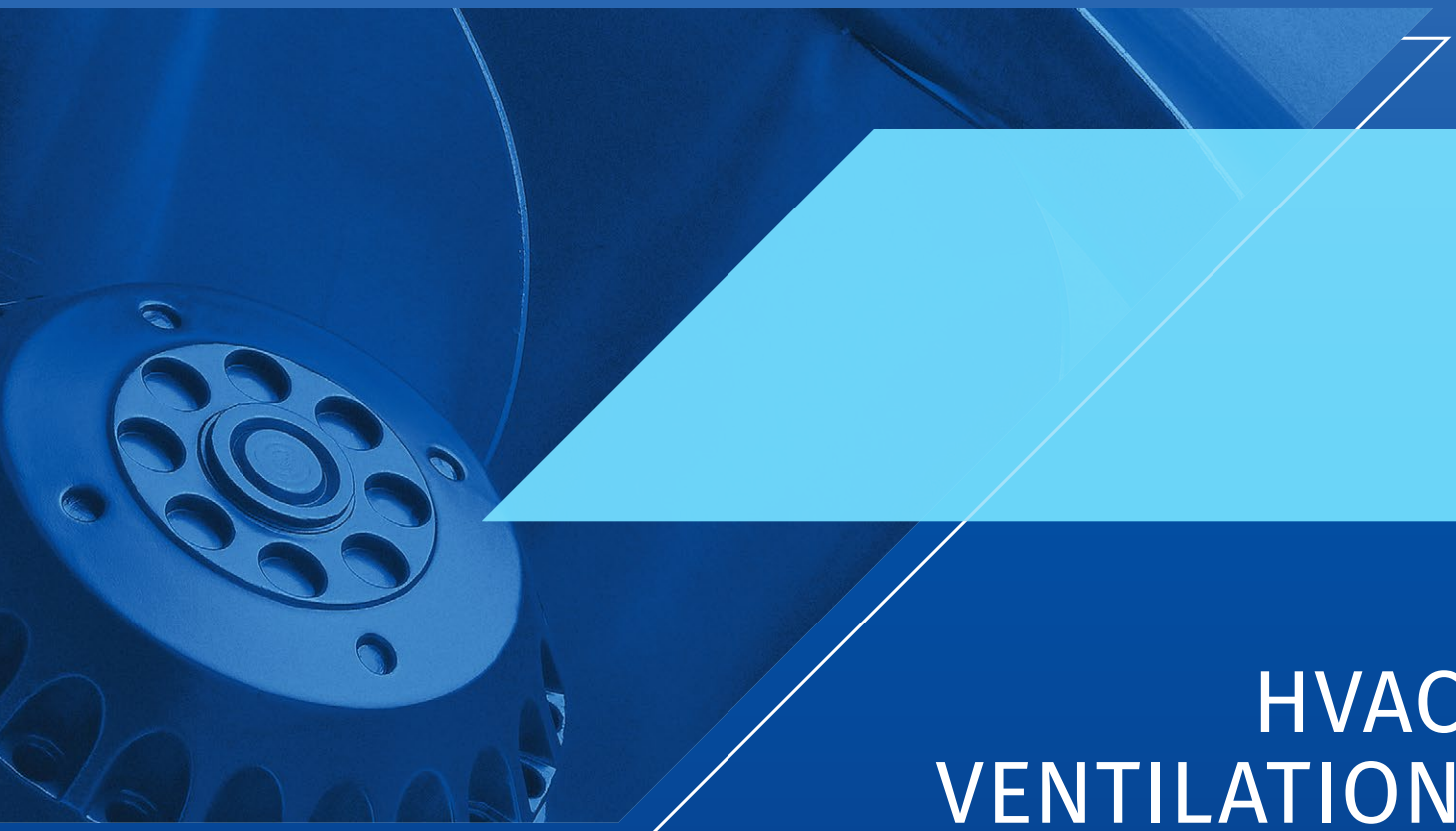
BLAUBERG Ventilation



HVAC VENTILATION

CATALOGUE 2023

BLAUBERG Ventilation

PART OF BLAUBERG GROUP

Blauberg Ventilation offers a wide scope of ventilation equipment which combines innovative technology, contemporary design and German quality.

The Company offers a wide range of domestic fans, ventilation units with heat recovery, industrial fans, and various accessories for creating ventilation systems.


Domestic ventilation


Single-room ventilation with heat recovery


Air handling units with heat recovery


Modular air handling units


Industrial ventilation


Heaters and coolers


Electrical accessories for fans


Air ducts and air distribution elements


Mounting elements for ventilation systems

Our philosophy is to cultivate long-term client relations based on trust and reliability. We are always open to cooperation in the field of ventilation equipment production.

BLAUBERG
GROUP

Blauberg Ventilation is a part of the international group of companies **Blauberg Group**.

The Group headquarters as well as the **R&D center** and **the quality control laboratory** are located in **Munich, Germany**.

The Group is represented by a great number of offices and companies all over the world, ensuring timely **supply and servicing**.

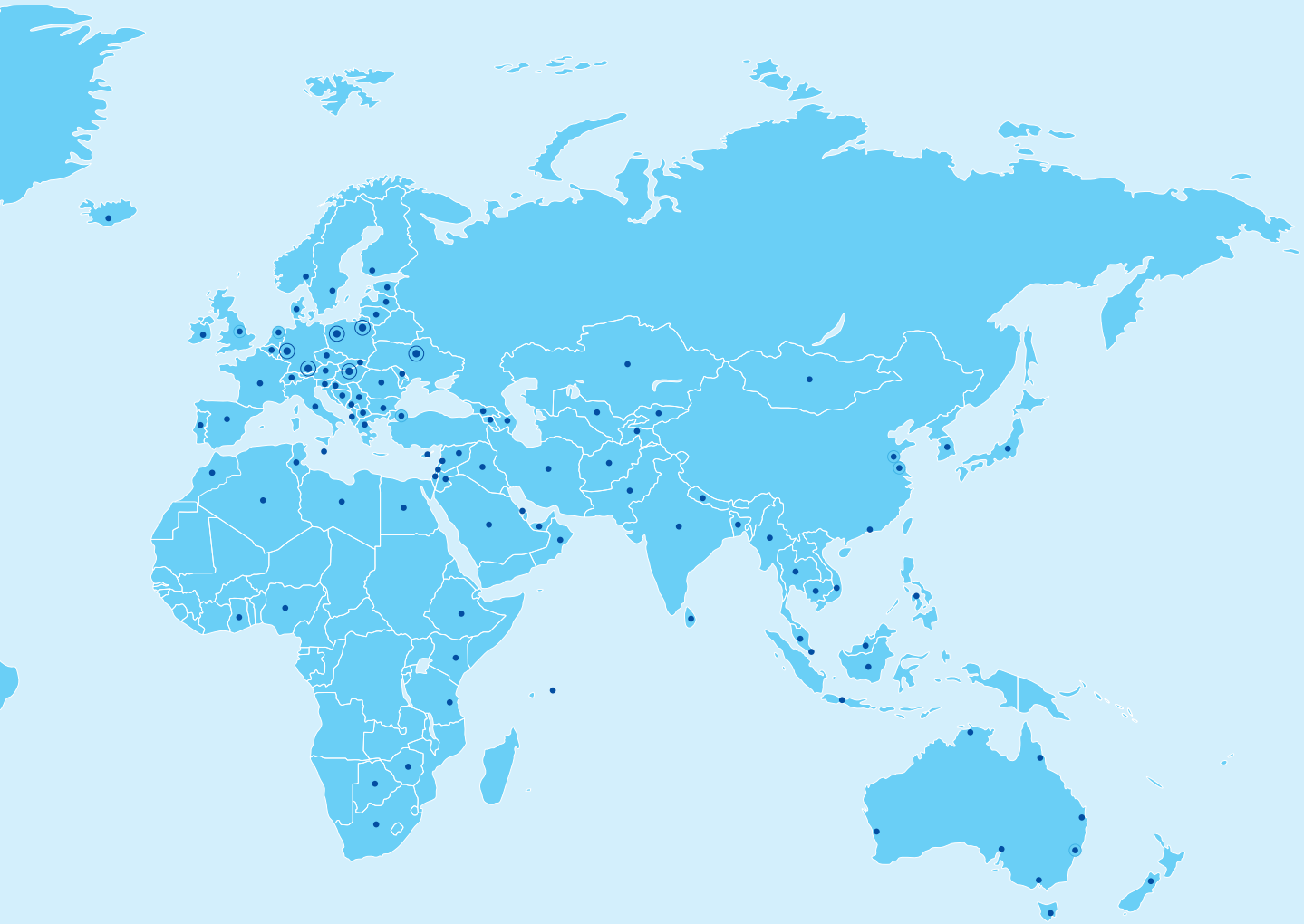
Production Sites

- Germany
- Ukraine
- Poland
- China
- Hungary

5
R&D CENTERS IN THE WORLD

8
FACTORIES IN THE WORLD

14
REPRESENTATIVE OFFICES IN 15 COUNTRIES



100+
OVER 100 MILLION
FANS MADE BY US

123
COUNTRIES WHERE YOU
CAN BUY OUR PRODUCTS

3500
EMPLOYEES
WORLDWIDE

Blauberg Group develops ventilation technology which complies with European and international standards and requirements specific to efficiency, reliability and safety.

Continuous improvement of the entire process flow, stringent product quality assurance at each production step, active implementation of innovative technology and consistent improvement of consumer appeal of the products were the key elements of the group's strategy of earning international recognition and making the Blauberg Group brands stand for uncompromising quality.

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Single-room units with heat recovery

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Ducting

Turbo

Inline mixed flow fans

Use

- Supply and extraction ventilation of offices, bathrooms, toilets, laundries, kitchens, ensuites in apartments, hotels, homes and commercial buildings.
- Ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 100 up to 315 mm round air ducts.

Air flow:
up to 1750 m³/h
486 l/s

Power:
from 21 W

Noise level:
from 33 dBA

Design

- The casing is made of low flammable polypropylene.
- Ventilation unit with terminal box. Can be turned to any position.
- Special design of the casing permits easy dismantling of the impeller and motor block for fan servicing without dismantling the air duct.

Motor

- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours, are 2 speed with an exterior two speed switch.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.
- 100 mm & 125 mm fans cannot be speed controlled.

Wiring

- Comes with a 1.2 m lead, 2 pin plug and external two speed switching.
- Timer fans come with a 1.2 m lead, 4 pin plug and external two speed switching.

Mounting

- Due to the compact design the fan is the ideal solution for mounting in limited spaces, including space behind a false ceiling.
- The fan can be installed in any section of the ventilation system from intake to the end of the ductworks.
- Wall or ceiling mounting with a mounting plate.

Accessories

Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Modifications

- **T:** turn-off delay timer adjustable from 2 to 30 minutes.
- **G**: speed controller, temperature controller with external temperature sensor (cable length 4 m), power cable with Australian plug.

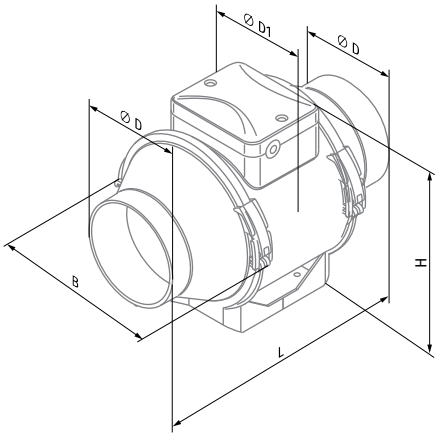
Designation key		
Series	**Duct diameter [mm]**	**Modifications**
Turbo	**100; 125; 150; 200; 250; 315**	**T:** turn-off delay timer adjustable from 2 to 30 minutes **G:** speed controller, temperature controller with external temperature sensor, power cable with Australian plug

Ordering Information

Part Number	Model	Description
BLATURBO100	Turbo 100	MIXFLO 100 mm 2 SPEED FAN
BLATURBO125	Turbo 125	MIXFLO 125 mm 2 SPEED FAN
BLATURBO150	Turbo 150	MIXFLO 150 mm 2 SPEED FAN
BLATURBO200	Turbo 200	MIXFLO 200 mm 2 SPEED FAN
BLATURBO250	Turbo 250	MIXFLO 250 mm 2 SPEED FAN
BLATURBO315	Turbo 315	MIXFLO 315 mm 2 SPEED FAN
BLATURBO150T	Turbo 150 T	MIXFLO 150 mm 2 SPEED FAN C/W RUN ON TIMER & 4 PIN PLUG
BLATURBO200T	Turbo 200 T	MIXFLO 200 mm 2 SPEED FAN C/W RUN ON TIMER & 4 PIN PLUG
BLATURBO150 G	Turbo 150 G	MIXFLO 150 mm C/W SPEED CONTROLLER, EXTERNAL TEMP SENSOR
BLATURBO200 G	Turbo 200 G	MIXFLO 200 mm C/W SPEED CONTROLLER, EXTERNAL TEMP SENSOR
BLATURBO250 G	Turbo 250 G	MIXFLO 250 mm C/W SPEED CONTROLLER, EXTERNAL TEMP SENSOR
BLATURBO350 G	Turbo 350 G	MIXFLO 315 mm C/W SPEED CONTROLLER, EXTERNAL TEMP SENSOR

Overall Dimensions [mm]

Model	∅ D	∅ D1	B	H	L	Weight [kg]
Turbo 100	96	164	167	190	246	1.45
Turbo 125	123	164	167	190	246	1.79
Turbo 150	148	187	220	251	289	3.18
Turbo 200	199	209	239	261	295.5	3.8
Turbo 250	247	257	287	323	383	7.83
Turbo 315	310	323	362	408	445	11.7

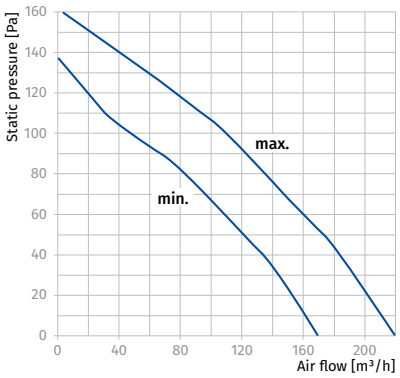


Technical Data

Parameters	Turbo 100		Turbo 125		Turbo 150	
Speed	min	max	min	max	min	max
Voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Power [W]	23	25	25	29	42	50
Current [A]	0.10	0.11	0.11	0.13	0.19	0.22
Maximum air flow [m³/h (l/s)]	170 (47)	220 (61)	230 (64)	345 (96)	430 (119)	560 (156)
RPM [min⁻¹]	1980	2545	1535	2265	1940	2620
Sound pressure level at 3 m [dBA]	27	32	29	34	32	44
Max. transported air temperature [°C]	+60		+60		+60	
SEC class	C		B		B	
IP rating	IPX4		IPX4		IPX4	
Motor IP rating	IPX4		IPX4		IPX4	
ErP	–		–		2018	

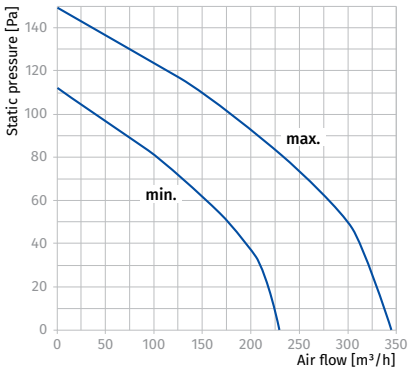
TURBO 100

Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
L_{WA} to inlet [dBA]	**54**	19	35	50	49	44	37	25	17	**33**	**43**
L_{WA} to outlet [dBA]	**53**	17	34	50	49	48	36	24	17	**32**	**42**
L_{WA} to environment [dBA]	**47**	14	29	43	43	39	33	22	15	**27**	**37**
Max speed											
L_{WA} to inlet [dBA]	**59**	24	34	53	54	53	48	37	26	**38**	**48**
L_{WA} to outlet [dBA]	**57**	23	33	52	52	52	47	37	26	**37**	**47**
L_{WA} to environment [dBA]	**52**	18	29	46	48	47	43	33	23	**32**	**42**



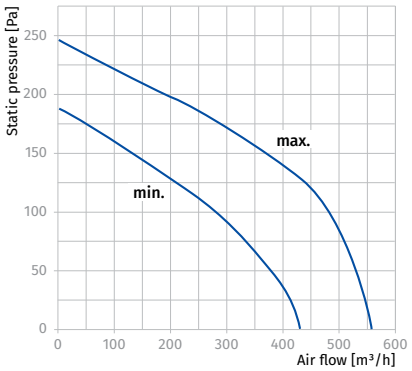
TURBO 125

Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
L_{WA} to inlet [dBA]	**54**	26	38	52	50	44	38	27	17	**34**	**44**
L_{WA} to outlet [dBA]	**54**	25	37	51	49	43	38	28	18	**33**	**43**
L_{WA} to environment [dBA]	**49**	21	32	46	45	40	35	25	16	**29**	**39**
Max speed											
L_{WA} to inlet [dBA]	**60**	20	31	57	51	51	50	39	27	**39**	**49**
L_{WA} to outlet [dBA]	**59**	20	31	56	51	51	49	39	26	**38**	**48**
L_{WA} to environment [dBA]	**54**	16	27	51	46	47	45	36	24	**34**	**44**



TURBO 150

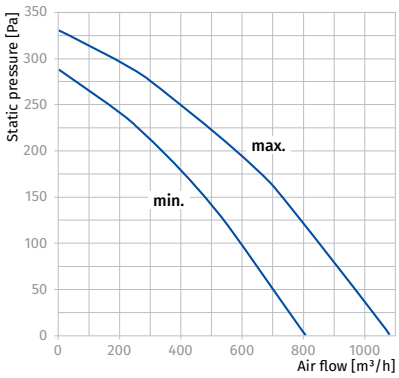
Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
L_{WA} to inlet [dBA]	**59**	31	45	54	52	54	48	35	29	**38**	**48**
L_{WA} to outlet [dBA]	**63**	37	49	56	56	60	48	39	30	**42**	**52**
L_{WA} to environment [dBA]	**52**	21	30	48	48	45	42	34	23	**32**	**42**
Max speed											
L_{WA} to inlet [dBA]	**69**	38	51	57	62	60	66	49	44	**48**	**58**
L_{WA} to outlet [dBA]	**72**	42	55	66	67	68	65	53	45	**52**	**62**
L_{WA} to environment [dBA]	**65**	23	37	56	59	57	61	47	35	**44**	**54**



Parameters	Turbo 200		Turbo 250		Turbo 315	
Speed	min	max	min	max	min	max
Voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60
Power [W]	76	108	125	177	227	315
Current [A]	0.34	0.48	0.54	0.79	0.99	1.42
Maximum air flow [m³/h (l/s)]	805 (224)	1080 (300)	1070 (297)	1360 (378)	1420 (394)	1750 (486)
RPM [min⁻¹]	1915	2380	1955	2440	2115	2505
Sound pressure level at 3 m [dBA]	39	45	44	51	41	52
Max. transported air temperature [°C]	+60		+60		+60	
SEC class	B		–		–	
IP rating	IPX4		IPX4		IPX4	
Motor IP rating	IPX4		IPX4		IPX4	
ErP	2018		2018		2018	

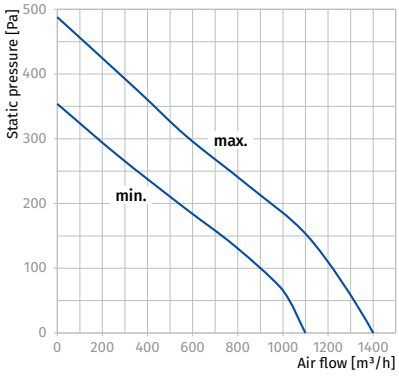
TURBO 200

Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
LwA to inlet [dBA]	**66**	38	50	58	59	60	59	55	45	**45**	**55**
LwA to outlet [dBA]	**64**	40	50	54	58	59	57	51	44	**43**	**53**
LwA to environment [dBA]	**60**	27	42	49	54	55	54	46	34	**39**	**49**
Max speed											
LwA to inlet [dBA]	**71**	41	50	63	64	65	64	62	52	**50**	**60**
LwA to outlet [dBA]	**70**	43	52	61	66	64	63	58	51	**50**	**60**
LwA to environment [dBA]	**65**	34	43	54	60	60	60	53	41	**45**	**55**



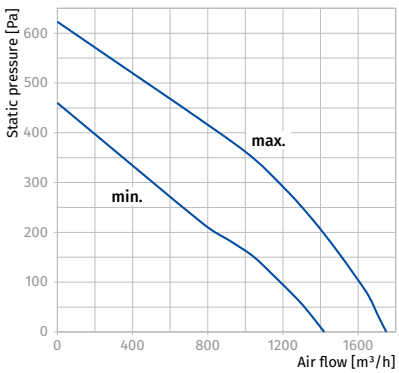
TURBO 250

Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
LwA to inlet [dBA]	**72**	48	57	63	66	69	64	54	45	52	62
LwA to outlet [dBA]	**75**	48	56	64	70	71	66	56	45	54	64
LwA to environment [dBA]	**65**	32	51	57	61	59	56	45	32	44	54
Max speed											
LwA to inlet [dBA]	**78**	52	62	66	71	75	72	62	52	58	68
LwA to outlet [dBA]	**81**	52	60	66	76	77	74	63	52	60	70
LwA to environment [dBA]	**72**	35	50	63	69	66	63	53	40	51	61



TURBO 315

Sound power level, A-weighted	Total	Octave frequency bands [Hz] 63	125	250	500	1000	2000	4000	8000	LpA 3 m	LpA 1 m
Min speed											
LwA to inlet [dBA]	**72**	43	54	62	67	66	67	58	47	**52**	**62**
LwA to outlet [dBA]	**70**	45	57	59	64	66	63	56	46	**50**	**60**
LwA to environment [dBA]	**62**	28	51	53	57	57	54	46	36	**41**	**51**
Max speed											
LwA to inlet [dBA]	**80**	50	59	68	73	77	74	70	59	**60**	**70**
LwA to outlet [dBA]	**78**	51	60	66	70	75	71	66	57	**58**	**68**
LwA to environment [dBA]	**72**	37	51	66	66	67	65	58	48	**52**	**62**



Turbo EC

Inline mixed flow fans with EC motor

Use

- Designed for supply and exhaust ventilation systems requiring high energy efficiency, excellent response, high pressure and air flow rate while keeping noise under control.
- Such supply and extraction ventilation of offices, bathrooms, toilets, laundries, kitchens, ensuites in apartments, hotels, homes, industrial and commercial buildings.
- Compatible with air ducts from 150 to 315 mm in diameter.

Air flow:
up to 1995 m³/h
554 l/s

Power:
from 65 W

Noise level:
from 23 dBA

Design

- Turbo EC fans combine the versatility and outstanding performance of both axial and centrifugal fans, producing a powerful air flow and high pressure while retaining the signature energy efficiency and response of EC motors.
- The casing of Turbo EC fan is made of low combustible polypropylene. The removable central unit with a motor, impeller and terminal box is attached to the fittings by means of special mounting brackets with integral latches. This helps to make the fan maintenance extremely simple and convenient. The fan service no longer requires major disassembly and dismantling of the fan. All you have to do is remove the main unit from the casing and carry out the maintenance as required.
- The inlet fitting has a profiled header which ensures smooth air flow into the fan. Conically shaped impelles with specially profiled blades cause circular velosity rise, that results in air flow boost and pressure increase comparing to conventional design.
- The fan outlet combination of a diffuser, specially designed impeller and rectifier, allow for the optimim air distribution, high air capacity and pressure without excessive noise.

Motor

- High efficient direct current EC motor.
- EC technology meets the up to date requirements to energy saving and controllable ventilation and provides up to 35 % energy saving as compared to asynchronous motors.
- EC motors ensure totally controllable speed range for the fan and has integrated overheating protection with automatic restart.
- EC motors have no friction and wearing parts as capacitor und brushes. Instead a maintenance free EC controller electronic circuit board is used.
- The impeller is dynamically balanced.
- The fan is compatible with 50 Hz and 60 Hz power mains and the maximum speed does not depend on power mains frequency.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours, are 2 speed with an exterior two speed switch.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Wiring

- Comes with a 1.2 m lead, 2 pin plug.

Speed Control

- The fan speed is controlled with a integrated 0–10 V control signal from the following sources:
  - integrated or external speed controller
  - controller with sensors
  - central BMS system.
- The control signal value changes depending on air temperature, pressure, smoke concentration and other parameters.
- During signal value change the fan with EC motor correspondingly changes the rotations speed and delivers required air volume to the ventilation system.
- The computer central building management systems (BMS) enable integration of several EC motors in network and precise individual operation control for each fan.

Mounting

- The fans are intended for installation in matching diameter air ducts at any point of the ventilation system without limitation to mounting angle.
- The fan casing has a flat mounting plate for a secure wall mounting.
- Electrical connection and installation must be performed in accordance with the instruction manual and the electrical connections diagram applied to the terminal box.
- A single system may have several fans installed in parallel to boost the output capacity or in series to boost the working pressure.

Designation key

Series	Motor type	Duct diameter [mm]
Turbo	**EC:** electronically commutated motor	**150; 200; 250; 315**

Accessories

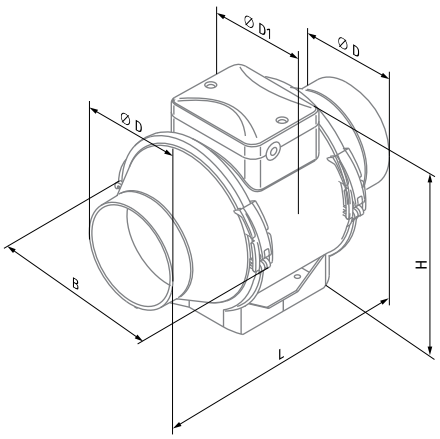
Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Ordering Information

Part Number	Model	Description
BLATURBOEC150	Turbo EC 150	MIXFLO 150 mm FAN EC MOTOR
BLATURBOEC200	Turbo EC 200	MIXFLO 200 mm FAN EC MOTOR
BLATURBOEC250	Turbo EC 250	MIXFLO 250 mm FAN EC MOTOR
BLATURBOEC315	Turbo EC 315	MIXFLO 315 mm FAN EC MOTOR

Overall Dimensions [mm]

Type	∅ D	∅ D1	B	H	L	Weight [kg]
Turbo EC 150	148	187	216.5	253.5	289	2.3
Turbo EC 200	198	209	239	277.5	295.5	3.95
Turbo EC 250	247	257	288	339	383	7.8
Turbo EC 315	308.5	323	360	423	443	11.95

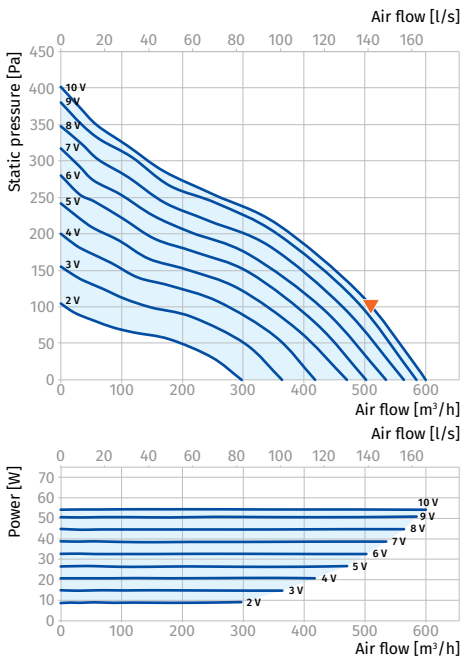


Technical Data

Parameters	Turbo EC 150	Turbo EC 200	Turbo EC 250	Turbo EC 315
Voltage [V / 50/60 Hz]	1~ 230	1~ 230	1~ 230	1~ 230
Power [W]	55	123	169	284
Current [A]	0.48	1.02	1.38	1.25
Max. airflow [m³/h (l/s)]	600 (167)	1040 (289)	1285 (357)	1970 (547)
RPM [min⁻¹]	3390	3390	2870	2826
Sound pressure level at 3m [dBA]	46	49	53	55
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55	-25...+55
Protection rating	IPX4	IPX4	IPX4	IPX4
SEC Class	B	-	-	-
Erp compliance	2018	2018	2018	2018

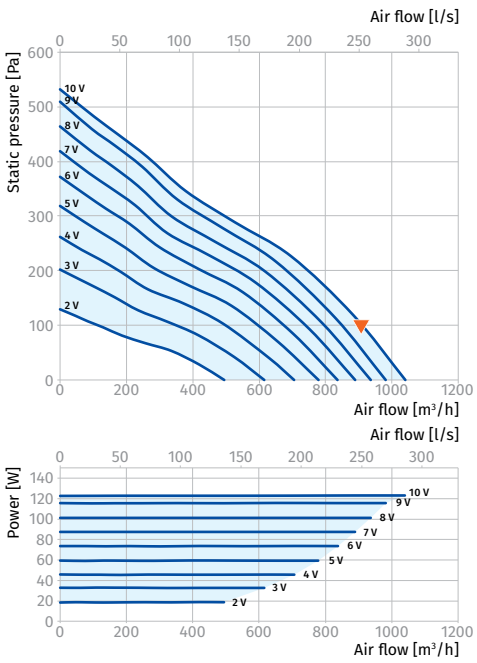
TURBO EC 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**70**	37	43	58	65	63	65	59	52	**50**	**60**
L_{WA} to outlet [dBA]	**68**	41	45	52	60	63	63	59	52	**47**	**57**
L_{WA} to environment [dBA]	**67**	32	44	59	63	59	58	51	43	**46**	**56**



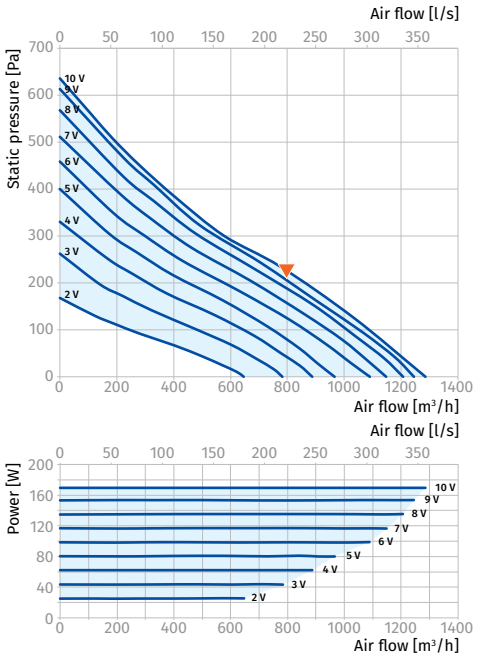
TURBO EC 200

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**76**	36	45	57	70	69	72	69	59	**56**	**65**
L_{WA} to outlet [dBA]	**76**	48	49	56	69	71	71	70	60	**56**	**65**
L_{WA} to environment [dBA]	**69**	35	42	54	64	65	65	58	43	**49**	**59**



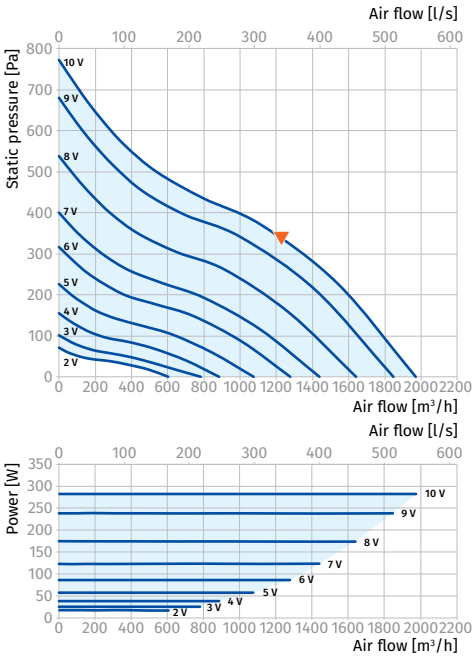
TURBO EC 250

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**81**	43	51	64	77	77	77	69	62	**61**	**71**
L_{WA} to outlet [dBA]	**81**	49	54	67	75	78	77	72	62	**61**	**71**
L_{WA} to environment [dBA]	**73**	53	49	56	66	71	68	55	43	**53**	**63**



TURBO EC 315

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**81**	42	54	64	74	78	75	70	63	**61**	**70**
L_{WA} to outlet [dBA]	**83**	43	54	72	77	78	78	73	66	**63**	**72**
L_{WA} to environment [dBA]	**75**	37	48	60	68	73	68	60	48	**55**	**65**



Primo

Inline mixed flow fans

Use

- Inline fans for supply and exhaust ventilation of various commercial and industrial premises requiring powerful air flow.
- The fans are compatible with ∅ 355 and 400 mm air ducts.
- New product combines wide capabilities and high performance features of axial and centrifugal fans, providing powerful air flow.

