BLAUBERG Ventilatoren

SINGLE-ROOM VENTILATION

FOR COUNTRIES
WITH HOT AND HUMID CLIMATES

BLAUBERG GROUP

ABOUT US

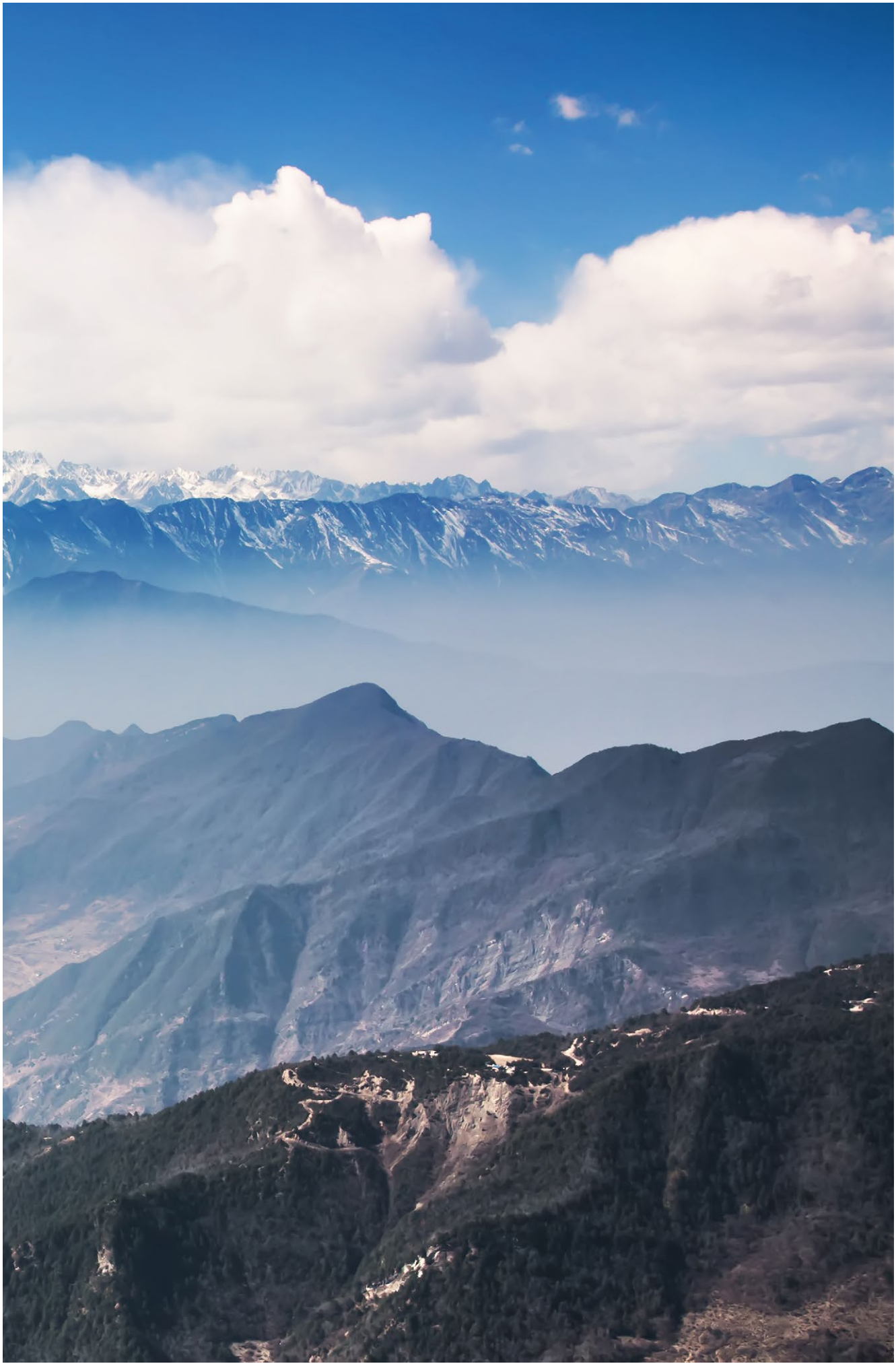
The **Blauberg Group** is an international group of companies offering complete ventilation and refrigeration solutions.
We are a full-service company developing, manufacturing and supplying the widest possible range of products.

Blauberg Group

BLAUBERG Ventilatoren · VENTS · BLAUBERG Motoren · ZERN ENGINEERING

Our products

The Group's companies produce a full range of ventilation products, from domestic fans and air distribution units to high-tech air handling units, single-room and industrial units with heat recovery and modern automation.
Our products combine innovative technologies, modern design, and comply with the international standards for energy efficiency, reliability and safety.



BLAUBERG GROUP

WHY US?

Expertise

Over 300 engineers and technicians with expertise in cutting-edge technology provide innovative leadership, product quality and reliability.

Sustainable development

We create energy efficient ventilation products in environmentally responsible ways striving to leave a minimal footprint by using sustainable raw materials, efficient equipment and by optimizing processes.

Quality

When purchasing the products of the group, our customers can rely on the performance, safety and environmental compatibility, which is confirmed by numerous tests and certificates.

Innovation

Our R&D centre specialists in different countries explore and implement advanced technologies and engineering solutions based on international experience, the latest global trends and market needs.

Blauberg Group worldwide

Blauberg Group offices

Blauberg Group production facilities

Representative and partner offices of the Blauberg Group are located in different countries and continents in order to guarantee timely deliveries and service to our customers.

More than 3 500 highly qualified specialists work in the production area of more than 210 000 square metres to produce modern ventilation products represented in more than 120 countries worldwide.

PRODUCTION SITES

- Germany
- Ukraine
- Poland
- China
- Hungary

8
production facilities

14
representative offices

123
countries worldwide

BLAUBERG GROUP

Production

The Blauberg Group considers investment in up-to-date machinery, innovations and materials from leading global manufacturers to be one of the decisive success factors in the technology sector.

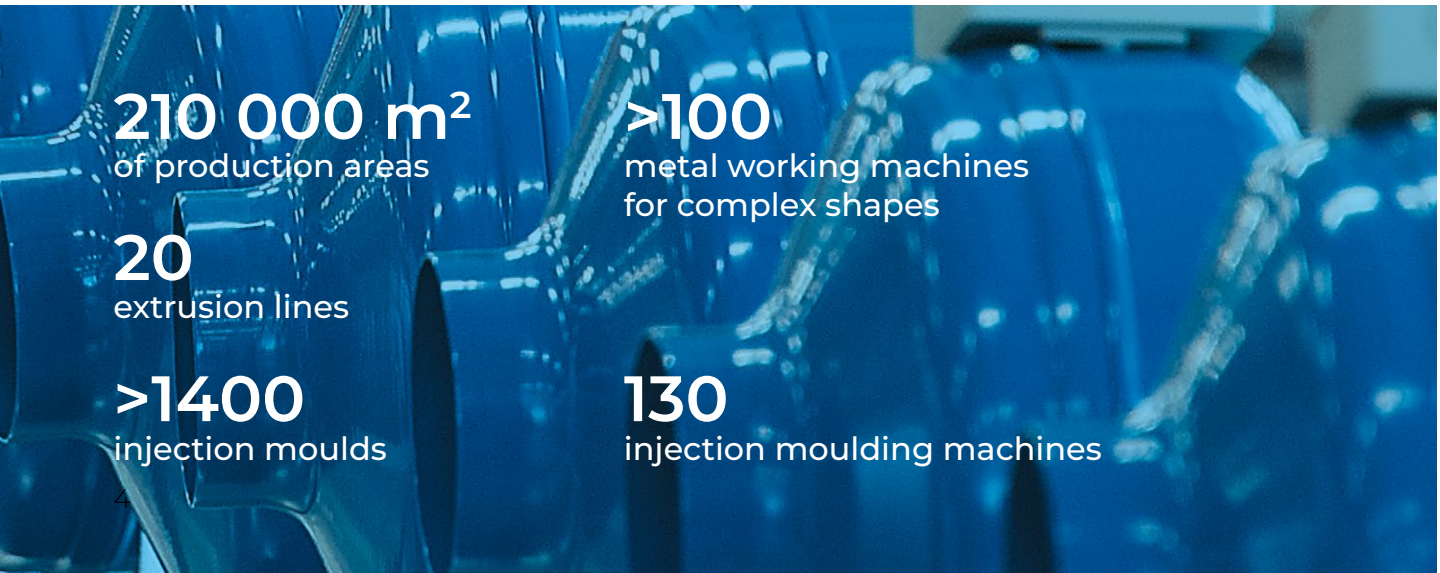
Annual increases in production rates and line renewals enable optimising product costs and offering the market modern, reliable, energy-efficient, safe solutions that meet the highest quality standards.

