

# INVISIVENT® EVO

The most discrete, self-regulating overframe flap ventilator

OVERFRAME

SELF-  
REGULATING  
I-FLUX

THERMALLY  
BROKEN

FULLY INVISIBLE  
INSTALLATION  
POSSIBLE



## INTRODUCTION

With the Invisivent<sup>EVO</sup>, 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<sup>EVO</sup> 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.

## I-FLUX®

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> 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.

## INSECT MESH

The perforated inside profile acts as an insect mesh.

## BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

## INTEGRATION IN SYSTEM C+®

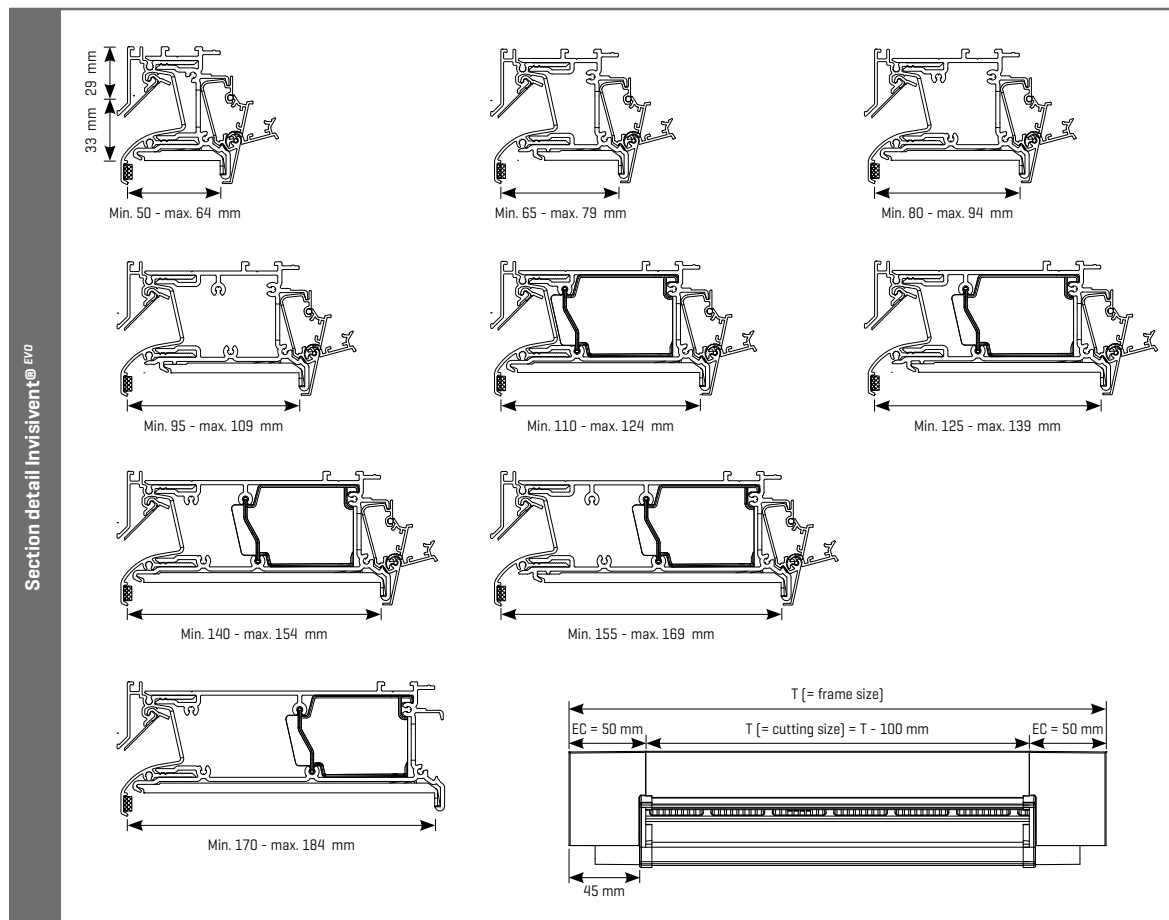
This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area                                | 13728 mm <sup>2</sup> /m               |
| Q at 1 Pa                                      | 10,8 l/s/m                             |
| Q at 1 Pa                                      | 38,8 m <sup>3</sup> /h/m               |
| Q at 2 Pa                                      | 14,3 l/s/m                             |
| Q at 10 Pa                                     | 13,1 l/s/m                             |
| Q at 20 Pa                                     | 14,4 l/s/m                             |
| Comfort  |  |
| Sound reduction $D_{n,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                               | 27 [-1;-1] dB                          |
| In closed position                             | 49 [-2;-4] dB                          |
| Technical characteristics                      |  |
| Controllable internal flap                     | 6 stepped positions                    |
| Control options internal flap                  | Manual, cord, rod, motor               |
| U value  | 2,8 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                           | <15% [in closed position]              |
| Watertightness in closed position, up to       | 650 Pa                                 |
| Watertightness in open position, up to         | 50 Pa                                  |
| Dimensions                                     |  |
| Glass reduction                                | 0 mm                                   |
| Height   | 62 mm                                  |
| Depths window frame                            | 50 up to 184 mm [or more upon request] |
| Max. length                                    | 6000 mm                                |



## TECHNICAL DRAWINGS



# INVISIVENT<sup>®</sup> EVO HF

The most discrete, self-regulating overframe flap ventilator with higher airflow

OVERFRAME

SELF-REGULATING I-FLUX

THERMALLY BROKEN

30% MORE AIRFLOW



## INTRODUCTION

The Invisivent<sup>EVO</sup> HF delivers 30% more airflow than the regular Invisivent<sup>EVO</sup>. This version of the Invisivent<sup>EVO</sup> has been specifically developed for use in spaces with small windows where sufficient airflow must be achieved, and is ideal for ensuring sufficient fresh air in rooms with high occupancy such as classrooms. In closed position there is no visual difference between the Invisivent<sup>EVO</sup> HF and Invisivent<sup>EVO</sup>, so both models can be used in the same building.

## INSTALLATION ON TOP OF THE WINDOW FRAME

The Invisivent<sup>EVO</sup> HF 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.

## 30% MORE AIRFLOW THAN THE REGULAR INVISIVENT<sup>®</sup> EVO

Invisivent<sup>EVO</sup> HF delivers 30% more airflow than the regular Invisivent<sup>EVO</sup>, which makes this the ideal solution for spaces with small windows where sufficient airflow must be achieved.

## THERMALLY BROKEN

No cold air transfer from outside to inside.

## I-FLUX<sup>®</sup>

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> HF 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.

## INSECT MESH

The perforated inside profile acts as an insect mesh.

## BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

## INTEGRATION IN SYSTEM C<sup>+</sup><sup>®</sup>

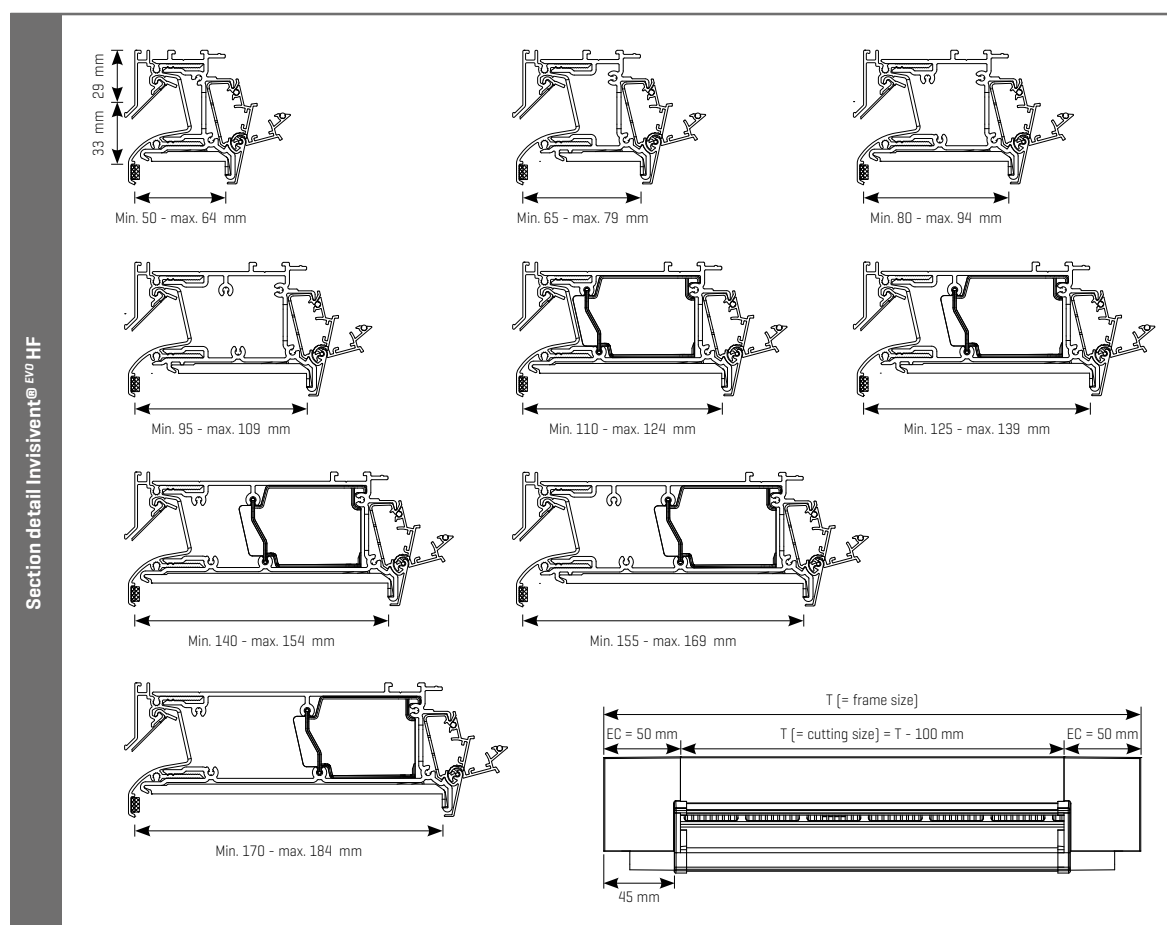
This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

