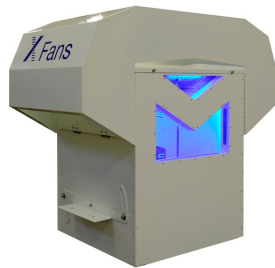




EK-JZ



**BVDAX FOR SMOKE
EXTRACT IN
COMBINATION WITH A
FREQUENCY INVERTER**

BVDAX for smoke extraction operation with frequency inverter, CE-certified according to EN12101-1 Temperature category F400



**WITH TROXNETCOM AS
AN OPTION**

With TROXNETCOM as an option



**FOR MECHANICAL SMOKE
EXTRACT SYSTEMS AND
PRESSURISATION
SYSTEMS**

For mechanical smoke extract systems and pressurisation systems



**MAXIMUM PERFORMANCE
WITH MAXIMUM SIZE B =
1.20 M, H = 2.03 M**

Maximum size, maximum performance

B = 1.20 m, H = 2.03 m

TYPE EK-JZ



**FOR USE IN MECHANICAL SMOKE EXTRACT SYSTEMS,
PRESSURISATION SYSTEMS, AND NATURAL SMOKE
AND HEAT EXHAUST SYSTEMS, ALSO FOR USE AS AN
ADDITIONAL SUPPLY AIR INLET**

Rectangular smoke control dampers with ventilation function, low installation depth and large cross section for heat and smoke exhaust with mechanical smoke extract systems, for the provision of additional supply air and for use in pressurisation systems

- Nominal sizes 200 × 430 – 1200 × 2030 mm, for smoke gas flow rates up to 87700 m³/h or 24360 l/s at 10 m/s
- Quick and easy installation in or on building structures, for smoke and heat exhaust, remote control with an actuator
- Casing, damper blades and actuator encasing made of temperature-resistant calcium silicate
- Fulfills pressure level 2 (operating pressure -1000 to 500 Pa)
- Automatic release (AA), option of manual override (MA)
- For smoke extract ducts from 35 mm wall thickness
- C_{mod} = for the smoke extract and ventilation function in combined systems and thus pneumatic volume flow rate balancing via the selection of intermediate positions
- Closed blade air leakage to EN 1751, class 3
- Casing air leakage to EN 1751, class C

Optional equipment and accessories

- Cover grille (various constructions)
- Connecting subframe for calcium silicate and sheet steel smoke extract ducts
- Integration into the central BMS with TROXNETCOM
- Coating for use in exterior walls
- Modulation control for selection of desired damper blade positions
- Installation accessories



MINIMUM LEAKAGE WITH BOTH HIGH AND LOW TEMPERATURES DUE TO TWO-LEVEL SEALING SYSTEM

Minimum leakage with both high and low temperatures due to two-level sealing system

General Information ▼

Application

- Smoke control damper of Type EK-JZ, with CE marking and declaration of performance, for heat and smoke exhaust with mechanical smoke extract systems
- Can be used for the provision of fresh air (additional supply air) to mechanical smoke extract systems
- Can be used in pressurisation systems
- Can be used for ventilation if the mechanical smoke extract system has been certified (general building inspectorate licence) for use with combined systems
- Integration into the central BMS with TROXNETCOM

Special characteristics

- C_{mod} for the smoke extract and ventilation function in combined systems and thus pneumatic volume flow rate balancing via the selection of intermediate positions
- Complies with the requirements of EN 12101-8
- Tested to EN 1366-2 and 1366-10 for fire resistance properties
- Closed blade air leakage to EN 1751, class 3, and casing air leakage to EN 1751, class C
- Low sound power level and differential pressure
- Any airflow direction
- Manual release is also possible using TROXNETCOM
- Integration into the central BMS with standard bus systems
- Long-time testing to EN 1366-10, with 20000 OPEN/CLOSE cycles

Classification

• EI 120/90 (V_{edw} i↔o) S1000 Cmod HOT400/30 MA multi

Nominal sizes

- 200 × 430 – 1200 × 2030 mm
- Casing lengths L = 250 mm

Parts and characteristics

- Airflow direction is not critical
- Fulfills pressure level 2 (operating pressure -1000 to 500 Pa)
- For automatic and manual release
- Smoke control damper with ventilation function

Attachments 1

- Connecting subframe for calcium silicate and sheet steel smoke extract ducts
- Cover grille – crimped wire mesh or square perforated metal plate
- Cover grille – grille with straight or slanted blades

