



fire ventilation systems

fire dampers and valves
smoke exhaust, air supply and jet fans
power supply and control systems
overpressure systems
jet ventilation systems

NEW SOLUTIONS IN OFFER

mcr EXi-F

set of devices for pressure differentiation in smoke and heat control systems, based on frequency inverters

mcr WIP PRO

multi-blade cut-off fire damper and for use in fire ventilation systems (EI 120S)

mcr iXega

fire detection and fire device control unit

mcr Monsun

reversible axial smoke exhaust fan for use in smoke reservoir

mcr Omega

control and supply unit for fire, jet ventilation and pressurization systems



PRODUCT SELECTION SOFTWARE

We recommend device selection software available at our website, www.mercor.com.pl.

In the Architect and Designer Zone you will find software for selecting the technical parameters of:

- fire dampers mcr FID S, mcr FID C, mcr FID PRO, mcr WIP PRO, mcr WIP, mcr FS and cut-off valves mcr ZIPP,
- smoke exhaust fans mcr Monsun, mcr Pasat,
- supply-exhaust fans mcr Monsun BO,
- jet fans mcr Bora,
- mcr EXi pressurization system components.

Detailed technical information is provided in technical catalogues, available for download at www.mercor.com.pl



◀ mcr **FID C**



single-blade low-resistance cut-off fire damper

CE – acc. EN 15650:2010

Fire resistance
EI 120 (v_e h_o i↔o)S
E 120 (v_e h_o i↔o)S

The damper is designed for use in general ventilation systems (supply and exhaust function), for installation in building partitions – walls and ceilings.

mcr **FID S** ▶

single-blade cut-off fire damper and for use in fire ventilation systems

CE – acc. EN 15650:2010
CE – acc. EN 12101-8:2011

Fire resistance
EI 120 (v_e h_o i↔o)S
EI 120 (v_{ew} i↔o)S1000C₃₀₀AAmulti
EI 120 (v_{ew} i↔o)S1500C₁₀₀₀AAmulti

The damper is designed for the separation of the fire hazard zones from the safe parts of the building (S version) and ensuring appropriate evacuation conditions with fire ventilation (V version). The certificate also covers solutions for installation out of fire partition (walls, ceilings).



◀ mcr **FID PRO**

single-blade low-resistance cut-off fire damper

CE – acc. EN 15650:2010

Fire resistance
EI 120 (v_e h_o i↔o)S

The damper is designed for the separation of fire hazard zones from safe parts of buildings.

mcr **ZIPP** ▶

cut-off fire valve

CE – acc. EN 15650:2010

Fire resistance
EI 120 (v_e h_o o↔i)S
EI 180 (v_e o↔i)S

The valve is designed for fitting at the ends of ventilation ducts and to be used for the separation of fire hazard zones from safe parts of the building as well as for transfer of air through building partitions.



mcr WIP ▶

multi-blade cut-off, transfer and relief damper, also for use in fire ventilation systems

CE – acc. EN 15650:2010
CE – acc. EN 12101-8:2011
“B” marked acc. AT-15-9582/2015

Fire resistance
EI 60 ($v_e i \leftrightarrow o$)S
E 120 ($v_e i \leftrightarrow o$)S
EI 120 ($v_{ew} i \leftrightarrow o$)1000C₁₀₀₀₀AAMulti

EI 120 ($v_e i \leftrightarrow o$) / E 120 ($v_e i \leftrightarrow o$), EI₁ 60, EI₂ 120
– for transfer damper mcr WIP/T
and relief damper mcr WIP/T-G

The damper is designed for the separation of fire hazard zones from safe parts of the building (S version). The damper can be used at the ends of ventilation ducts. The device can also be used as transfer damper (T version),



relief damper (version T-G), e.g. in gas extinguishing systems. Additionally, the damper is designed to be implemented in fire ventilation systems (V version) as supply or exhaust damper.

mcr WIP PRO ▶

multi-blade cut-off damper for fire ventilation systems

CE – acc. EN 15650:2010
CE – acc. EN 12101-8:2011

Fire resistance
EI 120 ($v_e i \leftrightarrow o$)S
EI 90 ($h_o i \leftrightarrow o$)S
EI 120 ($v_{ew} i \leftrightarrow o$)S1000C₁₀₀₀₀AAMulti

The damper is designed for the separation of fire hazard zones from safe parts of the building (S version) and to ensure proper evacuation conditions with fire ventilation (V version) – supply and exhaust damper.



◀ mcr FS

curtain transfer damper

CE – acc. EN 15650:2010

Fire resistance
E 120 ($h_o v_e i \leftrightarrow o$)
E 120 ($v_e i \leftrightarrow o$)

The damper is designed for unducted mounting in building partitions with the purpose of air transfer.
DWFx-C – gypsum board walls
IF – concrete walls and ceilings

mcr DOR ▶

door type smoke exhaust and supply damper

Fire resistance
EI 120 AA

The fire smoke exhaust damper mcr DOR is designed for installation in supply and smoke exhaust ventilation systems.



◀ mcr **Monsun** mcr **Monsun BO**



axial reversible smoke exhaust fan / supply-exhaust axial fan

CE – acc. EN 12101-3

Fire resistance
F400 – 400°C for 120 min.
F300 – 300°C for 60 min.
F200 – 200°C for 120 min.
No resistance – BO version

The fan is designed to remove smoke and hot air from closed compartments during fire. It can be used in systems where reverse function is required. The fan is adapted for work in smoke reservoirs. It can also be used in comfort and industrial ventilation systems as exhaust or supply fan (BO version).

mcr **Monsun C** ▶

axial smoke exhaust fan in sound insulated casing / ATEX certified

CE – acc. EN 12101-3

Fire resistance
F400 – 400°C for 120 min.

