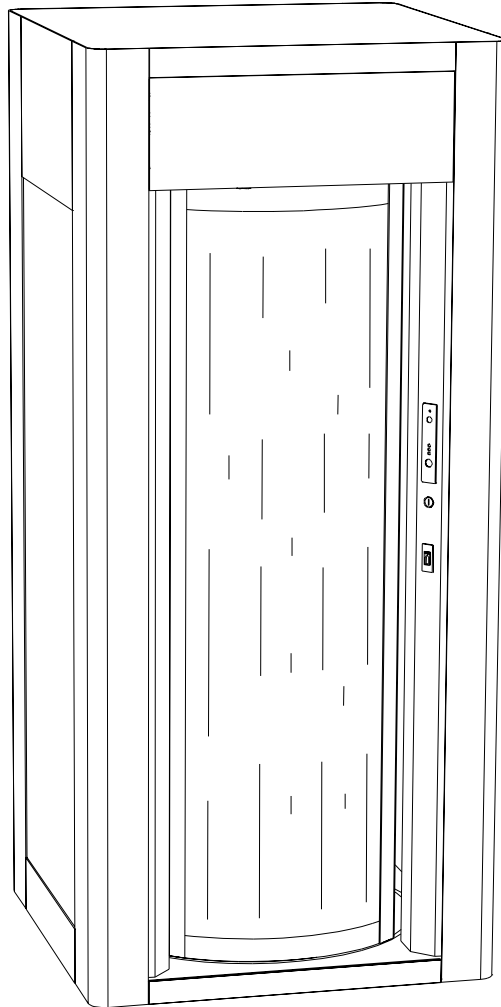


ELE 2000



USE HANDBOOK

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Saima Sicurezza S.p.A. is a company belonging to the Saima Group born in 1977. Since 1997 the company has obtained the UNI EN ISO 9001 certification.

CONFORMITY DECLARATION : Saima Sicurezza S.p.A. declares that the booth mod. **ELE 2000**, identifiable by the data at the foot of the page, is in accordance with the following laws: UNI 8612 - ECC 89/106 - ECC 89/336 - ECC 73/23 as far as they can be enforced.

Thank you for trusting in our company and buying our products. We would like to remind you that this handbook is an integral part of our ANTI-ROBBERY BOOTH and for this reason it is necessary to follow its instructions. If the system has not been set, please examine the chapter about "System installation".

This handbook contains important information about safety and some information about the maintenance for users.

No part of this handbook can be reproduced in any form, electronic or mechanic system, without SAIMA SICUREZZA S.p.A. written authorization. Drawings and descriptions of this handbook are subject to changes or modifications without previous notice.

Model

Working specifications

Serial number

Saima Sicurezza S.p.A. Production Division - Indicatore, AREZZO.

Date

Responsible for the testing

TABLE OF CONTENTS.

Introduction.

- Warranty.	page 4
- Destination.	page 4
- Identification.	page 4
- General safety regulations.	page 5
- Safety devices.	page 5
- Maintenance.	page 5

Functions and use.

- Technical description.	page 6
- Serial control console.	page 7
- Digital console (optional).	page 9
- Entrance/Exit procedure.	page 13

System installation.

- Preliminary checks.	page 15
- Unpacking.	page 16
- Disturbances sources.	page 17
- Positioning the booth.	page 18
- Lateral frames application.	page 19
- Wiring.	page 20
- Testing.	page 21
- Deactivation and setting aside.	page 21

Maintenance.

- System handbook.	page 22
- Maintenance card.	page 23
- Equipment on request.	page 24
- Labels.	page 25
- Working anomalies.	page 26

Graphic representations

- Figure 1A Serial control console.	page 28
- Figure 1B Digital control console.	page 29
- Figures 2-3-4-5 Views of the booth - push-button panels.	page 30
- Figure 6 Technical specifications.	page 31
- Figures 7A-7B-8 Booth movements - stopping feet.	page 32
- Figure 9 Embedded installation.	page 33
- Figures 10-13 Lateral frames application - examples of installation.	page 34
- Figure 11 Wiring.	page 35
- Figure 12 Booth pre-starting.	page 36

INTRODUCTION

This handbook contains the maintenance instructions in order to get the best results and to achieve the highest efficiency levels from your booth. Please, read these recommendations carefully, before using the booth. Information about repairs, adjustments and settings different from those which have been set up are described in the technical handbooks. You can request them at Saima Sicurezza Spa directly.

**Keep this handbook in a safe place
for further consultation**

Warranty

The booth is warranted for a period of one year from the testing date.

We are at your disposal for any further information you may need.

Please, remember that the warranty is void if you do not follow the directions here stated.

Any manufacturer's liability is void if the user makes changes without the manufacturer's previous written authorisation.

Saima Sicurezza S.p.A. reserves the right to do all the necessary changes to improve the booth.

Destination

The booth must be used as a safety door equipped with entrance control. Restrictions:

The booth must be only used for the purpose it has been expressly conceived, taking into account the restrictions shown inside the handbook. Any other use must be considered inappropriate and wrong.

The manufacturer cannot be considered responsible for any damage caused by inappropriate, wrong or irrational use of the booth.

Identification

The metal plate, shown here, contains all the information about the identification and operating system.

It is placed on the booth's roof close to the internal inspection door.

**Together with a possible maintenance request,
it is necessary to give the serial number written
on the plate.**

SAIMA		CE	
SICUREZZA S.P.A. INDICATORE (AR) ITALIA Tel. 0575-9291			
SERIAL NUMBER	<input type="text"/>	VOLTAGE (V)	<input type="text"/>
YEAR	<input type="text"/>	FREQUENCY (Hz)	<input type="text"/>
MODEL	<input type="text"/>	POWER (Kw)	<input type="text"/>
WEIGHT (Kg)	<input type="text"/>	MAX FORCE (N)	<input type="text"/>

General safety regulations

Only special trained and authorised staff can carry out the maintenance service. The manufacturer is not responsible for any tampering or modification of the system, which has not been previously authorised. The removal or tampering of safety devices involves the breaking of European regulations concerning safety.

We exhort you to use only original spare parts. Our machines are designed to accept original spare parts only. Skilled staff must carry out their settings, respecting the instructions hereby. Please, be sure that when the system operates, all safety conditions are respected. If you notice any irregularities, please stop the system immediately and call SAIMA SICUREZZA S.p.A. maintenance service.

Only skilled staff must service the electric system, even if it is of small entity.

Safety devices

- Manual release of the system in case of total energy absence;
- Internal button of aid call;
- Inaccessible mechanic motion;
- Metal plates showing the correct procedures to be followed;
- Sensitive devices to open in case it is intercepted during the closing phase;
- Electronic couple governor to keep the noticeable thrust on the door;
- Electric isolation;
- Safety transformer;
- Peripheral devices working by SELV.

We remind all of our customers to follow the norms in force, first of all the system's grounding and safety devices.

Maintenance

This door has been made in compliance with the regulations in force and taking into account the European Community Laws.

We exhort you to verify the system every six-months. Only qualified staff must inspect the system. During the scheduled maintenance, it is necessary to carry out the procedures mentioned in the system's handbook (see Maintenance - System's handbook).

FUNCTIONS AND USE

Technical description

The anti-robbery booth is equipped with a special system that allows to detect the presence of metal objects and/or people (anti-hostage function) inside the transit area. Upon request, the booth can be supplied with Biometric systems that recognizes people. Information on dimension is shown in figure 6.

N.B. The object detection system concerns only the internal area. So, it is possible to anchor the booth to lateral structures (extension jamb, frames, etc.) without compromising the system.

The anti-robbery monobloc is made of steel sheet, strengthened tubular bars of considerable thickness. The varnishing is made with special materials, which makes the end item weather and shock-proof.

The transit area parts are made with special resistance materials, as well as the door's supports where the bent bullet-proof glass houses.

The Metal Detector is placed inside the lateral walls of the booth's entrance door. The Metal Detector's control board and logic management are placed in the upper part of the booth and it is easy to inspect them.

A plastic cover repairs the upper part from the dust. The door's movement is electromechanical and it is controlled by direct current motors. The motor's underfeeding guarantees a further accident prevention protection, in addition to the protection given of the photo-cells protecting the doors.

The booth is also equipped with:

- an intercom unit allows conversation between the control console and the outside;
- voice synthesis with one or more messages (on request);
- push-button panels with signalling leds (colours: red, yellow, green), intercom call button, microphone, door opening button;
- stop button and intercom emergency call placed inside the booth;
- roof lamp formed by flash lights, loudspeaker, intercom button (on request);
- mechanic key that turns the booth on and closes it at night.

If the mechanical key is not used there is a possibility that the doors will be unlocked and can be opened manually should the batteries run down.

