



Record C 127 X

Underfloor swing door operator

Your global partner
for entrance solutions

C 127 X

High performance and Best in class

The C 127 X is the world's first underfloor drive for swing doors with protection class IP69 – completely watertight! The drive installed in the floor allows through the use of a cardan direct drive, doors with a door leaf weight of up to 1323 lbs (600kg) to operate elegantly and silently.

Invisible underfloor operator – tried and tested, powerful and silent

The two-component modular die cast housing with integrated electronic and control unit can be used for both single and double leaf applications. The unique design of the drive allows it to be mounted very close to the façade, which is a great advantage for installation flexibility. With a wide range of options and accessories, the C 127 X can be used in an extensive variety of applications.

The concealed drive supports the design freedom of discerning architects to design an impressive door for entrances in ultra-modern buildings. The maintenance-friendly system is recessed into the floor and if required, covered invisibly with the matching floor covering, making it blend seamlessly into the door area.

Due to the integrated wind damping, the door slows down in case of heavy winds and thus prevents damage to the facade, while also increasing safety for pedestrians.

Complies with following standards:

EN 16005, EN 18650, ANSI 156.19, BS 7036



The C 127 X swing door operator can handle door leaf weights up to 1323 lbs.

C 127 X – Center & Offset

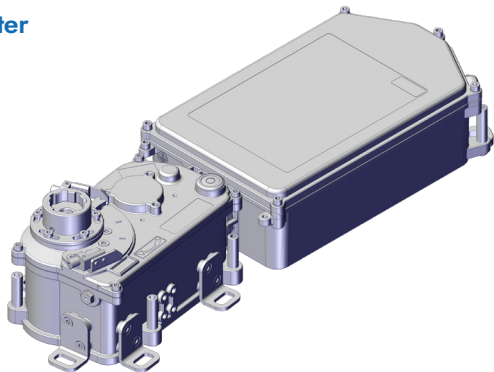
The C 127 X swing door operator is available in two versions. One with a central and one with a shifted pivot point. Both of the variants have their own benefits.

Center

In the center design, the door leaf is placed in the middle of the operator and could be used as a lower door mounting. In case of hinged doors it could be used with a sliding arm which will be mounted directly at the frame.

The lateral clearance of the lever arm is 4.13" (105 mm); the clearance of the lever arm to the front is 2.08" (53 mm). In order to make use of the slightest projection, these two versions can also be installed at a 90° angle to the door sill.

Center



Offset

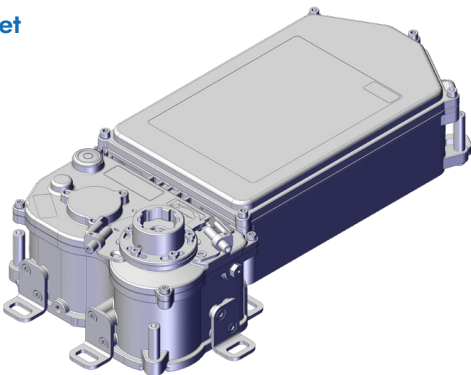
In the OFFSET version, the drive axis has been shifted from the center to the edge of the housing, thereby reducing the clearance to the side wall to only 1.97" (50 mm). This ensures that expansion joints or moisture barriers installed in front of the door sill are not affected and the drive can be mounted completely on the inside of the building.

For double-leaf door systems, another, symmetrically identical, housing shape has been developed. The doors can also be opened either inwards or outwards.

Impressive door openings

The opening angle is flexible and can be adjust up to maximum angle of 120°. This gains the benefit that the C 127 X with the huge opening angle and the clear passage width enables impressive entrance solutions.

Offset



Features and Options

Fully integrated; encapsulated to repel dirt and liquids

The two-component modular die cast housing with integrated electronic and control unit fulfill the highest Protection Class and reached the IP69 rating. The C 127 X is the world's first underfloor drive for swing doors which is completely water and dust tight, withstanding extremely harsh conditions.

Melted snow and ice or rainwater, as well as washing liquid from floor cleaning machines, do not impair the underfloor drive performance.

Integrated wind load brake

Our C 127 X is not only protected against water. Wind also has a great influence on the doors, particularly in coastal and mountainous regions, where it builds up enormous forces. Without braking, there is a risk of damage to the door leaf and drive motor upon impact with the end stops. These dangers can be avoided by using a wind load brake, which acts on the drive motor.

