**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand :Invisivent® *EVO***

**Type : Invisivent® *EVO* HR Ultra**

**Manufacturer and reference:**

The Invisivent® *EVO* HR Ultra is manufactured and supplied by Renson Ventilation

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**Description:**

The RENSON® Invisivent® *EVO* HR Ultra is a sound-absorbing, thermally broken, discrete and self-regulating flap ventilator that can be installed on top of an aluminium, timber or PVC window frame and that has been developed for high rise applications. Inside is a triple series of 3.9 x 9.25mm perforations that acts as an insect mesh (removable for cleaning purposes). A rain cap guarantees an excellent watertightness (up to 1200Pa), there is extra tight fixation to the window by means of extra screws, and extra clips in the interior profile (12 per meter) guarantee a perfect closure. Reinforcement plates in the body of the box (max. every 400mm) guarantee good stability of window and vent.

Optionally available with Pollux filter: for strongly fine dust and pollen impacted environments.

**System operation and performance:**

Self-regulating

Thermal conductivity: U-value = 2.2 W/m2K

Watertightness up to 250Pa in open position and up to 1200Pa in closed position.

Air leakage at 50Pa: <3% in closed position

Burglar resistance: class 2

**Airflow and sound reduction:**

Dn,e,w (C;Ctr) open (dB) 42 (0;-2)

Dn,e,w (C;Ctr) closed (dB) 64 (-1;-4)

Q at 1 Pa (l/s/m ) 5,5

Q at 1 Pa (m³/h/m) 19,9

Q at 2 Pa (l/s/m ) 9,1

Q at 2 Pa (m³/h/m) 32,8

Q at 10 Pa (l/s/m) 8,0

Q at 20 Pa (l/s/m) 9,8

Equivalent area (mm²/m) 7016

**Dimensions / Size Range:**

Height: 65mm

Fits to frame depths of: 140-154, 155-169, 170-184 mm (or more upon demand)

Special extension profiles available to install PVC-body 140-154mm onto window frame depths less than 140mm

Maximum length: 6000mm

**Ventilator Construction:**

Profile: manufactured from aluminium alloy Al Mg Si 0.5

Thermal bridge: PVC

Pivoting and self-regulating flap: PVC.

End caps: ASA polymer type Luran S (colour-fast, weather and UV-resistant)

Noise-damping material: absorbent plastic foam (removable for cleaning purposes)

**Surface treatment:**

Natural anodised (EV6/EV1-SAA) process (20 micron): pre-treated and anodised.

Polyester powder coating in RAL colours (60 to 70 micron): aluminium profiles pre-treated to resist corrosion to guarantee (dual colour possible).

End cap colours: white, black, grey or other colours in bulk or painted in the frame colour (dual colour possible).

**Controls Options:**

Manual: internal tip vent with an optional cord or rod (16 stepped positions)

Motorised: electric motor 24 volt DC (continuous adjustment)

Control flap is by default split up in 2 separately controllable parts (according to a 30/70-proportion) for lengths up to 3000mm, and in 3 parts for lengths >3000mm.

Optional plastic air flow limiters can be clipped into the interior flap to regulate airflow.

Integrated soft PVC gasket makes flap wind- and watertight in the closed position.

**Installation:**

The vent is attached to special plastic mounting clips that are screwed to the window frame (different screw holes depending on the position of the thermal break in the window frame) to guarantee correct operation. The aluminium outside profile slides into the PVC profile (first clicked upon the mounting clips) using a telescopic sliding system. For greater stability, screws can be inserted through the profiles into the window frame. Plastic side mounting plates are optionally available for a better fit to the window, and wall bracket for a good fit to the wall.

**Standards:**

EN ISO 140-10, EN ISO 717-1, EN 1026, EN 1027, EN 13141-1, EN 12020-2, EN AW 6063 T66, NBN D50-001, EN 10077-2, DIN 16491prEN:1627, 1628, 1629, 1630.