Attachments 2

- Open/Close actuators with 24 V AC/DC or 230 V AC supply voltage
- Network modules for the integration with AS-i networks
- Network modules for other standard bus systems

Optional products

TROXNETCOM

- X-FANS control unit extract air and smoke extract control

TROX-X smoke exhaust fans from the X-FANS subassembly

- Smoke exhaust fan for roof installation BVDAX/ BVD
- Smoke exhaust fan for wall installation BVW/ BVWAXN
- Smoke exhaust centrifugal fan BVREH /BVRA
- Smoke extract jet fans BVGAX/BVGAXN

All smoke exhaust fans are tested to EN 12101-3, for F200/F300/F400 and F600, depending on the type. With CE marking, declaration of performance and application approval for the German market.

Speed adjustment on smoke exhaust fans

- Certified frequency inverter unit X-FANS control

Safe and precise speed adjustment of smoke exhaust fans both in one-zone and in multi-zone systems.

Construction features

- Rectangular construction
- Smoke control damper actuator controlled by reversible open/close actuator
- Remote control with actuator
- Suitable for the connection of cover grilles or connecting subframes

Materials and surfaces

- Casing, damper blade and actuator encasing made of calcium silicate
- Brass bearings
- Blade shafts, drive arm and shaft bearing made of galvanised steel

Standards and guidelines

- Construction Products Regulation
- EN 12101-8 Smoke and heat control systems – Smoke control dampers
- EN 1366-10 Fire resistance tests for service installations – Smoke control dampers
- EN 1366-2 Fire resistance tests for service installations – Fire dampers
- EN 13501-4 Fire classification of construction products and building elements using data from fire resistance tests
- EN 1751 Ventilation for buildings – Air terminal devices

Maintenance

Smoke control dampers must be operational at all times and must be maintained regularly so that they provide the required services.

- Maintenance is required at least every 6 months
- A maintenance report must be created; documents must be kept for reference
- The functional reliability of the smoke control damper must be tested at least every six months; this has to be arranged by the owner of the smoke extract system; functional tests must be carried out in compliance with the basic maintenance principles stated in EN 13306 and DIN 31051. If two consecutive tests, one 6 months after the other, are successful, the next test can be conducted one year later.
- Depending on where dampers are installed, country-specific regulations may apply.
- For details on maintenance and inspection refer to the installation and operating manual

Description



Nominal sizes

- 200 × 430 – 1200 × 2030 mm
- Casing lengths L = 250 mm

Attachments 1

- Connecting subframe for calcium silicate and sheet steel smoke extract ducts
- Cover grille – crimped wire mesh or square perforated metal plate
- Cover grille – grille with straight or slanted blades

Attachments 2

- Open/Close actuators with 24 V AC/DC or 230 V AC supply voltage
- Network modules for the integration with AS-i networks
- Network modules for other standard bus systems

TECHNICAL INFORMATION

Function, Technical data, Quick sizing, Specification text, Order code



Smoke control dampers are used in mechanical smoke extract systems.

They are used for extracting smoke gases and for providing additional supply air to one or more fire compartments.

The dampers are made of calcium silicate panels and are opened by an encased actuator; when smoke is detected, the actuator is triggered by a signal either from a duct smoke detector or from a fire alarm system.

Smoke control dampers have two safe positions: open and closed.

In the case of fire-resistant smoke control dampers for multiple compartments, the safe position is either 'open' or 'closed', depending on the fire site and the path of the smoke to be extracted.

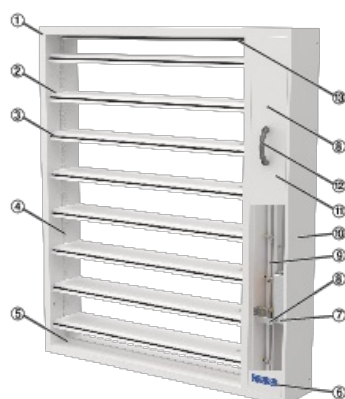
If the safe position is 'open', the free area must be maintained even in the event of a fire.

The blades of EK-JZ move to the defined safe position upon receiving an automatically or manually triggered control signal. According to the specified time-temperature curve, an EK-JZ can still fully open or close after 25 minutes (MA, manual release).

Similarly, position changes for modulation applications (C_{mod}) and thus pneumatic volume flow rate balancing via the section of intermediate positions of the damper blade section are possible with the product type EK-JZ.

Regular maintenance of the smoke control damper is required to ensure its functional reliability.