Equipment

TRUMPF, HAAS, AMADA, salvagnini, battenfeld-cincinnati, Fronius, Gema, SPIRO, Schur, MITSUBISHI HEAVY INDUSTRIES LTD, OKUMA, smipack, lucas, IMCAR Bending & Welding Technologies, Wittmann Battenfeld, ITIB MACHINERY, FB Balzanelli Born to Coil, PHOENIX CONTACT, rinco ultrasonics, WEBER, SCHENCK Passion for Balancing, Panasonic, KMW KRAUSS-MAFFEI WEGMANN

Raw materials

BASF We create chemistry, KUMHO TIRES, LOTTE, INEOS STYROLUTION, CLARIANT, TOSAF, MOL, Anwil GRUPA ORLEN, LG Chem



210 000 m²
of production areas

>100
metal working machines for complex shapes

20
extrusion lines

>1400
injection moulds

130
injection moulding machines

Quality and expertise

All products in the Group comply with the international quality standards. Control is carried out at all stages of product manufacture, from design to production processes and quality control of finished products. This is confirmed by certificates and audits from international organisations.

Audits

Membership

Certificates

What is in the air we breathe?

Breathing clean fresh air is essential for maintaining your health. Overpopulated cities, congested roads, fuming pipes of factories and plants, never-ending development and agricultural activities all have their adverse effects on the air environment. According to the research conducted by the World Health Organisation, the pollution of the air environment and indoor air is a major contributor to the morbidity and mortality around the world. Today 91% of the world population live in cities and have to deal with skyrocketing pollution. The most deleterious effects on the human health are attributed to nitrogen dioxide, harmful particulate matter and elevated ozone concentrations. Buildings under construction and renovation projects may also generate air pollution. A large-scale research of cases related to poor indoor air quality helped to identify the key factors which adversely affect our breathing environment:

50 %

Inefficient ventilation

Inadequate supply of fresh air or poor ducting efficiency.

30 %

Indoor pollutants

The presence of premises-specific pollutants (e.g. formaldehyde, solvent vapours, dust, and microbiological pollution).

10 %

Outdoor pollutants

Pollutants originating from external sources (e.g. vehicle exhaust fumes, pollen, fungal spores, smoke, and dust resulting from roadworks and construction work).

10 %

Other factors

Out-of-range temperature and relative humidity which cause occupant discomfort.

The typical signs of excessively high humidity are:

- Heavy levels of condensation on the inside of window panes
- Damp stains on ceilings and/or walls
- Wallpaper bubbling and coming off the wall
- Drawers and doors sticking
- Mould and resulting physical discomfort

Why do we need ventilation?

Fresh air

The basic purpose of ventilation is to supply clean fresh air into the room.

Balancing the pressure

Ventilation must be properly balanced. Low indoor pressure in the absence of supply units equipped with filters causes dirty outdoor air to seep in through various cracks and openings – moreover, if the walls and windows are air-tight, it will find its way in through the sewerage system if it isn't properly sealed.

A comfortable breathing environment

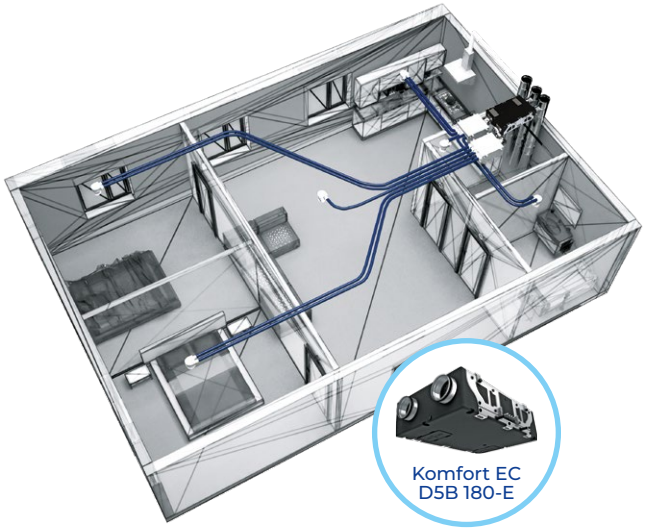
Extract fans remove cold stale air from the building and while wet warm air enters the premises through cracks and leaks in window panes and door assemblies causing a degradation in the indoor air quality and increase a humidity level.

Buildings should be tight – but they should still be able to breathe.
It means that buildings should be tight so that we do not use too much energy on cooling or heating and that they should be able to breathe in order for humid and 'used' air to escape.
Buildings should not breathe through random holes, but through controlled and on-demand ventilation.
Not all buildings have a good indoor climate. This is often because the building contains too much humidity. This can cause both health-related and financial problems. For the building this can mean rot and mould in the structure which can give us asthma and allergies if they are allowed to develop. More and more people are diagnosed with asthma and allergies. Part of the explanation is a poor indoor climate.
The air is damp. Your eyes are dry and irritated. Your head seems heavy and you have difficulties concentrating. A poor indoor climate has a big impact on our ability to function and well-being in our daily life.
Surveys show that a poor indoor climate negatively impacts our performance levels by 5-10%. For children this impact is even greater. That is why we need ventilation.

Ways to organise ventilation in a premise

CENTRALISED
ventilation systems

A single unit is responsible for exchanging the air in all the rooms of a house or a flat.



Features

- This unit supplies fresh air which is cleaned by the built-in filters and extracts stale air from the room.
- A single air handling unit is capable of providing efficient ventilation for the entire home.
- The unit requires a system of air ducts.
- The ventilation modes are selected automatically by the built-in control system.
- Heat energy recovery helps save energy.
- The ventilation system design must prevent air leaks from the spaces filled with stale air into those with fresh air.
- A properly designed system is essential for ensuring an intensive air exchange essential to the occupant comfort.
- The ventilation system operating modes are adjusted from a single point for all the spaces in the home.

SINGLE-ROOM
ventilation systems

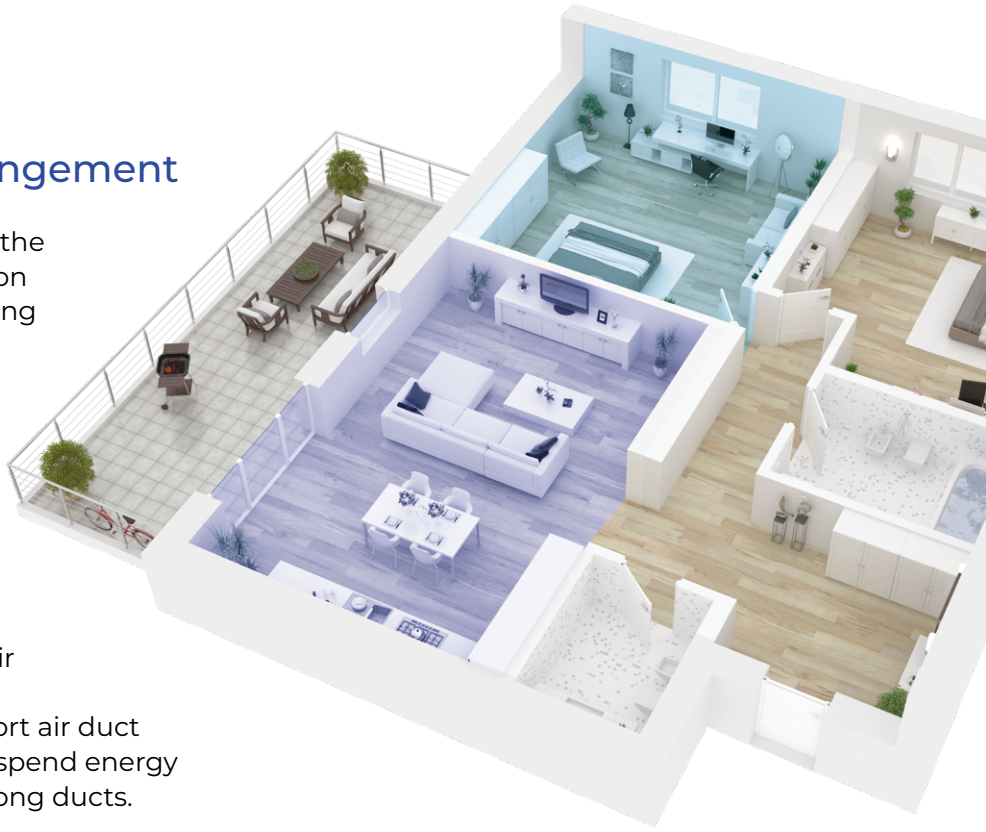
Air supply and extraction are carried out by a separate ventilation unit in each room.

