

VENTO EXPERT A100-1 S10 W V.2

HEAT RECOVERY SINGLE-ROOM UNITS

Features

- Arrangement of efficient energy-saving, supply and exhaust, single-room ventilation in flats, houses, cottages, social and commercial premises.
- Reducing heat losses caused by ventilation due to heat recovery.
- Humidity balance and controllable air exchange create individually controlled microclimate.
- Wi-Fi data exchange between several single-room ventilation units for coordinated operation.
- Controlled by Android or iOS smartphone or tablet.
- Connection to smart house or Building Management System (BMS).



Air flow:
up to 108 m³/h
30 l/s



Heat recovery efficiency:
up to 83 %



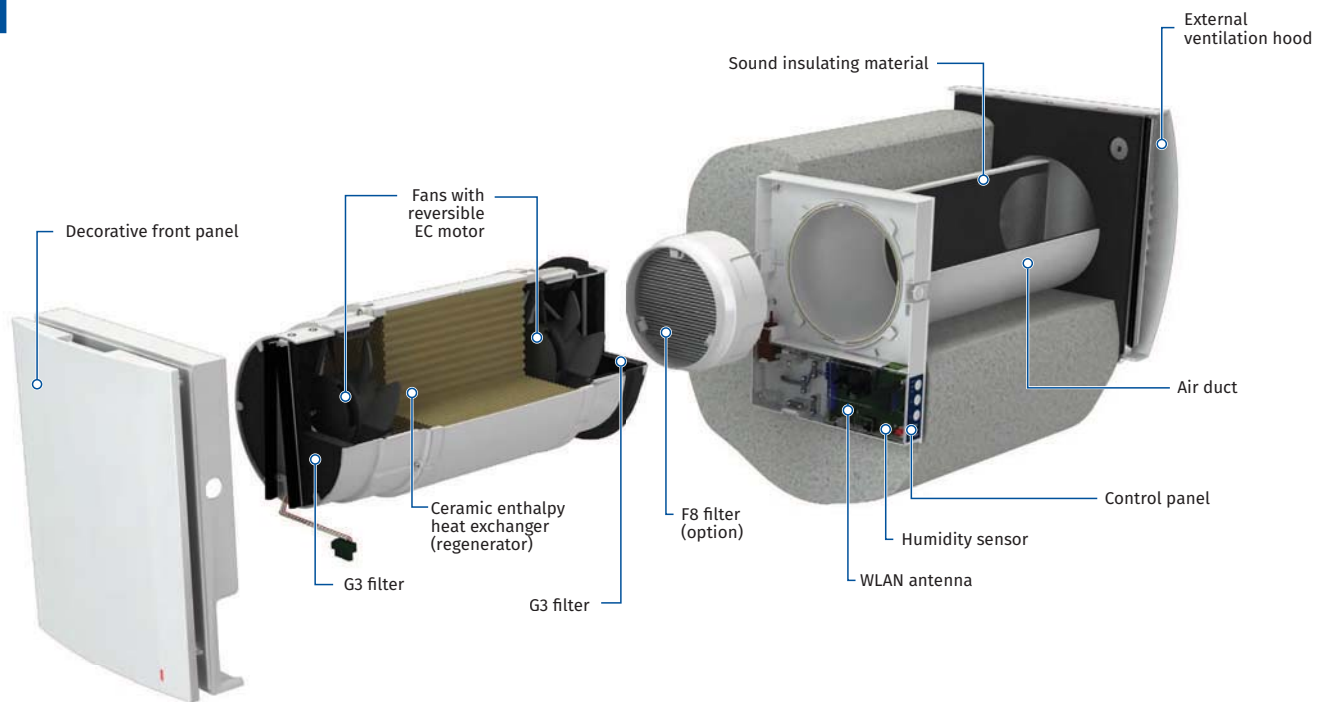
Power: from 3.2 W
SFP: from 0.82 W/l/s



Noise level:
from 13 dBA



Design



One of the best heat recovery efficiency on the market due to innovative hexagonal structure of the heat exchanger cells



