



PRODUCT OVERVIEW

DECENTRALISED VENTILATION

Ventilation systems with
heat recovery



DECENTRALISED VENTILATION

FROM INVENTER



Decentralised ventilation from inVENTer. Since 1999.

inVENTer ventilation with heat recovery is the most efficient solution for healthy, energy-saving air exchange in your living space. The decentralised ventilation systems automatically bring fresh air into your home by reliably extracting stale air along with its CO₂, humidity, and toxins, and replacing it with fresh outdoor air.



Anti-pollen, anti-dust.

Allergy sufferers can breathe easy: The fresh air brought in for ventilation is passed through a filter and purified. A special pollen or fine particulate filter can also be added as an upgrade.



Energy-saving ventilation.

The heat recovery feature is a great energy saver for home ventilation. Exhaust air heat is stored temporarily in a ceramic buffer storage component and transferred to the fresh air. This can save you up to 30 per cent on heating costs over the winter.





SO SIMPLE AND SO SMART

DECENTRALISED RESIDENTIAL VENTILATION



EXAMPLE: DECENTRALISED VENTILATION SYSTEM DESIGN



Decentralised ventilation device with heat recovery

- ▶ Two devices always work together.
- ▶ The air flow direction of each switches every 70 seconds.



iV-Twin+ single room ventilation

- ▶ This unit includes two fans running in opposite directions.
- ▶ Particularly well suited for bathrooms and kitchens.

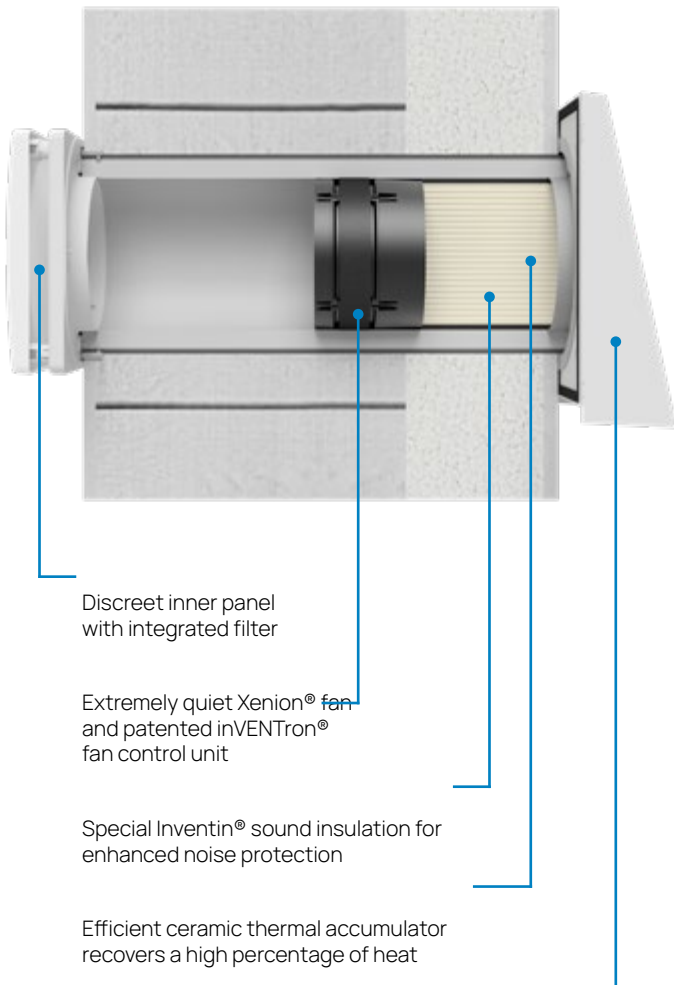


inVENTer Taris exhaust air unit

- ▶ For interior rooms Ventilation according to the DIN 18017-3 standard.

INSTALLATION IN THE OUTER WALL:

- Example: iV14-Zero sound-insulating ventilation device



Discreet inner panel with integrated filter

Extremely quiet Xenion® fan and patented inVENTron® fan control unit

Special Inventin® sound insulation for enhanced noise protection

Efficient ceramic thermal accumulator recovers a high percentage of heat

Secure outer cover for weather protection, available in many RAL colours

UNDERSTANDING HEAT RECOVERY IN FOUR STEPS

- 1 A pair of fans working together in opposite directions bring fresh air in from outside and remove stale air.
- 2 They switch between intake and extraction every 70 seconds.
- 3 The extracted air flows over the ceramic thermal accumulator, which absorbs the heat and transfers it to the incoming air.
- 4 Up to 94% of the heat can be retained.

