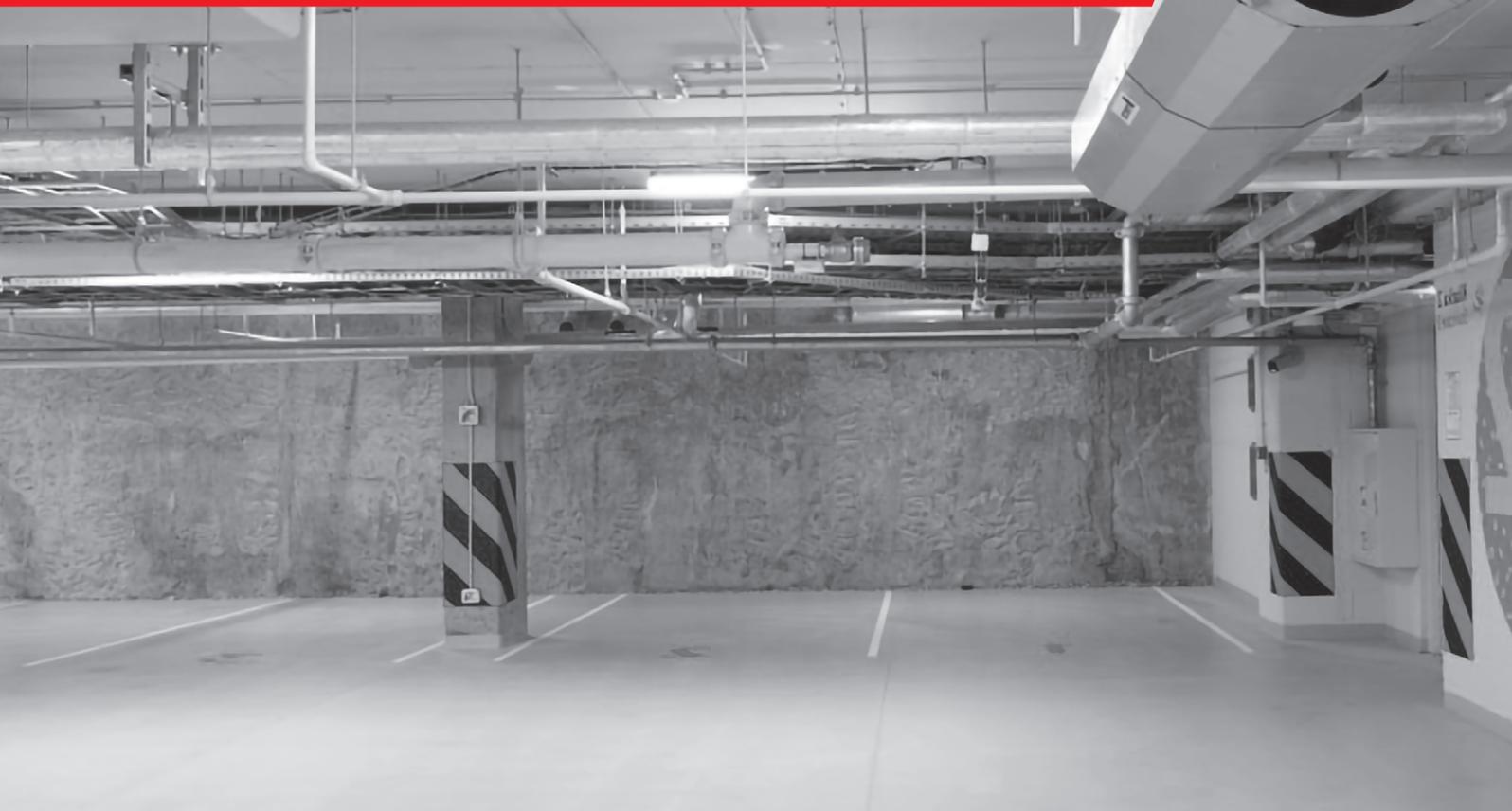


FIRE VENTILATION SYSTEMS

Fire and smoke dampers, fire valves,
smoke and air intake fans,
power and control units



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“Mercor” S.A. specializes in designing, manufacturing and delivering state-of-the-art fire ventilation system solutions. Our products are of the highest quality, approved by specialized institutions and gained the trust of hundred of customers. Mercor S.A. fire ventilation systems are the guarantee of the most effective safety and fire protection. They reduce fire-related risks while limiting the spread of fire.

