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
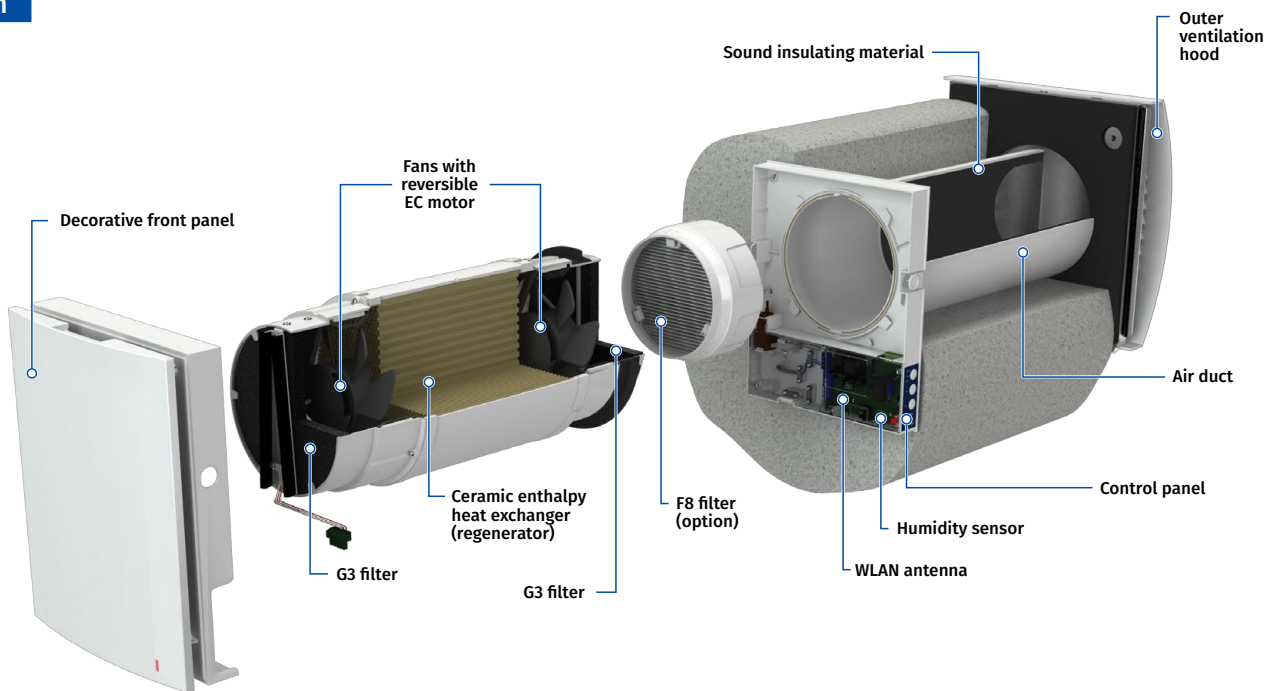30 l/s

Heat recovery efficiency:
up to 83 %

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

Noise level:
from 13 dBA

Design

- Decorative front panel
- Fans with reversible EC motor
- Sound insulating material
- Outer ventilation hood
- Ceramic enthalpy heat exchanger (regenerator)
- F8 filter (option)
- Air duct
- Control panel
- Humidity sensor
- WLAN antenna
- G3 filter
- G3 filter