► YOUR ADVANTAGES



Uncomplicated installation in the outer wall



Complies with the DIN 1946-6 standard



Quick and easy cleaning and maintenance



Energy efficiency: low energy consumption, heat recovery of up to 94%



Suitable for modernisation and new construction



WE BELONG TOGETHER

DECENTRALISED VENTILATION SYSTEM COMPONENTS



Decentralised ventilation devices

Operated in pairs

iV14-Zero sound-insulating ventilation



...or single room ventilation

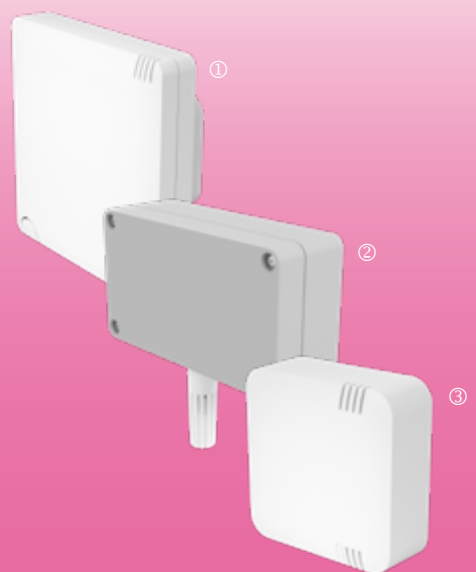
Double fan insert

iV-Twin+ single room ventilation



Ventilation system controller
Wired or wireless

- ① inVENTer Connect wireless controller
- ② sMove touch-and-slide controller



Optional sensors

- ① CO₂ sensor
- ② Outdoor humidity/temperature sensor
- ③ Indoor humidity/temperature sensor



EASY TO INSTALL

MODERNISATION OR NEW CONSTRUCTION:
VENTILATION COULDN'T BE EASIER!



Easy installation in six steps:

1 Ventilation system planning and device positioning

Your ventilation experts use the building data to determine the necessary amount of air and determine how many ventilation devices are required.

2 Sloped wall opening

For new buildings, there are special Simplex wall installation blocks with a prefabricated wall opening and slope. For modernisation projects, a core hole is drilled.

3 Installing the wall mounting sleeve

The sleeve is fixed in place with foam to ensure stable, airtight installation.

4 Installing the ventilation unit

Individual components, such as the heat accumulator and the fan with its control unit, are inserted into the wall mounting sleeve.

5 Attaching the outer and inner covers

The weather protection hood and the inner panel are attached.

6 Connecting the controller

The controller is either wirelessly integrated into the inVENTer Connect system or connected to the ventilation device with a cable.

SHHH! IS IT EVEN ON?



- Sound protection of up to 60 dB with the Corner version
- Whisper mode with 10 dB(A) thanks to Xenion fan, especially for decentralised ventilation
- Easy installation with Simplex
- Sensors maintain warm, comfortable temperature in the winter
- Pressure stabiliser ensures that the system runs smoothly

ULTRA QUIET: IV14-ZERO

The inVENTer iV14-Zero is synonymous with sound-insulating ventilation. The patented sound-insulation system with high-performance Inventin® insulation reduces external and operating noise to a minimum, with a maximum standard sound level difference of 56 dB (60 dB with the Corner design). The Xenion® fan and the inVENTron® technology routes air effectively through the ceramic heat accumulator for heat recovery of up to 87%, and the integrated sensors protect the system from winter cold and strong wind. The Simplex wall installation system simplifies installation in new buildings.