Air flow:
up to 3350 m³/h
931 l/s

Power:
from 126 W

Noise level:
from 47 dBA

Design

- The fan casing is made of polymer and reinforced with a metal housing. Due to the conically shaped polymer impeller with specially profiled blades, the air stream circular velocity increases, which results in higher air flow and pressure, as compared to characteristics of standard axial fans.
- The specially designed diffuser, impeller and airflow rectifier at the fan outlet provide smooth air flow distribution and enable the best combination of high capacity, powerful pressure and low noise. The fan casing is equipped with an airtight terminal box for connection to power mains.

Motor

- The fans are equipped with three-speed four-pole asynchronous motors.
- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours, are 3 speed with an exterior three speed switch.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Wiring

- Comes with a 1.2 m lead, 3 pin plug.

Speed Control

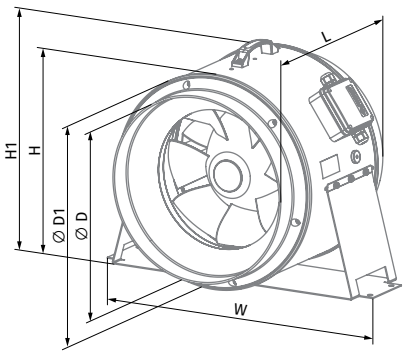
- Fitted with three speed switching, or can be controlled by a smooth thyristor controller connected to the maximum speed terminal.

Mounting

- The fans may be mounted at any place and at any angle within the ductwork system. Several fans may be installed in one system in parallel to attain higher air capacity or in series to increase operating pressure in the system. The fan casing is equipped with fixing brackets for suspended mounting (mounting bracket included).

Ordering Information

Part Number	Model	Description
BLAUPRIMO355	Primo 355	MIXFLO 355 mm 3 SPEED FAN
BLAUPRIMO400	Primo 400	MIXFLO 400 mm 3 SPEED FAN



Overall Dimensions [mm]

Model	∅ D	∅ D1	H	H1	L	W
Primo 355	355	406	408	439	372	566
Primo 400	400	451	453	484	415	623

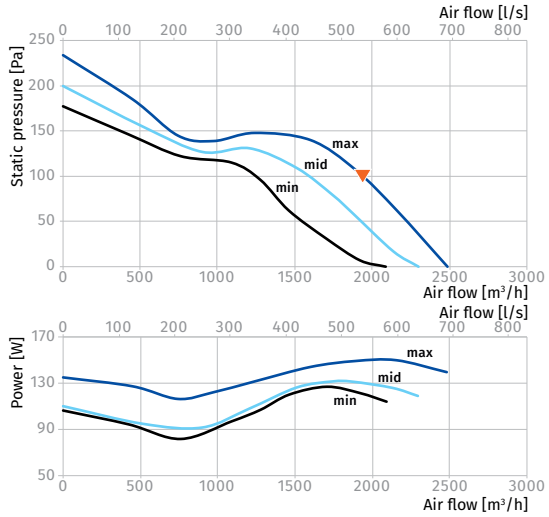
Designation key	
Series	Duct diameter [mm]
Primo	355; 400

Technical Data

Parameters	Primo 355			Primo 400		
Speed	min	mid	max	min	mid	max
Voltage [V / 50 Hz]		1~ 230			1~ 230	
Power [W]	126	131	150	197	204	224
Current [A]	0.60	0.58	0.66	0.91	0.90	0.98
Maximum air flow [m³/h (l/s)]	2090 (581)	2296 (638)	2485 (690)	2677 (744)	3136 (871)	3350 (931)
RPM [min⁻¹]	1350	1400	1470	1320	1390	1446
Sound pressure at 3 m [dBA]	38	38	43	40	42	43
Transported air temperature [°C]		-25...+55			-25...+55	
Protection rating		IPX4			IPX4	
Motor protection rating		IP20			IP20	
ErP compliance		2018			2018	

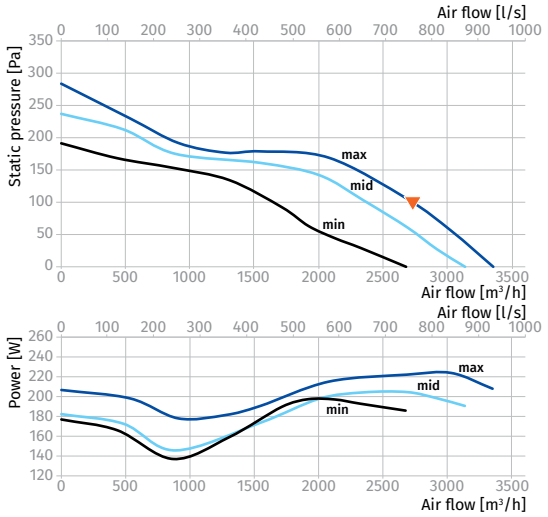
PRIMO 355 50 Hz

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	**69**	50	61	63	60	63	60	56	48	**49**	**59**
LWA to outlet [dBA]	**69**	56	61	63	61	65	59	54	48	**49**	**59**
LWA to environment [dBA]	**63**	42	49	61	53	57	50	46	35	**43**	**53**



PRIMO 400 50 Hz

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LWA to inlet [dBA]	**71**	57	62	66	65	64	61	55	47	**51**	**61**
LWA to outlet [dBA]	**73**	57	65	63	67	68	63	59	51	**52**	**62**
LWA to environment [dBA]	**64**	45	52	53	57	60	54	48	38	**43**	**53**



Primo EC

Inline mixed flow fans with EC motors

Use

- Inline fans for supply and exhaust ventilation of various commercial and industrial premises requiring powerful air flow.
- The fans are compatible with ∅ 355 and 400 mm air ducts.
- New product combines wide capabilities and high performance features of axial and centrifugal fans, providing powerful air flow.

Air flow:
up to 5700 m³/h
1583 l/s

Power:
from 346 W

Noise level:
from 33 dBA

Design

- The fan casing is made of polymer and reinforced with a metal housing. Due to the conically shaped polymer impeller with specially profiled blades, the air stream circular velocity increases, which results in higher air flow and pressure, as compared to characteristics of standard axial fans.
- The specially designed diffuser, impeller and airflow rectifier at the fan outlet provide smooth air flow distribution and enable the best combination of high capacity, powerful pressure and low noise. The fan casing is equipped with an airtight terminal box for connection to power mains.

Motor

- High efficient direct current EC motor.
- EC technology meets the up to date requirements to energy saving and controllable ventilation and provides up to 35 % energy saving as compared to asynchronous motors.
- EC motors ensure totally controllable speed range for the fan and has integrated overheating protection with automatic restart.
- EC motors have no friction and wearing parts as capacitor und brushes.
- Instead a maintenance free EC controller electronic circuit board is used.
- The impeller is dynamically balanced.
- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Speed Control

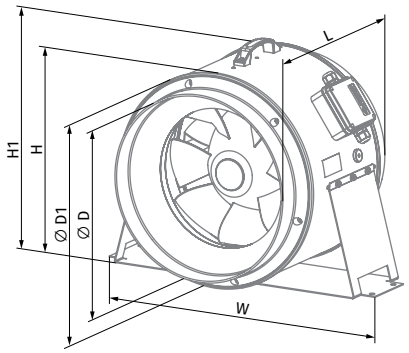
- The fan speed is controlled with a 0–10 V control signal from the following sources:
  - integrated or external speed controller
  - controller with sensors
  - central BMS system.
- The control signal value changes depending on air temperature, pressure, smoke concentration and other parameters.
- During signal value change the fan with EC motor correspondingly changes the rotations speed and delivers required air volume to the ventilation system.
- The computer central building management systems (BMS) enable integration of several EC motors in network and precise individual operation control for each fan.

Mounting

- The fans may be mounted at any place and at any angle within the ductwork system.
- Several fans may be installed in one system in parallel to attain higher air capacity or in series to increase operating pressure in the system.
- The fan casing is equipped with fixing brackets for suspended mounting (mounting bracket included).

Overall Dimensions [mm]

Model	∅ D	∅ D1	H	H1	L	W
Primo EC 355 (max)	355	406	408	439	372	566
Primo EC 400	400	451	453	484	415	623



Ordering Information

Part Number	Model	Description
BLAUPRIMOEC355	Primo EC 355	MIXFLO 355 mm FAN EC MOTOR
BLAUPRIMOEC400	Primo EC 400	MIXFLO 400 mm FAN EC MOTOR

Designation key

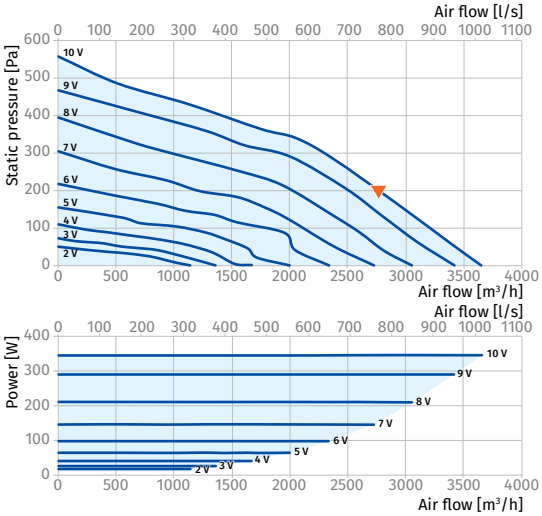
Series	Motor type	Duct diameter [mm]
Primo	**EC:** electronically commutated motor	**355; 400**

Technical Data

Parameters	Primo EC 355	Primo EC 355 max	Primo EC 400
Voltage [V / 50 Hz]	1~ 230	1~ 230	1~ 230
Power [W]	353	701	726
Current [A]	1.56	3.10	3.23
Maximum air flow [m³/h (l/s)]	3685 (1024)	4630 (1286)	5700 (1583)
RPM [min⁻¹]	2470	3175	2580
Sound pressure at 3 m [dBA]	55	60	60
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55
Protection rating	IPX4	IPX4	IPX4
Motor protection rating	IP44	IP44	IP44
Erp compliance	2018	2018	2018

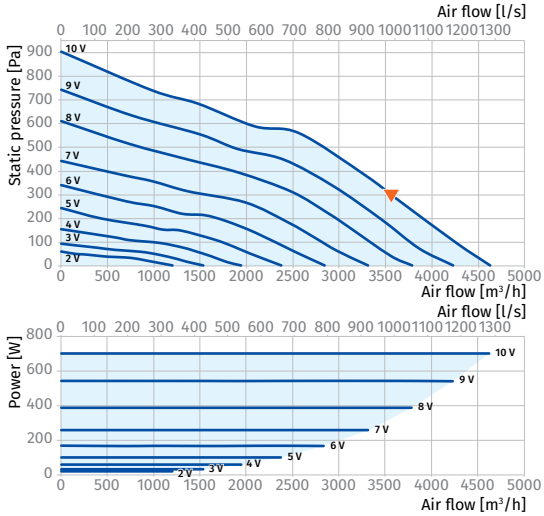
PRIMO EC 355

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**83**	73	76	75	75	78	74	69	61	**63**	**73**
L_{WA} to outlet [dBA]	**85**	70	79	75	77	81	76	71	64	**65**	**75**
L_{WA} to environment [dBA]	**76**	56	64	67	70	71	68	63	53	**55**	**65**



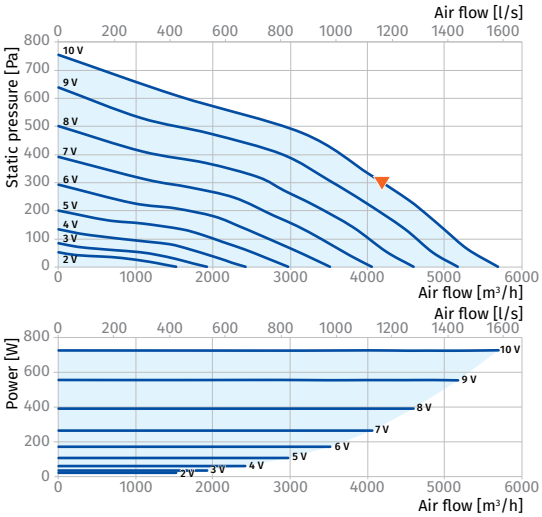
PRIMO EC 355 MAX

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**88**	74	82	79	79	83	80	75	66	**68**	**78**
L_{WA} to outlet [dBA]	**90**	72	83	79	81	86	82	77	70	**70**	**80**
L_{WA} to environment [dBA]	**80**	45	63	66	73	77	74	68	57	**60**	**70**



PRIMO EC 400

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**87**	70	77	78	81	81	79	74	67	**66**	**76**
L_{WA} to outlet [dBA]	**88**	62	76	78	83	84	80	75	66	**68**	**78**
L_{WA} to environment [dBA]	**80**	59	66	69	74	77	72	67	58	**60**	**70**



inWave

Sound-insulated inline mixed-flow fans

Use

- Supply and extract ventilation systems installed in various premises with high requirements to the noise level.
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 150 mm air ducts.

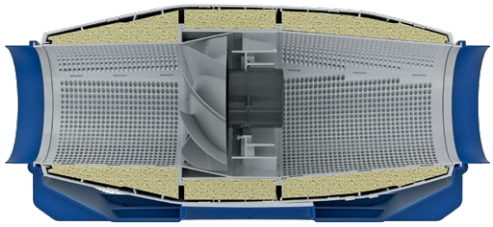
Air flow:
up to 540 m³/h
150 l/s

Power:
from 32 W

Noise level:
from 19 dBA

Design

- The casing is made of high-quality durable plastic, internally filled with 50 mm mineral wool thermal- and sound-insulating layer.
- Special inner perforation of the casing and sound-insulating material are designed for wide-frequency sound absorbing.
- Mixed-flow impeller made of high-quality plastic.
- The diffusor, the specially profiled impeller and directing vanes provide high performance and powerful pressure combined with low noise operation.
- External airtight terminal block on the fan casing for power supply.
- Mounting brackets on the fan casing for mounting to the floor, to the wall or ceiling.



Motor

- Single-phase high-efficient motor with low energy demand on ball bearings.
- Overheating protection due to built-in thermal switches.
- Motor ingress protection rating IPX4.

Wiring

- Comes with a 1.2 m lead, 2 pin plug and external two speed switching.

Speed control

- Speed selection with a built-in speed switch or an external multi-speed controller (specially ordered accessory).
- Smooth speed control is possible with an external thyristor or transformer speed controller (specially ordered accessory) when connected to the maximum speed terminal.

Mounting

- Due to its compact design the fan is the ideal solution for mounting in limited spaces.
- The fan is suitable for mounting in any section of the ventilation system from intake to the end of the ductwork.
- Wall or ceiling mounting with a special bracket on the fan casing.

Designation key	
Series	Duct diameter [mm]
inWave	150

Accessories

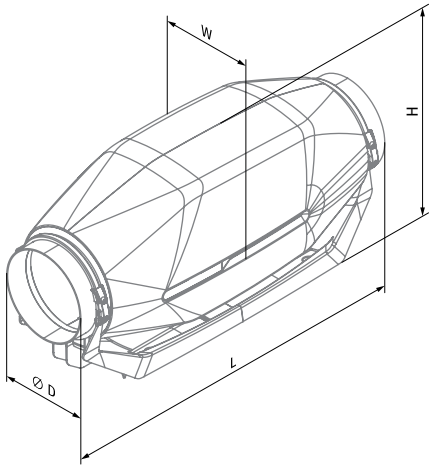
Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Ordering Information

Part Number	Model	Description
BLAINWAVE150	inWave 150	MIXFLO 150 MM 3 SPEED FAN – SILENT SERIES

Overall Dimensions [mm]

Type	∅ D	H	L	W	Weight [kg]
inWave 150	149	273	606	253	5.0

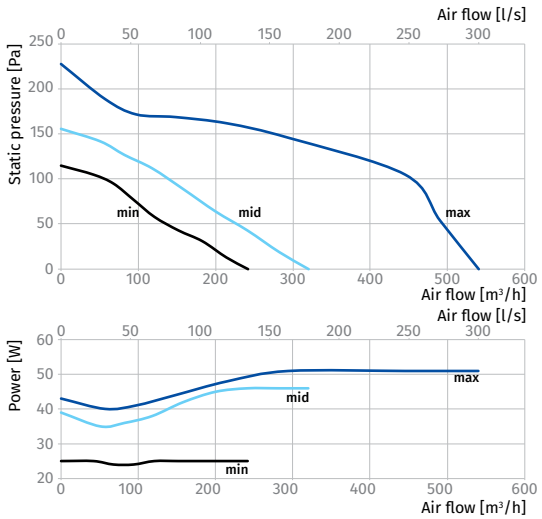


Technical Data

Parameters	inWave 150		
Spigot		150	
Speed	min	mid	max
Voltage [V / 50 Hz]		1~ 230	
Power [W]	25	46	51
Current [A]	0.20	0.21	0.24
Maximum air flow [m³/h (l/s)]	242 (67)	320 (89)	540 (150)
RPM [min⁻¹]	1982	2374	2738
Sound pressure at 3 m [dBA]	20	26	33
Max. transported air temperature [°C]		-25...+55	
IP rating		IPX4	
Motor IP rating		IP20	
ErP		2018	

INWAVE 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**61**	37	56	59	48	41	38	41	34	**41**	**51**
L_{WA} to outlet [dBA]	**60**	32	52	58	47	37	36	41	35	**39**	**49**
L_{WA} to environment [dBA]	**53**	33	50	49	40	35	30	30	24	**33**	**43**



inWave EC

Sound-insulated inline mixed-flow fans with EC motor

Use

- Combined supply and exhaust ventilation systems of various commercial and industrial spaces with stringent noise requirements (such as libraries, conference halls, classrooms, kindergarten playrooms etc.).
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 150 mm air ducts.

Air flow:
up to 600 m³/h
167 l/s

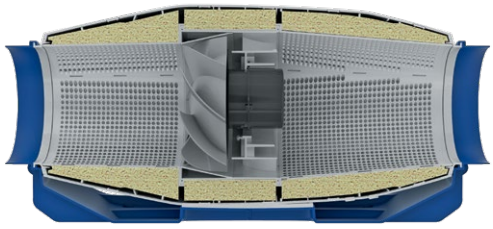
Power:
from 39 W

Features

- The new series of **inWave EC** duct fan series is provided with a special sound-insulated casing which ensures silent operation and excellent aerodynamic characteristics.
- **inWave EC** fans combine the versatility and outstanding performance of both axial and centrifugal fans producing a powerful air flow and high pressure while retaining the signature energy-efficiency and response of EC motors.
- Several fans can be integrated into a single computer-controlled system with sensor feedback combined with speed control across the entire dynamic range.

Design

- The casing and impeller are made of high-quality durable plastic.
- The internal casing perforations conduct sound waves and direct them at the noise-absorbing material at a specific angle. Noise and heat insulation is ensured by a mineral wool layer 50 mm in thickness. Wideband noise control is achieved by means of special casing perforation and the use of noise-absorbing material.



- Conical impellers with specially profiled blades help boost angular velocity of the air flow resulting in higher pressure and air capacity compared to the conventional designs. The combination of a diffuser, a specially designed impeller and flow straightener vanes at the fan outlet allow for an optimum flow distribution to achieve high capacity and increased air pressure without generating excessive noise.
- The fan casing is equipped with an external water-tight terminal box for electrical connections.

Motor

- High-efficient direct current EC motor.
- EC technology meets the up-to-date requirements to energy-saving and controllable ventilation and provides up to 35 % energy saving as compared to asynchronous motors.
- EC motor ensures totally controllable speed range for the fan and has integrated overheating protection with automatic restart.
- EC motor has no friction and wearing parts as capacitor und brushes. Instead a maintenance-free EC controller electronic circuit board is used.
- The impeller is dynamically balanced.
- The fan is compatible with 50 Hz and 60 Hz power mains and the maximum speed does not depend on power mains frequency.

Wiring

- Comes with a 1.2 m lead, 2 pin plug and built in 0-10V speed controller.

Ordering Information

Part Number	Model	Description
BLAINWAVE150EC	inWave EC 150	MIXFLO 150 MM FAN EC MOTOR – SILENT SERIES

Designation key

Series	Motor type	Spigot diameter [mm]	Motor modifications
inWave	**EC:** electronically commutated motor	**150**	**max:** high-powered motor

Accessories

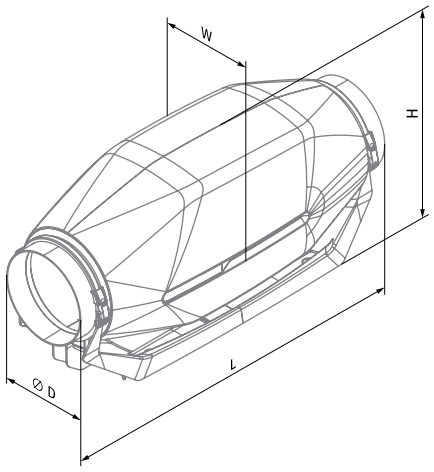
Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Speed control

- The fan speed is controlled with a 0–10 V control signal from the following sources:
  - integrated or external speed controller
  - controller with sensors
  - central BMS system.
- The control signal value changes depending on air temperature, pressure, smoke concentration and other parameters.
- During signal value change the fan with EC motor correspondingly changes the rotations speed and delivers required air volume to the ventilation system.
- The computer central building management systems (BMS) enable integration of several EC motors in network and precise individual operation control for each fan.

Mounting

- The fans are designed to be used with round air ducts.
- The fan casing has mounting brackets for convenient installation onto the floor, walls or ceiling. The ducts can be fitted at any angle relative to the fan axis.
- Make sure to provide sufficient maintenance access during fan installation. Electrical connection and installation must be performed in accordance with the instruction manual and the electrical connections diagram applied to the terminal box.
- A single system may have several fans installed in parallel to boost the output capacity or in series to boost the working pressure.



Overall Dimensions [mm]

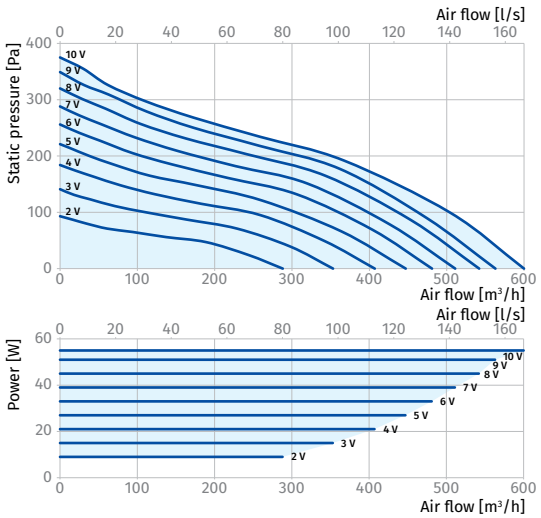
Type	⌀ D	H	L	W	Weight [kg]
inWave EC 150	149	273	606	253	5.0

Technical Data

Parameters	inWave EC 150
Spigot	150
Voltage [V / 50 Hz]	1~ 230
Power [W]	55
Current [A]	0.49
Maximum air flow [m³/h (l/s)]	600 (167)
RPM [min⁻¹]	3506
Sound pressure at 3 m [dBA]	38
Transported air temperature [°C]	-25...+55
IP rating	IPX4
Motor IP rating	IP44
ErP	2018

INWAVE EC 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**61**	45	58	58	41	37	33	30	23	**41**	**51**
L_{WA} to outlet [dBA]	**58**	47	58	46	43	39	32	27	20	**38**	**48**
L_{WA} to environment [dBA]	**58**	48	48	50	57	45	43	36	30	**38**	**48**



Iso-Mix

Sound insulated inline mixed flow fans

Use

- Supply and extract ventilation systems installed in various premises requiring low noise level.
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 150 up to ∅ 315 mm air ducts.

Air flow:
up to 1920 m³/h
533 l/s

Power:
from 45 W

Noise level:
from 38 dBA

Design

- The casing is made of polymer coated steel, internally filled with 50 mm mineral wool thermal- and sound-insulating layer.
- Special inner perforation of the casing and sound insulating material are designed for wide frequency sound absorbing.
- Mixed flow impeller made of high quality plastic.
- The diffusor, the specially profiled impeller and directing vanes provide high performance and powerful pressure combined with low noise operation.
- External airtight terminal block on the fan casing for power supply.
- Mounting brackets on the fan casing for mounting to the floor, to the wall or ceiling.

Motor

- 220-240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40 000 hours, are 2 speed with an exterior two speed switch and can be fitted with a speed controller.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Wiring

- All fans come standard with a 1.2 m lead, 2 pin plug and external two speed switching.

Mounting

- Due to its compact design the fan is the ideal solution for mounting in limited spaces.
- The fan is suitable for mounting in any section of the ventilation system from intake to the end of the ductwork.