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
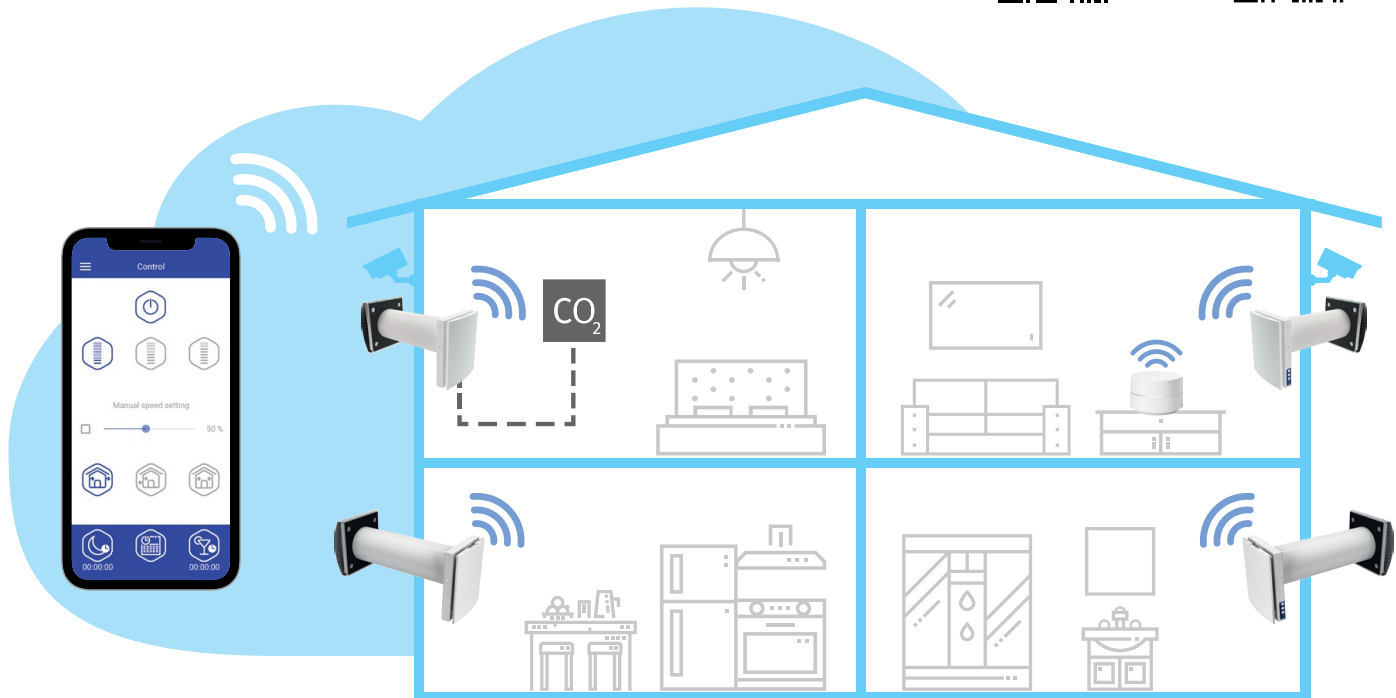
SINGLE-ROOM UNITS WITH HEAT RECOVERY

Designation key

Model	Air duct	Maximum air flow [m³/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

BLAUBERG
Ventilation

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.
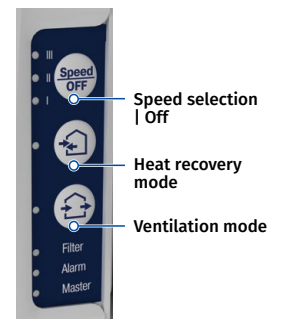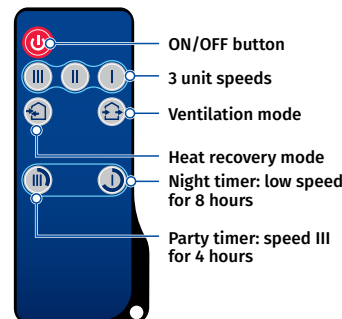
GET IT ON **Google Play**

Download on the **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.

master   slave   slave   slave

Vento Expert A100-1 S10 W V.2

ON/OFF button
3 unit speeds
Ventilation mode
Heat recovery mode
Night timer: low speed for 8 hours
Party timer: speed III for 4 hours

Speed selection | Off
Heat recovery mode
Ventilation mode

- **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.

