



Ensuring the safety of users is one of the key requirements affecting the design of each building. Staircases are the main way of safe evacuation of people, that is why it is so important to equip them with an efficient smoke exhaust system. It is used to remove smoke, fire gases and heat energy generated during a fire from the building.

In the mcr THERM SYSTEM natural smoke exhaust system for staircases, which can be found in the "MERCOR" S.A. offer, we have used a number of innovative devices. These solutions are the result of

our many years of research, improvements and industry experience. They contribute to the protection of life and property, while meeting current and future requirements for the thermal insulation of buildings. Their aesthetics and handling can meet the expectations of even the most demanding users and fit perfectly into the context of modern architecture.

The complete stairwell smoke extraction system proposed by "MERCOR" S.A. consists of devices for smoke extraction, aeration and ventilation as well as control devices



Mercor Group's mission is to deliver safety to building users by providing them with comprehensive fire protection. For over 35 years, we have been offering our business partners, at every stage of the investment process, products and services they can always trust. As a leader of modern technologies in the fire protection industry, we introduce new solutions that are ahead of the norm, and are additionally characterized by high quality and aesthetic workmanship.

> staircases with mcr ULTRA THERM

mcr THERM SYSTEMS



SYSTEM'S ADVANTAGES

FUNCTION

AESTHETICS

The system ensures safe evacuation through the staircase, while offering additional natural ventilation and enabling access to the roof (vent with hatch function).



Simplicity and modern design make the devices easy to integrate into interior design, adapting them to buildings of various character and purpose.



INTUITIVE SERVICE

One control panel is used for configuration and diagnostics of all devices in the system. the advantage is also the possibility of continuous monitoring of the system operation from the front panel of the control panel.



mcr PROLIGHT smoke vents obtained enviromental declaration showing enviromental impact of the product from sources extraction to transport



EPD

QUALITY

It is the result of combining the unique features of the mcr THERM SYSTEM: functionality, aesthetics and advanced technology. and the system is made of materials with high quality parameters.

WARMTH

The use of innovative products (smoke vents and windows) with high insulation, without thermal bridges guarantees no heat loss.

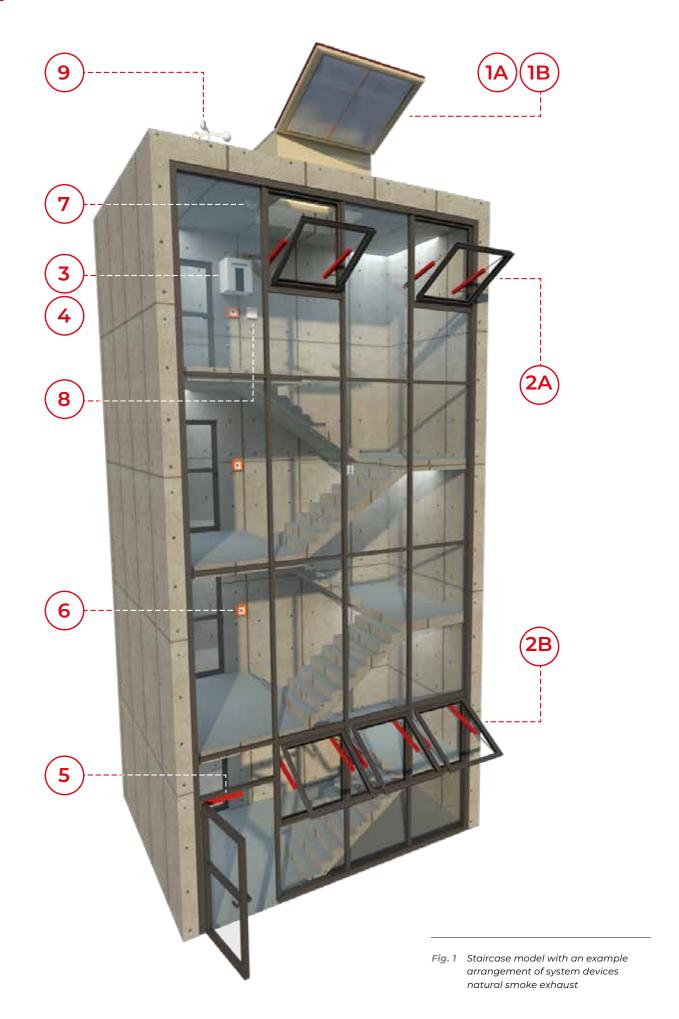
RELIABILITY

Devices included in the system (vents and windows) have been tested in 10 000 cycles to the position of ventilation.



