Presentation of E.M.B. Products AG

We are your partner for:

- Smoke and heat exhaust systems
- Industrial ventilation
- Daylight technology
- Facade systems

Our history

History of EMB-Products AG

1989	foundation of production in Emmerich / Germany
1990	total turnover: **2.000.000 €**
1991 - 1998	organisation of the German wide distribution network
1999	total turnover of the company group: **22.000.000 €**
2000	start of the production in Slovakia on an area of 6000 m²
2001	completion construction stage 2
2003	start of our export activities in Europe
2010	total turnover of the company group in Europe: **43.500.000 €**
2010 - 2011	expansion of the export activities to China and the South American subcontinent
2011	total turnover of the company group in Europe: **52.200.000 €** number of employees in Germany: 87

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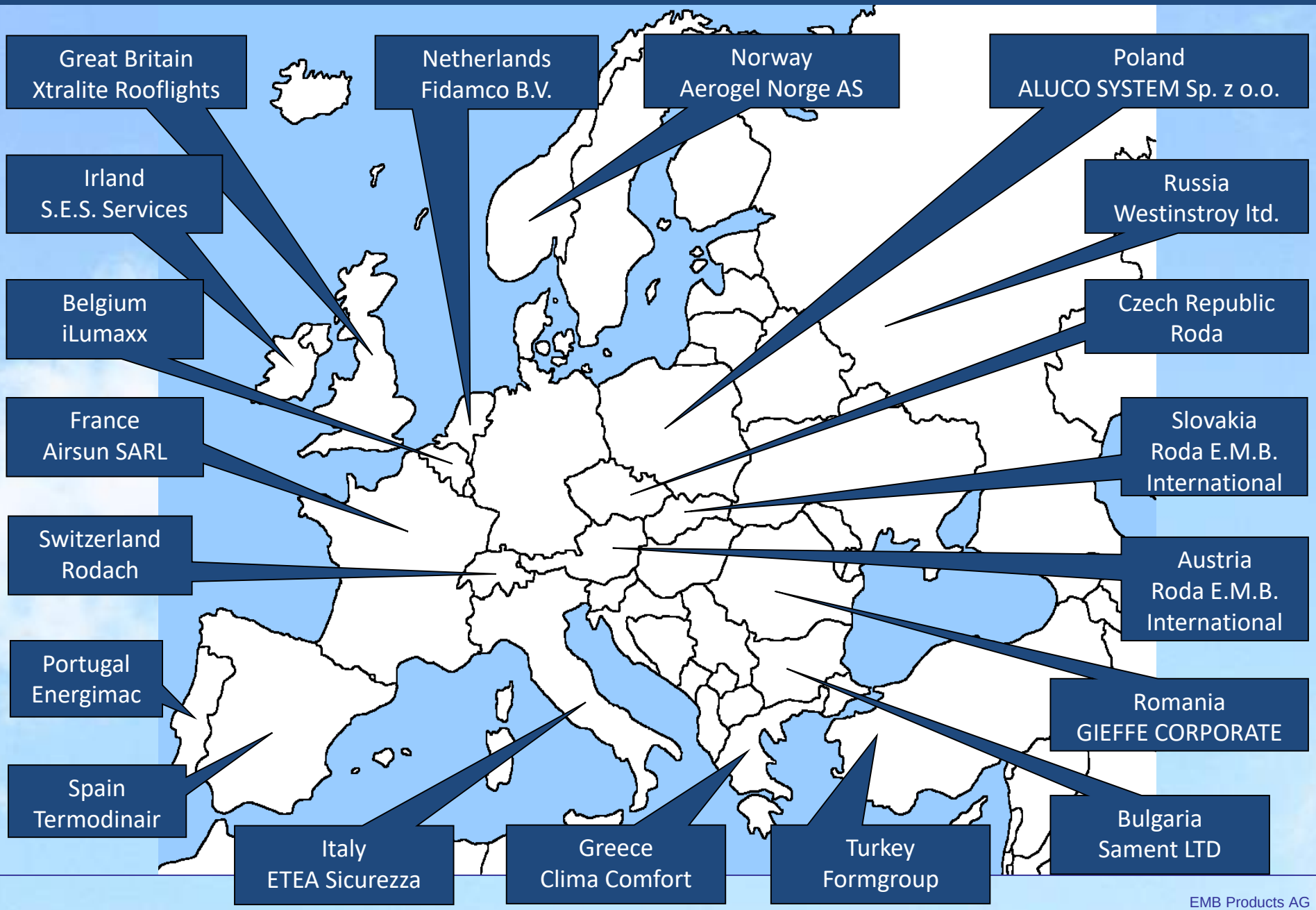
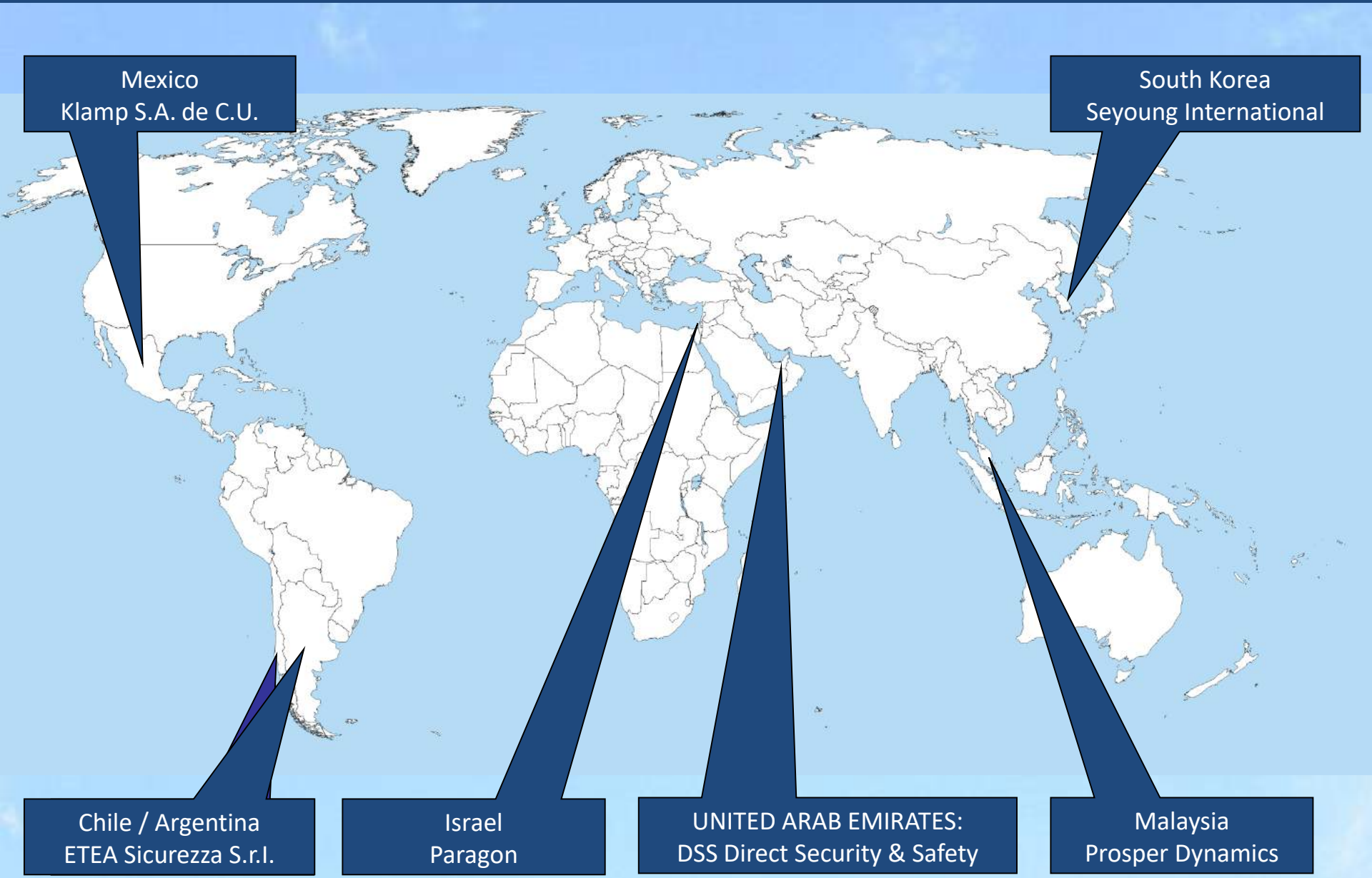
2011	total turnover of the company group in Europe: **52.200.000 €** number of employees in Germany: 87
2012	total turnover of the company group in Europe: **56.800.000 €** number of employees in Germany: 94
2013	Expansion UAE (Quatar, Dubai), Saudi Arabia, South Korea

