NEW

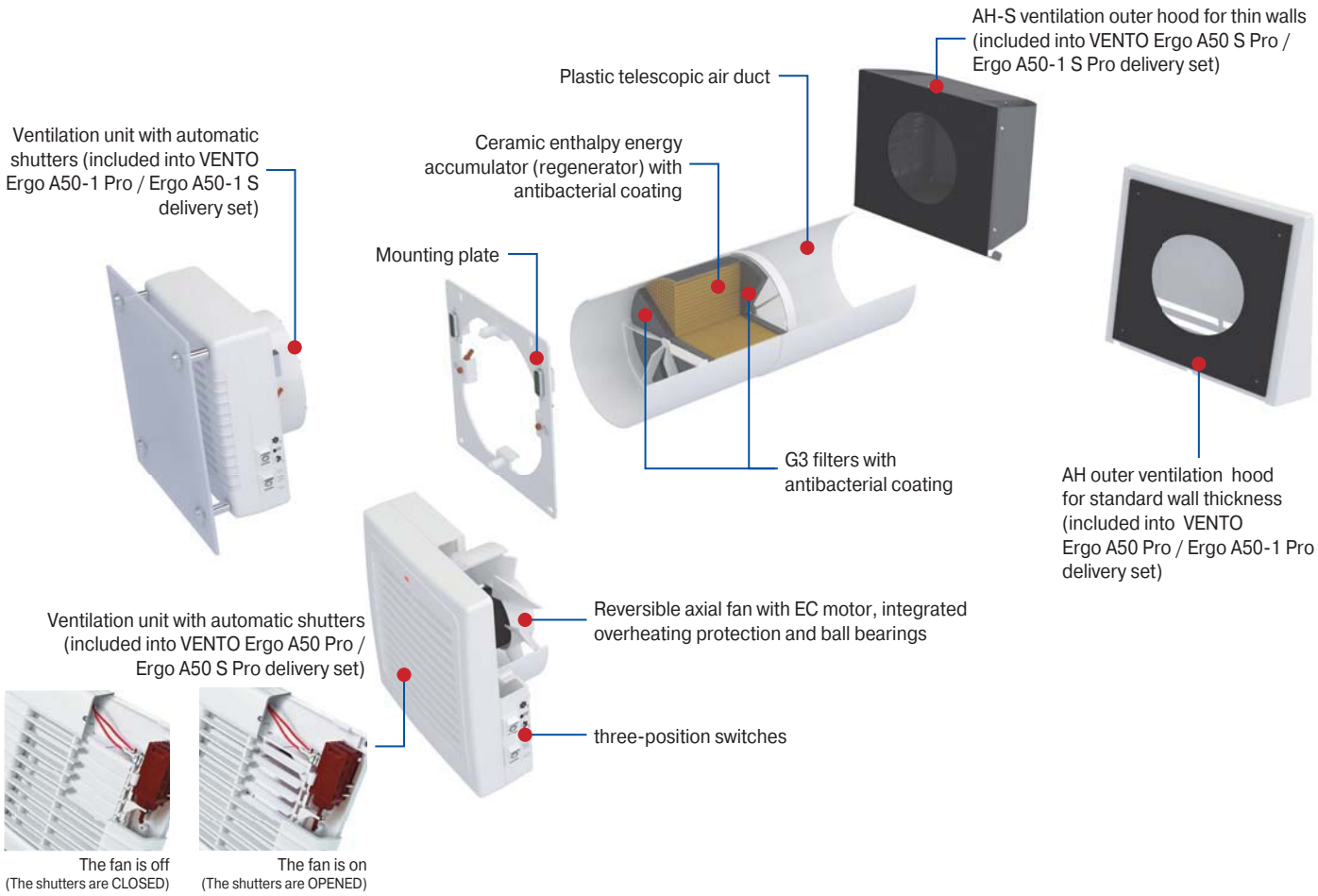
VENTO Ergo A50 Pro
VENTO Ergo A50-1 Pro

Air capacity – up to 51 m³/h
Heat recovery – up to 90%

Use

- 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 regulated air exchange create individually controlled microclimate.
- Coordinated network based on several integrated single-room ventilation units with centralized control.

Design



Heat and moisture regeneration

- High-tech ceramic energy accumulator with heat recovery up to 90%.
- Due to its cellular structure it has larger contact area surface and high efficiency. The energy accumulator is featured with excellent heat-conducting properties and thermal energy storage capacity.