FRIENDLY SERVICE

Notifications from the system control panel make it possible to quickly determine the causes of errors, and the design of the control panel mainboard allows the system to be expanded with additional functions or devices.





DEVICES FOR SMOKE EXHAUST AND VENTILATION

Smoke exhaust vent mcr PROLIGHT

Function: smoke exhaust, daily ventilation, roof access (variant)

Dimensions min.: 100 x 100 cm **Dimensions max.:** 195 x 220 cm **Design:** steel or aluminum base in standard or overlay design

Glazing: multi-chamber polycarbonate plates acrylic or solid polycarbonate domes, mixed glazing

Control: electric 24 V- / 230 V~

















Smoke exhaust windows mcr OSO THERM 75

Function: smoke exhaust and daily ventilation

Dimensions min.: 80 x 80 cm

Dimensions max.: 270 x 130 cm or 160 x 220 cm

Design: thermally broken multi-chamber aluminium profiles

Glazing: glazing unit or sandwich panel **Control:** electric 24 V-/48 V-/230 V~

Aeration window mcr OSO THERM 75

Function: aeration and daily ventilation

Dimensions min.: 80 x 80 cm

Dimensions max.: 270 x 130 cm or 160 x 220 cm

Design: thermally broken multi-chamber aluminium profiles

Glazing: glazing unit or sandwich panel **Control:** electric 24 V-/48 V-/230 V~

ELECTRIC CONTROL SYSTEM DEVICES



Control unit mcr SVM

mcr SVM 24V- 5 A / mcr SVM 24- 8 A In accordance with EN12101 - class A (double power supply)

Power supply voltage: $230 \ \text{V} \sim (1.2 \ \text{A}/1.7 \ \text{A})$

Output voltage: 24 V-

No. of outputs: 1 (1 fire zone / 1 comfort ventilation group)

Max. total load: 5A/8A

Operation time without main voltage source: 72 h

Dimensions: 238 x 113 x 286 mm

Control unit mcr SV

mcr SV 24V-xx-ds / mcr SV 48V-xx-ds In accordance with EN12101 - class A (double power supply)

Power supply voltage: $230 \text{ V} \sim (5 \text{ A}/10 \text{ A})$

Output voltage: 24 V- or 48 V-

No. of outputs: 2 (2 fire zones / 2 comfort ventilation groups)

Max. total load: 8 A / 24 A / 30 A / 32 A

Operation time without main voltage source: $72\,h$

Dimensions: 343 x 178 x 450 mm



Door actuator mcr HCV 500/600 Door Drive





Emergency pushbutton mcr BVT

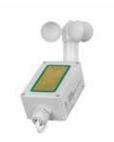
















CONTINUOUS ROOFLIGHT WITH SMOKE VENTS



SMOKE AND VENTILATION



LOUVERED VENTS



SMOKE CURTAINS



SMOKE EXHAUST WINDOWS



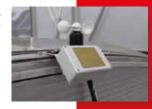
ROOF HATCHES



FIXED **SKYLIGHTS**



CONTROL **SYSTEMS**



STAIRCASE SMOKE **EXHAUST SYSTEMS**

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European Union

European Regional Development Fund



The product was developed within the framework of an innovative project entitled:

"Comprehensive solutions in the scope of passive fire protection of buildings including the development of display line" subsidized with European funds.



Read more about our mcr THERM SYSTEMS for staircases www.**mercor**.com.pl/en