Built-in Wi-Fi for wireless communication between units and Android or iOS device control



Integrated automatic air shutters prevent air back drafting



Easy maintenance. Indoor unit is opened by pressing the latches on both sides. The specially designed front panel can be closed manually to ensure 100 % air tightness and protect against wind impact

Designation key

Model	Air duct	Maximum air flow [m ³ /h]	Unit modification	Ventilation hood type	Control
Vento Expert	A: round air duct	100	-1	S10: plastic outer ventilation hood AH-10 white 160 (for standard walls) S: metal hood (for thin walls)	W V.2: control and setup of the unit with the Wi-Fi mobile application

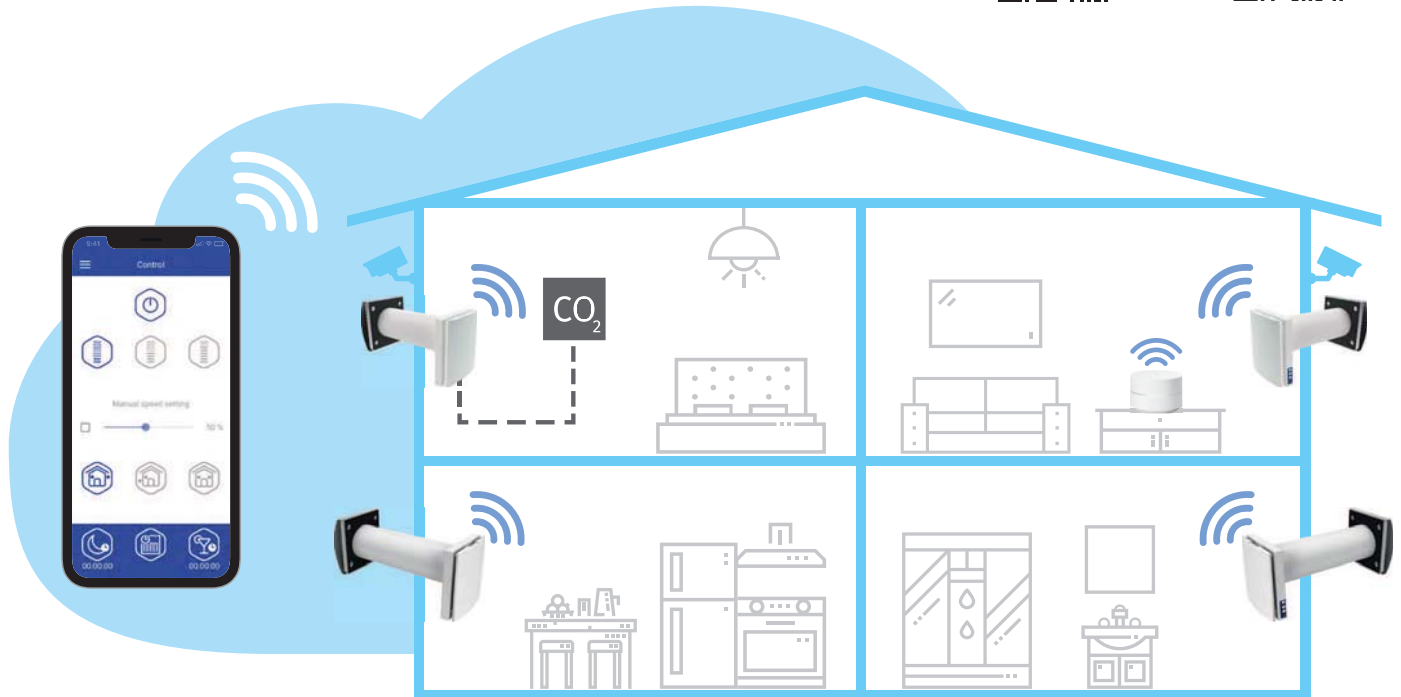
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HEAT RECOVERY SINGLE-ROOM UNITS

Control

- Unit control via smartphone or tablet application.
- The units can be connected by Wi-Fi for synchronized operation.
- House ventilation control via cloud service from anywhere in the world.
- Connection to smart house or Building Management System (BMS) via Wi-Fi.