TECHNICAL DETAILS

Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Power consumption [W]	1 – 3
Volume flow related power consumption [W/(m³/h)]	0.15
Sound pressure level, 2 m [dB(A)]	10 – 31
Standard sound level difference [dB]	48 – 60
Wall opening [mm]	Ø 225
Operating temperature [°C]	-20 – 50
Energy efficiency class	A+ / A

ACCESSORIES

- Pollen filter, activated carbon filter
- Windbreak
- Increased sound protection
- Sensors (air quality, humidity/temperature)



Available
versions



- Discreet outer cover in the window reveal
- Integrated into facade insulation
- Standard sound level difference up to 60 dB



- Subtle facade grille: only 280 x 86 mm (W x H)
- Available for brick buildings and external insulation systems
- Quick installation with Nordplex, pre-installed wall mounting sleeve

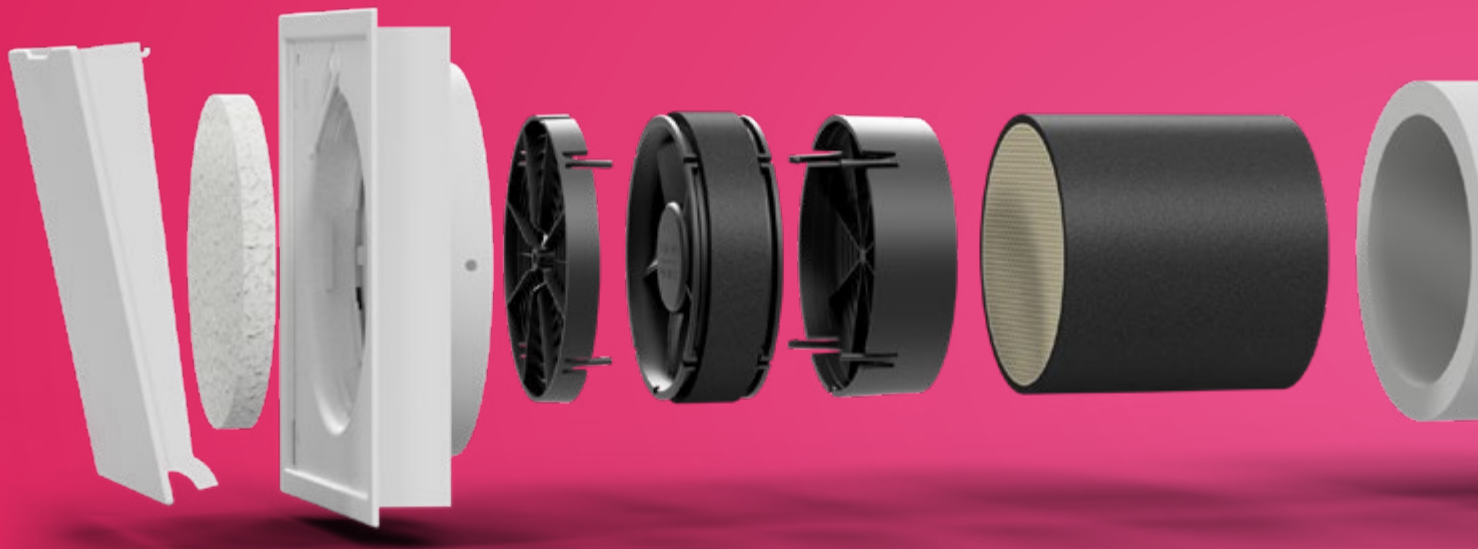
DISCREET, DECENTRALISED VENTILATION

Flush with the wall and discreet for clean interior design

Clean indoor air thanks to filters

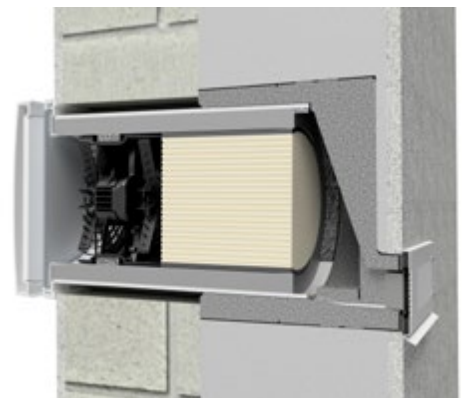
Powerful, quiet Xenion® reversible fan

Ceramic heat accumulator for more efficient ventilation



iV14-ZERO NORDIC CONNECT

Discover the iV14-Zero Nordic Connect! This smart decentralised ventilation system makes everything easier – from customisable planning to fast installation. Don't worry about outer covers or inner panels: this system will blend perfectly into your living space. Wireless control with inVENTer Connect combined with exceptional sound protection gives you a healthy home and effective, automatic moisture protection. Sensors automatically adjust air volume. At 87% heat recovery, the iV14-Zero is also an energy-saving champ.



