**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand : AK80**

**Type : AK80***evo*

**Manufacturer and reference:**

The AK80*EVO* is manufactured and supplied by Renson Ventilation Tel: 01622 754 123 Email: vents@rensonuk.net

**Description:**

The RENSON® AK80*EVO* is a thermally broken, compact acoustic window ventilator for installation at transom. Perforations in the interior profile act as an insect mesh.

**System operation and performance:**

Self-regulating (as from 8 Pa)

Thermal conductivity: U-value = 2.3 W/m2K (for AK80*EVO*/4: 2.1 W/m2K).

Wind resistant: up to 650Pa in closed position.

Watertightness: up to 50Pa in open position and up to 650Pa in closed position.

**Airflow and Sound Reduction**:

 **AK80***EVO***/1 AK80***EVO***/2 AK80***EVO***/3 AK80***EVO***/4**

Dn,e,w (C;Ctr) open (dB) 47 (0;-3) 44 (-1;-4) 41 (-1;-3) 33 (-1;-2)

Dn,e,w (C;Ctr) closed (dB) 51 (-1;-3) n.p.d n.p.d n.p.d

Q at 1 Pa (l/s/m ) 0,6 0,9 1,3 4,1

Q at 1 Pa (m³/h/m) 2,0 3,2 4,7 14,8

Q at 2 Pa (l/s/m ) 1,1 1,7 2,1 6,6

Q at 2 Pa (m³/h/m) 4,1 6,2 7,5 23,6

Q at 10 Pa (l/s/m) 3,5 5,4 6,6 20,5

Q at 20 Pa (l/s/m) 3,7 5,8 6,3 19,6

Equivalent area (mm²/m) n.p.d. n.p.d. n.p.d. n.p.d.

**Dimensions / Size Range:**

Height: 80 mm (total height with flanges: 126 mm).

Maximum length: 2000mm (1250mm for cord control)

**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).

Sound absorbing material: synthetic foam.

**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. (bicolore possible)

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

**Control options:**

Manual, cord, rod: 5 positions

Motorised: 24V DC

**Installation:**

Intended for installation at transom but can be mounted on glass (timber, uPVC or aluminium).

**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.