



Healthy living



**MAICO**

VENTILATOREN



**aeronom**

Room air system WS 250

Less heating costs  
in single family houses

Comfort climate included

# aeronom Room air system WS 250

Good air at all times

The new aeronom WS 250 combines high room comfort with significant energy savings. The system automatically controls the supply of fresh air – all year long. Thanks to the new control, in winter the air is comfortably heated and in summer sufficiently cooled. A plus for comfort and wellness.

## More comfort with up-to-date technology

- WS 250 room air system with intelligent control provides tailor-made room climate.
- With integrated bypass channel for summer operation. Cool air enters the rooms, controlled by a temperature sensor.
- Very efficient heat recovery.
- A significant fact of the WS 250 is its constant air flow. The most important advantages are:
  - Quick and easy system adjustment during initial set-up for operation. This saves time and costs.
  - Constant air volume, even when the filter is dirty.
- With filter change indicator.
- Extremely quiet thanks to enhanced sound insulation.
- The integrated frost protection heating also ensures trouble-free operation in winter.
- With extremely efficient pollen filtering.
- DIBT-approval No. Z-51.3-104



WS 250 is certified as component suitable for passive houses

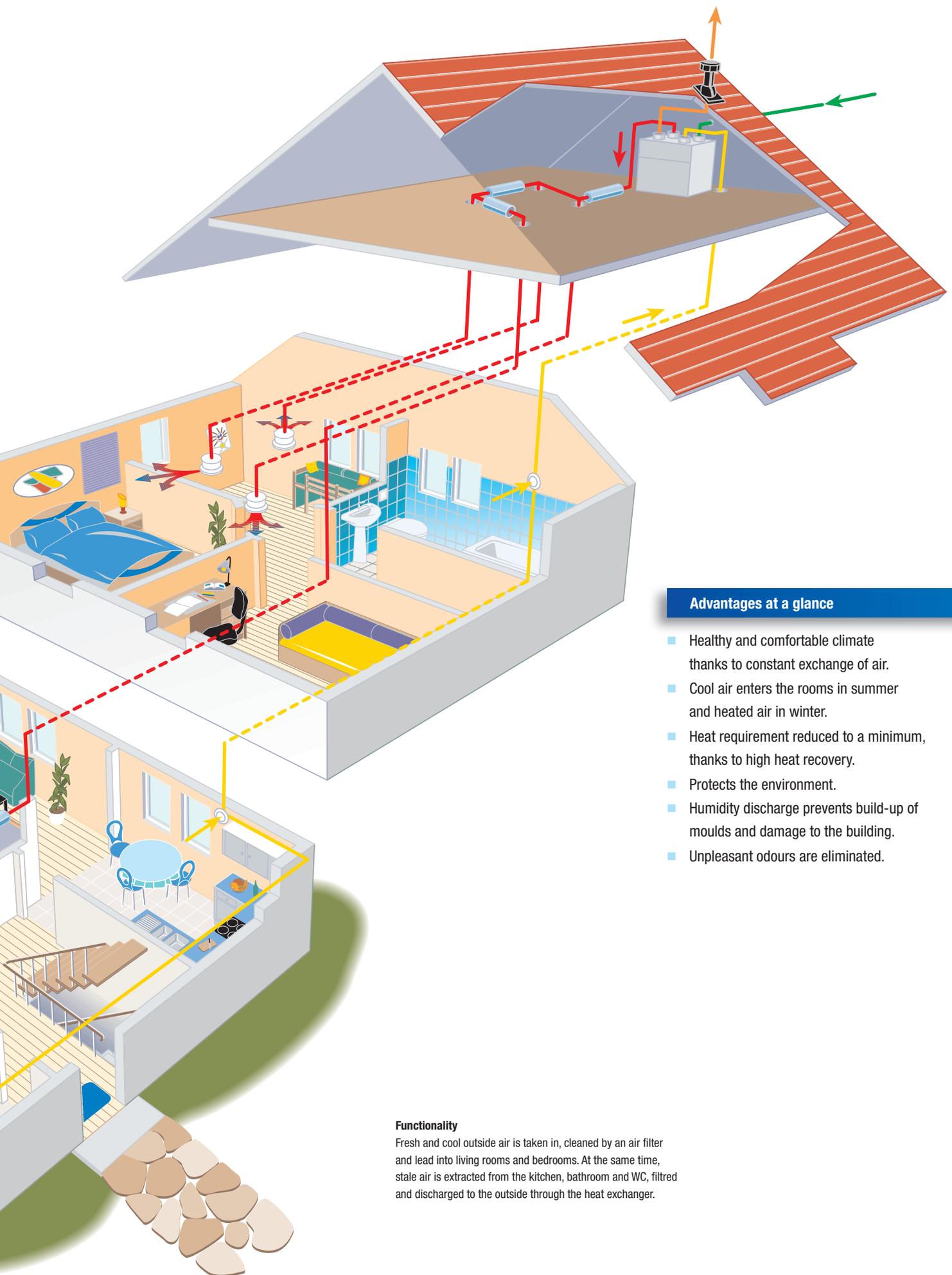
Passivhaus Institut  
Dr. Wolfgang Feist  
Rheinstraße 44/46  
D-64283 Darmstadt



