

TK Series



High-speed spiral doors for deep-freeze applications





EFA-SST® TK-100

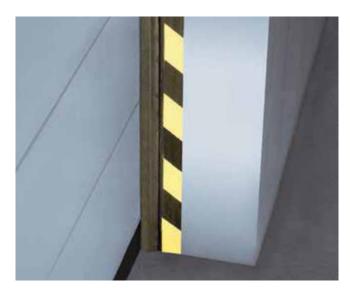


The deep-freeze single door solution

A glance at the advantages of the EFA-SST® TK-100:

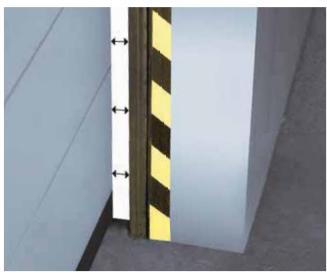
- Optimal deep-freeze single door solution
- Long-lasting high-speed door technology
- CFC free, 100 mm thick insulation laths
- Frames and laths thermally separated
- Energy-efficient heating system in laths and bottom section

The Active Framework Mechanism EFA-AFM® ensures a practically hermetic door seal.

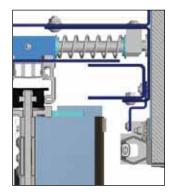


Leading technologies create real benefits that you can see and notice!

The EFA-SST® TK-100 is a true specialist! The first truly single door solution for deep-freeze areas that simultaneously reaches highest opening and closing speeds and the best insulation values for spiral doors. The EFAFLEX SST® TK-100 high-speed door is a high-quality solution for every deep-freeze room. The door is designed for up to 200,000 load cycles per year and the original EFAFLEX spiral ensures practically wear-free movement of the door blade at up to 2.0 m/s.



AFM system closed: The door is hermetically sealed.



AFM system open: The door blade is in motion.

Seals tight!

The innovative door design of the EFA-SST® TK-100 is ingenious. The door features a seal running all the way around the structure and dynamic door blade guidance.

This guidance and the spiral are mounted in a way to be movable against the frames. EFA-AFM® keeps the door blade pushed against the door frame, when closed and, combined with the rubber seal, seals the door practically hermetically. The sophisticated door construction allows installation on the warm and on the cold side of the opening, adapted to the particular requirements.

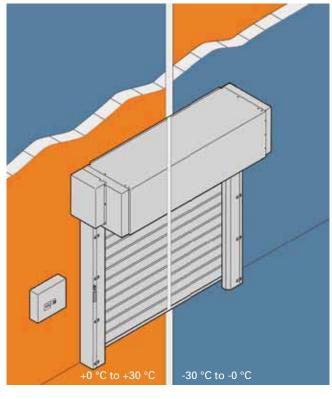
Perfection is in the detail

Constant temperature, low energy consumption

The 100 mm thick EFA-THERM® insulation laths of the EFA-SST® TK-100 guarantee better heat insulation than ever before. The laths are thermally separated as a standard.

Braves the frost

Contact surface heaters are employed throughout the entire door, being integrated into the seals around it and into the contact bar strip. These heat the contact surfaces of the seals against the door blade and the floor. The result of this unique design is a U value down to 0.62 W/m²K and operational temperatures between plus and minus 30 °C.



EFA-TLG® Door Light Grid

With the TÜV-certified infrared light grid EFA-TLG® you are on the safe side. The system is self-monitoring and works entirely without contact. EFA-TLG® detects even the smallest of obstacles in the door closing line. All EFA-SST® TK-100 doors come equipped with an additional accident prevention contact bar on the main closing edge as a standard. This ensures the highest degree of active and passive functionality in consideration of difficult usage and environment conditions in the deep-freeze area. The EFA-SST® TK-100 therefore also features tension springs integrated into the sides: in the event of e.g. a power failure, the door can be open in a second using a manual lever. For even higher safety we are able to provide further features like area surveillance as you approach or

laser scanners.

Technical Data:		TK Series EFA-SST® TK-100
Application	Deep-freeze application	- 30 °C/+ 30 °C
	Installation on cold side	- 30 °C to + 10 °C
	Installation on warm side	+ 30 °C to - 30 °C
Wind load*	According to DIN EN 13241-1 in classes	4
Operating forces/safe opening	According to DIN EN 13241-1	fulfilled
Resistance against penetrating water	According to DIN EN 13241-1 in classes	3
Air permeability	According to DIN EN 13241-1 in classes	4
Direct airborne sound insulation R _w *	in dB according to DIN EN 717-1	26
U value*	in W/m²K according to DIN EN 13241-1	0,62
Door size (in mm)	Width W max.	4,000
	Height H max.	6,000
Designed for approx load changes p.a		200,000
Maximum door blade speed*	in m/s	2.0
Average speed, approx.*	Opening in m/s	1.5
	Closing in m/s	0.5
Door blade guidance	Round Spiral	•
Direction of door operation		vertical
Steel design	Galvanized sheet steel frame	•
	Stainless steel	0
	Powder-coated according to RAL	0
Door blade	EFA-THERM® laths double-wall insulated/painted	•
	Colour according to RAL	0
Fire class	Building material class DIN 4102	B2
Weight balancing by		Spring
Drive	Electric motor with frequency converter	•
Control	MCP2 with BUS technology	•
Lead	Power supply connection 400 V/50 Hz	•
Manual locking		-
Emergency opening	Automatic after manual activation	•
Safety Devices	Warm side: EFA-TLG® door light grid in closing line and pressure sensitive edge	•
	Cold side: 2x pressure sensitive edge and 2x photo cells	•
Safety device including activator	Motion detector	0
Activators	Connection of all common activators possible	•

[•] Standard, o on request, – not available, *depending on door blade, door blade guidance and door size, subject to technical changes!

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Technological advancement. Pioneering design.

EFAFLEX * is a registered and legally protected trademark.
Subject to technical changes. Some diagrams depict special features.
Overall design:
www.creativconcept.de 03 | 15

For more than 40 years, EFAFLEX has developed and designed reliable and highly-efficient high-speed doors. With innovative technology and pioneering solutions for special requests, continually provides the market with new stimuli. This leadership role through superior technology, the best quality and a maximum degree of security is part of EFAFLEX's identity. More than 1,000 employees guarantee competent consultation and excellent service. Worldwide and always near you.



