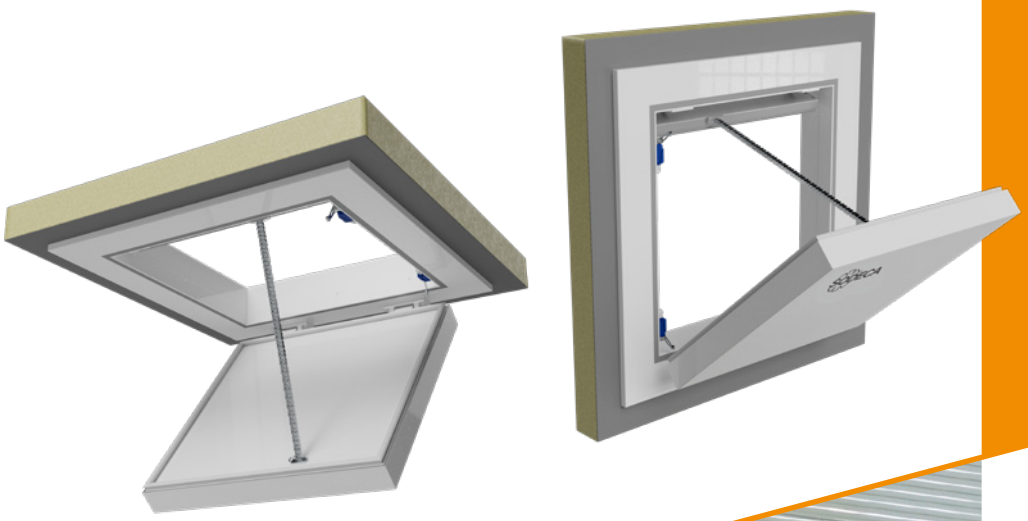
Motorised dampers that are F400 certified for cold rooms



F400 certified in accordance with EN 12101-3

Tested with damper and extract fan for smoke exhaust according to test 21/32306-460

FRIDGE/FLAP

- High performance in airtightness and insulation
- Suitable for temperatures down to -28°C
- Operational reliability in excess of 11,000 cycles

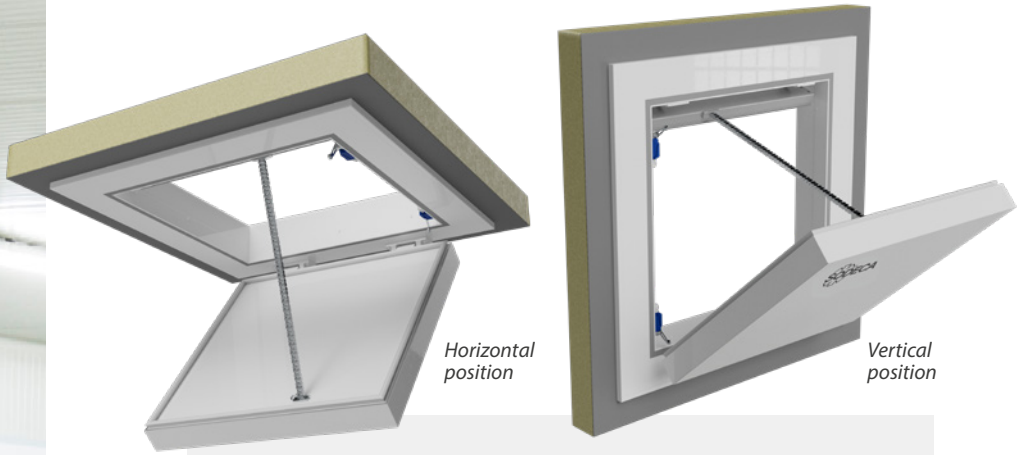
F400

In accordance with standard EN 12101-3

FRIDGE/FLAP

F400-certified motorised dampers for installations with extract fans for smoke exhaust in cold rooms

In accordance with standard EN 12101-3



Horizontal position

Vertical position

F400 certified in accordance with EN 12101-3

Tested with damper and extract fan for smoke exhaust according to test 21/32306-460

Reliability

Chain actuator with an operational reliability of more than 11,000 cycles and an opening and closing time of 30 seconds.

Opening

Motorised opening, with manual opening system in case of failure (Utility model ES 1 259 375 U).

Signalling

Limit switches with voltage-free contacts for monitoring whether the damper is open or closed.