Features

- Fresh air intake, filtration and stale air exhaust to outside.
- Compact ventilators do not require any additional elements or ducts, they are ready for use and designed for direct wall mounting in the outer walls of buildings.
- An individual air flow adjustment is possible for each room of a house or an apartment.
- It is necessary to determine only the performance of the unit at design phase, which significantly simplifies the calculations.
- Low fan power due to direct air discharge contributes to low-noise operation.
- Heat recovery and humidity balance in the premises are achieved through the use of heat exchangers.
- Reduce heating costs in winter and air conditioning costs in summer.

SINGLE-ROOM
ventilation system arrangement

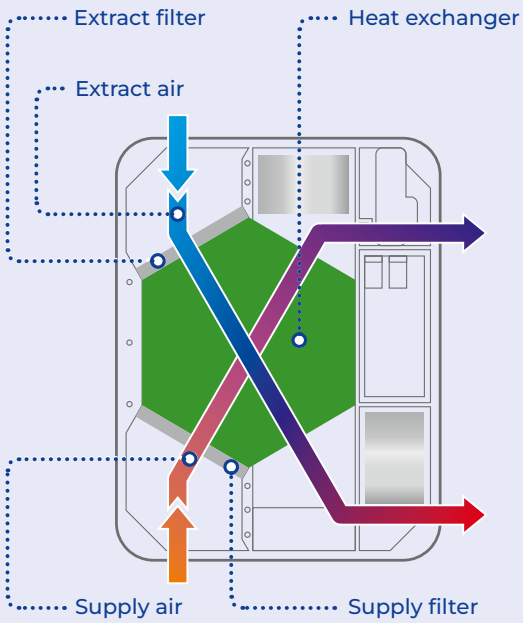
Single-room ventilation system is the most modern and practical solution for creating a comfortable breathing environment and necessary air exchange in reconstructed premises, new and newly settled houses or in residential renovated apartments.



Single-room ventilation improves fire safety due to the absence of air ducts between individual spaces. Fresh air is supplied through a short air duct in the wall, and the unit does not spend energy on overcoming the resistance of long ducts.

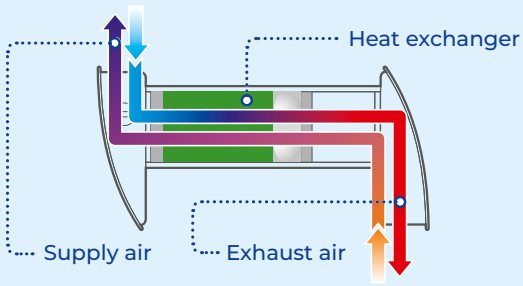
Units with a plate heat exchanger (Freshbox, CIVIC)

- Ensure comfortable breathing environment in a particular room.
- Each space is ventilated on demand.
- Unit speed is set automatically to ensure the proper air quality.
- Direct mounting into the wall.
- Mounting into thin walls without reducing efficiency.
- Simple design makes it fit into any interior.



Units with a ceramic heat exchanger (Vento Expert)

- Ensure a comfortable breathing environment in a particular room.
- Balanced ventilation when even number of units is installed.
- The unit is mounted directly into the wall.
- High efficiency.
- Moisture recovery and no condensate formed.
- Low noise level.
- Suitable for mounting into thin walls without reducing efficiency.
- May be equipped with filters with high filtration efficiency.
- Minimum indoor unit size and easy maintenance.
- May be equipped with an external hood for air outlet to the window aperture, which allows retaining appearance of the facade.



Fresh AI 150
Fresh AI 210

Air flow:
up to 210 m³/h

Heat recovery efficiency:
up to 75 %

Noise level:
from 33 dBA

Heat exchanger
with an enthalpy membrane

WiFi READY

Monitor the concentration of volatile organic compounds, temperature and humidity in real time using a mobile application. Intelligent indoor air quality adjustment

Low noise from 33 dBA

The unit is equipped with an electric heater. Feel comfortable even in winter

Powerful motor, stepless speed adjustment 0-100%, low power consumption

Clean the air and remove formaldehyde, smog, benzene and other pollutants harmful to humans

Maximum power consumption 7 W, one week of operation (7 hours per day) consumes only 1.176 kWh

Parameters	Fresh AI 150			Fresh AI 210		
Supply voltage [V / 50 (60) Hz]	230					
Maximum power consumption [W]	7	16	30	10	26	65
Speed	L	M	H	L	M	H
Air flow [m³/h]	70	110	150	70	140	210
Sound pressure level at 1 m [dBA]	33	43	48	36	48	55
Electric heater [W]	300			400		
Transported air temperature [°C]	-25...+50					
Filter	Carbon+G4+F8+H13			G4+F7+H11		
PM2.5 Filtration Efficiency [%]	99.9			97		
Connected air duct diameter [mm]	75			110		
Weight [kg]	15			27		
Product size (L×W×H) [mm]	795×330×180			1000×467×195		

Freshbox ERV 100
Freshbox ERV 100 WiFi

Air flow:
up to 100 m³/h

Heat recovery efficiency:
up to 98 %

Noise level:
from 13 dBA

Heat exchanger
with an enthalpy membrane

WiFi READY

Efficient solution for supply and exhaust ventilation of enclosed spaces

Silent operation with a low-energy EC motors

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Upgradeable with an exhaust duct to provide air extraction from the bathroom

Electric preheater or reheater modification available for cold climate conditions

Controlled by Android or iOS smartphone or tablet over Wi-Fi

Parameters	Freshbox 100 ERV			Freshbox 100 ERV WiFi				
Speed	1	2	3	I	II	III	IV	V
Voltage [V / 50 (60) Hz]	1~ 110–240			1~ 110–240				
Max. unit power [W]	12	21	45	20	23	29	37	53
Max. unit current [A]	0.4			0.4				
Maximum air flow [m³/h (l/s)]	30 (8)	60 (17)	100 (28)	30 (8)	44 (12)	60 (17)	75 (21)	100 (28)
RPM [min^{-1}]	2200			max 2200				
Sound pressure level at 3 m [dBA]	13	27	39	13	20	27	33	39
Max. operating temperature [°C]	-20...+40			–20...+40				
Casing material	polymer coated steel			polymer coated steel				
Insulation [mm]	10			10				
Extract filter	G4			G4				
Supply filter	G4, F8 (option: F8 C, H13)			G4 + F8 (option: F8 Carbon; H13)				
Connected air duct diameter [mm]	100			100				
Weight [kg]	31			31				
Heat recovery efficiency [%]*	96	89	83	96	94	89	85	83
Heat exchanger type	counter-flow			counter-flow				
Heat exchanger material	enthalpic membrane			enthalpic membrane				
SEC class	A			A				

*Heat recovery efficiency is specified in compliance with EN 13141-8.

