



Kameleon 4

Natural Glazed Ventilator

Data Sheet

Kameleon 4 is suited for application in any angle from 15° to 90° from the horizontal and is bottom hung. It has concealed, fail safe open controls. It is manufactured to the ISO 9001 quality standard.

CONSTRUCTION

All principal components of the base and flap have been manufactured from aluminium extrusions to BS 1474 Grade 6063.

The frames of both the base and flap can be either thermally or non - thermally broken. The ventilator has continuous inner and outer seals.

PANEL TYPE OPTIONS

- Glass.
- Sandwich panels. Double skin aluminium with infill material.

The permissible thickness of the panel infill or glazing depends upon whether the version has thermal breaks, what size the ventilator is and which type of controls have been selected. Glazing from 6mm to 32mm is available but restrictions on ventilator size and type apply. Colt will advise on this.

THERMAL BREAK OPTIONS

- Non- thermally broken base and flap (with single glazing only)
- Thermally broken base and flap (with both single and double glazing)

DIMENSIONS

Overall body sizes (measured from outer frame to outer frame):
900mm to 2000mm wide
965mm to 1800mm high

The maximum permitted dimensions depend on the type of panel, and the ventilator geometry. In addition, local building regulations may limit the ventilator sizes. Colt will advise on this.

CONTROLS OPTIONS

- Pneumatic. The ventilator is closed by two pneumatic cylinders and opened by gas springs in a fail safe manner. It is latched in its closed position.
- Either 230 v ac electric or 24 v dc electric. The ventilator is controlled by a tubular motor and a specially developed gas spring assembly. The ventilator is drive closed, fail safe open utilising dual gas springs and held closed in the shut position.

- One Per Vent (OPV) addressable electronic controls. The ventilator is opened and closed by two linear actuators controlled by an integral module and is latched in its closed position. The ventilator opens in a fail safe manner. This option is not available for day to day control of vents.

All control systems are concealed. Where Kameleon 4 ventilators are to be used for day to day operation, it is necessary to limit the number of operations per day and time interval as well to ensure that the control system will close the vents in high wind speeds.

INSTALLATION AND OPENING

The ventilator is designed for installation at an angle of between 15° to 90° to the horizontal plane. The permitted installation angle depends upon what infill or glazing panel has been chosen, what the size the ventilator is and which type of controls have been selected. The ventilator opens to an angle of approximately 55°.

Architectural Solutions

Climate Control

Smoke Control

Service and Maintenance

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FINISHES

- Mill finish
- Polyester powder coated in a standard 40 micron single layer thickness in any RAL colour.

PERFORMANCE

Kameleon 4 has the following attributes, which may vary according to the chosen ventilator configuration.

- Coefficient Cv values: up to 0.68
- Reliability: Accelerated life cycle tests in excess of 10,000 operations
- Snow load: Kameleon 4 will open against a snow load of 300N/m²
- Operating temperature: -20°C to +70°C (outside ambient)
- Wind suction load: 3000 N/m² and 18m/s side wind test

- Fire Performance: Fail safe on detection of fire and successfully tested in accordance with Clause 4.9 of BS 7346: Part 1: 1990.

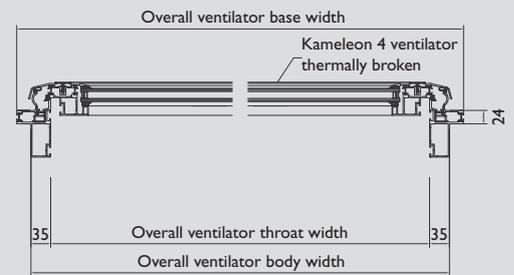
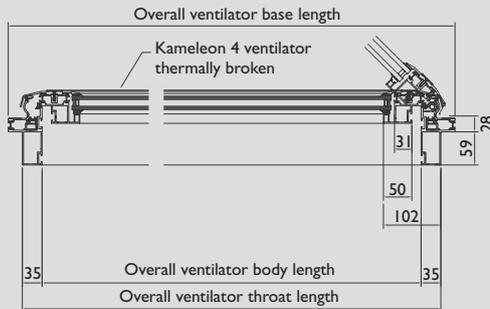
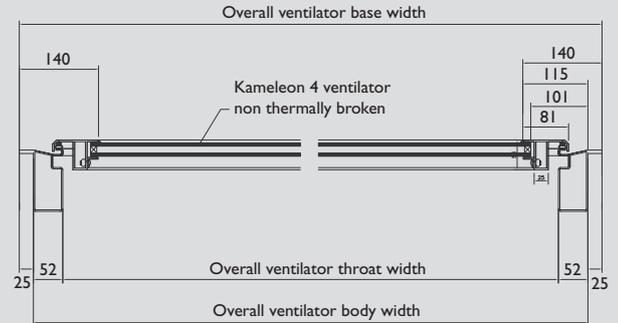
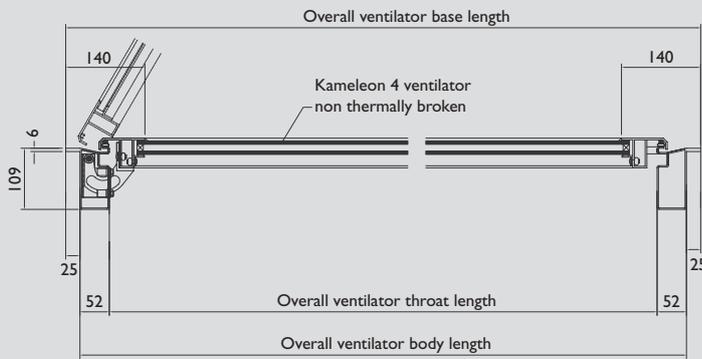
Air Permeability: Kameleon 4 achieves a Class 4 classification to EN 12207: 2000 (<0.75m³/hr/m and < 3m³/hr/m² at a reference test pressure of 100 Pa).

Watertightness: Kameleon 4 achieves a minimum classification of 9A to EN 12208: 2000 (no leaks at a test pressure of 600 Pa).

Kameleon 4 can be designed to provide an overall ventilator U-value of up to 1.5 W/m²/K. These values vary depending on the chosen configuration.

FEATURES AND BENEFITS

1. Extremely low profile and slender framework
2. Thermally and non thermally broken options for both glazing and base frames
3. Excellent performance: low U-value, low air permeability, high water tightness
4. Wide range of controls options and panel types
5. High quality manufacture to ISO 9001



Clerkenwell Hotel, London



Sky Plaza, Hong Kong



Detail of electric version