## TECHNICAL CHARACTERISTICS

| Airflow                                       |  |
|---|--|
| Equivalent area                               | 17942 mm <sup>2</sup> /m               |
| Q at 1 Pa                                     | 14,1 l/s/m                             |
| Q at 1 Pa                                     | 50,8 m <sup>3</sup> /h/m               |
| Q at 2 Pa                                     | 18,5 l/s/m                             |
| Q at 10 Pa                                    | 16,5 l/s/m                             |
| Q at 20 Pa                                    | 18,0 l/s/m                             |
| Comfort                                       |  |
| Sound reduction $D_{n,w}$ [C;C <sub>v</sub> ] |  |
| In open position                              | 28 [-1;-2] dB                          |
| In closed position                            | 49 [-2;-4] dB                          |
| Technical characteristics                     |  |
| Controllable internal flap                    | 5 stepped positions                    |
| Control options internal flap                 | Manual, cord, rod, motor               |
| U value                                       | 2,8 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                          | <15% [in closed position]              |
| Watertightness in closed position, up to      | 900 Pa                                 |
| Watertightness in open position, up to        | 150 Pa                                 |
| Dimensions                                    |  |
| Glass reduction                               | 0 mm                                   |
| Height  | 62 mm                                  |
| Depths window frame                           | 50 up to 184 mm [or more upon request] |
| Max. length                                   | 6000 mm                                |



## TECHNICAL DRAWINGS



# INVISIVENT<sup>®</sup> EVO AK

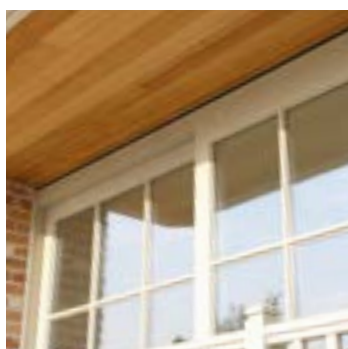
The most discrete, self-regulating and sound-absorbing overframe flap ventilator

OVERFRAME

SELF-REGULATING I-FLUX

SOUND ABSORBING

REMOVABLE ACOUSTIC FOAM



## INTRODUCTION

The Invisivent<sup>EVO</sup> AK is the acoustic version of the Invisivent<sup>EVO</sup>.

Four different Invisivent<sup>EVO</sup> AK versions are available (Basic, High, Ultra or Extreme), each representing a different level of sound reduction. For each specific window frame depth, a different PVC profile is used (and special extension profiles are used for some window frame depths) in order to make the Invisivent<sup>EVO</sup> AK fit perfectly to the window profile.

Window depth <110 mm: Invisivent<sup>EVO</sup> AK Basic + special extension profile  
>110 mm, an adapted PVC interior profile is used]

Window depth < 140 mm: Invisivent<sup>EVO</sup> AK High / Ultra / Extreme + special extension profile (>140 mm, an adapted PVC interior profile is used)

## INSTALLATION ON TOP OF THE WINDOW FRAME

The Invisivent<sup>EVO</sup> AK 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.

## I-FLUX<sup>®</sup>

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> AK ensures the supply of fresh and healthy air without draughts (Invisivent<sup>EVO</sup> AK Extreme is not self-regulating). Moreover, the interior profile deflects the incoming air upwards, causing an optimal spread of fresh air in the room.

## SOUND ABSORBING

In open position: Invisivent<sup>EVO</sup> AK Basic: 34 [0;-1] dB

Invisivent<sup>EVO</sup> AK High: 39 [0;-1] dB

Invisivent<sup>EVO</sup> AK Ultra: 42 [0;-2] dB

Invisivent<sup>EVO</sup> AK Extreme: 48 [0;-2] dB

## REMOVABLE ACOUSTIC FOAM

Thanks to its removable acoustic foam, this window vent is easy to clean and maintain.

## INSECT MESH

The perforated inside profile acts as an insect mesh.

## BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

## INTEGRATION IN SYSTEM C<sup>+</sup><sup>®</sup>

This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

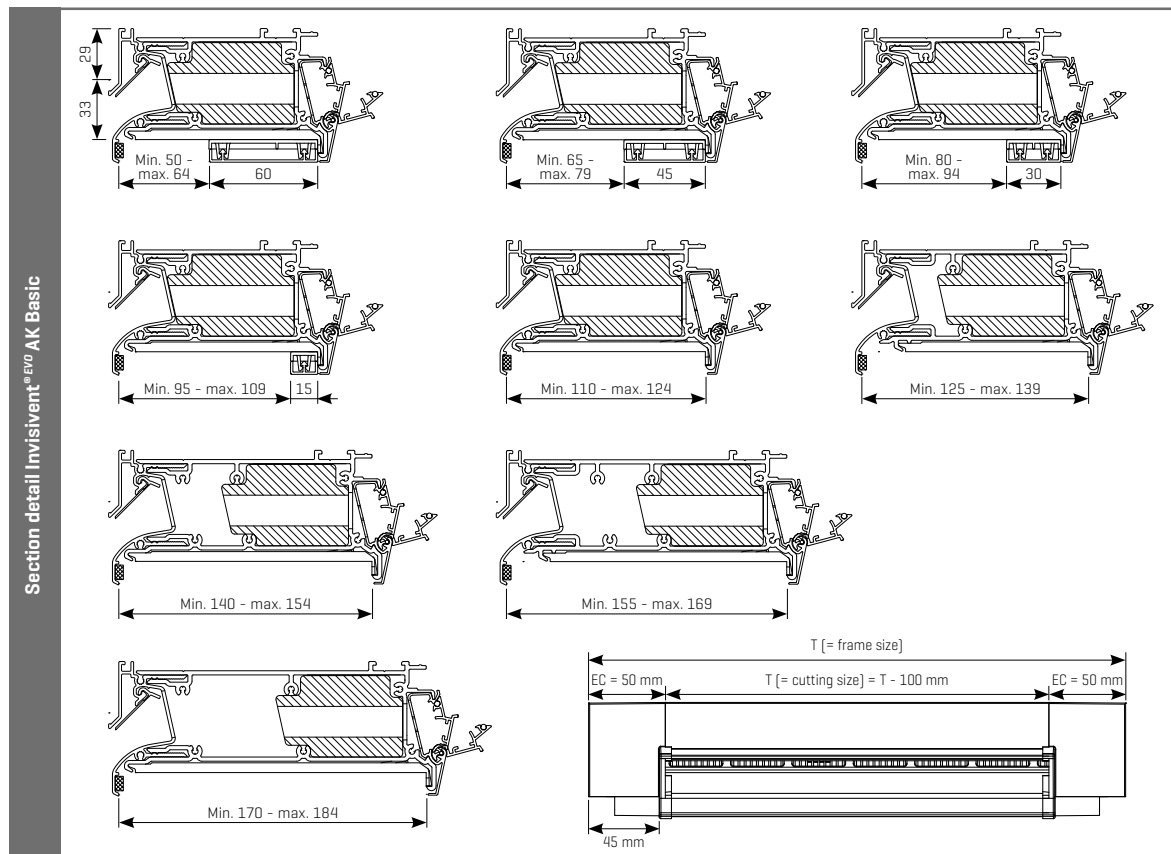
# INVISIVENT® EVO AK BASIC

## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area                                | 13489 mm <sup>2</sup> /m               |
| Q at 1 Pa                                      | 10,6 l/s/m                             |
| Q at 1 Pa                                      | 38,2 m <sup>3</sup> /h/m               |
| Q at 2 Pa                                      | 15,9 l/s/m                             |
| Q at 10 Pa                                     | 17,9 l/s/m                             |
| Q at 20 Pa                                     | 16,0 l/s/m                             |
| Comfort  |  |
| Sound reduction $D_{n,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                               | 34 [0;-1] dB                           |
| In closed position                             | 57 [-1;-4] dB                          |
| Technical characteristics                      |  |
| Controllable internal flap                     | 5 stepped positions                    |
| Control options internal flap                  | Manual, cord, rod, motor               |
| U value  | 2,0 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                           | <15% [in closed position]              |
| Watertightness in closed position, up to       | 900 Pa                                 |
| Watertightness in open position, up to         | 150 Pa                                 |
| Dimensions                                     |  |
| Glass reduction                                | 0 mm                                   |
| Height   | 62 mm                                  |
| Depths window frame                            | 50 up to 184 mm [or more upon request] |
| Max. length                                    | 6000 mm                                |