A wide range of products based on fire dampers and fire valves; smoke extraction, air supply and jet fans; power and control units; overpressure systems and jet ventilation systems allow to create a comprehensive and accurate fire system which works according to the plan formulated in the fire scenario.

CUT-OFF FIRE DAMPERS



mcr **FID PRO** single-blade, low-resistance cut-off damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI 60 ($v_e h_o i \leftrightarrow o$)S
 - EI 120 ($v_e h_o i \leftrightarrow o$)S
 - EI 180 ($h_o i \leftrightarrow o$)S

The damper is intended to separate a fire hazard zone from the safe section of the building. It can be installed at a distance from a construction partition. Available in ATEX version.



mcr **FID S/S c/P** single-blade, low-resistance cut-off damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI 120 ($v_e h_o i \leftrightarrow o$)S

The damper is dedicated to work with general ventilation systems (air supply and exhaust) at penetration sites through construction partitions – walls and ceilings. Available in ATEX version.



mcr **FID S/S p/P** single-blade cut-off fire damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI 120 ($v_e h_o i \leftrightarrow o$)S

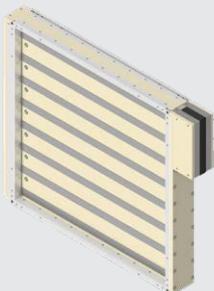
The damper is intended to separate a fire hazard zone from the safe section of the building. Damper installation solutions beyond the construction partition in walls and ceiling are covered by the certificate. Possibility of modular installation of dampers. Available in ATEX version.



mcr **WIP/S** multi-blade transfer cut-off damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI60 ($v_e i \leftrightarrow o$)S
 - EI120 ($v_e i \leftrightarrow o$)S
 - EI120 ($v_e i \leftrightarrow o$) - for the mcr WIP transfer damper

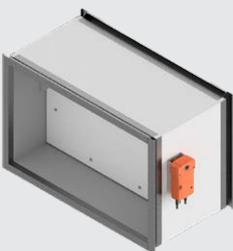
The damper is intended to separate a fire hazard zone from the safe section of the building. The damper can be used also as a transfer damper (T version).



mcr **WIP PRO/S** multi-blade cut-off damper or transfer damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI120 ($v_e i \leftrightarrow o$)S
 - EI 90 ($h_o i \leftrightarrow o$)S
 - EI 180 ($v_e i \leftrightarrow o$) - for the mcr WIP PRO/T transfer damper

The damper is intended to separate a fire hazard zone from the safe section of the building. The damper may also be delivered in an ATEX version. A transfer damper (T version) is also available.



mcr **FID 240** single-blade cut-off damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI240 ($v_e i \leftrightarrow o$)S

The damper is dedicated to work with general ventilation systems (air supply and exhaust) at the passage through building partitions – for dry installation systems.

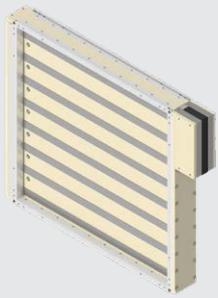
SMOKE DAMPERS



mcr **FID S/V p/P** single-blade smoke damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI 120 (v_{ed} h_{od} i↔o)S1000C₁₀₀₀₀AAmulti
 - EI 120 (v_{ew} i↔o)S1500C₁₀₀₀₀AAmulti

The damper provides proper emergency evacuation conditions as an element of the fire ventilation system. Damper battery assembly, as well as duct damper installation are covered by the certificate.



mcr **WIP PRO/V** multi-blade smoke damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI 120 (v_{ew} i↔o)S1000C₁₀₀₀₀AAmulti
 - EI 120 (v_{ed} h_{od} i↔o)S1000C₁₀₀₀₀AAmulti

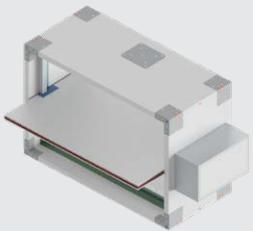
The damper provides proper emergency evacuation conditions as an element of the fire ventilation system – air supply and extract damper. Duct installation, battery assembly and smoke extraction shaft installation are covered by the certificate.