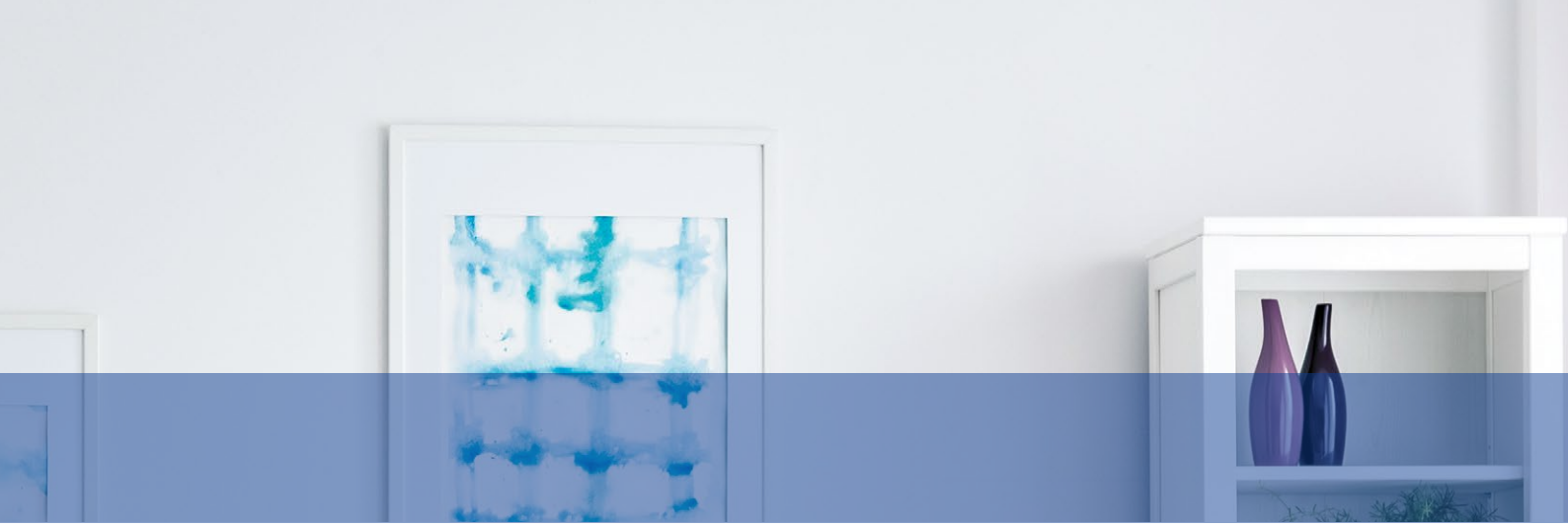
Freshbox 110 ERV
Freshbox 110 K1 ERV

Air flow:
up to 100 m^3/h

Heat recovery efficiency:
up to 98 %

Noise level:
from 10 dBA

Heat exchanger
with an enthalpy membrane



High efficiency ventilation of a single room or a small apartment

Low noise level from 10 dB(A) at 3 m

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Flush or surface mounting option with optional connection of supply and extract semi-rigid air ducts

High level of wind protection

Clean air with an F7 supply filter

Parameters	Freshbox 110 ERV			Freshbox 110 K1 ERV		
Speed	1	2	3	1	2	3
Air flow [m³/h]	30	60	100	30	60	100
Voltage [V / 50 (60) Hz]	1~230			1~230		
Power [W]	10	15	31	10	15	31
Max. current [A]	0.26			0.26		
RPM [min^{-1}]	3200			3200		
Sound power level LwA to environment [dB(A)]	31	41	51	31	41	51
Sound pressure level LpA to environment at 1 m [dBA]	20	30	40	20	30	40
Sound pressure level LpA to environment at 3 m [dBA]	10	21	31	10	21	31
Operating temperature [°C]	–15...+40			–15...+40		
Casing material	polymer coated steel			polymer coated steel, galvanized steel		
Insulation [mm]	10			10		
Extract filter ISO 16890 / EN 779:2012	Coarse 90% / G4			Coarse 90% / G4		
Supply filter ISO 16890 / EN 779:2012	Coarse 90% / G4 Optional: ePM1 65% / F7			Coarse 90% / G4 Optional: ePM1 65% / F7		
Connected air duct diameter [mm]	2×100 mm + optional 1×100 mm			2×100 mm + optional 4×75 mm		
Weight [kg]	20			23		
Heat recovery efficiency [%]*	85	80	72	85	80	72
Humidity recovery efficiency [%]*	45	39	29	45	39	29
Heat exchanger material	enthalpic membrane			enthalpic membrane		
SEC class	A			A		

Freshbox 200 Wi-Fi ERV

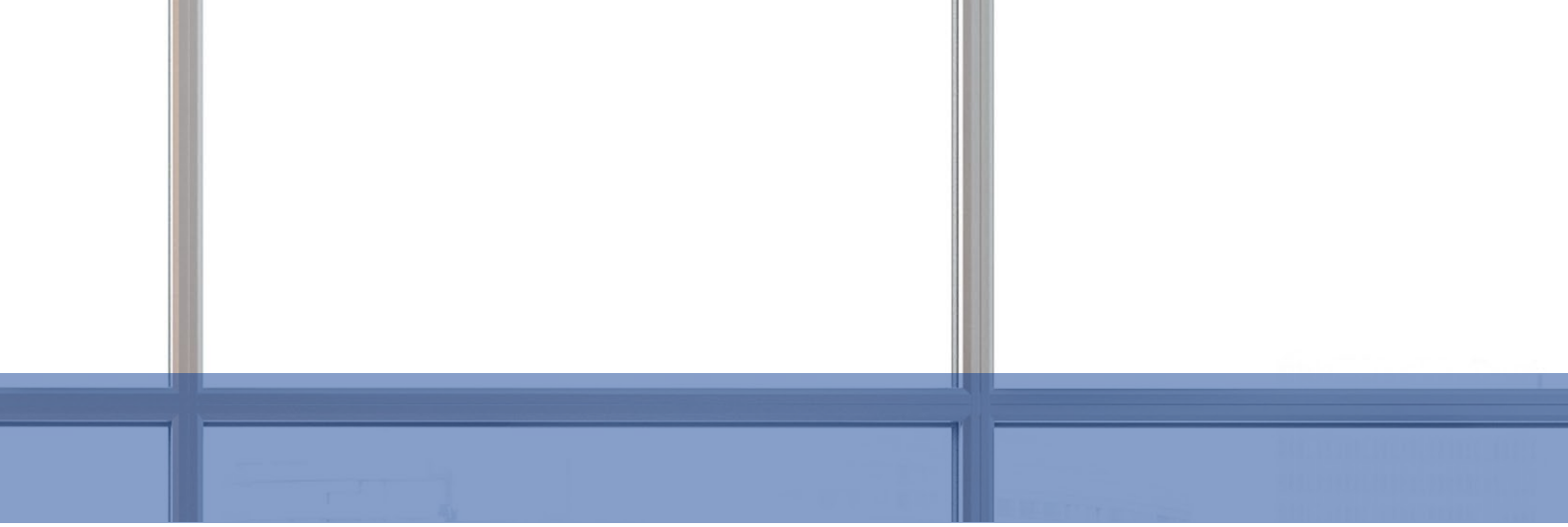
Air flow:
up to 200 m³/h

Heat recovery efficiency:
up to 85 %

Noise level:
from 12 dBA

Heat exchanger
with an enthalpy membrane

Wi Fi READY



Efficient solution for supply and exhaust ventilation of enclosed spaces

EC fans with low energy consumption

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Upgradeable with an exhaust duct to provide air extraction from the bathroom

Supply air cleaning is provided by the G4 and F7 filters

Controlled by Android or iOS smartphone or tablet over Wi-Fi

Parameters	Freshbox 200 ERV WiFi				
Speed	I	II	III	IV	V
Voltage [V / 50 (60) Hz]	1~230				
Max. power without heater(s) [W]	10	15	25	44	134
Preheater power consumption [W]	—				
Reheater power consumption [W]	—				
Max. current consumption with heater(s) [A]	1.0				
Maximum air flow [m³/h (l/s)]	30 (8)	60 (17)	90 (25)	120 (33)	200 (56)
RPM [min^{-1}]	2000				
Sound pressure level at 3 m [dBA]	12	22	30	36	45
Transported air temperature [°C]	-15...+40				
Casing material	polymer coated steel				
Insulation thickness [mm]	30				
Extract filter	G4				
Supply filter	G4 + F7 (option: H13)				
Connected air duct diameter [mm]	100				
Weight [kg]	55				
Heat recovery efficiency [%]*	85	81	75	68	66
Heat exchanger type	counter-flow				
Heat exchanger material	enthalpic membrane				
SEC class	A				

*Heat recovery efficiency is specified in compliance with EN 13141-8.