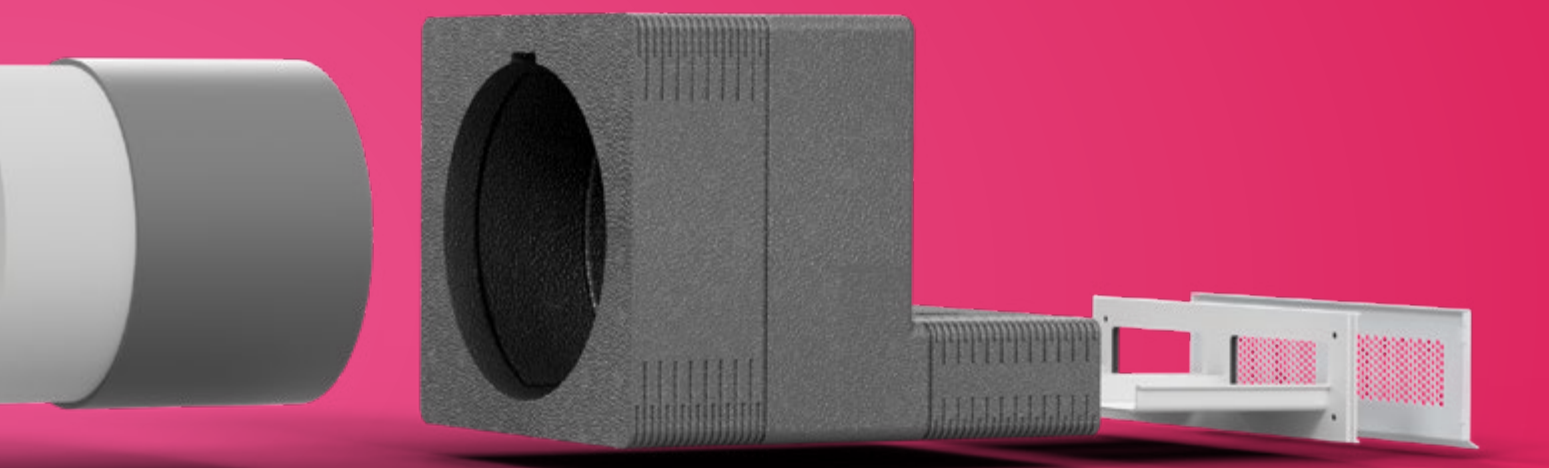
Nordic installed in external insulation

ON.

Extremely quiet thanks to patented Inventin® sound insulation

Nordic with integrated slope and passage through the facade

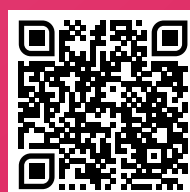
Flush, slim-line ventilation grille in the colour of your choice



TECHNICAL DETAILS

Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	10 – 31
Standard sound level difference [dB]	49 – 55
Power consumption [W]	1 – 3
Wall opening [mm]	Ø 225
Energy efficiency class	A+ / A

VIRTUAL TOUR!



Experience the discreet decentralised inVENTer ventilation system in its natural environment: at home!

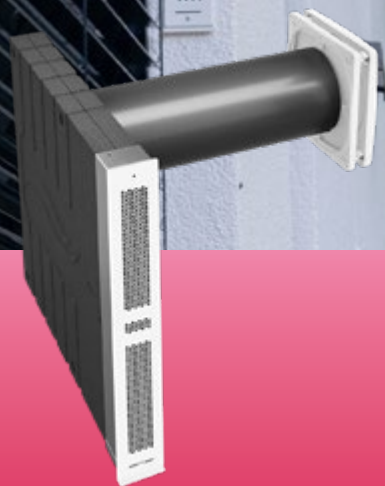
With new perspectives and exciting details!