Our partners

Foreign business partners



Foreign business partners



We hope you´ll be the next one

Industrial Ventilation

Mechanical ventilation in combination with natural ventilation is one of the most effective and also economical forms of aeration and ventilation system available on the market today.

Mechanical Ventilation

As close as possible to working areas

- Fresh and clean air in working areas
- Maximum ventilation by use of lesser quantities of air

Natural Ventilation

Use of thermal lift

- No energy costs
- Environmental friendly
- exhaust air volume of approximately 14,000-15,000 m^3/h at an opening surface of 2 m^2 and waste air speed of 2 m/sec

  = 2kW exhaust ventilator

Mechanical Ventilation

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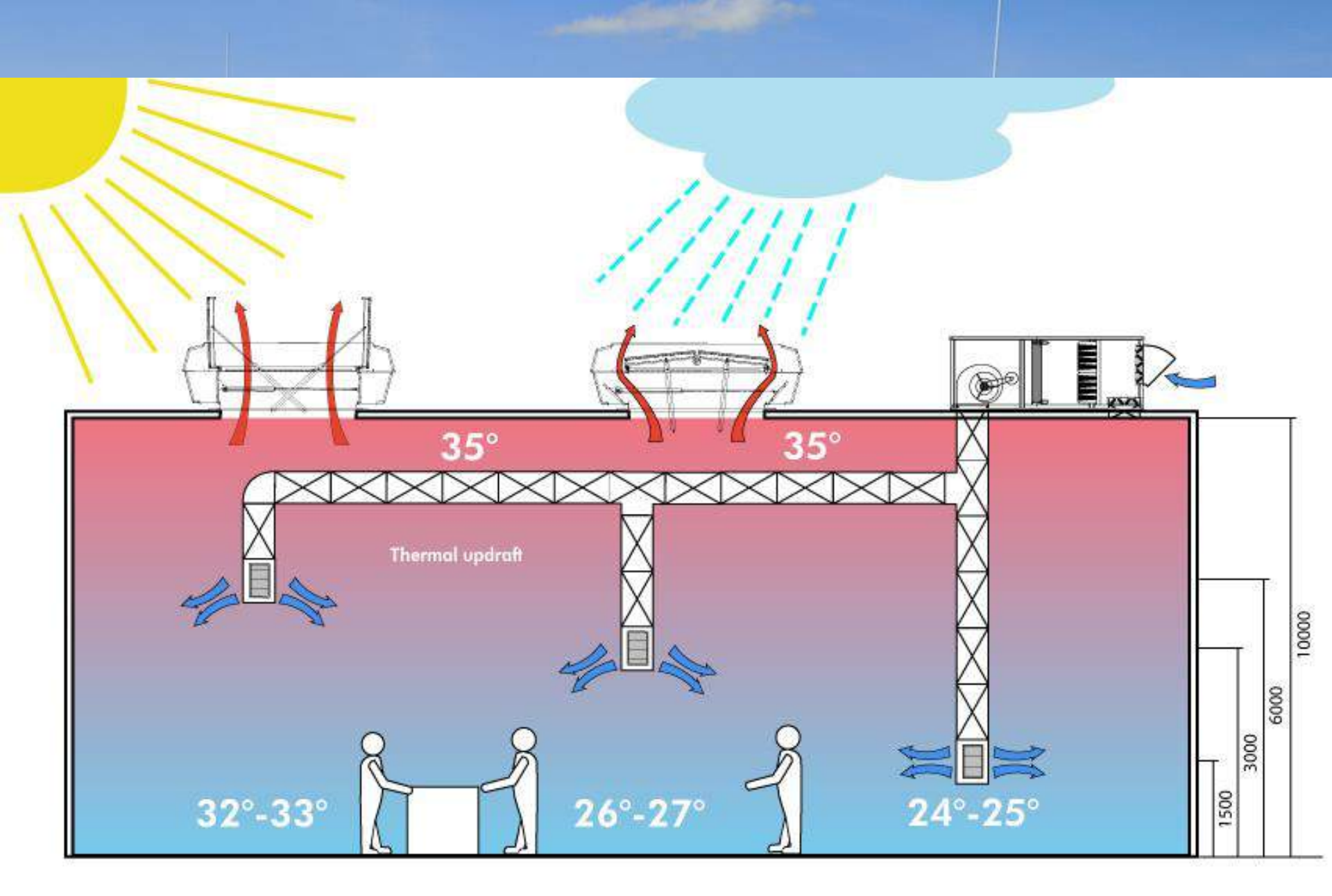
Decentralised system

Centralised room related air inlet system for the ventilation and heating operation


35°
35°
Thermal updraft
32°-33°
26°-27°
24°-25°
1500
3000
6000
10000

Natural Ventilation

Smoke- and heat exhaust

combined in one unit

PHOENIX

MEGAPHOENIX

FIREFIGHTER

MEGASTAR

SMOKEJET

MULTIJET

All units:

- are approved and certified as natural smoke and heat extractors*
- for the use of everyday ventilation and checked for 10,000 test openings processes*
- Energy-saving natural lighting, which is glare-free when using opal polycarbonate or Lumira™-filled panels
- Individually adaptable to all types of buildings
- Hail-and fall-through-proof depending on the specification
- Fire-resistance rating A1*

* depending on system size and model

Depending on the location and the requirements, the most suitable version can be chosen with regard to:

- Size
- Plinth mounting (EUROZARGE (frame) / EUROSOCKEL (plinth))
- Flange version

In the event of fire, all NSHEVs with pneumatic drives open:

- Automatically via a thermal priority valve connected to a CO_2 cartridge
- Via an emergency fire control unit with a CO_2 cartridge
- Via a fire alarm control unit triggered by smoke detectors or actuator buttons (optional)

In the event of fire a smoke-and-heat-extraction-system control cabinet with backup batteries actuates the 24 V versions with servomotors:

- Via smoke detectors or actuator buttons (optional)
- Via an intermediate fire alarm control unit (optional)

Triggering for everyday ventilation via the building's compressed-air network, a ventilation control cabinet (pneumatic control), or a smoke-and-heat-extraction-system control cabinet (24 V servomotors):

- Ventilation control cabinet
- Actuator buttons
- Timer for night cooling (optional)
- Wind and rain sensors for protection against bad weather (optional)

Tested and certified systems

MPA NRW.
Materialprüfungsamt Nordrhein-Westfalen
geprüft + überwacht
Nr.: 210004512

VdS
- ISO 9001
- approved products
- approved systems

Hochschule Aachen
I.F.I. Institut für Industrieaerodynamik GmbH
Institut an der Fachhochschule Aachen

Deutsches Institut für Bautechnik
DIBt

MÜLLER-BBM

Tested and certified for Functional reliability:

- Up to Re 1000*
- At wind loads up to WL 3000 (3000 Pa)*
- At snow loads up to SL 1500 (1500 N/m. / VdS-certification min. 500 N/m²)*
- At low ambient temperatures down to T(-15) (-15 °C)*
- Up to heat-exposure rating of B 300-E (300 °C / fire-resistance rating E)*

* depending on system size and model

The units are also tested for:

- Aerodynamically efficient opening surface
- Sound insulation levels according to our specifications
- Corrosion and aging resistance


All units comply with
DIN EN 12101-2 and VdS 2159.
CE
MPA - Geprüft nach:
DIN EN 12101 - 2
Bauproduktengesetz
89 / 106 / EWG