Hybrid Max ERV

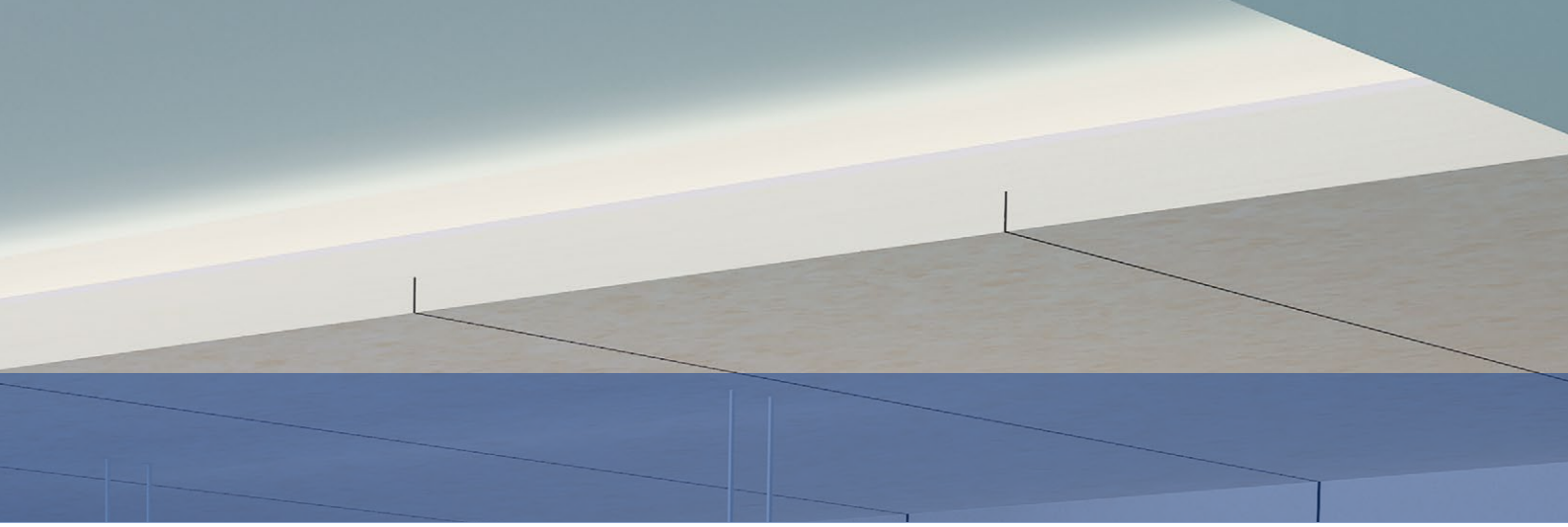
Air flow:
up to 160 m^3/h

Heat recovery efficiency:
up to 95 %

Noise level:
from 16 dBA

Heat exchanger
with an enthalpy membrane

WiFi READY



Efficient decentralized ventilation unit for small offices or conference rooms

Visible ceiling suspended installation

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Possibility to connect fresh air inlet and exhaust air ducts at top or back side of the unit

A version with an electrical preheater is available for cold climate

Clean air due to the use of an ePM1 70% / F7 filter for supply air filtration

Parameters	Hybrid Max ERV		
Voltage [V / 50/60 Hz]	1~230		
Max. unit power without electric heater [W]	58		
Max. unit current without electric heater [A]	0.5		
Max air flow [m³/h]	160		
RPM [min⁻¹]	2800		
Speed [m³/h]	60	90	160
Sound pressure level LpA to environment at 1 m [dBA]	25	35	42
Sound pressure level LpA to environment at 3 m [dBA]	16	26	32
Operating temperature [°C]	–25...+40		
Casing material	aluzinc		
Insulation [mm]	20		
Extract filter	Coarse 90% / G4		
Supply filter	ePM1 70% / F7 (G4 option)		
Connected air duct diameter [mm]	125		
Weight [kg]	47		
Heat recovery efficiency [%]	74–89		
Humidity recovery efficiency [%]	47–60		
Heat exchanger type	counter-flow		
Heat exchanger material	enthalpic membrane		
SEC class	A		

Civic EC LB 300-E V.2

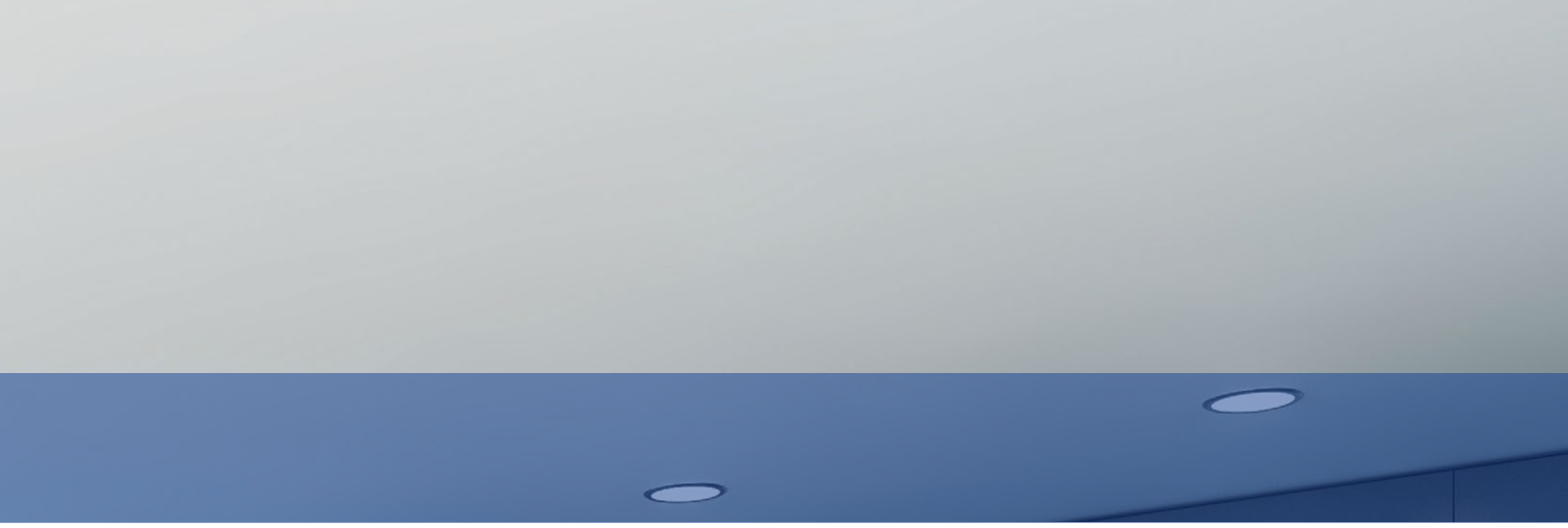
Air flow:
up to 1240 m³/h

Heat recovery efficiency:
up to 96 %

Noise level:
from 21 dBA

Heat exchanger
with an enthalpy membrane

WiFi READY



Floor-mounted efficient supply and exhaust ventilation of individual spaces

Low-energy EC motors

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Supply and extract air purification by means of in-built filters

Modifications with an electric preheater or reheater available for cold climate applications

Wi Fi ready & BMS connection

Parameters	Civic EC LB 300-E S21 / Civic EC LB 300-E S14
Voltage [V / 50 (60) Hz]	1~230
Power consumption without heater(s) [W]	125
Preheater power consumption [W]	–
Reheater power consumption [W]	–
Max. current consumption without heater(s) [A]	0.9
Max. current consumption with heater(s) [A]	0.9
Maximum air flow [m³/h (l/s)]	320 (89)
RPM [min^{-1}]	2150
Sound pressure level at 1 m [dBA]	31
Sound pressure level at 3 m [dBA]	21
Transported air temperature [°C]	–25...+40
Casing material	polymer coated steel
Insulation	40 mm, mineral wool
Extract filter	G4 x 2
Supply filter	G4 + F8 (option: F8 C + H11)
Connected air duct diameter [mm]	200
Weight [kg]	136 ± 3 %
Heat exchanger type	counter-flow
Heat exchanger material	enthalpic membrane
Heat recovery efficiency* [%]	73...89
SEC class	A

*Heat recovery efficiency is specified in compliance with EN 13141-8.

