



General information about this product

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- Example Illustrations
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Control Unit LSF7000 (and accessories)

- Control Unit LSF7000 2,5 A or LSF7000 5,0 A
- Control Unit LSF7000 10 A or LSF7000 20 A
- Accumulators
- Optical smoke detector
- LSF HSE – Break-glass unit
- CO2 – Air quality sensor
- Room temperature controller
- Ventilation key switch
- Siren
- REL65
- 7xPSB
- FAS Interface-Module

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Louvre windows and Mounting frame (and accessories)

- Louvre windows LF01L + Mounting frame MR01
- Louvre windows LF02L + Mounting frame MR02
- Louvre windows LF03L + Mounting frame MR03
- Wall anchor set

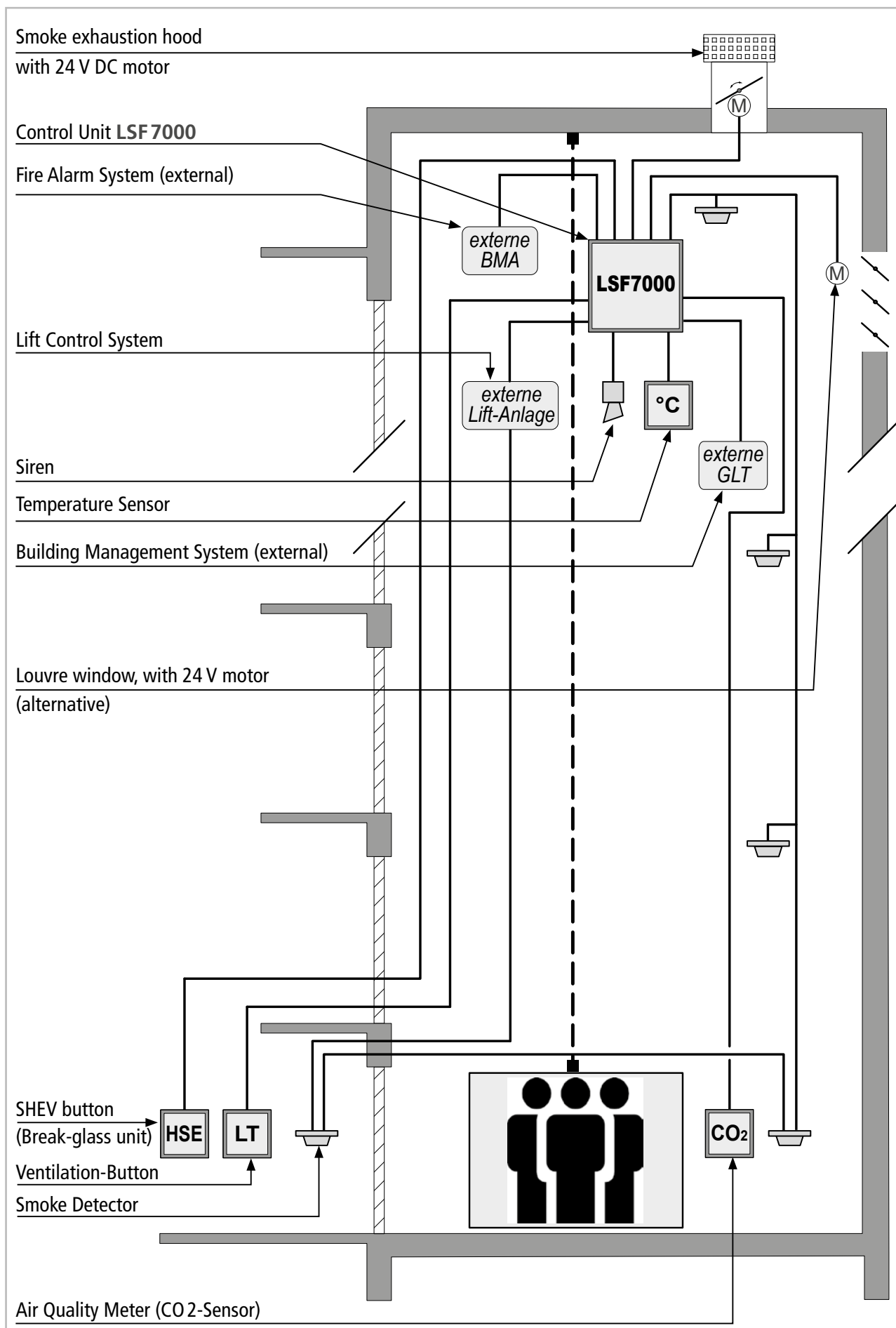
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Smoke Exhaustion Hood + Weather Protection Hood

- Smoke Exhaustion Hood EH01
- Smoke Exhaustion Hood EH03
- Smoke Exhaustion Hood EH01-thermally insulated
- Smoke Exhaustion Hood EH03-thermally insulated
- Weather Protection Hood WH01
- Weather Protection Hood WH03

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SYSTEM DESCRIPTION

Building Code and GEG

Elevator shafts are important construction phases which are subject to many requirements. Ventilation and smoke removal must be ensured in the event of a fire.

The most important requirements for the natural smoke exhaustion of lift shafts result from the respective state building regulations. The lift shaft must be ventilated and provided with smoke exhaustion openings. The smoke exhaustion openings must generally have a size equal to 2.5% of the floor area of the lift shaft, but at least 0.1 m².

With the introduction of the Building Energy Act (GEG), the permanently attached opening, as it is still frequently used today [Fig. 1], is no longer justifiable from an energy and legal point of view. A building must be constructed in such a way that the heat-transferring enclosure surface - including the joints - is permanently impermeable to air, sealed in accordance with the recognized rules of technology (GEG §13).

Therefore, the openings required by building law for the smoke removal and ventilation of the lift shaft can be sealed, if it is ensured that they are able to open for ventilation requirements or in the case of a fire.

Fire detection via smoke detector

The challenge is to detect fire smoke in the lift shaft accurately and largely without any false alarms. As long as the fire protection concept of the building does not provide otherwise, the lift shaft smoke detector according to DIN EN 54 Part 7 can be installed for fire detection, as shown in the example [Fig. 2]. With this type of design, the smoke detectors are distributed in the lift shaft in accordance with the fire protection concept or **AUMÜLLER** project planning proposal and the requirements of "general building approval" (abZ).

Manual Alarm Activation

As well as the automatic activation, it is possible to manually activate the smoke exhaust system via the SHEV button in the main access area of the lift [Fig. 3]. Further optional SHEV buttons can be used on other levels. The SHEV buttons are also used to display various alarm and operating statuses, and to reset the entire system.

Fire Control according to DIN EN 81-73

The Control Unit **LSF 7000** provides a potential-free Contact, e.g. for lift control. If the fire protection concept of the building allows it, the lift controller initiates the "evacuation run" of the lift shaft according to DIN EN 81-73 and travels to the previously determined main destination [Fig. 4]. This is usually the main access area. Here the users can leave the lift shaft. The lift control system prevents further movements until the lift is released.

Extended Static Fire Control (VDI 6017)

The system allows for the optional extended static fire control according to VDI 6017, whereby a fire in the area of the main destination stop is detected by an optional smoke detector and reported to the lift controller. The control system carries out the evacuation run to the Break-glass unit destination stop. Here, the users can leave the shaft [Fig. 5]. The lift control system prevents further trips until the lift is released.

Vertical Smoke Exhaustion via Louvre windows

The vertically installed Louvre window is a tested NSHEV according to DIN EN 12101-2. It is normally closed and is only moved to the open position by a 24 V DC motor in the event of a fire, or if ventilation is required [Fig. 6]. Aside from the two standard sizes, special sizes are also available on request. For renovations, assembly mounting frames are available for subsequent installation of Louvre windows.