Serial control console

The serial control console is equipped with the main functions usually used to program the booth's operating modalities.

The serial console can be used as single and secondary console combined with the digital console.

The functions can be enabled, disabled with a key: a signalling led will show the condition.

SEE FIGURE 1A SERIAL CONTROL CONSOLE

Serial console working

ON/OFF key to enable the console

ON- Console enabled

OFF-console disabled

Night Function

By pressing this button it is possible to enable the entrance to cleaning staff, maintenance staff, etc. with the mechanic lock or with an impulse contact (lock with spring contact, electronic key, badge reader, etc.).

Led on= function enabled

Led off= standard function

Check

This function checks the metal detector's permanent disconnection detector, weight and biometric checks.

Led on= check enabled

Led off= check disabled

Reset

This key allows to cancel one of the alarms in progress, which are signalled by the special acoustic signal.

Led on= reset for one passage

Led off= standard working

Emergency

It opens the two doors simultaneously.

Led on= simultaneous opening of the doors

Led off= standard working

Block

It turns the booth off. It is not possible to enter or to exit.

Led on= block of the doors

Led off= standard working

Booth

It controls up to three booths using the same console. By pressing this key, it is possible to select a booth and in case of alarm, it will move automatically.

Automatic/Manual

By pressing this button, it is possible to control the manual and automatic phases signalled by the special two-colour led.

Green led= unidirectional entrance

Yellow led= unidirectional exit

Yellow/Green led = bidirectional

External door

It allows to open the external door manually.

Green led= external door open

Red led= external door closed

Internal door

It allows to open the internal door manually.

Green led= internal door open

Red led = internal door closed

Intercom

Should there be an intercom call from a booth, a bell in the console goes on. Lifting the intercom's handset, the console connects with the booth from where the call came from.

When the handset is raised, and there are more booths on line, press the key 7 (booth1, booth2, booth3) to connect with the desired booth.

Resetting the main panel

For a complete Reset of the main panel press the buttons 8 and 11 together until all the console's lights go off.

Releasing the booth's buttons it will automatically reset.

While Resetting do not do other operations on the console or the booth.

Digital control console with display
(optional)

SEE FIGURE 1B DIGITAL CONTROL CONSOLE

Main menu

The main menu is what the user sees on the display during standard running of the system. It is divided in two parts: on the left, there are the commands that can be sent to the booth, on the right it summarises the systems condition.

1st Scheme on display

1 Starting ●	<> B1
2 Metal ○	
3 Weight ●	day/month/year
4 Bio ○	↓ hh:mm

2nd Scheme on display

5 Bidirectional ●	<> B1
6 Block ○	
7 Emergency door ●	
8 Semiaut. ○	↑↓ hh:mm

- **The number (0-8) written before the function shows the associated key.**
- **The beeds that are displayed after the functions show if they are activated “●” or not “○”.**
- **It is possible to change the parameters by pressing the related key;**
- **The pages can be scrolled down with the cursor control keys ↑↓.**

The following functions are found

- **Turning on function (1):** it permits to turn on or off the booth;
- **Metal Detector check (2):** it allows to locate the passage of metallic objects inside the booth;
- **Weight check function (3):** it allows the passage of one person only;
- **Bio function (4):** it allows the passage of a person, through digital finger print recognition (if requested).
- **Bi-directional function (5):** no led is associated to it, because by pressing the key number five, the function changes at every pressure and becomes respectively BIDIRECTIONAL transit in entrance and exit. EXIT: transit in exit only; ENTRANCE: transit in entrance only; MANUAL: transit in exit and entrance, the booth's commands are given only by the operator in the console;
- **Block function (6):** it allows the block of the passage in every door condition.
- **Emergency Door function (7) (if there is an emergency exit on the booth's side):** it allows the opening of the emergency door.
- **Semiautomatic function (8):** automatic opening of the first door (in entrance and exit), opening of the second door by the operator in the console.

On the display's right part, there is the system's information which is subdivided as follows:

First line:

The symbol “<” and “>” refers to the door's conditions. If they appear as in the figure, the doors are closed. If they are reversed, they show that the doors are open. Between the symbols “<” and “>” there is an empty space. When a person enters in the booth, this display space will show the *stylised* drawing of a person. The letter "B" followed by a number shows the selected booth (in case of many booths).

Second line: Empty

Third line: It shows the date

Fourth line: It shows the cursor control keys of the menus and the time. Up arrow: previous scheme. Down arrow: following scheme.

Keyboard

On the keyboard there are both alphanumeric and symbolic keys. Some keys have pre-fixed functions; some others have different functions on the basis of the context in which they are used (ref. fig. 1B)

- ② • **B key:** commands and information on the display refer to the selected booth.
- ⑧ • **“*” key** on red background: it turns on the EMERGENCY function; to quit this condition, press the ENTER key. (Ref. Chapter “ALARMS”).
- ⑨ • **key showing the "danger" symbol** on yellow background: it releases the closed door; to restore it, it is necessary to press the ENTER key (Ref. Chapter “ALARMS”).
- ⑤ • **“ESC”, “OK” and “F1”** keys to execute the *“SETUP”* operation.
- ⑤ • **F2 key** puts on the "EMERGENCY FOR ALL BOOTHS" (it is enabled only if there are more booths). To quit this condition, press the ENTER key.
- ⑥ • **the “ENTER” key** is used to end an alarm in progress. (Ref. Chapter "ALARMS").

Alarms

Once there is a booth alarm, the display shows what kind of alarm is in progress.

During an alarm, by pressing the ESC key, it is possible to go back to the main menu without turning off the alarm and the indication on the display. By pressing the ENTER key the booth's functions are restored.

- **Release:** shows that the booth's inside release button or from the console has been pressed.
- **Emergency:** shows the “simultaneous opening of the two doors”.
- **Metal Detector alarm:** shows that a metal detector alarm is in progress. By pressing the ENTER key this alarm allows the reset for one passage. Once this passage has occurred, the "Metal Detector check" goes on again automatically.
- **Object in the booth:** shows an object that has been deposited in the booth. By pressing the ENTER key this alarm allows the reset for one passage. Once this passage has occurred, the "Object check" goes on again automatically.
- **Exceeding weight:** shows that the weight inside the booth is higher than the fixed threshold or that the anti-hostage device has detected more than one person inside the booth. By pressing the ENTER key this alarm allows the reset for one passage. Once this passage is ended, the "Weight check" goes on again automatically.
- **No net:** shows that the system is working with batteries. This alarm does not allow the reset. By pressing

ESC, the right side of the display shows the writing: “No net”.

User Menu

To enter inside the *user menu*, press the **F1** key.

Enter the password (STD password = 999999), ESC to quit the menu.

A list of functions will appear on the console display; these functions can be modified according to the necessities. With the arithmetic keys "+" and "-", it is possible to increase or decrease the numerical values.

With the ENTER key it is possible to enable or disable the functions with the symbols "●" - "○" and, when the symbol "↵" appears, it is possible to go in a sub menu.

Display	Object weight Gr.	8000	(+ -)	This function is enabled with the specific weight card only.
	Exceeding weight: Kg	120		
	→ Buzzer	●	(+ -)	This function in enabled with the specific weight card only
	Date – time	↵		
	Summer time	●	(↵)	(console keys bell)
	Password change	↵	(↵)	

DATE/TIME

To change the parameters to the function **Date/Time**, it is necessary to select the function with the keys "↑" and "↓" and to press the **ENTER** key.

Display	Time	→11 – 54	OK = to save the parameters
	Date	5 – 1 – 99	ESC = to come back to the previous menu without saving the parameters
	Tuesday	True Solar Time	↓ = to shift inside the menu
	OK = save	↓ ESC	Numeric keys= to set the desired value

SUMMER TIME

To change **summer time/true solar time** (EU automatic updating)

- select the parameter SUMMER TIME by with the **keys** ↑↓;
- press the **ENTER** key to disable the function (the symbol near the function will change from ● to ○).

LANGUAGE SELECTION

- Press **F1**- enter the numbers **999999** on the password - press **Enter** - select the desired language scrolling down with the menu keys up to **7** - press **Enter** once chosen
- Press **ESC**.

Display	ENGLISH		OK = to save the parameters
	OK = save	↓ ESC	ESC = to come back to the previous menu without saving the parameters
			↓ = to shift inside the menu
			Numeric keys = to set the desired parameter

Protection of the menu

To change the parameters in this function it is necessary to select it with the keys “↑” and “↓” and to press the **ENTER** key.

The display will show the following menu:

<i>Display</i>	→ Starting	o
	Metal Detector check	o
	Weight check	o
	Bio check	o
	Autom. Manual	o
	Block	o
	Emergency door	o
	Semiautomatic	o
	Emergency	o
	External button	o
	Continuous rotation	o
	OK = save	↑ ↓ ESC

OK = to save the parameters
ESC = to go back to the previous menu without saving the parameters
 ↑ ↓ = to shift the cursor for the selection of the desired function inside the menu

WARNING! The selected functions can be enabled or disabled even if the console operating key is OFF.

