

High-speed clean room doors in premium quality

Your reliable clean room partner for over 20 years





Electrical engineering



Biotechnology



Aerospace



Nanotechnology



Optical industry



Pharma



Medical technology



Solar/photovoltaics



Cosmetics



Packaging technology



Plastic mouldings

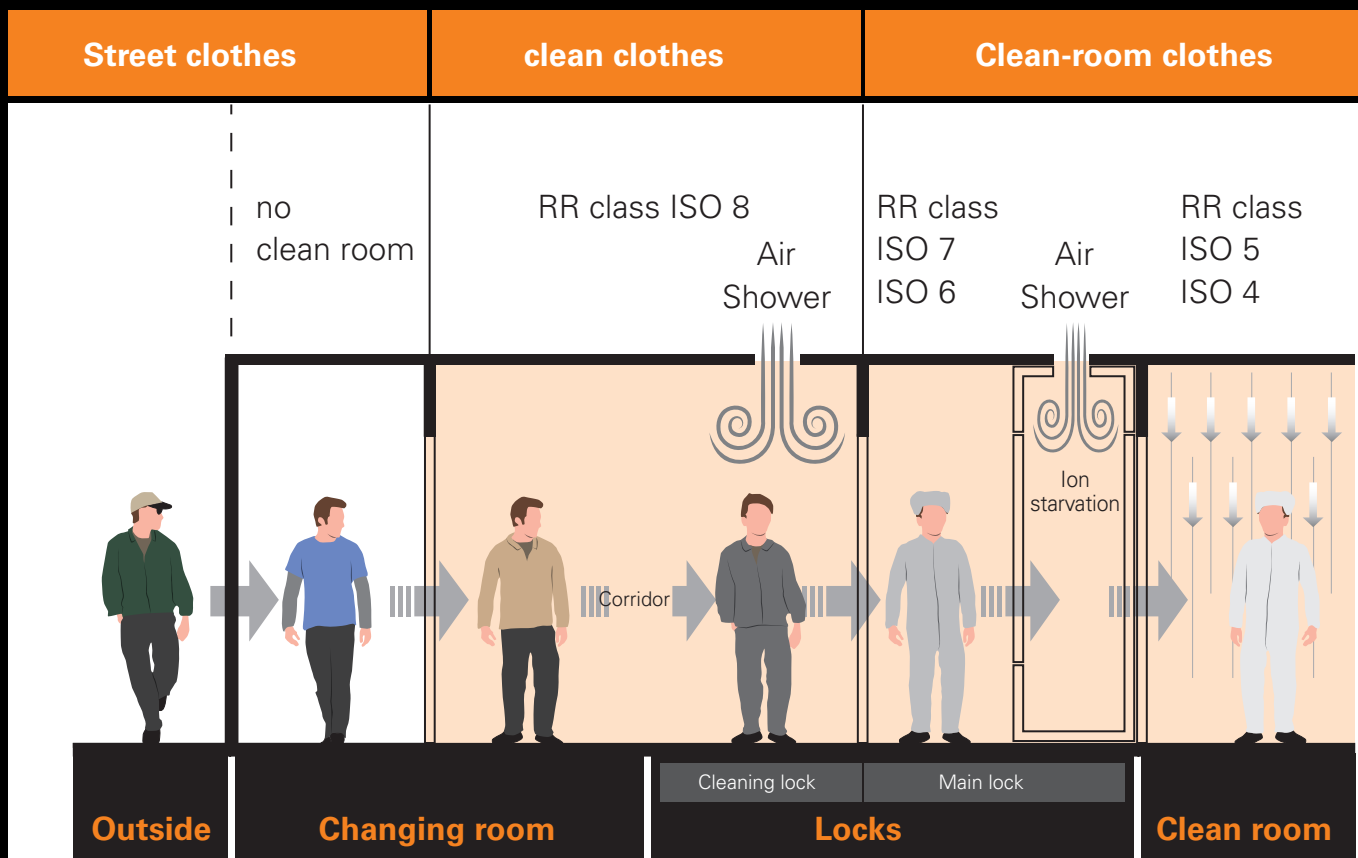


Chemical environmental analysis

Where are **clean rooms** used?

Clean rooms are mainly used in the semiconductor and pharmaceutical industry, in medical and biotechnology, aerospace and at producers in the life science sector (food & luxury foods and related fields).





What characterises a clean room?