The axial fan mcr Monsun C can be used in fire ventilation systems as exhaust or supply fan, when sound and thermal insulated casing or reverse function are required. As an option, it can be ATEX certified. It can be used in comfort ventilation systems as supply or exhaust fan.



◀ mcr **Monsun R**

reversible axial fan

CE – acc. EN 12101-3

Fire resistance
F400 – 400°C for 120 min.
F300 – 300°C for 60 min. (120 min.)

The axial fan mcr Monsun R is used in fire ventilation systems for smoke exhaust or air supply, when reverse functionality is needed. It can be used in comfort ventilation systems as supply or exhaust fan.



mcr **Pasat** ▶

centrifugal roof fan

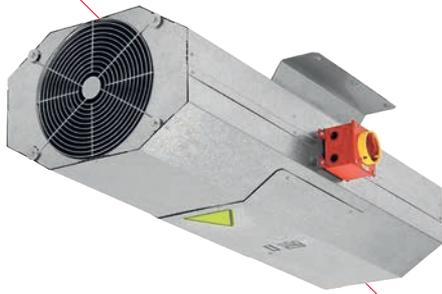
CE – acc. EN 12101-3

Fire resistance
F400 – 400°C for 120 min.
F600 – 600°C for 60 min.

The centrifugal smoke exhaust roof fan mcr Pasat with radial rotor is designed for removal of smoke and hot air from the compartments during fire. It can be also used as fan for comfort ventilation systems.



◀ mcr Bora



single-directional or reversible jet fan

CE – acc. EN 12101-3

Fire resistance

F400 – 400°C for 120 min.

F300 – 300°C for 60 min.

The jet fan mcr Bora is used in fire and comfort ventilation systems. The fan is designed for the removal of hot air, smoke and combustion gases formed during fire. The design of the fan allows to direct air or smoke in the specified direction with adequate flow rate.

mcr Omega ▶

control-supply unit for fire and jet ventilation and pressurization systems

Technical Approval AT-0401-0394/2013

Certificate of Compliance 3004/2015

Approval for use certificate CNBOP no. 2331/2015

Approval for use certificate CNBOP no. 2798/2016

CE – acc. EN 12101-10:2005/AC: 2007

The mcr Omega unit is designed for control and power supply of the devices used in fire and jet ventilation and pressurization systems. It can be customized according to fire scenarios of specific projects (operating software can be modified). The unit can be used as power supply for fire devices. It can be equipped with a frequency inverter, a DOL starter or star-delta systems.



◀ mcr iXega



fire detection and fire device control unit

Certificate of constancy of performance 1438-CPR-0436

Approval for use certificate CNBOP no. 2539/2015

The mcr iXega unit controls the components of the addressable automatic fire detection system and coordinates the operation of devices included in that system. The unit initiates fire alarm and controls signalization devices as well as devices included in fire, comfort and jet ventilation and pressurization systems. The unit can also be used to control fire partitions and gravitational smoke exhaust systems. Additionally, the unit forwards data into monitoring or building management systems.



◀ mcr EXi

pressurization smoke prevention system for vertical escape routes

"B" marked acc. AT-15-9287/2014
Compliance with EN 12101-6

The system is used to ensure the safety of building users during fire evacuation through vertical escape routes (e.g. staircases). The system is built from supply and exhaust sets, which increase pressure and prevent smoke from entering protected zones. The system is managed by the certified control unit mcr Omega.

mcr EXi-F ▶

pressurization hybrid smoke prevention system for vertical escape routes (electronic)

"B" marked acc. AT-15-9674/2016
Compliance with EN 12101-6

The system mcr EXi-F is a set of devices used for increasing pressure and preventing smoke from entering protected zones.

The EXi-F set includes:

- air supply kit,
- automatic control components with adaptive regulator, and frequency inverter,
- pressure transmitters,
- ventilation fittings.



mcr j-FLO ▶

jet ventilation system for garages

Jet ventilation systems are used for smoke exhausting from underground garages as an alternative solution to conventional duct systems. Operation of jet ventilation systems is based on piston effect by which the smoke and fire gases are appropriately forced through the whole garage section from the inlet to the outlet (smoke exhaust). Jet ventilation systems may be used also for comfort ventilation of garages, they can also work with CO and LPG detection systems and dilute and remove gases harmful to human health.

The mcr j-FLO jet ventilation system for garages consists of:

- main inlet and outlet fans (e.g. mcr Monsun, mcr Pasat, mcr Monsun C & mcr Monsun R) with fire resistance F200, F300, F400 (single-direction or reversible),
- jet fans mcr Bora with fire resistance F200, F300, F400 (single-direction or reversible),
- control units mcr Omega which supply and control the system components,
- cut-off dampers for fire ventilation systems (e.g. mcr FID S, mcr WIP PRO, mcr WIP),
- power supply cables, cable suspensions and electro-installation accessories,
- components of CO, LPG and smoke detection systems.



FIRE PROTECTION SYSTEMS

- ▶ fire ventilation systems
- ▶ smoke and heat exhaust systems
- ▶ fire protection of building structures



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