Civic EC DB 300-E V.2
Civic EC DB 500-E V.2

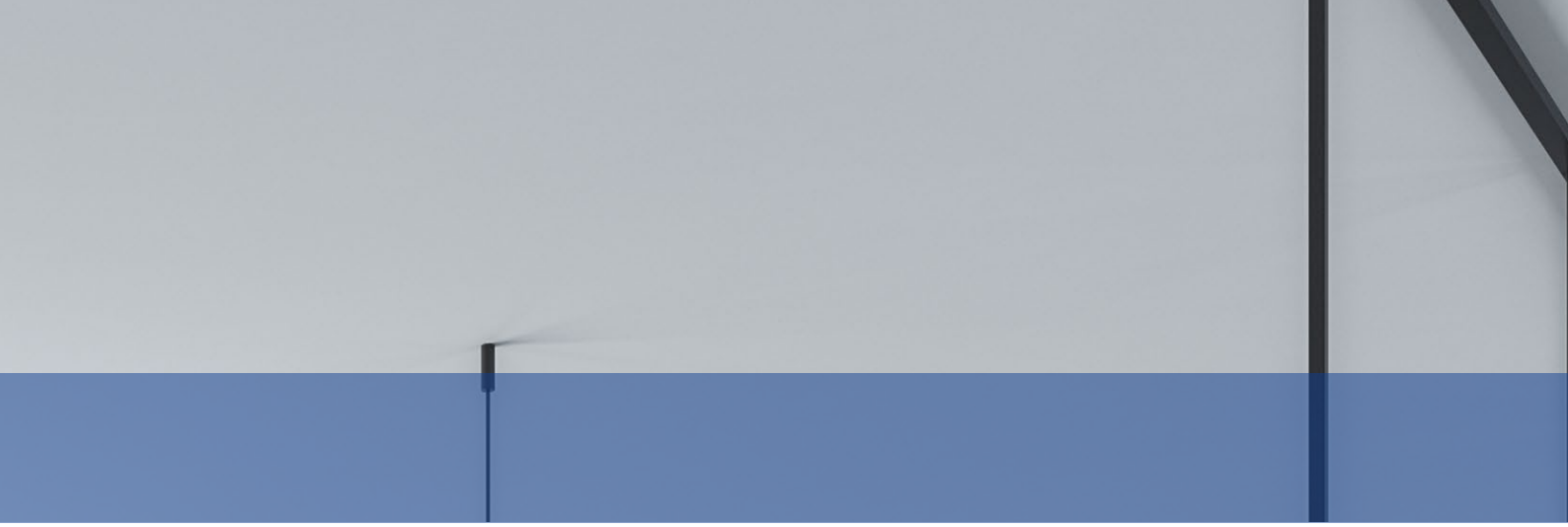
Air flow:
up to 1000 m³/h

Heat recovery efficiency:
up to 94 %

Noise level:
from 23 dBA

Heat exchanger
with an enthalpy membrane

WiFi READY



Suspension-mounted efficient supply and exhaust ventilation of individual spaces

Low-energy EC motors

Heat exchanger with an enthalpy membrane for humid and hot climate conditions

Supply and extract air purification by means of in-built filters

Modifications with an electric preheater or reheater available for cold climate applications

Wi Fi ready & BMS connection

Parameters	Civic EC DB 300-E V.2	Civic EC DB 500-E V.2
Voltage [V / 50 (60) Hz]	1~ 230	1~ 230
Power consumption without heater(s) [W]	125	170
Preheater power consumption [W]	–	–
Reheater power consumption [W]	–	–
Max. current consumption without heater(s) [A]	1.3	1.7
Max. current consumption with heater(s) [A]	1.3	1.7
Maximum air flow [m³/h (l/s)]	300 (83)	510 (142)
RPM [min^{-1}]	2150	1700
Sound pressure level at 1 m [dBA]	33	34
Sound pressure level at 3 m [dBA]	23	24
Max. transported air temperature [°C]	–25 ... +40	–25 ... +40
Casing material	polymer coated steel	polymer coated steel
Insulation	25 mm, cellular synthetic rubber	25 mm, cellular synthetic rubber
Extract filter	G4	G4
Supply filter	G4, F8 (option F8 C + H11)	G4, F8 (option F8 C + H11)
Connected air duct diameter [mm]	200	250
Weight [kg]	78	126
Heat exchanger type	counter–flow	counter–flow
Heat exchanger material	enthalpy membrane	enthalpy membrane
Heat recovery efficiency* [%]	76...88	74...86
SEC class	A	A

*Heat recovery efficiency is specified in compliance with EN 13141-8.

Vento Expert A30 W V.2

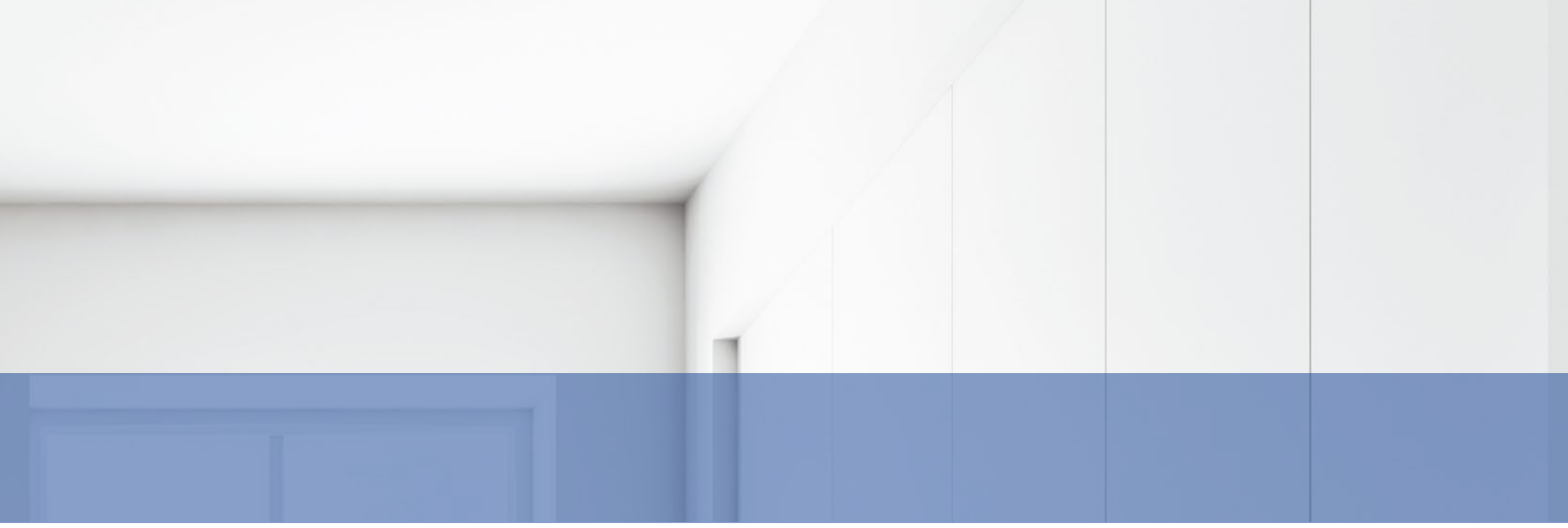
Air flow:
up to 30 m³/h

Heat recovery efficiency:
up to 81 %

Power:
from 1.8 W

Noise level:
from 21 dBA

Wi Fi READY



Arrangement of efficient energy-saving supply and exhaust single-room ventilation in flats, houses, cottages, social and commercial premises