The functions "External and Continuous rotation" are operative only for the booths mod. ROTANT.

Password change

To change the parameters in the "Password change" function, it is necessary to select it with the keys “↑” and “↓” and to press the **ENTER** key.

Enter the new password and confirm it.

Intercom

In case there is a call from a booth, the bell in the console goes on. Lifting the handset, the console connects via intercom with the booth from which the call came from.

When the handset is raised, and if there is more than one booth on line, the right part of the display will show the writing: "Intercom", and below: "B<number>". By selecting the booth's key to communicate the writing : “connected <number>” appears.

Entrance/Exit procedure

Turning on the booth

The booth can be turned on with the control console keys.

Use the mechanic or electric keys for the first entrance and the mechanic key for the last exit (fig. 2). When the booth is turned on, the door's first opening cycle will be executed automatically; it has to be used for the entrance of the first person. For safety reasons, also the first passage is protected by the metal detector.

Standard transit

After turning on the booth, make sure that the console is programmed for the standard transit; it must occur as follows:

- 1) Press the call external button (detail n°6 fig. 2), which is placed beside the transit area and wait until the door opens.
- 2) Enter in the booth.
- 3) Wait for the external door to close and the internal one to open.
- 4) Exit from the booth.

Metal Detector alarm (if there is).

Every time somebody tries to transit through the booth with a metal object comparable in weight and dimensions to a weapon, the metal detector's allarm goes off. The alarm condition will activate a special recorded message contained in the voice synthesis that will invite the user to exit and deposit the metal objects in a suitable box.

The first door will stay open, so that the user entering can exit. In this way, it will close and check automatically the transit area, in order to verify the presence of metal objects left inside it.

If the check will be negative, the monobloc resets automatically and it will be ready for a new transit. Otherwise, the external door will continue to open and close, until the object deposited inside will be removed.

Transit with metal objects (if there is the Metal Detector).

To allow the entrance in the protected area to a person with metal objects or weapons (for example, security guards, escorts for valuables) it is necessary to follow this procedure:

1. If entering the user has set the metal detector's allarm off, the operator can turn off the metal detector with the console, allowing the entrance;
2. If the person, before entering, will ask entrance permission through the intercom, using the console the operator can turn off the metal detector.

In both cases, the operator has to only switch the metal detector in the ON position.

Door closed to the public.

In order to prevent the entrance to the public, during fixed times, it is necessary to turn off the opening button of the external door using the "Bi-directional/unidirectional exit" command on the console. In this case, the user has to ask for the entrance through the intercom.

Anti-hostage alarm

The weight check system is set up at 120 Kg of max. threshold by the head office directly (except for customer's specific request). If there is a weight greater than the above-mentioned value, the exit procedure will be interrupted and the external door will remain open.

In the meantime, a voice synthesis message will invite to contact the operator through the intercom.

(If there is the digital console, the display will show the writing "ANTI-HOSTAGE ALARM" with the simultaneous turning on of an acoustic sound).

Procedure for the transit of two people.

If two people have to transit simultaneously, (or, in any case, with the "Anti-hostage" alarm on) by pressing the Reset key (Enter key for the digital console) the system will end the entrance procedure.

Opening doors in emergency.

The Emergency command on the console allows the simultaneous opening of the doors.

If there is no power supply or if the booth breaks down, it is necessary to use the **manual emergency**. In this case, open the door from inside the bank (over the transit area), switch off the power supply using the **ON/OFF** switch placed on the electronic logic's rack.

If there is a person inside the booth, and there is no power supply, it is possible to open the external door manually.

N.B.: It is important to do this operation after having turned off the booth's main switch.

Automatic function in emergency.

Should there be a power supply failure (220v) the batteries will start working automatically and will enable the functions for at least 30 more minutes. After such time the doors will not work. By pushing the on switch on the main panel it is possible to use an extra energy reserve that will allow some extra door openings.

N.B.: The use of the main panel switch must be used only for emergencies since it can ruin the batteries and will need to be substituted if they do not re-charge.

Stop button inside the booth. (detail n°9 fig. 2).

If the stop function is turned on when the doors are moving, it will allow only to open the doors manually.

If the stop function is turned on when both doors are closed, the external door's brake releases, and the movements of the doors are blocked.

To restore the booth's standard operation, it is necessary to reset it.

Passage authorization.

Should undesired people be recognized or if there is the necessity to interrupt the entrance's passage, it can be done by switching to the OFF position the command on the console (fig. 1A - fig. 1B).

To restore the normal passage switch to the ON position.

Booth does not function properly.

Should there be problems with the booth's functions verify that the controls on the console are switched to NORMAL TRANSIT before you do other checks. Unstable current or a long period without power supply can cause problems to the booth, simulating for example, the presence of an object.

To restore the booth to normal working condition, switch OFF the booth on the main console, wait a few seconds and then turn it on again.

In case of a blackout or if the batteries have run out it is possible to open the doors as described in the **emergency procedure**.

Should these malfunctions persist or should problems arise different from those described, please call our maintenance service:

TEL (+39) 0575 9291 - 987116

FAX (+39) 0575 929238

SYSTEM INSTALLATION

Preliminary checks

Before installing the booth, it is necessary to check the following very carefully, in order to avoid possible failures.

N.B. Possible floor defects can cause an incorrect working of the system.

- Make sure that the booth can be carried in a vertical position to the desired place.

N.B.: When moving, avoid stresses on the Metal Detector's columns.

The booth cannot be reduced in dimensions, but it can be carried in an horizontal position for a short way, then restore it to its vertical position.

N.B.: Moving the booth can cause mechanical damages. We suggest that only skilled and equipped staff do the job.

Inform Saima Sicurezza when this operation is necessary.

- Verify that the ceiling of the location area is, at least, 280 cm high (every booth is 240 cm high). This will guarantee the entry into the upper part of the system and to carry out the assembly and the maintenance operations of the booth.

- Verify that disturbance sources do not cause metal detector failures (see the paragraph about "Metal Detector disturbance sources" further on in this chapter).

N.B: For the Metal Detector to work correctly, it is important that the surrounding area remains the same and does not change in time.

Unpacking

After the unpacking operations, make sure that all the booth's components are complete. See if there are any visibly damaged parts. In case of doubts, contact Saima Sicurezza S.p.A. directly.

PACKING PARTS (SUCH AS PLASTIC BAGS, FOAM POLYSTYRENE, NAILS, SCREWS, WOOD ETC.) MUST BE KEPT AWAY FROM CHILDREN'S REACH, AS THEY CAN BE EXTREMELY DANGEROUS.



Collect the above mentioned materials in special dumps.



Once the unpacking has ended, before assembling the booth, keep the components in a clean and dry place.

Only skilled staff, which has been authorised by Saima Sicurezza S.p.A., can carry out the installation and the assembly of the booth. The installation and assembly handbooks must be followed.

After assembling, the technician, and the customer, will test the booth and fill in the testing form. The customer will sign the form if the test is positive.

A qualified technician must do the testing as well as all the adjustments and he must have the booth in running order.

M.D. disturbance sources

The metal detector is a device sensitive to electro-magnetic parasitic disturbances. In order to achieve the highest performances, especially at the highest sensitivity levels, it is necessary to take some precautions when you use the structures in which it is placed.

There are two different kinds of interference sources:

- 1) mechanical disturbances
- 2) electric disturbances.

Mechanic disturbances

The metal detector has an electro-magnetic field generator that is able to induce an electromotive force in its receiving section. If the action of passing through metal objects modifies this force, the appliance will go on. The flux of magnetic field runs partly over the space surrounding the probe, too.

Possible adjacent metal structures can introduce field absorptions, which can be due to:

- A- The moving of considerable metal masses or masses placed especially close to the aerials.
- B- Fixed metal structures that are placed near the Metal Detector can be replaced by panels made of formica, bakelite, polycarbonate or other insulating materials.
- C- Doors: if the doors are made with metal materials, they must be placed at a distance of at least 60 cm. The scroll formed by the door's metal section bars must be insulated. If the doors are made of insulating material (blindovis with wood, etc.) the mentioned precautions are not necessary.
- D- Electro-magnetic scrolls formed by structural components (metal frames, glass doors, metal ceiling strips, etc.) that because of movements or vibrations, do not have a stable nature. If the scrolls are liable to movement, they must be removed from the aerials or eliminated by insulation. If the scrolls are fixed, since they are made of structures and section bars surrounding the metal detector, they must be insulated by an appropriate split. Otherwise, they can be made electrically stable by rivetings or electrical by-pass connections (in case of varnishing, remove the varnish coat on the faying surface of the screws, and use toothed washers).

