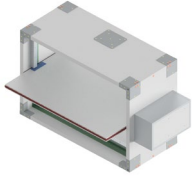


> mcr FID B	> mcr DOR	> mcr WIP PROV/ mcr WIP PROV/V-M	> mcr WIP LD
			
Smoke exhaust + Comfort ventilation EN 12101-8 / EN 1366-10 / EN-13501-4 001-05-CPR-2021	Smoke exhaust EN 12101-8 / EN 1366-10 / EN-13501-4 002-05-CPR-2022	Smoke exhaust + Comfort ventilation EN 12101-8 / EN 1366-10 / EN-13501-4 01-06-CPR-2024	Smoke exhaust + Comfort ventilation EN 12101-8 / EN 1366-10 / EN-13501-4 001-05-CPR-2022
Rectangular single - blade	Rectangular door	Rectangular multi - blade	Rectangular multi - blade
200x200 ÷ 1200x800 [mm]	480x380 ÷ 1330x1330 [mm]	110x270 ÷ 1200x2300 [mm]	300x600 ÷ 1100x2300 [mm]
Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Mechanism spring loaded with fuse trigger	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Bi-directional actuator type BE, BEE, BEN (24V or 230V)
C	C	C	C
min. 2	min. 2	min. 2	min. 2
X	X	X	X
Fireproof boards + galvanised steel	Fireproof boards + galvanised steel	Fireproof boards + galvanised steel, coating ZN optional: stainless steel or 1.4404 acid proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel

EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti (in the distance)	EI180(v _{ed} i↔o)S1500 C ₃₀₀ AAmulti (in the distance)	EI120 (v _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti ⁱⁱ	EI120 (v _{ev} i↔o)S1000 C ₁₀₀₀₀ AAmulti
–	–	–	125 mm
EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti (in the distance)	EI180(v _{ed} i↔o)S1500 C ₃₀₀ AAmulti (in the distance)	EI120 (v _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120 (v _{ev} i↔o)S1000 C ₁₀₀₀₀ AAmulti
–	–	–	125 mm
EI120(v _{ed} h _{ed} i↔o)1500 C ₁₀₀₀₀ MAmulti (in the distance)	X	X	X
–	X	X	X
✓	X	✓	X
X	damper next to damper, damper over damper	damper next to damper, damper over damper	X
✓	X	X	X
✓	–	✓	X
vertical and horizontal position: EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti	vertical position: EI180(v _{ed} i↔o)S 1500 C ₃₀₀ AAmulti	EI120 (v _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	X
vertical and horizontal position: EI120(v _{ed} h _{ed} i↔o)S1500 C ₁₀₀₀₀ MAmulti	vertical position: EI180(v _{ed} i↔o)S 1500 C ₃₀₀ AAmulti	EI120 (v _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	X
–	–	–	200 mm (acc. to norm)
N/A	N/A	N/A	N/A
–	–	–	75 mm
10 000	300	10 000	10 000
✓	✓	✓	✓



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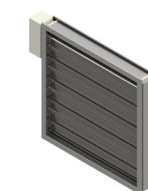
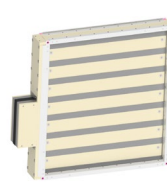
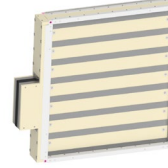


PRODUCT BROCHURE

FIRE AND SMOKE CONTROL DAMPERS

FIRE DAMPERS

SMOKE CONTROL DAMPER

Damper type	> mcr FID PRO	> mcr FID S/S p/O	> mcr FID S/S c/P	> mcr FID S/S p/P	> mcr FID 240L	> mcr WIP/S	> mcr WIP PRO/S	> mcr FID WING	> mcr ZIPP	> mcr WIP/T	> mcr WIP PRO/T	> mcr WIP PRO/V/ mcr WIP PRO/V-M	> mcr FID S/V p/P mcr FID S/V-M p/P	
														
