**Invisivent® COMFORT ultra**

Renson Ventilation, IZ 2 Vijverdam, Maalbeekstraat 10, 8790 Waregem – Belgium

Tel. +32 (0)56 62 71 11, fax +32 (0)56 60 28 51, [info@renson.be](mailto:info@renson.be) www.renson.eu

product features (text marked in red can be deleted at your discretion)

* Type: Thermally broken, noise-reducing, self-regulating valve ventilation for installation on the window
* Acoustic comfort:
  + Equipped as standard with acoustic damping material (polyurethane foam)
  + Integrated replaceable acoustic foam: no additional acoustic module to the inside
  + Meets acoustic class 2 according to NBN S 01-400-1
* Self-regulating non-return valve:
  + Self-regulating effect at pressure differences of 10 Pa
  + Automatically responds to pressure differences/wind strength and cannot be influenced by the user
  + Non-return valve: prevents cross-ventilation and the associated energy losses and comfort problems
* Adjustable aluminium inner valve directs the airflow upwards: Coandă effect
* Non-punched, controllable inner valve with gripping edge: 5 positions
* Condensation-free, due to the thermally insulating profile on the inner valve
* Insect-proof: invisible, perforated inner profile (3.9 x 9.8 mm)
* Easy cleaning: Removable inner profile + removable acoustic foam
* Controls: manual, cord, rod, motor
* Finish:
  + Anodised (F1) / powder-coated in the same RAL colour as the window profiles / bicolour
  + Colour of endcaps = colour of window profile (colour differences are possible)
* Construction height: 65 mm / visible outside opening: 33 mm
* Recessed installation on the window profile (0 mm glass reduction):
  + Suitable for window profile thicknesses of 50 to 202 mm (and thicker on request)
  + Completely recessed installation both indoors and outdoors (completely invisible)
  + Optional designer outer cover available
* Perfect airtight connection to the window profile due to coextruded, flexible sealing over the entire length of the window ventilation, including the endcaps.
* Installation:
  + Directly anchor the window ventilation to the window with screws
    - Screw zone provided in the PVC body
    - Additional screw zone through the aluminium outer profile makes it possible to anchor the product at any time without damaging the thermal bridge of the window profile
    - Quick and easy installation due to the monobloc principle
  + Guaranteed stability of window and louvre due to monobloc principle + additional reinforcement with screws in body (every 280 mm)
  + Integrated Euronut dowel slot for good anchoring to the wall
* Flexible and aesthetic interior finishing:
  + Airtight wet plastering: easy to do due to removable vertical rib, which allows a standard plaster profile (commercially available) to be used.
  + By removing the vertical rib, a recess is created in which an MDF board, plasterboard, or PVC panel can be placed.
  + A buffer area prevents plastering of the inner valve
* Optionally available with Pollux filter: for rooms with high particulate and pollen levels
* Optionally in (HR) version:
  + standard with design cap
  + perfect sealing of the inner valve at wind loads up to 1000 Pa in closed position due to adjusted clips in the inner profile
  + split in two identical, separately controllable parts (when the inner valve > 1000 mm and < 4000 mm) OR in 3 identical, separately controllable parts (when the inner valve > 4000 mm)

APPLICATION

* Can be combined with Invisivent AIR in the same project due to the similar look & feel
* Dimensioned at 10 Pa: can be used as standard as supply ventilation in dry rooms where an extraction pointis also provided
  + Optimal control of the airflow (demand controlled ventilation system determines how much air enters)
  + Allows for the integration of a non-return valve to minimise cross-ventilation and energy losses

performance level

* **Self-regulating**: yes
* **U value**: 1.7 W/(m²K)
* **F value:** 0.88
* **Water resistance up to**: 900 Pa in closed position

1200 Pa in closed position (for HR version)

* **Water resistance up to**: 150 Pa in open position

250 Pa in open position (with design exterior cover/for HR version)

* **Leakage rate at 50 Pa**: < 15% (in closed position)
* **Burglar resistance**: class 2 (if window is WK2)
* **Sound damping Dn,e,w (C;Ctr):**
* In open position: 42 (0;-2) dB
* In closed position: 51 (-1;-3) dB

|  |  |
| --- | --- |
| **Properties:** | |
| Airflow Q at 1 Pa | 1.9 l/s/m |
| Airflow Q at 1 Pa | 6.7 m³/h/m |
| Airflow Q at 2 Pa | 3.3 l/s/m |
| Airflow Q at 2 Pa | 11.8 m³/h/m |
| Airflow Q at 10 Pa | 10.0 l/s/m |
| Airflow Q at 20 Pa | 14.4 l/s/m |
| Equivalent area | 2356 mm²/m |
| Self-regulating | N/A |
| Surface area | 0.065 m²/m |