Central ventilation system for installation in one-family homes, in particular in: **low energy houses and passive houses.**

- Supply air
- Exhaust air
- Outside air
- Outgoing air





#### Advantages at a glance

- Healthy and comfortable climate thanks to constant exchange of air.
- Cool air enters the rooms in summer and heated air in winter.
- Heat requirement reduced to a minimum, thanks to high heat recovery.
- Protects the environment.
- Humidity discharge prevents build-up of moulds and damage to the building.
- Unpleasant odours are eliminated.

#### Functionality

Fresh and cool outside air is taken in, cleaned by an air filter and lead into living rooms and bedrooms. At the same time, stale air is extracted from the kitchen, bathroom and WC, filtered and discharged to the outside through the heat exchanger.

# Tailor-made living comfort

Control with virtually unlimited possibilities



## Easy to handle control module:

- All standard settings that are responsible for optimum daily ventilation run in **automatic mode**. Ventilation duration and intensity are controlled for different times of the day and days of the week. The settings are individually adjustable. They can be modified or entered in programming mode.
- Quick programm changes are possible in **manual mode**. For example for vacation, during interim periods in spring or autumn or for ventilation as and when required. The automatic mode settings are not affected.
- **Summer/winter key**  
In summer operation, the integrated temperature sensor controls whether heated or cooled air enters the rooms. The air is automatically lead past the heat exchanger through the bypass channel. In winter operation, the system always operates with the heat exchanger.
- You can press the **ventilation step key** in automatic mode, for example, to get rid of cigarette smoke. After one hour the system switches back to its basic setting.

Besides the current basic settings, additional information is displayed

- Temperature display
- Filter change indicator
- Operation and disturbance messages



# Efficient technology

Technical details, performance features, characteristic curves



## WS 250

### Technical details

- Housing made of plastic powder coated galvanised sheet steel, pure white similar to RAL 9010
- 4 DN 160 duct connections
- Protection class I
- Protection type IP 00
- G 4 and F 7 filter class
- Dimension: 759 x 854 x 531 (w x h x d)
- Weight: 80 kg

### Performance features

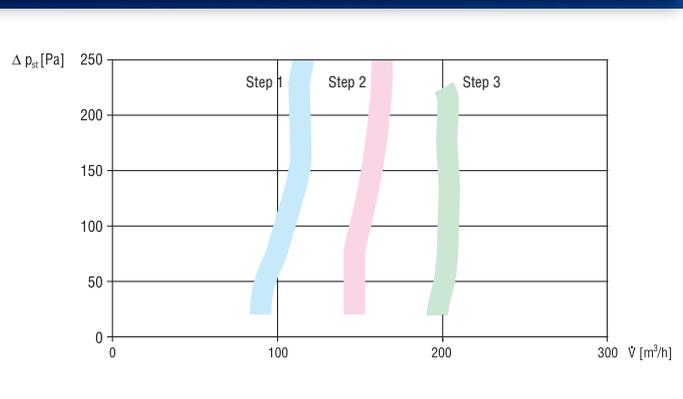
- Air volume up to 270 m<sup>3</sup>/h
  - Pre-set at plant
  - step 1 100 m<sup>3</sup>/h
  - step 2 150 m<sup>3</sup>/h
  - step 3 200 m<sup>3</sup>/h
- Power consumption at 50 Pa
  - step 1 30 W
  - step 2 50 W
  - step 3 62 W
- Sound power level / housing reflection
  - step 1 32 dB
  - step 2 38 dB
  - step 3 43 dB