❑ Unit operating logic in winter period

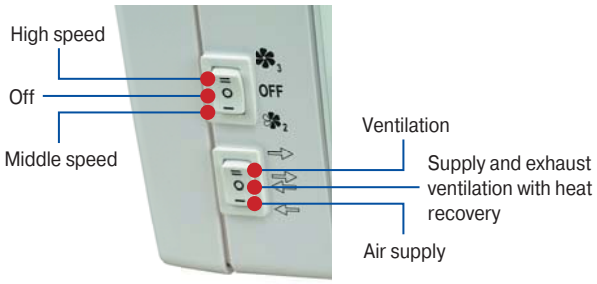
- Warm stale air is extracted from the premise, flows through the ceramic regenerator and transfers its heat energy and moisture to it.
- As the ceramic regenerator gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the regenerator and absorbs accumulated heat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

■ Control

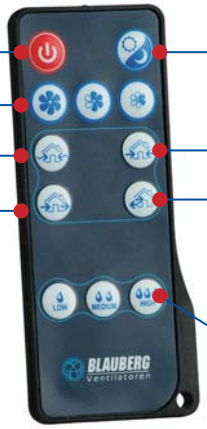
❑ The unit operation mode control is performed by means of manual three-position switches located on the unit casing or a remote controller.

❑ The unit is equipped with a humidity sensor for indoor humidity control and regulation.

❑ Connection of the units in series enables a central ventilation system.



❑ Remote control and operation mode selection:



Unit **activation/deactivation**

3 unit speeds

Passive air supply mode:
The automatic shutters are opened, the fan does not run.

Ventilation mode:
The integrated units operate in permanent air supply or air extract mode depending on settings during mounting. The unit is set into air extract mode by default.

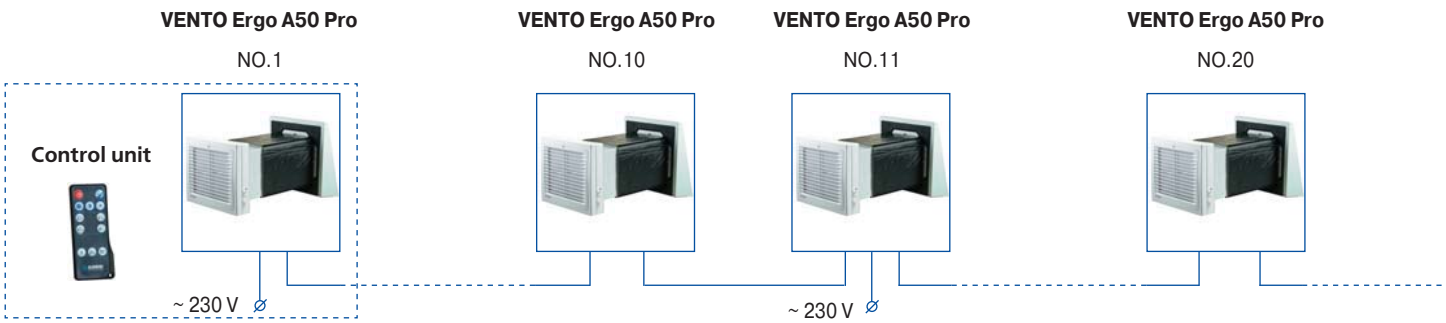
Night mode:
In the night the unit is switched to low speed mode by the photo sensor.

Air supply mode:
The unit operates in permanent air supply mode.

Reversible ventilation with heat recovery:
The unit switches from supply to extract mode and vice versa in set time periods and transfers the heat and moisture contained in the extract air to cold intake air in winter or the coolness in summer through the ceramic heat exchanger.

Humidity control mode:
Set required humidity level (45, 55 or 65 %). The unit automatically maintains the comfortable set indoor humidity point.

❑ Connection of several units in series enables their synchronous control by the first unit. For connection of the units in series connect the contact socket on the mounting plate of the first unit with the contact socket of the second units. Connect the third unit with the second one in the same way, etc. The signal from the remote control is received by the first unit only.



Mounting

❑ The unit is designed for external through-the-wall installation inside a prepared round hole in the outer wall of the building.

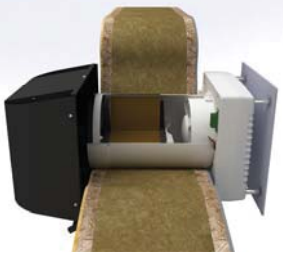
❑ The best ventilation solution is pairwise installation of reverse phase connected units. Some units ensure supply of fresh air to the room and the other units provide air extract from the premise. This allows to arrange the most efficient balanced ventilation.

❑ In case of brand new construction the units are mounted in two stages:

• **pre-installation** at the stage of the indoor finishing and outer decorative wall finishing. It includes installation of the telescopic air ducts, outer ventilation hood and laying out of electric cables.

• **final mounting** before commissioning of a house. It includes installation of the regenerator, the filters, connection of the ventilation unit**.**

❑ If mounting of the ventilation hood on the outer wall is undesirable it may be flush mounted and the external grille may be inserted into the outer window jamb using the KIT BlauPlast 204x60-1 pre-installation kit. Available upon separate order.