Electric disturbances

Electric disturbances are produced when the aerials are near power supply cables (electro-magnetic field generated by alternating currents) or sources of impulsive electro-magnetic disturbances (electric motors with a high ignition absorption and related power supply cables, fluorescent lights, emergency generators, teleprinters, air conditioning units, remote control switches, etc.).

A- Power supply cables should be placed at a distance of at least 20 cm from the sensitive probe, especially from the receiving one (the distance depends on the currents intensity). They must also be twisted with a pitch greater than 2.5 cm (if it is not possible, they must be inserted into a screening tube made of ferrous material at least 2 mm thick).

B- Impulse sources must be removed, eliminated or screened.

b₁. Fluorescent lights: the lights and their related reactors must be removed from the Metal Detector and especially from the Metal Detector's receiving probe marked by the red stamp. Where it is possible, change the fluorescent lights with filament lights.

b₂. Electric locks: if they are placed close to the Metal Detector's probe, we suggest to use those supplied with screening; it is better to use motorized locks with a lower acceleration current.

Positioning the Booth

The booth's installation can be carried out in two different ways:

- a) - **Leaned installation**
- b) - **Embedded installation**

LEANED INSTALLATION:

- 1) Position the booth in the fixed place, putting the external side of it towards the outside of the place. To move the booth, use a crane with a minimum lifting power of 1500 kg, using chains hooked to the booth's four "A" upper edges, the crowbar on the bottom (*fig. 7A*) and the rollers under the base (*fig. 7B*);

SEE FIGURES 7A-7B BOOTH MOVEMENTS

- 2) Free the booth from the external package only after positioning;
- 3) Secure the booth to the ground, so that it cannot move using the stopping feet (1-2-3-4) placed under the rubber floor (*fig. 8*). Stability is necessary for the booth to work properly.

SEE FIGURE 8 STOPPING FEET

- 4) Attach any possible fastenings to the booth's structure, paying attention to the screws, which cannot be inserted for more than 2 cm. Do not make holes in the plastic and glassy parts of the structure. Do not make holes near the glass. Keep away from the edge of the lateral glass at least 3 cm; do not obstruct the inspection doors with plugging structures.
- 5) Should there be 2 or more booths coupled, determine the right and the left one. Special information is shown on the booth's external side, under the package. It is important to respect the position directions according to the installation environment.

EMBEDDED INSTALLATION:

The installation is embedded when the booth's floor and the external one are at the same level.

If the building is new, it is necessary:

- place the frame that Saima Sicurezza supplies upon request (fig. 9);
- lay cement externally;
- lay cement until the whole framework is covered.

If the place exists already, it is necessary to make an opening in the floor with the frame's same external dimensions that must be embedded and cemented.

1) Follow the directions previously described at point n°1 of the leaned installation

SEE FIGURE 9 EMBEDDED INSTALLATION

2) Embed the booth into the frame orienting it towards the right direction.

3) Use the plastic section bars (detail A, *fig. 9*) which are supplied upon request, as staff bed between the booth and the metal frame, adapting them to the installation and fixing them with silicone.

Lateral frames application

To anchor the booth to the plugging structures, see the lower figure (fig.10).

SEE FIGURE 10 LATERAL FRAMES APPLICATION

Follow this procedure to apply the frames:

- 1) Place the booth on the fixed place.
- 2) With the plugging structures, stand against the chosen anchoring area on the booth (*fig.10*)
- 3) At the same time drill the booth's frame and sheet, with an appropriate drill;
- 4) Screw in self-tapping screws with of suitable size;
- 5) Tighten the screws firmly.

Examples of installation.

SEE FIGURE 13 EXAMPLES OF INSTALLATION

Wiring

- 1) Close to the booth's housing, make an electric connector box powered by a cable connected to the bank's fuse box. The booth is supplied with a 1,5 m long power supply cable complete with plug. We recommend you protect the power supply cable with a 15 A Id = 0.03 A differential switch. Make sure that the grounding is good.

SEE FIGURE 11 WIRING

N.B.1: We suggest you make the connector box with n°2 plugs and with the differential gear included.

- 2) From the upper part of the booth, arrange a multipolar cable connecting the booth to the place where the operator is assigned to operate the console, using a duct with a diameter of 32 mm. **Use a duct different from the one used for the power supply cable.**
- 3) In case of coupled booths, the connector box power supply must be separated. To connect with the console, all booths must be connected between them using Saima's connecting cable (code 5804530).
- 4) Connect the console's cable.

N.B.2: the cable's passage can be also made at the bottom (see *fig. 2*). In this case, arrange the insertion of cables inside the booth's vertical passage holes when it is placed on the ground.

Use a duct separated from the one used for the power supply cable. In order to respect the laws, it is necessary to ground the connection.

- 5) Switch on the bank's main, which feeds the booth with the privileged line. So, switch on the booth's main.

WARNING! Before switching on the booth, remove the door's lock rod (detail C fig. 12) and loosen the "weighed basket" blocking nut (detail B fig. 12). This nut will be lightly tightened by rotating it counterclockwise.

SEE FIGURE 12 BOOTH PRE-STARTING

!!! N.B.: Do not move the nut "A" from the fixed position, since it has been set-up directly by Saima Sicurezza during testing.

- 6) Start the booth with the ignition key placed on the console or with the key placed on the external side of the booth. Wait approximately 10 seconds, during which do not touch the doors, so to avoid calibration changes.
- 7) Now the booth is ready to be tested (this must to be carried out by authorized staff only) and ready for use.

Testing

Once tested, verify:

- Control that the console is working.
- Metal detector alarm.
- CE release button.
- Photoelectric cells working.
- Check door's movements.
- Check the automatic reset.
- Check the signal lights.

For settings different from those pre-set, ask Saima Sicurezza S.p.A. for the technical handbooks.

Deactivation and setting aside

If the booth is not used for a long time, it is necessary to disconnect the power supply cable and the batteries.

We exhort the operator to put away the booth in a dry and sheltered place and to insulate every component from the floor and walls.

**REMEMBER THAT ONLY SKILLED AND AUTHORIZED STAFF CAN
DISASSEMBLE THE SYSTEM.**

MAINTENANCE

System handbook

Check the following every six months:

TYPE OF CHECK

CHECK DESCRIPTION

Electronic exchange	Check there are no liquids filtered through Check there are no over-heated parts Check the leds of the exchange
Control console	Check the commutators Check the buttons Check the leds Check and set, if necessary, the volume of the intercom.
Metal Detector	Test with people's transit without metal objects and with metal objects comparable to a gun mass.
Push-button panels and roof lamp	Check the light signals Check the opening buttons and the bell
Accident prevention	Adjustment of the end-strok, open and closed doors Emergency release tests Check the maximum pair Check the sensitivity of the accident prevention sensors
Motorization	Check the cleaning condition of the slides and wheels Check that screws bolts of the wheels and belts are tightened Check the clearances on the mobile parts in static condition
Clearances on the mobile parts in dynamic condition	Check the motor and cinematic noise Check the sliding surface and the wear conditions of the carriages wheels Check the conditions of the moving cables
Weighing system	Check the alignment of the internal floor /external floor Check the charging cell Check the response (person's object sample, zero setting) with tolerance ± 80 gr Check the conditions of the silent blocks and leaf springs
Automatic power supply	Check the batteries and their possible replacement Check the working of the system without power supply net (only the internal lamp of the booth must rest put off).

N.B. This handbook is an integral part of the system and it must be kept close to the booth.

Maintenance card

List of periodic checks carried out according to the procedures previously described.

<i>Date</i>	<i>Technician</i>	<i>Signature</i>	<i>Next check</i>	<i>Notes</i>

N.B.: This handbook is an integral part of the system and it must be kept close to the booth.