Ordering Information

Part Number	Model	Description
BLAVENTOA100EXPERTV2	Vento Expert A100-1 S10 W V.2	SINGLE ROOM ERV WITH WIFI CONTROL

Energy recovery

UNIT OPERATING LOGIC IN WINTER PERIOD

Phase 1 (70 seconds)
Air extraction from the premise

Phase 2 (70 seconds)
Air supply to the room

OUTSIDE   INDOOR   OUTSIDE

+20 °C   +17 °C

-7 °C   -10 °C
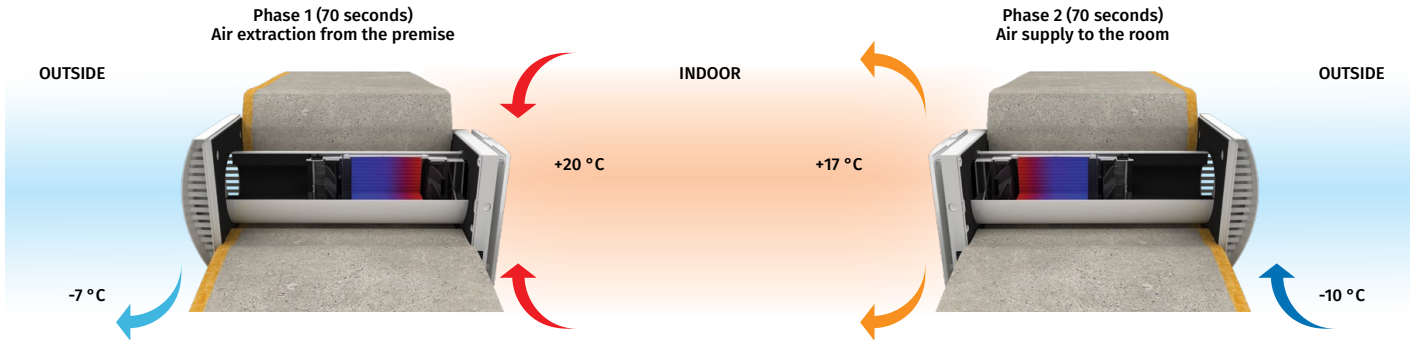
- Warm stale air is extracted from the premise, flows through the ceramic heat exchanger and transfers its heat and moisture to it.
- As the ceramic heat exchanger gets warmed up, the unit switches to the supply mode.

- 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.