Wi-Fi communication between several single-room ventilation units for coordinated operation

Reducing heat losses in winter and cool losses in summer caused by ventilation due to heat recovery

Suitable for thin walls

Humidity balance and regulated air exchange create individually controlled microclimate

Controlled by Android or iOS smartphone or tablet

Parameters	Vento Expert A30 S10 W V.2		
Speed	I	II	III
Voltage [V / 50 (60) Hz]	100–240		
Power [W]	1.80	3.00	4.40
Current [A]	0.027	0.037	0.051
RPM [min^{-1}]	1600	2200	2500
Air flow in ventilation mode [m^3/h (l/s)]	10 (3)	20 (6)	30 (8)
Air flow in heat recovery mode [m^3/h (l/s)]	5 (1)	10 (3)	15 (4)
SFP [W/l/s]	1.30	1.08	1.06
Filter	G3		
Transported air temperature [°C]	-15...+40		
Sound pressure level at 1 m [dBA]	30	37	40
Sound pressure level at 3 m [dBA]	21	28	31
Outdoor sound pressure attenuation [dBA] in accordance with DIN EN 20140	42		
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 81		
Ingress protection rating	IP24		

Vento Expert A50-1 C1 V.3
Vento Expert A50-1 C1 W V.3

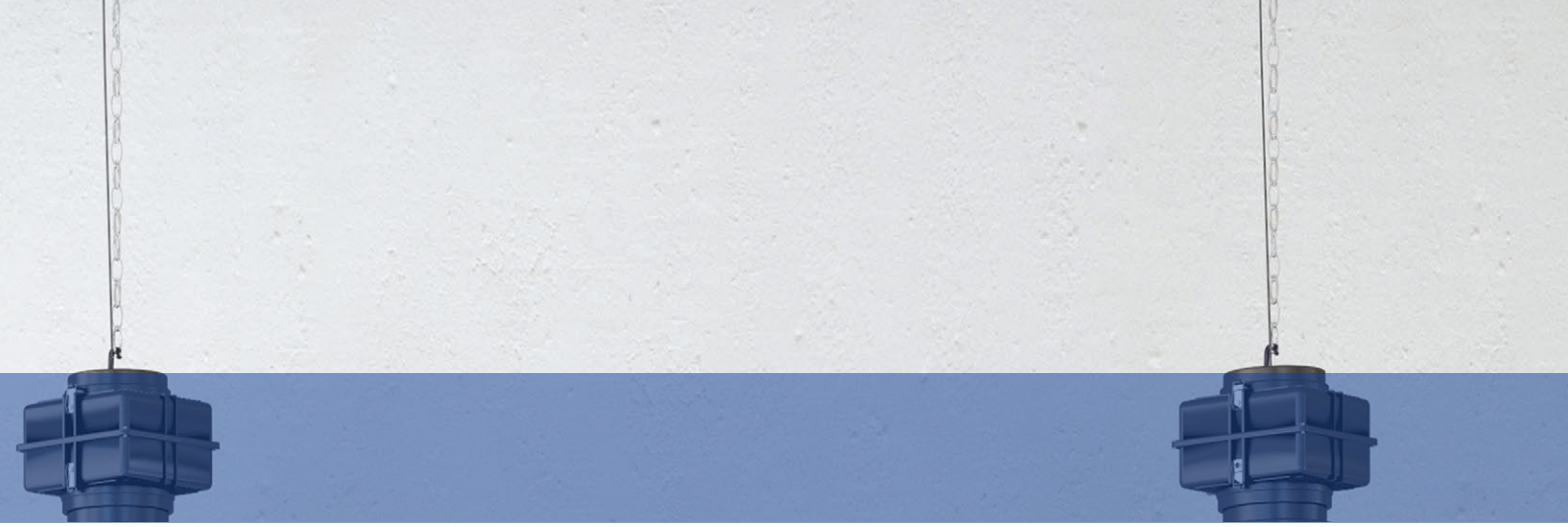
Air flow:
up to 50 m³/h

Heat recovery efficiency:
up to 95 %

Power:
from 5.0 W

Noise level:
from 4 dBA

WiFi READY



Automatic drafts shutoff when the ventilator is off due to the hermetic damper

Wireless connection of all units to a single Wi-Fi network, without routing the cables

Connection of an external relay CO_2 sensor or other external relay sensors

Suitable for thin walls

Humidity balance and regulated air exchange create individually controlled microclimate

Controlled by Android or iOS smartphone or tablet

Parameters	Vento Expert A50-1 C1 V.3 Vento Expert A50-1 C1 W V.3		
Speed	I	II	III
Voltage [V / 50 (60) Hz]	100–240		
Power [W]	5.0	6.0	8.5
Current [A]	0.035	0.040	0.059
RPM [min^{-1}]	800	1300	1900
Air flow in ventilation mode [m³/h (l/s)]	15 (4)	30 (8)	50 (14)
Air flow in energy recovery mode [m³/h (l/s)]	8 (2)	15 (4)	25 (7)
SFP [W/l/s]	2.40	1.23	1.22
Filter	G3 (option: G4; F7 PM2.5 > 70 %*)		
Transported air temperature [°C]	-20...+40		
Sound pressure level at 1 m in accordance with ISO 3741:2004 [dBA]	13	25	37
Sound pressure level at 3 m in accordance with ISO 3741:2004 [dBA]	4	16	28
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	41/47**		
Classification of air flow sensitivity to pressure difference variations in accordance with EN 13141-8	S3***		
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 95		
Ingress protection rating	IP24		

* maximum air flow 40 m³/h
** with open and closed front panel
*** manual setting of 100 % speed in a mobile application

Vento Expert A85-1 C1 V.2
Vento Expert A85-1 C1 W V.2

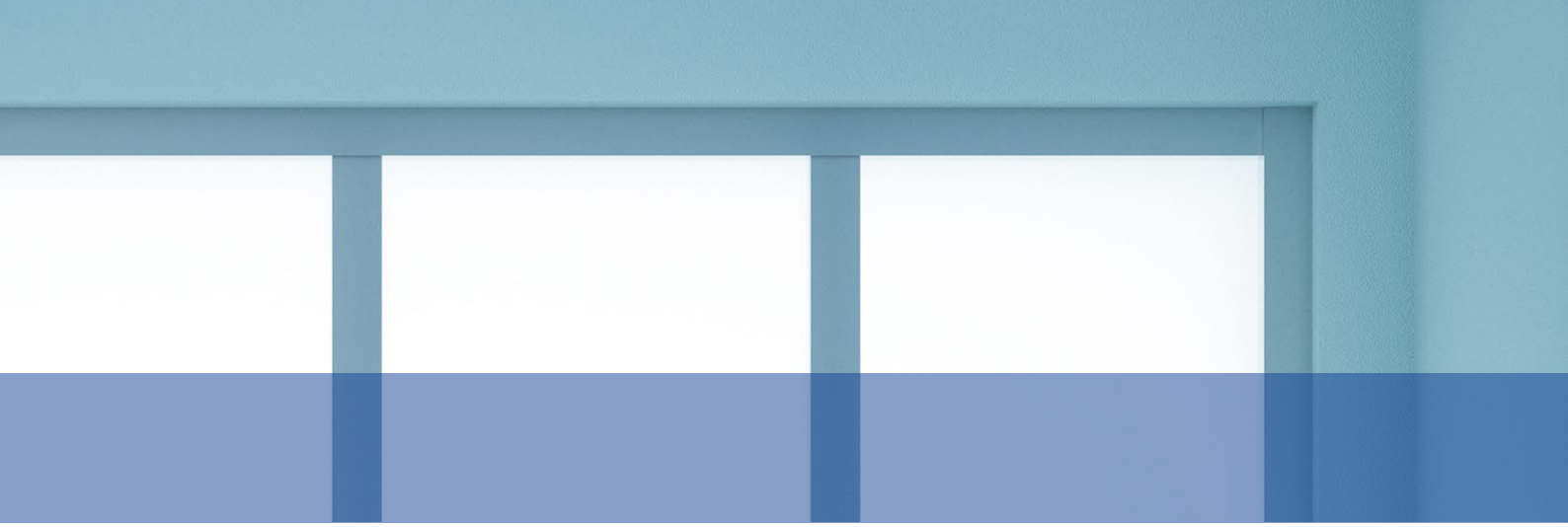
Air flow:
up to 65 m³/h

Heat recovery efficiency:
up to 95 %

Power:
from 3.78 W

Noise level:
from 4 dBA

WiFi READY



Automatic drafts shutoff when the ventilator is off due to the hermetic damper

Wireless connection of all units to a single Wi-Fi network, without routing the cables