Horizontal Smoke Exhaustion via Ventilation and Smoke Exhaust Hood

A stainless steel exhaust hood made from stainless steel is available for the smoke exhaustion via the roof. This is suitable if the installation of a vertical Louvre window is not possible for structural reasons [Fig. 7]. A thermally insulated Louvre window with a 24 V DC drive is integrated into the upstand of the ventilation and smoke exhaust hood as an NSHEV according to DIN EN 12101-2. The drive does not protrude into the safety area of the lift shaft. The hood has insect protection, ensures smoke exhaust regardless of wind direction and is rainproof even when open.

External Controls

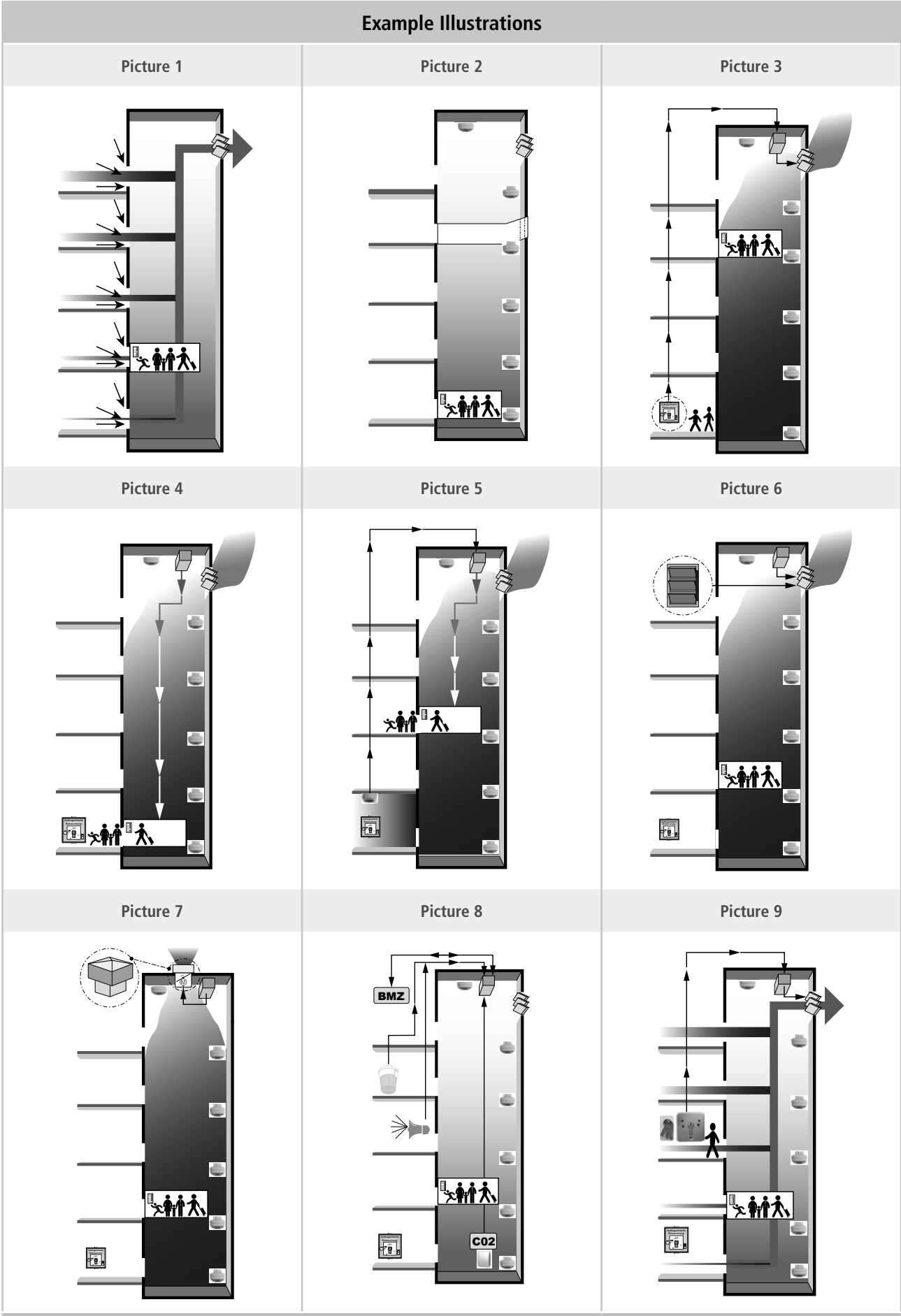
Optional visual or audible alarms can be connected directly to the Control Unit to alert residents of the building [Fig. 8]. It is possible for the connection with other fire protection systems, e.g. fire alarm systems.

Manual and Automatic Ventilation

For the ventilation of the lift shaft, the Control Unit can be controlled by authorised persons via a manual ventilation key switch [Fig. 9]. The Louvre window or the ventilation and smoke exhaust hood are opened or closed manually as required. The ventilation function can also be controlled by other building control systems or by thermostats or sensors installed in the shaft. To ensure the air quality in the lift shaft, the smoke exhaust flap can be opened via an optional CO₂ air quality sensor if necessary.

Approvals (abZ)

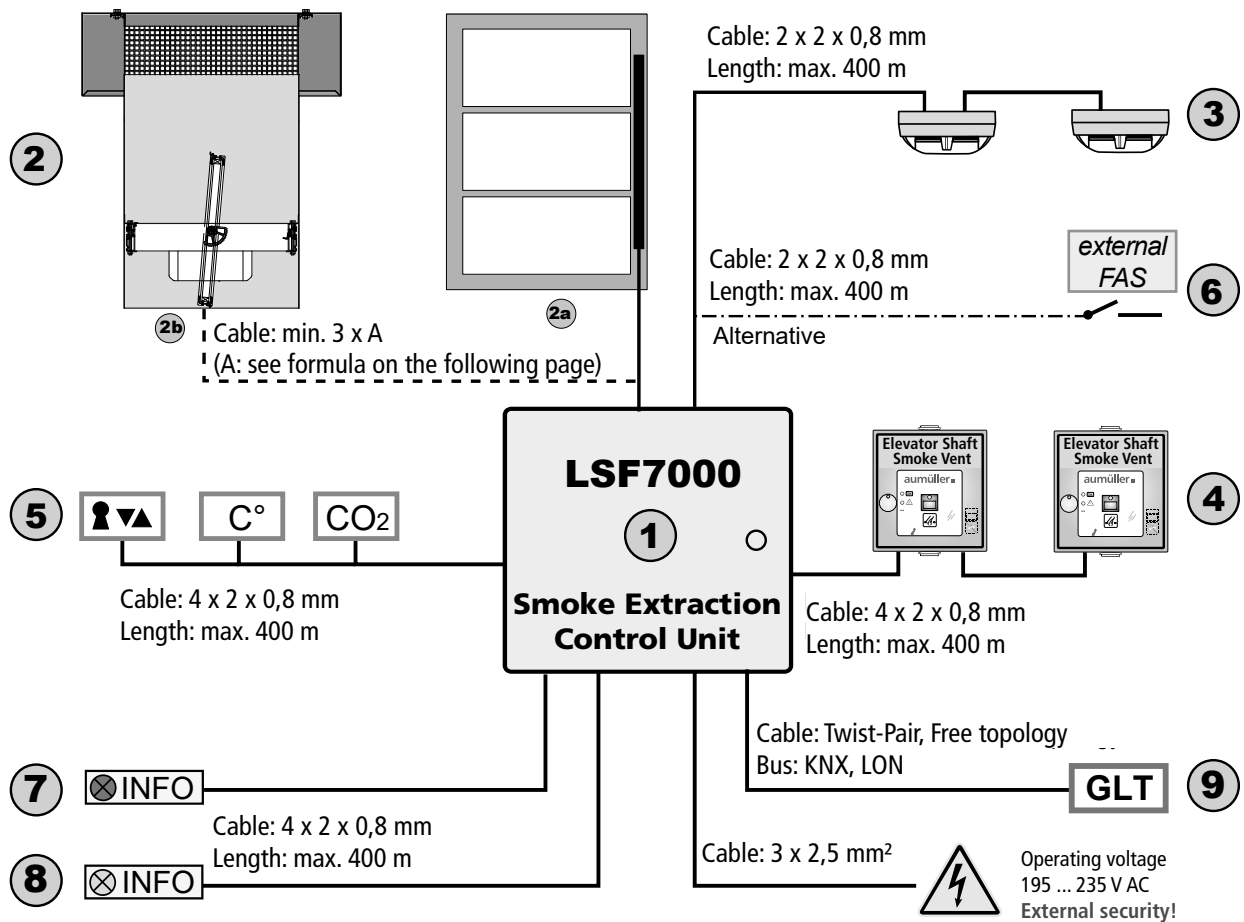
The use of a lift smoke exhaust system, which normally keeps the "smoke exhaust opening" of the lift shaft closed for the purpose of energy saving, as required by building law, requires proof of use in accordance with the model building regulations (MBO). The **LIFE-SMOKE-FREE** system possesses this proof in the form of a "general building supervision approval" (abZ).



