

ClearLock 645

Technical datasheet

Rev. 07 • Update 09/2024

AUTOMATIC
SYSTEMS

ClearLock™



DESCRIPTION

1. Painted steel **upper casing** containing the drive mechanism and the control board unit of the security booth.
2. **Mobile obstacles** in laminated glass BR3S P6B. Each door panel is equipped with a protection ensuring the safety of users.
3. **Side panels** made of painted steel.
4. **Metal floor** of 28 mm thick for installation on finished floor.
5. **Control board unit & motorisation** comprising:
 - Programmable electronic board
 - Remote console for operating mode adjustment
 - Voice messages device
 - Connection terminals including RS485 interface port
 - 24V DC power supply
 - Two back-up batteries ensuring 100 cycles in case of power failure
 - Two 24V DC motors controlled by the programmable electronic board, ensuring fast movements with progressive deceleration at the end of the cycle.
 - Electro-mechanical lock of the obstacles (with programmable unlocking in case of power failure)
 - Safety cells for reopening in case a presence is detected in front of the obstacles (anti-pinch safety)
6. **Spotlights** for the passageway lighting.
7. **Status light**: red and green LED displays indicating the status of the security booth.
8. **Bubble rubber base floor**.
9. **"Single person" detection by hanged weight detection system** (2 directions).
10. **Push buttons** for emergency opening and intercom.
11. **Lock** for external door locking.

The ClearLock series booths are designed to provide high security access control and management of pedestrian flow.

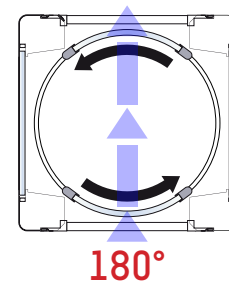
Their design and robust manufacture allow easy integration into prestigious site such as office buildings, airports, laboratories and sensitive sites.

Consisting of a frame, a painted steel housing and glass panels, the high-security **ClearLock** series booths provide thermal insulation and stand out in their surroundings.

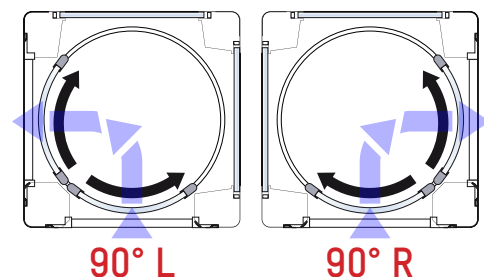
The high-security **ClearLock** series booths are motorised and bi-directional.

The high-security **ClearLock 645** booth is equipped with two mobile obstacles which provide a **free passage area of 580 mm**, an external dimensions of 1.050 x 1.050 mm.

The high security **ClearLock 645** is available with straight (180°) or left/right angled (90°) passage.



180°



90° L

90° R



STANDARD TECHNICAL CHARACTERISTICS

Power supply	230V single phase, 50/60 Hz, 10A + ground.
Consumption	200 W.
Backup battery	2 batteries of 2 Ah for the functioning in case of power failure.
Motors	2 motors of 24Vcc for the reversible movement of the doors, with security lock in closure. Opening of both doors in case of emergency.
Accident-prevention security	Sensors on the panels, both in entrance and in exit and control system that guarantees the regulation of the motor torque.
Passages	- 6 passages per minute in one direction - 8/9 passages per minute in both directions (such data do not consider the possible working times due to utilization of card/badge readers)
Dimensions	Overall dimensions (mm): Height: 2363 Width: 1050 Length: 1050 Passage dimensions (mm): Height: 1990 Width: 580
Weight	660 kg, depending on glass
Relative ambient humidity	85%, without condensation.
Ambient operating temperature	From -10° to +55°C.
MCBF (Mean cycles between failures)	1,000,000 cycles, in compliance with recommended maintenance
MTTR (Mean time to repair)	1 hour
CE	Complies with European standards

CONFIGURATIONS

- RAL7035 Light Grey (by default) - RAL9011 Black - RAL9010 White - RAL8019 dark brown.
- Profile position for wall connection:
 - entry / outside side.
 - middle position (by default).
 - exit / inside.
- In case of power failure :
 - By default: The exit door (secured side) remains locked.
The entry door (unsecured side) opens automatically.
 - All doors remain locked.
- Integration of card reader, intercom and/or push button at the entry and/or exit of the booth.
- Choice of the language of voice message and control consol.

SURFACE TREATMENT

All the mechanical parts are treated against corrosion by electro zinc, according to RoHS norms.

WORKS TO BE PROVIDED BY THE CUSTOMER

- Fixing on the floor.
- Power supply.
- Connection between booth and access control devise.

Note: Follow the installation plan.

OPTIONS

SPECIFIC OPTIONS

- 90° right or left passage
- Lateral panel in BR3S P6B glass (left side or right side).
- Mobile and fixed BR4S P6B glass doors
- Mobile and fixed BR4NS P8B glass doors.
- Product structure in FB4 certified metal (EN1522).
- Force entry resistance RC3 (EN1627) with mobile BR3S (EN1063) P6B (EN356) glass doors included.
- Force entry resistance RC4 (EN1627) with mobile BR3S (EN1063) P6B glass doors included.
- IP33 rain protection compatible with weight detection system (50mm higher booth). ¹
- Metal detector & left object control (entry way only). ²
- Heating of the canopy for outside front installation in extra cool climates (-30°C up to +50°C).
- Dismountable booth (instead of welded). Delivered assembled.
- Dismountable booth (instead of welded). Shipment in parts.
- White opaque glass.