Schematic illustration



- ① Casing
 - ② Blades
 - ③ Blade tip seal (special profile seal)
 - ④ Side seal
 - ⑤ Travel stop, bottom
 - ⑥ Rating plate
 - ⑦ Actuator
 - ⑧ Cover fixing
 - ⑨ Linkage
 - ⑩ Actuator encasing
- Cover of the actuator encasing (sectional view)
Handle (to remove the cover)
Travel stop, top

Nominal sizes W x H	200 x 430 mm – 1200 x 2030 mm
Casing length	250 mm
Volume flow rate range	Up to 24361 l/s or 87700 m ³ /h
Differential pressure range	Pressure level 2: -1000 – 500 Pa
Operating temperature	-30 to 50 °C; the temperature should not fall below the dew point
Upstream velocity*	≤ 10 m/s with the largest size, > 10 – 15 m/s with smaller sizes; 87700 m ³ /h max.

* Data applies to uniform upstream and downstream conditions for the smoke control damper

No. of blades, cross section and sound reduction index, height 430, 630 mm

B	H	n	①	②	③
200	430	2	0,06	0,09	37
250	430	2	0,08	0,11	36
300	430	2	0,09	0,13	36
350	430	2	0,11	0,15	35
400	430	2	0,12	0,17	34
450	430	2	0,14	0,19	34
500	430	2	0,15	0,22	33
550	430	2	0,17	0,24	33
600	430	2	0,18	0,26	33
650	430	2	0,2	0,28	32
700	430	2	0,22	0,30	32
750	430	2	0,23	0,32	32
800	430	2	0,25	0,34	31
850	430	2	0,26	0,37	31
900	430	2	0,28	0,39	31
950	430	2	0,29	0,41	31
1000	430	2	0,31	0,43	30
1050	430	2	0,32	0,45	30
1100	430	2	0,34	0,47	30
1150	430	2	0,35	0,49	30
1200	430	2	0,37	0,52	30
200	630	3	0,09	0,13	36
250	630	3	0,12	0,16	35
300	630	3	0,14	0,19	34
350	630	3	0,16	0,22	33
400	630	3	0,19	0,25	33
450	630	3	0,21	0,28	32
500	630	3	0,23	0,32	32
550	630	3	0,26	0,35	31
600	630	3	0,28	0,38	31
650	630	3	0,3	0,41	31
700	630	3	0,33	0,44	30
750	630	3	0,35	0,47	30
800	630	3	0,37	0,50	30
850	630	3	0,4	0,54	29
900	630	3	0,42	0,57	29
950	630	3	0,44	0,60	29
1000	630	3	0,47	0,63	29
1050	630	3	0,49	0,66	28
1100	630	3	0,51	0,69	28
1150	630	3	0,54	0,72	28
1200	630	3	0,56	0,76	28

Number of blades: n

① Cross section A_{Free} [m²]

② Cross section A_{geo} [m²]

③ Sound reduction index R_w [dB]

No. of blades, cross section and sound reduction index, height 830, 1030 mm

B	H	n	①	②	③
200	830	4	0,13	0,17	35
250	830	4	0,16	0,21	34
300	830	4	0,19	0,25	33
350	830	4	0,22	0,29	32
400	830	4	0,25	0,33	31
450	830	4	0,28	0,37	31
500	830	4	0,31	0,42	31
550	830	4	0,35	0,46	30
600	830	4	0,38	0,5	30
650	830	4	0,41	0,54	29
700	830	4	0,44	0,58	29
750	830	4	0,47	0,62	29
800	830	4	0,5	0,66	28
850	830	4	0,53	0,71	28
900	830	4	0,57	0,75	28
950	830	4	0,06	0,79	28
1000	830	4	0,63	0,83	27
1050	830	4	0,66	0,87	27
1100	830	4	0,69	0,91	27
1150	830	4	0,72	0,95	27
1200	830	4	0,75	1	27
200	1030	5	0,16	0,21	34
250	1030	5	0,2	0,26	33
300	1030	5	0,24	0,31	32
350	1030	5	0,28	0,36	31
400	1030	5	0,32	0,41	31
450	1030	5	0,35	0,46	30
500	1030	5	0,39	0,52	30
550	1030	5	0,43	0,57	29
600	1030	5	0,47	0,62	29
650	1030	5	0,51	0,67	28
700	1030	5	0,55	0,72	28
750	1030	5	0,59	0,77	28
800	1030	5	0,63	0,82	28
850	1030	5	0,67	0,88	27
900	1030	5	0,71	0,93	27
950	1030	5	0,75	0,98	27
1000	1030	5	0,79	1,03	27
1050	1030	5	0,83	1,08	26
1100	1030	5	0,87	1,13	26
1150	1030	5	0,91	1,18	26
1200	1030	5	0,95	1,24	26