## TECHNICAL DRAWINGS



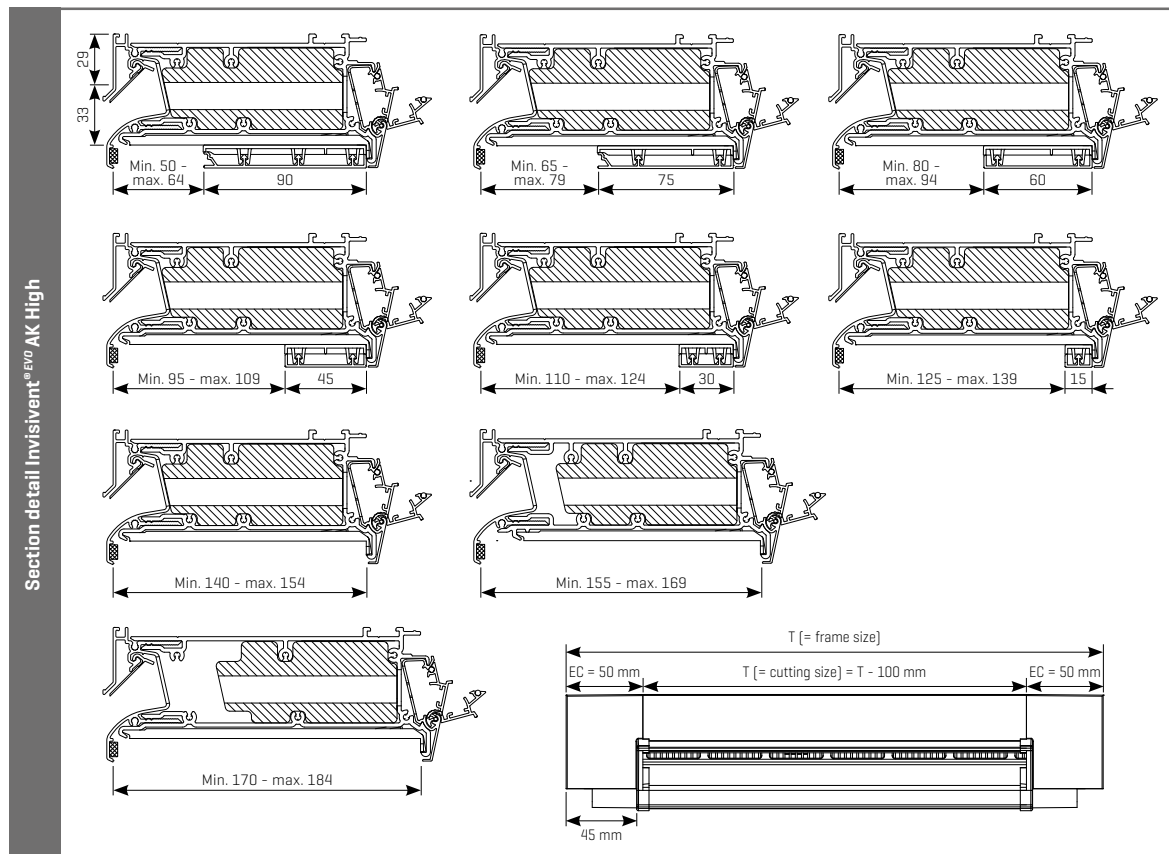
# INVISIVENT® EVO AK HIGH



## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area                                  | 9349 mm <sup>2</sup> /m                |
| Q at 1 Pa  | 7,3 l/s/m                              |
| Q at 1 Pa  | 26,5 m <sup>3</sup> /h/m               |
| Q at 2 Pa  | 11,6 l/s/m                             |
| Q at 10 Pa                                       | 14,0 l/s/m                             |
| Q at 20 Pa                                       | 11,8 l/s/m                             |
| Comfort  |  |
| Sound reduction $D_{n,e,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                                 | 39 [0;-1] dB                           |
| In closed position                               | 62 [-2;-6] dB                          |
| Technical characteristics                        |  |
| Controllable internal flap                       | 5 stepped positions                    |
| Control options internal flap                    | Manual, cord, rod, motor               |
| U value  | 2,2 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                             | <15% [in closed position]              |
| Watertightness in closed position, up to         | 900 Pa                                 |
| Watertightness in open position, up to           | 150 Pa                                 |
| Dimensions                                       |  |
| Glass reduction                                  | 0 mm                                   |
| Height   | 62 mm                                  |
| Depths window frame                              | 50 up to 184 mm [or more upon request] |
| Max. length                                      | 6000 mm                                |