CONNECTION OPTIONS / CABLING

2,5 A

5 A



Key

- | | |
|---|--|
| ① | Control Unit |
| ② | Drive Line 1, 24 V DC for smoke and heat exhaustion and ventilation |
| ③ | Smoke detector (max. 10 pieces) |
| ④ | Break-glass unit (HSE button) (max. 10 pieces) |
| ⑤ | Ventilation line 1 (max. 10 switches) |
| ⑥ | Trigger signal from external fire alarm system (connection alternativ) to smoke detector |
| ⑦ | External signal transmission 1 alarm triggering |
| ⑧ | External signal transmission 2 collective fault |
| ⑨ | Integration in network (additional module required) |

LIFT - SMOKE - FREE (LSF)

The natural ventilation and smoke drainage system for the elevator shaft

- ✓ High energy savings
- ✓ General building authority approval (abZ)
- ✓ requirements that can be met
- EN 81 - 20 Security policy
- EN 81 - 73 Behaviour of lifts in the event of a fire
- VDI 6017

The LSF7000 - system components:

- **Compact Control Unit** for controlling the electromotive opening device
 - Control panel compliant with prEN 12101-9
 - Power supply compliant with EN 12101-10
 - 2 detector line inputs with line monitoring
 - incl. 1 plug-in card to power external devices
 - 2 slots for relay cards for forwarding e.g. faults, etc.
 - 1 slot for BUS network cards (LON, KNX)
 - Clear display and control elements
 - Cable feed from above, from below or from behind
 - incl. complete battery set for emergency power supply (72 hours)
 - activated timer opens all approx. 8 hours for 10 minutes the connected opening device
- **Optical smoke detectors** in the shaft automatically opens the connected opening device when smoke is detected
- **Break-glass unit** for manual triggering (outside the shaft) of the EMERGENCY-OPEN function in the Compact Control Unit
- **CO2 - Air quality sensor** for automatic measurement of the CO2 content in the lower shaft area (adjustable CO2 switching range of the sensor)
- **Room thermostat** for automatic measurement of the room temperature in the shaft (adjustable temperature switching range of the sensor)
- **Ventilation key switch** for manual operation of the motor opening device in the shaft
- **Motorized opening device** (optionally for horizontal and vertical installation)

ORDER DATA

Control Unit LSF7000 2,5A or LSF7000 5,0A

Application: Control Unit for SHEV systems for „lift shaft smoke exhaustion“ with smoke detection by means of smoke detectors.



TECHNICAL DATA (Rated values)

Operating voltage, primary:	195.....253 V AC
Frequency:	50....60 Hz
Rated current (secondary) / Current consumption (primary):	Version 2,5A: 2,5 A / 0,3 A Version 5,0A: 5,0 A / 0,6 A
Output voltage drives:	24 V DC (20 – 28 V DC / 2 Vpp)
Ambient temperature range:	-5°C ... + 40°C (EN 12101 Klasse 1)
Maximum relative humidity:	75 % (Average value over the entire service life) 90 % (for a maximum of 96 hours)
Housing:	Surface mounted, painted sheet steel in RAL 7035
Protection rating:	IP30
Dimensions (WxHxD):	225 x 285 x 122 mm

Feature/Equipment

- Including 2 maintenance-free emergency power accumulators **2x 12 V / 2,3 Ah**
- Including accumulator holder
- Including 1 Plug-in card **7xPSB** for the power supply of external devices such as .B siren / flash light
- Activated timer opens all approx. 8 hours for 10 minutes the connected ventilation flap
- Including 2 Plug-in cards REL65 for external signal transmission

VERSIONS

LSF7000 2,5 A 0101	511220			
LSF7000 5,0 A 0101	511221			

Control Unit LSF7000 10,0A or LSF7000 20,0A

Application: Control Unit for SHEV systems for „lift shaft smoke exhaustion“ with smoke detection by means of smoke detectors.



TECHNICAL DATA (Rated values)

Operating voltage, primary:	195.....253 V AC
Frequency:	50....60 Hz
Rated current (secondary) / Current consumption (primary):	Version 10A: 10 A / 1,2 A Version 20A: 20 A / 2,5 A
Output voltage drives:	24 V DC (20 – 28 V DC / 2 Vpp)
Ambient temperature range:	-5°C ... + 40°C (EN 12101 Klasse 1)
Maximum relative humidity:	75 % (Average value over the entire service life) 90 % (for a maximum of 96 hours)
Housing:	Surface mounted, painted sheet steel in RAL 7035
Protection rating:	IP40 IP54 with optional wall mounting brackets / seals
Dimensions (WxHxD):	Version 10A: 400 x 300 x 150 mm Version 20A: 400 x 400 x 200 mm

Feature/Equipment

- Including 2 maintenance-free emergency power accumulators **2x 12 V / 7 Ah**
- Including accumulator holder
- Including 1 Plug-in card **7xPSB** for the power supply of external devices such as .B siren / flash light
- Activated timer opens all approx. 8 hours for 10 minutes the connected ventilation flap
- Including 2 Plug-in cards REL65 for external signal transmission

VERSIONS

LSF7000 10 A 0101	511223			
LSF7000 20 A 0102	511225			

ORDER DATA

Part.-No.				
Accumulators				
Application: Maintenance of standby operation of SHEV control units over a period of 72 hours of main power supply loss.				

**TECHNICAL DATA**

Type:	Lead storage battery
Output voltage:	12 V DC
Capacity:	see order data
Lifetime:	4 years (normal conditions)
Connections:	1,2 – 12 Ah: blade terminals 4,8 mm 17 – 38 Ah: screw terminals M5
Housing:	plastic, impact- and break-resistant

Feature/Equipment

- Maintenance free operation, long lasting durability, high charging performance and long-cycle stability
- Disposal due to local, national or international rules (WEEE)

NOTE: Always 2 batteries are required per control unit!

VERSIONS

for control units with backup power supply				
1 Pcs.	2,2/2,3 Ah, 12 V	541000		
1 Pcs.	7 Ah, 12 V	542000		

ORDER DATA

Optical smoke detector

Application: Smoke detector for the automatic early detection of fire for controlling of the **EMERGENCY-OPEN** function via a detector line of Control Units, with smoke generation in the monitored area.