Equipment on request

- *M.D. - Metal Detector equipped with small studs, with a rectangular or circular section integrated in the structure.*
- *Voice synthesis with more messages in many languages.*
- *Internal micro-camera.*
- *Badge reader.*
- *Electric keys.*
- *Electronic keys.*
- *Remote opening radar.*
- *Interface electronic card with emergency exit (push door).*
- *Electronic card to manage the Self-service area.*
- *Holding frame for the embedding floor.*
- *Thermoform finishing frame for the embedding floor.*

Labels

entrance

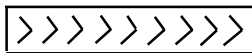
stick on the glass of the entrance door

exit

stick on the glass of the exit door

NOT
WALKABLE

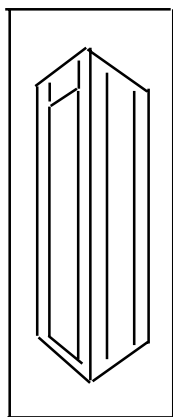
stick on the roof of the booth



**stick on the doors' glasses
make them visible**

external side

remove when installing

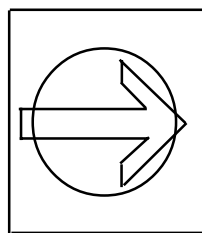
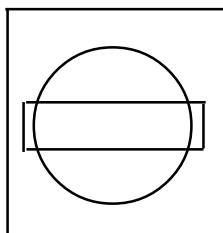


**to apply with the metal detector placed towards the opening
button**

FOR THE SAFETY OF THE KIND CUSTOMERS,
THE ACCESS DOORS ARE EQUIPPED WITH METAL
DETECTOR. SO IF THERE ARE METAL MASSES,
THEY WILL BLOCK. PLEASE DEPOSIT ALL METAL
OBJECTS IN THE BOX.
WE INFORM CUSTOMERS WITH PACEMAKERS
THAT THE METAL DETECTOR IS HARMLESS.

Enter one at a time

apply on the booth equipped with weight check



**These labels must be applied on
the booth to give directions.**

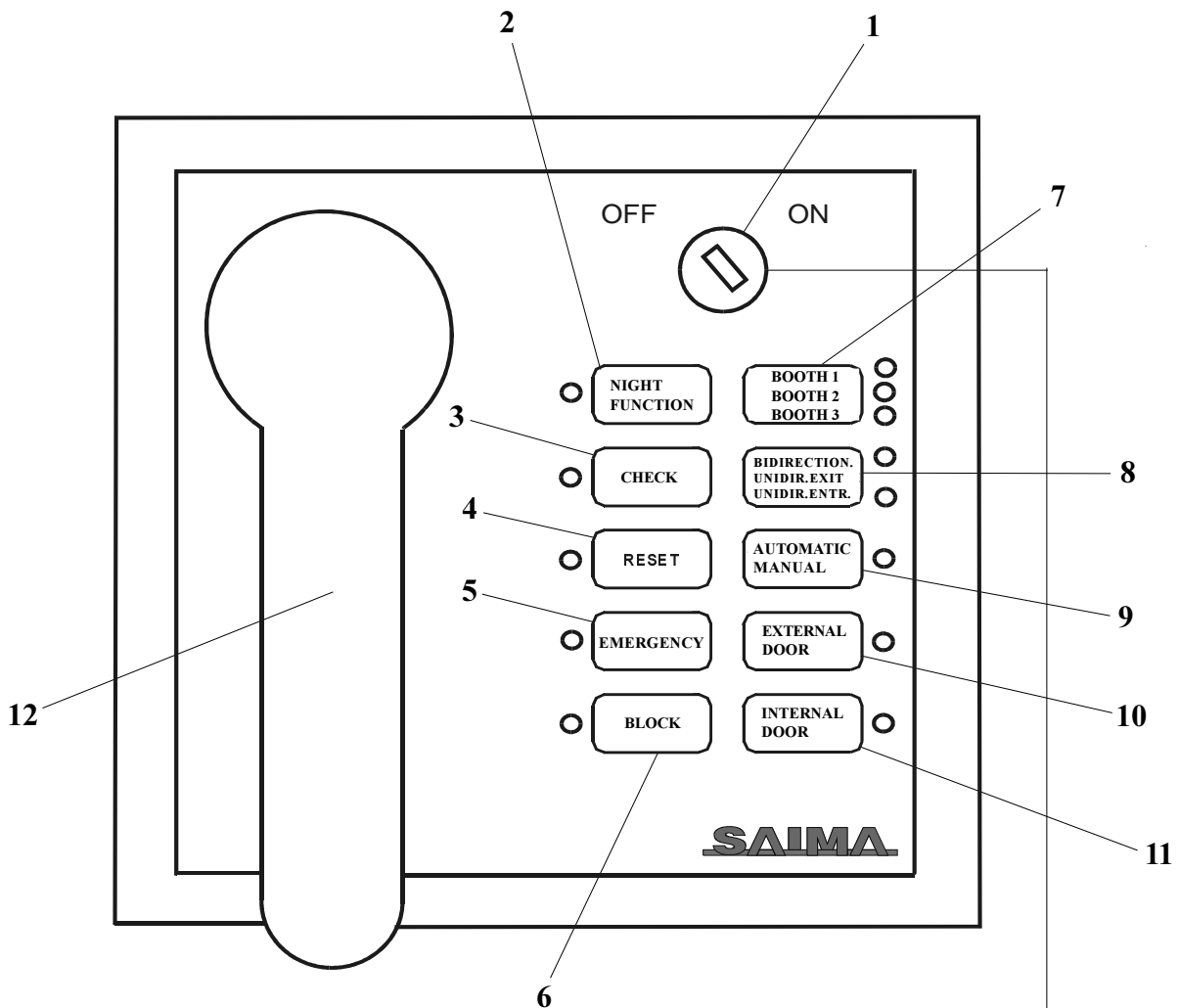
Operating anomalies

<i>ANOMALY</i>	<i>POSSIBLE SOLUTIONS</i>
<p>The external door opens and closes constantly a voice message asks to "Please put all metal objects in the box"</p>	<ol style="list-style-type: none"> 1) Check and see if any dangerous or suspicious object has been abandoned in the booth. Please do not do anything and ring the alarm. If it is a different object remove it as follows: <ol style="list-style-type: none"> 1.1) Do a "Reset" on the serial console and press "Enter" on the digital console. 1.2) Open the internal door using the exit button and remove the object. 1.3) After the door closes repeat the procedure described in point 1.1. 2) After having verified that the booth is empty follow the procedure described in point 1.1. 3) Should this problem arise immediately after or after a short period of time please contact Saima's assistance service.
<p>The door does not close.</p>	<ol style="list-style-type: none"> 1) Two people are in the booth at the same time: <ol style="list-style-type: none"> 1.1) Through the intercom ask one person to leave. 2) A person that weighs too much is inside the booth or an adult with a child: <ol style="list-style-type: none"> 2.1) Push "Enter" on the digital console and "Reset" on the serial console if you want to allow the person/people to pass. If not use the intercom and ask the person to leave. 3) The booth is empty: <ol style="list-style-type: none"> 3.1) Check the console's condition. See that the "block" function is not active on both the serial console and the digital console. 4) The booth is empty and none of the above conditions apply. (1-2-3): <ol style="list-style-type: none"> 4.1) Push "Enter" on the digital console and "Reset" on the serial console. 5) The photocell on the side of the passage is covered: <ol style="list-style-type: none"> 5.1) Remove the object in front of the photocell. 5.2) Clean the photocell's glass. 5.3) Turn off the photocell. If it is the external photocell push 10 on the serial console or 11 for the internal door. Press 7 for a second at the same time. The booth is reset, but you must call Saima's assistance service. 6) Call Saima's service.

<i>ANOMALY</i>	<i>POSSIBLE SOLUTIONS</i>
<p>The door does not work properly.</p>	<ol style="list-style-type: none"> 1) Verify the settings on the console. 2) Do a console "Reset" (only the serial console).
<p>The metal detector's alarm goes off constantly.</p>	<ol style="list-style-type: none"> 1) Make sure that there are no metal objects near the external door. 2) Make sure that there are no maintenance workers or equipment near the booth. 3) On the serial console press "Control" to de-activate the metal detector and call Saima assistance service . 4) On the digital console it is possible to lower the metal detector's sensitivity (call Saima assistance service).