## aeronom WS 250 room air system

### Enhanced technology

- Counter-cross heat exchanger with high heat recovery
- Effective degree of heat provision of 85 % and electrical efficiency of 0,35 W/h m<sup>3</sup>, tested and certified by Passivhaus Institut
- No additional heating required
- Air volume adjustable in steps of 5 m<sup>3</sup>/h on the control module
- DC motors with low energy consumption
- With filter change indicator
- Operator unit included in scope of delivery
- Easy filter change
- Easy installation in attics, cellars, storage or utility rooms
- With integrated anti-freeze protection
- Parallel operation with fireplaces (Please consider requirements and check with chimney sweep master in charge!)

### Characteristic curves (tolerance ranges)

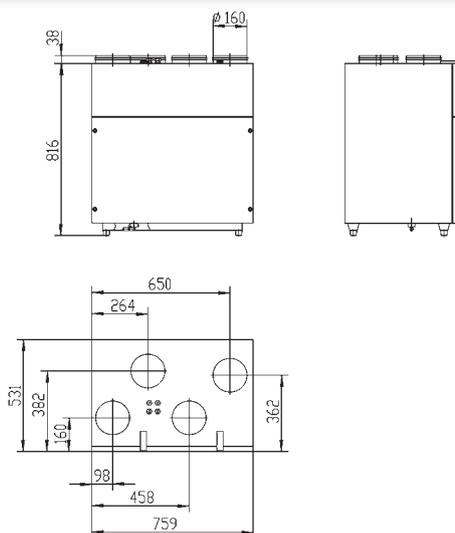


# Technical details

## Accessories, additional system accessories, dimensions



### Dimensions (mm)



Even better energy balance with geothermal heat exchanger.  
Supply air is heated by approx. 8 K in winter.  
In summer it is cooled by approx. 10 K.

### Accessories

| Name   | Type     | Article no. |
|--|----------|-------------|
| Spare filter set<br>(2 x coarse dust filter 1 x pollen filter) | WSF 250  | 0093.0890   |
| Spare filter set<br>(2 x coarse dust filter)                   | WSG 250  | 0093.0891   |
| Air quality sensor   | EAQ 10/1 | 0157.0777   |
| Hygrostat  | HY 5     | 0157.0123   |
| Wall bracket   | WSK 250  | 0018.0223   |

### Additional system accessories

| Name  | Type                                    | Article no.                                      |
|---|---|--|
| Brine earth heat exchanger                              | EWT                                     |  |
| External grille   | SG 15                                   | 0059.0904  |
| Shutter   | AP 150                                  | 0059.0952  |
| Roof cowl consisting of:<br>roof outlet<br>roofing tile | DF 160 S<br>DP 160 SB                   | 0092.0375<br>0092.0380                           |
| Air filter  | TFE 16                                  | 0149.0042  |
| Spare filter for TFE 16 (pair)                          | RF 10/16                                | 0093.0690  |
| Water-air heater  | WRH 16-2                                | 0082.0118  |
| Electrical air heater with 2.1 kW                       | ERH 16-2                                | 0082.0102  |
| Duct non-return valve                                   | AVM 16                                  | 0093.0008  |
| Tubular sound absorber                                  | RSR 10<br>RSR 12<br>RSR 16<br>RSR 16/50 | 0092.0311<br>0092.0312<br>0092.0314<br>0092.0324 |
| Duct fixing cuff  | ELR 16                                  | 0092.0111  |
| Synthetic disk valve, supply and exhaust air            | TK 10 / TK 12                           |  |
| Metallic disk valve, exhaust air                        | TFA 10 / TFA 12                         |  |
| Metallic disk valv, supply air                          | TFZ 10 / TFZ 12                         |  |
| Internal grille, adjustable with filter                 | AZE 100                                 | 0059.0959  |
| Door air grille white                                   | MLK 45                                  | 0151.0126  |