► inventer.de/virtueller-rundgang

RICH VARIETY: THE IV-SMART+



COMPACT AND POWERFUL
IV-SMART+



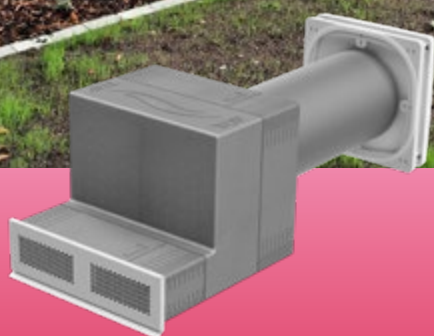
ELEGANT IN THE WINDOW REVEAL
IV-SMART+ CORNER

- Hand-held drilling at just 180 mm
- Powerful pair at 58 m³/h
- Integrated sensors counteract wind pressure and winter cold

► Variety of accessories:
sound protection, pollen filter,
activated carbon filter, air quality
sensor

- Discreet air outlet in the window reveal
- Integrated into facade insulation, outer grille in the colour of your choice

► Effective sound protection of up
to 60 dB



DISCREET ON THE FACADE
IV-SMART+ NORDIC



FOR CELLARS AND BASEMENTS
IV-SMART+ SYLT



ATTIC VENTILATION
IV-SMART+ TOP

- Discreet grille in standard brick size for brick buildings and external insulation systems
- Nordplex version with pre-installed wall mounting sleeve and slope

▶ Available RAL colours:
white (RAL9016), copper-brown (RAL8004), grey (RAL9006), charcoal (RAL7016)

- Installation below ground level: with riser pipe
- For basement apartments and cellars
- Ventilation with dew point control with the wireless inVENTer Connect controller

- Attic ventilation
- Installation in the jamb wall, air outlet above the roof
- Outer cover adapted to roof design

IV-SMART+ TECHNICAL DATA

IV-SMART+



Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	14 – 37
Standard sound level difference [dB]	38 – 49
Power consumption [W]	1 – 3
Minimum wall thickness [mm]	270
Weather protection hood, W x H [mm]	279 x 313
Energy efficiency class	A+ / A

IV-SMART+ CORNER



Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	14 – 37
Standard sound level difference [dB]	53 – 59
Power consumption [W]	1 – 3
Minimum wall thickness [mm]	270/ 70 insulation
Weather protection grille, W x H [mm]	70 x 527
Energy efficiency class	A+ / A

IV-SMART+ NORDIC



Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	14 – 37
Standard sound level difference [dB]	42 – 51
Power consumption [W]	1 – 3
Minimum wall thickness [mm]	250
Weather protection grille, W x H [mm]	280 x 86
Energy efficiency class	A+ / A

IV-SMART+ SYLT



Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	14 – 37
Power consumption [W]	1 – 3
Minimum wall thickness [mm]	270
External cover [mm]	Ø 159 x H 880
Energy efficiency class	A+ / A

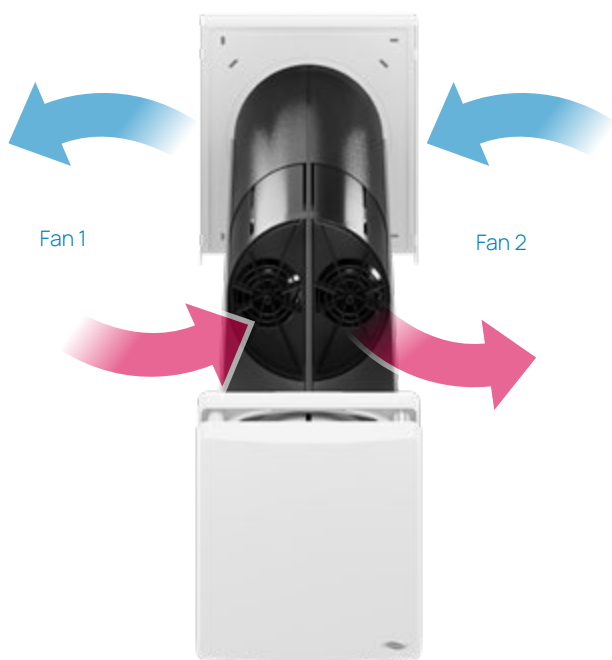
IV-SMART+ TOP



Air volume flow (heat recovery) [m³/h]	8.5 – 29
Air volume flow (exhaust air) [m³/h]	17 – 58
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	14 – 37
Standard sound level difference [dB]	41 – 45
Power consumption [W]	1 – 3
Minimum wall thickness [mm]	270
External cover [mm]	Ø 265 x H 380
Energy efficiency class	A+ / A



BEST SINGLE ROOM DEVICE: TWIN+



Air supply and exhaust in one device: the iV-Twin+ is ideal for ventilating single rooms. Two fans in one device create opposing air flows, and a vertical divider separates them effectively – so there is no need to operate two devices as a pair.

