KAMELEON KA 5E DATA SHEET

COLT

KAMELEON KA 5E
NATURAL SMOKE AND DAY-TO-DAY VENTILATOR

DATA SHEET



PURPOSE:

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:

- Very good performance classes to EN 12101-2
- Tested to EN 14351-1
- Manufactured in accordance with the requirements of ISO 9001 (quality management standard)
- High-volume smoke extraction
- Provides good daylight entry
- Low installation costs

Its technical details are described overleaf.

We believe people deserve to work & live in safe & beautiful buildings.

SMOKE CONTROL

DATA SHEET KAMELEON KA 5E

DESCRIPTION OF THE PRODUCT

Kameleon 5E is used for day-to-day ventilation and smoke ventilation and has been tested according to EN 12101-2 and EN 14351-1.

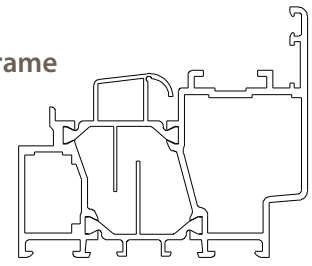
Kameleon 5E provides natural ventilation and permits daylight entry in offices, shopping centres, factories and other commercial buildings. In addition, these units can also be used for fire ventilation and smoke extraction to protect escape and rescue routes in the event of an emergency. They are designed for vertical installation in exterior walls and façades made of glass, steel or wood.

This day-to-day and smoke ventilation unit is made of corrosion-resistant, extruded aluminium to EN AW-6063 class quality according to EN 573-3 with rolled polyamide insulation.

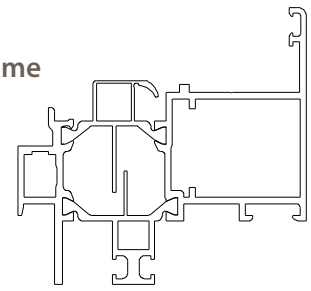
There is an EPDM gasket between the frame and the flap and vulcanised middle seal frames at the corners. The width of the frame profile is 65 mm and the total depth of the frame is 75 mm.

The Kameleon 5E has excellent thermal insulation with continuous flush insulation made of 6.6 polyamide with 25% glass fibre content. The Kameleon can be anodised or powder-coated in RAL colours. Special flange types are available on request.

Universal frame



Adapter frame



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 universal 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 value 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/m^{2}K



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** and a very good **U value** up to **1.0 W/m^{2}K**
- **Suitable for all applications**
- 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**