Connection of an external relay CO_2 sensor or other external relay sensors

Suitable for thin walls

Humidity balance and regulated air exchange create individually controlled microclimate

Controlled by Android or iOS smartphone or tablet

Parameters	Vento Expert A85-1 C1 V.2 / Vento Expert A85-1 C1 W V.2			
Speed	I	II	III	MAX
Voltage [V / 50 (60) Hz]	100–240			
Power [W]	3.78	4.71	6.85	10.55
Current [A]	0.048	0.056	0.075	0.106
RPM [min^{-1}]	1050	1600	2270	2930
Air flow in ventilation mode [m³/h]	15	30	50	65
Air flow in heat recovery mode [m³/h]	8	15	25	33
SFP [W/l/s]	1.81	1.13	0.99	1.17
Filter	G3 (option: F7 PM2.5> 70%)			
Transported air temperature [°C]	-15 +40			
Sound pressure level at 1 m [dBA]	26	36	45	50
Sound pressure level at 3 m [dBA]	16	27	36	40
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	42			
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	up to 95			
Ingress protection rating	IP 24			

Vento Eco A50-4 PRO

Air flow:
up to 50 m³/h

Heat recovery efficiency:
up to 92 %

Power:
from 1.00 W

Noise level:
from 12 dBA

Manual hermetic damper shutoff when the unit is switched off to be 100 % sure there will be no drafts

Protection from outdoor noise

Reducing heat losses in winter and cool losses in summer caused by ventilation due to heat recovery

Suitable for thin walls

Humidity balance and regulated air exchange create individually controlled microclimate

Control of the unit operation mode is performed by means of the sensor control panel

Parameters	Vento Eco A50-4 PRO		
Speed	I	II	III
Voltage [V / 50 (60) Hz]	100–240		
Power [W]	1.00	2.10	4.30
Current [A]	0.017	0.025	0.041
RPM [min^{-1}]	915	1555	2330
Air flow in ventilation mode [m³/h (l/s)]	15 (4)	30 (8)	50 (14)
Air flow in heat recovery mode [m³/h (l/s)]	8 (2)	15 (4)	25 (7)
SFP [W/l/s]	0.48	0.50	0.62
Filter	G3 (option: F7 PM2.5 > 70 %*)		
Transported air temperature [°C]	-20 (-30**)...+40		
Heat recovery efficiency according to DIBt LÜ-A 20 [%]	up to 92		
Outdoor sound pressure attenuation according to DIN EN 20140 [dBA]	41		
Classification of air flow sensitivity to pressure difference variations in accordance with EN 13141-8	S3***		
Indoor/outdoor airtightness classification of the complete unit in accordance with EN 13141-8	D1		
Sound pressure level at 1 m according to ISO 3741: 2004 [dBA]	21	27	29
Sound pressure level at 3 m according to ISO 3741: 2004 [dBA]	12	18	20
Ingress protection rating	IP24		

* maximum air flow 40 m³/h
** with ZL1 Vento 160/100 cartridge and AH-8 outer hood applied
*** at speed III

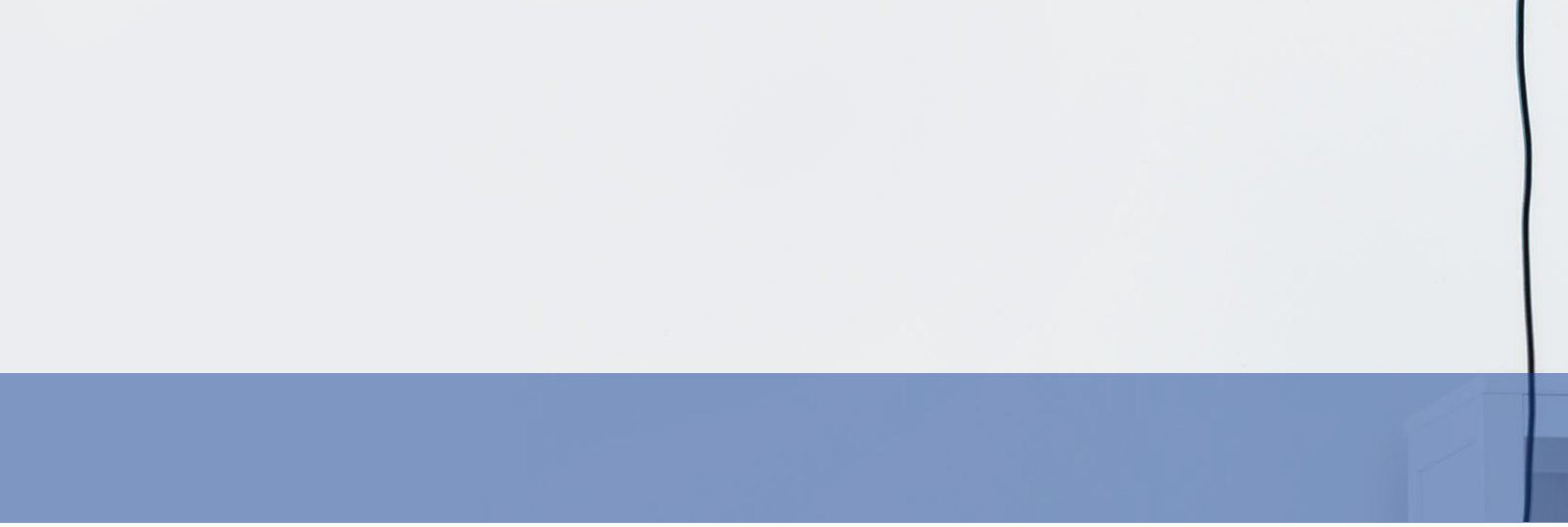
Solo A35/50/60 S4 PRO R V.2

Air flow:
up to 60 m³/h

Heat recovery efficiency:
up to 85 %

Power:
from 1.50 W

Noise level:
from 21 dBA



- Remove stale extract air from the premise and clean the air of dust and insects
- Low energy demand
- Reduce the air conditioning costs in summer and heating costs in winter
- Protect against outdoor noise
- Ensuring the balance of humidity in the room thanks to the built-in humidity sensor
- Control via remote control

Parameters	Solo A35 S4 Pro R V.2		Solo A50 S4 Pro R V.2		Solo A60 S4 Pro R V.2	
Speed	I	II	I	II	I	II
Voltage [V / 50 (60) Hz]	220–240					
Power [W]	1.50	2.30	0.70	2.30	1.10	3.20
Current [A]	0.046	0.047	0.020	0.034	0.021	0.042
Air flow in ventilation mode [m³/h (l/s)]	30 (8)	46 (13)	25 (7)	50 (14)	35 (10)	60 (17)
SFP [W/l/s]	0.36	0.36	0.20	0.33	0.23	0.38
Sound pressure level at 3 m [dBA]	21	26	16	29	27	29
Transported air temperature [°C]	-15...+40					
Energy recovery efficiency in accordance with DIBt LÜ-A 20 [%]	up to 85					
SEC class	A					
Ingress protection rating	IP24					

blaubergventilatoren.de

Blauberg Ventilatoren GmbH
Aidenbachstr. 52
D-81379 Munich

info@blaubergventilatoren.de

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