Vento Expert

Balcony

Vento Expert

Room

Room

Vento Expert

Room

Bathroom

Kitchen

Vento Expert

Vento Expert
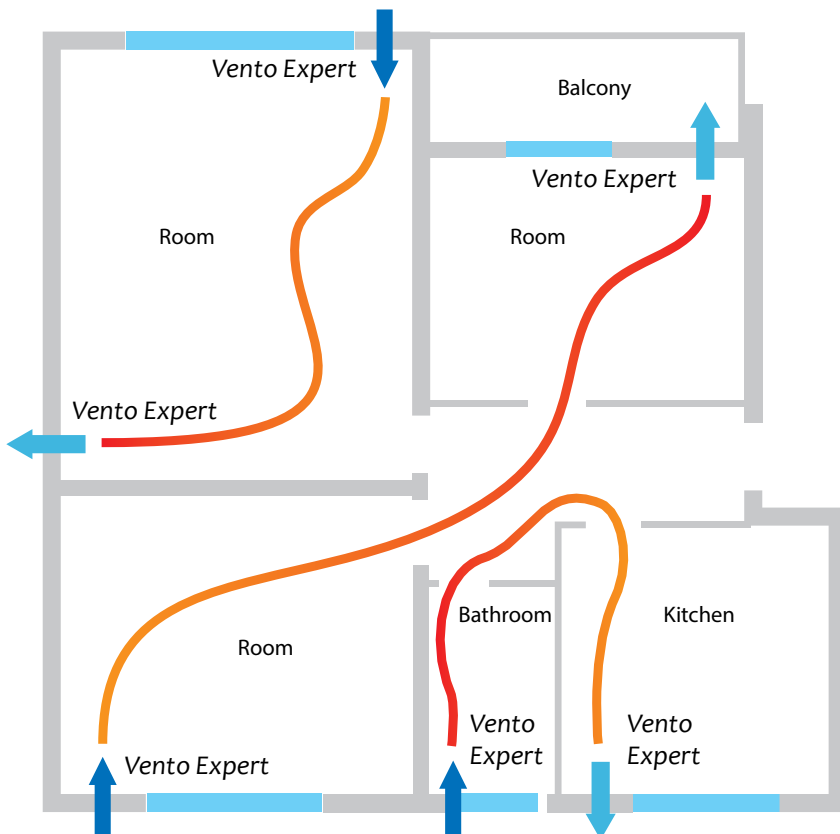
Vento Expert

Angular mounting into a wall with standard thickness using
KIT BlauPlast white 160 / KIT BlauPlast chrome 160
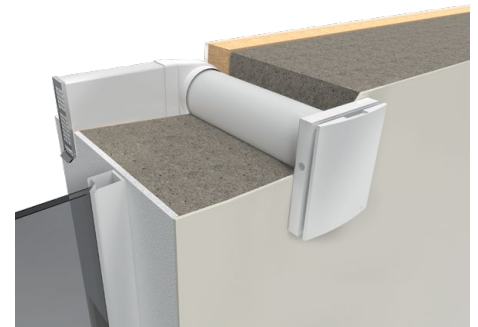
Unit installation example with the hoods for thin walls
AH-S grey 160 / AH-S chrome 160
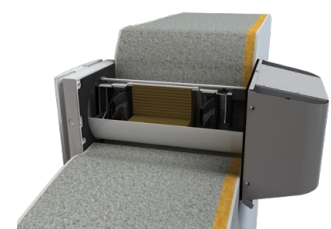
Technical data

Parameters	Vento Expert A100-1 S10 W V.2 Vento Expert A100-1 S W V.2			
Speed	I	II	III	MAX
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 [m³/h (l/s)]	18(5)	30 (8)	58 (16)	108 (30)
Air flow in energy recovery mode [m³/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			
Classification of air flow sensitivity to pressure difference variations in accordance with EN 13141-8	S2			
Indoor/outdoor airtightness classification of the complete unit in accordance with EN 13141-8	D1			
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	up to 87			
Ingress Protection Rating	IP24			

* maximum air flow 82 m³/h

ENERG · ЕНЕРГИЯ · ΕΝΕΡΓΕΙΑ · ENERGIJA · ENERGY · ENERGIE · ENERGI

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BLAUBERG — Vento Expert A100-1 S10 W V.2

A+
A
B
C
D
E
F
G

A

50 dB

54 m³/h

2020 — 1254/2014

Overall dimensions [mm]
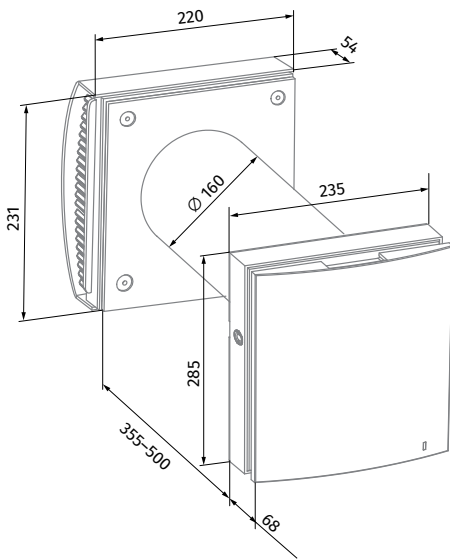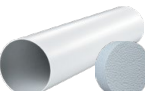
Vento Expert A100-1 S10 W V.2
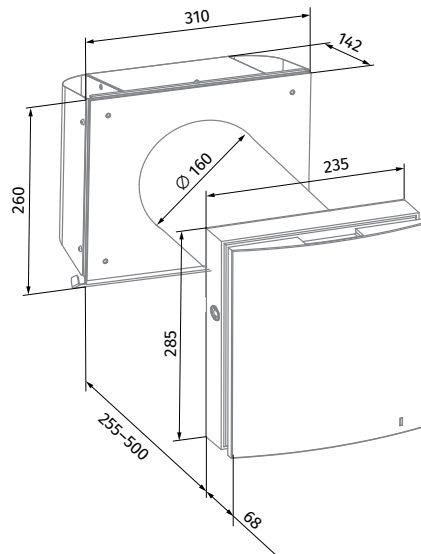
Vento Expert A100-1 S W V.2
(for thin walls)

SINGLE-ROOM UNITS WITH HEAT RECOVERY

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: 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: 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
SE Vento Expert W		Sensor control panel
FB Vento Expert A50		Remote control

SINGLE-ROOM UNITS WITH HEAT RECOVERY

Name		Description
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

SINGLE-ROOM UNITS WITH HEAT RECOVERY