GENERAL OPTIONS

- Break-in detection on the cover plate of the roof (microswitch contact).
- Medium structured satin paint in : other RAL colours than RAL7035, RAL9011, RAL8019, RAL9010.
- Flush mat powder coating in : any RAL colour.
- Brushed AISI 304 stainless steel finishing.
- Frame for floor built-in installation (25mm).
- Special support for installation on technical floor (Hmin100mm/Hmax400mm).
- Support on the post inside the booth for reader installation inside the booth.
- Support for readers (width > 85mm) fixed on the external (entrance) side or fixed on the internal (exit) side of the booth metal structure.
- Integration of any non-standard intercom or emergency button into the product (specific information of the device and desired position to be provided for customization).
- Mechanical locker for metal objects with 10 drawers.
- Radar for automatic door opening (entry or exit way).
- Colour video micro-camera inside of the booth (to be connected to a screen not supplied)
- Auxiliary control console (in connection with the standard control console).
- Delivery without any control console.
- 2 back-up batteries 12V 7Ah (300 opening cycles).
- Electronic card for the transmission in serial line of the weight detected inside the booth.
- Converter RS485 to LAN for booth networking
- Service kit (Iuppiter software + several cables). ³
- Top canopy with a different height, to close the space between the booth top and the ceiling (up to 500mm).
- Virtual Console for remote monitoring (software installed on a Linux server - server integrated or server touch).
- Virtual Console for remote monitoring (software installed on a PC Panel PSE 3215 21,5" - B8 module : CPU Celeron Apollo Lake J3455).

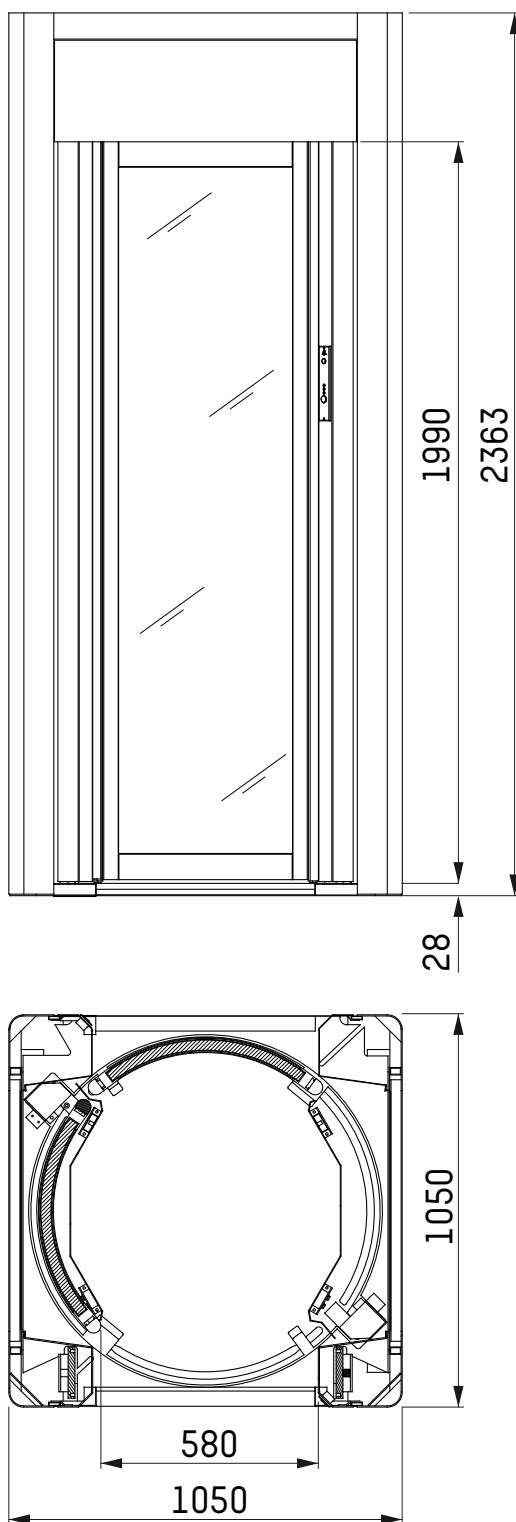
¹ The IP33 protection includes on the unsecured side of the booth : tight weight detection, tight user command plate + half-roof canopy.

² This metal detection option is not compatible with the RC4 glass doors option.

³ This kit is to be ordered once per installation site.

Note: For restrictions on options, please contact us.

STANDARD DIMENSIONS (MM)



Headquarters
Avenue Mercator, 5
1300 Wavre - Belgium

✉ sales.asgroup@automatic-systems.com

☎ +32.(0)10.23.02.11

🌐 www.automatic-systems.com



CL 645-FT-EN-07