Blauberg Vento V.2 app for Android or iOS devices is available at Google Play and App Store.



SMART HOUSE

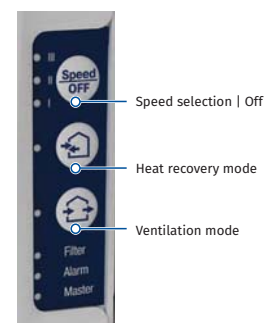
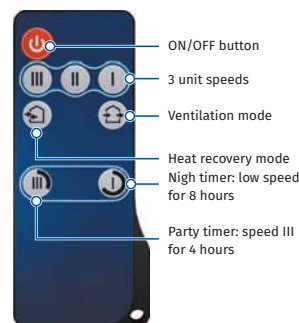


- Vento Expert A100-1 S10 W V.2 either can operate as independent unit or can be connected with other units in a house and controlled with a master unit. In this case, only the master unit receives a signal from the remote control.

- Control of the unit operation mode is also performed by means of the sensor control panel located on the unit casing or the remote control.



Vento Expert A100-1 S10 W V.2



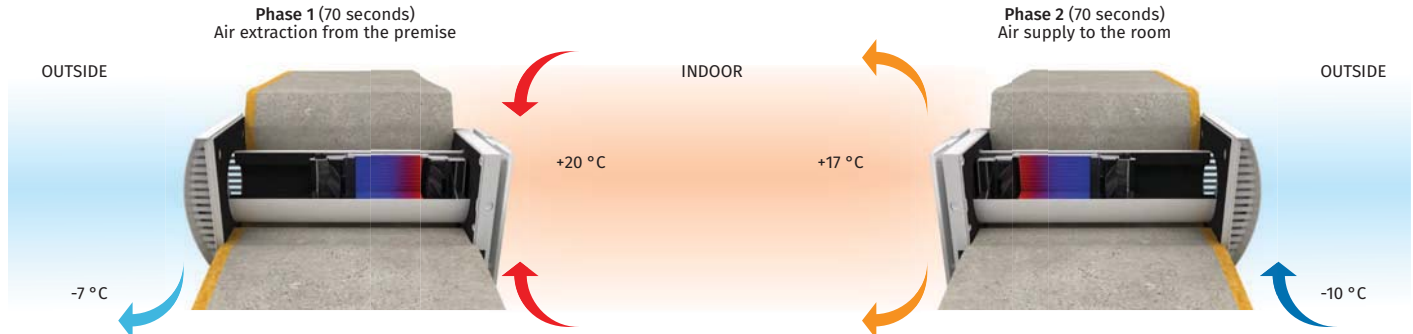
- Vento Expert A100-1 S10 W V.2 is equipped with a humidity sensor for indoor humidity control. If humidity increases above a set point, the unit boosts to the speed III independently on other units in the system.

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HEAT RECOVERY SINGLE-ROOM UNITS