TECHNICAL DATA (Rated values)

Measuring element:	Photo electric / scattered light principle
Operating voltage:	8,5 – 33 V DC
Standby current:	< 100 µA
Housing:	Surface mounting, plastic (ABS), pearl white
Dimensions (WxHxD):	Ø100 x 50 mm
Connections:	Screw terminals 1,0 mm² (rigid wire)
Protection rating:	IP23D
Display:	Alarm triggered

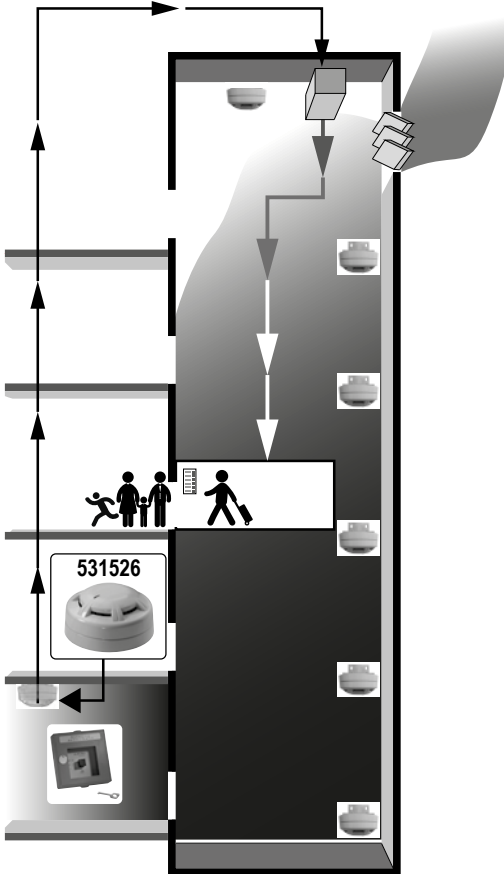
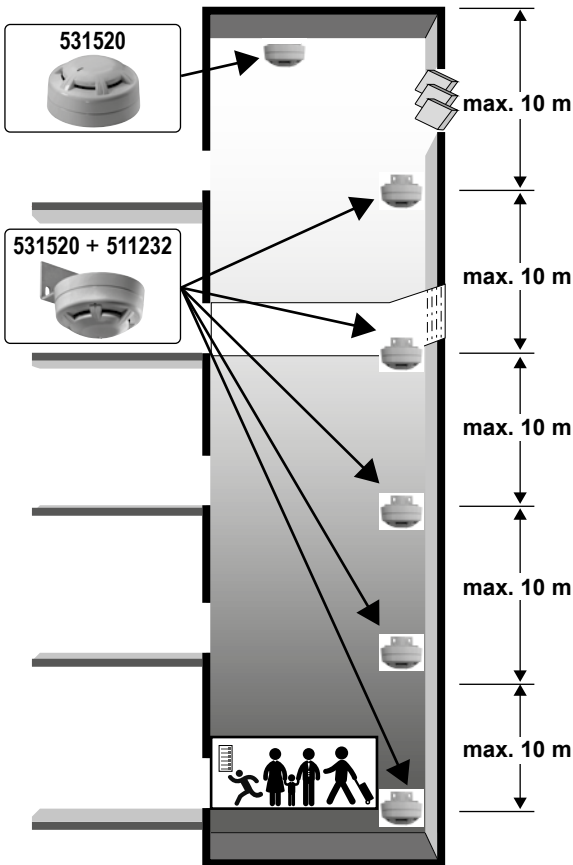
Feature/Equipment

- Fire algorithms for avoiding false alarms, automatic alarm threshold tracking.
- According to EN 54-7, connection to the **detector line input**.

VERSIONS

Optical smoke detector with base - for direct ceiling mounting	531520			
Mounting bracket for optical smoke detectors for shaft wall mounting	511232			
Optical smoke detector with base and relay - main destination stop	531526			

Project planning aid



ORDER DATA

Part.-No.

LSF HSE – Break-glass unit

Application: Break-glass unit for the manual control of the **EMERGENCY-OPEN** functions of a **LSF7000**.**TECHNICAL DATA (Rated values)**

Operating voltage:	24 V DC
Ambient temperature range:	- 5°C ... + 40°C
Housing:	Surface mounting, plastic (ABS)
Dimensions (WxHxD):	130 x 130 x 32 mm
Connections:	Screw terminal, 1,0 mm ² (rigid wire)
Protection rating:	IP30
Display:	EMERGENCY-OPEN, power, fault
Control elements:	Button for EMERGENCY-OPEN, button CLOSE

Feature/Equipment

- Lockable, glazed door (incl. keys)
- Connection to the **detector line input**

VERSIONS

HSE 7000/ HSE 7000-N orange	(similar to RAL 2011)	511042			
HSE 7000/ HSE 7000-N yellow	(similar to RAL 1018)	511044			

CO₂ – Air quality sensor

511231

Application: Sensor for the detection and evaluation of the CO₂ concentration of elevator shafts.**TECHNICAL DATA (Rated values)**

Operating voltage:	15 - 35 V DC
Power consumption:	10 mA (max. 0,5 A für 3 s)
Ambient temperature range:	-20...+60 °C (0-90 %rF - not condensing)
Housing:	Surface mounted, polycarbonate, signal white / light gray
Dimensions:	85 x 100 x 26 mm
Connections:	Screw terminal, 1,5 mm ²
Protection rating:	IP30
Measuring range:	0 / 500 / 1000 / 1500 / 2000 ppm (adjustable level)
Hysteresis:	0 / 25 / 50 / 75 % from the measuring range
Contact:	1x change-over contact
Switching capacity:	1 A (24 V DC)
Response time:	< 195 s
Warm-up time:	< 5 min.

Feature/Equipment

- The sensor works with non-dispersive infrared technology (NDIR)
- Patented auto-calibration process compensates for the aging of the infrared source

ORDER DATA

	Part.-No.			
Room temperature controller	483200			
Application: Thermostat as on-off controller for room temperature detection.				



TECHNICAL DATA (Rated values)

Measuring element:	Bimetal switch
Contact type:	1 change-over switch
Switching capacity:	230 V AC / 5 A
Settings:	0 – 30 °C
Housing:	Surface mounting, plastic, white
Dimensions (WxHxD):	74,5 x 74,5 x 25 mm
Connections:	Screw terminal 1,5 mm² (rigid wire)
Protection rating:	IP30

Feature/Equipment

- Connection to **ventilation inputs** of SHEV or natural ventilation control units.

Ventilation key switch (Surface mounting)	511255			
Application: Ventilation button for connection to the ventilation inputs of SHEV or natural ventilation control units.				



TECHNICAL DATA (Rated values)

Contact type:	2x NO switches
Switching capacity:	max. 230 V AC / 5 A
Housing:	Metal housing - light grey (similar to RAL 7035)
Dimensions (WxHxD):	75 x 75 x 52 mm
Version:	Surface mounting
Connections:	Plug-in terminals 1,5 mm² (rigid wire)
Protection rating:	IP54
Button function:	OPEN – CLOSE
Button:	with semicylinder and 3 keys
Ambient temperature range:	-5°C ... +45°C

Feature/Equipment

- Switch with semicylinder and 3 keys

Siren	45000			
Application: Electronic siren for alarm in case of fire (SHEV alarm approx. 95 dB).				




TECHNICAL DATA (Rated values)


Operating voltage:	10 V ... 28 V
Power consumption:	30 mA (24 V DC)
Volume:	95 dB (A)
Tone (DIN 33 404):	V1 - descending 1200-500 Hz at a 1 Hz-rate (DIP 11000) or V2 - continuous tone 95 dB (DIP 10001)
Protection rating / Protection class:	IP54
Housing colour:	signal red
Dimensions:	Ø100 x 110 mm
Approval:	VdS G206019


Feature/Equipment

- The plug-in card **7xPSB** (included in the scope of delivery „Control Unit“ **LSF7000**) and one **REL65** (included in the scope of delivery „Control Unit“ **LSF7000**) are required for connection to the **LSF7000**.

