**Invisivent® COMFORT ultra**

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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

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| **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 |