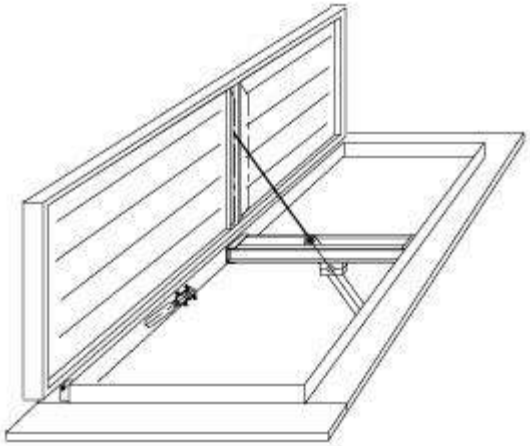
Advantages:

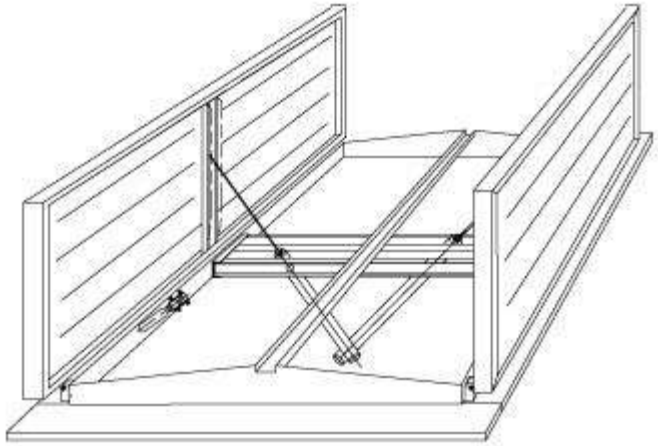
- Suitable for everyday ventilation (full ventilation at 90° vent position)
- Available in an insulated or a non-insulated version
- Sound absorption level up to 33 dB
- Flexible sizing makes the system ideal for use on flat roofs for all roof openings up to 2.5 x 3 m^2
- Good aerodynamic efficiency and good U-value

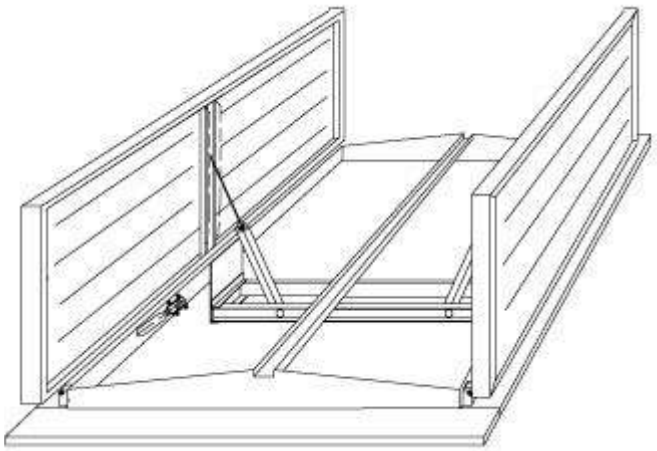
Advantages

In addition, the pneumatically controlled PX1 and PX2 units have been tested for explosion protection (ATEX) according to the EU Directive 94/9/EC with reference to EN 1127-1, EN13463-1 and EN 13463-5.

Versions:







PX1G - Single-flap in an opening or a non-opening version (only for skylights/Northlight roofs)

PX2D - Double flap in opening or non-opening versions

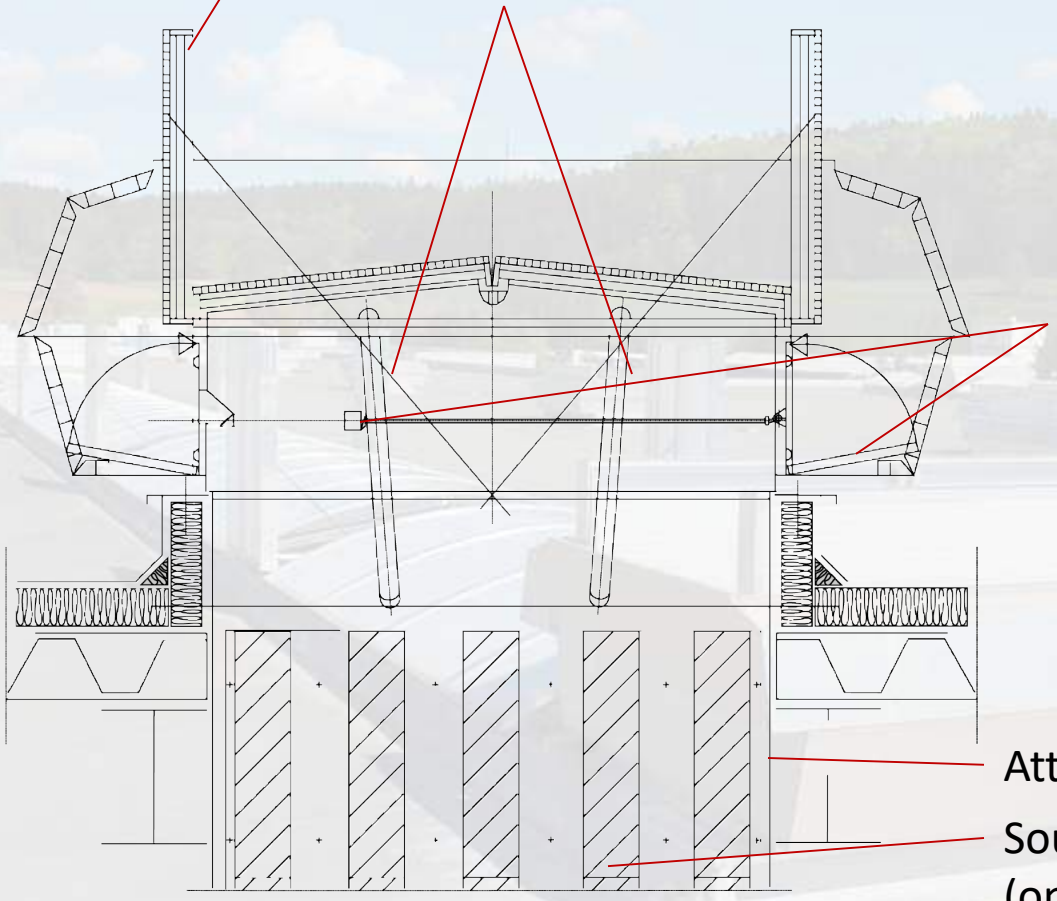
PX2MKII - Double-flap version with short cylinders