Ordering Information

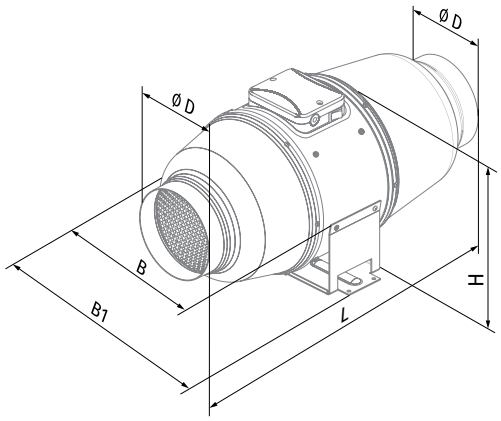
Part Number	Model	Description
BLATURBO150MIX	Iso-Mix 150	MIXFLO 150 mm 2 SPEED FAN – SILENT SERIES
BLATURBO200MIX	Iso-Mix 200	MIXFLO 200 mm 2 SPEED FAN – SILENT SERIES
BLATURBO250MIX	Iso-Mix 250	MIXFLO 250 mm 2 SPEED FAN – SILENT SERIES
BLATURBO315MIX	Iso-Mix 315	MIXFLO 315 mm 2 SPEED FAN – SILENT SERIES

Accessories

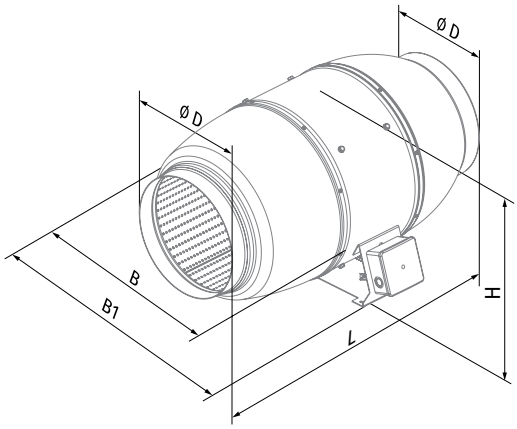
Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Overall Dimensions [mm]

Type	Ø D	B	B1	L	H	Weight [kg]
Iso-Mix 150	148	247	273	579	263	6.1
Iso-Mix 200	198	293	386	550	295	8
Iso-Mix 250	248	358	445	658	360	15
Iso-Mix 315	313	432	520	780	434	25



Iso-Mix 150



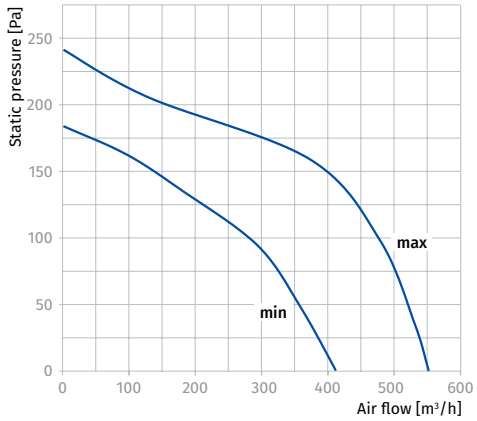
Iso-Mix 200 – Iso-Mix 315

Technical Data

Parameters	Iso-Mix 150		Iso-Mix 200		
Speed	min	max	min	mid	max
Voltage [V]	1 ~ 230		1 ~ 230		
Frequency [Hz]	50/60		50/60		
Power [W]	45	52	82	100	110
Current [A]	0.20	0.23	0.37	0.44	0.49
Maximum air flow [m³/h (l/s)]	410 (114)	550 (153)	731 (203)	961 (267)	1035 (288)
RPM [min⁻¹]	1985	2640	2376	2382	2445
Sound pressure at 3 m [dBA]	26	33	30	34	36
Max. transported air temperature [°C]	+60		+60		
SEC class	C		C		
IP rating	IPX4		IPX4		
Motor IP rating	IP44		IP44		
ErP	2018		2018		

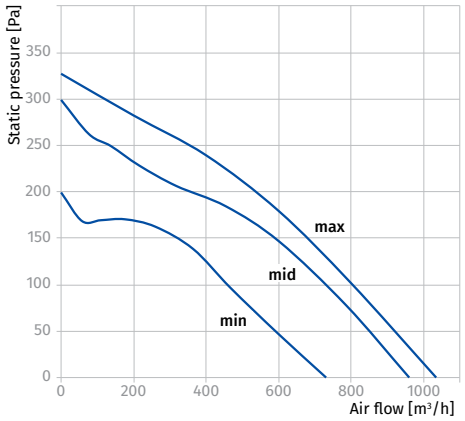
ISO-MIX 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Min speed											
L_{WA} to inlet [dBA]	**59**	32	49	55	53	52	38	28	15	**38**	**48**
L_{WA} to outlet [dBA]	**62**	36	41	44	61	53	44	44	29	**41**	**51**
L_{WA} to environment [dBA]	**47**	37	40	41	40	38	29	22	19	**26**	**36**
Max speed											
L_{WA} to inlet [dBA]	**68**	37	58	65	62	61	44	33	18	**48**	**58**
L_{WA} to outlet [dBA]	**66**	38	43	47	65	57	47	47	31	**45**	**55**
L_{WA} to environment [dBA]	**53**	44	47	48	47	45	34	26	23	**33**	**43**



ISO-MIX 200

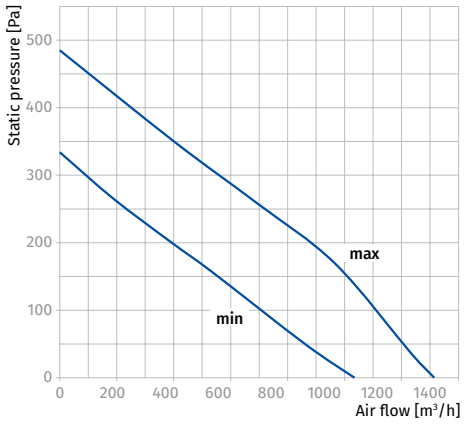
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Min speed											
L_{WA} to inlet [dBA]	**63**	34	53	60	57	56	41	31	17	**43**	**53**
L_{WA} to outlet [dBA]	**62**	43	46	53	56	58	53	46	36	**41**	**51**
L_{WA} to environment [dBA]	**52**	40	46	46	44	41	37	35	30	**31**	**41**
Max speed											
L_{WA} to inlet [dBA]	**69**	38	59	66	63	62	45	34	18	**49**	**59**
L_{WA} to outlet [dBA]	**67**	39	44	48	66	58	48	48	32	**47**	**57**
L_{WA} to environment [dBA]	**57**	44	52	52	49	45	41	39	34	**36**	**46**



Parameters	Iso-Mix 250		Iso-Mix 315	
Speed	min	max	min	max
Voltage [V]	1 ~ 230		1 ~ 230	
Frequency [Hz]	50/60		50/60	
Power [W]	127	178	230	330
Current [A]	0.52	0.79	0.93	1.41
Maximum air flow [m³/h (l/s)]	1035 (288)	1315 (365)	1510 (419)	1920 (533)
RPM [min⁻¹]	1960	2460	2120	2620
Sound pressure at 3 m [dBA]	34	38	36	40
Max. transported air temperature [°C]	+60		+60	
SEC class	–		–	
IP rating	IPX4		IPX4	
Motor IP rating	IP44		IP44	
ErP	2018		2018	

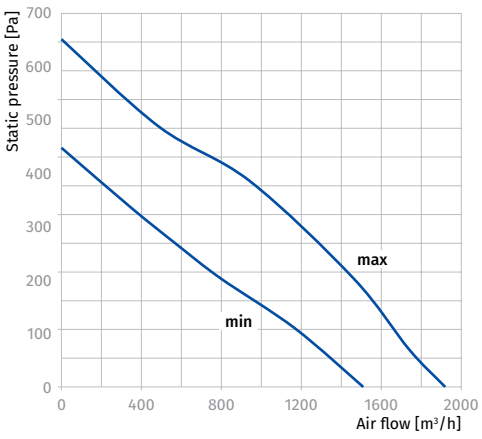
ISO-MIX 250

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Min speed											
L_{WA} to inlet [dBA]	**66**	36	56	63	60	59	43	32	17	**45**	**55**
L_{WA} to outlet [dBA]	**64**	37	42	46	63	55	46	46	30	**43**	**53**
L_{WA} to environment [dBA]	**55**	44	48	51	47	44	37	31	25	**34**	**44**
Max speed											
L_{WA} to inlet [dBA]	**69**	38	59	66	63	62	45	34	18	**49**	**59**
L_{WA} to outlet [dBA]	**75**	43	50	54	74	65	54	54	36	**54**	**64**
L_{WA} to environment [dBA]	**58**	47	49	53	53	49	44	39	31	**38**	**48**



ISO-MIX 315

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Min speed											
L_{WA} to inlet [dBA]	**67**	36	57	63	61	59	43	32	18	**46**	**56**
L_{WA} to outlet [dBA]	**65**	45	48	56	59	61	56	48	37	**44**	**54**
L_{WA} to environment [dBA]	**56**	47	47	52	50	45	41	37	29	**36**	**46**
Max speed											
L_{WA} to inlet [dBA]	**70**	38	60	67	64	62	45	34	18	**49**	**59**
L_{WA} to outlet [dBA]	**71**	50	53	62	65	67	62	53	41	**50**	**60**
L_{WA} to environment [dBA]	**60**	51	52	54	55	50	46	43	35	**40**	**50**



Iso-Mix EC

Sound-insulated inline mixed-flow fans with EC motor

Use

- Combined supply and exhaust ventilation systems of various commercial and industrial spaces with stringent noise requirements (such as libraries, conference halls, school classrooms, offices).
- For ventilation air ducts requiring high pressure, powerful air flow and low noise level.
- Compatible with ∅ 150 up to ∅ 315 mm air ducts.

Air flow:
up to 1970 m³/h
547 l/s

Power:
from 55 W

Noise level:
from 20 dBA

EC motor · ErP 2018

Features

- The new series of **Iso-Mix EC** duct fan series is provided with a special sound insulated casing which ensures silent operation and excellent aerodynamic characteristics.
- **Iso-Mix EC** fans combine the versatility and outstanding performance of both axial and centrifugal fans producing a powerful air flow and high pressure while retaining the signature energy efficiency and response of EC motors.
- Several fans can be integrated into a single computer controlled system with sensor feedback combined with speed control across the entire dynamic range.

Design

- The external casing is made of steel with a polymer coating.
- The internal casing perforations conduct sound waves and direct them at the noise absorbing material at a specific angle. Noise and heat insulation is ensured by a mineral wool layer 50 mm in thickness. Wideband noise control is achieved by means of special casing perforation and the use of noise absorbing material.
- The inner casing and the impeller are made of durable high quality plastic.
- Conical impellers with specially profiled blades help boost angular velocity of the air flow resulting in higher pressure and air capacity compared to the conventional designs. The combination of a diffuser, a specially designed impeller and flow straightener vanes at the fan outlet allow, for an optimum flow distribution to achieve high capacity and increased air pressure without generating excessive noise.
- The fan casing is equipped with an external water tight terminal box for electrical connections.

Motor

- High efficient direct current EC motor.
- EC technology meets the up to date requirements to energy saving and controllable ventilation and provides up to 35 % energy saving as compared to asynchronous motors.
- EC motors ensure totally controllable speed range for the fan and has integrated overheating protection with automatic restart.
- EC motor has no friction and wearing parts as capacitor und brushes. Instead a maintenance free EC controller electronic circuit board is used.
- The impeller is dynamically balanced.
- The fan is compatible with 50 Hz and 60 Hz power mains and the maximum speed does not depend on power mains frequency.
- All motors have a sealed ball bearing motor with a service life of up to 40 000 hours, are 2 speed with an exterior two speed switch and can be fitted with a speed controller.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Wiring

- Comes with a 1.2 m lead, 2 pin plug and built in 0-10V speed controller.

Speed Control

- The fan speed is controlled with a 0–10 V control signal from the following sources:
  - integrated or external speed controller
  - controller with sensors
  - central BMS system.
- The control signal value changes depending on air temperature, pressure, smoke concentration and other parameters.
- During signal value change the fan with EC motor correspondingly changes the rotations speed and delivers required air volume to the ventilation system.
- The computer central building management systems (BMS) enable integration of several EC motors in network and precise individual operation control for each fan.

Mounting

- The fans are designed to be used with round air ducts.
- The fan casing has mounting brackets for convenient installation onto the floor, walls or ceiling. The ducts can be fitted at any angle relative to the fan axis.
- Make sure to provide sufficient maintenance access during fan installation. Electrical connection and installation must be performed in accordance with the instruction manual and the electrical connections diagram applied to the terminal box.
- A single system may have several fans installed in parallel to boost the output capacity or in series to boost the working pressure.

Designation key

Series	Motor type	Spigot diameter [mm]
Iso-Mix	**EC:** electronically commutated motor	**150; 200; 250; 315**

Accessories

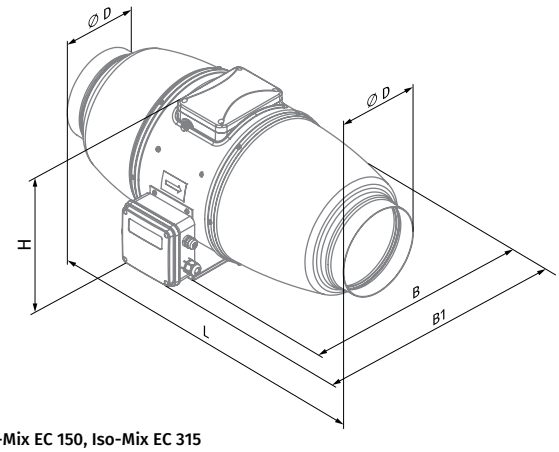
Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Ordering Information

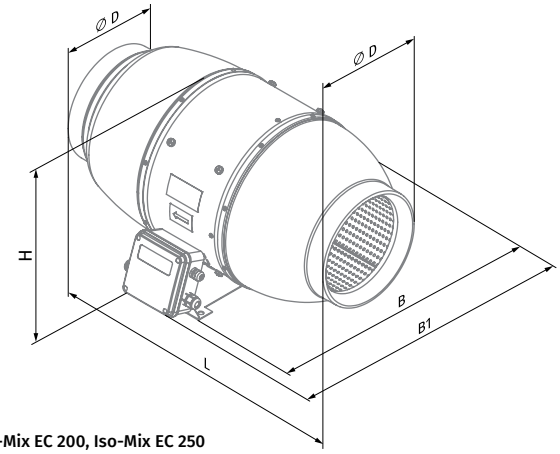
Part Number	Model	Description
BLATURBOEC150MIX	Iso-Mix EC 150	MIXFLO 150 mm FAN EC MOTOR – SILENT SERIES
BLATURBOEC200MIX	Iso-Mix EC 200	MIXFLO 200 mm FAN EC MOTOR – SILENT SERIES
BLATURBOEC250MIX	Iso-Mix EC 250	MIXFLO 250 mm FAN EC MOTOR – SILENT SERIES
BLATURBOEC315MIX	Iso-Mix EC 315	MIXFLO 315 mm FAN EC MOTOR – SILENT SERIES

Overall Dimensions [mm]

Type	Ø D	B	B1	H	L	Weight [kg]
Iso-Mix EC 150	147	273	314	264	579	6.1
Iso-Mix EC 200	198	343	393	296	558	8.0
Iso-Mix EC 250	248	402	452	363	664	15.0
Iso-Mix EC 315	313	478	528	455	785	25.0



Iso-Mix EC 150, Iso-Mix EC 315



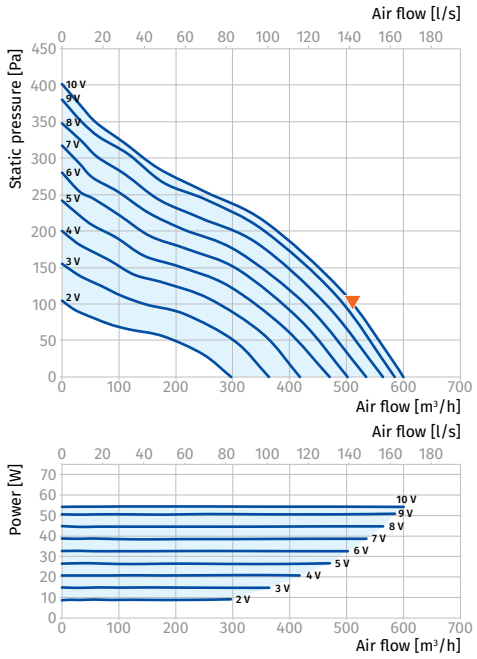
Iso-Mix EC 200, Iso-Mix EC 250

Technical Data

Parameters	Iso-Mix EC 150	Iso-Mix EC 200	Iso-Mix EC 250	Iso-Mix EC 315
Voltage [V / 50 Hz]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Power [W]	55	123	169	284
Current [A]	0.48	1.02	1.38	1.25
Maximum air flow [m³/h (l/s)]	600 (167)	1040 (289)	1285 (357)	1970 (547)
RPM [min⁻¹]	3390	3390	2870	2826
Sound pressure at 3 m [dBA]	38	43	42	46
Transported air temperature [°C]	-25...+55	-25...+55	-25...+55	-25...+55
IP rating	IPX4	IPX4	IPX4	IPX4
SEC class	B	-	-	-
ErP	2018	2018	2018	2018

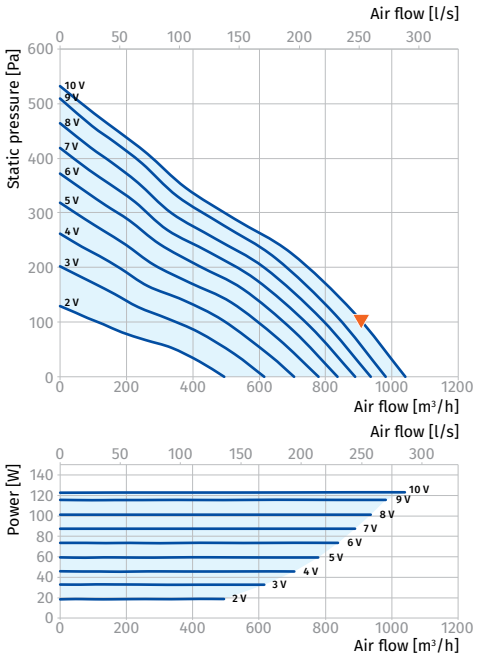
ISO-MIX EC 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**61**	45	58	58	41	37	33	30	23	**41**	**51**
LwA to outlet [dBA]	**58**	47	58	46	43	39	32	27	20	**38**	**48**
LwA to environment [dBA]	**58**	48	48	50	57	45	43	36	30	**38**	**48**



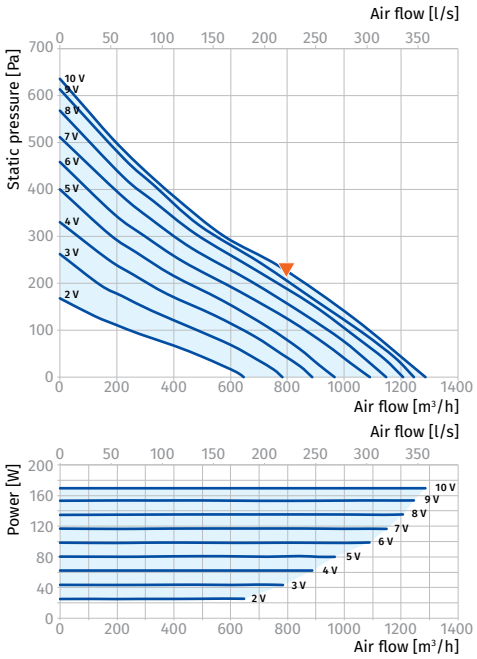
ISO-MIX EC 200

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to inlet [dBA]	**68**	37	47	57	63	63	62	61	55	**48**	**58**
LwA to outlet [dBA]	**70**	42	50	59	64	66	64	63	58	**50**	**60**
LwA to environment [dBA]	**63**	31	43	53	61	56	53	47	37	**43**	**52**



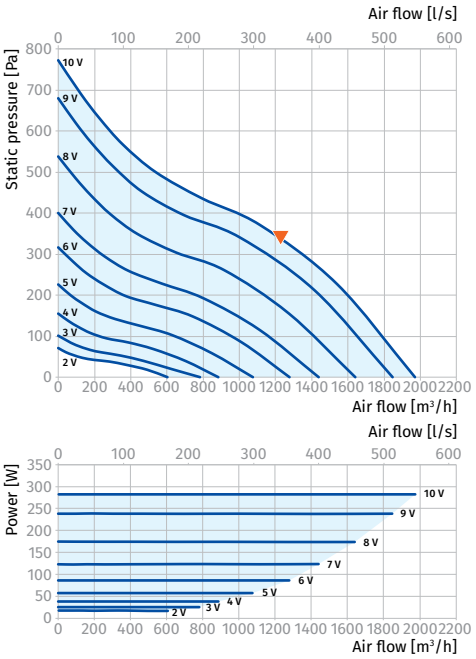
ISO-MIX EC 250

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**70**	45	48	60	66	65	63	58	52	**50**	**60**
L_{WA} to outlet [dBA]	**74**	46	54	62	70	69	66	63	56	**54**	**64**
L_{WA} to environment [dBA]	**63**	40	45	52	60	57	51	43	31	**42**	**52**



ISO-MIX EC 315

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**72**	41	55	64	65	70	65	63	55	**52**	**62**
L_{WA} to outlet [dBA]	**77**	52	61	67	74	71	69	67	62	**57**	**66**
L_{WA} to environment [dBA]	**66**	33	48	58	60	63	57	50	38	**46**	**55**



Centro

Inline centrifugal fans

Use

- Supply and extraction ventilation of offices, bathrooms, toilets, laundries, kitchens, ensuites in apartments, hotels, homes and commercial buildings.
- Compatible with ∅ 150 up to 315 mm round air ducts.

Air flow:
up to 1700 m³/h
472 l/s

Power:
from 80 W

Noise level:
from 42 dBA

Design

- High quality durable plastic casing.
- Aerodynamically shaped casing.
- Airtight mounting box.

Motor

- 220–240 V single phase at 50 Hz.
- All motors have a sealed ball bearing motor with a service life of up to 40,000 hours.
- All motors have manual reset thermal overload protection as required for inline duct fans AS/NZS60335-2-80:2004.

Wiring

- All fans come standard with a 1.2 m lead and 2 pin plug.
- Fans can be speed controlled.

Mounting

- Due to compact design the fan is the ideal solution for mounting in limited spaces.
- Any mounting position.
- Wall or ceiling mounting with fixing brackets supplied as a standard.
- Flexible air ducts are fixed on the fan spigots.

Designation key		
Series	**Duct diameter [mm]**	**Motor modifications**
Centro	**150; 200; 250; 315**	**max:** high powered motor

Ordering Information

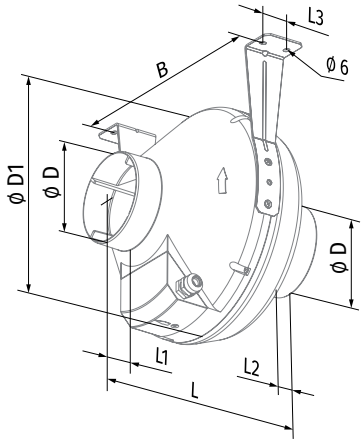
Part Number	Model	Description
BLACENTRO150	Centro 150	INLINE FAN CENTRIFUGAL 150 mm
BLACENTRO200	Centro 200	INLINE FAN CENTRIFUGAL 200 mm
BLACENTRO250	Centro 250	INLINE FAN CENTRIFUGAL 250 mm
BLACENTRO315	Centro 315	INLINE FAN CENTRIFUGAL 315 mm
BLACENTRO315MAX	Centro 315 max	INLINE FAN CENTRIFUGAL 315 mm

Accessories

Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

Overall Dimensions [mm]

Type	∅ D	∅ D1	B	L	L1	L2	L3	Weight [kg]
Centro 150	150/160	300	310	286	30	30	30	2.45
Centro 200	200	340	354	276	30	30	40	3.00
Centro 250	250	340	354	265	30	30	40	4.30
Centro 315	315	400	414	276	40	55	40	4.85
Centro 315 max	315	400	414	276	40	55	40	4.85

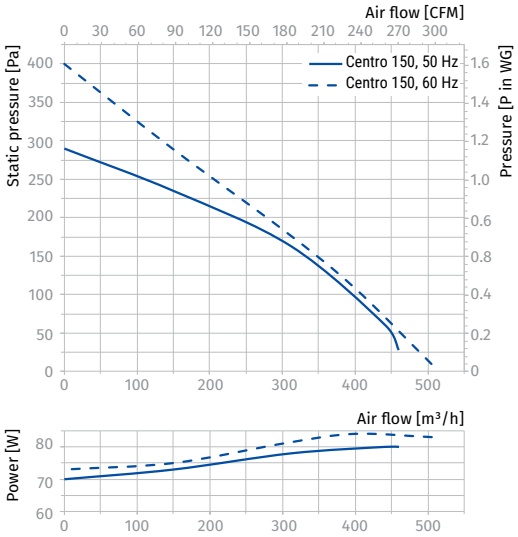


Technical Data

Parameters	Centro 150		Centro 200	
Voltage [V]	1 ~ 230		1 ~ 230	
Frequency [Hz]	50	60	50	60
Power [W]	80	84	107	132
Current [A]	0.35	0.37	0.47	0.58
Maximum air flow [m³/h (l/s)]	460 (128)	505 (140)	780 (217)	890 (247)
RPM [min⁻¹]	2725	2840	2660	2765
Sound pressure at 3 m [dBA]	42	42	46	46
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+50
SEC class	B	–	B	–
IP rating	IPX4		IPX4	
Motor IP rating	IP44		IP44	
ErP	2018		2018	

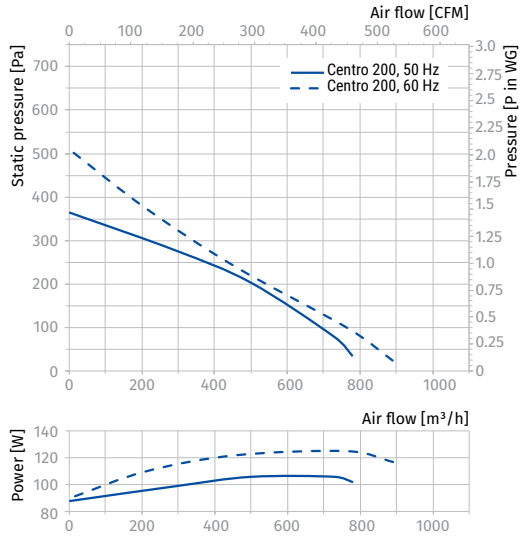
CENTRO 150

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	53	87	86	75	74	71	68	54	**69**	**79**
L_{WA} to outlet [dBA]	**90**	53	88	85	72	71	66	65	52	**69**	**79**
L_{WA} to environment [dBA]	**63**	26	46	55	57	57	57	47	35	**42**	**52**



CENTRO 200

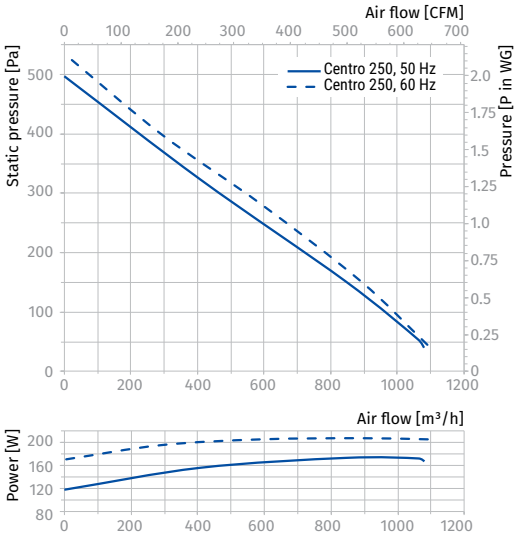
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**85**	47	74	81	77	77	78	70	59	**65**	**75**
L_{WA} to outlet [dBA]	**83**	44	73	77	75	75	78	70	60	**63**	**73**
L_{WA} to environment [dBA]	**66**	27	48	59	61	61	59	51	39	**46**	**56**



Parameters	Centro 250		Centro 315	Centro 315 max
Voltage [V]	1 ~ 230		1 ~ 230	1 ~ 230
Frequency [Hz]	50	60	50	50
Power [W]	173	207	200	310
Current [A]	0.76	0.9	0.88	1.36
Maximum air flow [m³/h (l/s)]	1080 (300)	1090 (303)	1340 (372)	1700 (472)
RPM [min⁻¹]	2090	2120	2655	2590
Sound pressure at 3 m [dBA]	49	49	48	57
Max. transported air temperature [°C]	-25...+55	-25...+50	-25...+55	-25...+45
SEC class	B	–	–	–
IP rating	IPX4		IPX4	IPX4
Motor IP rating	IP44		IP44	IP44
ErP	2018		2018	2018

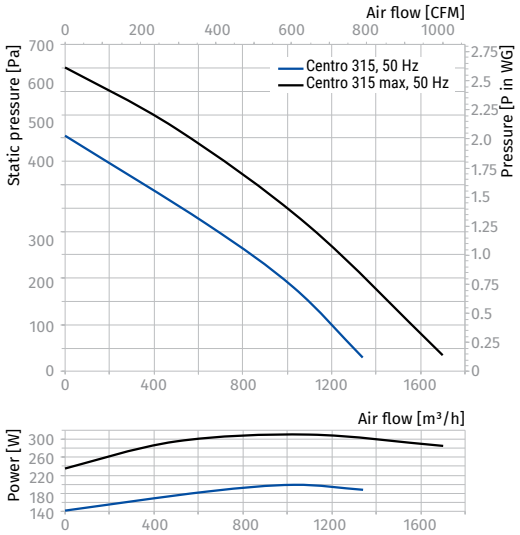
CENTRO 250

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to inlet [dBA]	**90**	61	78	85	83	85	81	77	65	**70**	**80**
L_{WA} to outlet [dBA]	**88**	64	77	73	82	84	82	77	63	**68**	**78**
L_{WA} to environment [dBA]	**69**	35	49	61	64	64	62	50	39	**49**	**59**



CENTRO 315, CENTRO 315 MAX

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Centro 315											
L_{WA} to inlet [dBA]	**86**	51	73	71	75	81	82	77	68	**66**	**76**
L_{WA} to outlet [dBA]	**87**	55	66	76	73	81	84	77	69	**66**	**76**
L_{WA} to environment [dBA]	**69**	30	48	59	63	65	62	52	38	**48**	**58**
Centro 315 max											
L_{WA} to inlet [dBA]	**93**	56	80	78	82	88	89	84	74	**73**	**83**
L_{WA} to outlet [dBA]	**93**	59	72	82	79	87	90	83	75	**72**	**82**
L_{WA} to environment [dBA]	**78**	33	54	63	71	73	73	63	55	**57**	**67**



Ducto

Inline fans

Use

- Low noise axial inline fans for exhaust or supply ventilation with superior capacity up to 340 m³/h.
- Designed for PVC ducting systems or flexible ducts.
- From low to medium air flow motion for short distances at low air resistance.
- Compatible with ∅ 100, 125 and 150 mm air ducts.

Air flow:
up to 340 m³/h
94 l/s

Power:
from 7.5 W

Noise level:
from 25 dBA

IPX4

Design

- The casing and the impeller are made of high quality durable plastic.
- Specially designed mixed flow impeller profile ensures high air flow and low noise level.
- Low energy usage from 7.5 W.
- The models of Blauberg Ducto Series are equipped with a single-phase motor.
- The motor has thermal overheating protection for motor overload prevention.
- Motor mounted on special anti-vibration connectors.

Wiring

- Comes with a 1.2 m lead, 2 pin plug.

Overall Dimensions and Mounting

- The fan is mounted into a matching duct size. Fastening with clamps in case of flexible duct connection. The mounting bracket enables installation of the fan on horizontal and vertical flat surfaces. Two fans can be installed in series for higher operation pressure.

Ducto Kit

- The Ducto loft mounted extractor fan kit is an all in one extraction system for exhaust ventilation of bathrooms, showers, wet rooms and other utility spaces.
- Consist: Ducto 150 fan, flexible aluminium duct 5 m, internal round plastic grille, external square plastic grille, adhesive duct tape.