ORDER DATA

		Part.-No.		
REL65		650200		
Application: Plug-in card for the Control Unit LSF7000 with relay for forwarding the signal „EMERGENCY-OPEN“ or „fault“.				
		TECHNICAL DATA Rated voltage: 24 V DC Ambient temperature range: -5°C ... + 40°C Housing: without (assembled circuit board) Dimensions (WxHxD): 20 x 40 x 13 mm Volt free contac: 1x change-over switch, max. 48 V / 1 A Connection terminals: 3x 1,5 mm ² (rigid wire)		
Feature/Equipment ■ Connector for plugging the relay card to the motherboard				

7xPSB	683256		
Application: Plug-in card (included in the scope of delivery „Control Unit“ LSF7000) for connection and powering of external consumers with 24 V DC voltage .			
		TECHNICAL DATA Rated voltage: 24 V DC Ambient temperature range: -5°C ... + 40°C Output current: 0,5 A Housing: without (assembled circuit board) Dimensions (WxHxD): 20 x 32 x 13 mm Connection terminals: 4x 1,5 mm² (rigid wire) Voltage tap: 2x terminals 24 V DC backup voltage supplied 2x terminals 24 V DC mains voltage supplied	
Feature/Equipment <ul style="list-style-type: none">■ Connector for plugging the card to the motherboard■ Screw-type-terminal 4 x 1,5 mm² NOTE: The overall power consumption of connected external consumers is to be considered!			

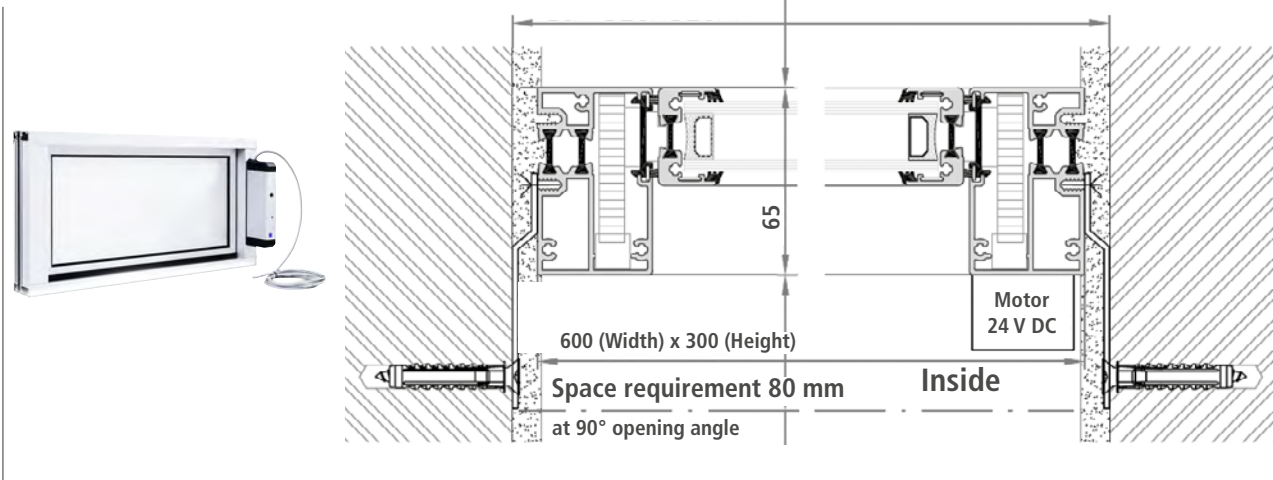
FAS Interface-Module	670053			
Application: Module for the automatic control of the „EMERGENCY-OPEN“ function via volt free contact of a fire alarm system.				
		TECHNICAL DATA (Rated values) Operating voltage: 24 V DC Standby current consumption: <10 mA Ambient temperature range: 0 ... +40 °C Housing: without (assembled circuit board) Dimensions (WxHxD): 27 x 19 x 13 mm Connections: Plug-in terminals 1,5 mm ² (rigid wire) FACU contact: Normally open contact (NO) on alarm triggering		
Feature/Equipment ■ Connection to the detector line input , line monitoring between Control Unit and module.				

ORDER DATA

		Part.-No.		
Louvre windows LF01L		511235		
Application: Louvre windows with electric motor drive for the removal of fire gases and for ventilation purposes. Made from thermally separated aluminum profiles and thermally insulated inserts. Optimal ventilation when open and good thermal insulation when closed.				

TECHNICAL DATA

Nominal size (W x H):	600 x 300 mm
Structural opening:	Nominal size + 10 mm circumference
Version:	1 louvre
Glazing:	24 mm alu-composite panel
Geometric free exhaust surface:	0,1 m ²
UP value (Heat transfer coefficient):	1,4 / DIN EN 673



Mounting options

- Installation with wall anchors in the reveal
- Mounted with surface mounting frame

Part.-No.: 511077
Part.-No.: 511237

Mounting frame MR01 - 600 x 300 mm - für Louvre windows LF01

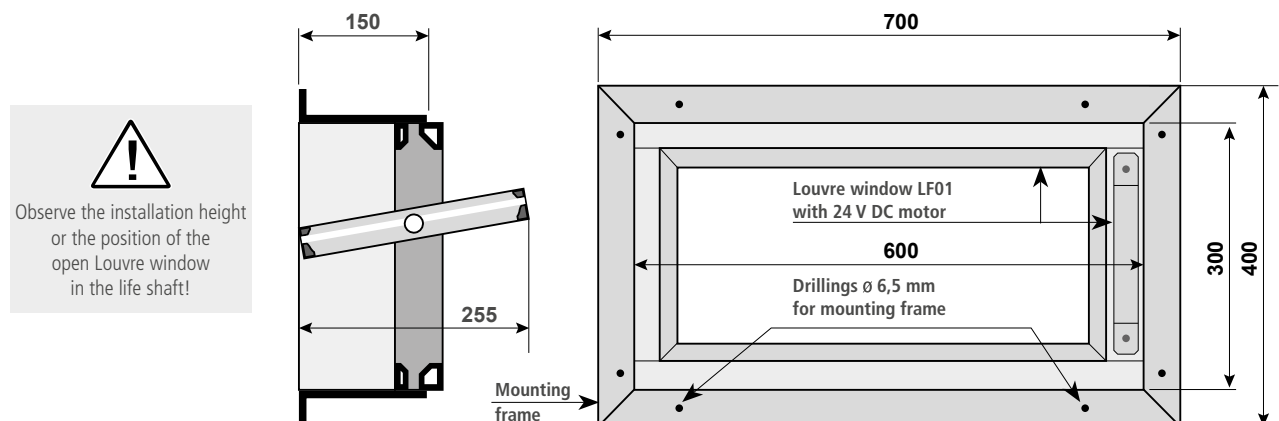
511237

Application: The installation frame is used when the Louvre window can be set from the inside via an existing smoke outlet opening. The Louvre windows are not installed in the masonry. It is delivered attached to the Louvre window at the factory.

TECHNICAL DATA

Nominal size (W x H):	600 x 300 mm
Structural opening:	Nominal size +20 / -0 mm circumference
Wall thickness:	min. 240 mm

Representation example



Feature/Equipment

- For surface mounting of a Louvre window

ORDER DATA

Part.-No.

Louvre windows LF02L

511228

Application: Louvre windows with electric motor drive for the removal of fire gases and for ventilation purposes.
Made from thermally separated aluminum profiles and thermally insulated inserts.
Optimal ventilation when open and good thermal insulation when closed.

