

## Sustainable ventilation systems

Ventilation literally means to replace used air by fresh air. Used air needs to be refreshed as a result of CO<sub>2</sub>, humidity, VOC's or other type of air pollutants (dust, microbial etc.). Ventilation is absolutely required for a healthy, comfortable and productive indoor environment.

### Air quality, comfort and protection

When refreshing air by using a ventilation system (or window), outdoor air pollution is unavoidably sucked in. Also when used air is circulated, pollutants from building materials, clothing and people are distributed throughout the building. Therefore we always equip our ventilation systems with a high efficiency filter, constantly ensuring clean and healthy air. Windows are allowed to be opened which increases the sense of comfort.



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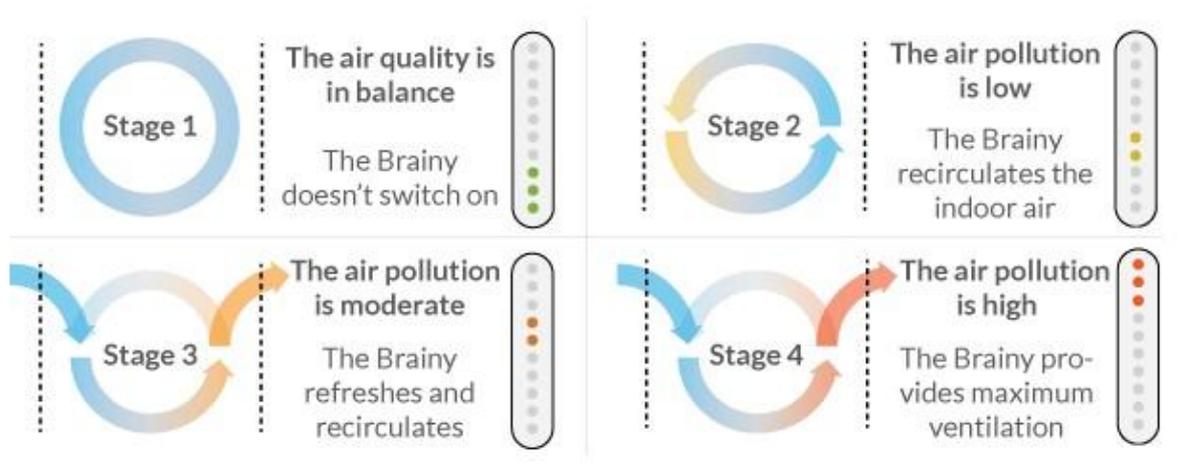
### Easy to install and maintain

As a result of decentralized installation there is less piping required which saves space for other facilities and saves installation costs. Maintenance in terms of filter replacement and cleaning is required less frequent and easier to execute as a result of better overview. Expansion to other rooms or areas is easy to achieve since the units can be calibrated or linked to another unit. Furthermore, placement and installation of the system is done very quickly and easily as it is delivered 'plug and play'. Installation is flexible and can be done on the roof or above the ceiling depending on the need and building structure.

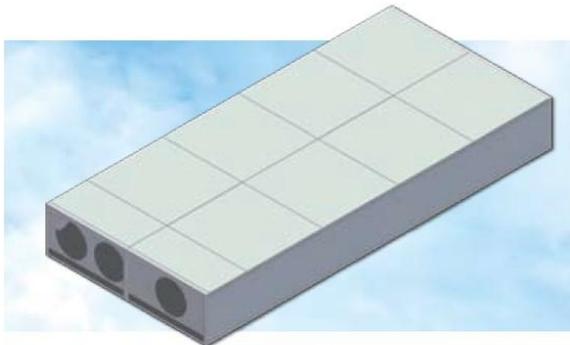
### Cost savings

Our ventilation systems always have very low pressure drop which means that substantially less energy is used. Optionally the system can be equipped with an air quality sensor, measuring all aspects of IAQ and controlling the system accordingly. This results in energy savings as the system will only ventilate when required. Maintenance is inexpensive as filter replacement is cheaper and shafts stay clean as a result of high efficiency filtration.

The Brainy functions in four stages. Depending on the measured IAQ and the degree of air pollution it determines whether ventilation, filtration, recirculation or a combination is required.



## Intelligent air handling unit EH1880/800Pa



| Name         | Dimensions           | Capacity  | Efficiency | Filters                                 | Pressure drop | Sound    | Power |
|--------------|----------------------|-----------|------------|---|---------------|----------|-------|
| EH1880/800Pa | 2780 x 1280 X 360 mm | 1880 m3/h | 75%        | 2x F6 Ecopleat<br>1x organic F7 Cityflo | 800 Pa        | 35 dB(A) | 700 W |