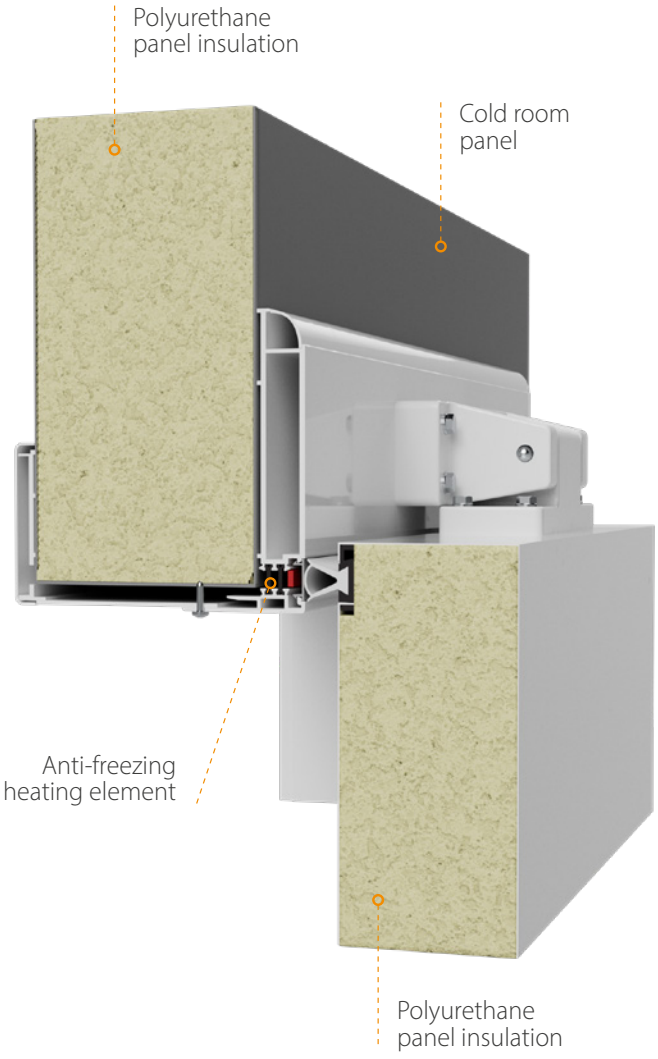
Insulation

The damper leaf is made of lacquered sheet steel with expanded polyurethane and injected in a class B press according to UNE-EN 13501, with a total insulation thickness of 90 mm.

The perimeter profiles of both the damper leaf and the fixed frame are made of aluminium and incorporate a thermal break. This reduces the thermal transmittance to 0.2 W/m^2 K.

F400 certified in accordance with EN 12101-3

Tested with damper and extract fan for smoke exhaust according to test 21/32306-460



Airtightness

The double air chamber perimeter seal provides Class D airtightness in accordance with EN 12207.

Anti-freezing protection

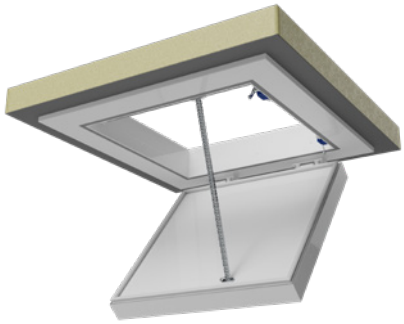
To prevent the airtightness seal from freezing and the damper from becoming jammed, the frame is fitted with a 40 W/m heating element around the perimeter to prevent the formation of ice.

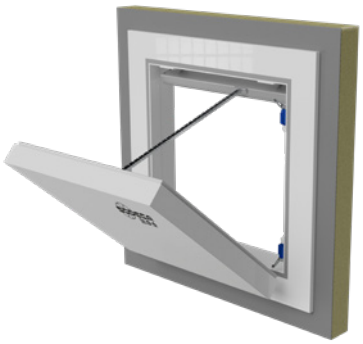
Installation

Suitable for cold rooms (>4°C) and freezers (from 4°C to -28°C).

FRIDGE/FLAP

F400 motorised flaps for smoke evacuation in cold rooms





Motorised flaps for smoke evacuation in case of fire. Specially designed to be installed in cold or even frozen chambers with excellent thermal and sealing performance. Homologation of mechanical smoke extractor accessory according to standard EN 12101-3, with F400 and F300 certification.