Designation key	
Series	Spigot diameter
Ducto	150

Ordering Information

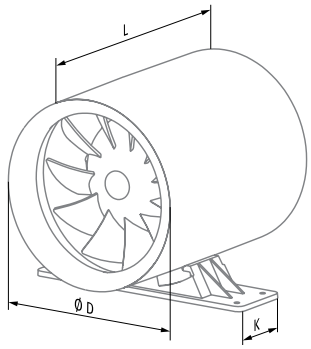
Part Number	Model	Description
BLADUCTO150	Ducto 150	INLINE AXIAL FAN 150 mm
BLABDUCTOKIT	Ducto 150 Kit	INLINE AXIAL FAN 150 mm KIT

Accessories

Filter box	Speed controller	Grilles and cowls	Ducting	Backdraft damper
				

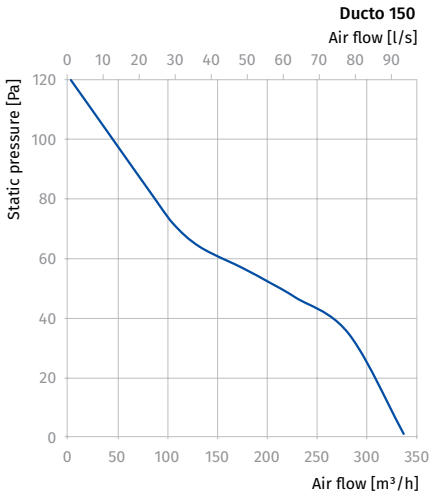
Overall Dimensions [mm]

Type	∅ D	L	K	Weight [kg]
Ducto 150	150	181.5	53.5	1.3



Technical Data

Model	Ducto 150
Voltage [V]	220–240
Frequency [Hz]	50
Power [W]	22
Current [A]	0.095
Air flow [m³/h (l/s)]	340 (94)
RPM [min⁻¹]	2250
Noise level [dBA]	39



Bravo

Exhaust fans

Features

- Wall and ceiling mounting
- Low noise impeller
- Easy maintenance
- Continuous operation
- Backdraft damper
- Ball bearing motor
- 5 year warranty

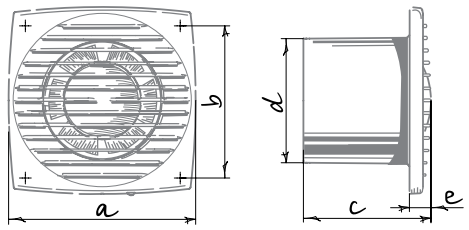
Air flow:
up to 305 m³/h
85 l/s

Power: from 14 W
SFP: from 0.28 W/l/s

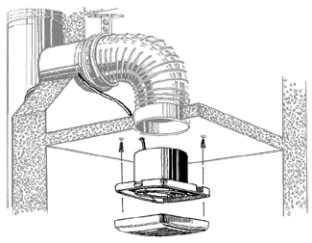
Noise level:
from 35 dBA

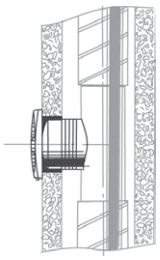
IP22

Overall Dimensions and Mounting



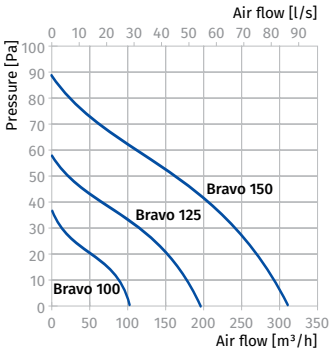
Dimensions [mm]	a	b	c	Ø d	e
Bravo 100	150	122	102	100	17
Bravo 125	176	144	104	125	17
Bravo 150	205	174	124	150	19





Technical Data

Model	Bravo 100	Bravo 125	Bravo 150
Voltage [V/Hz]	220-240/50	220-240/50	220-240/50
Power [W]	14	16	24
Current [A]	0.085	0.1	0.13
RPM [min⁻¹]	2300	2400	2400
Air flow [m³/h (l/s)]	101 (28)	192 (53)	305 (85)
SFP [W/l/s]	0.5	0.3	0.28
Noise level [dBA]	35	37	39



Ordering Information

Part Number	Model	Description
BLABBRAVO100	Bravo 100	WALL/CEILING FAN 100 mm
BLABBRAVO125	Bravo 125	WALL/CEILING FAN 125 mm
BLABBRAVO150	Bravo 150	WALL/CEILING FAN 150 mm

Accessories

Flexible air ducts

Grilles and cowls

Quatro

Exhaust fans with decorative front panel

Features

- Wall and ceiling mounting.
- Easy maintenance.
- Low noise impeller.
- Continuous operation.
- Backdraft damper.
- Ball bearing motor.
- 5 year warranty.

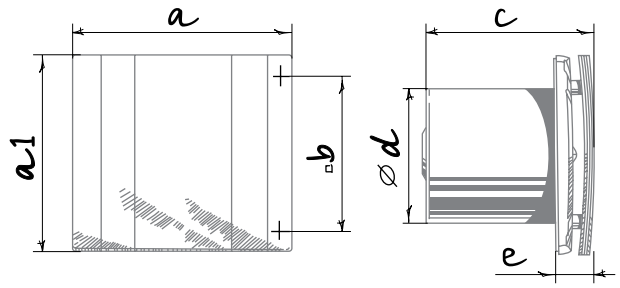
Air flow:
up to 265 m³/h
74 l/s

Power: from 24 W
SFP: from 0.33 W/l/s

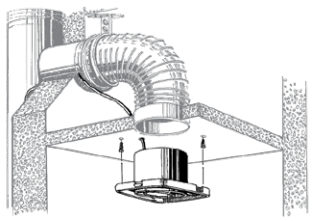
Noise level:
from 37 dBA

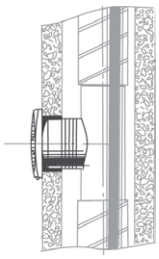
IP22

Overall Dimensions and Mounting



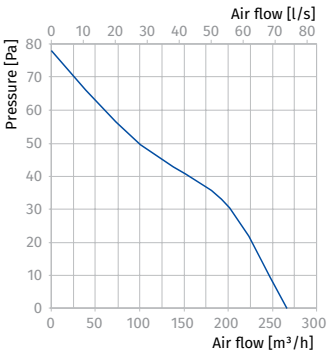
Dimensions [mm]	a	a1	b	c	Ø d	e
Quatro 150	236	207	165	157	150	38





Technical Data

Model	Quatro 150
Voltage [V/Hz]	220-240/50
Power [W]	24
Current [A]	0.13
RPM [min⁻¹]	2400
Air flow [m³/h (l/s)]	265 (74)
SFP [W/l/s]	0.33
Noise level [dBA]	37



Ordering Information

Part Number	Model	Description
BLABQUATRO150	Quatro 150	WALL FAN 150 mm STANDARD WHITE

Accessories	
Flexible air ducts	Grilles and cowls

Wind

Window exhaust fans

Features

- Window mounting
- Low noise impeller
- Easy maintenance
- Ball bearing motor
- Continuous operation
- Automatic shutters
- 5 year warranty

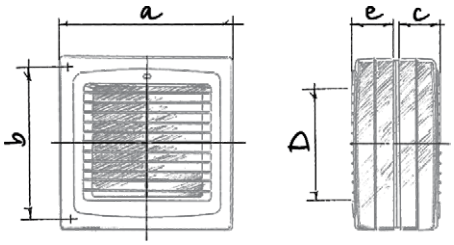
Air flow:
up to 295 m³/h
82 l/s

Power: from 26 W
SFP: from 0.32 W/l/s

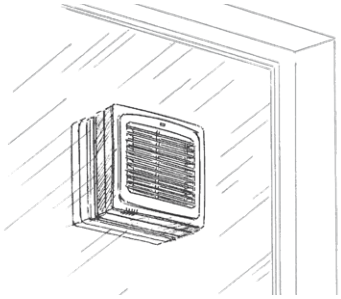
Noise level:
from 41 dBA

IP22

Overall Dimensions and Mounting

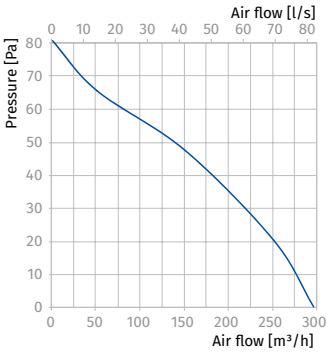


Dimensions [mm]	a	b	e	c	D
Wind 150	210	195	66	60	150



Technical Data

Model	Wind 150
Voltage [V/Hz]	220-240/50
Power [W]	26
Current [A]	0.13
RPM [min⁻¹]	2400
Air flow [m³/h (l/s)]	295 (82)
SFP [W/l/s]	0.32
Noise level [dBA]	41



Ordering Information

Part Number	Model	Description
BLABWIND150	Wind 150	WALL FAN 150 mm FOR GLASS WITH AUTO SHUTTERS

Ultra

Ceiling exhaust fans

Features

- Ultra-modern design
- Ultra comfort lighting when using decorative panels with integrated Tri-Colour LED light
- Ultra high efficiency thanks to forward curved impeller
- Ultra low resistance of the integrated backdraft damper
- Ultra silent operation thanks to optimized casing design
- Ultra easy installation and service thanks to optimized construction
- Ultra trouble free with 5 years' warranty
- Replaceable decorative panels allow you to have a modern design in any style at any time.

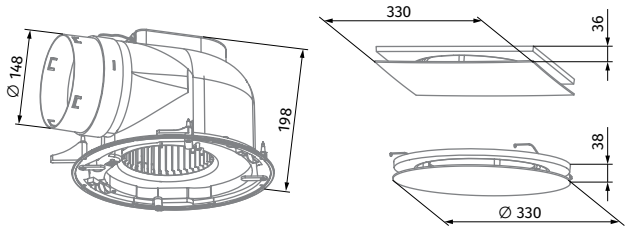
Air flow:
up to 482 m³/h
134 l/s

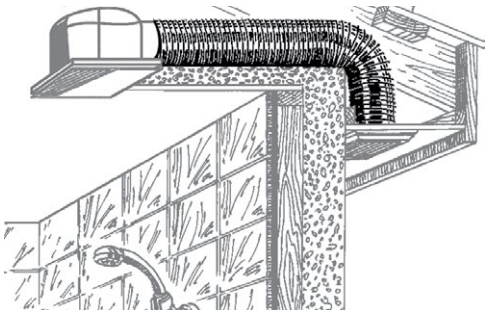
Power: from 57 W
SFP: from 0.43 W/l/s

Noise level:
from 36 dBA

IPX4

Overall Dimensions and Mounting

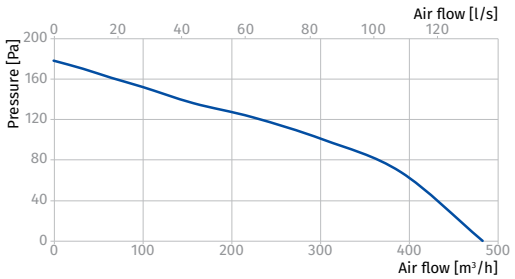




Technical Data

Model	Ultra 250
Frequency [Hz]	50
Voltage [V]	220-240
Fan power [W]	57
Fan current @ 230 V [A]	0.25
Max. airflow [m³/h (l/s)]	482 (134)
SFP [W/l/s]	0.43
Sound pressure level [dBA]*	36

*Sound pressure level measured in free space at a distance of 3 meters from the fan.



Options

- The fan can be equipped with a turn-off delay timer (T)

LED Light Characteristics

Panel	Power input [W]	Luminous power [Lm]	Color emperature [K]	Beam angle [°]
Round	12	1200	3000/4000/6500	120
Square	12	1200	3000/4000/6500	120

Ordering Information

Part Number	Model	Description
BLAULTRA	Ultra 250	300 mm Round Fan Housing
BLAULTRAT	Ultra 250 T	300 mm Round Fan Housing With Timer
BLAULTRASQGRILLE	DP Ultra 250 Square	Square Grille – White
BLAULTRAROGRILLE	DP Ultra 250 Round	Round Grille – White
BLAULTRASQGRILLEBK	DP Ultra 250 Square Black	Square Grille – Black
BLAULTRAROGRILLEBK	DP Ultra 250 Round Black	Round Grille – Black
BLAULTRASQGRILLELED	DP Ultra 250 Square Tri-Colour Light	Square Grille – White With LED
BLAULTRAROGRILLELED	DP Ultra 250 Round Tri-Colour Light	Round Grille – White With LED

Decorative Panels


DP Ultra 250 Round


DP Ultra 250 Round Tri-Colour Light


DP Ultra 250 Round Black

DP Ultra 250 Square


DP Ultra 250 Square Tri-Colour Light


DP Ultra 250 Square Black

Vento Expert A50-1 S10 Pro

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

Air flow:
up to 50 m³/h
14 l/s

Heat recovery efficiency:
up to 93 %

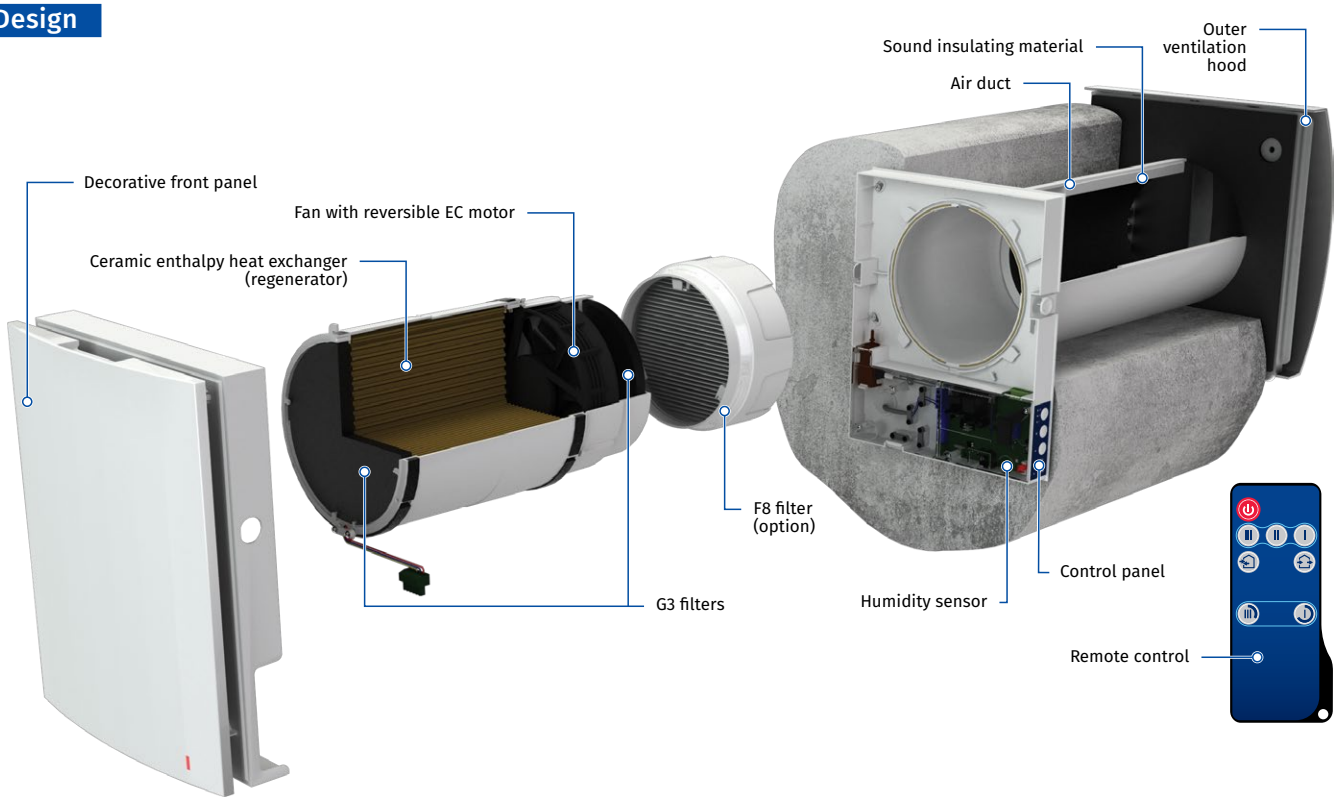
Power: from 3.61 W
SFP: from 0.75 W/l/s

Noise level:
from 11 dBA

EC motor

ErP 2018

Design



Easy maintenance.
Indoor unit is opened by pressing the latches on both sides

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

Integrated automatic air shutters prevent air back drafting

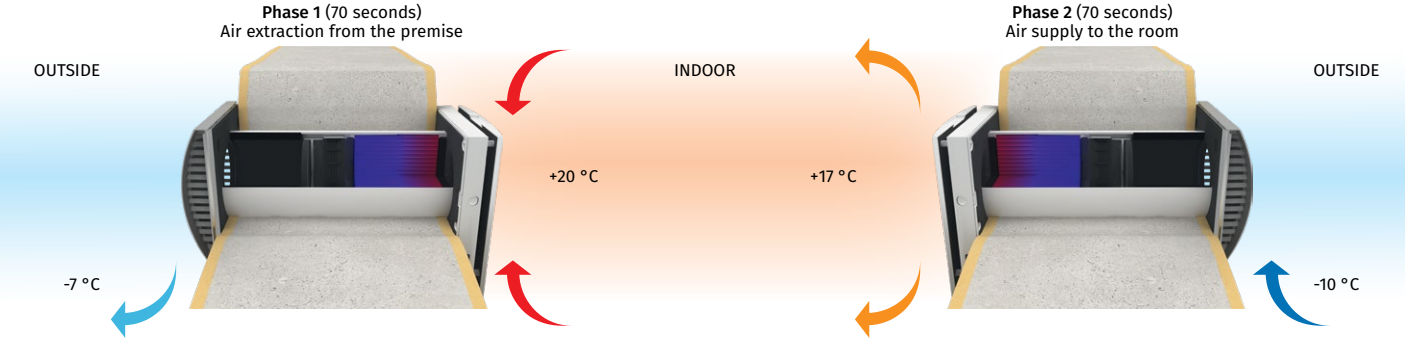
The specially designed front panel can be closed manually to ensure 100 % air tightness and protect against wind impact

Designation key

Model	Air duct	Rated air flow [m³/h]	Front panel	Ventilation hood type	Control
Vento Expert	**A:** round air duct	**50**	**-1:** flat front panel	**S10:** white plastic hood AH-10 white 160 (for standard walls) **S:** metal hood for thin walls	**Pro:** control with touch buttons and a remote control

Heat and Moisture Regeneration

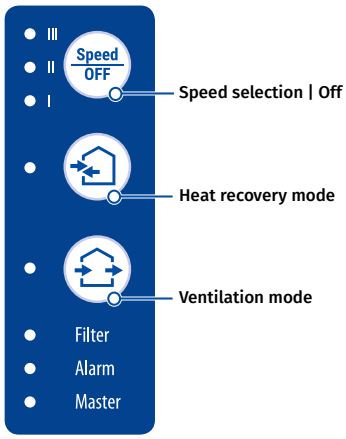
UNIT OPERATING LOGIC IN WINTER PERIOD

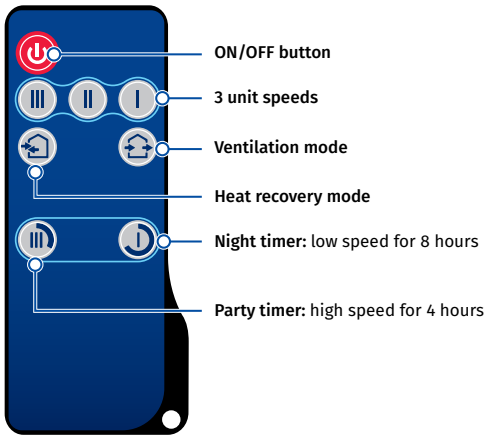


- Warm stale air is extracted from the premise, flows through the ceramic regenerator and transfers its heat energy and moisture to it.
- As the ceramic regenerator gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the regenerator and absorbs accumulated heat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

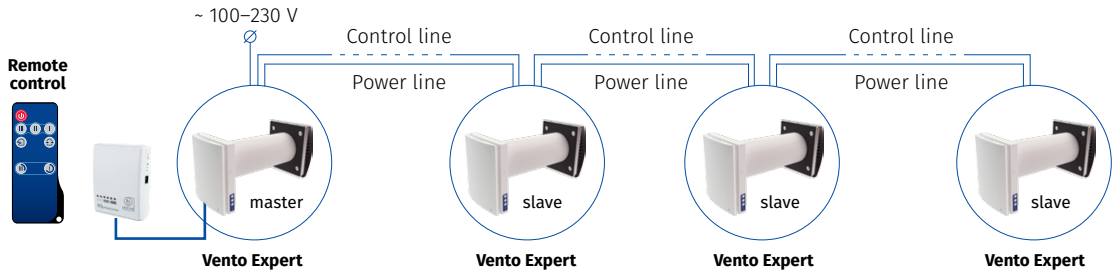
Control

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





Vento Expert is equipped with a humidity sensor for indoor humidity control. If humidity increases above a set point, the unit boosts to the speed III.
Vento Expert 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.

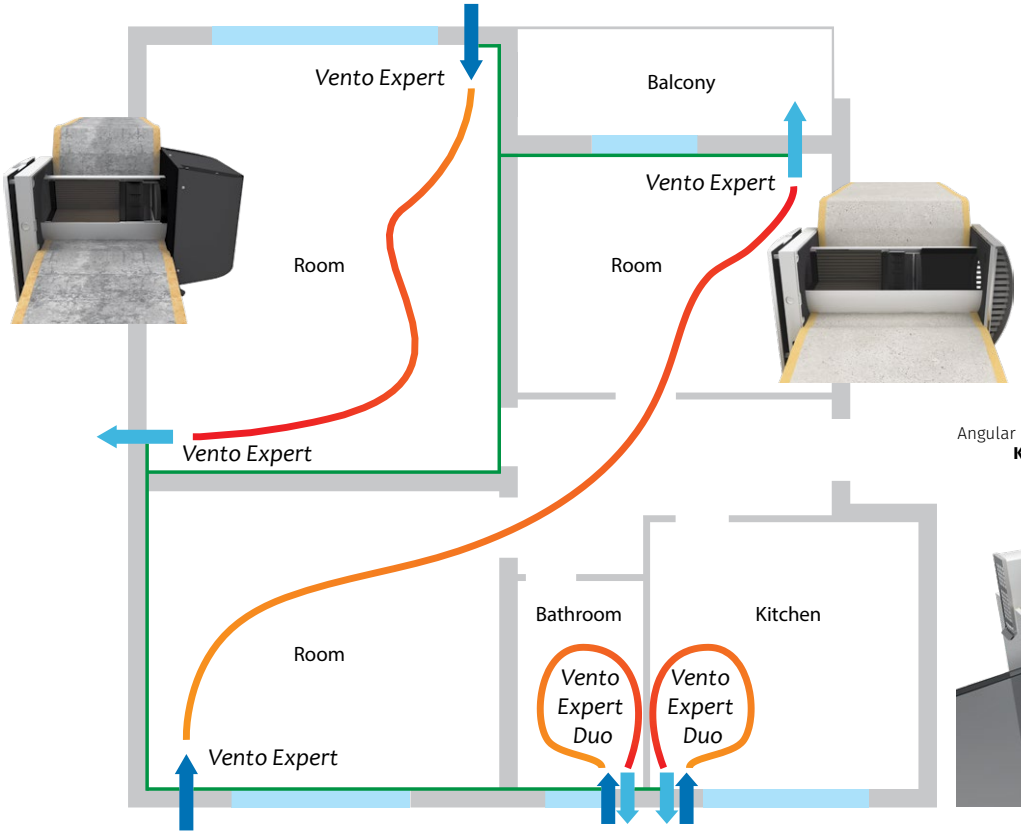


Ordering Information

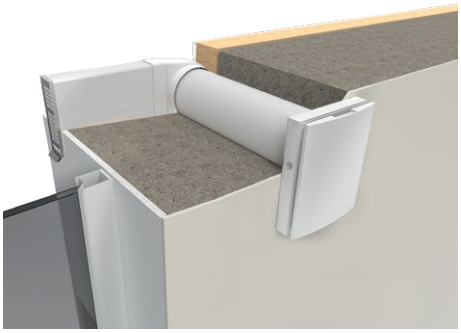
Part Number	Model	Description
BLAVENTOA50PRO	Vento Expert A50-1 S10 Pro	SINGLE ROOM ERV

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 connected 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.
- In case of brand new construction, units are mounted in two stages:
  - **Pre-installation** at the stage of the indoor finishing and outer decorative wall finishing. It includes installation of an air duct, an outer ventilation hood and cable installation.
  - **Final mounting** before commissioning of a house. It includes installation of a regenerator with a fan and filters and mounting and wiring of an indoor unit with a controller and shutters.



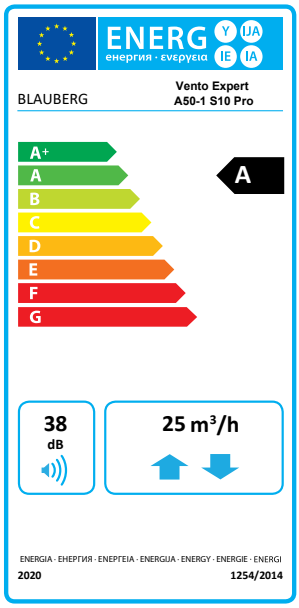
Angular mounting into a wall with standard thickness using **KIT BlauPlast white 160 / KIT BlauPlast chrome 160**



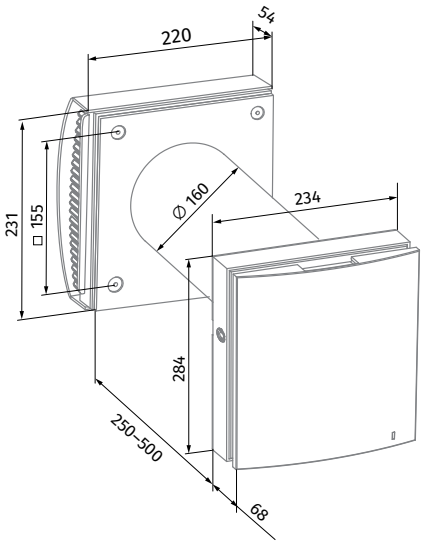
Technical data

Parameters	Vento Expert A50-1 S10 Pro		
Speed	I	II	III
Voltage [V / 50 (60) Hz]		100–240	
Power [W]	3.61	4.15	5.20
Current [A]	0.025	0.030	0.039
RPM [min⁻¹]	800	1300	1900
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]	1.73	1.00	0.75
Filter		G3 (Option: F8 PM2.5 > 99 %*)	
Transported air temperature [°C]		-20...+40	
Sound pressure level at 1 m [dBA]	20	27	30
Sound pressure level at 3 m [dBA]	11	18	21
Outdoor sound pressure attenuation [dBA] in accordance with DIN EN 20140		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 according to DIBt LÜ-A 20 [%]		up to 93	
Ingress Protection Rating		IP24	

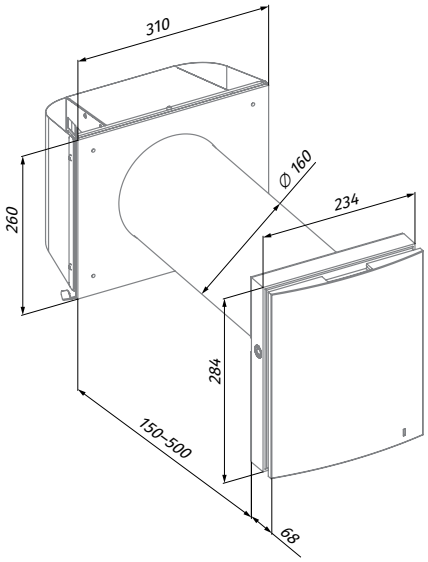
* maximum air flow 40 m³/h



Overall Dimensions [mm]



Vento Expert A50-1 S10 Pro



Vento Expert A50-1 S Pro
(for thin walls)

Accessories

		Description
Pre-installation Kit Vento Expert A50-1 S10		Pre-installation kit for mounting into a wall with standard thickness. Includes: • Air duct • AH 160 outer ventilation hood • Plastic foam plug • Plastic foam wedges
Pre-installation Kit Vento Expert A50-1 S		Pre-installation kit for mounting into a thin wall. Includes: • Air duct • AH-S chrome 160 outer ventilation hood • Plastic foam plug • Plastic foam wedges
Completion Kit Vento Expert A50-1		Final mounting kit. Includes: • Cartridge with a heat regenerator, a fan and G3 filters • Indoor unit with a controller and shutters • Remote control
ZL1 Vento 160/150		Cartridge with heat regenerator for cold climate
FP Vento Expert A50 G3		G3 filters (2 pcs.)
FP Vento Expert A50 F8		Includes: • Plastic frame (1 pc.) • G2 pre-filter (1 pc.) • F8 filter (1 pc.). Filtration rate PM2.5 > 99 % F8 filter reduces airflow of the unit down to 40 m³/h
AH-8 white 160		White painted aluminium outer ventilation hood with frost protection for a cold climate
AH-8 chrome 160		Brushed stainless steel outer ventilation hood with frost protection for a cold climate
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 chrome 160		Outer ventilation hood for thin wall made of brushed stainless steel
AH-S grey 160		Outer ventilation hood for thin wall, painted grey
PP 160/0.5		Outer plastic ventilation hood for mounting from inside

		Description
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)
FB-Vento Expert		Remote control
CD-1		CO_2 sensor with LED indication and On/Off button
CD-2		CO_2 sensor

Vento Expert A50-1 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.