## TECHNICAL DRAWINGS



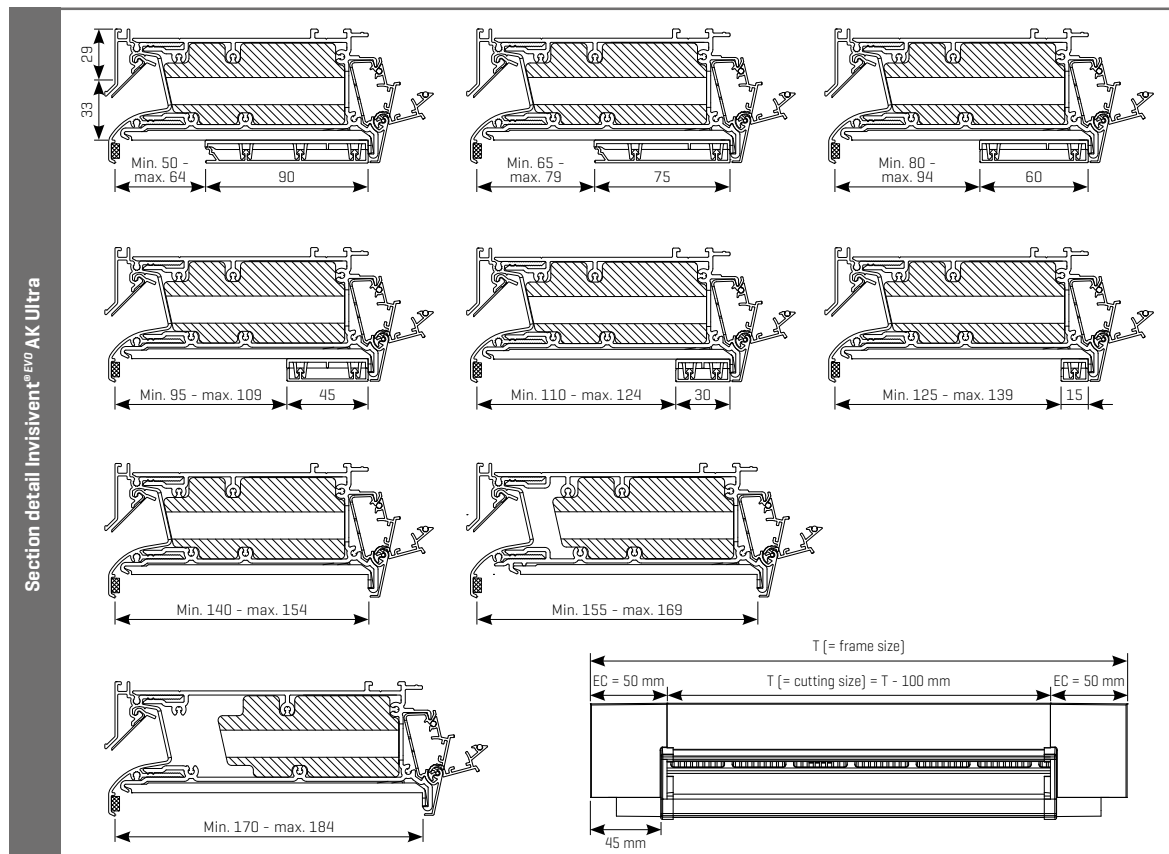
# INVISIVENT® EVO AK ULTRA

## TECHNICAL CHARACTERISTICS

| Airflow   |  |
|---|--|
| Equivalent area                                 | 7016 mm <sup>2</sup> /m                |
| Q at 1 Pa                                       | 5,5 l/s/m                              |
| Q at 1 Pa                                       | 19,9 m <sup>3</sup> /h/m               |
| Q at 2 Pa                                       | 9,1 l/s/m                              |
| Q at 10 Pa                                      | 8,0 l/s/m                              |
| Q at 20 Pa                                      | 9,8 l/s/m                              |
| Comfort   |  |
| Sound reduction $D_{n,r,w}$ [C;C <sub>v</sub> ] |  |
| In open position                                | 42 [0;-2] dB                           |
| In closed position                              | 64 [-1;-4] dB                          |
| Technical characteristics                       |  |
| Controllable internal flap                      | 5 stepped positions                    |
| Control options internal flap                   | Manual, cord, rod, motor               |
| U value   | 2,2 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                            | <15% (in closed position)              |
| Watertightness in closed position, up to        | 900 Pa                                 |
| Watertightness in open position, up to          | 150 Pa                                 |
| Dimensions                                      |  |
| Glass reduction                                 | 0 mm                                   |
| Height  | 62 mm                                  |
| Depths window frame                             | 50 up to 184 mm (or more upon request) |
| Max. length                                     | 6000 mm                                |



## TECHNICAL DRAWINGS







Invisivent<sup>®</sup> EVO AK Basic, High and Extreme

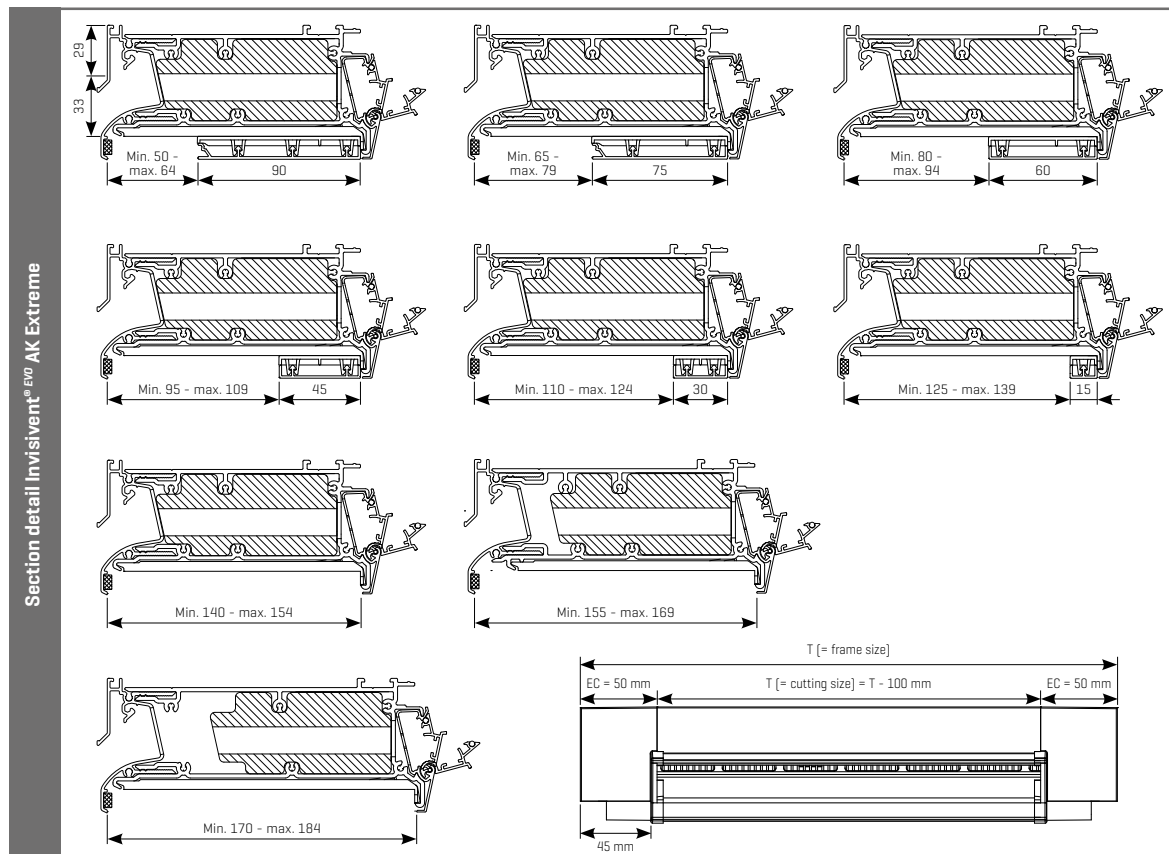
# INVISIVENT® EVO AK EXTREME



## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area                                | 2404 mm <sup>2</sup> /m                |
| Q at 1 Pa                                      | 1,9 l/s/m                              |
| Q at 1 Pa                                      | 6,8 m <sup>3</sup> /h/m                |
| Q at 2 Pa                                      | 2,8 l/s/m                              |
| Q at 10 Pa                                     | 6,4 l/s/m                              |
| Q at 20 Pa                                     | 9,3 l/s/m                              |
| Comfort  |  |
| Sound reduction $D_{n,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                               | 48 [0;-2] dB                           |
| In closed position                             | 64 [-4;-11] dB                         |
| Technical characteristics                      |  |
| Controllable internal flap                     | 5 stepped positions                    |
| Control options internal flap                  | Manual, cord, rod, motor               |
| U value  | 1,7 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                           | <15% [in closed position]              |
| Watertightness in closed position, up to       | 900 Pa                                 |
| Watertightness in open position, up to         | 150 Pa                                 |
| Dimensions                                     |  |
| Glass reduction                                | 0 mm                                   |
| Height   | 62 mm                                  |
| Depths window frame                            | 50 up to 184 mm [or more upon request] |
| Max. length                                    | 6000 mm                                |

## TECHNICAL DRAWINGS



Attention: Invisivent® EVO AK Extreme is visually identical to the Invisivent® EVO AK High and Invisivent® EVO UT, but is not self-regulating!

# INVISIVENT<sup>®</sup> EVO AKD/AKD Max

The most discrete, self-regulating and superior sound absorbing overframe ventilator

OVERFRAME

SELF-REGULATING I-FLUX

SOUND ABSORBING

REMOVABLE ACOUSTIC FOAM



## INTRODUCTION

The Invisivent<sup>EVO</sup> AKD [Max] is a sound absorbing, self-regulating and thermally broken window ventilator that is installed on top of the window frame. This acoustic version of the Invisivent<sup>EVO</sup> combines a healthy living comfort with a maximum visual comfort, without losing any acoustic comfort.

Compared to the Invisivent<sup>EVO</sup> AK-series, this Invisivent<sup>EVO</sup> AKD [Max] has a much better acoustic performance thanks to the extra outer profile. Two different types are available: the Invisivent<sup>EVO</sup> AKD and the Invisivent<sup>EVO</sup> AKD Max – the latter with an even better acoustic performance than the first.

For each specific window frame depth, a different PVC profile is used (and special extension profiles are used for some window frame depths) in order to make the Invisivent<sup>EVO</sup> AKD [Max] fit perfectly to the window profile.

## INSTALLATION ON TOP OF THE WINDOW FRAME

The Invisivent<sup>EVO</sup> AKD [Max] 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.

## I-FLUX<sup>®</sup>

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> AKD [Max] 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.

## SOUND ABSORBING

Invisivent<sup>EVO</sup> AKD: 39 [0;-2] dB in open position

Invisivent<sup>EVO</sup> AKD Max: 47 [-1;-4] dB in open position

## REMOVABLE ACOUSTIC FOAM

Thanks to its removable acoustic foam, this window vent is easy to clean and maintain.

## INSECT MESH

The perforated inside profile acts as an insect mesh.

## BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

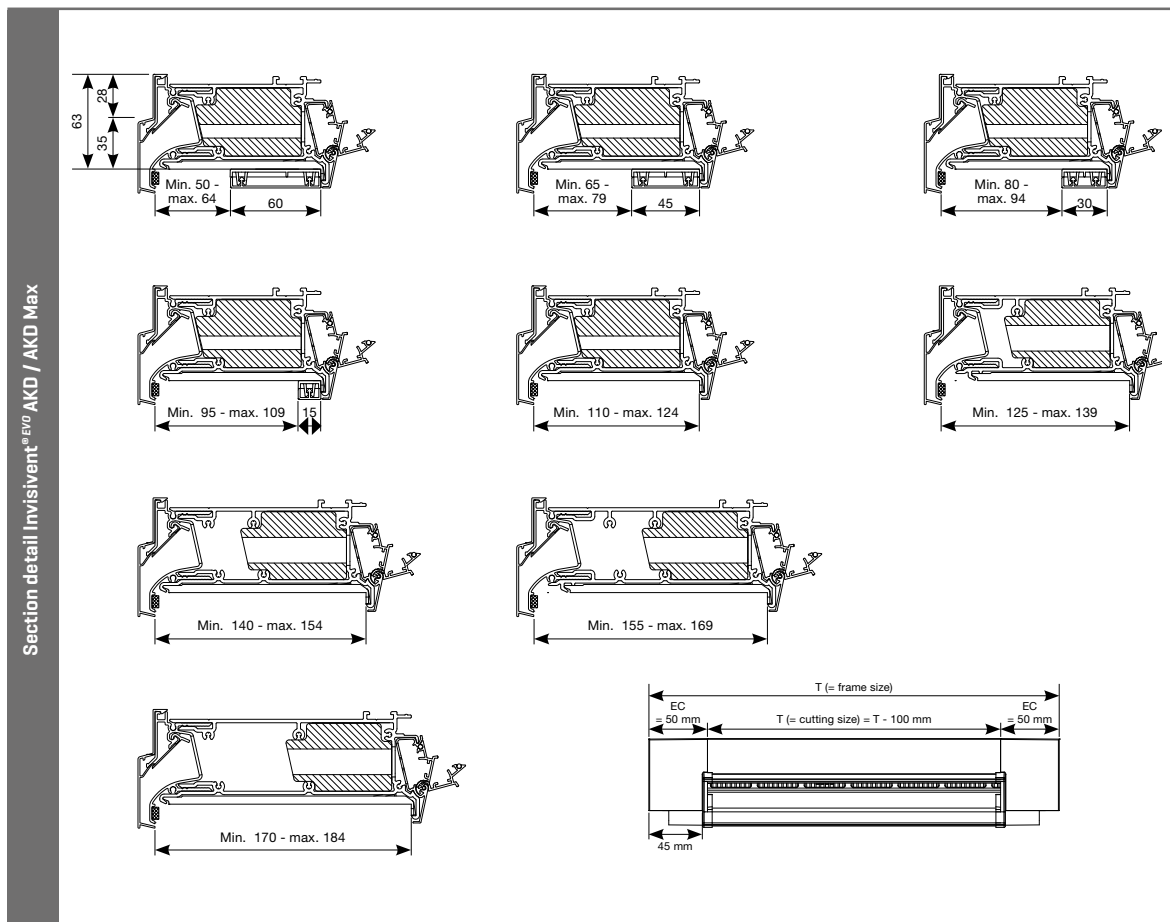
## INTEGRATION IN SYSTEM C<sup>+</sup>

This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

## TECHNICAL CHARACTERISTICS

| Airflow                                       | Invisivent® EVO AKD  | Invisivent® EVO AKD Max |
|---|--|-------------------------|
| Equivalent area                               | 4961 mm <sup>2</sup> /m  | 1400 mm <sup>2</sup> /m |
| Q at 1 Pa                                     | 3,9 l/s/m  | 1,1 l/s/m               |
| Q at 1 Pa                                     | 14,0 m <sup>3</sup> /h/m   | 4,0 m <sup>3</sup> /h/m |
| Q at 2 Pa                                     | 5,6 l/s/m  | 1,7 l/s/m               |
| Q at 10 Pa                                    | 13,3 l/s/m   | 4,0 l/s/m               |
| Q at 20 Pa                                    | 19,3 l/s/m   | 5,7 l/s/m               |
| Comfort                                       |  |                         |
| Sound reduction $D_{n,w}$ [C;C <sub>v</sub> ] |  |                         |
| In open position                              | 39 [0;-2] dB   | 47 [-1;-4] dB           |
| In closed position                            | 60 [-1;-4] dB  | 63 [-1;-4] dB           |
| Technical characteristics                     |  |                         |
| Controllable internal flap                    | 5 stepped positions  |                         |
| Control options internal flap                 | Manual, cord, rod, motor   |                         |
| U value                                       | 1,2 W/m <sup>2</sup> K (as from window depth 140 mm: 1,0 W/m <sup>2</sup> K) |                         |
| Air leakage at 50 Pa                          | <15% (in closed position)  |                         |
| Watertightness in closed position, up to      | 900 Pa   |                         |
| Watertightness in open position, up to        | 150 Pa   |                         |
| Dimensions                                    |  |                         |
| Glass reduction                               | 0 mm   |                         |
| Height  | 63 mm  |                         |
| Depths window frame                           | 50 up to 184 mm [or more upon request]                                       |                         |
| Max. length                                   | 6000 mm  |                         |

## TECHNICAL DRAWINGS



# INVISIVENT<sup>®</sup> EVO HR

The most discrete, self-regulating and sound-absorbing overframe flap ventilator for high rise applications

OVERFRAME

SELF-REGULATING I-FLUX

SOUND ABSORBING

FOR WINDIMPACTED APPLICATIONS



## INTRODUCTION

The new Invisivent<sup>EVO</sup> HR provides the ideal solution for wind-impacted applications such as high-rise buildings and apartment buildings on the coast.

The Invisivent<sup>EVO</sup> HR contains acoustic material, that muffles external noises as much as possible (e.g. wind, seagulls, traffic), which increases user comfort. The presence of various types of sound damping foam in the inside profile provides 3 possible levels of sound insulation (Basic, High or Ultra). In addition to that, the rain cap, which is mounted as standard, ensures perfect water-resistance in even the most extreme conditions. Extra mounting screws and clips guarantee satisfactory stability and sturdiness of the entire window.

The unique Invisivent<sup>EVO</sup> HR combines its functionality with maximum respect for the architecture since it can be positioned on the window frame, behind the wall.

## IDEAL FOR WIND IMPACTED APPLICATIONS (COAST AND HIGH RISE BUILDING SITUATIONS)

### INSTALLATION ON TOP OF THE WINDOW FRAME

The Invisivent<sup>EVO</sup> HR 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

#### I-FLUX<sup>®</sup>

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> HR 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.

### SOUND ABSORBING

In open position:

Invisivent<sup>EVO</sup> HR Basic: 34 [0;-1] dB

Invisivent<sup>EVO</sup> HR High: 39 [0;-1] dB

Invisivent<sup>EVO</sup> HR Ultra: 42 [0;-2] dB

### REMOVABLE ACOUSTIC FOAM

### INSECT MESH

The perforated inside profile acts as an insect mesh.

### BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

### INTEGRATION IN SYSTEM C<sup>+</sup>

This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

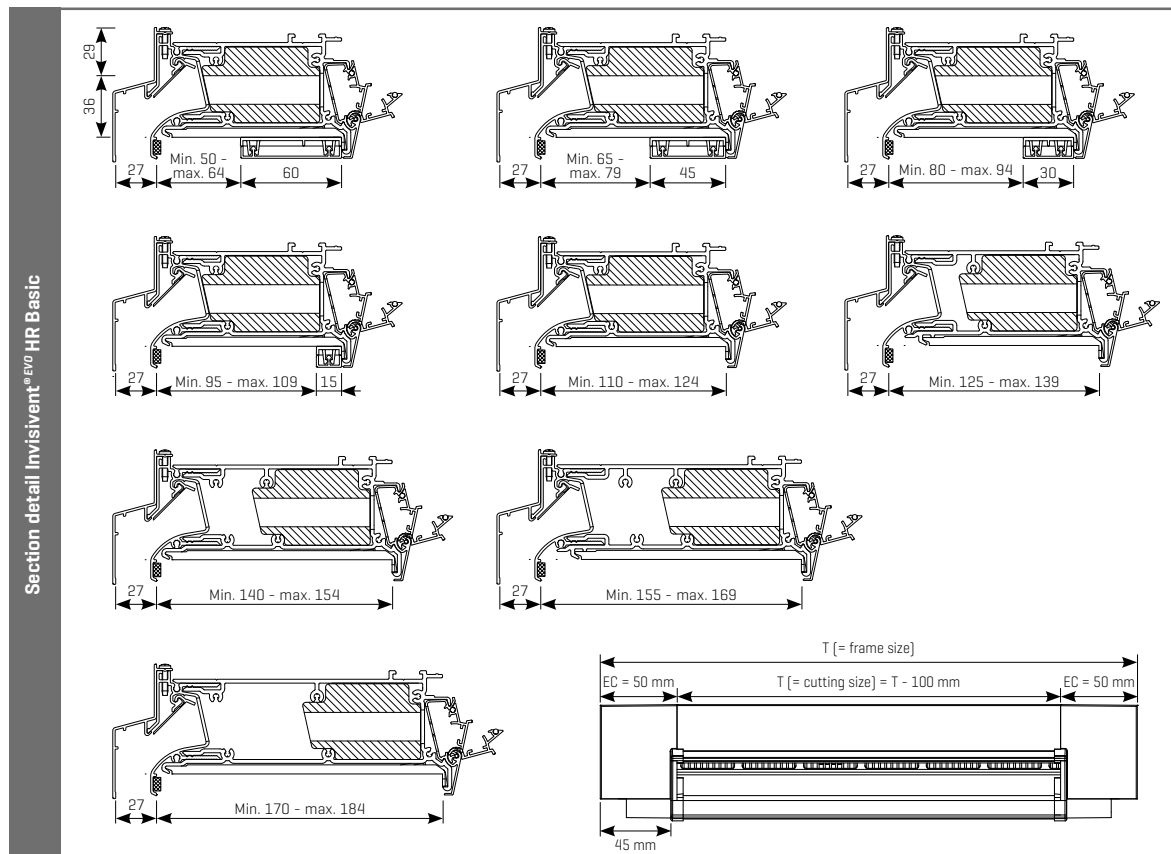
# INVISIVENT® EVO HR BASIC

## TECHNICAL CHARACTERISTICS

| Airflow   |  |
|---|--|
| Equivalent area   | 13489 mm <sup>2</sup> /m               |
| Q at 1 Pa   | 10,6 l/s/m                             |
| Q at 1 Pa   | 38,2 m <sup>3</sup> /h/m               |
| Q at 2 Pa   | 15,9 l/s/m                             |
| Q at 10 Pa  | 17,9 l/s/m                             |
| Q at 20 Pa  | 16,0 l/s/m                             |
| Comfort   |  |
| Sound reduction D <sub>n,r,w</sub> [C;C <sub>tr</sub> ] |  |
| In open position  | 34 [0;-1] dB                           |
| In closed position                                      | 57 [-1;-4] dB                          |
| Technical characteristics                               |  |
| Controllable internal flap                              | 16 stepped positions                   |
| Control options internal flap                           | Manual, cord, rod, motor               |
| U value   | 2,0 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                                    | <15% [in closed position]              |
| Watertightness in closed position, up to                | 1200 Pa                                |
| Watertightness in open position, up to                  | 250 Pa                                 |
| Dimensions  |  |
| Glass reduction   | 0 mm                                   |
| Height  | 65 mm                                  |
| Depths window frame                                     | 50 up to 184 mm [or more upon request] |
| Max. length   | 6000 mm                                |



## TECHNICAL DRAWINGS



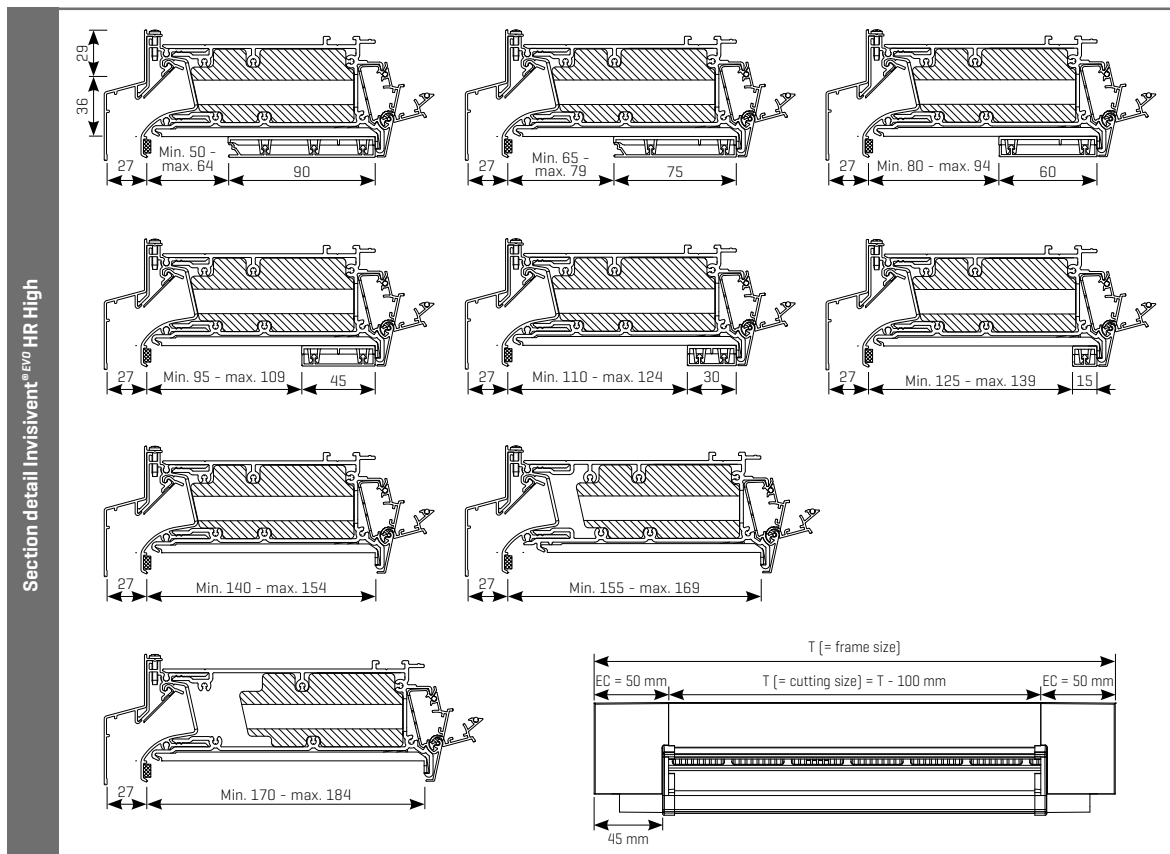
# INVISIVENT® EVO HR HIGH



## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area                                  | 9349 mm <sup>2</sup> /m                |
| Q at 1 Pa  | 7,3 l/s/m                              |
| Q at 1 Pa  | 26,5 m <sup>3</sup> /h/m               |
| Q at 2 Pa  | 11,6 l/s/m                             |
| Q at 10 Pa                                       | 14,0 l/s/m                             |
| Q at 20 Pa                                       | 11,8 l/s/m                             |
| Comfort  |  |
| Sound reduction $D_{n,e,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                                 | 39 [0;-1] dB                           |
| In closed position                               | 62 [-2;-6] dB                          |
| Technical characteristics                        |  |
| Controllable internal flap                       | 16 stepped positions                   |
| Control options internal flap                    | Manual, cord, rod, motor               |
| U value  | 2,2 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                             | <15% [in closed position]              |
| Watertightness in closed position, up to         | 1200 Pa                                |
| Watertightness in open position, up to           | 250 Pa                                 |
| Dimensions                                       |  |
| Glass reduction                                  | 0 mm                                   |
| Height   | 65 mm                                  |
| Depths window frame                              | 50 up to 184 mm [or more upon request] |
| Max. length                                      | 6000 mm                                |

