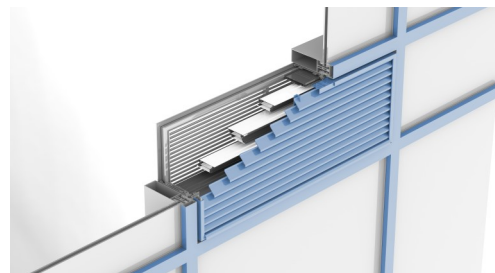


WINDOW AIRCOOL SPECIFICATION DOCUMENT

Product Description:

Passivent Aircool Window Ventilators are a range of controllable ventilators primarily for installation in external facades in commercial buildings. The electrically-actuated ventilators provide controlled air intake and extract in natural (passive) ventilation systems, and may also be used for air intake or extract in mechanical ventilation systems. They are particularly suitable for night cooling strategies, where daytime heat build-up is dissipated from the structure during the night.



Construction Details:

The Window Aircool Unit is supplied as separate internal and external modules to provide flexibility fitting into a variety of glazing systems.

External Louvres: Frame and weather louvres are extruded aluminium, powder coated to standard RAL colour to suit, with 4mm black polypropylene insect screen and ABS thermal break across glazing bar.

Internal Louvres: Double skin aluminium louvre blades with ABS thermal break and blade compression seals. Actuator provided with terminal block and removable aluminium cover for ease of maintenance. Actuators can be mounted on either left or right hand side of the louvre viewed from internal side. Right hand side is standard.

Cover Grille: Frame and blades are extruded aluminium and supplied to RAL9016 gloss (white). Other colours are available upon request.

Performance data:

Materials used for internal frame and louvres when closed achieve a Class 1 rating when tested to BS 476: Part 7: 1987.

Weatherability rating to BS5368: Part 2 – 1000 Pascals.

External louvres provide 98.6% rain rejection when independently tested at BSRIA using the BS EN 13030:2001.

Tested to BS 6375: Part 1: 1989 the closed ventilators provide an air leakage of $9.7\text{m}^3/\text{hour}/\text{m}^2$ at 50 Pa pressure.

$0.54\text{m}^3/\text{hour}/\text{m}^2$ at a more realistic operating pressure of 2 Pa.

Appraised under BS EN ISO 9001.

All Aircool louvres have a Cd Value Inflow of 0.42 and Outflow of 0.45 (with internal cover grille).

All Aircool louvres have a U-value of $0.86\text{W}/\text{m}^2\text{K}$ through the motorised blades when closed in the vertical position (window mounted).

Percentage ventilation free area ranges from 22-43% dependent on product size.

Available Sizes:

Heights of 270 up to 1505mm (day light opening).

Lengths of 400 up to 3000mm. (day light opening).

Maximum 3m^2 with maximum height of 1505mm

Minimum glazing thickness 24mm.

Maximum glazing thickness of 36mm.

Depth front to back (including cover grille) 183mm, plus glazing thickness (i.e. 28mm glazing = 211mm deep unit).

Actuator Type (supplied with product):

24V Modulating (0-10V signal).

Options:

Dummy (non-operating) and double banked fixed weather louvre versions are available.

External weather louvres can be provided with additional support mullions to resist vandal attack.

Thermal option available as inlet louvres.

Acoustic options available.

Cover Grille Options:

One way, egg crate grille and heavy duty.

Information Update

PVCTI9 - Issue 2 - March 2025

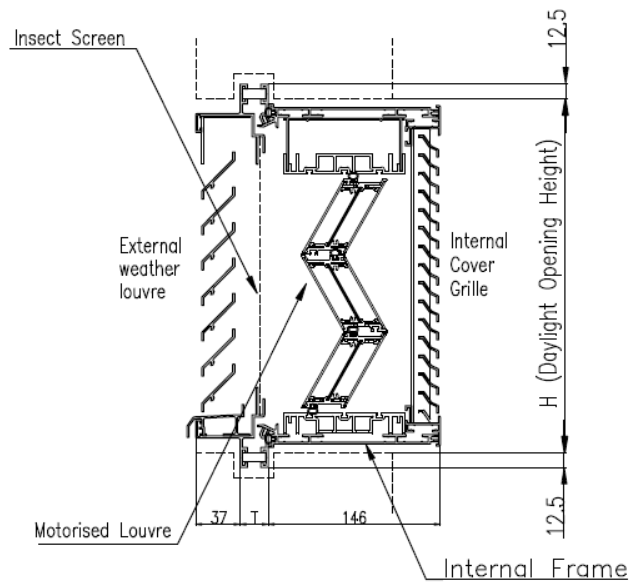
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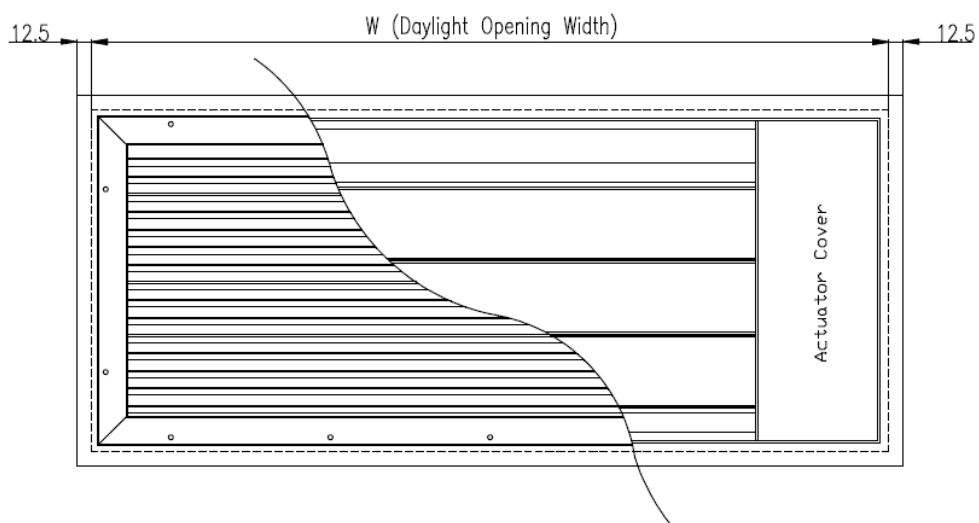
Technical Drawing:

Side View



Front View

(Dotted line shown = daylight opening between mullions and transoms)



Passivent maintains a policy of continuous development and reserves the right to amend product specifications without notice.