Air flow:
up to 50 m³/h
14 l/s

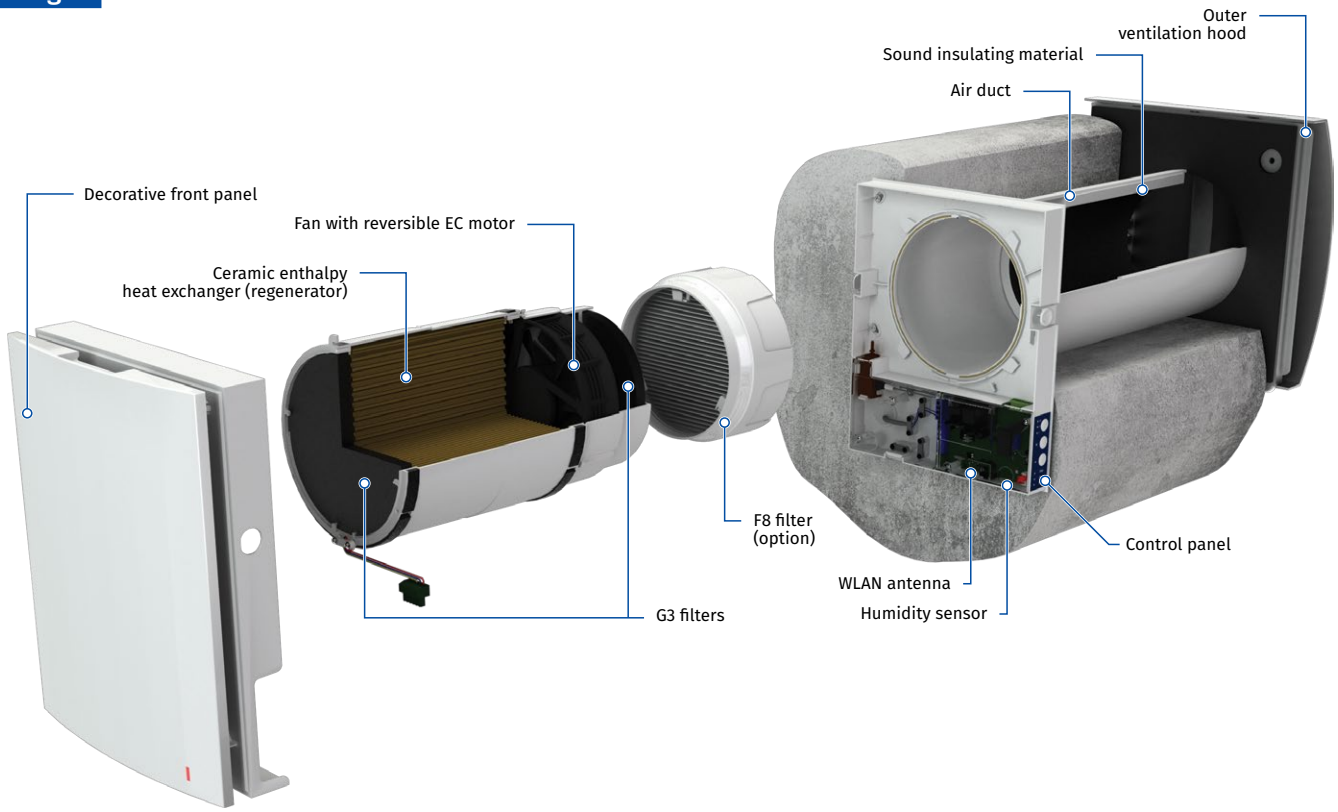
Heat recovery efficiency:
up to 93 %

Power: from 4.45 W
SFP: from 1.02 W/l/s

Noise level:
from 11 dBA

EC motor · ErP 2018 · Wi Fi READY

Design



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

Wi Fi READY

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	Rated air flow [m³/h]	Front panel	Ventilation hood type	Control
Vento Expert	**A:** round air duct	**50**	**-1:** flat front panel	**S10:** white plastic 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

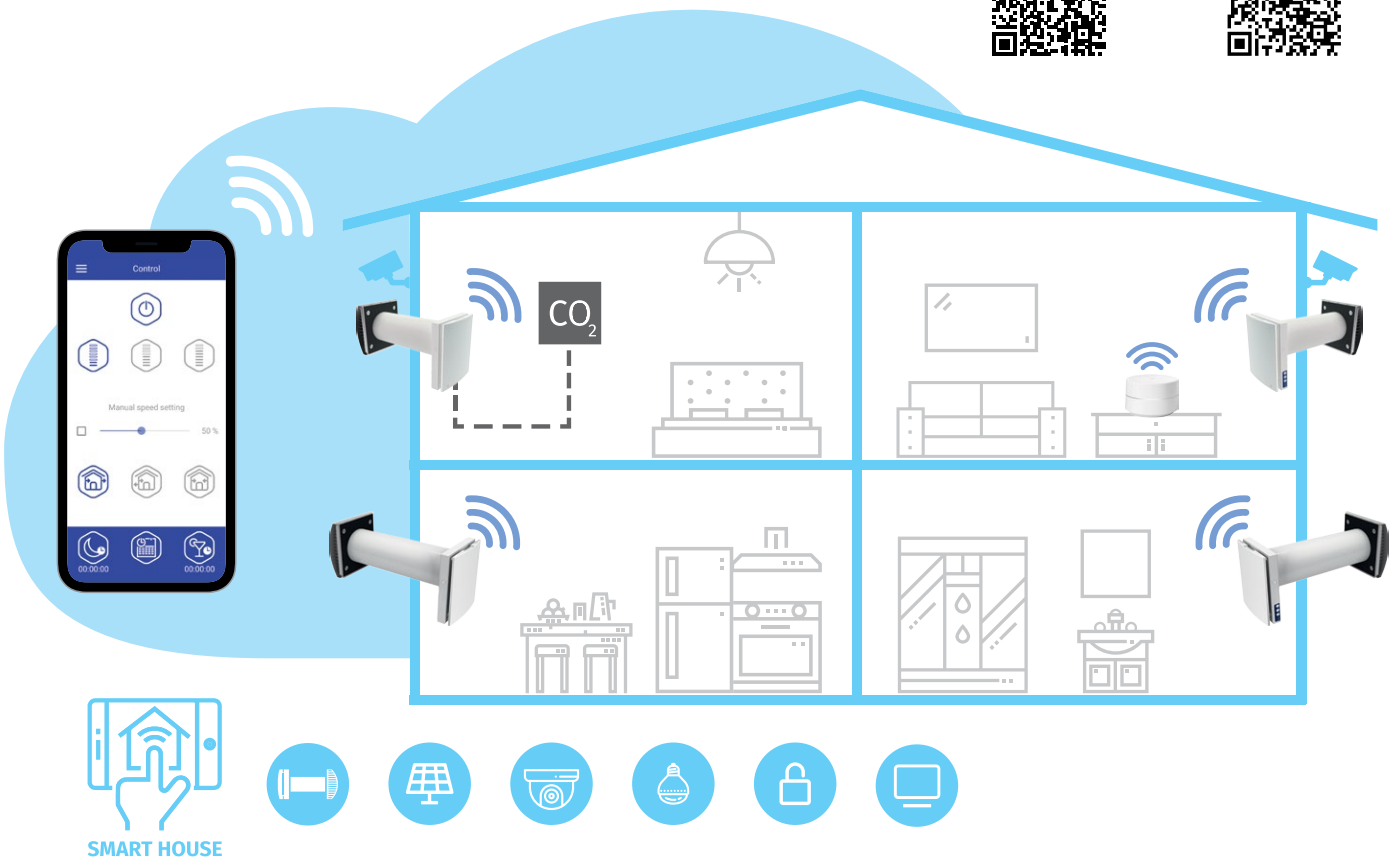
Control

- 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



- **Vento Expert A50-1 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.

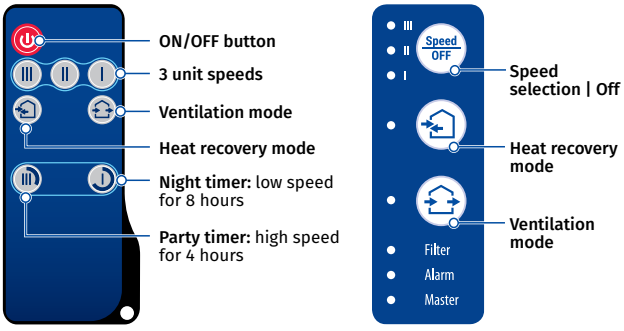
FOR LIVING ROOMS AND BEDROOMS

Vento Expert

FOR KITCHEN AND BATHROOM

Vento Expert Duo

- 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.



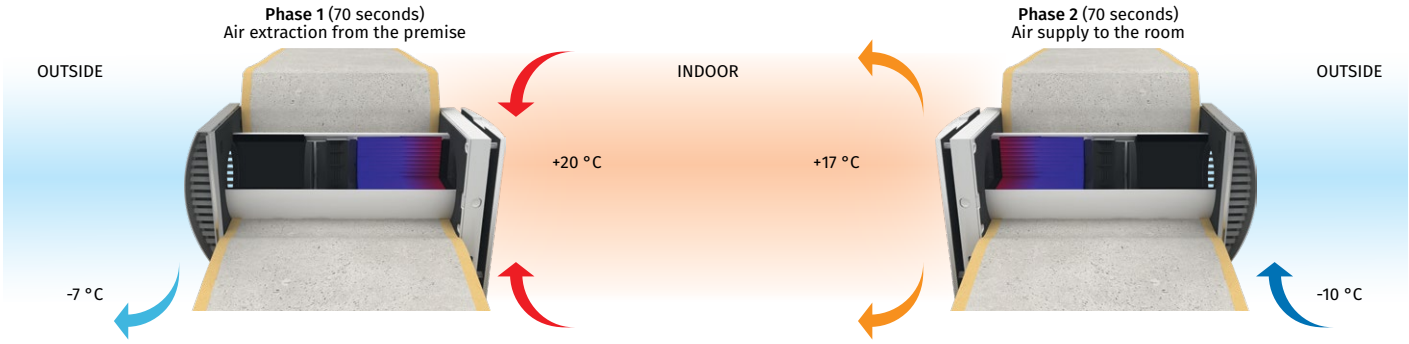
- **Vento Expert** is equipped with a humidity sensor for indoor humidity control. If humidity increases above a set point, the unit boosts to the speed III.

Ordering Information

Part Number	Model	Description
BLAVENTOA50EXPERTV2	Vento Expert A50-1 S10 W V.2	SINGLE ROOM ERV WITH WiFi CONTROL

Energy recovery

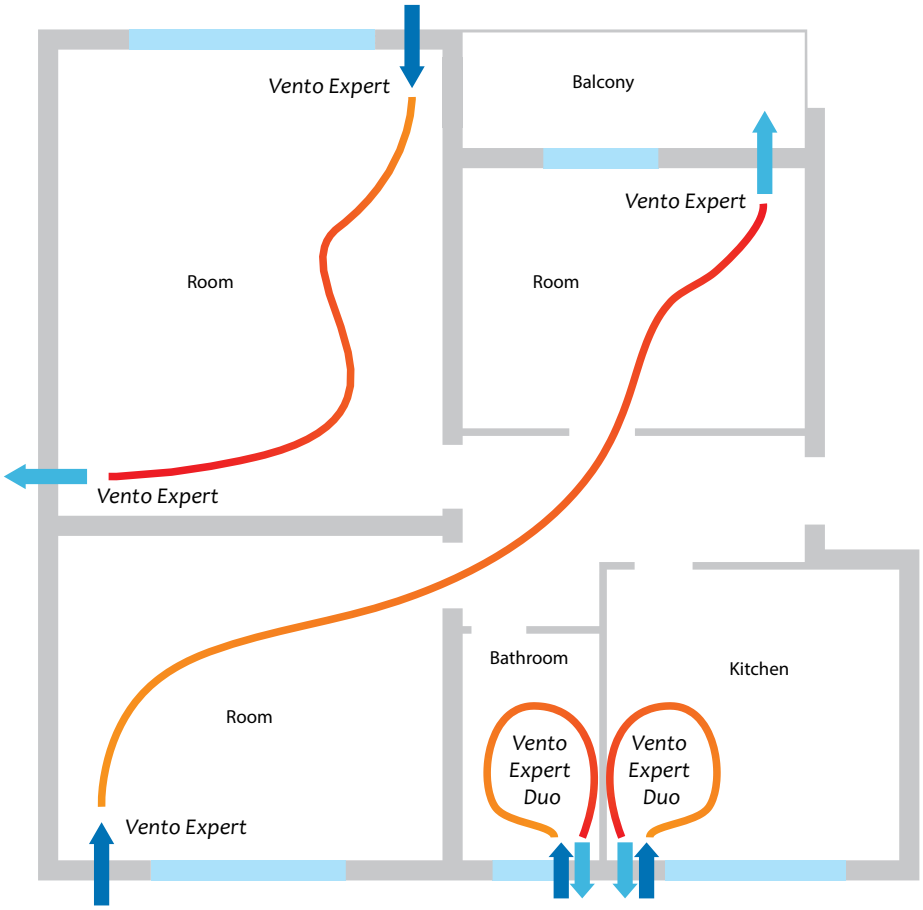
UNIT OPERATING LOGIC IN WINTER PERIOD



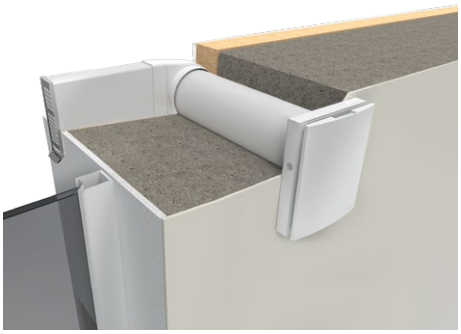
- Warm stale air is extracted from the premise, flows through the ceramic heat exchanger and transfers its heat and moisture to it.
- As the ceramic heat exchanger gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the heat exchanger and absorbs accumulated heat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

Mounting

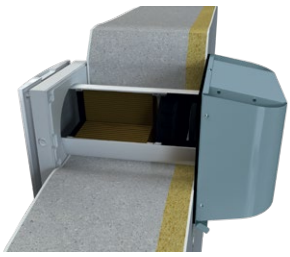
- The unit is designed for through-the-wall installation inside a prepared hole in an outer wall of the building.
- The best ventilation solution is pairwise installation of reverse phase synchronized units. Some units ensure supply of fresh air to the room and the other units extract air from the premise. This way the most efficient balanced ventilation is arranged.
- In case of brand new construction, units are mounted in two stages:
  - Pre-installation of an air duct and an outer ventilation hood at the stage of indoor finishing and outer decorative wall finishing.
  - Completion of the installation before commissioning of a house. It includes installation of the indoor unit with controller and shutters the cartridge, the heat exchanger, the fan and the filters.



Angular mounting into a wallwith standard thickness using
KIT BlauPlast white 160 / KIT BlauPlast chrome 160



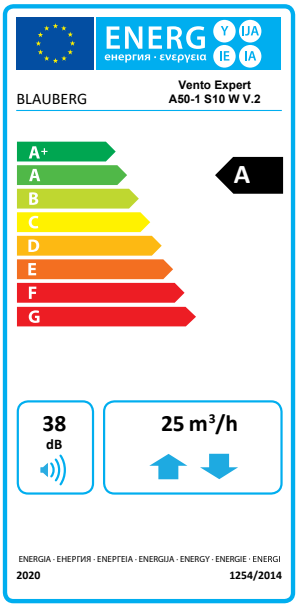
Unit installation example with the hood for thin walls
AH-S grey 160 / AH-S chrome 160



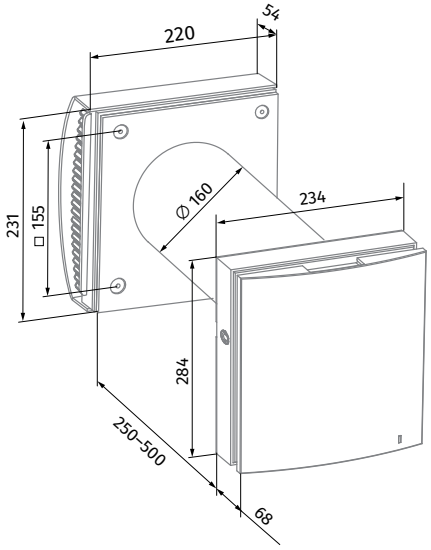
Technical data

Parameters	Vento Expert A50-1 S10 W V.2 Vento Expert A50-1 S W V.2		
Speed	I	II	III
Voltage [V / 50 (60) Hz]		100–240	
Power [W]	4.45	5.08	7.06
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]	2.14	1.22	1.02
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]	20	27	30
Sound pressure level at 3 m in accordance with ISO 3741:2004 [dBA]	11	18	21
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 93	
Ingress protection rating		IP24	

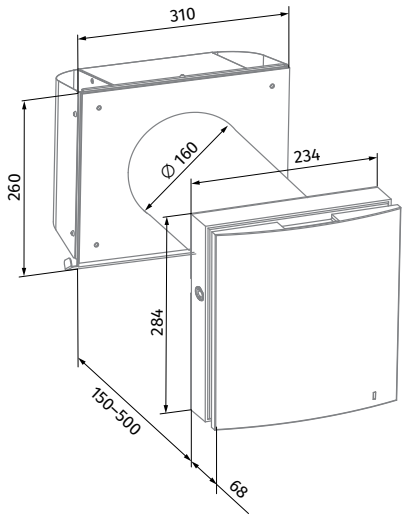
* maximum air flow 40 m³/h



Overall Dimensions [mm]

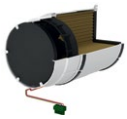


Vento Expert A50-1 S10 W V.2



Vento Expert A50-1 S W V.2
(for thin walls)

Accessories

		Description
Pre-installation Kit Vento Expert A50-1 S10		Pre-installation kit for mounting into walls with standard thickness. Includes: • Air duct • AH-10 white 160 outer ventilation hood • Polystyrene foam plug • Polystyrene foam wedges
Pre-installation Kit Vento Expert A50-1 S		Pre-installation kit for mounting into thin walls. Includes: • Air duct • AH-S chrome 160 outer ventilation hood • Polystyrene foam plug • Polystyrene foam wedges
Completion Kit Vento Expert A50-1 W V.2		Final mounting kit. Includes: • Cartridge with a heat exchanger, a fan and G3 filters • Indoor unit with a controller and shutters • Remote control
ZL1 Vento 160/150		Cartridge with heat regenerator for cold climate
FP Vento Expert A50 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-8 white 160		White painted aluminium outer ventilation hood with frost protection for a cold climate
AH-8 chrome 160		Brushed stainless steel outer ventilation hood with frost protection for a cold climate
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 white 160		Stainless steel ventilation hood, painted white
AH-S chrome 160		Brushed stainless steel ventilation hood
PP 160/0.5		Plastic outer grille with pipe for mounting from indoor

		Description
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
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

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

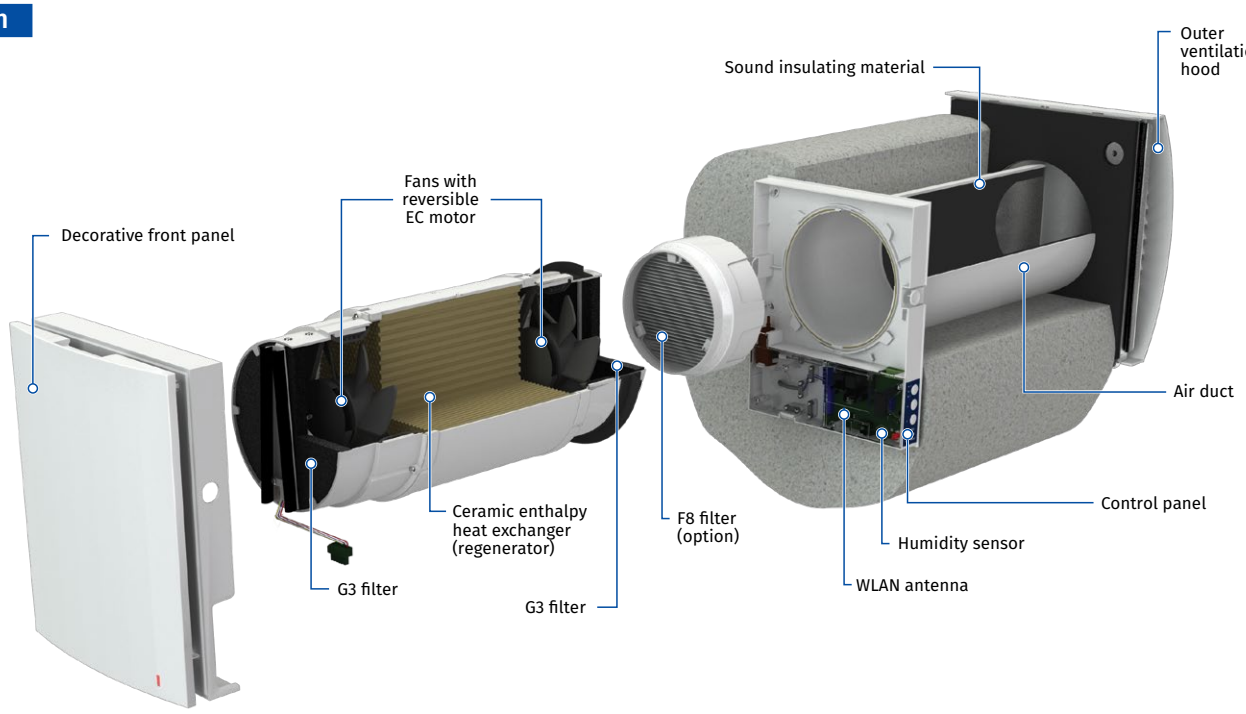
Heat recovery efficiency:
up to 83 %

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

Noise level:
from 13 dBA

EC motor · ErP 2018 · Wi Fi READY

Design



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

Wi Fi READY

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 [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

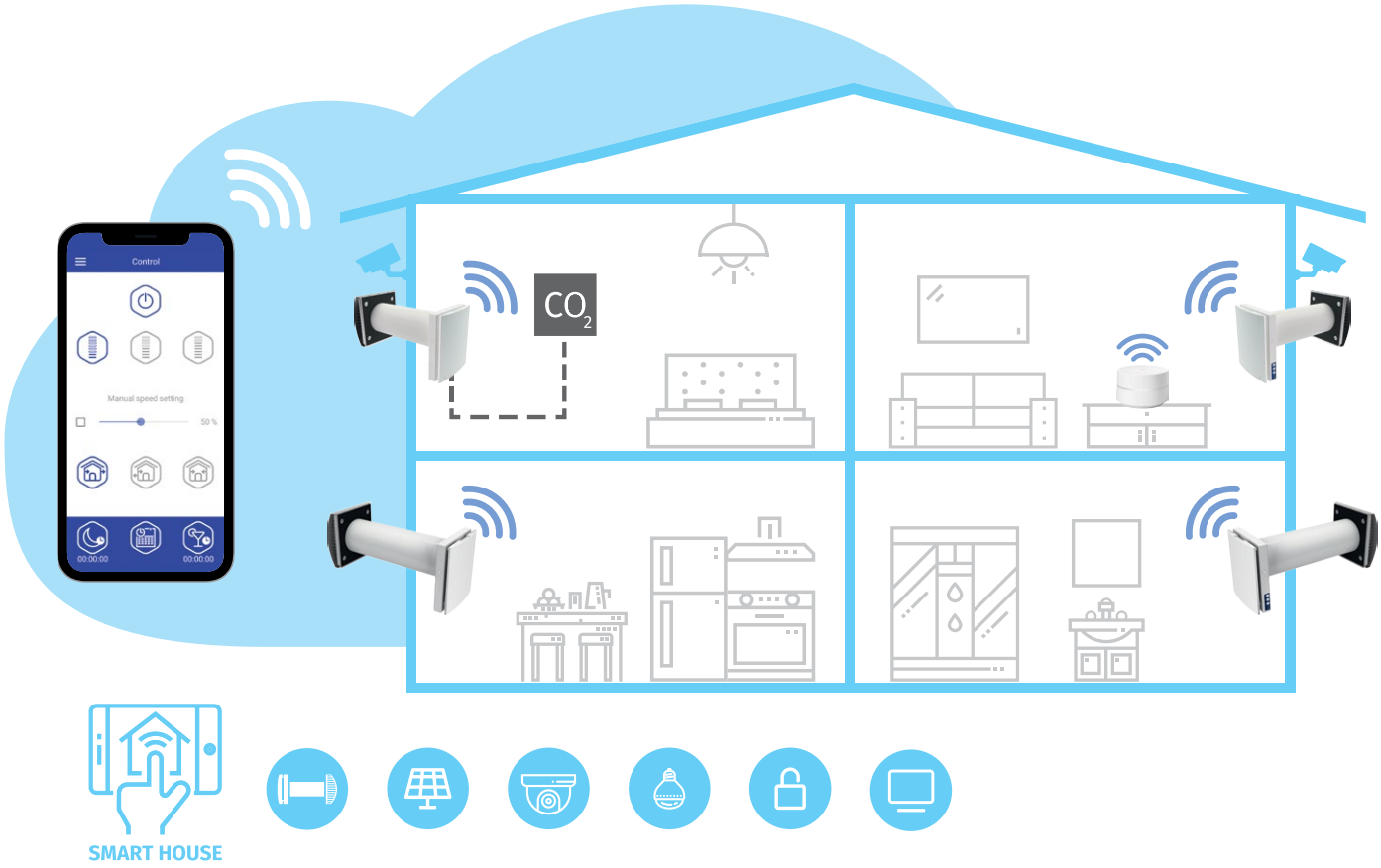
Control

- 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

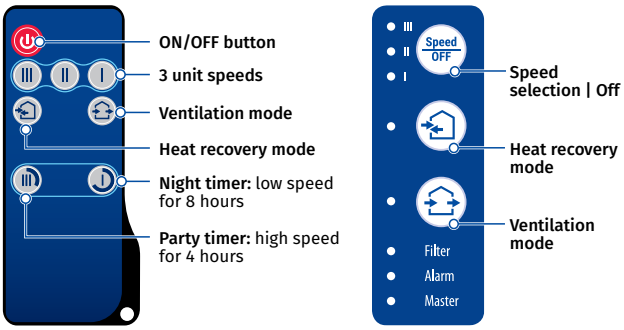
Download on the App Store



- **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.

Vento Expert A100-1 S10 W V.2

- 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.



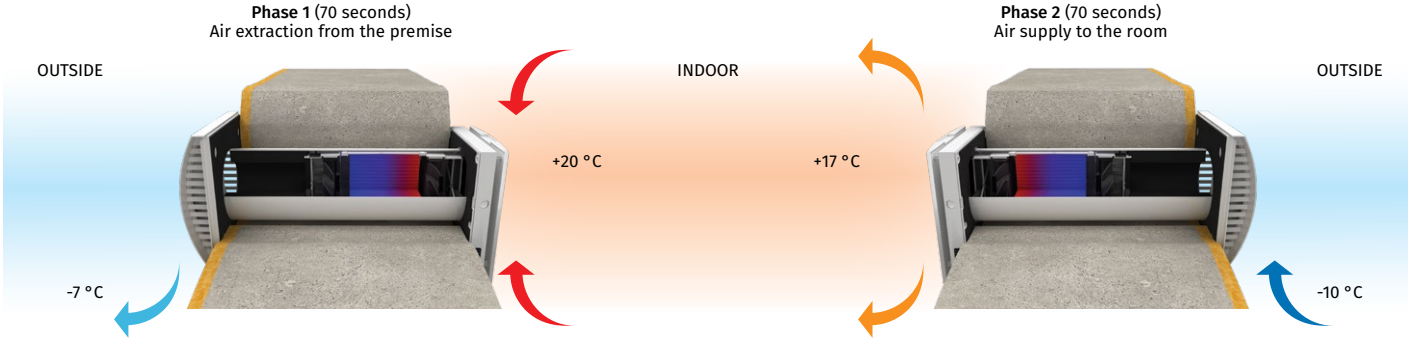
- **Vento Expert A100-1 S10 W V.2** is equipped with a humidity sensor for indoor humidity control. If humidity increases above a set point, the unit boosts to the speed III.

Ordering Information

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

Energy recovery

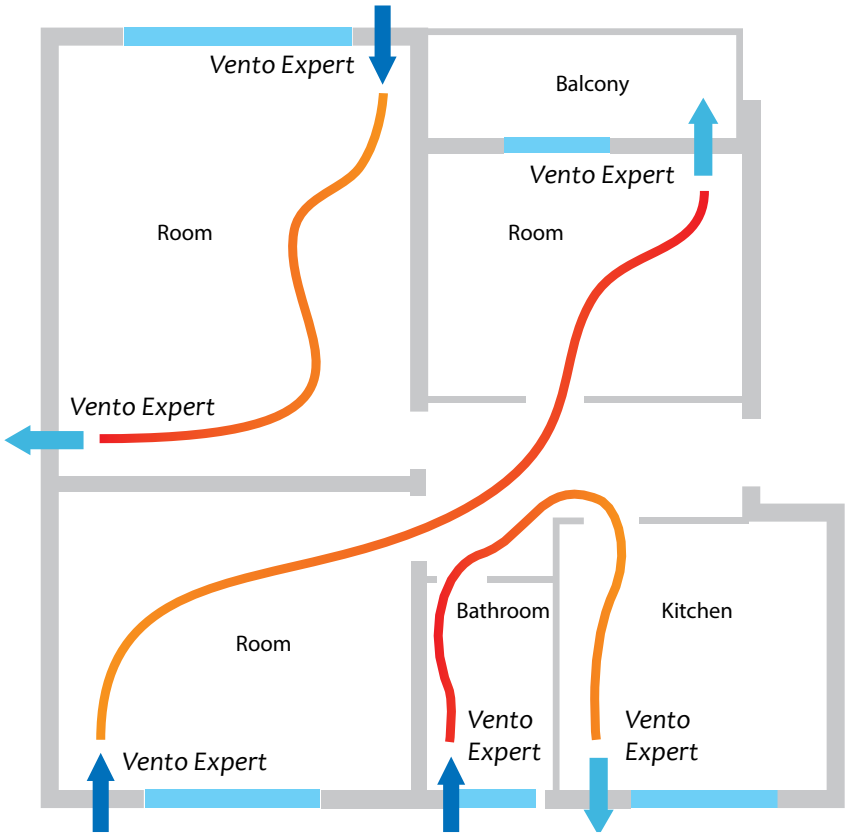
UNIT OPERATING LOGIC IN WINTER PERIOD



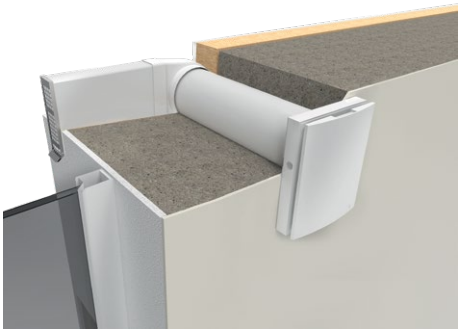
- Warm stale air is extracted from the premise, flows through the ceramic heat exchanger and transfers its heat and moisture to it.
- As the ceramic heat exchanger gets warmed up, the unit switches to the supply mode.
- Clean cold intake air flows through the heat exchanger and absorbs accumulated heat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

Mounting

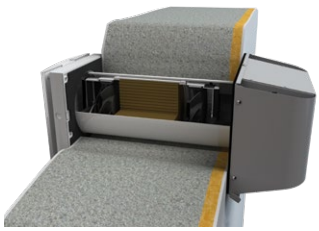
- The unit is designed for through-the-wall installation inside a prepared hole in an outer wall of the building.
- The best ventilation solution is pairwise installation of reverse phase synchronized units. Some units ensure supply of fresh air to the room and the other units extract air from the premise. 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 wallwith standard thickness using
KIT BlauPlast white 160 / KIT BlauPlast chrome 160



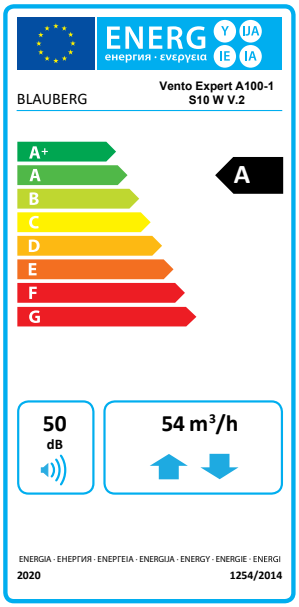
Unit installation example with the hoods for thin walls
AH-S grey 160 / AH-S chrome 160



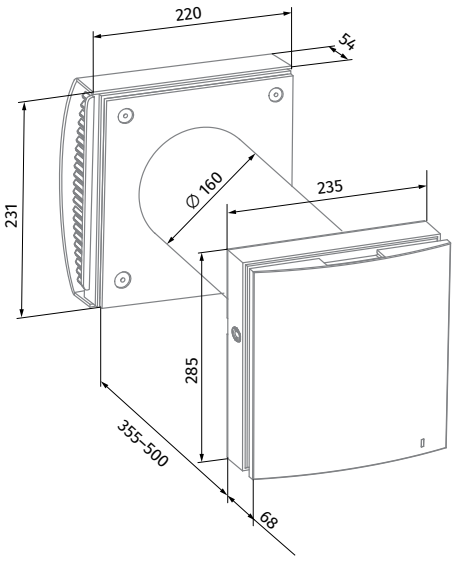
Technical data

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			

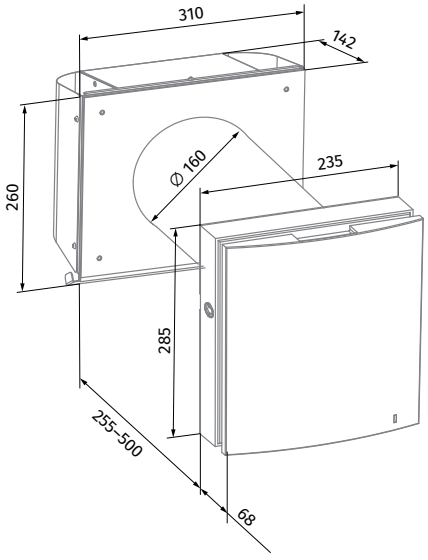
* maximum air flow 82 m³/h



Overall Dimensions [mm]



Vento Expert A100-1 S10 W V.2



Vento Expert A100-1 S W V.2
(for thin walls)

Accessories

		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

		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

FRESHBOX 100 ERV WiFi

Single-room air handling units

Features

- Efficient solution for supply and exhaust ventilation of enclosed spaces.
- Electric preheater or reheater modification available for cold climate conditions.
- Heat exchanger with an enthalpy membrane modification available for humid and hot climate conditions.
- Low energy EC motors.
- Silent operation.
- Supply air purification ensured by two built-in G4 and F8 filters (optionally H13 filter, F8 Carbon).
- Upgradeable with an exhaust duct to provide air extraction from the bathroom.
- Easy installation.
- Compact size.
- Wi-Fi communication
- Controlled by Android or iOS smartphone or tablet over Wi-Fi.