## TECHNICAL DRAWINGS



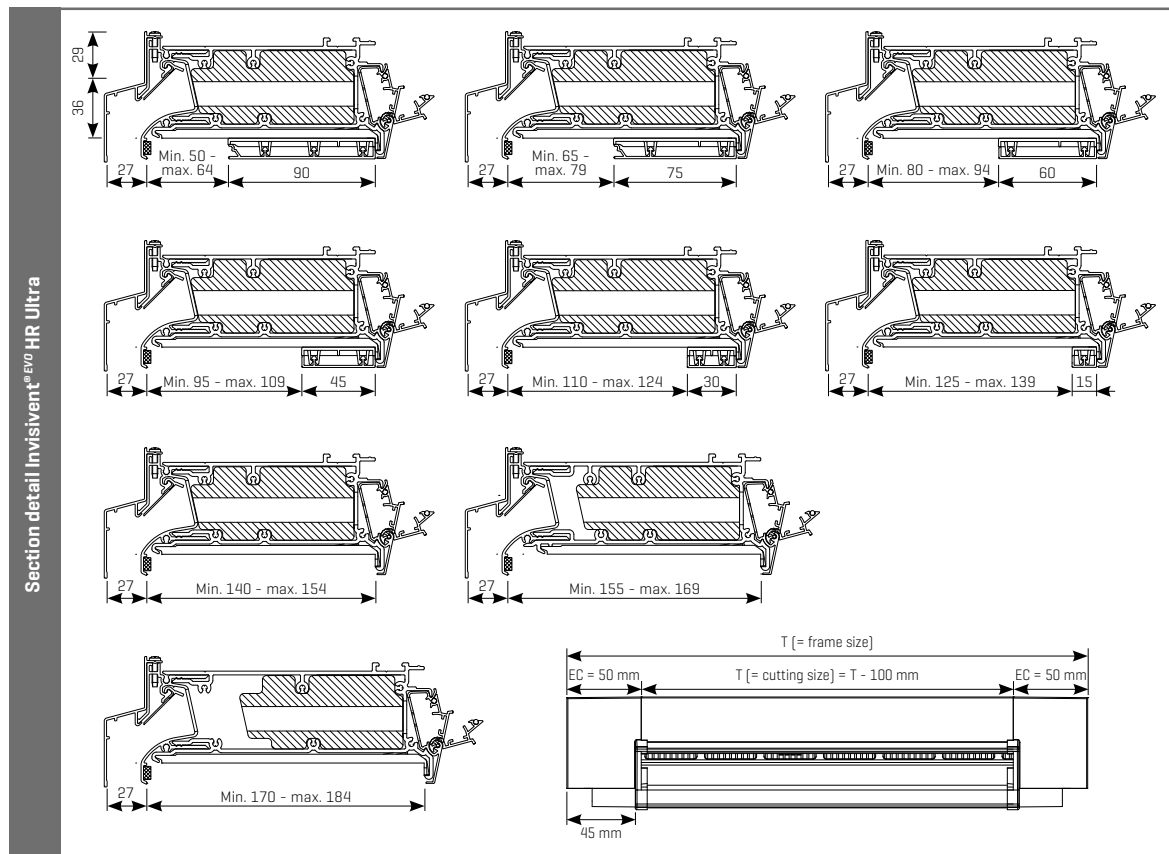
# INVISIVENT® EVO HR ULTRA

## TECHNICAL CHARACTERISTICS

| Airflow  |  |
|--|--|
| Equivalent area  | 7016 mm <sup>2</sup> /m                |
| Q at 1 Pa  | 5,5 l/s/m                              |
| Q at 1 Pa  | 19,9 m <sup>3</sup> /h/m               |
| Q at 2 Pa  | 9,1 l/s/m                              |
| Q at 10 Pa   | 8,0 l/s/m                              |
| Q at 20 Pa   | 9,8 l/s/m                              |
| Comfort  |  |
| Sound reduction D <sub>n,r,w</sub> [C;C <sub>v</sub> ] |  |
| In open position                                       | 42 [0;-2] dB                           |
| In closed position                                     | 64 [-1;-4] dB                          |
| Technical characteristics                              |  |
| Controllable internal flap                             | 16 stepped positions                   |
| Control options internal flap                          | Manual, cord, rod, motor               |
| U value  | 2,2 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                                   | <15% [in closed position]              |
| Watertightness in closed position, up to               | 1200 Pa                                |
| Watertightness in open position, up to                 | 250 Pa                                 |
| Dimensions   |  |
| Glass reduction  | 0 mm                                   |
| Height   | 65 mm                                  |
| Depths window frame                                    | 50 up to 184 mm [or more upon request] |
| Max. length  | 6000 mm                                |



## TECHNICAL DRAWINGS





# AKR33-MODULE

Acoustic retrofit module for the Invisivent®<sup>EVO</sup>

OVERFRAME

SELF-REGULATING I-FLUX

SOUND ABSORBING

RETROFIT MODULE



## INTRODUCTION

Over the years, one's neighbourhood can change dramatically, with for example increasing traffic leading to increasing noise pollution. With the AKR33-module it is possible to upgrade one's previously installed Invisivent<sup>EVO</sup> with a minimal sound absorbing module, so that one can enjoy his home again in all comfort.

## ACOUSTIC RETROFIT MODULE

RENSON has developed a special acoustic retrofit module that can easily be clicked on a previously installed Invisivent<sup>EVO</sup>.

## THERMALLY BROKEN

No cold air transfer from outside to inside.

## I-FLUX®

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> AKR33-module 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.

## SOUND ABSORBING

Invisivent<sup>EVO</sup> + AKR33-module: 33 [-1;-2] dB in open position

## AVAILABLE IN THE SAME COLOR AS THE INVISIVENT®<sup>EVO</sup>

This acoustic retrofit module is available in exactly the same color as the previously installed Invisivent<sup>EVO</sup>, so that its visual impact remains limited.

## INSECT MESH

The perforated inside profile acts as an insect mesh.

## BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

## INTEGRATION IN SYSTEM C<sup>+</sup>®

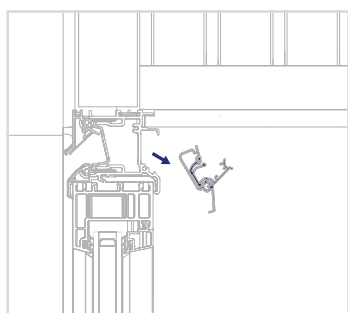
This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

## TECHNICAL CHARACTERISTICS

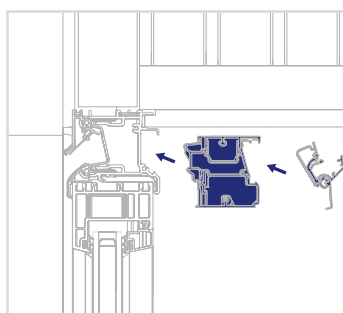
| Airflow                                       |                           |
|---|---------------------------|
| Equivalent area                               | 11818 mm <sup>2</sup> /m  |
| Q at 1 Pa                                     | 9,3 l/s/m                 |
| Q at 1 Pa                                     | 33,4 m <sup>3</sup> /h/m  |
| Q at 2 Pa                                     | 12,9 l/s/m                |
| Q at 10 Pa                                    | 11,6 l/s/m                |
| Q at 20 Pa                                    | 12,9 l/s/m                |
| Comfort                                       |                           |
| Sound reduction $D_{n,w}$ [C;C <sub>v</sub> ] |                           |
| In open position                              | 33 [-1;-2] dB             |
| In closed position                            | 49 [-2;-4] dB             |
| Technical characteristics                     |                           |
| Controllable internal flap                    | 6 stepped positions       |
| Control options internal flap                 | Manual, cord, rod, motor  |
| U value                                       | 3,6 W/m <sup>2</sup> K    |
| Air leakage at 50 Pa                          | <15% [in closed position] |
| Watertightness in closed position, up to      | 650 Pa                    |
| Watertightness in open position, up to        | 50 Pa                     |

## TECHNICAL DRAWINGS

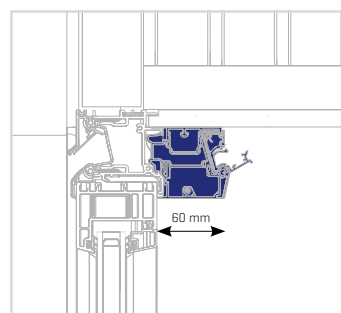
1. Remove the aluminium interior profile from the Invisivent <sup>EVO</sup>



2. Click the acoustic AKR33-module onto the PVC-profile of the Invisivent <sup>EVO</sup>



3. Insert the aluminium interior profile from the Invisivent <sup>EVO</sup> on the acoustic AKR33-module



# INVISIVENT<sup>®</sup> EVO UT

The most discrete, self-regulating and sound-absorbing overframe flap ventilator for utility buildings

OVERFRAME

SELF-REGULATING I-FLUX

SOUND ABSORBING

FOR UTILITY BUILDINGS



## INTRODUCTION

The Invisivent<sup>EVO</sup> UT is the acoustic version of the Invisivent<sup>EVO</sup> that has been especially developed for utility buildings. Its self-regulating flap only starts working at a wind pressure of 10 Pa (instead of at 2 Pa as for the other Invisivent<sup>EVO</sup> vents), ensuring a constant higher level of basic ventilation. This type of window ventilation is only suitable for utility applications in which both the natural supply and mechanical extraction are located in the same room.

Window depth < 140 mm: Invisivent<sup>EVO</sup> UT + special extension profile  
> 140 mm, an adapted PVC interior profile is used]

## UTILITY BUILDINGS

### INSTALLATION ON TOP OF THE WINDOW FRAME

The Invisivent<sup>EVO</sup> UT 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.

### I-FLUX<sup>®</sup>

Thanks to its self-regulating flap, the Invisivent<sup>EVO</sup> UT ensures the supply of fresh and healthy air without draughts. The self-regulating flap only starts working at a wind pressure of 10 Pa (instead of at 2 Pa). Moreover, the interior profile deflects the incoming air upwards, causing an optimal spread of fresh air in the room.