certification

MEGAPHÖNIX

- natural allweather ventilation unit
- rainproof ventilation is achieved via pneumatically or electrically controlled lateral flaps
- Automatic switch-over to weather-proofed ventilation by means of a rain sensor

Top flaps
open via pneumatic cylinders with end-position locking and a remote unlocking system or by electric motors.

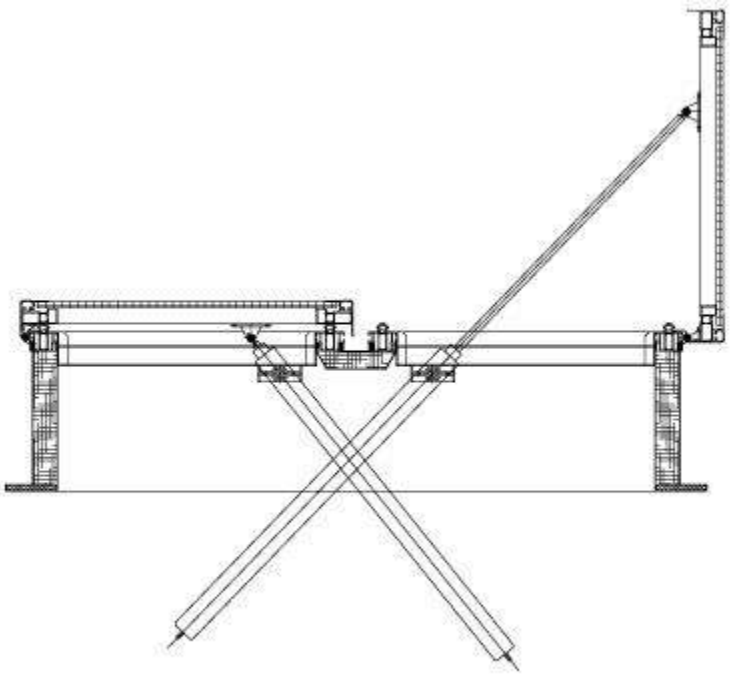


Side flaps
open via pneumatic cylinder or by electric motor. They close by two springs.

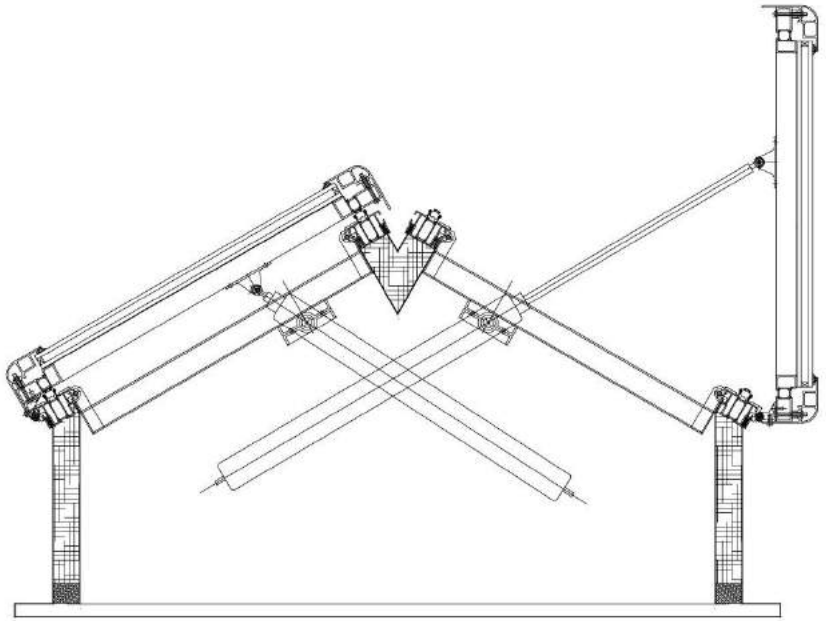
Attenuator housing

Sound dampening splitters (optional)

Versions:



FIREFIGHTER DUO



FIREFIGHTER DELTA

Advantages:

- Suitable for everyday ventilation
  (full ventilation at 90° vent position)
- Thermal separation in accordance with DIN 4108
  (depending on the specification) reduziert Schwitzwasserprobleme
- Sound absorption level up to 56 dB
- Can also be fitted with insulating glass panes