Properties														
Type of installation / application CE Standards / fire resistance / fire classification	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Comfort ventilation EN 15650 / EN 1366-2 / EN 13501-3	Transfer damper EN 15650 / EN 1366-2 / EN 13501-3	Transfer damper EN 15650 / EN 1366-2 / EN 13501-3	Smoke exhaust + Comfort ventilation EN 12101-8 / EN 1366-10 / EN 13501-4	Smoke exhaust + Comfort ventilation EN 12101-8 / EN 1366-10 / EN 13501-4
Declaration of performance	003-05-CPR-2015	004-05-CPR-2015	006-05-CPR-2015	004-05-CPR-2015	001-05-CPR-2025	001-05-CPR-2015	009-05-CPR-2016	002-05-CPR-2021	002-05-CPR-2015	001-05-CPR-2015	009-05-CPR-2016	010-05-CPR-2016	001-05-CPR-2018	
Damper type	Low resistance rectangular single - blade	Circular single - blade	Low resistance rectangular single - blade	Rectangular multi - blade	Rectangular single - blade	Rectangular multi - blade	Rectangular multi - blade	Butterfly damper	Round valve	Rectangular multi - blade	Rectangular multi - blade	Rectangular multi - blade	Rectangular single - blade	
Dimensions	D100 ÷ D315 [mm]	D125 ÷ D630 [mm]	for v _e i h _o : 100x100 ÷ 800x400 [mm] for v _e : 100x100 ÷ 1000x800 [mm]	200x200 ÷ 1500x1200 [mm] 200x200 ÷ 1200x1500 [mm] maximum damper's cross- section: 1,8 m²	200x200 ÷ 1050x1000 [mm]	120x160 ÷ 1000x1000 [mm] (Except dampers whose height ends in a dimension between 36 and 54, e.g. 136-154, 236-254...)	for v _e : 110x270 ÷ 900x1250 [mm] for h _o : 110x270 ÷ 1000x1000 [mm]	D100, D125, D160, D200 [mm]	D100, D125, D160, D200 [mm]	120x160 ÷ 1000x1000 [mm] (Except dampers whose height ends in a dimension between 36 and 54, e.g. 136- 154, 236-254...)	110x270 ÷ 900x1250 [mm]	horizontal axis of rotation (v _{ew} and v _{edw}): 110x263 ÷ 900x1250 [mm] vertical axis of rotation (v _{ew}): 110x263 ÷ 1250x1250 [mm] horizontal axis of rotation (v _{ew} , h _{ed}): 110x263 ÷ 1250x1250 [mm]	200x200 ÷ 1500x1000 [mm] 200x200 ÷ 1000x1500 [mm] maximum damper's cross- section: ≤1,5m²	
Trigger and control mechanism	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF, MLF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF, MLF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism KW1/S RST option -electromagnetic trigger	Mechanism spring loaded with fuse trigger	Mechanism spring loaded with fuse trigger (74°C or 95°C) RST option -electromagnetic trigger	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V)	Actuator with thermal trigger (72°C or 95°C) type BFL, BFN, BF (24V - 230V) Mechanism KW1/S RST option -electromagnetic trigger	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	Bi-directional actuator type BE, BEE, BEN (24V or 230V)	
Casing tightness class [A/B/C] acc. to PN-EN 1751	C	C	C	C	C	C	C	–	–	C	C	C	C	
Damper blade tightness in closed position [1/2/3/4] acc. To PN-EN 1751	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	min. 2	
ATEX execution	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	X	X	
Casing material	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Fireproof boards + galvanised steel, coating ZN optional: stainless steel or 1.4404 acid proof steel	Painted steel	Painted steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel	Fireproof boards + galvanised steel, coating ZN optional: stainless steel or 1.4404 acid proof steel	Galvanised steel coatin. Optional: stainless steel, acid-proof steel