Too high speeds of the door leaf, caused by the influence of persons, wind gusts or heavy winds, are reduced by the integrated wind load brake. This prevents uncontrolled impact on the end stops. The brake becomes active during the last 20° of the opening angle both before the open position and before the closed position. The wind load brake can be extended to an effective range of 30° for doors that are particularly exposed to the wind.

Inverse safety option

In the normal version, the C 127 X opens doors using a motor and closes them with spring force. The inverse version reverses this principle, but remains almost unnoticed in daily operation.

If a building is filling with smoke and the drive is activated by an external smoke and heat extraction system, the C 127 X with inverse function opens reliably – thanks to opening by spring force, even in the event of a power failure. This enables the door to be used as an air vent opening for a targeted fresh air supply or for smoke and heat extraction.

Use

The C 127 X swing door operator is suitable for a variety of door types including, but not limited to single or double-leaf framed glass doors or all-glass doors. The operating modes can be selected conveniently using the Record S.M.A.R.T. Panel electronic control unit. The backlit display of this unit provides information at all times about the current operating condition of the door in the local language and in plain text. This electronic unit also provides the service port, which allows the connection to the wireless service app.

We moreover offer a range of sensors, contactless and touch-sensitive buttons and matching accessories, coordinated with our products, which excel through outstanding actuating performance, the highest degree of reliability and optimum safety.

Benefits

Powerful – up to 1323 lbs (600kg) door leaf weight

IP class 68 and IP 69 certified – watertight operator

Invisible, noiseless door drive

Suitable for double-leaf door systems (master/slave)

Integrated wind load brake

Designed for easy and fast installation

Low-maintenance & service-friendly thanks to service app

Options

Stainless steel cement box

Customized door lever

Threshold plate or Terrazzo tray for invisible integration into the building

Sliding arm and sliding rail (required for hinged doors)

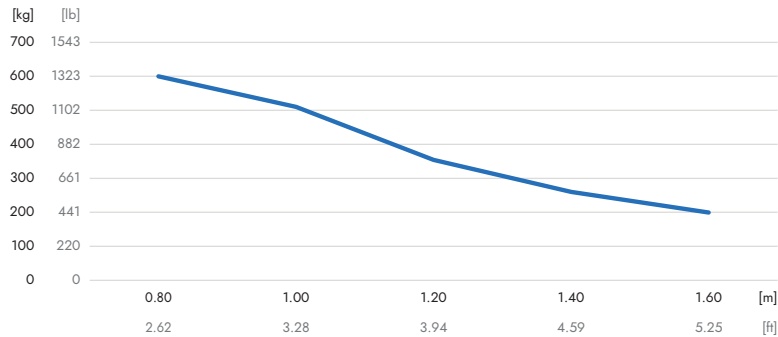
Operation unit for tablet access

Various actuating elements and fuse sensors

Installation situation & possibilities

Door leaf weights and door widths

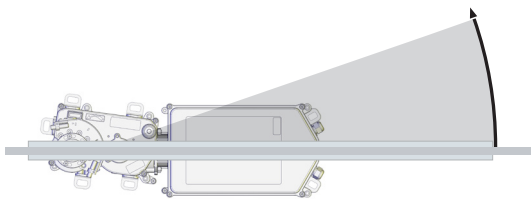
The following performance diagram help to identify the suitability of the operator with the door.



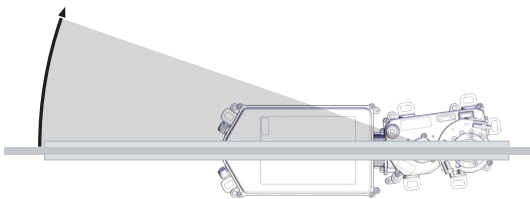
Installation situation & possibilities

The C 127 X Center could be mirrored to open in the opposite direction. CCW (counterclockwise) / CW (clockwise)