Air flow:
up to 100 m³/h
28 l/s

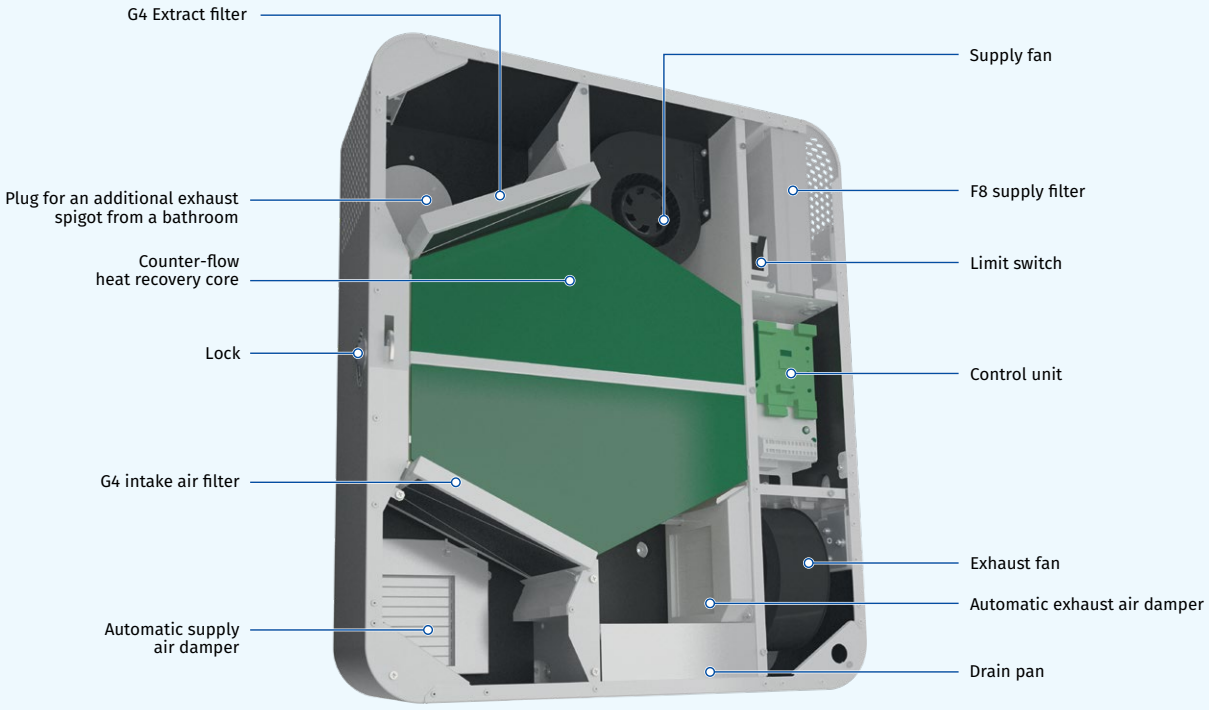
Heat recovery efficiency:
up to 96 %

Design

- Polymer coated metal casing decorated with an acrylic front panel. Heat and noise insulation is ensured by a layer of 10 mm cellular synthetic rubber.
- The front panel provides convenient access for filter maintenance and has a lock for extra security.
- The unit has two ∅ 100 mm pipes for fresh air intake and stale air extraction outside. The third ∅ 100 mm pipe (included in the scope of delivery) can be additionally fitted to the unit to connect the exhaust air duct from the bathroom.

Motor

- The units feature efficient electronically commutated (EC) motors with an external rotor and impellers with forward curved blades. These state-of-the-art-motors are the most advanced solution in energy efficiency today.
- EC motors are characterised with high performance and optimum control across the entire speed range. In addition to that the efficiency of electronically commutated motors reaches very impressive levels of up to 90 %.



Designation key

Series	Heater		Rated air flow [m³/h]	Heat exchanger core type	Control
Freshbox	**_:** no heater **E:** Preheating **E1:** reheating **E2:** Preheating and reheating	–	**100**	**ERV:** energy recovery	**WiFi:** sensor control panel and Wi-Fi communication

Air Dampers

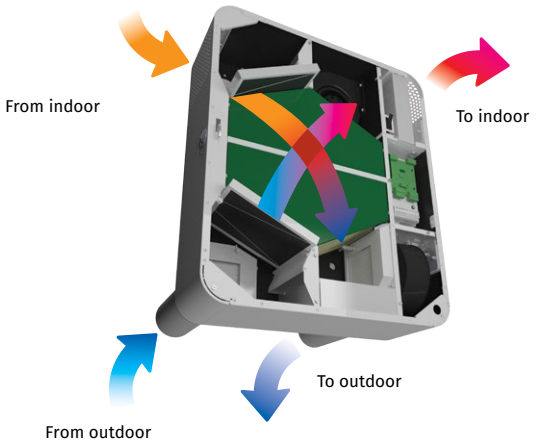
- The unit is equipped with supply and exhaust air dampers which activate automatically to prevent drafts while the unit is off.

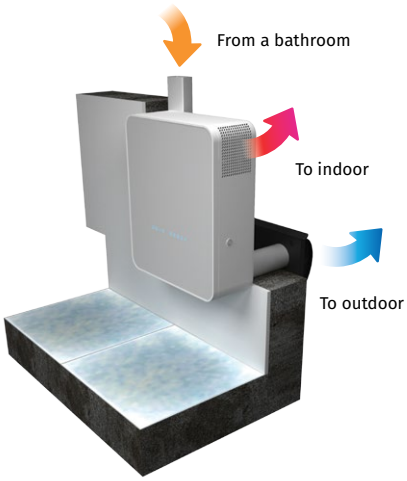
Air Filtration

- Supply air cleaning is provided by the G4 and F8 filters. To meet more stringent air purity requirements the F8 filter can be replaced with an H13 or F8 Carbon Filter (purchased separately). Exhaust air is cleaned by the panel filter G4.

Operating Principle

- **The cold outdoor air** passes through the filters and the heat exchanger and then is delivered to the serviced space by the supply centrifugal fan.
- **Warm stale air from indoors** passes through the filter and the heat exchanger and is discharged outdoors by the centrifugal fan.
- **The supply and exhaust air** flows are fully separated which helps eliminate the possibility of odour or microbial transfer between the streams.





Operating principle with extra spigot for bathroom exhaust ventilation

Heat and Energy Recovery

- The **Freshbox 100 ERV WiFi** units are equipped with a counter-flow energy recovery core with an enthalpy membrane at the core.
  - **In the cold season** the exhaust air heat and moisture are transferred to the supply air stream through the enthalpy membrane reducing the heat losses through ventilation.
  - **In warm season** the heat and humidity of the outdoor air is absorbed by extract air flow through the enthalpy membrane. This way the supply air temperature and humidity decreases and heat recovery reduces operation loads for the air conditioner.

Heaters

PREHEATING

- **Freshbox E-100 ERV WiFi**, **Freshbox E2-100 ERV WiFi** units are equipped with an electric preheater for freeze protection of the heat exchanger.

REHEATING

- **Freshbox E1-100 ERV WiFi**, **Freshbox E2-100 ERV WiFi** units feature an electric reheater to raise the supply air temperature as necessary.

Freeze Protection

- **Freshbox 100 ERV WiFi** features an exhaust air temperature sensor downstream of the heat exchanger which disables the supply fan to let the warm extract air warm up the heat exchanger. After that the supply fan is turned on and the unit reverts to the normal operation mode.
- Overheating protection for **Freshbox E-100 ERV WiFi** and **Freshbox E2-100 ERV WiFi** is implemented with a preheater.

Ordering Information

Part Number	Model	Description
BLAFRESHBOX100	FRESHBOX 100 ERV WiFi	SINGLE ROOM ENERGY RECOVERY WITH WiFi CONTROL

Control

- The unit is equipped with a control panel.
- The remote control is supplied as standard
- Wi-Fi communication.

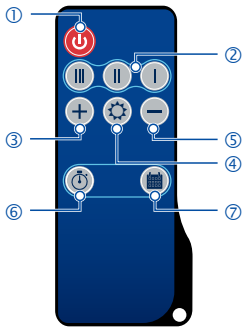
AUTOMATIC FUNCTIONS

	Freshbox 100 ERV WiFi Freshbox E-100 ERV WiFi	Freshbox E1-100 ERV WiFi Freshbox E2-100 ERV WiFi
Speed selection	•	•
Filter replacement indication	•	•
Alarm indication	•	•
Speed setup	•	•
Timer	•	•
Week scheduler	•	•
Reheater enabled/disabled		•
Supply air temperature setup		•
Control with the mobile application Android / iOS	•	•

Download
Android application
Blauberg Freshbox

Download
iOS application
Blauberg Freshbox

REMOTE CONTROL



1 Turning unit on/off
2 Speed selection (Min/Mid/Max)
3 Increasing temperature set point for the reheater (available for the models with a reheater)
4 Turning reheater on/off (available for the models with a reheater)
5 Decreasing temperature set point for the reheater (available for the models with a reheater)
6 Turning timer on/off
7 Activation/deactivation of the scheduled operation mode

CONTROL PANEL

- ON/OFF button
- Speed changeover (down)
- Speed changeover (up)
- Weekly schedule
- Connection to WiFi
- Filter replacement indication
- Alarm indication

Technical Data

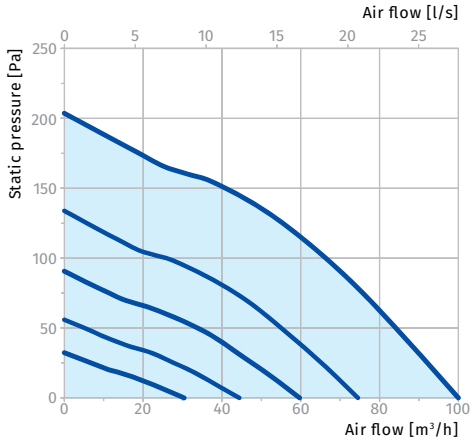
Parameters	Freshbox 100 ERV WiFi					Freshbox E-100 ERV WiFi				
Speed	I	II	III	IV	V	I	II	III	IV	V
Voltage [V / 50 (60) Hz]	1~ 110-240					1~230				
Max. power without heater(s) [W]	20	23	29	37	53	20	23	29	37	53
Preheater power consumption [W]	-					700				
Reheater power consumption [W]	-					-				
Max. current consumption without heater(s) [A]	0.4									
Max. current consumption with heater(s) [A]	-					3.6				
Maximum air flow [m³/h (l/s)]	30 (8)	44 (12)	60 (17)	75 (21)	100 (28)	30 (8)	44 (12)	60 (17)	75 (21)	100 (28)
RPM [min⁻¹]	max 2200									
Sound pressure level at 3 m [dBA]	13	20	27	33	39	13	20	27	33	39
Transported air temperature [°C]	-20...+40									
Casing material	polymer coated steel									
Insulation thickness [mm]	10									
Extract filter	G4									
Supply filter	G4 + F8 (Option: F8 Carbon; H13)									
Connected air duct diameter [mm]	100									
Weight [kg]	31									
Heat recovery efficiency [%]*	96	94	92	89	87	96	94	92	89	87
Heat recovery core type	counter-flow									
Heat exchanger material	enthalpic membrane									
SEC class	A									

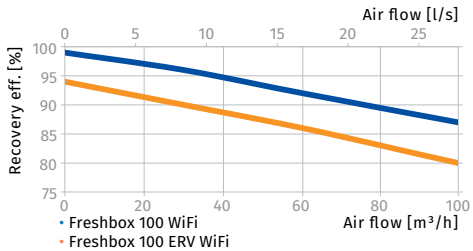
*Heat recovery efficiency is specified in compliance with EN 13141-8.

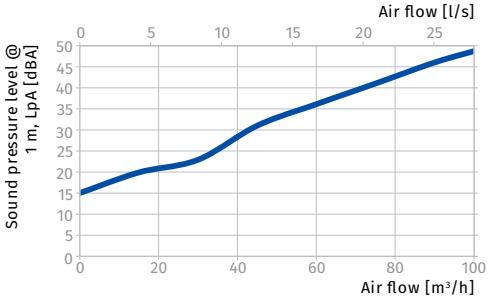
Parameters	Freshbox E1-100 ERV WiFi					Freshbox E2-100 ERV WiFi				
Speed	I	II	III	IV	V	I	II	III	IV	V
Voltage [V / 50 (60) Hz]	1~230									
Max. power without heater(s) [W]	20	23	29	37	53	20	23	29	37	53
Preheater power consumption [W]			-					700		
Reheater power consumption [W]	350									
Max. current consumption without heater(s) [A]	0.4									
Max. current consumption with heater(s) [A]			1.94					5.2		
Maximum air flow [m³/h (l/s)]	30 (8)	44 (12)	60 (17)	75 (21)	100 (28)	30 (8)	44 (12)	60 (17)	75 (21)	100 (28)
RPM [min⁻¹]	max 2200									
Sound pressure level at 3 m [dBA]	13	20	27	33	39	13	20	27	33	39
Transported air temperature [°C]	-20...+40									
Casing material	polymer coated steel									
Insulation thickness [mm]	10									
Extract filter	G4									
Supply filter	G4									
Connected air duct diameter [mm]	100									
Weight [kg]	31									
Heat recovery efficiency [%]*	96	94	92	89	87	96	94	92	89	87
Heat recovery core type	counter-flow									
Heat exchanger material	enthalpic membrane									
SEC class	A									

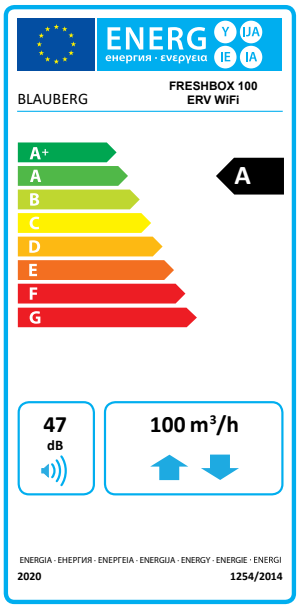
*Heat recovery efficiency is specified in compliance with EN 13141-8.

Sound power level, A-weighted	Total	Octave frequency band [Hz]								Sound pressure level at 3 m, A-filter applied	Sound pressure level at 1 m, A-filter applied
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to environment [dBA]	**4000**	45	40	44	38	33	29	27	22	**28**	**38**

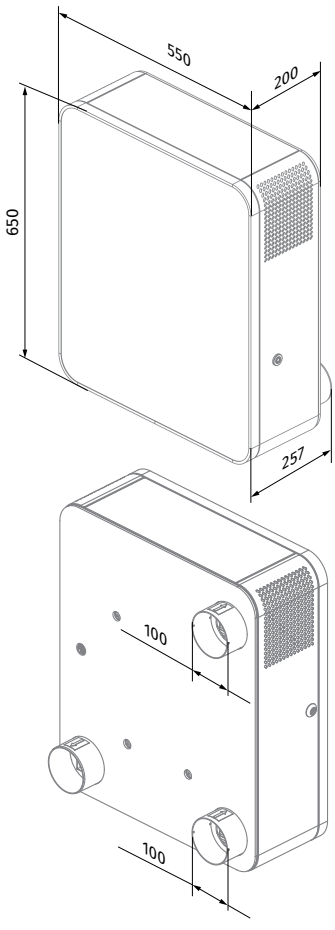








Overall Dimensions [mm]

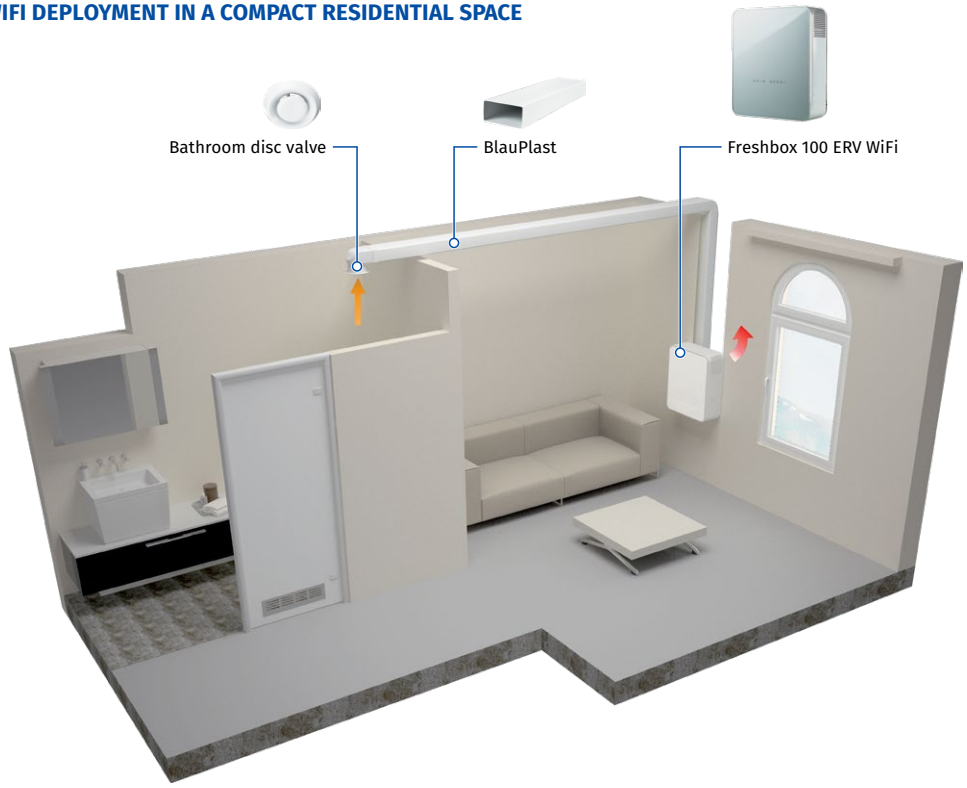


Mounting example

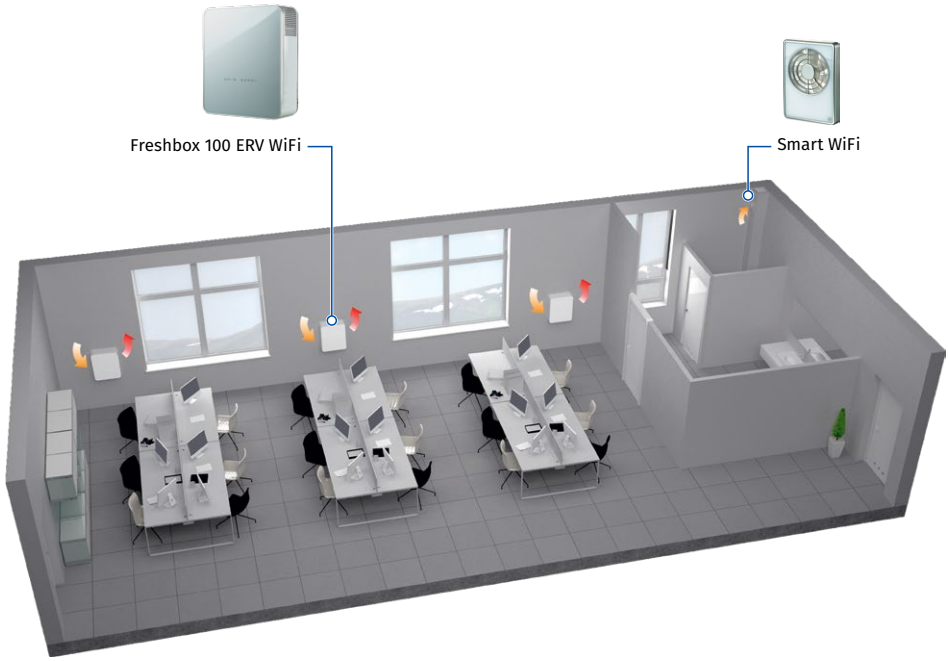
Each space requiring ventilation is equipped with one or several **Freshbox 100 ERV WiFi** units.
A single unit is capable to ensure efficient ventilation in spaces with floor area up to 75 m².

Freshbox 100 ERV WiFi units can be upgraded with a bathroom exhaust air duct. To enable such a configuration the units can be additionally equipped with the optional ∅ 100 mm spigot (supplied as standard).

FRESHBOX 100 ERV WIFI DEPLOYMENT IN A COMPACT RESIDENTIAL SPACE



FRESHBOX 100 ERV WIFI MOUNTING EXAMPLE IN THE OFFICE



Accessories

		Description
MS Freshbox 100 chrome		Mounting kit: • Two ∅ 100 mm air ducts, 500 mm long • Ventilation outer hood made of polished steel • Cardboard template
MS Freshbox 100 white		Mounting kit: • Two ∅ 100 mm air ducts, 500 mm long • Ventilation outer hood, painted white • Cardboard template
AH Freshbox 100 chrome		Ventilation outer hood made of polished steel
AH Freshbox 100 white		Ventilation outer hood, painted white
EH Freshbox 100		Heater to prevent condensate freezing in the drain pipe and outer ventilation hood
FP 193x158x18 G4 PPI		G4 Panel filter
FP 193x158x47 F8		F8 Panel filter
FP 193x158x47 F8 C		F8 Carbon panel filter
FP 193x158x47 H13		H13 Hepa panel filter
HR-S		Humidity sensor
CD-1		CO_2 sensor with LED CO_2 indication and a sensor button for operation mode selection
CD-2		CO_2 Sensor

FRESHBOX 200 ERV WiFi

Single-room air handling units

Features

- Efficient solution for supply and exhaust ventilation of enclosed spaces.
- EC fans with low energy consumption.
- Supply air cleaning is provided by the G4 and F7 filters. Additional air purification due to recirculation. H13 filter is available as an option.
- Upgradeable with an exhaust duct to provide air extraction from the bathroom.
- Easy installation.
- Compact size.
- Controlled by Android or iOS smartphone or tablet over Wi-Fi.

Air flow:
up to 200 m³/h
56 l/s

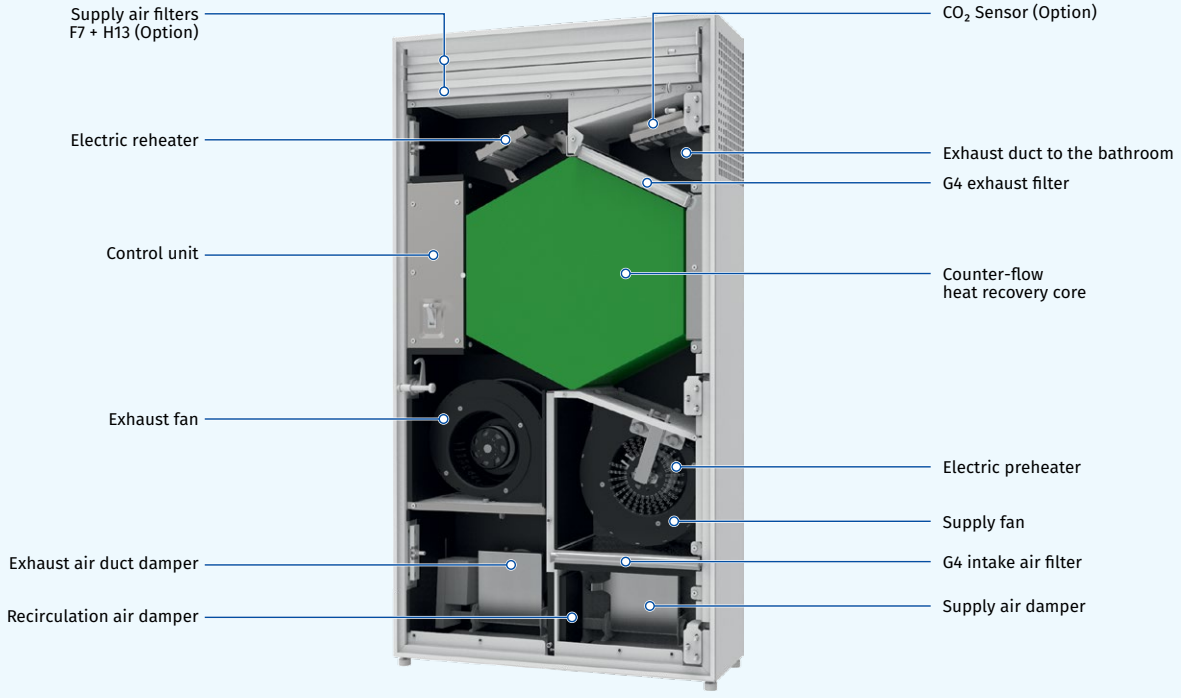
Heat recovery efficiency:
up to 85 %

Design

- The casing is made of polymer coated steel plates.
- The front panel provides convenient access for filter maintenance and has a lock for extra security.
- The unit has two ∅ 100 mm pipes for fresh air intake and stale air extraction outside. The third ∅ 100 mm pipe (included in the scope of delivery) can be additionally fitted to the unit to connect the exhaust air duct from the bathroom.
- Available modifications with an integrated preheater and reheater for cold climate applications.

Motor

- The units feature efficient electronically commutated (EC) motors with an external rotor and impellers with forward curved blades. These state-of-the-art motors are the most advanced solution in energy efficiency today.
- EC motors are characterised with high performance and optimum control across the entire speed range. In addition to that the efficiency of electronically commutated motors reaches very impressive levels of up to 90 %.



Designation key

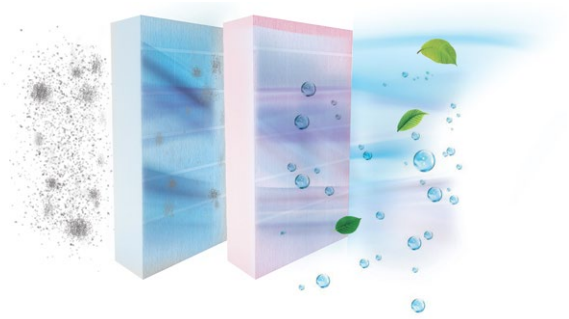
Model	Heater		Rated air flow [m³/h]	Heat exchanger type	Control
Freshbox	**_:** no heater **E:** Preheating **E1:** reheating **E2:** Preheating and reheating	–	**200**	**ERV:** energy recovery	**WiFi:** sensor control panel and Wi-Fi communication

Air Dampers

- The unit is equipped with supply and exhaust air dampers which activate automatically to prevent drafts while the unit is off.

Air Filtration

- Supply air cleaning is provided by the G4 and F7 filters. To meet more stringent air purity requirements the F7 filter can be replaced with an H13 Filter (purchased separately).
- Exhaust air is cleaned by the panel filter G4.



Heaters

PREHEATING

- **Freshbox E-200 ERV WiFi, Freshbox E2-200 ERV WiFi** units are equipped with an electric preheater for freeze protection of the heat exchanger.

REHEATING

- **Freshbox E1-200 ERV WiFi, Freshbox E2-200 ERV WiFi** units feature an electric reheater to raise the supply air temperature as necessary.

Freeze Protection

- The **Freshbox 200 ERV WiFi** features an exhaust air temperature sensor downstream of the heat exchanger which disables the supply fan to let the warm extract air warm up the heat exchanger. Then the supply fan is turned on and the unit reverts to normal operation.
- Freeze protection for **Freshbox E-200 ERV WiFi** and **Freshbox E2-200 ERV WiFi** is implemented with an electric preheater.