Number of blades: n

① Cross section A_{Free} [m²]

② Cross section A_{geo} [m²]

③ Sound reduction index R_w [dB]

No. of blades, cross section and sound reduction index, height 1230, 1430 mm

B	H	n	①	②	③
200	1230	6	0,19	0,25	33
250	1230	6	0,24	0,31	32
300	1230	6	0,28	0,37	31
350	1230	6	0,33	0,43	30
400	1230	6	0,38	0,49	30
450	1230	6	0,43	0,55	29
500	1230	6	0,47	0,62	29
550	1230	6	0,52	0,68	28
600	1230	6	0,57	0,74	28
650	1230	6	0,62	0,80	28
700	1230	6	0,66	0,86	27
750	1230	6	0,71	0,92	27
800	1230	6	0,76	0,98	27
850	1230	6	0,81	1,05	26
900	1230	6	0,85	1,11	26
950	1230	6	0,90	1,17	26
1000	1230	6	0,95	1,23	26
1050	1230	6	1,00	1,29	26
1100	1230	6	1,04	1,35	25
1150	1230	6	1,09	1,41	25
1200	1230	6	1,14	1,48	25
200	1430	7	0,22	0,29	32
250	1430	7	0,28	0,36	31
300	1430	7	0,33	0,43	30
350	1430	7	0,39	0,50	30
400	1430	7	0,44	0,57	29
450	1430	7	0,50	0,64	29
500	1430	7	0,55	0,72	28
550	1430	7	0,61	0,79	28
600	1430	7	0,66	0,86	27
650	1430	7	0,72	0,93	27
700	1430	7	0,78	1,00	27
750	1430	7	0,83	1,07	26
800	1430	7	0,89	1,14	26
850	1430	7	0,94	1,22	26
900	1430	7	1,00	1,29	26
950	1430	7	1,05	1,36	25
1000	1430	7	1,11	1,43	25
1050	1430	7	1,16	1,50	25
1100	1430	7	1,22	1,57	25
1150	1430	7	1,27	1,64	25
1200	1430	7	1,33	1,72	24

Number of blades: n

① Cross section A_{Free} [m²]

② Cross section A_{geo} [m²]

③ Sound reduction index R_w [dB]

No. of blades, cross section and sound reduction index, height 1630, 1830 mm

B	H	n	①	②	③
200	1630	8	0,25	0,33	32
250	1630	8	0,32	0,41	31
300	1630	8	0,38	0,49	30
350	1630	8	0,44	0,57	29
400	1630	8	0,51	0,65	29
450	1630	8	0,57	0,73	28
500	1630	8	0,63	0,82	28
550	1630	8	0,70	0,90	27
600	1630	8	0,76	0,98	27
650	1630	8	0,82	1,06	26
700	1630	8	0,89	1,14	26
750	1630	8	0,95	1,22	26
800	1630	8	1,01	1,30	26
850	1630	8	1,08	1,39	25
900	1630	8	1,14	1,47	25
950	1630	8	1,20	1,55	25
1000	1630	8	1,27	1,63	25
1050	1630	8	1,33	1,71	24
1100	1630	8	1,39	1,79	24
1150	1630	8	1,46	1,87	24
1200	1630	8	1,52	1,96	24
200	1830	9	0,29	0,37	31
250	1830	9	0,36	0,46	30
300	1830	9	0,43	0,55	29
350	1830	9	0,50	0,64	29
400	1830	9	0,57	0,73	28
450	1830	9	0,64	0,82	28
500	1830	9	0,71	0,92	27
550	1830	9	0,79	1,01	27
600	1830	9	0,86	1,10	26
650	1830	9	0,93	1,19	26
700	1830	9	1,00	1,28	26
750	1830	9	1,07	1,37	25
800	1830	9	1,14	1,46	25
850	1830	9	1,21	1,56	25
900	1830	9	1,29	1,65	25
950	1830	9	1,36	1,74	24
1000	1830	9	1,43	1,83	24
1050	1830	9	1,05	1,92	24
1100	1830	9	1,57	2,01	24
1150	1830	9	1,64	2,10	23
1200	1830	9	1,71	2,20	23

