### Self-regulating flap window ventilator PQ mm DUCO Ventilation & Sun Control - TopVent CK SR (AK+)

##### Description

The TopVent CK SR is a thermally insulated aluminium self-regulating flap window grille with self-regulating flap for the supply of fresh air in the living areas. The vent is equipped with a 15 mm flange for mounting in a recess. Optionally available in an acoustic version for situations with light (AK) and/or heavy noise exposure (AK+).

The standard self-regulating flap ensures energy gain and a constant flow rate. The flap ensures that the ventilation volume remains the same in case of increasing wind, i.e. the increasing wind is smoothed out. The flap responds excellently at a pressure difference as low as 1 Pa, avoids draughts and limits energy loss and overventilation. The length of the operable flap kan be limited according to the desired or required flow rate.

The inner grid with invisible perforation is easily removable, washable and insect repellent. The inner cover provides an upward air flow and comfortable indoor climate (Coanda effect).

##### Application

* Compact transom mounting.
* Invisible mounting behind the facing brick.
* Wind-loaded applications such as high-rise buildings (up to 40m) and coastal apartment buildings.
* Both (major) renovation and new build projects.

##### Material

* Aluminium : EN AW – 6063 T66
* Plastic parts: ABS and PVC (impact-resistant, colourfast and weatherproof)
* Damping foam AK(+): acoustic foam 34 kg/m³

##### Finish / Surface treatment

* Powder coating (enamelled polyester powder coating): according to Qualicoat Seaside type A, layer thickness 60-80 µm
  + DUCO300RAL (gloss, matt or fine-textured)
* Colour of end caps = white / black

##### Technical specifications

Fitting depths:

|  |  |
| --- | --- |
| Type | Recess depth (mm) |
| Medio | 115 mm |
| Alto | 165 mm |
| Largo | 215 mm |

Ventilation values:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type | Airflow (Q) in l/s/m at … | | | | Airflow (Q) in m3/h/m at … | | | | Equivalent area at 1 Pa (mm2/m) | Geometrical free area (mm2/m) |
| 1 Pa | 2 Pa | 10 Pa | 20 Pa | 1 Pa | 2 Pa | 10 Pa | 20 Pa |
| TopVent CK SR | 12,3 | 17,3 | 20,7 | 22,6 | 44,2 | 62,2 | 74,6 | 81,5 | 15616,1 | 17000 |
| TopVent CK SR AK | 12,6 | 19,2 | 19,3 | 19,0 | 45,4 | 69,0 | 69,4 | 68,3 | 16040,1 | 17000 |
| TopVent CK SR AK+ | 7,6 | 10,4 | 11,8 | 13,9 | 27,3 | 37,3 | 42,4 | 50,1 | 9645,2 | 12000 |

Sound reduction:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Type | Sound absorption Dn,e,W (C;Ctr) in dB | | | | | |
| OPEN position | | | CLOSED position | | |
| Medio | Alto | Largo | Medio | Alto | Largo |
| TopVent CK SR | 28 (0;-1) | | | 48 (-1;-2) | | |
| TopVent CK SR AK | 33 (-1;-2) | 35 (-1;-2) | 37 (-1;-2) | 51 (-1;-3) | 55 (0;-3) | 54 (0;-3) |
| TopVent CK SR AK+ | 36 (-2;-3) | 38 (-1;-3) | 40 (0;-2) | 52 (-1;-3) | 56 (-1;-4) | 59 (-1;-5) |

All octave band values (in dB) are freely available from DUCO ‘Ventilation & Sun Control’.

F-Factor values

|  |  |  |  |
| --- | --- | --- | --- |
| Type | TopVent CK SR | TopVent CK SR AK | TopVent CK SR AK+ |
| Medio | 0,61 | 0,74 | 0,77 |
| Alto | 0,66 | 0,79 | 0,81 |
| Largo | 0,68 | 0,81 | 0,84 |

Leakage rate at 50 Pa (Q1c,50Pa): 0,200 m³/h\*m

Wind tightness (class): 4 (EN 12207)

Water tightness (in closed position): 1350 Pa

Water tightness (in open position): 50 Pa

Thermal break: Yes

Insect protection: Removable, punched internal louvre grille

Substraction of glass height: 0 mm

Vent height: 61,4 mm

Built-in height: 65 mm

Surface area: 0,060 m²/m

Visible outside opening: 19 mm

Dimension X: Medio: 120 mm

Alto: 170 mm

Largo: 220 mm

Total fitting depth: Medio: 167 mm

Alto: 217 mm

Largo: 267 mm

Maximum vent length under warranty: 4000 mm

*Split flap from 2050 mm grille length.*

Operation: …

In steps, manually

In steps, with rod

##### Nature of the agreement

Presumed quantity (PQ)

##### Measurement method

Unit of measurement: mm

Measurement code:

For commercial and technical assistance (assembly and installation instructions, spare parts lists, calculations, etc.), please contact your regional dealer or the DUCO 'Ventilation & Sun Control' project department.