mcr **WIP LD** multi-blade smoke damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI 120 (v_{ew} i→o)S1000C₁₀₀₀₀AAmulti

The damper provides proper emergency evacuation conditions as an element of the fire ventilation system. Installation with the masking grill system are covered by the certificate. The damper provides large active cross section of smoke extraction surfaces.



mcr **FID B** single-blade smoke damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI120 (v_{ed} h_{od} i↔o)S1500C₁₀₀₀₀MAmulti

The damper is dedicated for fire ventilation systems or mixed systems. MA feature – the damper blade can change its position during a fire. Duct installation is covered by the certificate.



mcr **DOR** door-type air supply-extraction damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI180 (v_{ed} i↔o)S1500C₃₀₀AAmulti

The mcr DOR smoke extraction damper is dedicated for installation in air supply or smoke extraction ventilation systems. Duct installation and battery assembly are also available.



mcr **WIP/V** multi-blade smoke damper for fire ventilation systems

- » **CE** – according to EN 12101-8
- » **Fire resistance rating:**
 - EI 120 (v_{ew} i↔o)1000C₁₀₀₀₀AAmulti
 - E₆₀₀ 120 (v_e i↔o)1000C₁₀₀₀₀AAsingle

The damper may be used as a transfer damper and at ventilation system terminations and also as a relief damper for example in gas extinguishing systems. Additionally, the damper may be used in fire ventilation systems – as an air supply and smoke extraction damper.



mcr **Monsun T** axial smoke exhaust / air supply fan

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes
 - F300 – 300°C for 60 minutes
 - No fire resistance – F version

The fan is dedicated to remove the heat and smoke from rooms during a fire. In the REV version, it can operate in systems requiring up to 90% reverse cycle operation. The fan is designed to operate in a smoke reservoir.



mcr **Monsun T-L** axial smoke exhaust fan in an acoustic insulated casing

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes

The mcr Monsun T-L axial fan is used in fire ventilation systems for smoke extraction or air supply where thermal-acoustic insulation of the casing or vertical installation is required.



mcr **Monsun R** axial smoke exhaust fan

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes
 - F300 – 300°C for 60 minutes

The mcr Monsun R axial fan is used in fire ventilation systems for smoke extraction and air supply where high efficiency or operation in explosion risk zones is required. It may also be used in comfort ventilation systems as an air supply or extraction fan. In the REV version, it can operate in systems that require reverse cycle operation of up to 100%.



mcr **Pasat** roof smoke exhaust fan

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes
 - F600 – 600°C for 60 minutes

The mcr Pasat roof smoke exhaust fan with centrifugal rotor is intended to evacuate the smoke and hot air from rooms during a fire and for comfort ventilation.



mcr **Bora** unidirectional / reversible jet fan

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes
 - F300 – 300°C for 60 minutes
 - No fire resistance – BO version

The mcr Bora jet fan is used in fire ventilation or comfort ventilation systems. It is intended to extract (propel) hot air, smoke and fumes generated during a fire. Its design ensures that the air or smoke is transferred in a particular direction with the appropriate velocity.



mcr **FEN** smoke exhaust induction fan

- » **CE** – according to EN 12101-3
- » **Fire resistance rating:**
 - F400 – 400°C for 120 minutes
 - F300 – 300°C for 60 minutes
 - No fire resistance – BO version

The mcr FEN fan is used in fire ventilation or comfort ventilation systems. It is intended to extract (propel) hot air, smoke and fumes generated during a fire. Thanks to its design, it ensures an effective smoke transfer in hard-to-reach locations and limited height underground car parks.

POWER AND CONTROL UNITS



mcr Omega Pro power and control unit for smoke and heat spread control systems

- » National Technical Assessment CNBOP-PIB-KOT-2017/2022/0011-1009 issue 1
- » Certificate of constancy of performance 1438-CPR-0569 (CE)
- » Acceptance Certificate 4679/2022

The mcr Omega Pro unit is designed to be a power and control unit for devices included in heat and smoke spread control systems. The device can be configured according to design requirements. The unit can perform any necessary logic functions necessary, depending on the fire scenario.