Characteristics:
- Flaps approved as a smoke extractor accessory according to EN 12101-3.
- 90 mm class B injected polyurethane insulation according to UNE-EN 13501.
- Thermal resistance of the assembly less than 0.20 W/m²·K.
- Aluminum profile with thermal bridge break.
- Double air chamber perimeter seal.
- 40 W/m heating resistance to prevent the sealing joint from freezing.
- Suitable for cold rooms (>4 °C) and freezing rooms (from 4 °C to -28 °C).
- Limit switches in both positions (open and closed).
- Manual opening system (Utility model ES 1 259 375 U).
- Possibility of horizontal or vertical installation.
- Opening time 30 seconds.

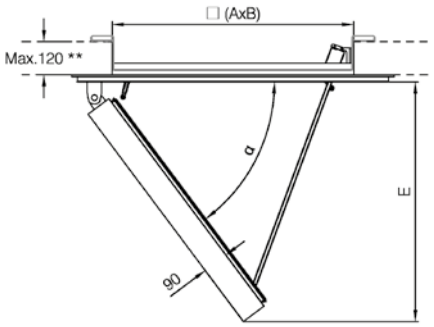
Actuator:
- Reliability greater than 11,000 dual cycles.
- Supply voltage at 230 V AC 50/60 Hz.

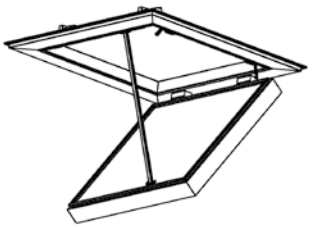
Finish:
- Anti-corrosive in extruded aluminum.
- RAL 9016 supplied as standard.
- The product is supplied with trims to finish off the opening in the sandwich panel, adaptable to any panel thickness.

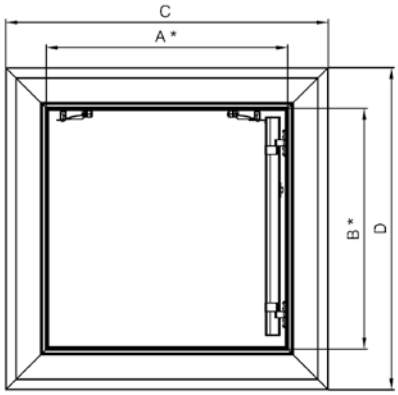
Order code

FRIDGE/FLAP	***—***	***100***
FRIDGE/FLAP: F400 motorised flaps for smoke evacuation in cold rooms		Flap size

Dimensions mm







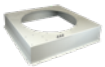
	A	B	C	D	E	α (º)	Approx. weight (Kg)
FRIDGE/FLAP-100	850	850	1125	1125	840	55	44
FRIDGE/FLAP-150	1360	1360	1635	1635	890	35	75

*AxB: Nominal panel opening dimension.
**Maximum sandwich panel thickness.

Compatibility

Flap	Smoke extractor						
FRIDGE/FLAP-100	HATCH/HP-63	THT/HATCH-63	HTMF-63	THT/ROOF-63	THT/WALL-63	THT-63	THT/CL-63
			HTMF-71	THT/ROOF-71	THT/WALL-71	THT-71	THT/CL-71
	HATCH/HP-80	THT/HATCH-80	HTMF-80	THT/ROOF-80	THT/WALL-80	THT-80	THT/CL-80
	HATCH/HP-90	THT/HATCH-90	HTMF-90	THT/ROOF-90	THT/WALL-90	THT-90	THT/CL-90
	HATCH/HP-100	THT/HATCH-100	HTMF-100	THT/ROOF-100	THT/WALL-100	THT-100	THT/CL-100
FRIDGE/FLAP-150		THT/HATCH-125	HTMF-125	THT/ROOF-125	THT/WALL-125	THT-125	THT/CL-125

Accessories



MT

External frame for duct connection

BTUB

Coupling flange for axial fans

For installations with duct, the accessory is necessary MT + BTUB

Fan size	Accessories MT	Accessories BTUB
63	MT-63	BTUB-630
71	MT-71	BTUB-710
80	MT-80	BTUB-800
90	MT-90	BTUB-900
100	MT-100	BTUB-1000
125	MT-125	BTUB-1250

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