



## I-tec Ventilation

### AIRING OF THE FUTURE



**FRESH AIR FOR HEALTHY LIVING** | Regulated supply of fresh air is paramount for our well-being and our performance. Fresh air also plays a tremendously important role for good, refreshing sleep. However, there is not always time to air all rooms sufficiently. Automatic ventilators supply each room with sufficient fresh air through a large air volume. The ventilation process is continuous - no need to do anything. Damp and used air, unpleasant smells and pollutants are automatically exchanged for fresh air.



**FRESH AIR WITHOUT POLLEN** | If you greet the arrival of spring each year with a stuffy nose, watery eyes and unpleasant sneezing, then your motto will be: Shut the windows! Airing forbidden! Allergy sufferers cannot bear open windows for a long time. Due to an integrated pollen filter automatic ventilation keeps pollen out. Only fresh, clean air is entering the room and you can breathe through and relax again!



**FRESH AIR WITHOUT MOULD** | Mould will become a problem depending on room temperature, humidity and nutrient supply in the room. Mould really likes humid, sealed off houses. Automatic ventilation ensures continuous fresh air and airs especially in areas where high humidity occurs such as the bathroom or the kitchen. The great advantage is that everything works fully automatic. A humidity sensor activates the ventilation if the air humidity is too high and guarantees perfect room climate during all times of the day and night.



**FRESH AIR WITHOUT DUST** | Dirt and dust from outside sneaks invisibly into our flats and houses. Especially in urban areas the exposure to dust can be quite high. Open windows simply invite dust in. Not so with automatic ventilation. Integrated filters stop this unwanted guest. All impurities are stopped and only clean, fresh air reaches the inside of the house.



**FRESH AIR WITHOUT DRAUGHTS** | How to lock out draughts? If it's windy and the windows are open, it can happen that doors and windows slam shut, papers are scattered through the room and curtains flap crazily in the wind. The window remains closed with automatic ventilation. Used air is exchanged with fresh air through small slits and there is no chance of draughts.



**FRESH AIR WITHOUT BIG HEAT LOSSES** | The main demands on modern architecture are to save resources, to act sustainably and to save energy. Permanent or conventional airing leads to high energy losses, especially during the cold season. Due to the integrated heat exchanger heat recovery of up to 93 percent is possible. Energy losses are becoming a thing of the past. The heat from the exhausted room air warms up the fresh air from the outside.



**FRESH AIR WITHOUT OUTSIDE NOISE** | Good sleep and fresh air simply belong together. Often night time's peace can be quickly disturbed if the window remains open. The window remains closed even during the night with automatic ventilation. You can enjoy the peace and still enjoy continuous fresh air without being bothered by outside noise.



**FRESH AIR WITHOUT RISK OF BURGLARY** | Open windows are an invitation to any burglar. You don't need to worry about that with automatic ventilation: Your window remains closed and you are well protected against unwished guests. When you leave the house you can be sure that everything which is yours, is locked and still the air exchange is taking place.



**FRESH AIR WITHOUT RISK THAT RAIN CAN ENTER IN** | Quickly! We must get back home, the windows are open! A thunderstorm and torrential rain make us desert our picnic and race home. You could have an unpleasant wet surprise, if unexpectant showers hit the windows. But this does not have to be a problem! The windows remain closed with automatic ventilation, the rain is kept at bay by the outside wall and windows. Yet, inside you can enjoy fresh air as if your windows had been open the whole day.



**FRESH AIR INDIVIDUALLY FOR EACH ROOM** | Misted up mirrors after showering or taking a bath - does this sound familiar to you? It is caused by high humidity in small rooms. Yet in large rooms we often feel that the air is dry and we get an itchy throat. The demands on temperature levels in the various rooms are often very different. Decentral automatic ventilation can regulate the intensity of the air exchange individually. Different levels and also a short turbo mode ensure maximum performance depending on the requirements of the room.

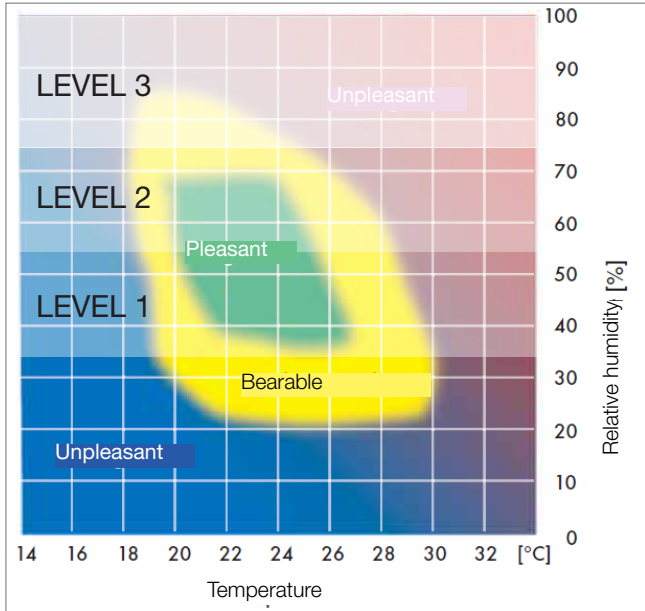


**FRESH AIR WITHOUT WORRIES – AUTOMATIC FUNCTION** | Have I aired the house enough today? This question will soon be a thing of the past. The humidity automatic in automatic ventilation systems recognises the temperature and humidity of the room air automatically. The air exchange therefore takes place completely automatically, without you even moving a single finger!



**HOW DOES THE AUTOMATIC MODE WORK?**

The automatic mode controls the ventilation levels via the room humidity. A humidity sensor in the ventilation housing measures the relative humidity. It will ensure that the relative humidity in the room will always remain in the pleasant area according to the diagram.



In automatic mode the ventilator switches automatically to the required performance level determined by the humidity in the used air. If the fresh air temperature is above the room temperature the automatic function is switched off.

**TECHNICAL DETAILS**

|                 | Air exchange | Power consumption | Efficiency | Standard sound pressure levels |
|-----------------|--------------|-------------------|------------|--------------------------------|
| Stand-by        |              | 1,5 W             |            |                                |
| Level 1         | 9 m³/h       | 6 W               | 93.2 %     | ≤ 22.1 dB                      |
| Level 2         | 15 m³/h      | 8 W               | 86.9 %     | 33.4 dB                        |
| Level 3         | 31 m³/h      | 24 W              | 77.4 %     | 49.3 dB                        |
| Level 4 (turbo) | 39 m³/h      | 36 W              | 73.9 %     |                                |

Source: Institute HKL Stuttgart

**Soundproofing**  $D_{n,e,w} (C ; C_{tr})$ :  
 Flaps open: 50 (-1; -3) dB  
 Flaps closed: 52 (-1; -3) dB

Source: Ift Rosenheim

**Energy savings** through airing with heat exchanger are greater than the energy demand of the ventilator. Average electricity costs per ventilator per year are approx. £ 7.

**Minimum height of window element:**

I-tec ventilation can be fitted into window elements from a height of 982 mm.