



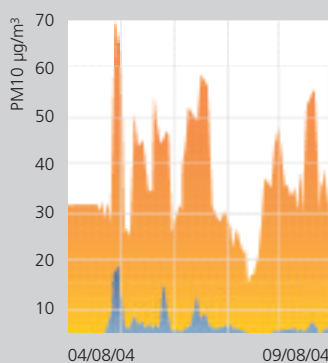
# INNOVENTUS

## A PLEASANT FEEL-GOOD CLIMATE AND HEALTHY AIR

To save energy, houses are being insulated increasingly tightly. But as a result of restricting the natural exchange of air, the interior climate often deteriorates markedly. The unpleasant consequence is increased CO<sub>2</sub> levels and concentrations of particulate matter, spores, fungi and other micro-organisms in the air that the occupants have to breathe.

And yet, this problem is avoidable. The Innoventus ventilation system supplies each room with just the right amount of air from outside. Because the appliance is installed behind radiators, it is very discreet and the filtered air is temperature-conditioned before it enters the room. These non-central ventilation systems can also be retrofitted because there is no need for a central pipework system in the house.

- Ventilation, filtering and soundproofing
- Low power consumption
- Reduces heating costs
- Quiet-running
- Windows can remain closed (burglary protection)
- Can be equipped with filtering of particles larger than 10 µm (normal dust load) or particles larger than 5 µm (high dust load)
- Fits behind radiators and is quick to install



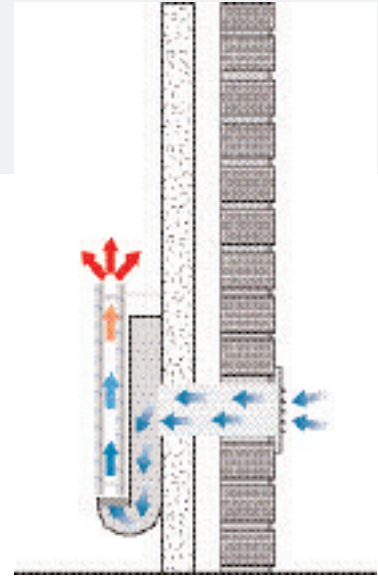
Particulate matter concentrations in the home without (orange) and with (blue) a ventilation system

### Particulate matter

Particulate matter means inhaled particles of dust that are not visible to the naked eye, with an aerodynamic diameter of less than 10 µm. These particles are so minute that they penetrate as far as the pulmonary vesicles, where they can seriously affect the health and even have potentially fatal consequences. Particulate matter is caused by unfiltered incineration processes in industry, trade, households and road traffic, in particular in the form of diesel fumes. The limit value for particulate matter is 50 µg per cubic metre of air and may not be exceeded on more than 35 days per year.

# INNOVENTUS

Innoventus is mounted on the wall behind the radiator and supplied with outside air through a duct in the wall. The air is cleaned by a filter before it reaches the room. Sensors (optional) fitted in each room constantly gauge the air quality and report the values to a central control unit that adjusts the air supply in each room individually.



## Technical data

Dimensions:	370 (H) mm x 410 (W) mm x 142 (D) mm (space required behind radiator: 70 mm)
Housing:	Steel and plastic, white
Power supply:	220-240 V ~ 50 Hz
Control principle:	Via separate central control unit
Pipe passage:	External diameter 104 mm

## Soundproofing (measured acc. to DIN ISO 140-10)

Opened: 54 dB after  $D_{n,e,w}$

## Accessories

- PVC pipe (500 mm long, external diameter 104 mm)
- Weather protection GS 100 (white or brown)
- Weather protection A100 (optional)
- Central control unit (essential)
- CO<sub>2</sub> sensor (optional)
- Outgoing air unit (optional)

## Air capacity, operating noise & energy consumption

(Filter G2 and weather protection GS 100)

[based on DIN 3741, figures acc. to  $L_p$  ( $A_0 = 10 \text{ m}^2$ )]

Air capacity	Operating noise	Power consumption
30 m <sup>3</sup> /h	< 20.0 dB (A)	
60 m <sup>3</sup> /h	30.5 dB (A)	ca. 13 W
90 m <sup>3</sup> /h	39.5 dB (A)	
140 m <sup>3</sup> /h	51.0 dB (A)	
max. > 225 m <sup>3</sup> /h		ca. 43 W

## Filter capacity

Dust particle	Filter G2 (Standard; normal dust load)	Filter F6 (Optional; high dust load)
> 10	50 - 70 %	> 99 %
> 5	15 - 35 %	95 - 99 %
> 3	5 - 15 %	85 - 95 %
> 1	0 - 5 %	50 - 65 %
> 0.5	–	20 - 40 %
> 0.2	–	0.5 - 25 %
> 0.1	–	0 - 15 %

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