One of the largest ceramic thermal accumulators on the market gives the iV-Twin+ exceptional heat recovery (up to 94%).

This is a great option for moist rooms such as bathrooms, kitchens, and laundry rooms.

3-IN-1 BATHROOM SET: FAN, CONTROLLER, HYGROSTAT!



- Your bathroom ventilation set: iV-Twin+ with heat recovery, sMove s4 touch-and-slide controller, HYG18 hygrostat with digital display
- Also available in the Nordic version with a discreet exterior grille
- Quick installation in new buildings with the Simplex wall installation system: pre-installed wall mounting sleeve including slope

TECHNICAL DETAILS

Air volume flow (heat recovery) [m³/h]	5 – 23
Air volume flow (exhaust air) [m³/h]	10 – 45
Heat recovery [%]	94
Sound pressure level, 2 m [dB(A)]	14 – 38
Standard sound level difference [dB]	45 – 56
Power consumption [W]	0.5 – 3
Energy efficiency class	A+ / A



Scan here for more information and downloads for the iV-Twin+ at www.inventer.eu

WORKING IN THE FRESH AIR

WITH THE POWER-BOOSTED iV-OFFICE



Maximum power, minimum noise – this is ventilation with the iV-Office. The Xenion® high-speed EFP fan provides healthy air exchange in offices, daycare facilities, and more.

Thanks to the special Inventin® insulation, the device creates a quiet, relaxed "fresh-air" working environment starting at 12 dB(A) of noise emissions and with up to 55 dB of sound protection. The high exhaust airflow rate (up to 90 m³/h) makes the iV-Office perfect for large-room ventilation. The integrated heat accumulator also provides heat recovery of up to 88%.

EVERYTHING INCLUDED: 4-IN-1 OFFICE SET



- Your decentralised office ventilation set
- Two iV-Office units with powerful Xenion® EFP fans for outer-wall installation
- sMove s8 touch-and-slide controller for manual air volume flow customisation
- CS1 CO₂ sensor for automatic ventilation when you need it

TECHNICAL DETAILS

Air volume flow (heat recovery) [m³/h]	10 – 45
Air volume flow (exhaust air) [m³/h]	20 – 90
Heat recovery [%]	88
Sound pressure level, 2 m [dB(A)]	12 – 37
Standard sound level difference [dB]	49 – 55
Power consumption [W]	1 – 5
Energy efficiency class	A+ / A



Scan here for more information and downloads for the iV-Office at
www.inventer.eu



FOR SPECIAL REQUIREMENTS



SINGLE-ROOM VENTILATION

X-FLOW

- Installation in the outer wall with only two drilled core holes
- Air volume flow of up to 180 m³/h
- Automatic mode with integrated sensors for detecting relative humidity and indoor air quality
- Uncomplicated connection to a 230 V socket
- Ideal for facades subjected to high noise levels

TECHNICAL DETAILS

Air volume flow (heat recovery) [m ³ /h]	50 – 180
Heat recovery [%]	87
Sound pressure level, 2 m [dB(A)]	12 – 32
Power consumption, max. [W]	33.4
Mains voltage [V AC], [Hz]	230, 50
Standby consumption [W]	<1
Energy efficiency class	A



CENTRAL RESIDENTIAL VENTILATION

PAX



- Installation in the exhaust air area
- Up to two additional rooms can be connected
- Suitable for student housing, care homes, and hotels
- Air volume flow is automatically calibrated during commissioning
- Enhanced noise protection

TECHNICAL DETAILS

Air volume flow (heat recovery) [m ³ /h]	30 – 78
Heat recovery [%]	Ø 77, max. 80
Sound pressure level (heat recovery) [dB(A)]	19 – 29
Power consumption [W]	3.5 – 25
Electrical preheating radiator [W]	max. 375
Mains voltage [V AC], [Hz]	230, 50
Energy efficiency class	A

ENERGY-SAVING MODERNISATION



In February 2022, the housing association in Stadtroda, Germany commissioned a plan for ecologically, sustainably, and economically modernising a block of flats – a typical example of a multi-storey residential building.