- Personnel and material locks are used to maintain a pressure cascade. This is a prerequisite for preventing the introduction of particles and thus contamination in the clean room.
- A targeted air flow can be realised by means of the pressure difference.
- There are constant ambient conditions (temperature, light, pressure, humidity).
- Staff wear protective clothing.
- Access by persons and material introduction only via lock.



EFA-SRT® CR Premium

What are clean room classes?

According to EN ISO 14644-1, clean rooms are divided into classes that determine the degree of cleanliness (number and size of particles). The classification ranges from ISO 1 (the highest standard) to ISO 9 (equivalent to clean air).

The EFAFLEX CR Series high-speed doors have been certified by the TÜV for use in clean rooms.



ISO CLASSES ACCORDING TO DIN EN ISO 14644-1

Cleanroom Classification	Concentration limits (particles/m ³)					
	≥ 0.1 µm	≥ 0.2 µm	≥ 0.3 µm	≥ 0.5 µm	≥ 1.0 µm	≥ 5.0 µm
ISO Class 1	10	2				
ISO Class 2	100	24	10	4		
ISO Class 3	1,000	237	102	35	8	
ISO Class 4	10,000	2,370	1,020	352	83	
ISO Class 5	100,000	23,700	10,200	3,520	832	29
ISO Class 6	1,000,000	237,000	102,000	35,200	8,320	293
ISO Class 7				352,000	83,200	2,930
ISO Class 8				3,520,000	832,000	29,300
ISO Class 9				35,200,000	8,320,000	293,000

EFAFLEX

Clean room doors from **EFAFLEX**

EFA-SRT® CR PREMIUM

type 254



EFA-SRT® CR-C

type 679



EFA-SRT® CR EFFICIENT

type 678



EFA-STT® CR

type 675



Overview product portfolio

clean room

		CR Series			
		EFA-SRT® CR Premium	EFA-SRT® CR-C	EFA-SRT® CR Efficient	EFA-STT® CR
Clean room class according to EN ISO 14644-1 and VDI 2083 sheet 9.1		ISO Class 5	ISO Class 6 Optional: ISO Class 7	ISO Class 6	ISO Class 6
Control arrangement		Integrated into motor case	Integrated into complete covering (ISO 6) Optional: External (ISO 7)	external	external
Average speed	Opens in m/s	1.0	2.0	0.8	2.5
	Closes in m/s	0.5	0.75	0.5	0.75
Door size (in mm)	Width W max.	2,500	3,500	3,000	4,000
	Height H max.	3,000	3,500	3,500	5,000
Maximum permanent compressive strength		30 Pa	30 Pa	30 Pa	50 Pa
Air permeability		In the event of overpressure: <12 m³/m²h (class 2) In the event of underpressure: <20 m³/m²h (class 1)	In the event of overpressure: <20 m³/m²h (class 1) In the event of underpressure: <50 m³/m²h (class 0)	In the event of overpressure: <12 m³/m²h (class 2) In the event of underpressure: <50 m³/m²h (class 0)	<12 m³/m²h (class 2)
Weight counterbalance		Tension springs	Tension springs	–	Tension springs
Mechanical emergency operation		Pull-knob (possible on both sides)	Emergency lever (possible on both sides)	Hand crank (only on the assembly side)	Emergency lever (possible on both sides)
Uninterruptible power supply optional (EFA-UPS)		Integrated into motor case	External	External	External
Door leaf		Transversely stable polyester fabric, 2 mm thick Optional: Window Compliance: FDA total migration test	Transversely stable polyester fabric, 2 mm thick Optional: Window Compliance: FDA total migration test	Transversely stable polyester fabric, 2 mm thick Optional: Window Compliance: FDA total migration test	Single-walled sight laths made of SAN or polycarbonate with *aluminium profiles, anodised Optional: Powder coating
Curtain colour optionally in	Pure white	•	•	•	-
	Papyrus white	•	•	•	-
	Light grey	•	•	•	-
	Signal grey	•	•	•	-
	Anthracite grey	•	•	•	-
	Moss green	•	•	•	-
	Blue	•	•	•	-
	Red	•	•	•	-
	Yellow	•	•	•	-
	Orange	•	•	•	-
End-shield		Stainless steel Optional: Powder coating	Stainless steel Optional: Powder coating	Powder coating Optional: Stainless steel	Aluminium Optional: Powder coating
Protection of closing level		Safety edge + light barrier Optional: Door light grid (TLG)	Door light grid (TLG)	Safety edge + light barrier	Safety edge + light barrier Optional: Door light grid (TLG)
Design of steel parts		Stainless steel Optional: Powder coating	Stainless steel Optional: Powder coating	Powder coating Optional: Stainless steel	Galvanised Optional: Powder coating / stainless steel
Frame size (in mm)	Width B	280 (motor side) 200 (opposite side)	120	75	240
	Depth T	300 (motor side) 220 (opposite side)	220	100	235
Load cycles per year (with 10 years PLC)		200,000	200,000	100,000	200,000

