



Invisivent® *EVO*

The most discrete, self-regulating and acoustic overframe ventilators



Invisivent® EVO

The most discrete, self-regulating overframe flap ventilator

With the Invisivent® EVO, Renson® has developed the most discrete self-regulating window ventilator in the world that combines a healthy living comfort with a maximum visual comfort.

Installation on top of the window frame

The Invisivent® EVO is a thermally broken window ventilator that is installed on top of the aluminium, timber or PVC window frame. This almost invisible installation guarantees maximum light penetration as the glass size is not reduced.

Thermally broken

No cold air transfer from outside to inside.

Insect mesh

i-Flux®

Thanks to its self-regulating flap, the Invisivent® EVO ensures the supply of fresh and healthy air without draughts. Moreover, the interior profile deflects the incoming air upwards, causing an optimal spread of fresh air in the room.

Burglar proof

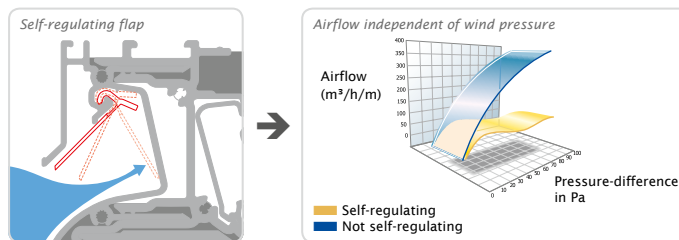
The Invisivent® EVO range meets the requirements of burglary resistance class 2 according to standard prEN 1627 to 1630, and therefore suits to be used on a window class WK2.



i-Flux® technology

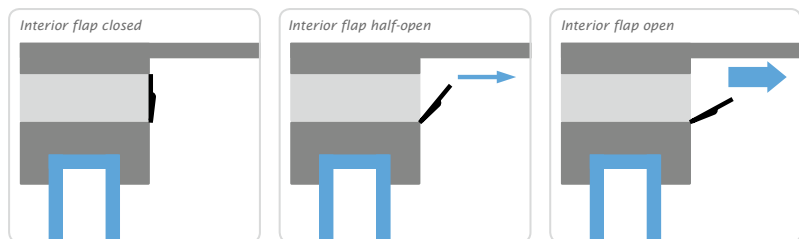
1. Airflow independent of wind pressure:

by means of a self-regulating flap in the ventilator that immediately reacts to wind pressure differences, the airflow remains constant (also at high wind forces) and draught is avoided.



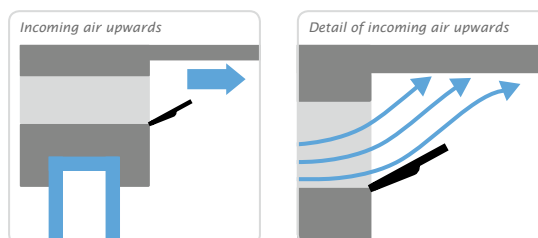
2. Adjustable airflow by means of a manually adjustable interior flap:

the inhabitant can determine himself which level of airflow is required (e.g. in function of the occupancy of the room).



3. Incoming air deflected upwards for an optimal comfort:

by the specific shape of the interior flap, incoming fresh air is deflected upwards, ensuring an optimal spread of the fresh air in the room and hence an optimal comfort for the inhabitants.



= MAXIMAL COMFORT + MINIMAL ENERGY LOSS



Invisivent® EVO HF

- delivers 30% more airflow than Invisivent® EVO:
 - Q at 1 Pa: 14,1 l/s/m
 - Q at 2 Pa: 18,5 l/s/m
- Ideal solution for spaces with small windows where sufficient airflow must be achieved
- No visual difference between the Invisivent® EVO HF and Invisivent® EVO in closed position



Invisivent® EVO AK

- Integrated acoustic foam: same design as Invisivent® EVO
- 4 levels of sound absorption in open position:
 - Invisivent® EVO AK Basic: 34 (0;-1) dB
 - Invisivent® EVO AK High: 39 (0;-1) dB
 - Invisivent® EVO AK Ultra: 42 (0;-2) dB
 - Invisivent® EVO AK Extreme: 48 (0;-2) dB
- Removable acoustic foam



Invisivent® EVO HR

- Ideal solution for wind-impacted applications (such as high-rise building up to 45 m and apartment buildings on the coast)
 - perfect water-resistance: raincap
 - good stability: extra screws through Invisivent® EVO HR
 - perfect closure of interior flap: split-up interior flap + extra clips
- Integrated, removable acoustic foam
- 3 levels of sound absorption in open position:
 - Invisivent® EVO HR Basic: 34 (0;-1) dB
 - Invisivent® EVO HR High: 39 (0;-1) dB
 - Invisivent® EVO HR Ultra: 42 (0;-2) dB



Invisivent® EVO UT

- Especially developed for utility buildings in which both the natural supply and mechanical extraction are located in the same room
- Ideal solution for rooms with a high occupancy (as class rooms, offices, ...)
- Constant higher level of basic ventilation: self-regulation as from 10 Pa
- Integrated acoustic foam: no visual difference with the Invisivent® EVO AK High or Extreme
- Removable acoustic foam