A residential ventilation plan with heat recovery was prepared for this pilot project. The flats are equipped to allow controlled ventilation as required by the DIN 1946-6 standard.

VENTILATION DEVICES USED

Depending on flat size:

- 4 to 6 iV14-Zero Connect ventilation devices with heat recovery
- 1 Taris exhaust air unit for each interior bathroom and kitchen

PROJECT DATA

Stadtroda, Germany | Energy-saving modernisation of 144 flats

Project: WBS 70-type concrete residential building, Stadtroda, Germany

Upgrades: Decentralised ventilation with heat recovery

Grey water heat recovery

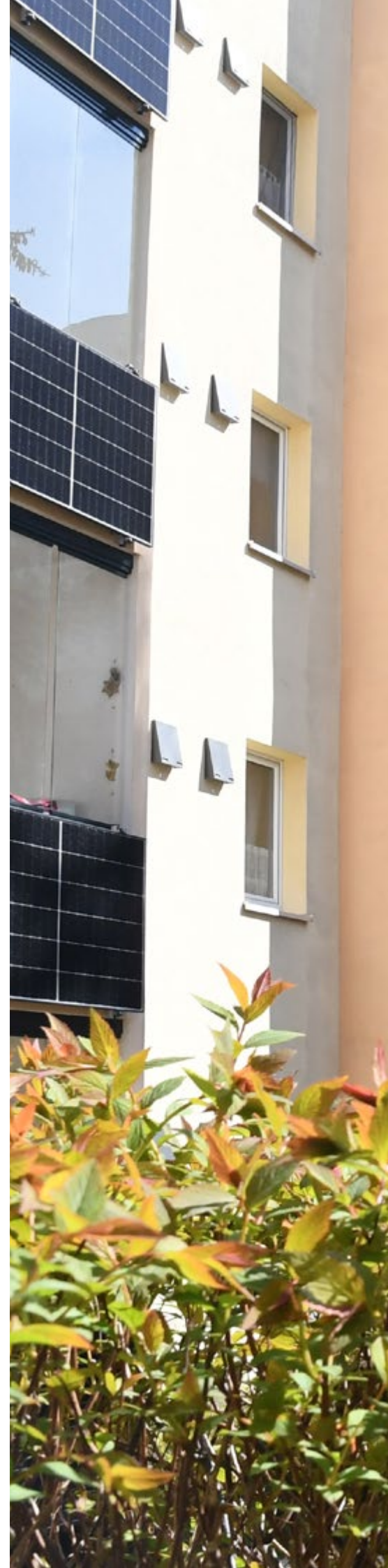
Solar panels (roof system and balcony modules)

Balcony glazing

Funding: Federal Office for Economic Affairs and Export Control

Total CO₂ reduction (technology): 85.6 tonnes per year

Project manager: IBA GmbH Jena







ECO-FRIENDLY CONSTRUCTION



In the middle of the Wiesbaden city centre, at a premium location in the Komponistenviertel neighbourhood, this climate-neutral multi-family house was built to meet the KfW 40+ efficient housing standard. The comprehensive energy consultation included recommendations for the appropriate technical equipment and planning for the future. These measures attracted a large amount of funding and a considerable repayment grant from the public KfW Bank Group.

VENTILATION DEVICES USED

- iV14-Zero sound-insulating ventilation with heat recovery

PROJECT DATA

Wiesbaden, Germany | Multi-family house with funding from the KfW Bank Group

Contractor: Bing72 Projekt GmbH & Co. KG

Energy consultation, ventilation planning as required by the DIN 1946-6 standard: Joachim Schrader, Bauen+Energie

Primary energy demand: 3.7 kWh/m²/year

CO₂ reduction from the reference building: 85%

Amount of public funding:

€300,000 with a repayment grant of €45,000

Energy standard:

KfW Efficiency House 40+



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at www.inventer.eu
[#pureventilation](https://www.instagram.com/pureventilation)

For over 20 years, Ecological Building Systems has been at the forefront of environmental and sustainable building products supplying a range of innovative airtightness solutions and natural insulations backed up with expert technical support.

As product suppliers in the UK and Ireland, we're happy to assist you with your projects and have expert technical and sales advice on hand.



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