**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand : THM90 EVO**

**Type : THM90 EVO – THM90PB EVO – THM90TR EVO**

**Manufacturer and reference:**

The THK90 is manufactured and supplied by Renson Ventilation Tel: 01622 754 123 Email: [vents@rensonuk.net](mailto:vents@rensonuk.net)

**Description:**

The RENSON® THM90 EVO is a flush, thermally broken, self-regulating window ventilator. The flat perforated (series of 2.7 x 18.5mm) inner profile which acts as an insect mesh. External profile is flat making it suitable for sliding doors and has 14.5 x 37mm perforations to let air through.

**System operation and performance:**

Self-regulating: P3.

Thermal conductivity: U-value = 3.8 W/m2K.

Watertightness: closed position 350Pa or open position 20Pa.

Air Leakage: 50Pa <15%.

Dn,e,w (C;Ctr) open (dB) 26 (0;0)

Dn,e,w (C;Ctr) closed (dB) 45 (-1;-1)

Q at 1 Pa m³/hr/m 33,5

Q at 2 Pa m³/hr/m 50,0

Q at 1 Pa l/s/m 9,3

Q at 2 Pa l/s/m 13,9

Equivalent area: mm²/m 11841

**Dimensions / Size Range:**

Glass reduction: 90mm.

Height: 105mm.

Fits to glass depths of: 20, 24, 28, 33 mm (other thicknesses available on request).

Maximum length: 2500mm (manual) or 2000m (motorised).

**Ventilator Construction:**

Profile: manufactured from aluminium alloy Al Mg Si 0.5.

Thermal break: PVC

Pivoting and self-regulating flap: PVC

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

**Surface treatment:**

Satin anodised (EV6/EV1) (20 micron): pre-treated and anodised.

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

End cap colours: white or black (other colours available on request).

**Controls Option:**

Manual: end caps control – open (blue) and closed (red). Rod (standard, with reduction gear or sliding knob) or cord optional (5 stepped position).

Motorised: 24V DC

**Installation:**

Installation on glass (timber, aluminium or PVC frame) but can be installed at transom with an optional transom profile. Glazing gasket recommended. THM90PB EVO = installation at bottom of the window and THM90TR EVO = installation at transom.

**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 1077-2, DIN16491.