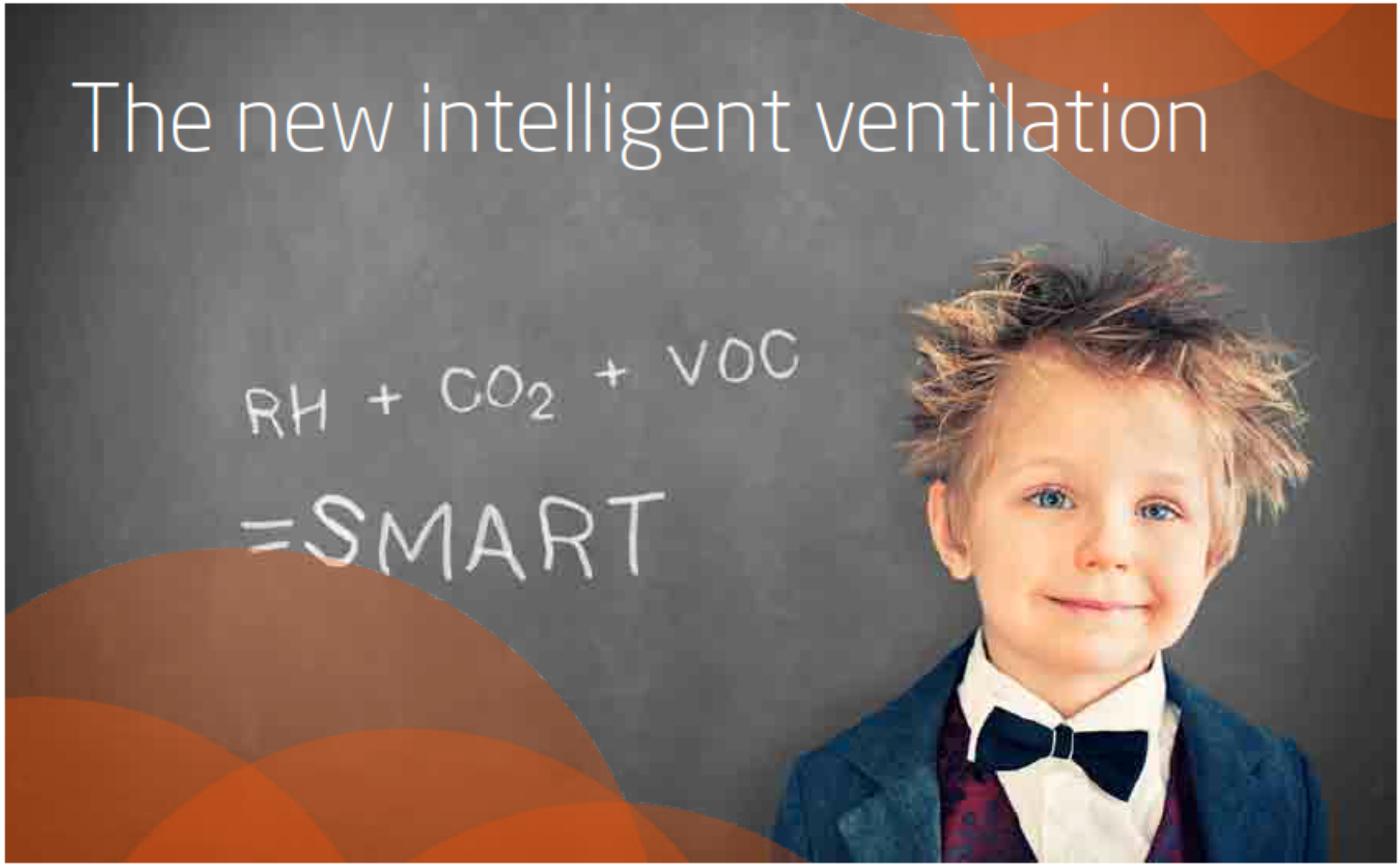

Swegon
Home Solutions

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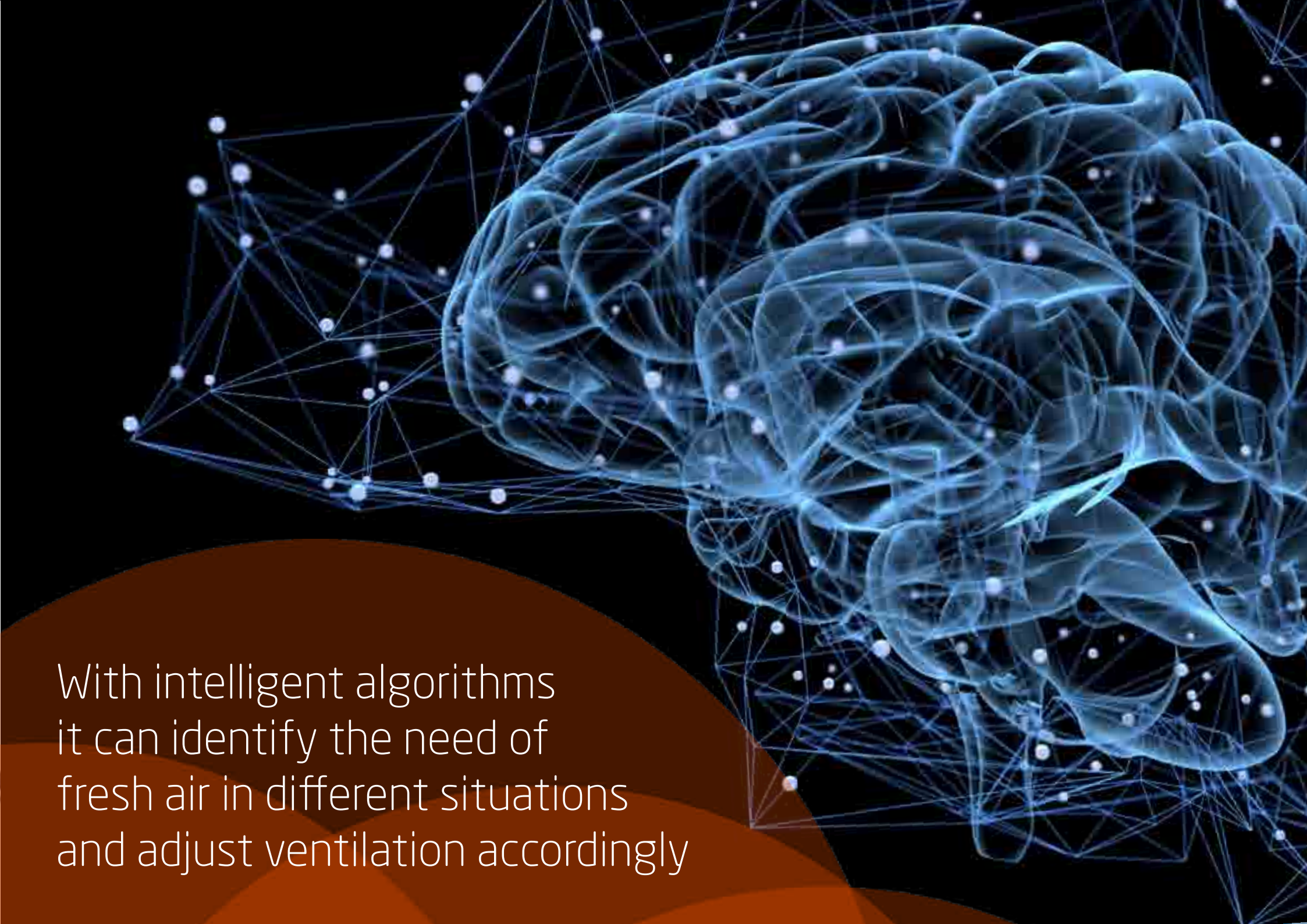
Als het om lucht gaat.

AUERHAAN
KLIMAATTECHNIEK

Smart measures indoor CO_2 and humidity with inbuilt sensors and can even sense different smells and odours!



With intelligent algorithms
it can identify the need of
fresh air in different situations
and adjust ventilation accordingly

It knows when
you leave home...

and when you
come back!

When you do
the laundry...

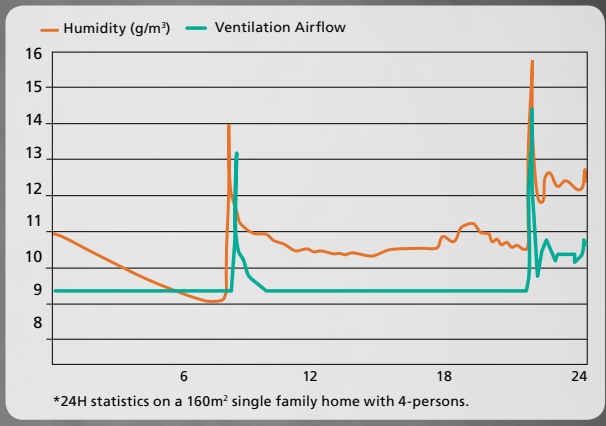

Ventilation level
Humidity
CO_2
VOC
When you
are cooking...


Ventilation level
Humidy
CO_2
VOC
Or when you
are bathing...

