

PRODUCT DATASHEET

KAMELEON 5E

PRODUCT DESCRIPTION

Kameleon 5E is used for day-to-day ventilation and smoke ventilation and has been certified to EN 12101-2 and tested to EN 14351-1. In addition, these units can also be used for fire ventilation and smoke extraction to protect escape and rescue routes in the event of an emergency. They are designed for vertical installation in exterior walls and façades made of glass, steel or wood.

WHAT THIS UNIT IS USED FOR

Ideal applications include offices, shopping centres, factories and other commercial buildings.

FEATURES AND BENEFITS

- **Dual-purpose ventilation:** Provides both certified smoke extraction (EN 12101-2) and day-to-day natural ventilation in a single, discreet unit.
- **Excellent thermal and acoustic performance:** U-values as low as 1.0 W/m²K and sound insulation up to 40 dB help improve energy efficiency and indoor comfort.
- **Tested for façade integration:** Certified to EN 14351-1 for window and façade applications, ensuring compliance with building envelope performance standards.
- **Flexible design and installation:** Available in a wide range of sizes (470–2570 mm in both width and height), with universal or curtain wall adaptor frames to suit most façade types.
- **Customisable infill options:** Supports single, double, or triple glazing, polycarbonate, and aluminium panels with flap thicknesses from 8 mm to 58 mm..
- **Durable and corrosion-resistant:** Constructed from high-quality extruded aluminium (EN AW-6063), with anodised or powder-coated finishes in any RAL colour.
- **Cost-effective to install:** Lightweight design and modular sizing reduce structural load and simplify installation, helping to lower overall project costs.



Description of the product

The Kameleon KA 5E is a high-performance natural ventilator designed for vertical installation in exterior façades made of glass, steel, or wood. It provides both day-to-day ventilation and certified smoke extraction in accordance with **EN 12101-2** and **EN 14351-1**, making it ideal for offices, shopping centres, factories, and other commercial buildings.

Built from corrosion-resistant extruded aluminium (EN AW-6063), the unit features continuous thermal insulation using 6.6 polyamide with 25% glass fibre. EPDM gaskets and vulcanised corner seals ensure excellent airtightness and thermal performance (U-values up to 1.0 W/m²K).

The ventilator is available in two frame types:

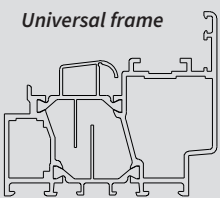
- **Universal frame** for wall openings
- **Adapter frame** for curtain walling (26–36 mm profile depth)

A wide variety of infill options are supported, including:

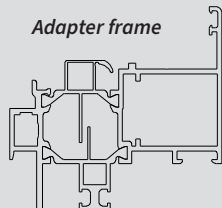
- Single, double, or triple glazing
- Polycarbonate
- Aluminium panels
- Flap thicknesses ranging from 8 mm to 58 mm

The Kameleon 5E can be actuated by 24 V DC electric chain drives or pneumatic cylinders. Fire-responsive models include thermal release systems with CO₂ cartridge options and trigger temperatures (e.g. 68°C or 93°C).

Universal frame



Adapter frame



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Technical details

HINGE POSITION

- Bottom hinge, top opening with catch and window limiter
- Top hinge, bottom opening

DIMENSIONS

- Frame width: 470 mm to 2570 mm (in mm increments)
- Frame height: 470 mm to 2570 mm (in mm increments)

FRAME

There are 2 frames available. One variant is designed with adaptor frames for installation into curtain walling. Designed for a adapter thickness of between 26 and 36 mm. The other variant is for uni-versal use and is designed for installation into wall openings.

FLAP VERSIONS - INFILL MATERIALS

- With large profile flap: 8 mm to 58 mm thick
- With small profile flap: 20 mm to 30 mm thick
- Single, double or triple glazing
- Polycarbonate
- Aluminium infill panel

ACTUATORS

The Kameleon 5E ventilator is opened and closed either electrically or pneumatically by one or two drive units in each case.

The following actuators are available:

- 24 V DC electric chain drives (*various available versions*)
- Two concealed double-acting pneumatic cylinders
- One double-acting pneumatic cylinder
- Thermal release (*for pneumatic cylinder*)

The ventilator is using a thermal ventilation valve with combined CO₂ bottle as primary energy source for automatic release in a fire. Different release temperatures (for example 68°C or 93°C) are possible.

Performance classes

FOR COMPLIANCE WITH EN 12101-2:

- Wind load: up to WL 3000
- Operating temperature: T(00) / T(-15)
- Resistance to heat: B300 - E
- Reliability RE 1000 Dual function (11,000 life cycles for dual purpose smoke ventilation and day-to-day ventilation)

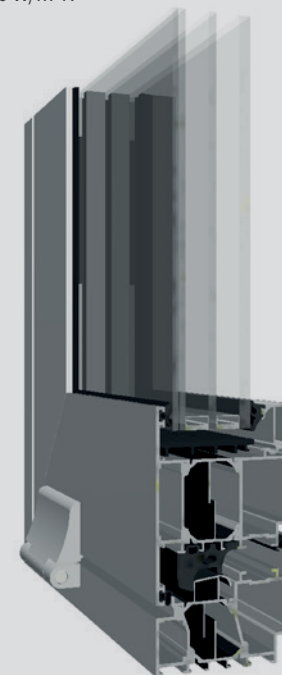
FOR COMPLIANCE WITH EN 14351-1:

- Air permeability: class 4 - Resistance to weather: Class E1200
- Additional classes

Sound reduction: up to 40.0 dB

U value: up to 1.0 W/m²K

Kameleon KA 5E profile section



KEY FEATURES

Very good performance classes to

EN 12101-2

Tested in accordance with **EN 14351-1**

Excellent air tightness with U value up to **1.0 W/m²K**, depending on glazing

Manufactured in accordance with the requirements of **ISO 9001** (quality standard)

High volume smoke extraction

Daylight entry deep into the building

Available up to a maximum width x length of 2570 x 2570 mm

Low installation costs

Available in all RAL colours