Number of blades: n

① Cross section A_{Free} [m²]

② Cross section A_{geo} [m²]

③ Sound reduction index R_w [dB]

No. of blades, cross section and sound reduction index, height 2030 mm

B	H	n	①	②	③
200	2030	10	0,32	0,41	31
250	2030	10	0,4	0,51	30
300	2030	10	0,48	0,61	29
350	2030	10	0,56	0,71	28
400	2030	10	0,64	0,81	28
450	2030	10	0,71	0,91	27
500	2030	10	0,79	1,02	27
550	2030	10	0,87	1,12	26
600	2030	10	0,95	1,22	26
650	2030	10	1,03	1,32	25
700	2030	10	1,11	1,42	25
750	2030	10	1,19	1,52	25
800	2030	10	1,27	1,62	25
850	2030	10	1,35	1,73	24
900	2030	10	1,43	1,83	24
950	2030	10	1,51	1,93	24
1000	2030	10	1,59	2,03	24
1050	2030	10	1,67	2,13	23
1100	2030	10	1,75	2,23	23
1150	2030	10	1,83	2,33	23
1200	2030	10	1,91	2,44	23

Number of blades: n

① Cross section $A_{F,ree}$ [m²]

② Cross section A_{geo} [m²]

③ Sound reduction index R_w [dB]

- Quick sizing tables provide a good overview of the volume flow rates for different airflow velocities as well as of differential pressures
- The differential pressures shown apply to smoke control dampers without a cover grille, installation type C
- Differential pressures for smoke control dampers with a cover grille or for other installation types can be calculated with a correction factor
- Precise values based on project-specific data can be determined with our Easy Product Finder design software
- You will find the Easy Product Finder on our website

Specification text

Rectangular or square smoke control dampers to product standard EN 12101-8, tested to EN 1366-10 and EN 1366-2, for use in smoke extract systems. Smoke control dampers are not only used for the exhaust of smoke, heat and combustion products, but also for the controlled removal of dangerous and toxic fire suppression gases.

EK-JZ smoke control dampers can also be used in pressurisation systems and as pressure relief dampers in gas fire extinguishing systems. Also for extracting smoke gases and for providing additional supply air for the natural or mechanical smoke extract to one or more fire compartments and in all listed systems of the same type that need to fulfil modulation applications.

EK-JZ can be used in combined smoke exhaust systems which have been approved for controlled ventilation. The fire-resistant smoke control damper for multiple compartments is suitable for installation in and on fire-resistant smoke extract ducts or smoke extract shafts and in fire-resistant standard supporting constructions. It is controlled with open/close actuators that can be combined with control modules that are factory wired and fitted inside the temperature-resistant actuator encasing.

Classification

EI 120/90 (vedw i→o) S1000 Cmod HOT400/30 MA multi

Special characteristics

- Cmod for the smoke extract and ventilation function in combined systems and thus pneumatic volume flow rate balancing via the selection of intermediate positions
- Complies with the requirements of EN 12101-8
- Tested to EN 1366-2 and 1366-10 for fire resistance properties
- Closed blade air leakage to EN 1751, class 3, and casing air leakage to EN 1751, class C
- Low sound power level and differential pressure
- Any airflow direction
- Manual release is also possible using TROXNETCOM
- Integration into the central BMS with standard bus systems
- Long-time testing to EN 1366-10, with 20000 OPEN/CLOSE cycles

Materials and surfaces

- Casing, damper blade and actuator encasing made of calcium silicate
- Brass bearings
- Blade shafts, drive arm and shaft bearing made of galvanised steel

Technical data

- Nominal sizes B × H: 200 × 430 mm – 1200 × 2030 mm
- Casing length: 250 mm
- Volume flow rate range: up to 24361 l/s or up to 87700 m³/h
- Differential pressure range: pressure level 2: -1000 to 500 Pa
- Operating temperature: -30 °C to 50 °C; the temperature should not fall below the dew point
- Upstream velocity*: ≤ 10 m/s with the largest dimensions, > 10 – 15 m/s with smaller dimensions; 87700 m³/h max.* Data applies to uniform upstream and downstream conditions for the smoke control damper

Attachments

- Connecting subframe and cover grille for the operating side and/or installation side.
- Connecting subframe for calcium silicate and sheet steel smoke extract ducts
- Cover grille – crimped wire mesh or square perforated metal plate
- Cover grille – external weather louvre or ventilation grille

Open/Close actuators for the control of smoke control dampers, with automatic (AA) or manual release (MA). Optional control or communication module for integration with the central BMS.