Installation														
Rigid walls/ shafts	Classification	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI240 (v _e i↔o) S	EI60 (v _e i↔o) S EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S EI60 (v _e i↔o) S	EI120 (v _e o→i)S EI120 (v _e i→o) EI180 (v _e o→i)S	EI120 (v _e i↔o) EI120 (v _e i↔o)	EI180 (v _e i↔o)	EI120 (v _{ev} i↔o)S1000 C ₁₀₀₀₀ AAmulti EI120 (v _{edw} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ev} i↔o)S1500 C ₁₀₀₀₀ AAmulti EI120(v _{edw} i↔o)S1000 C ₁₀₀₀₀ AAmulti
	Min. partition thickness	120 mm/125 mm	110 mm	120 mm/125 mm	110 mm	150 mm	120 mm	120 mm	100 mm 100 mm	110 mm	120 mm	120 mm	125 mm	120 mm
Light-weight walls/ shafts	Classification	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S	X	X	EI120 (v _e i↔o) S	EI120 (v _e i↔o) S EI60 (v _e i↔o) S	EI120 (v _e o→i)S EI120 (v _e i→o) EI180 (v _e o→i)S	X	EI180 (v _e i↔o)	EI120 (v _{ev} i↔o)S1000 C ₁₀₀₀₀ AAmulti EI120 (v _{edw} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ev} i↔o)S1500 C ₁₀₀₀₀ AAmulti
	Min. partition thickness	125 mm	125 mm	125 mm	125 mm	X	X	125 mm	100 mm 100 mm	125 mm	X	125 mm	125 mm	125 mm
Cellings	Classification	EI120 (h _o i↔o) S	EI120 (h _o i↔o)S	EI120 (h _o i↔o)S	EI120 (h _o i↔o)S	X	X	EI90 (h _o i↔o) S EI120 (h _o i↔o) S	EI120 (h _o i↔o) S EI60 (h _o i↔o) S	EI120 (h _o o→i)S EI120 (h _o i→o)	X	X	EI120(h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti
	Min. partition thickness	150 mm	150 mm	150 mm	150 mm	X	X	150 mm	150 mm 100 mm	150 mm	X	X	–	–
Installation outside the vertical building partition		✓	X	X	✓	X	X	X	X	X	X	X	✓	✓
Battery assembly/Modules		–	–	X	Series assembly	X	X	X	–	–	X	X	Max. 4 dampers with dimensions: with horizontal axis of rotation: 110x270 to 1060x1025 [mm] or with vertical axis of rotation 270x110 to 960x1125 [mm]	20m²: with vertical axis of rotation, mechanism at the top or/and at the bottom of the battery - for the partition by min. thickness 120 mm
Vertical axis of rotation		✓	✓	✓	✓	X	X	X	✓	✓	✓	✓	✓	✓
Dry assembly with mineral wool		✓	X	✓	X	X	X	X	✓	X	X	X	X	X
Multi - zone		–	–	–	–	–	–	–	–	–	–	–	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti
Single - zone		–	–	–	–	–	–	–	–	–	–	–	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti	EI120(v _{ed} h _{ed} i↔o)S1000 C ₁₀₀₀₀ AAmulti
Minimum distance damper / wall		60 mm/10 mm	200 mm (acc. to norm)	30 mm	60 mm (PP)	200 mm (acc. to norm)	200 (acc. to norm)	200 (acc. to norm)	50 mm	200 mm (acc. to norm)	200 mm (acc. to norm)	200 mm (acc. to norm)	200 mm (acc. to norm) not applicable to batteries and v _{ed} featu	200 mm (acc. to norm) not applicable to batteries and v _{ed} featu
Minimum distance damper / partition		75 mm/10 mm	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (acc. to norm)	75 mm (not applicable to v _{ed} feature)	75 mm (not applicable to v _{ed} feature)
Minimum distance damper / ceiling		75 mm/10 mm	75 mm	20 mm	75 mm	75 mm	75 mm	75 mm	75 mm	75 mm	75 mm	75 mm	–	75 mm
Operating life cycles		10 000	50	10 000	10 000	10 000	10 000	10 000	50	50	10 000	10 000	10 000	10 000
Certified installation with a masking grille		–	–	–	–	–	–	–	– / Anemostat	✓	✓	✓	✓	✓