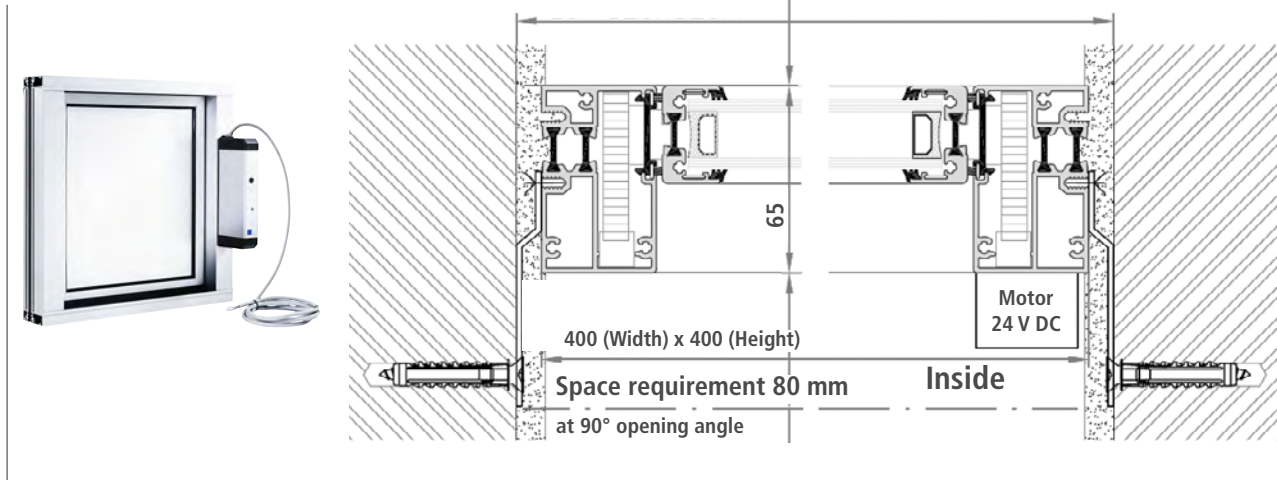
TECHNICAL DATA

Nominal size (W x H): 400 x 400 mm
Structural opening: Nominal size + 10 mm circumference
Version: 1 louvre
Glazing: 24 mm alu-composite panel
Geometric free exhaust surface: 0,1 m²
UP value (Heat transfer coefficient): 1,4 / DIN EN 673

Space requirement 115 mm
at 90° opening angle

Structural opening
approx. 420 x 420 mm

Outside



Mounting options

- Installation with wall anchors in the reveal
- Mounted with surface mounting frame

Part.-No.: 511077

Part.-No.: 511227

Mounting frame MR02 - 400 x 400 mm - für Louvre windows LF02

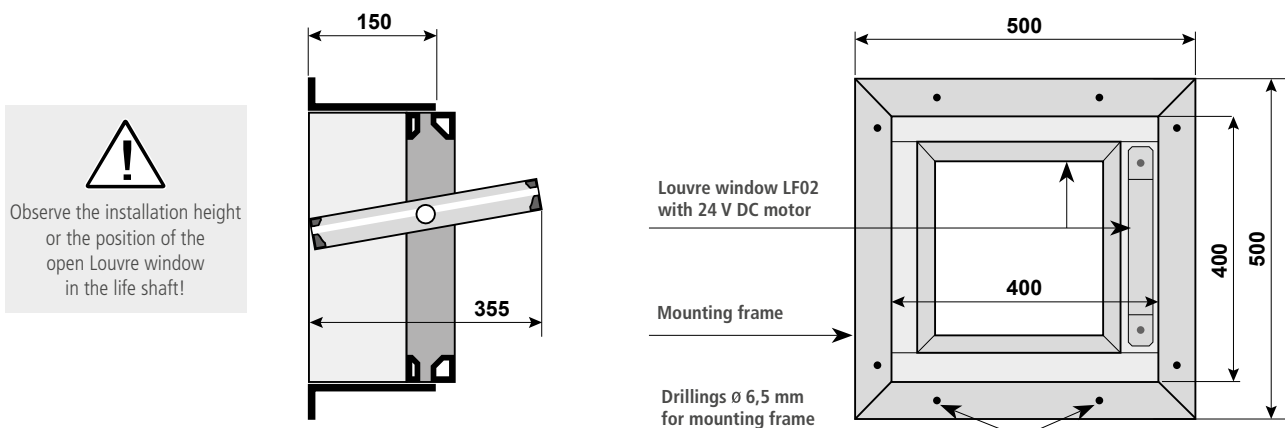
511227

Application: The installation frame is used when the Louvre window can be set from the inside via an existing smoke outlet opening. The Louvre windows are not installed in the masonry. It is delivered attached to the Louvre window at the factory.

TECHNICAL DATA

Nominal size (W x H): 400 x 400 mm
Structural opening: Nominal size +20 / -0 mm circumference
Wall thickness: min. 240 mm

Representation example



Feature/Equipment

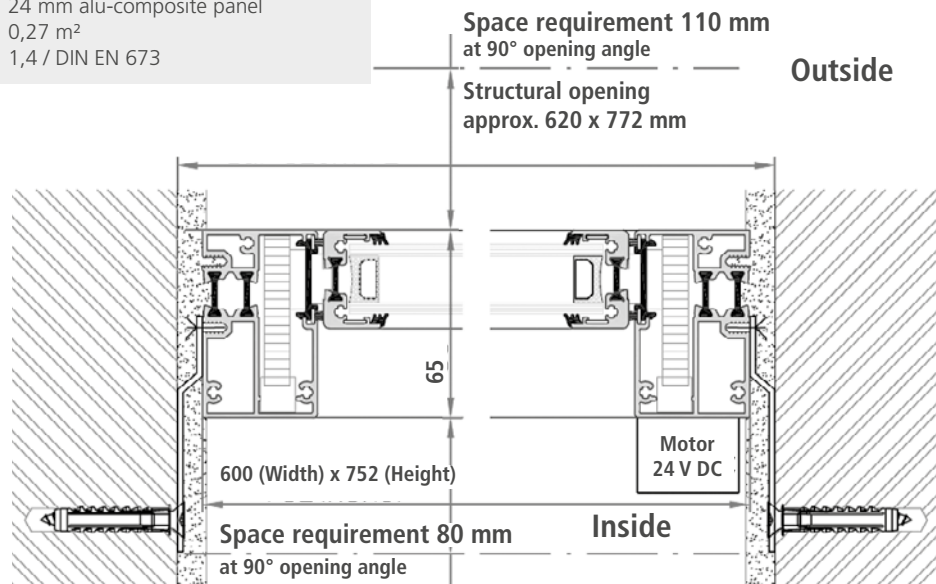
- For surface mounting of a Louvre window

ORDER DATA

		Part.-No.		
Louvre windows LF03L		511236		
Application: Louvre windows with electric motor drive for the removal of fire gases and for ventilation purposes. Made from thermally separated aluminum profiles and thermally insulated inserts. Optimal ventilation when open and good thermal insulation when closed.				

TECHNICAL DATA

Nominal size (W x H):	600 x 752 mm
Structural opening:	Nominal size + 10 mm circumference
Version:	3 louvres
Glazing:	24 mm alu-composite panel
Geometric free exhaust surface:	0,27 m ²
UP value (Heat transfer coefficient):	1,4 / DIN EN 673



Mounting options

- Installation with wall anchors in the reveal
- Mounted with surface mounting frame

Part.-No.: 511077
Part.-No.: 511238

Mounting frame MR03 - 600 x 752 mm - for Louvre windows LF03

511238

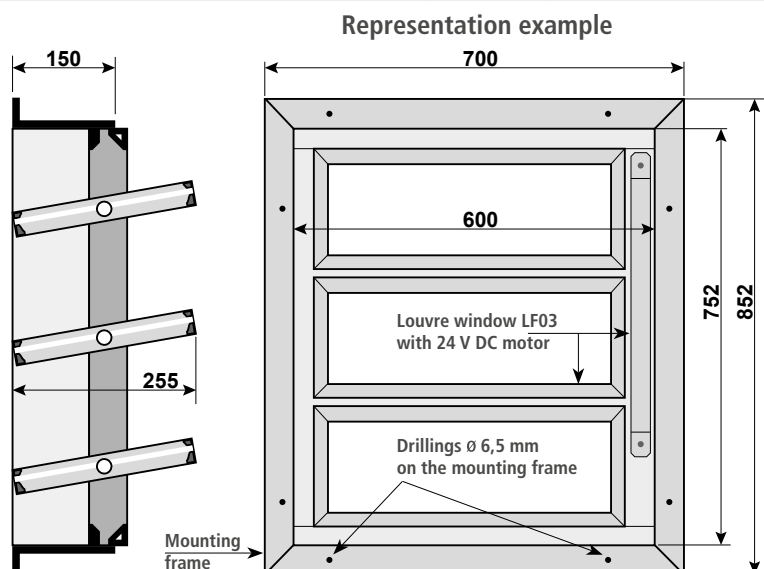
Application: The installation frame is used when the Louvre window can be set from the inside via an existing smoke outlet opening. The Louvre windows are not installed in the masonry. It is delivered attached to the Louvre window at the factory.