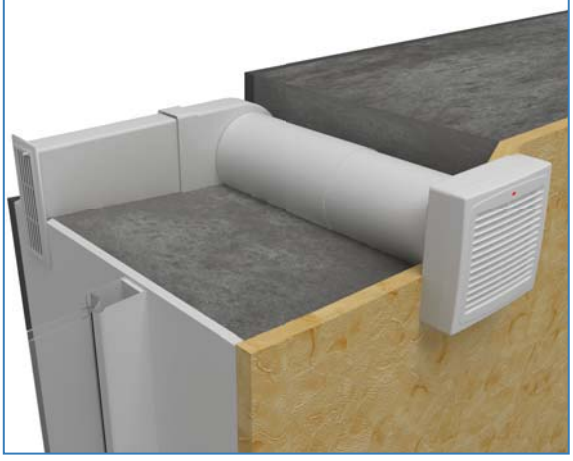
VENTO Ergo A50-1 S Pro unit installation example into a thin wall

VENTO Ergo A50 Pro unit installation example into a wall with standard thickness

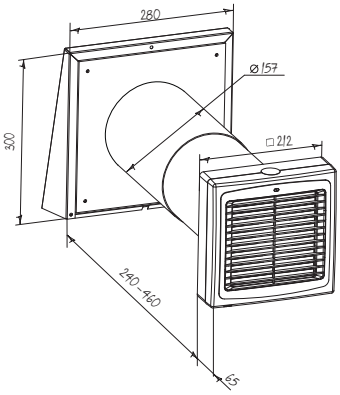
Technical data

Parameters	VENTO Ergo A50 Pro / Ergo A50-1 Pro VENTO Ergo A50 S Pro / Ergo A50-1 S Pro		
Speed	1	2	3
Voltage / 50-60 Hz [V]	100-230		
Power [W]	3,61	3,76	5,33
Current [A]	0,023	0,025	0,037
RPM [min^{-1}]	580	760	1378
Air capacity [m^3/h]	13	27	51
Noise level @ 1 m [dB(A)]	22	29	32
Noise level @ 3 m [dB(A)]	13	20	23
Outdoor sound pressure attenuation [dB(A)]	19		
Regeneration efficiency [%]	up to 90		
Ingress Protection Rating	IP 24		

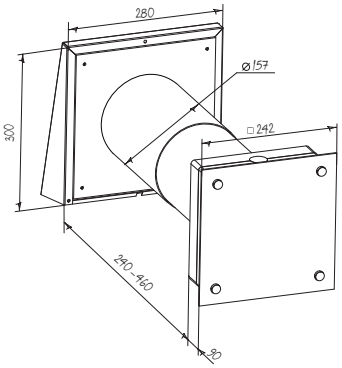
Angular mounting into a wall with standard thickness using **KIT BlauPlast 204x60-1 kit**



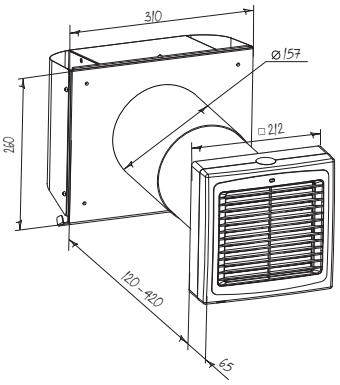
Overall dimensions



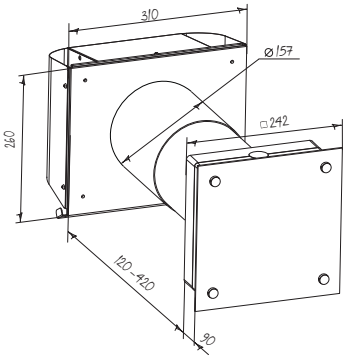
VENTO Ergo A50 Pro



VENTO Ergo A50-1 Pro



VENTO Ergo A50 S Pro



VENTO Ergo A50-1 S Pro

Accessories

Accessory name	Description
Pre-installation kit for mounting into a wall with standard thickness **Pre-installation Kit VENTO Ergo A50**	❑ Includes: • Round Ø150 mm air duct, 120-420 mm long. • AH-S 150 outer ventilation hood. • Plastic foam plug. • Mounting plate.
Pre-installation kit for mounting into a thin wall **Pre-installation Kit VENTO Ergo A50 S**	❑ Includes: • Round Ø150 mm air duct, 120-420 mm long. • AH-S 150 outer ventilation hood. • Plastic foam plug. • Mounting plate.
Final mounting kit **Completion Kit VENTO Ergo A50**	❑ Includes: • Ceramic regenerator Ø150 mm. • VENTO Ergo A50 ventilation unit. • G3 filters.
Final mounting kit **Completion Kit VENTO Ergo A50-1**	❑ Includes: • Ceramic regenerator Ø150 mm. • VENTO Ergo A50-1 ventilation unit. • G3 filters.
Remote control **FB-Vento Ergo**	❑ For controlling the VENTO Ergo units.
Installation kit for angular mounting into a wall with standard thickness **KIT BlauPlast 204x60-1**	❑ Includes: • Plastic ventilation grille 230x86 mm. • Plastic air duct 204x60 mm. • Plastic connecting bend from Ø150 to 204x60 mm.