### SOUND ABSORBING

Invisivent<sup>EVO</sup> UT: 39 [0;-1] dB in open position

### REMOVABLE ACOUSTIC FOAM

Thanks to its removable acoustic foam, this window vent is easy to clean and maintain.

### INSECT MESH

The perforated inside profile acts as an insect mesh.

### BURGLAR PROOF

The Invisivent<sup>EVO</sup> 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.

### INTEGRATION IN SYSTEM C<sup>+</sup>

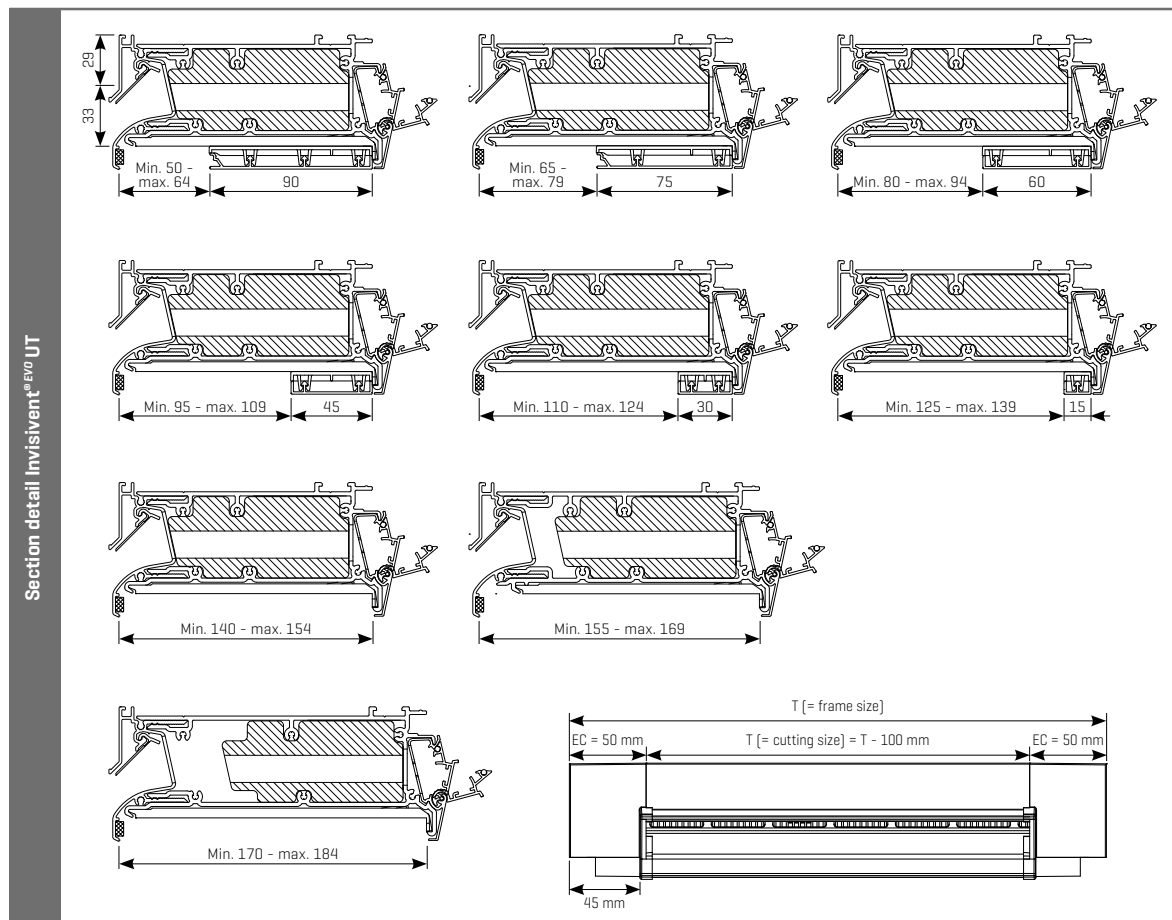
This window vent guarantees an optimal indoor air quality in combination with Healthbox 3.0.

## TECHNICAL CHARACTERISTICS

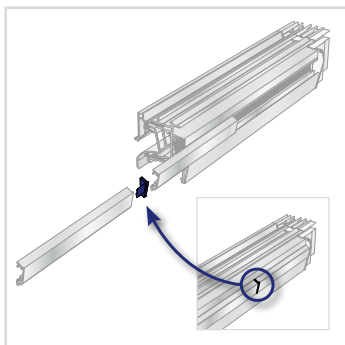
| Airflow  |  |
|--|--|
| Equivalent area                                | 10092 mm <sup>2</sup> /m               |
| Q at 1 Pa                                      | 7,9 l/s/m                              |
| Q at 1 Pa                                      | 28,6 m <sup>3</sup> /h/m               |
| Q at 2 Pa                                      | 12,3 l/s/m                             |
| Q at 10 Pa                                     | 30,7 l/s/m                             |
| Q at 20 Pa                                     | 33,6 l/s/m                             |
| Comfort  |  |
| Sound reduction $D_{n,w}$ [C;C <sub>tr</sub> ] |  |
| In open position                               | 39 [0;-1] dB                           |
| In closed position                             | 62 [-2;-6] dB                          |
| Technical characteristics                      |  |
| Controllable internal flap                     | 5 stepped position                     |
| Control options internal flap                  | Manual, cord, rod, motor               |
| U value  | 2,2 W/m <sup>2</sup> K                 |
| Air leakage at 50 Pa                           | <15% [in closed position]              |
| Watertightness in closed position, up to       | 900 Pa                                 |
| Watertightness in open position, up to         | 150 Pa                                 |
| Dimensions                                     |  |
| Glass reduction                                | 0 mm                                   |
| Height   | 62 mm                                  |
| Depths window frame                            | 50 up to 184 mm [or more upon request] |
| Max. length                                    | 6000 mm                                |



## TECHNICAL DRAWINGS

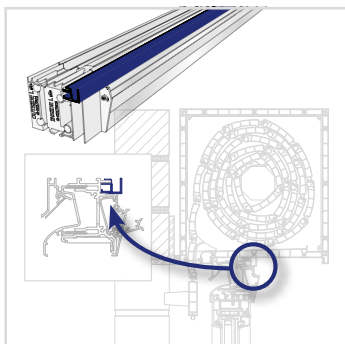


# INVISIVENT<sup>®</sup> EVO RANGE OPTIONS



## CONTROL FLAP

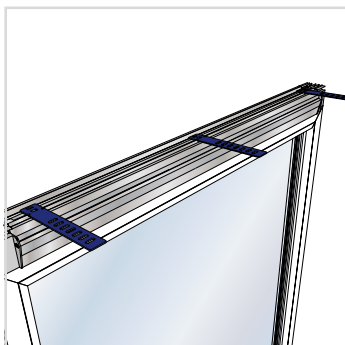
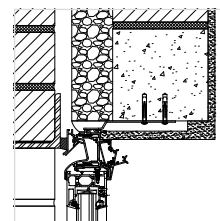
For ease of use or at the customer's request, the control flap is split up for lengths above 3000 mm. A special middle piece (3 mm thick) is inserted between the two flaps to give a neat finish.



## FINISHING PROFILE

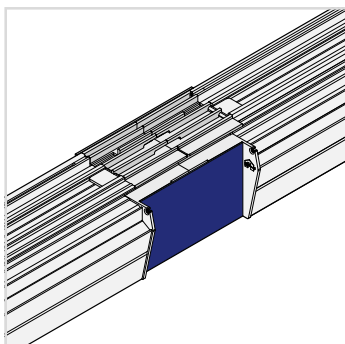
The Invisivent<sup>EVO</sup> is designed to provide a perfect finish. There is a cut-out at the top of the vent that takes plasterboard or MDF panels up to 10 mm thick, and which allows the plasterer to integrate the vent discreetly into the plastered surface.

The optional aluminium finishing profile should be used with traditional wet plastering. The profile should also be used for a perfect finish when installing a roller shutter box, for example, above the Invisivent<sup>EVO</sup>. This profile is available in the same finish as the inside of the Invisivent<sup>EVO</sup>.



## INSTALLATION USING WALL BRACKETS

The Invisivent<sup>EVO</sup> has a dowel slot so it can be attached quickly and easily to the unfinished structure by using wall brackets.



## SPLIT UP MIDDLE PIECE

An Invisivent<sup>EVO</sup> is available in lengths up to 6 meter. However, it is also possible to install several Invisivent<sup>EVO</sup> vents next to each other, joined by a split up middle piece for a perfect finish.