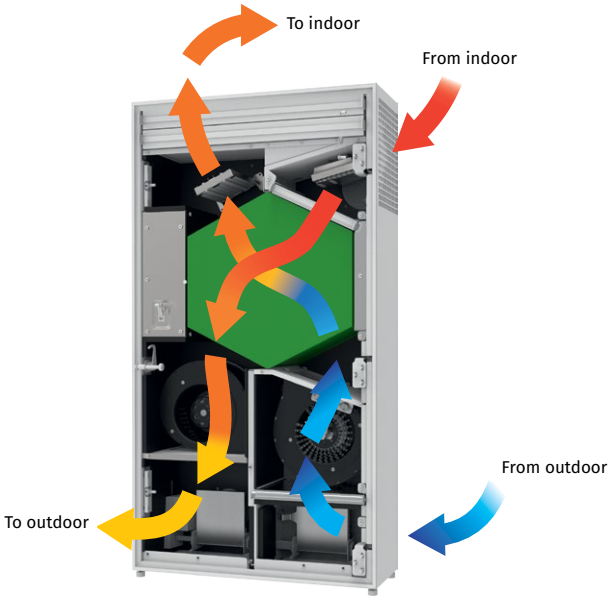
Heat and Energy Recovery

- The unit is equipped with a counter-flow energy recovery core with an enthalpy membrane at the core.
  - **In the cold season** the exhaust air heat and moisture are transferred to the supply air stream through the enthalpy membrane reducing the heat losses through ventilation.
  - Consequently, it is the intake air heat and moisture transferred to the extract air stream through the enthalpy membrane **in the warm season**. This allows for a considerable reduction of the supply air temperature and humidity which, in turn, reduces the air conditioning load.

Operating Principle

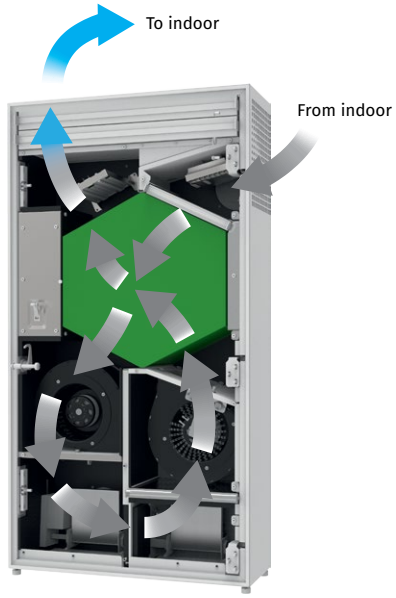
HEAT RECOVERY OPERATION MODE

- **The cold outdoor air** passes through the filters and the heat exchanger and then is delivered to the serviced space by the supply centrifugal fan.
- **Warm stale air** from indoors passes through the filter and the heat exchanger and is discharged outdoors by the centrifugal fan.
- **The supply and exhaust air** flows are fully separated which helps eliminate the possibility of odour or microbial transfer between the streams.



RECIRCULATION OPERATION MODE

- The supply and exhaust air dampers are closed. the recirculation damper is open The room air circulates through the filters. Then it is returned back to the room purified.



Ordering Information

Part Number	Model	Description
BLAFRESHBOX200	FRESHBOX 200 ERV WiFi	SINGLE ROOM ENERGY RECOVERY WITH WiFi CONTROL

Control

- The unit is equipped with a control panel.
- The remote control is supplied as standard
- Wi-Fi communication.

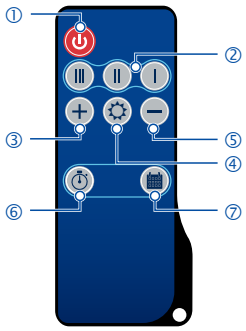
AUTOMATIC FUNCTIONS

	Freshbox 200 ERV WiFi Freshbox E-200 ERV WiFi	Freshbox E1-200 ERV WiFi Freshbox E2-200 ERV WiFi
Speed selection	•	•
Filter replacement indication	•	•
Alarm indication	•	•
Speed setup	•	•
Timer	•	•
Week scheduler	•	•
Reheater enabled/disabled		•
Supply air temperature setup		•
Control with the mobile application Android / iOS	•	•

Download
Android application
Blauberg Freshbox

Download
iOS application
Blauberg Freshbox

REMOTE CONTROL



1 Turning unit on/off
2 Speed selection (Min/Mid/Max)
3 Increasing temperature set point for the reheater (available for the models with a reheater)
4 Turning reheater on/off (available for the models with a reheater)
5 Decreasing temperature set point for the reheater (available for the models with a reheater)
6 Turning timer on/off
7 Activation/deactivation of the scheduled operation mode

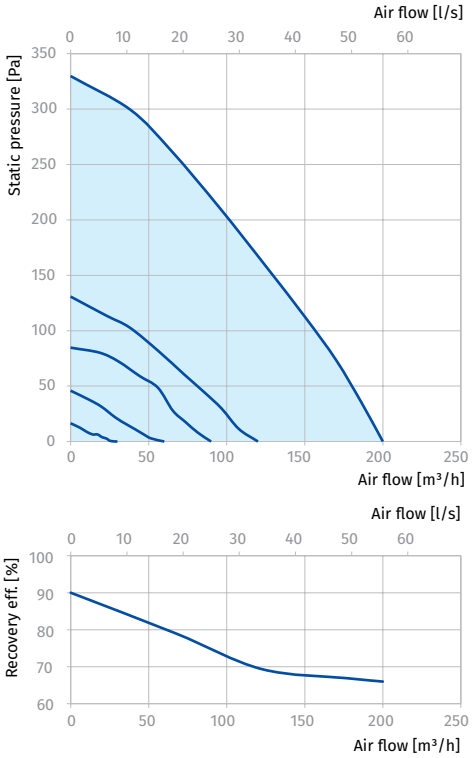
CONTROL PANEL

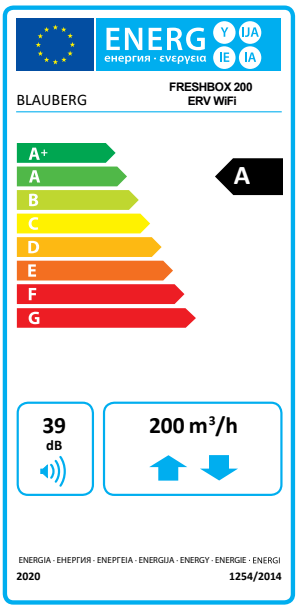
- ON/OFF button
- Speed changeover (down)
- Speed changeover (up)
- Weekly schedule
- Connection to WiFi
- Filter replacement indication
- Alarm indication

Technical Data

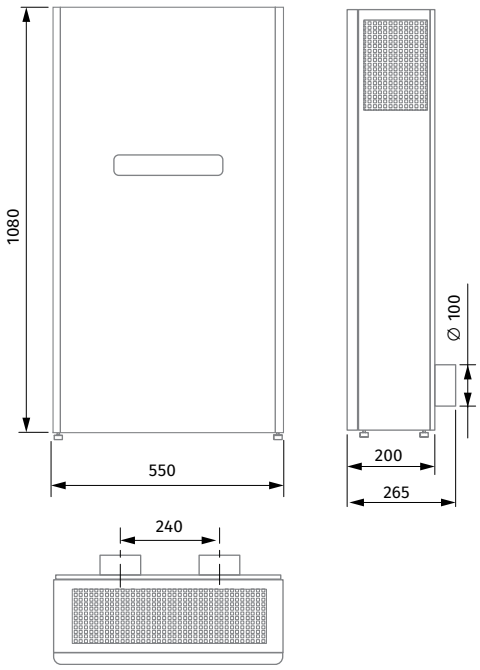
Parameters	Freshbox 200 ERV WiFi					Freshbox E-200 ERV WiFi					Freshbox E1-200 ERV WiFi					Freshbox E2-200 ERV WiFi				
Speed	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V	I	II	III	IV	V
Voltage [V / 50 (60) Hz]	1~230																			
Max. power without heater(s) [W]	10	15	25	44	134	10	15	25	44	134	10	15	25	44	134	10	15	25	44	134
Preheater power consumption [W]			–					650					–					650		
Reheater power consumption [W]			–					–					700					700		
Max. current consumption with heater(s) [A]			1					4					4.2					7.2		
Maximum air flow [m³/h (l/s)]	30 (8)	60 (17)	90 (25)	120 (33)	200 (56)	30 (8)	60 (17)	90 (25)	120 (33)	200 (56)	30 (8)	60 (17)	90 (25)	120 (33)	200 (56)	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	12	22	30	36	45	12	22	30	36	45	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	85	81	75	68	66	85	81	75	68	66	85	81	75	68	66
Heat recovery core type	counter-flow																			
Heat recovery core material	enthalpic membrane																			
SEC class	A																			

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





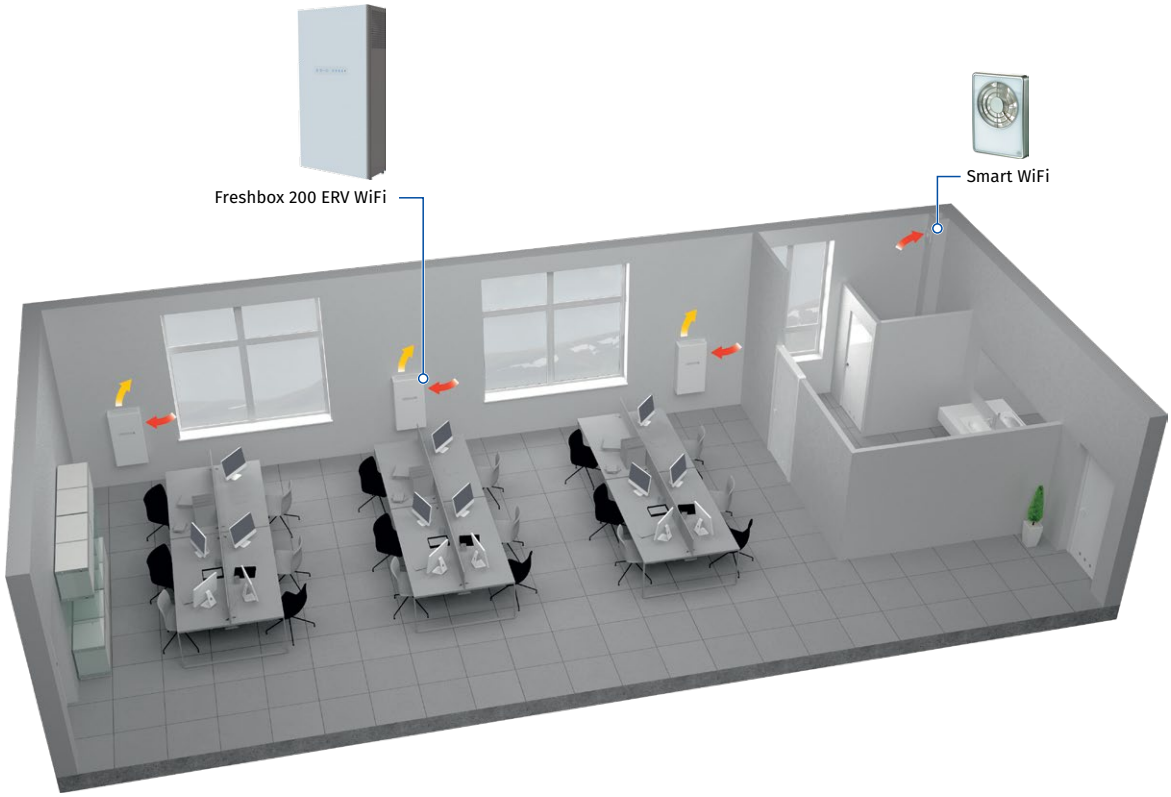
Overall Dimensions [mm]



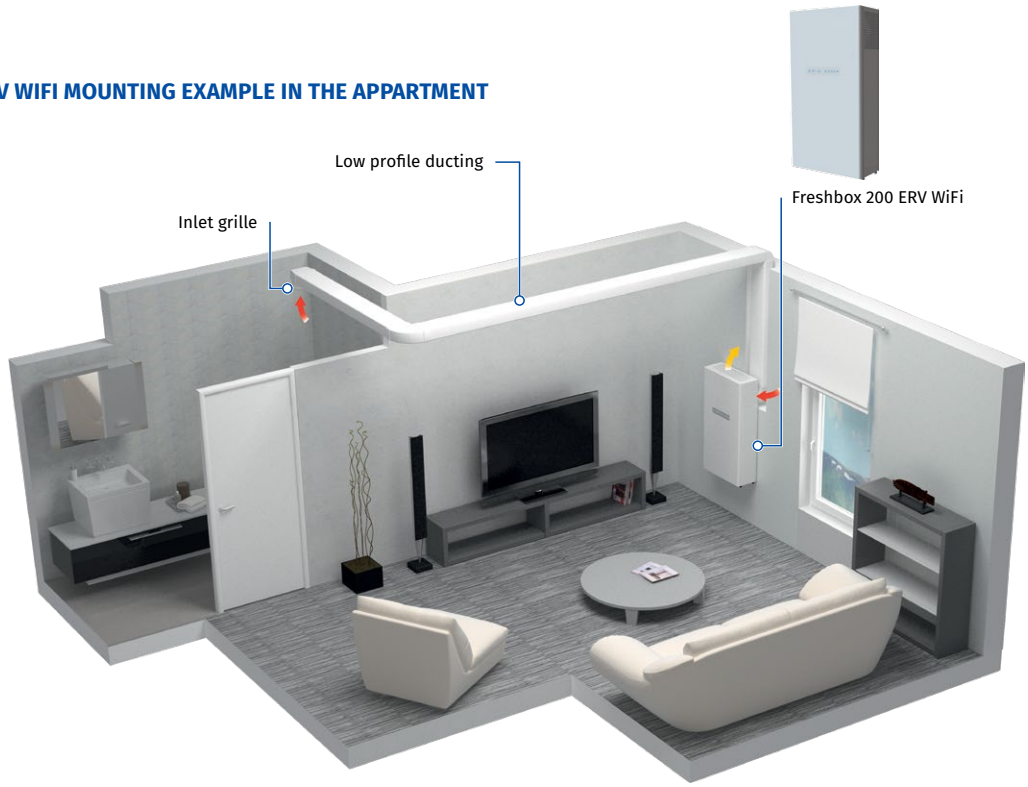
Mounting Example

Each space requiring ventilation is equipped with one or several **Freshbox 200 ERV WiFi** units.
Can be upgraded with a bathroom exhaust air duct. To enable such a configuration the units can be additionally equipped with the optional ∅ 100 mm spigot (supplied as standard).

FRESHBOX 200 ERV WIFI MOUNTING EXAMPLE IN THE OFFICE



FRESHBOX 200 ERV WIFI MOUNTING EXAMPLE IN THE APPARTMENT



Accessories

		Description
MS Freshbox 200 chrome		Mounting kit: • Two ∅ 100 mm air ducts, 500 mm long • Ventilation outer hood made of polished steel • Cardboard template
MS Freshbox 200 white		Mounting kit: • Two ∅ 100 mm air ducts, 500 mm long • Ventilation outer hood, painted white • Cardboard template
AH Freshbox 200 chrome		Ventilation outer hood made of polished steel
AH Freshbox 200 white		Ventilation outer hood, painted white
FP 201x162x20 G4		Exhaust G4 cassette filter
FP 243x162x20 G4		Supply G4 cassette filter
FP 502x162x40 F7		Supply F7 cassette filter
FP 502x162x40 H13		Supply HEPA H13 cassette filter
CD-1		CO_2 sensor with LED CO_2 indication and a sensor button for operation mode selection
CD-2		CO_2 Sensor

FRESHBOX 110

Decentralized supply and exhaust unit with heat recovery

Features

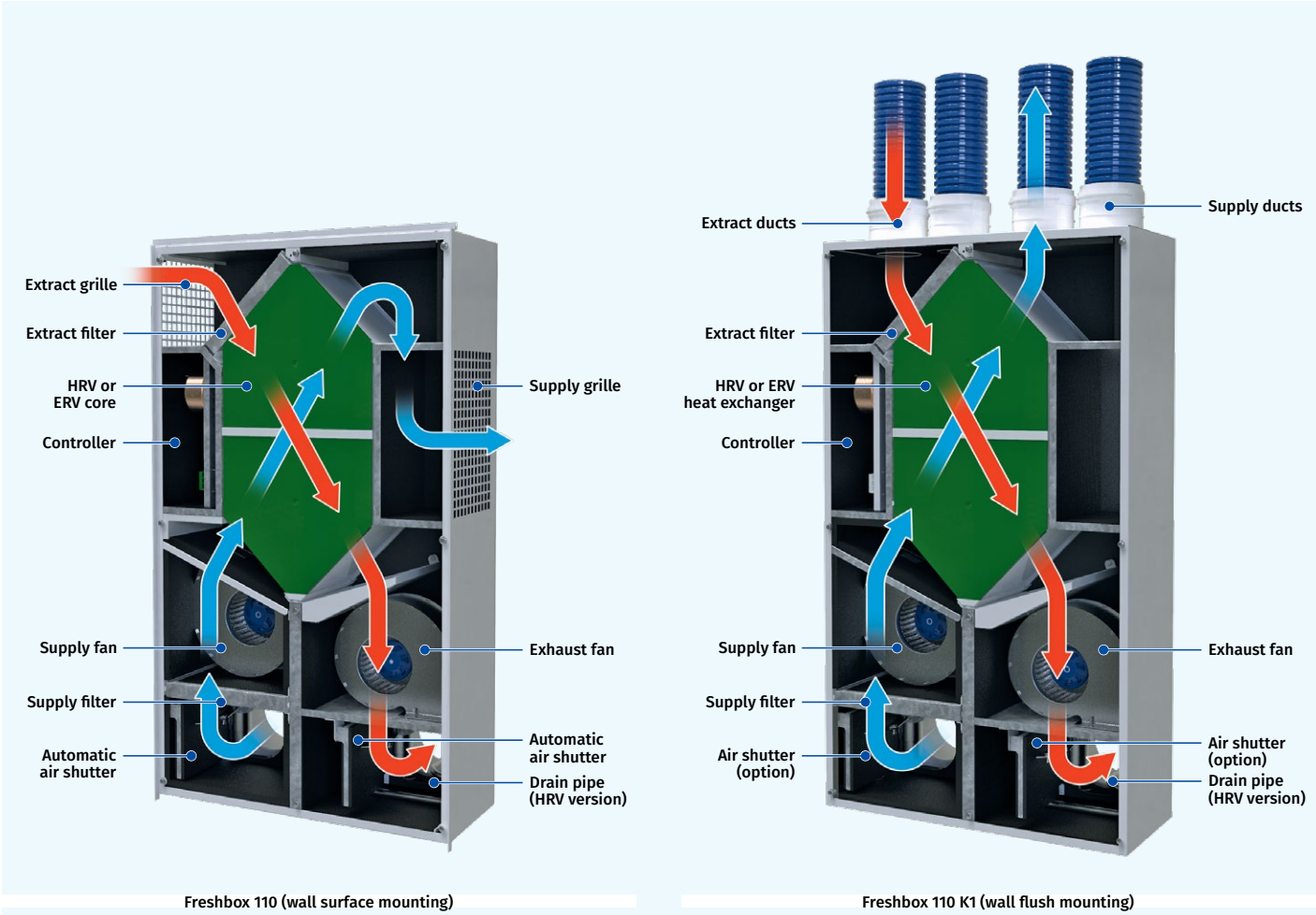
- High efficiency ventilation of a single room or a small appartment.
- Flush or surface mounting option.
- Optional connection of supply and extract 75 mm semi-rigid air ducts for flush mounted Freshbox 110 K1 unit.
- Optional connection of 100 mm extract air duct for surface mounted Freshbox 110 unit.
- Low noise level from 10 dB(A) at 3 m.
- High level of wind protection.
- Clean air with an ISO ePM1 65% / F7 supply filter.
- Easy installation

Air flow:
up to 100 m³/h

Heat recovery efficiency:
up to 93 %

Noise level:
from 10 dBA

Design



Freshbox 110 (wall surface mounting)

Freshbox 110 K1 (wall flush mounting)

Designation key			
Model	**Rated air flow [m³/h]**	**Mounting**	**Heat exchanger type**
Freshbox: decentralized ventilation unit	**110**	**_:** surface mounting **K1:** flush mounting	**_:** heat recovery **ERV:** heat and humidity recovery

Casing

- The casing is made of sheet metal, painted white, with a layer of heat and sound insulation. The modern design allows Freshbox 110 to fit harmoniously into any interior. The front panel opens easily for filter maintenance. The unit is equipped with two 100 mm spigots for air intake and exhaust.

Air dampers

- An automatic supply and axhaust air dampers are provided to prevent drafts when the unit is switched off.

Fans

- The unit is equipped with high-efficient electronically commutated (EC) motors with an external rotor equipped with impellers with forward-curved blades. Such motors are currently the most advanced solution in the field of energy saving. EC motors are characterized by high performance and optimal control over the entire range of speeds. The undoubted advantage of electronically commutated motors is high efficiency (up to 90%).

Air filtration

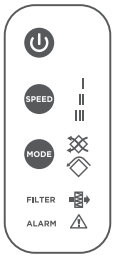
- Supply air is cleaned by a Coarse 90% / G4 cassette filter. An ePM1 65 % / F7 filter can be installed as an option.
- Extract air purification is performed by a Coarse 90% / G4 cassette filter.

Heat exchanger

- Freshbox 110 units are equipped with a counter-flow heat exchanger.
- Freshbox 110 ERV units are equipped with a heat exchanger, which is made of enthalpy membrane and transfers heat and moisture.
  - **In the cold season** the extract air heat and moisture are transferred to the supply air stream through the enthalpy membrane reducing the heat losses through ventilation.
  - **In the warm season**, the heat and moisture of fresh intake air are transferred through the enthalpy membrane to the extract air. This allows for a considerable reduction of the supply air temperature and humidity which, in turn, reduces the air conditioning load.

Automation and control

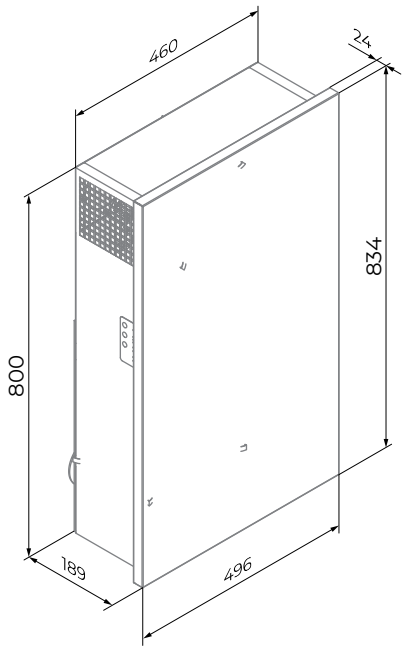
- Control panel on the side surface of the unit.



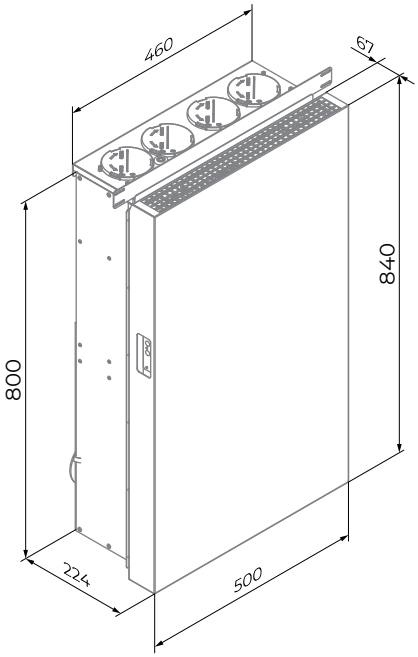
FUNCTIONS:

- On / off
- Speed switching
- Heat recovery mode
- Summer cooling mode
- Filter maintenance indication
- Alarm indication

Overall Dimensions [mm]



Freshbox 110 (wall surface mounting)



Freshbox 110 K1 (wall flush mounting)

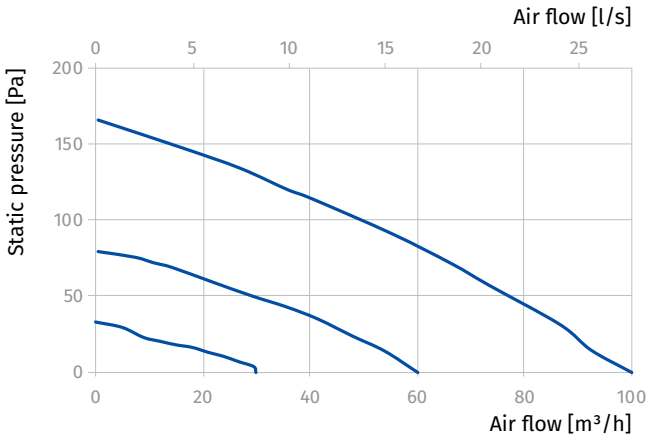
Ordering Information

Part Number	Model	Description
BLA FRESHBOX 110	FRESHBOX 110	Decentralized supply and exhaust wall unit with heat recovery

Technical Data

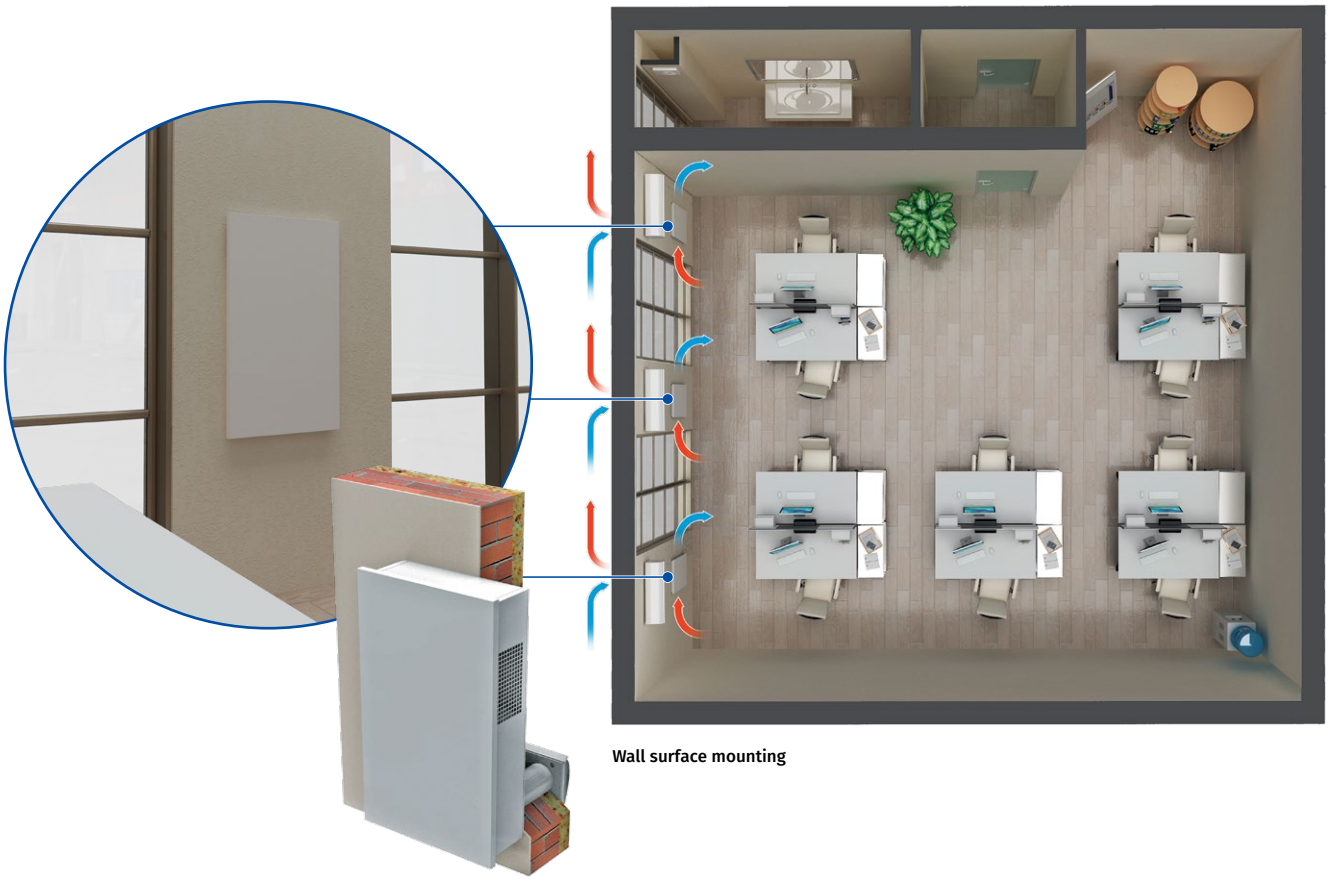
	Freshbox 110			Freshbox 110 K1			Freshbox 110 ERV			Freshbox 110 K1 ERV		
Speed	1	2	3	1	2	3	1	2	3	1	2	3
Air flow [m³/h]	30	60	100	30	60	100	30	60	100	30	60	100
Voltage [V / 50-60 Hz]	1~230			1~230			1~230			1~230		
Power [W]	10	15	31	10	15	31	10	15	31	10	15	31
Max current [A]	0.26			0.26			0.26			0.26		
RPM [min⁻¹]	3200			3200			3200			3200		
Sound power level L_{WA} to environment [dB(A)]	31	41	51	31	41	51	31	41	51	31	41	51
Sound pressure level LpA to environment at 1 m distance [dBA]	20	30	40	20	30	40	20	30	40	20	30	40
Sound pressure level LpA to environment at 3 m distance [dBA]	10	21	31	10	21	31	10	21	31	10	21	31
Operating temperature [°C]	−15...+40			−15...+40			−15...+40			−15...+40		
Case material	polymer coated steel			polymer coated steel, galvanized steel			polymer coated steel			polymer coated steel, galvanized steel		
Insulation [mm]	10			10			10			10		
Extract filter ISO 16890 / EN 779:2012	Coarse 90% / G4			Coarse 90% / G4			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			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			2×100 mm + optional 1×100 mm			2×100 mm + optional 4×75 mm		
Weight [kg]	20			23			20			23		
Heat recovery efficiency [%]*	93	87	84	93	87	84	85	80	72	85	80	72
Humidity recovery efficiency [%]*	–	–	–	–	–	–	45	39	29	45	39	29
Heat exchanger type	counter–flow			counter–flow			counter–flow			counter–flow		
Heat exchanger material	polystyrene			polystyrene			enthalpic			enthalpic		
SEC class	A			A			A			A		