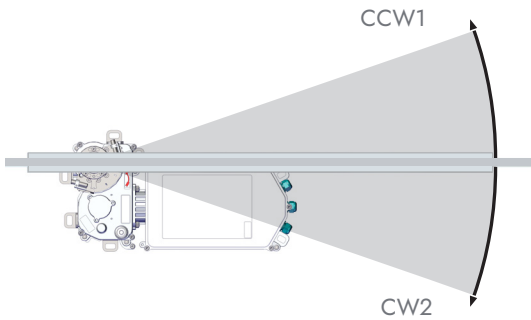
Center
CCW: 121-127816285



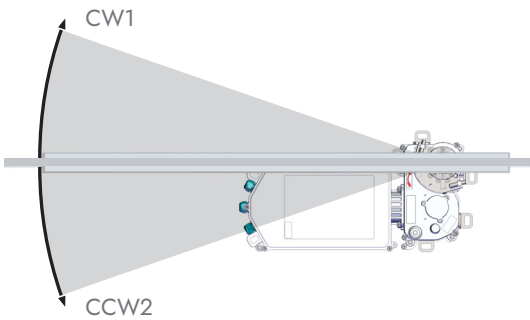
Center
CW: 121-127815787



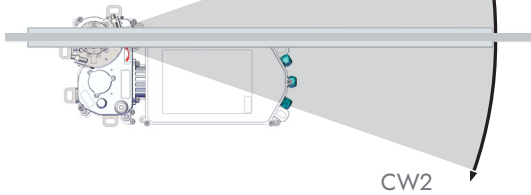
C 127 X Offset CCW 1
121-127815345



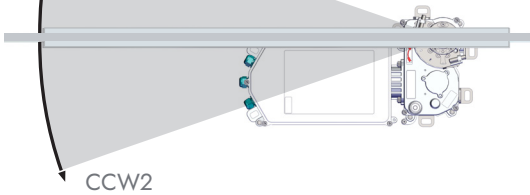
C 127 X Offset CW 1
121-127815270



C 127 X Offset CW 2
121-127815079



C 127 X Offset CCW 2
121-127815343



Operating modes

The following operating modes can be selected:

Manual mode

In manual mode, the drive is used as a mechanical door closer. The door can be opened without motor resistance and closes purely mechanically with spring force.

Power Assist

Power Assist is a function that allows a door to be opened manually, but opening movement is motor-assisted. The main advantage is that even heavy doors can be opened effortlessly with minimal effort, since the motorized assistance balances the initially high moment of inertia. This is necessary for children or elderly people in particular, who could otherwise have difficulty in applying sufficient force to open a heavier door.

Touch control

With the touch control system, the door requires only a short, fixed pulse to be opened automatically. The door closes after a selectable time span of 0 – 60 seconds has expired.

Automatic mode

In automatic mode, an electronic opening pulse is sent to the door via a sensor, a key switch or a button.

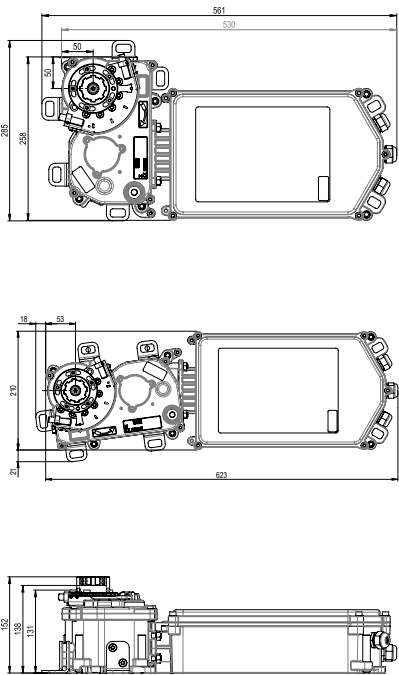
One-way traffic

One-way traffic ensures that store owners can finish work on time: The opening pulse from the external sensor, switch or button is suppressed, so that the door only reacts to people wanting to leave the store.

Technical specifications

Specifications

	Imperial	Metric
Opening width – One leaf	2.6–5.9 ft	800–1800 mm
Opening width – Double leaf	5.2–11.8 ft	1600–3600 mm
Opening angle	70°–120°	
Opening and closing speed	adjustable	
Maximum door height	13.1 ft	4000 mm
Door leaf weight (max)	1323 lbs	600 kg
Permissible wind speeds drive in operation	12.4–37.3 mph	20–60 km/h



Electrical data

Rated voltage [VAC / Hz]	100–240 / 50–60
Rated power [W]	67
Consumption in idle mode [W]	25