EFAFLEX CR Series

equipment and features

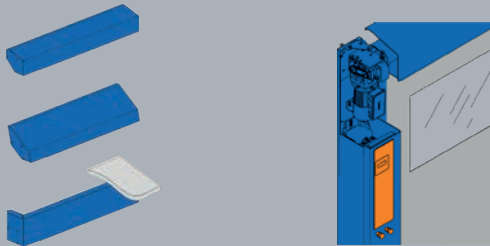
EFA-SRT® CR PREMIUM

Winding shaft covering

Standard: 15° slanted
Optional: 45° slanted or vertical to ceiling

Control

EFA-TRONIC® integrated into motor case



EFA-SRT® CR-C

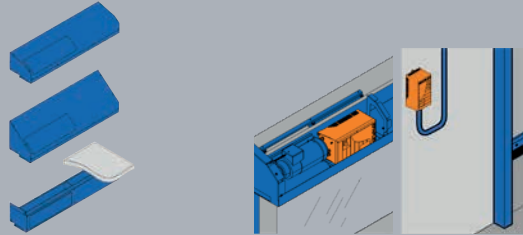
Winding shaft covering

Standard: 15° slanted
Optional: 40° slanted or vertical to ceiling

Control

Version ISO 6:
EFA-TRONIC® integrated in covering

Version ISO 7:
external EFA-TRONIC® or EFA-TRONIC® Professional



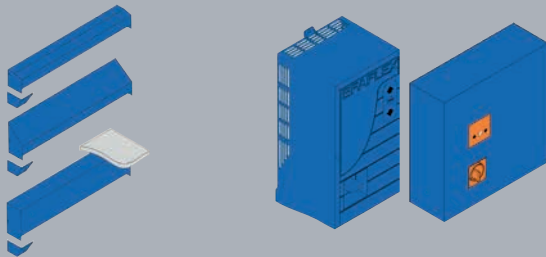
EFA-SRT® CR EFFICIENT

Winding shaft covering

Standard: 15° slanted
Optional: 45° slanted or vertical to ceiling

Control

external EFA-TRONIC® (standard)
external EFA-TRONIC® Professional Steel, RAL 7035
Optional: Painted according to RAL or in stainless steel



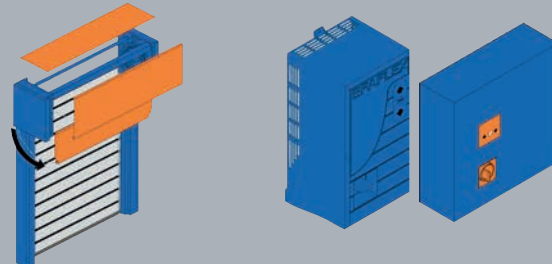
EFA-STT® CR

Covering

Standard: Complete cover of the round spiral
Special design: 45° slanted or vertical to ceiling

Control

external EFA-TRONIC® (standard)
external EFA-TRONIC® Professional Steel, RAL 7035
Optional: Painted according to RAL or in stainless steel



ACCESSORIES

COMMAND ENCODERS / INDICATORS

Command encoder:

- Contactless opening solution with radar technology
- Pull switch with clean room-compliant PVC cord
- Rocker switch and other push buttons
- Radio control
- Infrared / radar sensor
- Human Door Interface (HDI) with membrane keyboard and information display (e.g. when mounting the control unit in the false ceiling)

Indicators:

- LED-CR traffic light (red/green)
- LED bar (RGB multicolour)
- Flashing lamps

APPROACH AREA PROTECTION

- Infrared presence detector
- Radar sensor
- Combined radar / infrared sensor
- Laser scanner

CONTROL EXTENSIONS

- Air-lock control
- Conveyor technology interface incl. potential-free messages and potential inputs
- Limit switch for messages "Door opened" (type 254) and "Door closed" (type 254, 675)

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EFAFLEX® is a registered and legally
protected trademark.

Subject to technical changes. Some
diagrams depict special features.

Overall design:

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EFAFLEX 
safe high-speed doors