GRAPHIC REPRESENTATIONS

FIGURE 1A SERIAL CONTROL CONSOLE



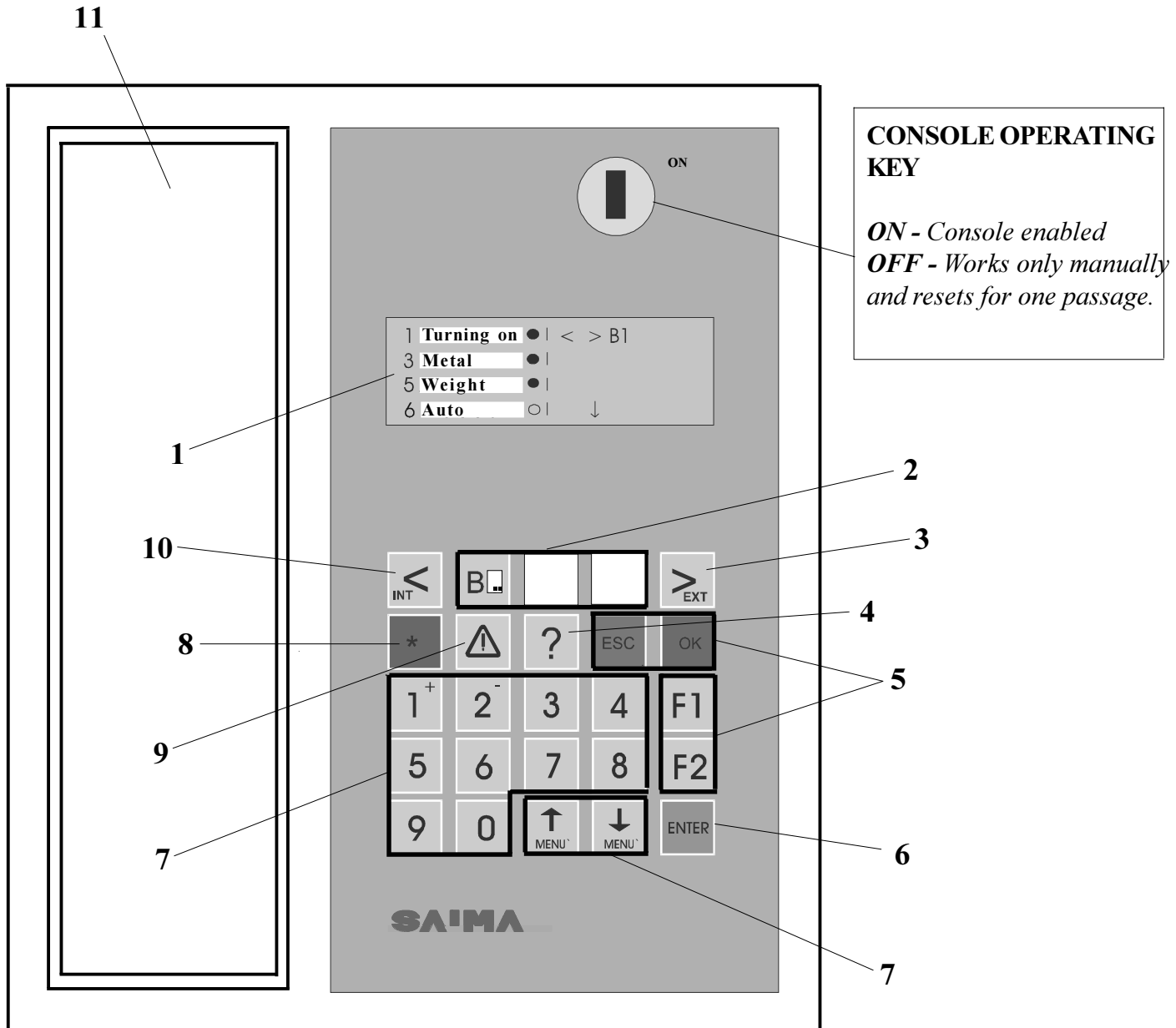
- 1 - ON/OFF key to enable the console
- 2 - Starting - Night function
- 3 - Check (Metal Detector)
- 4 - Reset
- 5 - Emergency
- 6 - Block
- 7 - Booth1, booth 2, booth 3
- 8 - Bidirectional/unidirectional exit/unidirectional entrance
- 9 - Automatic/Manual
- 10 - External door
- 11 - Internal door
- 12 - Intercom handset

CONSOLE OPERATING KEY

ON- Console enabled

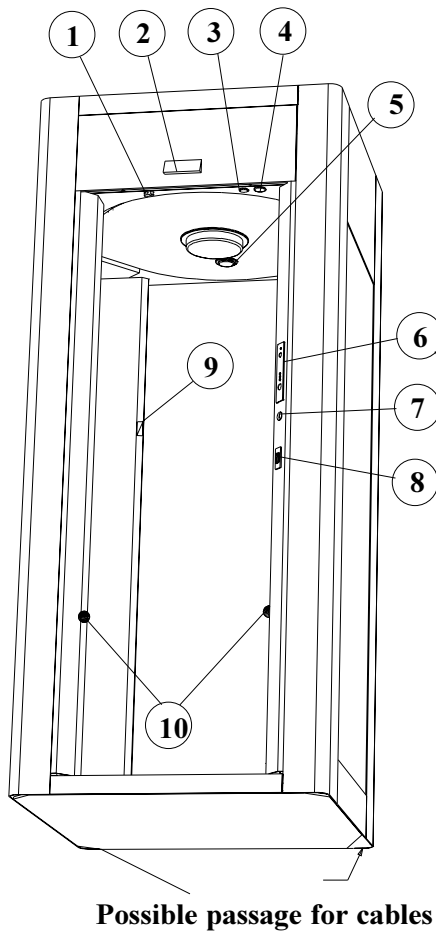
OFF- Only the functions "Manual working" and "Reset for one passage are enabled"

FIGURE 1B DIGITAL CONTROL CONSOLE



- 1 - Display
- 2 - Selecs booth B
- 3 - External door's manual opening.
- 4 - Multifunction key
- 5 - Setup keys
- 6 - Reset
- 7 - Shifting of the function menu
- 8 - Emergency
- 9 - CE release
- 10 - Internal door's manual opening.
- 11 - Intercom handset.

FIGURE 2 VIEW OF THE EXTERNAL SIDE



- 1) -mechanic lock
- 2) -radar (optional)
- 3) -electric key (optional)
- 4) -loudspeaker
- 5) -small light
- 6) -external push-button panel
- 7) -electric key (optional)
- 8) -badge reader (optional)
- 9) -stop button and intercom aid call
- 10) -RX (left)-TX (right) photocells

FIGURE 3 EXTERNAL PUSH BUTTON PANEL

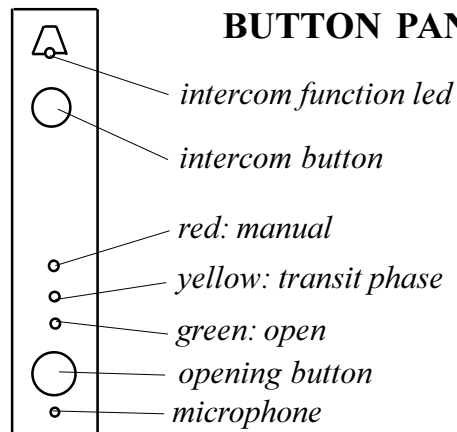
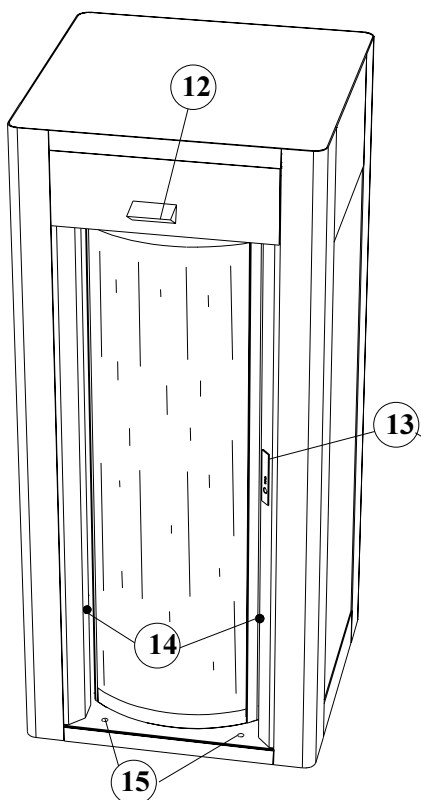


FIGURE 4 VIEW OF THE INTERNAL SIDE



- 12)- radar (optional)
- 13)- internal push-button panel
- 14)- RX(left)-TX(right) photocells
- 15)- fastening screws (n°2 int+n°2 est)

FIGURE 5 INTERNAL PUSH BUTTON PANEL

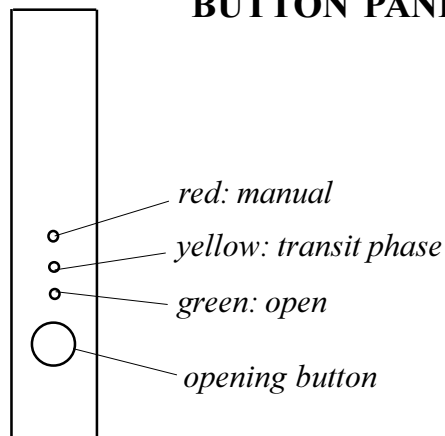
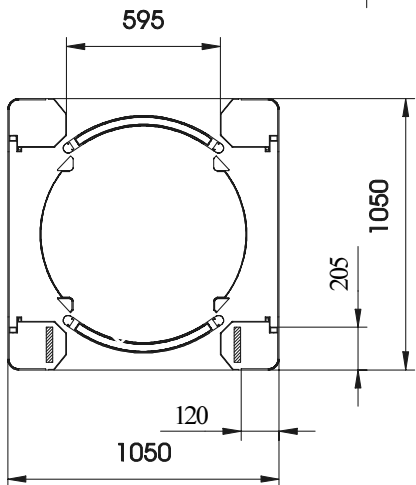
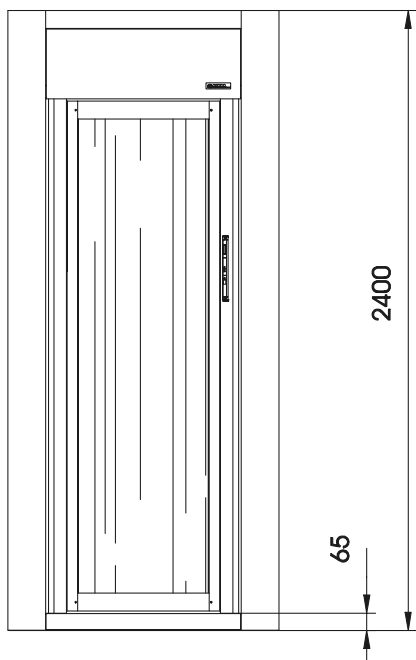