AVAILABLE SMART AUTO FUNCTIONS

AUTO HUMIDITY CONTROL (RH)

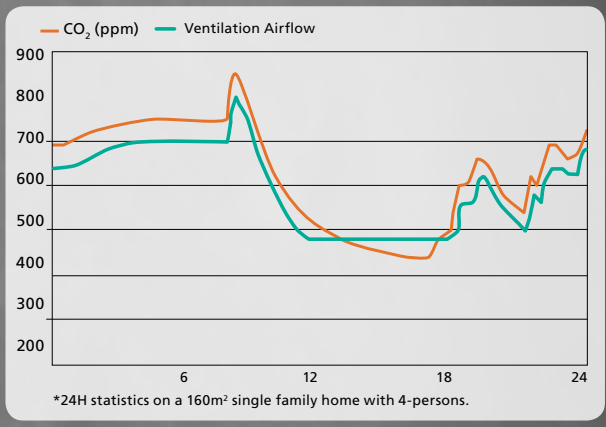
In the morning and in the evening activities such as bathing and cooking increase humidity levels in the apartment Smart measures and calculates average humidity in the apartment and sets boost limits accordingly. Smart ventilation removes humidity efficiently but also simultaneously minimizes the sound effect of the fans. Once RH levels reach boost limits ventilation sets automatically to boost mode in order to remove excess humidity. Ventilation adjusts steplessly based on demand.



*24H statistics on a 160m² single family home with 4-persons.

AUTO HUMIDITY CONTROL (RH) + AUTO HOME/AWAY/BOOST (CO_2)

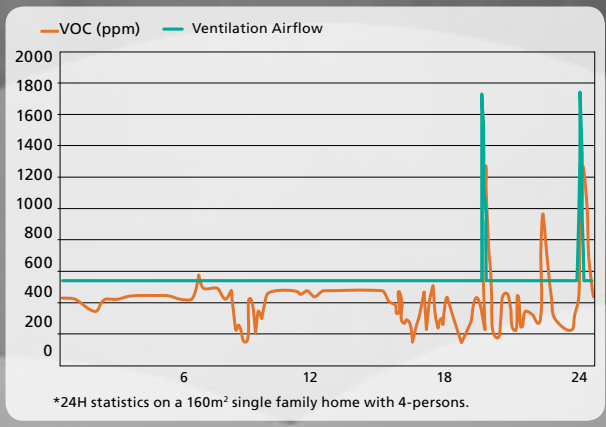
In the morning and evening CO_2 levels increase due to increased activities in the house. During daytime when nobody is in the apartment the CO_2 levels decrease. Smart measures CO_2 levels with inbuilt sensors. Home and Away limits are calibrated and set in place. Ventilation level adjusts steplesly according to CO_2 levels down up to full boost and down to away limit.



*24H statistics on a 160m² single family home with 4-persons.

AUTO HUMIDITY CONTROL (RH) + AUTO AIR QUALITY CONTROL (RH+VOC)

Inbuilt VOC sensor detects different organic compounds like smells and odours from exhaust air. Cooking and other activities create increased level of VOC and ventilation sets automatically to boost mode in order to remove excess humidity. By combining Auto Humidity Control and Auto Home Away Boost the Smart ventilation adjust ventilation level continuously based on CO_2 levels and increases ventilation to boost level when humidity increases above calculated average limits.



*24H statistics on a 160m² single family home with 4-persons.

SMART BALANCING FUNCTIONS

FIREPLACE FUNCTION

- Modern buildings are built extremely air tight to gain maximum energy efficiency
- This will however cause problems when lighting up and burning a fireplace if there is not sufficient amount of compensation air available
- The purpose of fireplace function is to create over pressure in house when fireplace is light up. And when fireplace is on it compensates air drawn by fireplace.
- Fireplace function can be started with external switch or from user panel.
- Preheater can be configured on when fireplace function is active.
- Fireplace overpressure compensation work in 3 steps:
  - Defrost step if cold outdoor temperature
  - Fireplace light up step (max overpressure)
  - Burning step (compensate air needed in burning
  - Overpressure decreases while the burning proceeds up to maximum length of 60 minutes.
- When the funtionality is being used in temperatures below -10˚C the ventilation unit must be equipped with a preheater.

COOKERHOOD FUNCTION

- The purpose of cooker hood functions is to compensate air pressures when cooker hood is used.
- Pressure compensation is done by increasing the supply air flow. (or/and decreasing the exhaust air flow.)
- Cooker hood function is started when damper is opened from Smart hood, or when configured input is activated.
- When the funtionality is being used in temperatures below -10˚C the ventilation unit must be equipped with a preheater.

CENTRAL VACUUM CLENER FUNTION

- The purpose of CVC functions is to compensate air pressures when CVC is used.
- Pressure compensation is done by increasing the supply air flow. (or/and decreasing the exhaust air flow.)
- CVC function is started manually from User Panel or when configured input is activated
- When the funtionality is being used in temperatures below -10˚C the ventilation unit must be equipped with a preheater.

THE SMART ADVANTAGES IN A NUTSHELL

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- Saves energy by lowering ventilation automatically when not needed
- Guarantees healthy indoor and fresh air by increasing ventilation automatically when CO_2, RH or VOC levels increase
- Helps to prevent moisture problems by increasing ventilation automatically when needed
- Quarantees balanced ventilation in your apartent.

Above all, you don't need to worry about ventilation. You can just relax and let Smart do it all automatically!