TECHNICAL DATA

Nominal size (W x H):	600 x 752 mm
Structural opening:	Nominal size +20 / -0 mm circumference
Wall thickness:	min. 240 mm




Observe the installation height or the position of the open Louvre window in the life shaft!



Feature/Equipment

- For surface mounting of a Louvre window

ORDER DATA

		Part.-No.		
Wall anchor set		511077		
Application: For mounting the louvre windows LF01L / LF02L / LF03L in the reveal. The window is installed by screwing the wall anchor onto the window profile.				
		TECHNICAL DATA (Rated values)		
		Material:	galvanized steel	
		Dimensions (HxWxD):	160 x 25 x 1,25 mm	
		Version:	with two predetermined bending points	
		Set consists of:	8x wall anchor	
Feature/Equipment				
■ Set consists of 8x wall anchors				

ORDER DATA

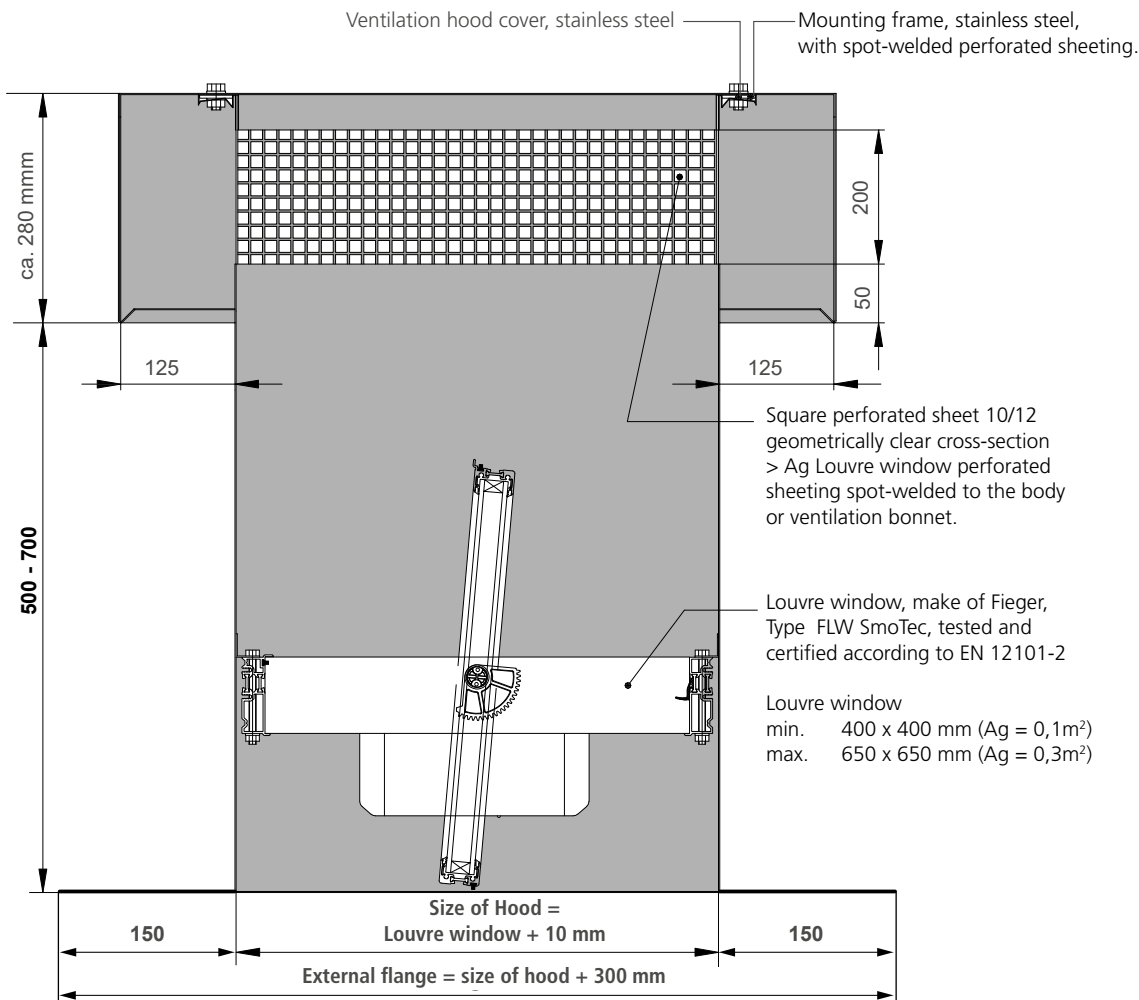
Smoke Exhaustion Hood EH01 or EH03

Application: Smoke Exhaustion Hood with an electric motor drive for the removal of combustion gases and for ventilation purposes.



TECHNICAL DATA

Nominal size (W x H):	EH01: 410 x 410 mm EH03: 660 x 660 mm
Structural opening:	Nominal size +50 / -10 mm circumference
Version:	EH01: 1 louvre EH03: 2 louvres
Glazing:	24 mm alu-composite panel
Geometric free exhaust surface:	EH01: 0,1 m ² EH03: 0,3 m ²
Roof slope:	Max. 30°
Louvre Connection data:	24V DC / 0,65 A



Feature/Equipment

- Stainless steel hood is supplied ready for installation with pre-mounted louvre window, as a NSHEV according to DIN EN 12101-2.
- Rainproof even in open position.
- Ventilation and smoke extraction independent of wind direction - wind-rain control can be omitted.
- Integrated bird and insect protection.

VERSIONS

	Part.-No.			
Smoke Exhaustion Hood EH01 - 410 x 410 mm - with Louvre windows (0,1 m ²)	511233			
Smoke Exhaustion Hood EH03 - 660 x 660 mm - with Louvre windows (0,3 m ²)	511234			