The device can be equipped with any protections for fan motors, such as frequency inverters, direct start-up, Star-delta or soft start systems.



mcr Omega ProF power supply for fire protection equipment

- » Acceptance Certificate 4631/2022
- » Certificate of constancy of performance 1438-CPR-0523 (CE)

The mcr Omega Pro power supply is dedicated to reliably supply and sustain the operation of 230V or 24V devices with a specified power for a given time.

The unit is intended to supply a guaranteed voltage from the electrical network or, in the event of power failure, from the battery which is an integral part of the device.



mcr iXega Pro fire detection and fire protection equipment control unit

- » Certificate of constancy of performance 1438-CPR-0587
- » Acceptance Certificate CNBOP no. 3143/2018

The mcr iXega pro manages the addressable elements of the automatic fire detection system and coordinates the operation of system components.

The unit triggers a fire alarm and controls the signaling devices, as well as the components of fire and comfort ventilation, jet ventilation and overpressure systems.

It is also used to control fire divisions and natural smoke extraction systems. The unit also relays information to the monitoring center or building supervision system.



mcr HEX natural smoke extraction system for vertical emergency evacuation routes and staircases with mechanical support

The mcr HEX staircase smoke extraction system is installed to ensure building users' safety.

The system consists of air supply sets and smoke dampers which work together in order to prevent smoke from reaching the protected zone.

A certified mcr Omega pro control unit manages the system operation.



mcr EXi-F hybrid overpressure smoke protection system for the vertical emergency evacuation routes (electronic)

- » National Technical Assessment ITB-KOT-2021/1788
- » National certificate of constancy of performance 020-UWB-2469/W
- » Compliant with EN 12101-6
- » Compliant with EN 12101-13

The mcr EXi-F system is a set of devices used to protect emergency evacuation routes from smoke by creating overpressure in the protected zone.

The mcr EXi-F set consists of:

- air supply set
- automation system with an adaptive controller and a frequency converter
- pressure converters/vestibule controllers
- ventilation equipment



mcr Jet - FLO comprehensive garage jet ventilation system

A jet ventilation system is used for extracting smoke from underground garages as an alternative solution to traditional duct systems.

The operation of jet ventilation devices is based on the piston effect, where smoke and fire gases are appropriately propelled through the entire cross section of the garage, from the air supply towards the extraction openings (smoke extraction).

Jet ventilation systems may also be used as comfort ventilation for garages, they cooperate with CO and LPG detection systems, dilute and extract potentially harmful gases.

The comprehensive mcr Jet-FLO jet garage ventilation system consists of the following elements:

- main air supply and extraction fans (e.g. mcr Pasat, mcr Monsun T and mcr Monsun R) with a fire resistance rating of F300, F400 (unidirectional or reverse)
- mcr Bora jet fans with a fire resistance rating of F300, F400 (unidirectional or reverse) and mcr FEN
- mcr Omega Pro power supply and control units manage system elements
- components of CO, LPG and smoke detection systems

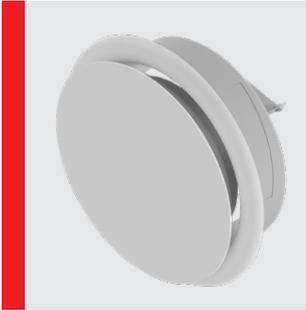
DAMPERS AND CUT-OFF VALVES



mcr **FID WING** butterfly fire cut-off damper

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI 60 ($v_e h_o i \leftrightarrow o$)S
 - EI120 ($v_e h_o i \leftrightarrow o$)S

The damper is intended to separate a fire hazard zone from the safe section of the building.



mcr **ZIPP** fire cut-off valve

- » **CE** – according to EN 15650
- » **Fire resistance rating:**
 - EI 120 ($v_e h_o o \rightarrow i$)S
 - EI 180 ($v_e o \rightarrow i$)S
 - EI 120 ($v_e i \rightarrow o$)

The valve is intended to be installed at the terminations of the ventilation system, to separate a fire hazard zone from other parts of building and to transfer air through construction partitions.

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