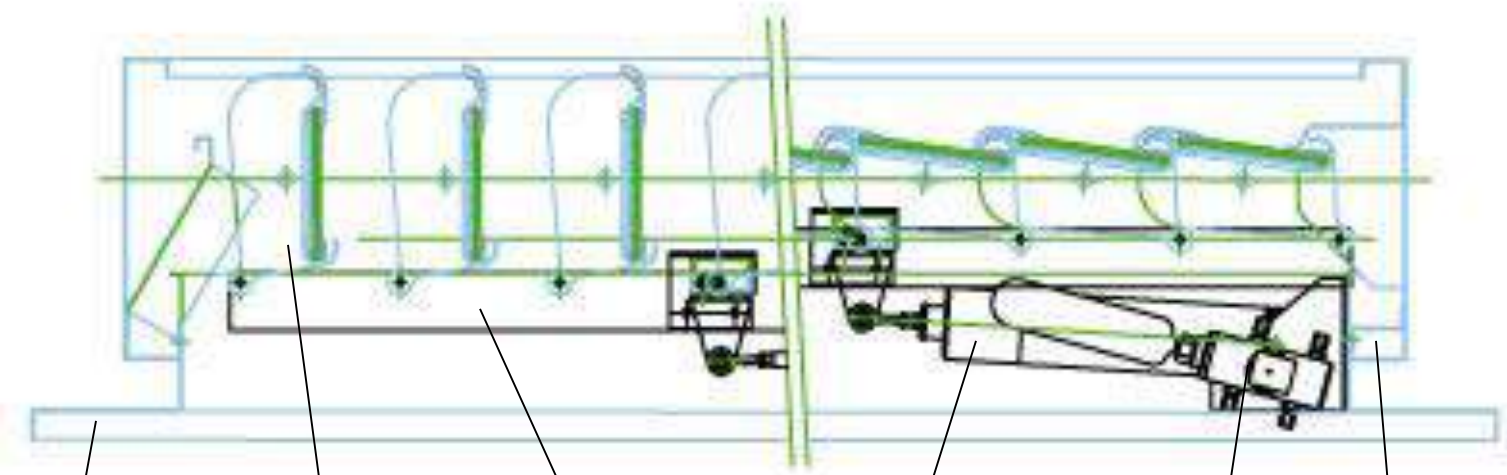
Advantages:

- Good aerodynamic efficiency and good U-value
- Available with opaque flaps
- Available as single-flap or as double-flap
- Flexible sizing ideal for use on flat roofs for all roof openings up to 4.75 m² (Duo version) or 3.75 m² (Delta version)

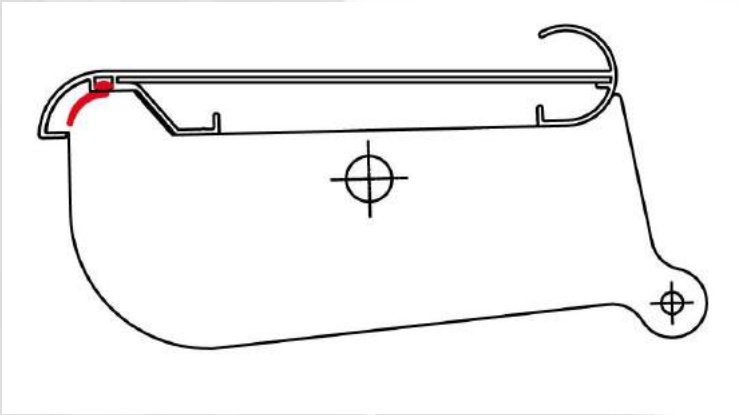
certification

MEGASTAR

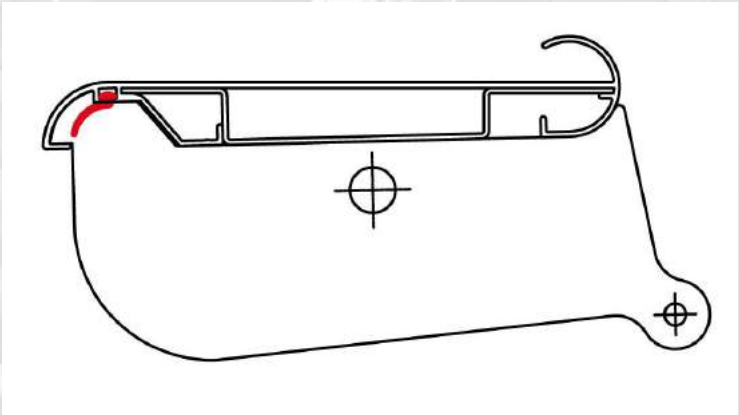
SMOKEJET


Louvre blade
Control crossbar
Mounting flange
Servomotor or pneumatic
cylinder with end-position locking
Surrounding
frame section
Thermal trigger (TAG)

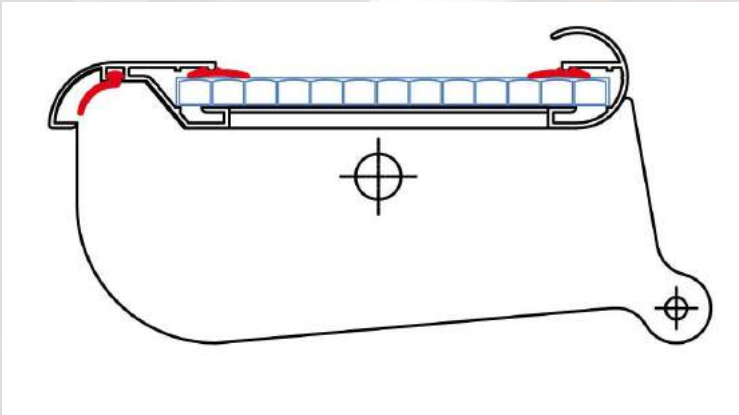
Louvres:



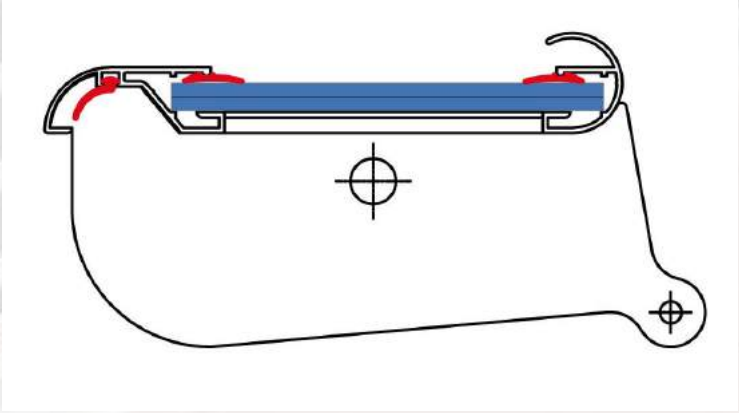
A1 – single skin aluminium louvre



A2 – double skin aluminium louvre



PC – polycarbonate louvre



GL – single skin LSG-glass louvre

Advantages:

- Ideal for use on Northlight roofs and roofs with an inclination of 30° to 90°, as well as in walls
- Suitable for everyday ventilation (full ventilation at a louvre position of 90°)
- Only one drive per unit necessary
- The pneumatic or electric drive is completely hidden inside the frame
- Only one control cable necessary

Advantages:

- Good aerodynamic efficiency
- Channels in the louvre blades conduct rainwater into a lateral drainage channel and prevent it from entering the building
- Individual customisation for all roof openings up to 5.71 m^2

certification

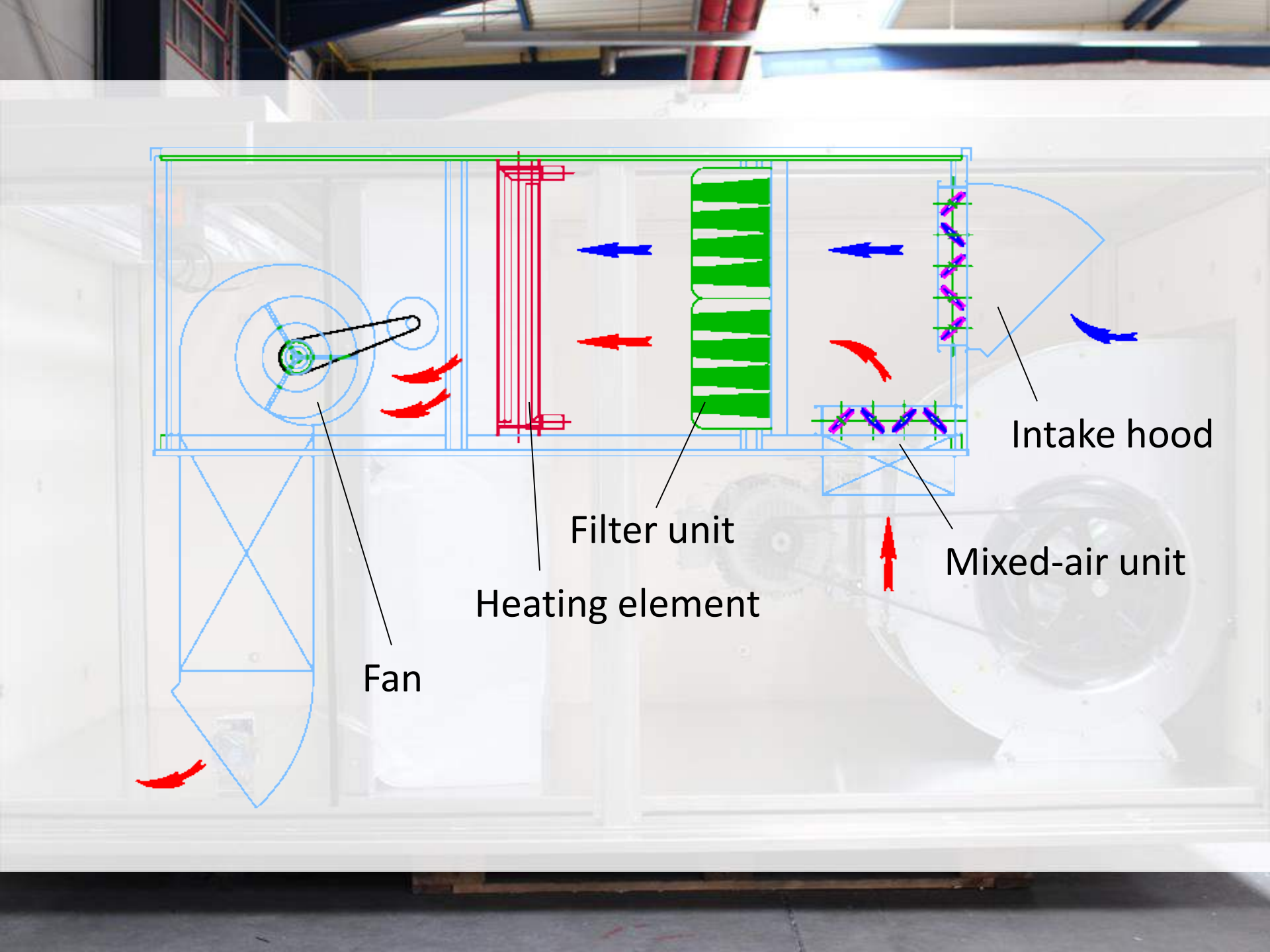
AIRSTAR

- High-performance ventilator as labyrinth ventilation system
- High-volume, rainproof and energy-free ventilation
- Can be fitted with splitter attenuators either on or under the roof
- (optional) louvres can be shut by means of a locking mechanism
- Due to the flat design and the resulting low windage area, the substructures on the building can be reduced to a minimum
- Rain-drainage channels consist of wind deflector plates, considerably improving ventilation in inflowing-wind conditions
- By removing the wind deflector plates, the louvres are easily accessible and can be easily cleaned