- Supply voltage 24 V AC/DC or 230 V AC
- Limit switches for capturing the end positions OPEN and CLOSED
- Override control for up to 25 minutes
- Module for the control of smoke control dampers (optional)
- Indicator lights for indicating the damper blade position
- Monitoring of signal reception

Sizing data

- q_v _____ [m³/h]
- Δp_{st} _____ [Pa]

Air-regenerated noise

- L_{PA} _____ [dB(A)]

EK-JZ - R - C1 / DE / 1200 x 2030 / EGS / A0 / B24A
 | | | | | | | | |
 1 2 3 4 5 6 7 8

1 Type

EK-JZ Smoke control damper

2 Actuator encasing as seen from the operating side

R = On the right (as standard)

L = Left

3 coating

No entry = none

C1 = Promat SR impregnation

4 Country of destination

DE Germany

Other destination countries upon request

5 Nominal size [mm]

B x H

6 Accessories 1

EG = fibre paper bottom (standard)

EGS = bottom and side

MA = fixing tab

EGSMA = possible

(E = Étanchéité)

(S = site)

(G = ground)

7 Attachments 1

No entry: none

F0, 0F, FF Connecting subframe, galvanised steel Cover grilles

A0, 0A, AA Crimped wire mesh, 20 x 20, galvanised steel

B0, 0B, BB Square perforated metal plate, 10 x 10, galvanised steel

C0, 0C, CC Grille with slanted blades made of aluminium

D0, 0D, DD Grille with slanted blades, aluminium, additionally with crimped wire mesh, 20 x 20, galvanised steel

E0, 0E, EE Grille with slanted blades, aluminium, additionally with welded wire mesh, 6 x 6 mm, galvanised steel Sign 1 defines operator side, Sign 2 defines installation side, Example: FA: Connecting subframe on the operating side, crimped wire mesh on the installation side Any combination is possible

8 Attachments 2

Belimo actuators

B24 BE 24-12; BLE 24-12, 24 V AC/DC

B230 BE 230-12; BLE 230-12, 230 V AC

Combinations of actuator and control module

B24A BE 24-12 / BLE 24-12, with AS-EM/EK, 30 V DC (AS-i)

B24AS BE24-12 / BLE 24-12, with AS-EM/SIL2, 30 V DC (AS-i)

B24BKNE BE 24-12 / BLE 24-12, with BKNE230-24

B24C BE 24-12 / BLE24-12, with BC24

B24D BE 24-12 / BLE 24-12, with BRM-10-F-ST

B230D BE 230-12 / BLE 230-12, with BRM-10-F

B24AM BE24-12 / BLE24-12, with AS-EM/M, 30V DC (AS-i), for function C_{mod}

Order example: EK-JZ-R-C1/DE/800x1030/ES/A0/B24A

Actuator encasing Operating side, on the right

Coating Impregnation

Country of destination Germany

Nominal size 800 x 1030

Accessories 1 Fibre paper, fixing tab

Attachment 1 Cover grille on the operating side

Attachment 2 24 V AC/DC with TROXNETCOM control module AS-EM/EK



L	H	B										
		200	250	300	350	400	450	500	550	600	650	
250	430	29	31	32	33	35	36	38	39	41	42	
250	630	37	39	41	43	44	46	48	50	51	53	
250	830	46	48	50	53	54	56	58	61	62	64	
250	1030	54	56	59	61	63	66	68	70	73	75	
250	1230	62	65	67	70	73	75	78	81	83	86	
250	1430	71	73	76	79	82	85	88	91	94	97	
250	1630	79	82	85	88	92	95	98	101	105	108	
250	1830	87	91	94	98	101	105	108	112	115	119	
250	2030	95	99	103	107	111	114	118	122	126	130	

Installation and commissioning

- Installation on/in concrete or masonry shaft walls
- Installation in lightweight partition walls
- Installation in shaft walls that are covered on one side
- Installation in or on tested, fire-resistant vertical or horizontal smoke extract ducts
- Installation in fire-resistant REI 90 or EI 90 walls
- For smoke extract ducts made of calcium silicate from 35 mm wall thickness
- For sheet steel smoke extract ducts
- After installation the damper must remain accessible for inspection, cleaning and repair
- Connected smoke extract ducts must have an inspection access
- Mechanical smoke extract systems require that the power supply is maintained even in the event of a fire

Smoke control dampers must be installed, connected and attached according to the operating and installation manual

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