Energy recovery

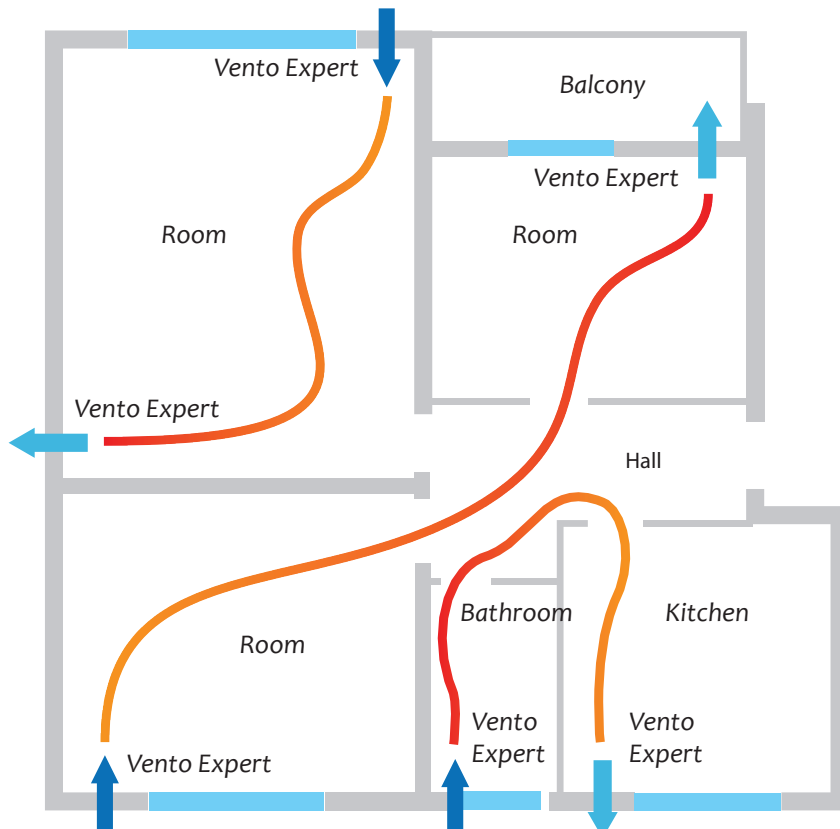
UNIT OPERATING LOGIC IN WINTER PERIOD



- Warm stale air is extracted from the premise, flows through the ceramic heat exchanger and transfers its heat and moisture to it.
- As the ceramic heat exchanger gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the heat exchanger and absorbs accumulated heat and humidity.
- When the heat exchanger is cooled down, the unit switches to the extract air mode.

Mounting

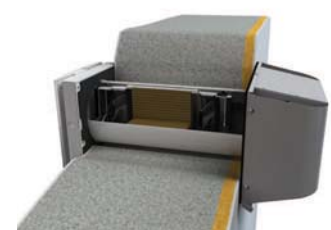
- The unit is designed for through-the-wall installation inside a prepared hole in an outer wall of the building.
- The best ventilation solution is pairwise installation of reverse phase synchronized units. Some units ensure supply of fresh air to the room and the other units extract air from the premise. This way the most efficient balanced ventilation is arranged.
- The Vento **Expert A100-1 W V.2** unit can also be installed in a bathroom and kitchen, if allowed by local building codes. Otherwise, the Vento Expert Duo unit or an extract fan should be installed.



Angular mounting into a wall with standard thickness using **KIT BlauPlast white 160 / KIT BlauPlast chrome 160**



Unit installation example with the hoods for thin walls **AH-S grey 160 / AH-S chrome 160**