AIRJET

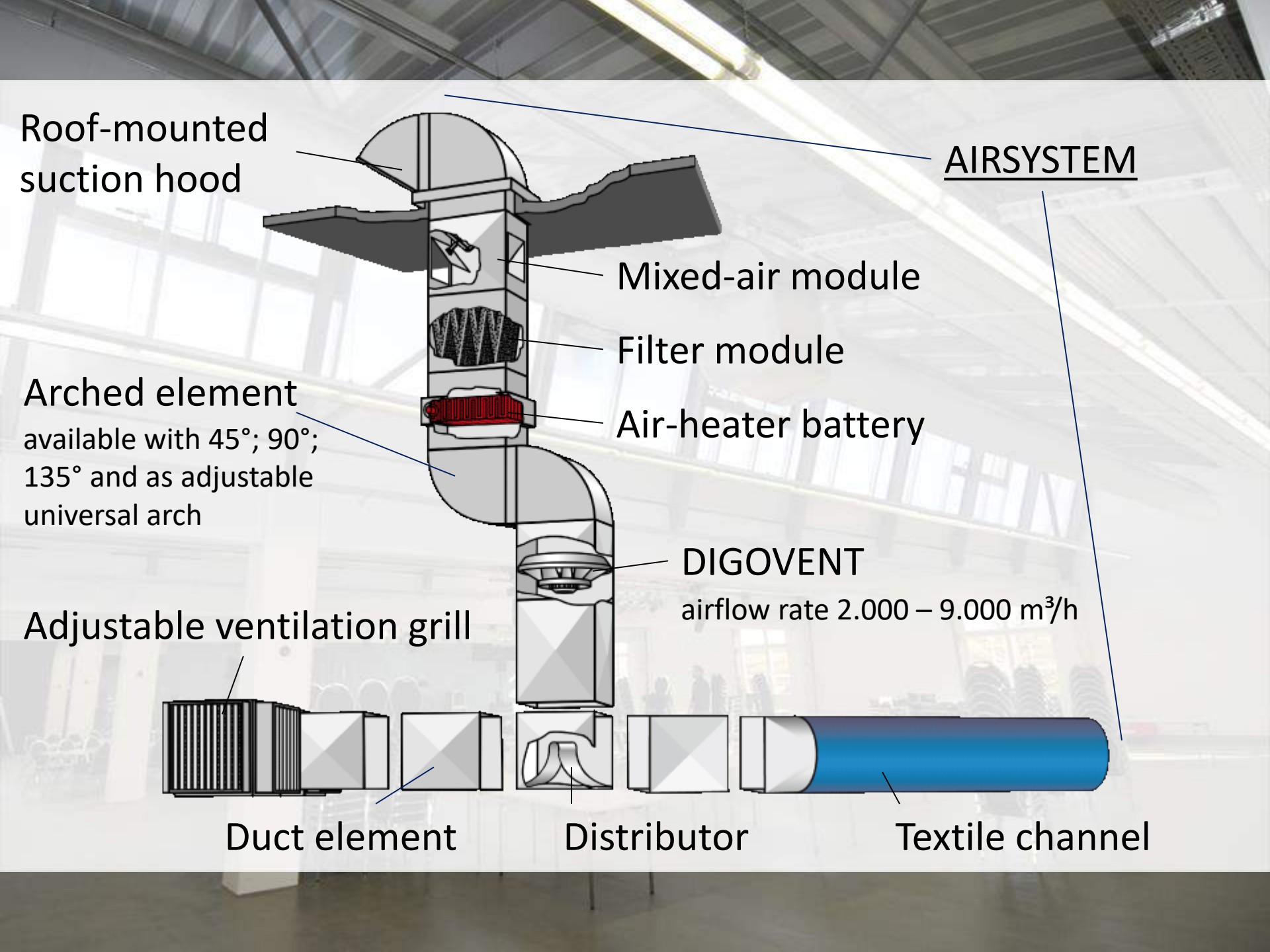
- Suitable for day-to-day ventilation as well as for air supply in smoke-and-heat-extraction applications (full ventilation at a louvre position of 85°)
- Individually adaptable to any building for wall openings up to 5.46 m²
- Robust pivot-point design (tested with 30,000 load cycles)
- Can be fitted with splitter attenuators
- Can be opened either by a pneumatic cylinder, an electric motor or by hand

Mechanical Ventilation


Intake hood
Filter unit
Mixed-air unit
Heating element
Fan

Centralised air inlet / air circulation system ISOVENT

- Modular design, which can be individually planned and easily modified if the application changes
- Fan section with high-performance dual-inlet radial fan rotor, dynamically and statically balanced
- Intake and circulated air are regulated by means of two flaps and a servomotor depending on the specification or by a duct sensor
- Insulated and soundproofed versions are available on request
- Airflow rate of 1.200 bis 22.000 m^3/h


Roof-mounted suction hood
AIRSYSTEM
Mixed-air module
Filter module
Arched element
available with 45°; 90°; 135° and as adjustable universal arch
Air-heater battery
DIGOVENT
airflow rate 2.000 – 9.000 m³/h
Adjustable ventilation grill
Duct element
Distributor
Textile channel

Thanks for listening