FIGURE 6 TECHNICAL SPECIFICATIONS



External side

Standard version with on-line entrance and exit
Upon request: - exit at 90° right
- exit at 90° left

Electric system

Power supply voltage : 220± 10%V - 50Hz
Maximum absorbed power : 0,2 KW
Batteries : n°2- 2Ah 12V airtight lead in series

Inputs and outputs : 20 + 16
Lines : n°3 RS232 (+ n°1 RS232 Reserved)
n°2 RS 485
Motors : n° 2 - 24 VDC - 100W
Management logic : planning by a multiprocessor unit
Autonomy without net: 60 minutes with 200 passagges
Autonomy without net, with M.D. on: 25 minutes with 200 passagges

Structure

Frame: made of tubes of 30/10 mm
press-bent steel sheet
Plugging structures: flat and bent stratified glass
(8+10+8- PVB0.76x2)
Varnishing: Polyurethane with epoxy base
thin embossed

Performances

Reset type: Automatic
Transit speed: 6 passages per minute
Working temperature: -10 °C / +55°C

Dimensions and weight

Dimensions: Height 2400 mm
Length 1050 mm
Width 1050 mm

Transit dimensions: Height 2000 mm
Width 550 mm

Weight : 800 Kg

FIGURES 7A-7B BOOTH MOVEMENTS

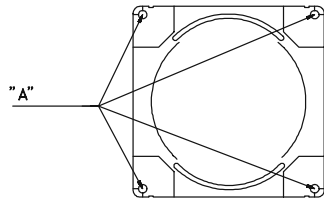


Fig. 7A

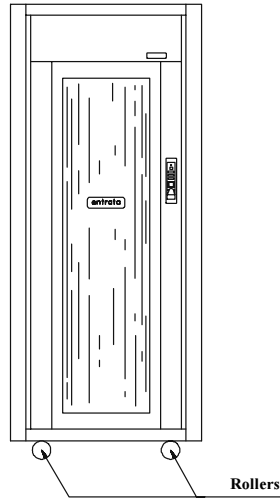


Fig. 7B

FIGURE 8 STOPPING FEET

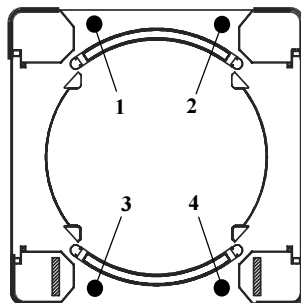


FIGURE 9 EMBEDDED INSTALLATION

Holes for the passage of cables

We suggest to keep these holes in correspondence of the internal side

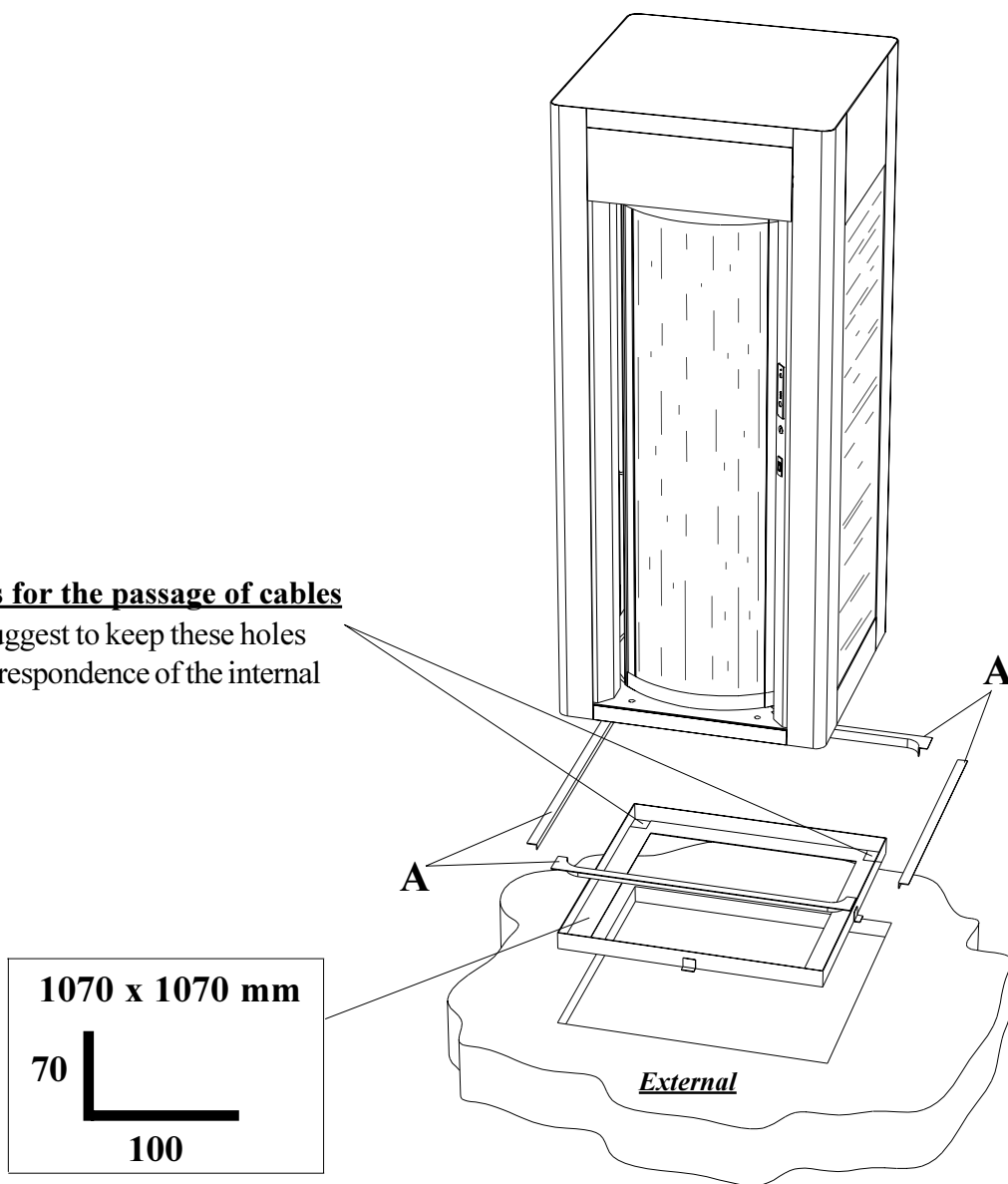


FIGURE 10 LATERAL FRAMES APPLICATION

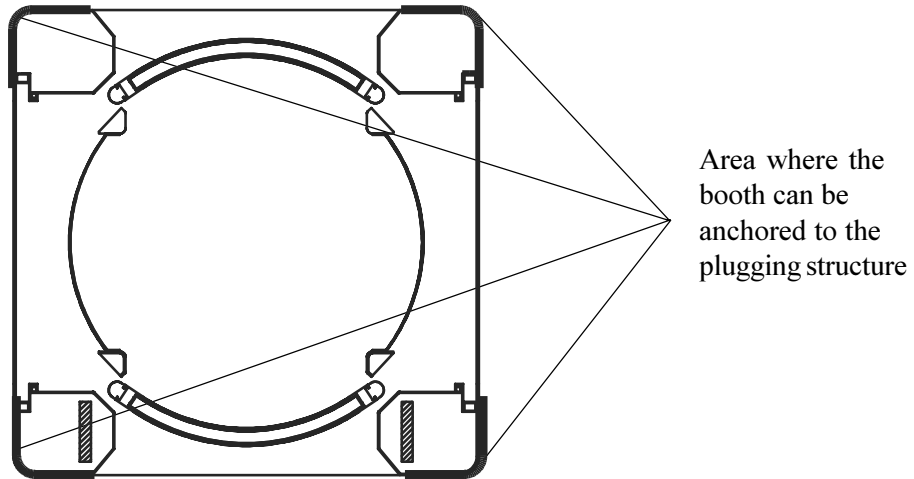


FIGURE 13 EXAMPLES OF INSTALLATION

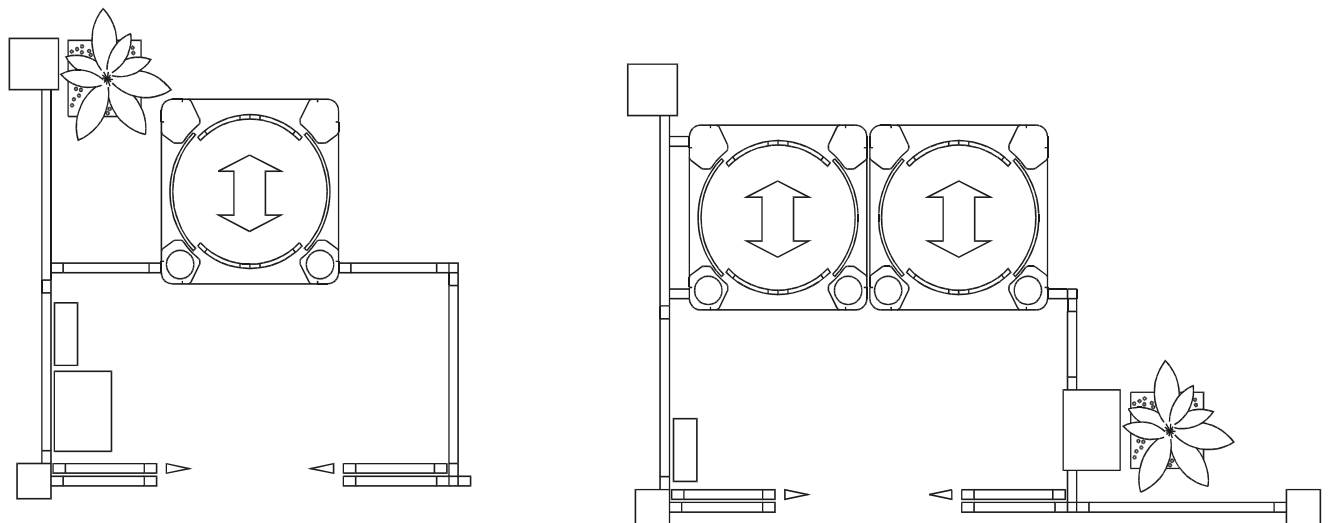


FIGURE 11 WIRING

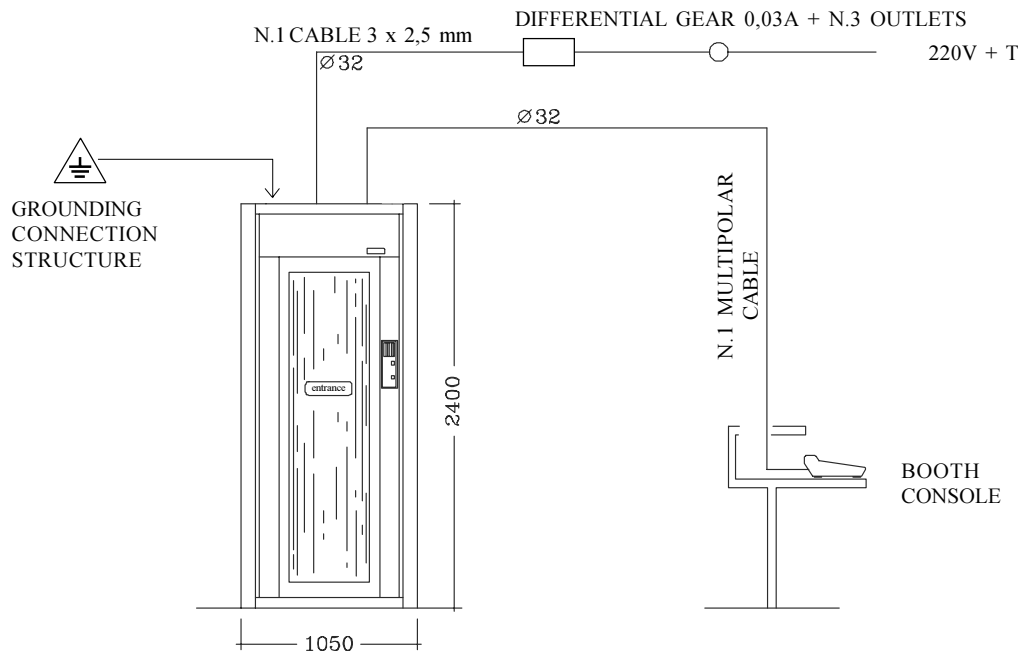
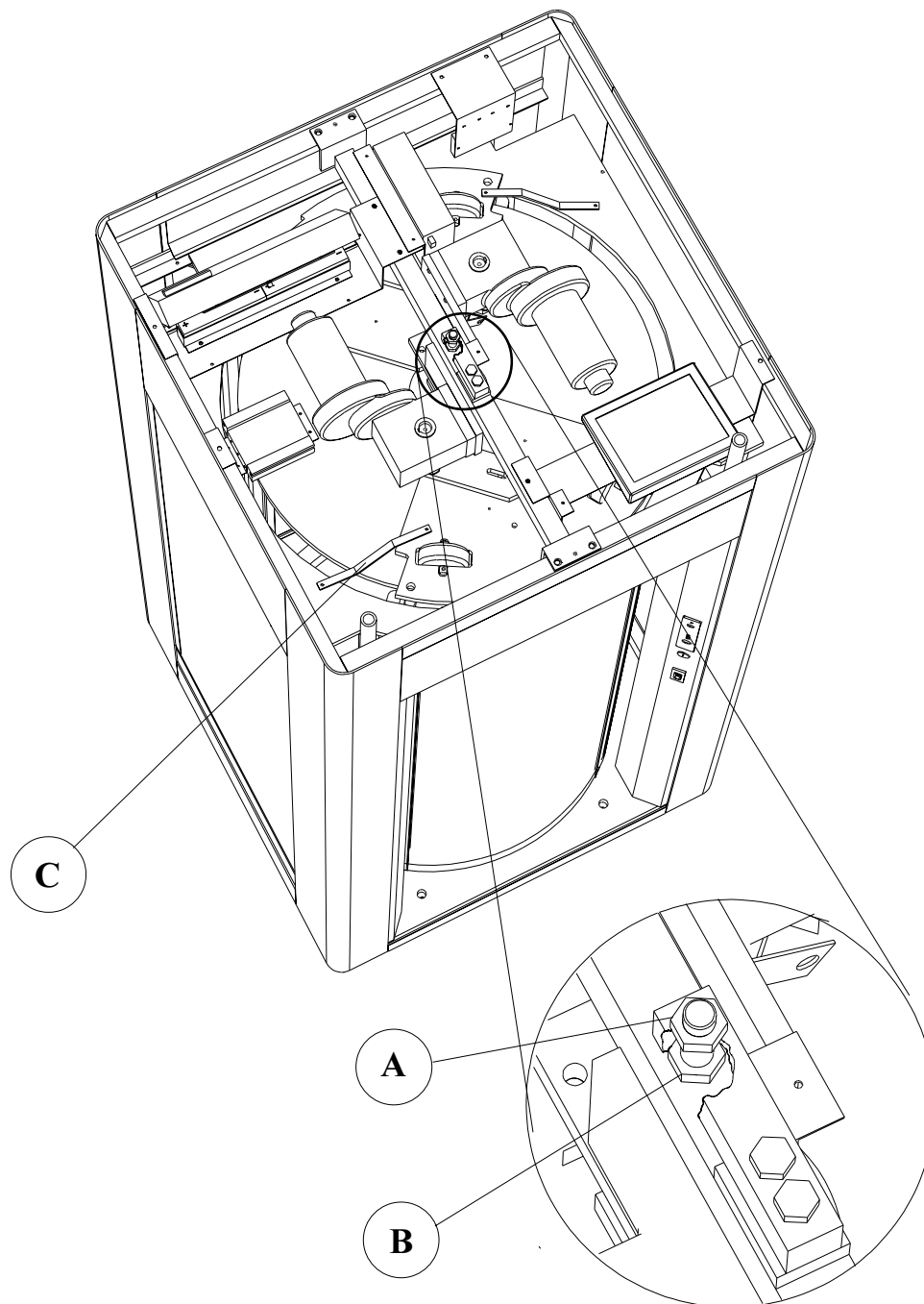


FIGURE 12 BOOTH PRE-STARTING

- A** - Nut to adjust the height of the weighed basket
- B** - Check nut to block the weighed basket
- C** - Door lock rod