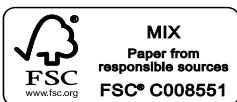
Invisivent® EVO AKR33 - module

- Acoustic retrofit module
- Simple installation: click the AKR33-module onto the Invisivent® EVO
- Upgrades the Invisivent® EVO with extra acoustic damping: 33 (-1;-2) dB in open position
- Integrated acoustic foam: same design as Invisivent® EVO
- Available in the same colour as the Invisivent® EVO



Technical specifications

	Invisivent® EVO		AKR33 - module	Invisivent® EVO HF			Invisivent® EVO AK				Invisivent® EVO HR			Invisivent® EVO UT
				Basic	High	Ultra	Extreme	Basic	High	Ultra				
TECHNICAL SPECIFICATIONS													Debiet bij 10 Pa	
Equivalent Area	13728 mm ² /m	11818 mm ² /m	17942 mm ² /m	13489 mm ² /m	9349 mm ² /m	7016 mm ² /m	2404 mm ² /m	13489 mm ² /m	9349 mm ² /m	7016 mm ² /m				10092 mm ² /m
Q at 1 Pa	10,8 l/s/m	9,3 l/s/m	14,1 l/s/m	10,6 l/s/m	7,3 l/s/m	5,5 l/s/m	1,9 l/s/m	10,6 l/s/m	7,3 l/s/m	5,5 l/s/m				7,9 l/s/m
Q at 1 Pa	38,8 m ³ /h/m	33,4 m ³ /h/m	50,8 m ³ /h/m	38,2 m ³ /h/m	26,5 m ³ /h/m	19,9 m ³ /h/m	6,8 m ³ /h/m	38,2 m ³ /h/m	26,5 m ³ /h/m	19,9 m ³ /h/m				28,6 m ³ /h/m
Q at 2 Pa	14,3 l/s/m	12,9 l/s/m	18,5 l/s/m	15,9 l/s/m	11,6 l/s/m	9,1 l/s/m	2,8 l/s/m	15,9 l/s/m	11,6 l/s/m	9,1 l/s/m				12,3 l/s/m
Q at 10 Pa	13,1 l/s/m	11,6 l/s/m	16,5 l/s/m	17,9 l/s/m	14,0 l/s/m	8,0 l/s/m	6,4 l/s/m	17,9 l/s/m	14,0 l/s/m	8,0 l/s/m				30,7 l/s/m
Q at 20 Pa	14,4 l/s/m	12,9 l/s/m	18,0 l/s/m	16,0 l/s/m	11,8 l/s/m	9,8 l/s/m	9,3 l/s/m	16,0 l/s/m	11,8 l/s/m	9,8 l/s/m				33,6 l/s/m
Surface area	0,062 m ² /m													
Controllable	6 positions	6 positions	5 positions	5 positions	5 positions	5 positions	5 positions	16 positions	16 positions	16 positions				5 positions
U-value	2,8 W/(m ² K)	3,6 W/(m ² K)	2,8 W/(m ² K)	2,0 W/(m ² K)	2,2 W/(m ² K)	2,2 W/(m ² K)	1,7 W/(m ² K)	2,0 W/(m ² K)	2,2 W/(m ² K)	2,2 W/(m ² K)				2,2 W/(m ² K)
Self-regulating	yes						no		yes					as from 10 Pa
Airflow leakage in closed positions at 50 Pa < 15%							yes							
Insect mesh							yes							
Watertightness in closed position	650 Pa	650 Pa	900 Pa	900 Pa	900 Pa	900 Pa	900 Pa	1200 Pa	1200 Pa	1200 Pa				900 Pa
Watertightness in open position	50 Pa	50 Pa	150 Pa	150 Pa	150 Pa	150 Pa	150 Pa	250 Pa	250 Pa	250 Pa				150 Pa
Burglar resistance							yes							
Thermally broken							yes							
COMFORT														
Sound reduction D _{RAW} (C _C) in open position	27 (-1;-1) dB	33 (-1;-2) dB	28 (-1;-2) dB	34 (0;-1) dB	39 (0;-1) dB	42 (0;-2) dB	48 (0;-2) dB	34 (0;-1) dB	39 (0;-1) dB	42 (0;-2) dB				39 (0;-1) dB
Sound reduction D _{RAW} (C _C) in closed position	40 (-1;-2) dB	46 (0;-2) dB	49 (-2;-4) dB	57 (-1;-4) dB	62 (-2;-6) dB	64 (-1;-4) dB	64 (-4;-11) dB	57 (-1;-4) dB	62 (-2;-6) dB	64 (-1;-4) dB				62 (-2;-6) dB
DIMENSIONS														
Glass reduction	0 mm													
Height	62 mm	62 mm	62 mm	62 mm	62 mm	62 mm	62 mm	65 mm	65 mm	65 mm				62 mm
Depths window frame	from 50 to 184 mm													
FINISHING														
Aluminium profile	E6/EV1, RAL, dual color													
Endcaps	Same colour as the aluminium profile													



RENSON® reserves the right to make technical changes to the products shown. The most recent versions of our brochures can be downloaded from www.renson.eu



RENSON® Fabrications LTD • Fairfax Unit 1-5 • Bircholt Road
Parkwood Industrial Estate • Maidstone • Kent ME15 9SF • Tel. 01622 754123 • Fax 01622 689478 •
info@rensonuk.net • www.renson.eu

RENSON® Contact - Export Dept.: Tel. 0032 56 62 71 04 • export@renson.net

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 • www.renson.eu