VENTO EXPERT A100-1 S10 W V.2

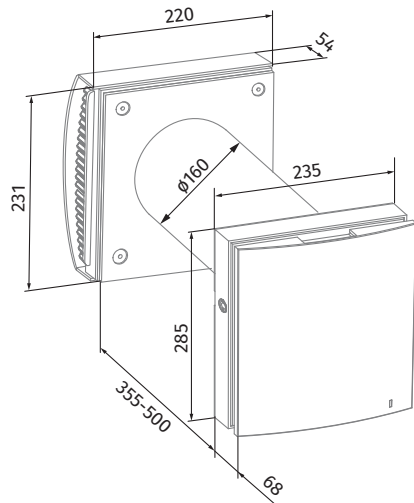
HEAT RECOVERY SINGLE-ROOM UNITS

Technical data

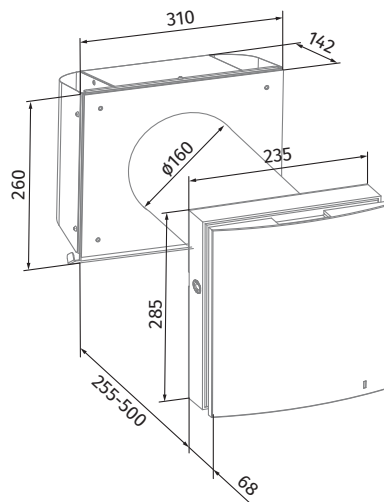
Parameters	Vento Expert A100-1 S10 W V.2 Vento Expert A100-1 S W V.2			
	I	II	III	MAX
Speed				
Voltage [V / 50 (60) Hz]	100-240			
Power [W]	3.20	4.00	6.60	18.00
Current [A]	0.037	0.046	0.071	0.151
RPM [min ⁻¹]	780	1100	1920	2940
Air flow in ventilation mode [m ³ /h (l/s)]	18(5)	30 (8)	58 (16)	108 (30)
Air flow in energy recovery mode [m ³ /h (l/s)]	9 (3)	15 (4)	29 (8)	54 (15)
SFP [W/l/s]	1.28	0.96	0.82	1.20
Filter	G3 (Option: F8 PM2.5 > 99 %*)			
Transported air temperature [°C]	-20 ... +40			
Sound pressure level at 1 m in accordance with ISO 3741:2004 [dBA]	23	27	40	51
Sound pressure level at 3 m in accordance with ISO 3741:2004 [dBA]	13	18	30	42
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	42			
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	up to 87			

* maximum air flow 82 m³/h

Overall dimensions [mm]



Vento Expert A85-1 S10 W V.2














Vento Expert A85-1 S W V.2
(for thin walls)

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HEAT RECOVERY SINGLE-ROOM UNITS

Accessories

Name	Description												
FP Vento Expert A100 G3	 G3 filters (2 pcs.)												
FP Vento Expert A50 F8	 Filter set. Includes: • Plastic frame (1 pc.) • G2 pre-filter (1 pc.) • F8 filter (1 pc.). Filtration rate PM2.5 99 %												
AH-10 *colour* 160	 Plastic outer ventilation hood. Available in colours: <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>white</td> <td>black</td> <td>grey</td> <td>terracotta</td> <td>brown</td> <td>vintage</td> </tr> </table>							white	black	grey	terracotta	brown	vintage
													
white	black	grey	terracotta	brown	vintage								
AH-10 chrome 160	 Plastic outer ventilation hood with a plate with brushed stainless steel effect finish												
AH-11 *colour* 160	 Plastic outer ventilation hood. Available in colours: <table border="0" style="display: inline-table; vertical-align: middle;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>white</td> <td>black</td> <td>grey</td> <td>terracotta</td> <td>brown</td> <td>vintage</td> </tr> </table>							white	black	grey	terracotta	brown	vintage
													
white	black	grey	terracotta	brown	vintage								
AH-S grey 160	 Stainless steel ventilation hood, painted grey												
AH-S chrome 160	 Brushed stainless steel ventilation hood												
PP 160/0.5	 Plastic outer grille with pipe for mounting from indoor												
KIT BlauPlast white 160	 Kit for angular mounting with white color grille (for walls with standard thickness)												
KIT BlauPlast chrome 160	 Kit for angular mounting with stainless steel outer grille (for walls with standard thickness)												
R 160-500	 500 mm air duct and polystyrene foam plug												
R 160-700	 700 mm air duct and polystyrene foam plug												

VENTO EXPERT A100-1 S10 W V.2

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Name	Description
SE Vento Expert W	 Sensor control panel
FB Vento Expert A50	 Remote control
CD-1	 CO ₂ sensor with LED CO ₂ indication and a sensor button for operation mode selection
CD-2	 CO ₂ sensor
S Vento Expert A50	 Cardboard template for indoor installation of the unit