ORDER DATA

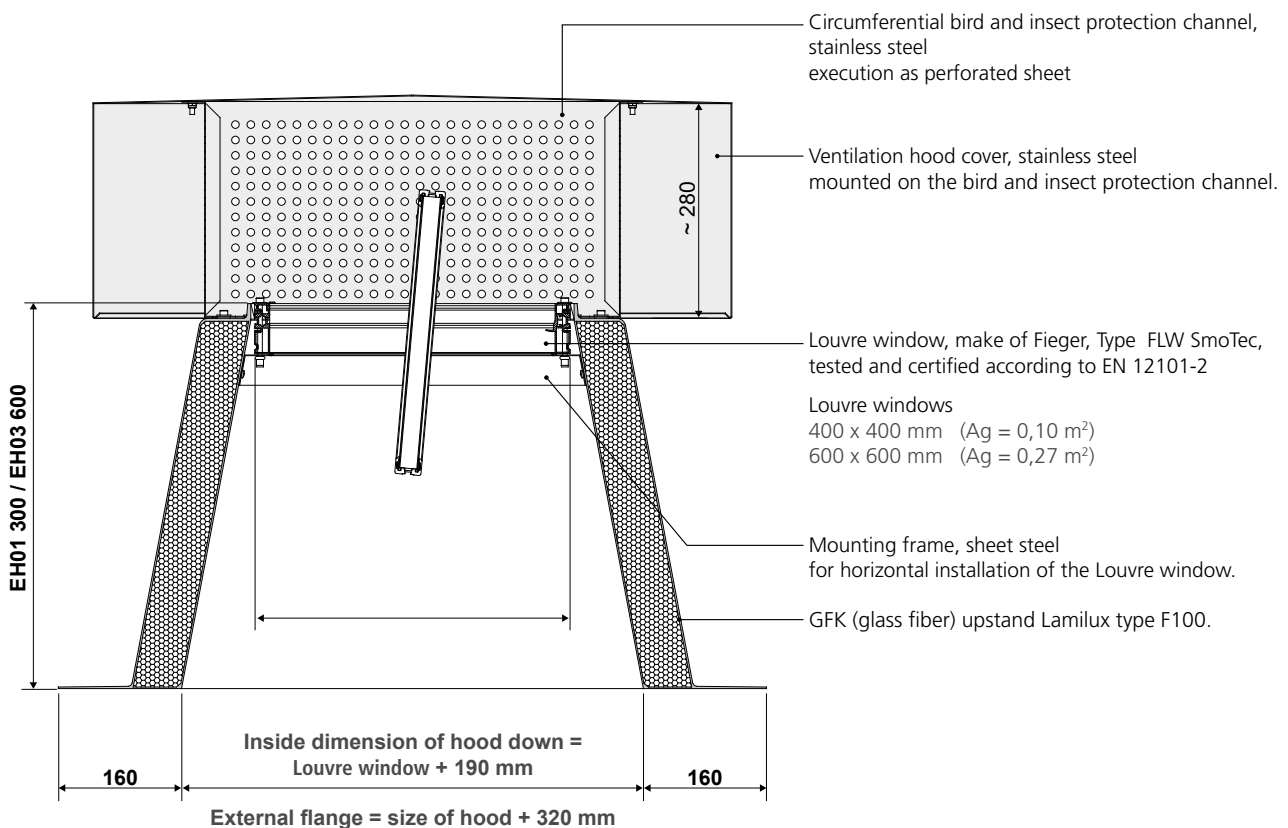
Smoke Exhaustion Hood Thermally Insulated **EHG01** or **EHG03**

Application: Smoke Exhaustion Hood with an electric motor drive for the removal of combustion gases and for ventilation purposes.



TECHNICAL DATA

Nominal size (W x H):	EHG01: 410 x 410 mm EHG03: 610 x 610 mm
Dimensions Louvre window: (W x H)	EH01: 400 x 400 mm EH03: 600 x 600 mm
Inside dimensions hood down: (W x H)	EH01: 600 x 600 mm EH03: 800 x 800 mm
Structural opening:	Nominal size +50 / -10 mm circumference
Version:	EH01: 1 louver EH03: 2 louvres
Glazing:	24 mm alu-composite panel
Geometric free exhaust surface:	EH01: 0,10 m ² EH03: 0,27 m ²
Roof slope:	Max. 30°
Connection data:	24V DC / 0,65 A



Feature/Equipment

- Stainless steel hood is supplied ready for installation with pre-mounted louvre window, as a NSHEV according to DIN EN 12101-2.
- Rainproof even in open position.
- Ventilation and smoke extraction independent of wind direction - wind-rain control can be omitted.
- Integrated bird and insect protection.

VERSIONS

VERSIONS		Part.-No.		
Smoke Exhaustion Hood Thermally Insulated EHG01	- 400 x 400 mm - with Louvre windows (0,10 m ²)	511258		
Smoke Exhaustion Hood Thermally Insulated EHG03	- 600 x 600 mm - with Louvre windows (0,27 m ²)	511259		

ORDER DATA

Weather Protection Hood WH01 or WH03

Application: Serves to protect against external influences, such as insects, rain showers and light wind.



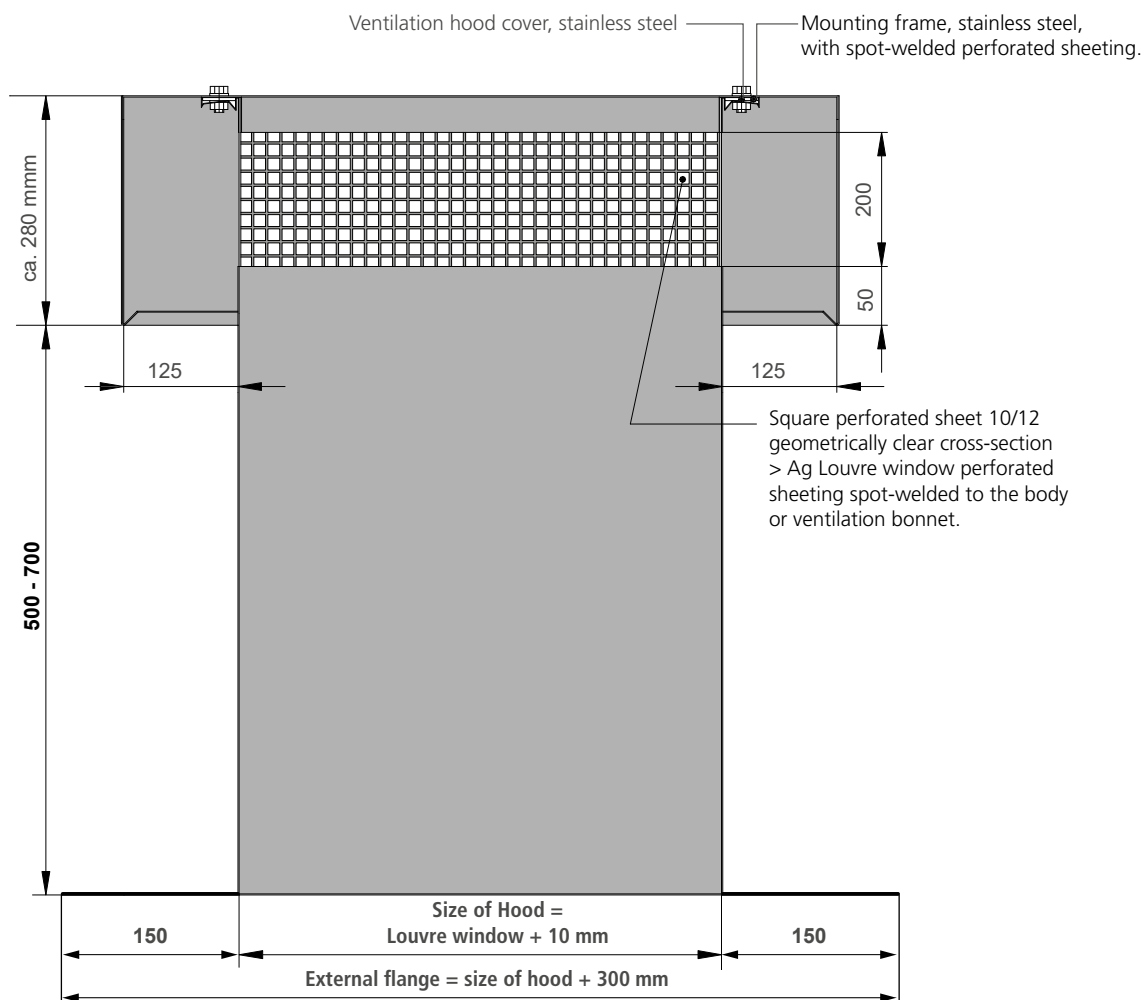
TECHNICAL DATA

Nominal size (W x H): **WH01:** 410 x 410 mm
WH03: 660 x 660 mm

Structural opening: Nominal size +50 / -10 mm circumference

Version: **WH01:** with geometric free exhaust surface **0,1 m²**
WH03: with geometric free exhaust surface **0,3 m²**

Roof slope: Max. 30°



Feature/Equipment

- The hood made of stainless steel is delivered ready for installation.
- Integrated bird and insect protection.

VERSIONS

	Part.-No.			
Weather Protection Hood WH01 - 410 x 410 mm	511260			
Weather Protection Hood WH03 - 660 x 660 mm	511261			