Technical data

	Offset		Center	
	Imperial	Metric	Imperial	Metric
Dimensions drive (LxWxH)	22.1 x 10.1 x 5.9 inch	561 x 258 x 152 mm	25.2 x 9.1 x 5.9 inch	641 x 231 x 152 mm
Dimensions with Stainless steel cement box (LxWxH)	33.1 x 12.6 x 6.8 inch	840 x 320 x 173 mm	33.1 x 12.6 x 6.8 inch	840 x 320 x 173 mm
Position rotation axis	1.96 x 1.96 inch	50 x 50 mm	4.13 x 2.08 inch	105 x 53 mm
Weight	42 lbs	19 kg	42 lbs	19 kg
IP classification	IP 69		IP 69	
Rel. humidity	up to 85%, no condensate		up to 85%, no condensate	
Temperature range	-40 °F to 140 °F	-40 °C to +60 °C	-40 °F to 140 °F	-40 °C to +60 °C

Accessories

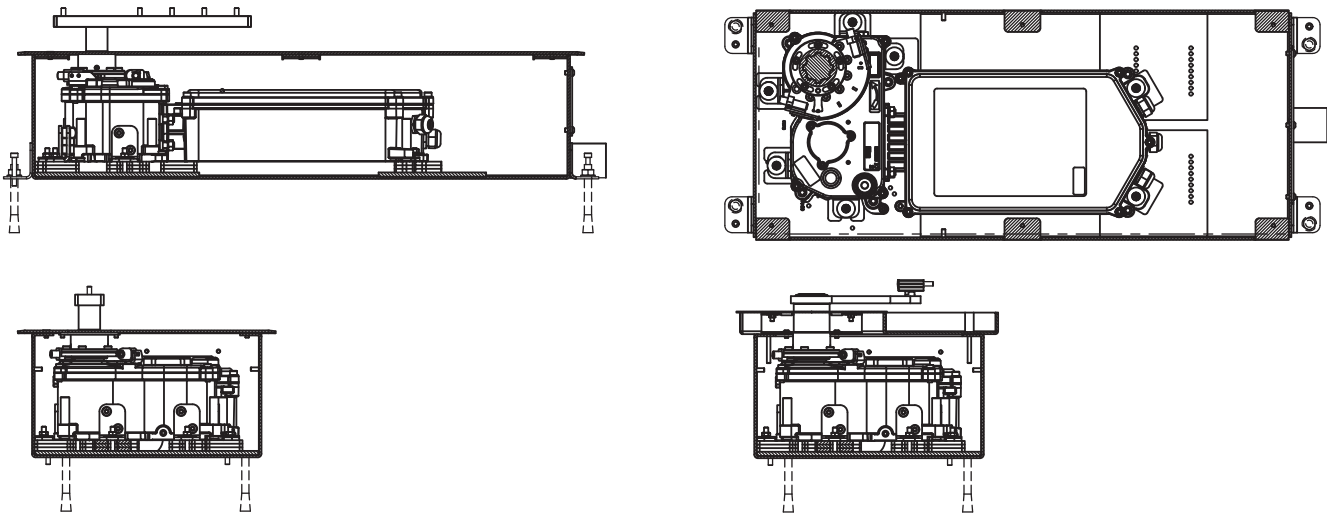
Stainless steel cement box
Stainless steel cover
Terrazzo coverpan
Heavy duty arm
100mm customizable steel adaptor
Door stop
Service Port



The wide product range in combination with the individual customer-specific adaptations enable the realization of a unique door design with the highest demands on quality and safety!

C 127 X - Installation examples

This section is highlighting installation examples with the stainless steel cement box in combination with the threshold plate or the terazzo tray using the sliding arm or the normal door lever.



Our complete product portfolio includes:

- » Automatic Sliding Doors
- » Swing Door Operators
- » Manual ICU Doors
- » Speedgates
- » Exit Lanes
- » Security Portals

Entrance solutions for all

Our products are sold, serviced and installed through our extensive network of authorized distributors located throughout the USA and Canada.

We want your doors to succeed

Since Record's inception in 1953, the center of all our product development and related services has been our customer — in other words, you. And while business needs have evolved significantly over the last 70 years (together with our product portfolio), one thing hasn't changed. Your full satisfaction with the quality of our products and services is still our single, most important goal. Because we know that when your doors succeed, you succeed. And that's all that matters.





Record Canada

221A Racco Pkwy
Vaughan, ON L4J 8X9
Canada
T 877 348 6837
www.recorddoors.ca

Record USA

4324 Phil Hargett Ct.
Monroe, NC 28110
USA
T 800 438 1937
E info@recorddoors.com
www.recorddoors.com

Headquartered in Switzerland, the Record group sells its products and services across the globe and is directly present with subsidiaries in many countries.

Part of ASSA ABLOY