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

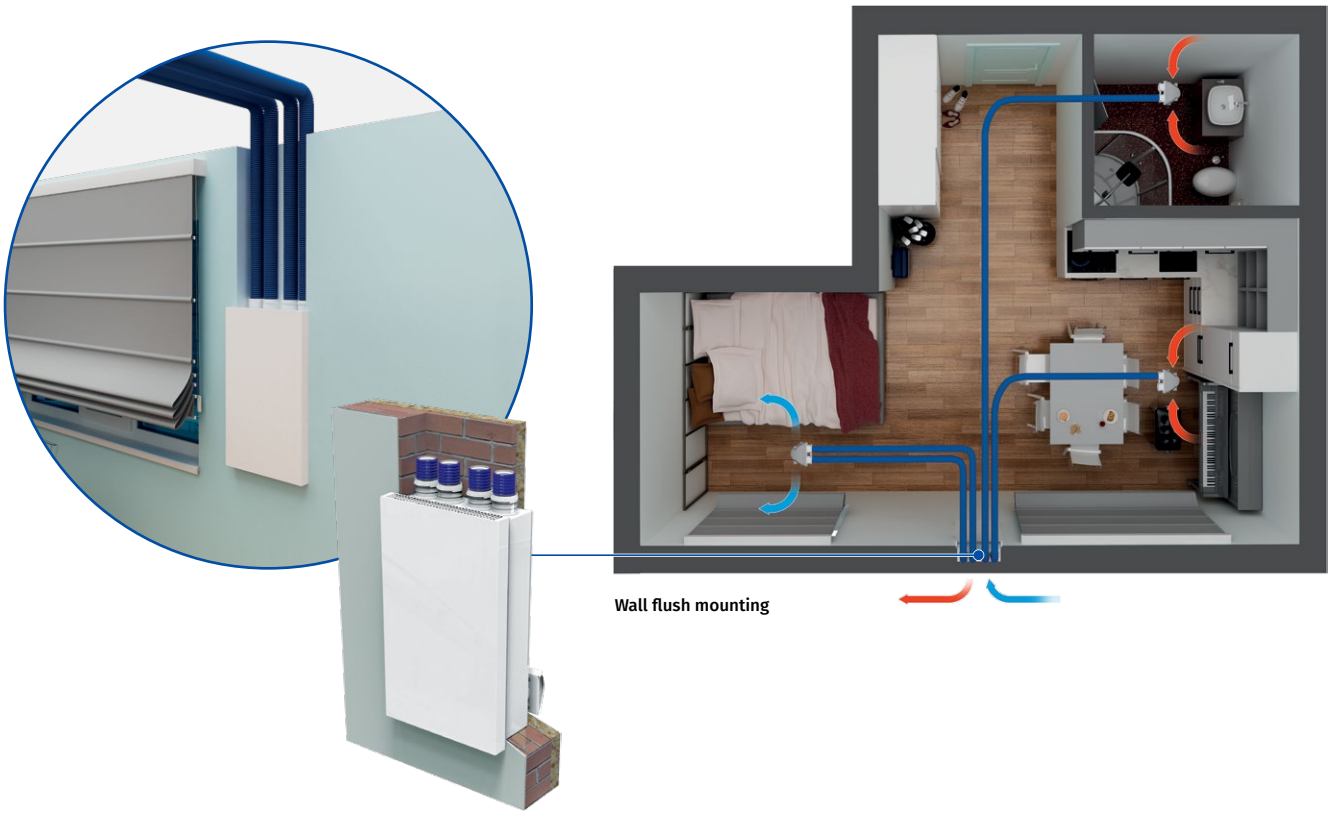


SINGLE-ROOM UNITS WITH HEAT RECOVERY

Mounting



Wall surface mounting



Wall flush mounting

Accessories

		Description
Extract filter		FP 176x160x22 Coarse 90% / G4
Supply filter		FP 203x150x22 Coarse 90% / G4
Supply filter option		FP 203x150x22 ePM1 65% / F7
Mounting kit		MS Freshbox 110
Mounting kit		MS Freshbox 110 white
Mounting kit		MS Freshbox 110 chrome
Mounting kit for corner mounting of the grille in the window opening		MS1 Freshbox 110
Mounting kit for corner mounting of the grille in the window opening		MS1 Freshbox 110 white
Mounting kit for corner mounting of the grille in the window opening		MS1 Freshbox 110 chrome
Supply and exhaust hood		AH Freshbox 110
Supply and exhaust hood		AH Freshbox 110 white
Supply and exhaust hood		AH Freshbox 110 chrome
CO_2 sensor		CD-1
CO_2 sensor		CD-2

		Description
CO_2 sensor		CD-3
Humidity sensor		HR-S
Heater		EH Freshbox
Air ducts with lock rings		RKF 75 kit (4 pcs.)

CIVIC EC LB V.2

Single-room air handling units

Features

- The **CIVIC EC LB V.2** units are designed for singleroom ventilation of schools, offices and other public and commercial premises. Offer the ideal simple and efficient ventilation solutions for existing and renovated buildings and require no layout of air ducts.
- Efficient supply and extract ventilation for separate premises.
- EC motors with low energy consumption.
- Low-noise operation.
- Simple mounting.

Air flow:
up to 1240 m³/h
344 l/s

Heat recovery efficiency:
up to 96 %

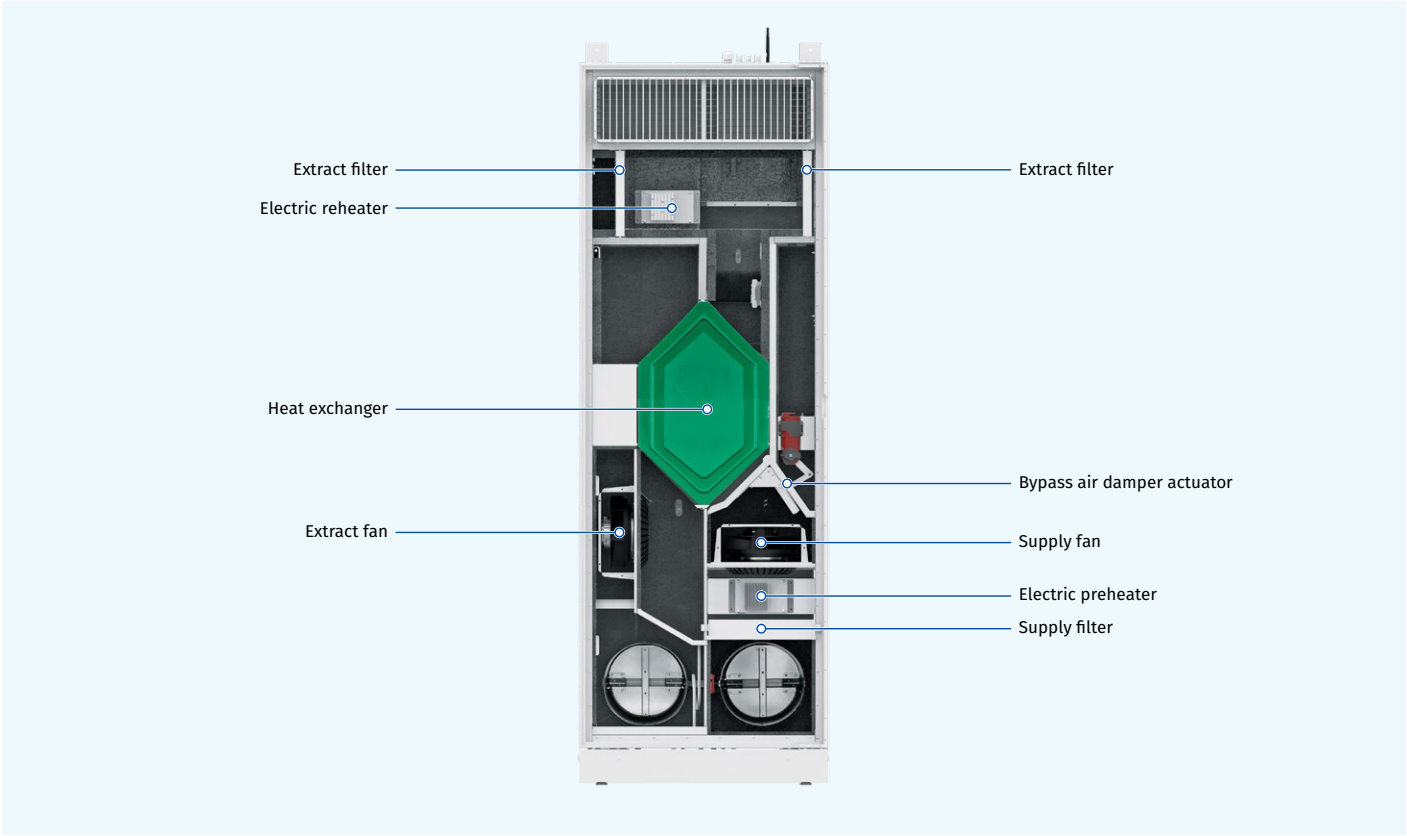
EC motor · ErP 2018 · Wi Fi READY · BMS · Hey Google

Design

- Made of high-quality polymer coated steel, internally lined with heat- and sound insulation of mineral wool, cellular synthetic rubber or other materials.
- Built-in preheater and reheater modifications available for cold climate conditions.

Motors

- High efficient electronically commutated motors with external motor and impeller with forward curved blades. Such motors are the most state-of-the-art energy saving solution.
- EC motors are featured with high performance and total speed controllable range. High efficiency reaching 90 % is the premium advantage of the electronically commutated motors.



Designation key										
Model	**Motor type**	**Mounting**	**Bypass**	**Heater**	**Drain pump**	**Rated air flow [m³/h]**	**Heat exchanger type**	**Service side (for Civic...1200)**	**Control**	**Modernization**
CIVIC	**EC:** synchronous electronically commutated motor	**L:** floor mounting	**B:** with bypass	**_:** without heater **E:** preheating **E2:** preheating + reheating	**_:** without drain pump **CP:** with drain pump	**500; 1200**	**_:** heat recovery **-E:** energy recovery	**L:** Left **R:** Right	**S21**	**V.2:** second modernized generation

Air filtration

- Exhaust cassette filter: ISO Coarse >60 % (G4).
- Supply cassette filter: ISO ePM1 60 % (F7)

Bypass

- The units are equipped with a bypass. The bypass damper opens for free cooling ventilation mode in summer.

Air dampers

- The automatic supply and extract air dampers are used to prevent uncontrollable air draughts during the unit standstill.

Heaters

PREHEATING

- **CIVIC EC LBE V.2** and **CIVIC EC LBE2 V.2** units are equipped with an electric preheater which protects the heat exchanger from freezing.

REHEATING

- **CIVIC EC LBE2 V.2** units feature an electric reheater to raise the supply air temperature.

Heat exchanger

- The **CIVIC EC LB V.2** unit has a counter-flow heat exchanger made of polystyrene.
  - **In cold season** the heat energy of the extract air flow is absorbed by intake air flow, thus decreasing the heat losses caused by ventilation. Condensate generated during heat recovery is collected in a drain pan and removed to the sewage system.
  - **In warm season** the heat of the outdoor air is absorbed by extract air flow. This way the supply air temperature decreases and heat recovery reduces operation loads for the air conditioner.

- The **CIVIC EC LB... -E V.2** unit is equipped with a counter-flow heat exchanger made of enthalpy membrane.
  - **In cold season** the heat and moisture of the extract air are absorbed by supply air through the enthalpy membrane, thus decreasing the heat losses caused by ventilation.
  - **In warm season** the heat and humidity of the outdoor air is absorbed by extract air flow through the enthalpy membrane. This way the supply air temperature and humidity decreases and heat recovery reduces operation loads for the air conditioner.

Functioning

- **Cold outside air** flows through the filters and heat exchanger and is moved to the room with a supply centrifugal fan.
- **Warm polluted air from the premise** flows through the filter and the heat exchanger and is exhausted outside with an extract centrifugal fan through an air duct in the wall.

Control and automation

- The **CIVIC EC LB... S21 V.2** units are equipped with an integrated automation system.
- The S21 controller allows integrating the unit into the **BMS (Building Management System)**.
- The unit can be controlled by the **Blauberg Home** mobile application via Wi-Fi.

Download the **Blauberg Home** app for Android

Download the **Blauberg Home** app for iOS

Modbus

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Automation functions

Functions	Description
Unit control via Wi-Fi using the mobile application	+
Unit control via remote control panel	S22 control panel (option) 
Unit control via remote wireless control panel	S22 Wi-Fi control panel (option) 
Unit control via a wired remote LCD control panel	S25 control panel (option) 
BMS (Building Management System)	RS-485
	Wi-Fi
	Ethernet
	MODBUS (RTU, TCP)
Speed switch	+
Filter replacement indication	by filter timer
Alarm indication	full alarm description in the mobile application
Week scheduled operation	+
Bypass	automatic
	manual
Timer	+
Boost mode	+
Fireplace mode	+
Freeze protection	using cyclical stops of the supply fan
	using preheating (option)
Reheater connection	option
Cooler connection	option
Minimum supply air temperature control	+
Humidity control	option
CO_2 control	option
VOC control	option
PM2.5 control	option
Fire alarm sensor connection	option

Option: the functionality is available when purchasing the appropriate accessory (see the "Accessories" section)

Ordering Information

Part Number	Model	Description
BLA CIVIC EC LB 500 V.2	CIVIC EC LB 500 V.2	Single room wall mounted air handling unit
BLA CIVIC EC LB 1200 V.2	CIVIC EC LB 1200 V.2	Single room wall mounted air handling unit

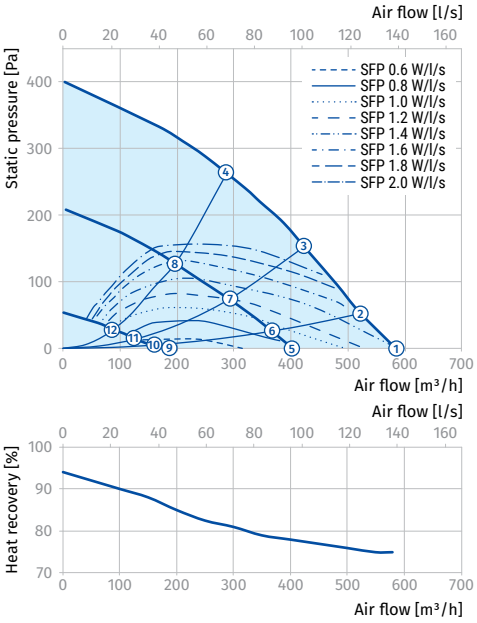
Technical data

Parameters	Civic EC LB 500 S21 V.2	Civic EC LBE 500 S21 V.2	Civic EC LBE2 500 S21 V.2	Civic EC LB 1200 S21 V.2	Civic EC LBE 1200 S21 V.2	Civic EC LBE2 1200 S21 V.2
Voltage [V / 50 (60) Hz]	1~230	1~230	1~230	1~230	3~400	3~400
Max. power consumption without an electric heater [W]	370	370	370	345	345	345
Preheater power [W]	–	1050	1050	–	3150	3150
Reheater power [W]	–	–	700	–	–	2110
Max. current without an electric heater [A]	2.5	2.5	2.5	2.3	2.3	2.3
Max. current with an electric heater [A]	–	9.1	13.3	–	12	18.7
Maximum air flow [m³/h (l/s)]	580 (161)	580 (161)	580 (161)	1240 (344)	1240 (344)	1240 (344)
Sound pressure level at 1 m [dBA]	47	47	47	40	40	40
Sound pressure level at 3 m [dBA]	38	38	38	30	30	30
Max. transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40	−25...+40	−25...+40
Casing material	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel
Insulation	40 mm, mineral wool	40 mm, mineral wool	40 mm, mineral wool	40 mm, mineral wool	40 mm, mineral wool	40 mm, mineral wool
Extract filter	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)
Supply filter	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)
Connected air duct diameter [mm]	250	250	250	400	400	400
Weight [kg]	139	140	142	352	358	363
Heat recovery efficiency* [%]	75...94	75...94	75...94	84...96	84...96	84...96
Heat exchanger type	counter-flow	counter-flow	counter-flow	counter-flow	counter-flow	counter-flow
Heat exchanger material	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene
SEC class	A	A	A	–	–	–

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

CIVIC EC LB/LBE/LBE2 500 V.2

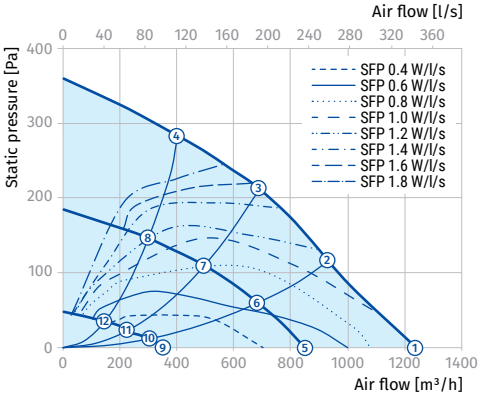
Sound-power level, A - weighted	Total	Octave frequency band [Hz] 200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	LpA 3 m	LpA 1 m
L_{WA} to environment @ point 1 [dBA]	**57**	47	52	51	48	47	44	45	45	44	46	48	45	38	30	27	25	26	27	**38**	**47**
L_{WA} to environment @ point 5 [dBA]	**49**	44	37	36	42	38	38	37	38	37	39	41	37	29	24	23	22	25	26	**28**	**39**
L_{WA} to environment @ point 9 [dBA]	**37**	28	27	26	31	29	28	28	29	27	27	28	25	21	20	21	22	25	27	**17**	**27**
L_{WA} to environment @ point 3 [dBA]	**55**	47	46	42	47	46	43	43	43	43	43	45	42	35	29	27	24	26	27	**35**	**45**
L_{WA} to environment @ point 4 [dBA]	**47**	49	48	49	52	51	50	50	49	48	46	46	44	38	33	30	27	28	28	**28**	**37**

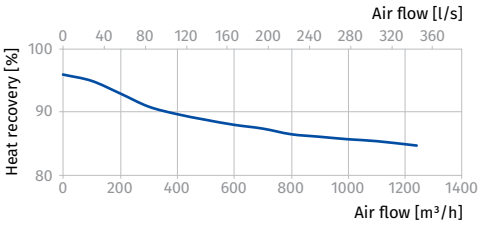


Point	Total power of the unit [W]	Total sound pressure level at 3 m (1 m) [dBA]
1	236	37 (47)
2	236	–
3	234	35 (45)
4	234	28 (37)
5	80	28 (39)
6	78	–
7	76	–
8	75	–
9	21	17 (27)
10	19	–
11	20	–

CIVIC EC LB/LBE/LBE2 1200 V.2

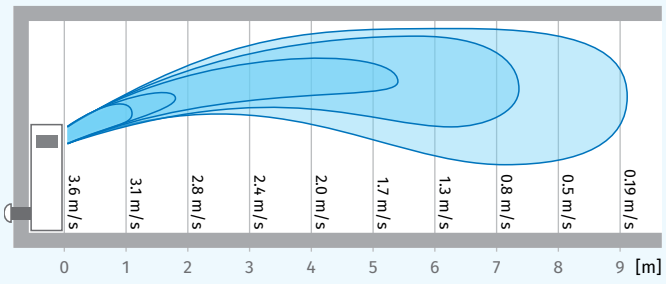
Sound-power level, A - weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LwA to environment @ point 1 [dBA]	**50**	31	35	40	37	36	36	28	17	**30**	**40**
LwA to environment @ point 5 [dBA]	**47**	27	31	33	29	30	27	22	13	**26**	**36**
LwA to environment @ point 9 [dBA]	**32**	21	27	21	25	17	19	24	16	**11**	**21**



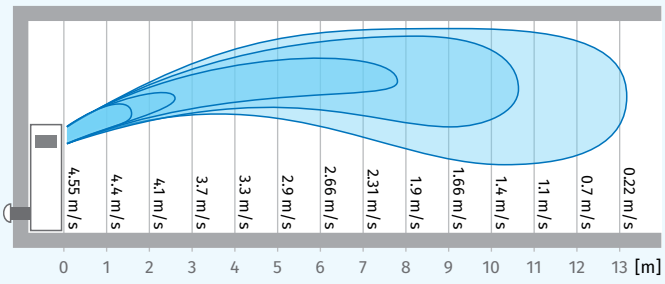


Point	Total power of the unit [W]	Total sound pressure level at 3 m (1 m) [dBA]
1	315	30 (40)
2	312	–
3	311	30 (40)
4	308	26 (36)
5	122	15 (25)
6	121	–
7	120	–
8	118	–
9	24	11 (21)
10	23	–
11	22	–

Fresh air flow distance for CIVIC EC LB 500 V.2



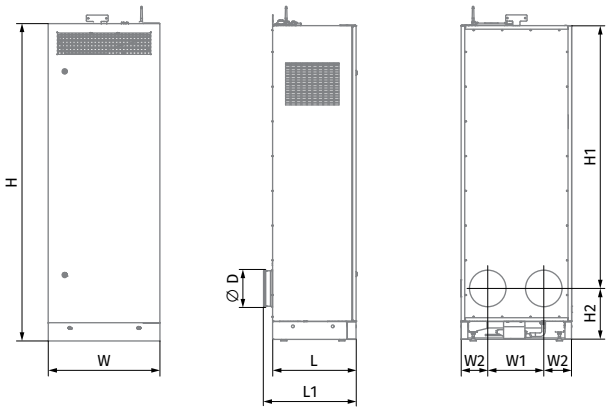
Fresh air flow distance for CIVIC EC LB 1200 V.2



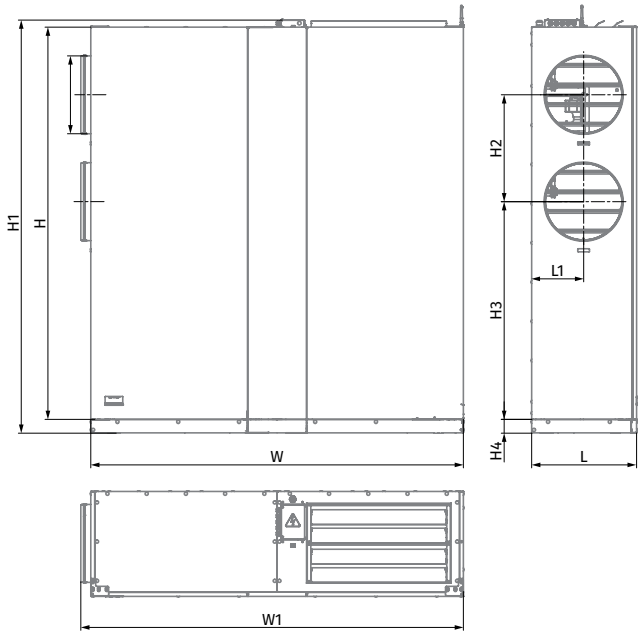
The unit is rated for indoor application with the ambient temperature ranging from +1 °C to +40 °C and relative humidity up to 80%.

Overall dimensions [mm]

Model	∅ D	H	H1	H2	H3	H4	L	L1	W	W1	W2
CIVIC EC LB 500 V.2	250	2170	1865	305	–	–	535	585	750	350	200
CIVIC EC LB 1200 V.2	400	2000	2106	545	1110	70	535	265	1900	1951	–



CIVIC EC LB 500 V.2



CIVIC EC LB 1200 V.2

Accessories

		Civic EC LB... 500 S21 V.2	Civic EC LB... 1200 S21 V.2
Outer ventilation hood made of brushed stainless steel		AH Civic 500 LB chrome	AH Civic 1200 LB chrome
Outer ventilation hood made of white coated stainless steel		AH Civic 500 LB white	AH Civic 1200 LB white
Extract filter ISO Coarse >60 % (G4)		FP 255x448x25 G4 (2 pcs.)	FP 450x395x48 G4
Supply filter ISO ePM1 60 % (F7)		FP 449x318x60 F7	FP 540x450x48 F7
Control panel		S22	S22
Wi-Fi control panel		S22 Wi-Fi	S22 Wi-Fi
LCD Control panel		S25	S25

		Civic EC LB... 500 S21 V.2	Civic EC LB... 1200 S21 V.2
VOC sensor		DPWQ30600	DPWQ30600
Humidity sensor		DPWC11200	DPWC11200
CO_2 sensor		DPWQ40200	DPWQ40200
CO_2 sensor with indication		CD-1	CD-1
CO_2 sensor		CD-2	CD-2
CO_2 sensor		CD-3	CD-3
Internal humidity sensor		FS2	FS2
Humidity sensor		HR-S	HR-S
Syphon kit		SFK 20x32	SFK 20x32
Drain pump		CP-2	CP-2

CIVIC EC DB V.2

Single-room air handling units

Features

- The **CIVIC EC DB V.2** units are designed for single-room ventilation of schools, offices and other public and commercial premises. Offer the ideal simple and efficient ventilation solutions for existing and renovated buildings and require no layout of air ducts.
- Efficient supply and extract ventilation for separate premises.
- EC motors with low energy consumption.
- Low-noise operation.
- Simple mounting.

Air flow:
up to 1000 m³/h
278 l/s

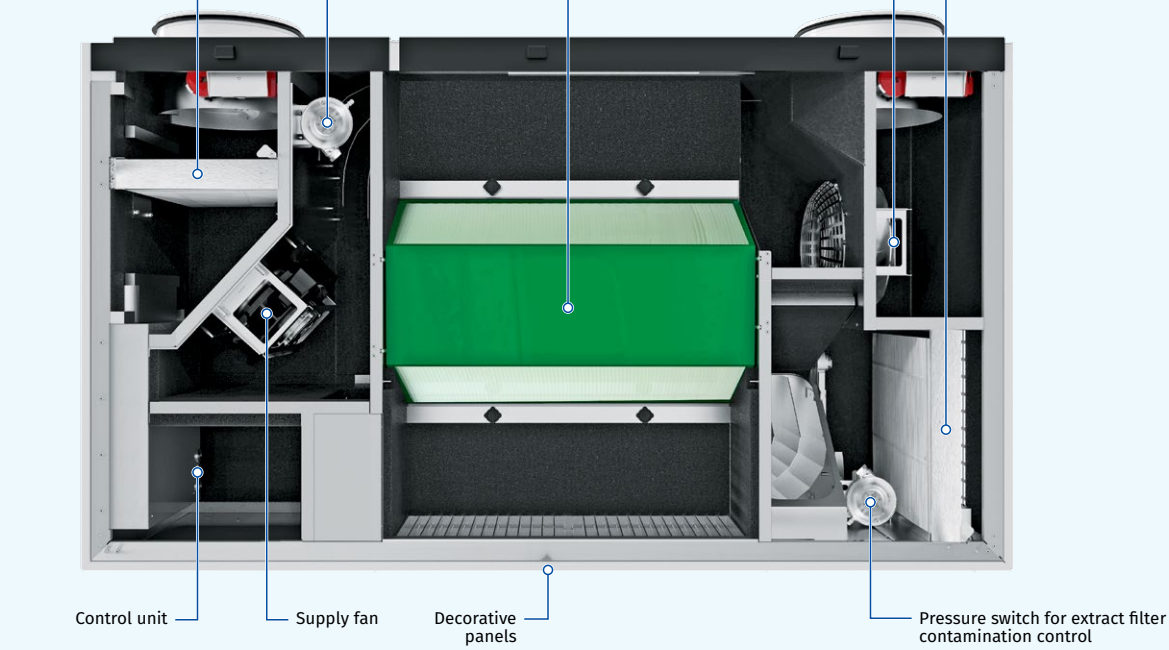
Heat recovery efficiency:
up to 96 %

Design

- Made of high-quality polymer coated steel, internally lined with heat- and sound insulation of mineral wool, cellular synthetic rubber or other materials.
- Available modifications with an integrated preheater and reheater for cold climate applications.

Motors

- High efficient electronically commutated motors with external motor and impeller with forward curved blades. Such motors are the most state-of-the-art energy saving solution.
- EC motors are featured with high performance and total speed controllable range. High efficiency reaching 90 % is the premium advantage of the electronically commutated motors.



Designation key

Model	Motor type	Mounting	Bypass	Heater	Drain pump*	Rated air flow [m³/h]	Control	Modernization
CIVIC	**EC:** synchronous electronically commutated motor	**D:** Suspended mounting, horizontally oriented spigots; **D1:** Suspended mounting, vertically oriented spigots	**B:** with bypass	**_:** without heater **E:** preheating **E2:** preheating + reheating	**_:** without drain pump **CP:** with drain pump	**500; 1000**	**S21**	**V.2:** second modernized generation

* The CIVIC EC DB... 1000 S21 V.2 units are equipped with a drain pump by default.

Air filtration

- Exhaust cassette filter: ISO Coarse >60 % (G4).
- Supply cassette filter: ISO ePM1 60 % (F7)

Bypass

- The units are equipped with a bypass. The bypass damper opens for free cooling ventilation mode in summer.

Air dampers

- The automatic supply and extract air dampers are used to prevent uncontrollable air draughts during the unit standstill.

Heater

PREHEATING

- **CIVIC EC DBE V.2** and **CIVIC EC DBE2 V.2** units are equipped with an electric preheater which protects the heat exchanger from freezing.

REHEATING

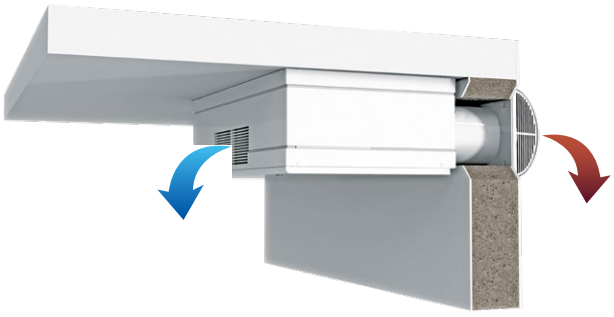
- **CIVIC EC DBE2 V.2** units feature an electric reheater to raise the supply air temperature.

Heat exchanger

- The **CIVIC EC DB V.2** unit has a counter-flow heat exchanger made of polystyrene.
  - **In cold season** the heat energy of the extract air flow is absorbed by intake air flow, thus decreasing the heat losses caused by ventilation. Condensate generated during heat recovery is collected in a drain pan and removed through the drain pipes to the sewage system.
  - **In warm season** the heat of the outdoor air is absorbed by extract air flow. This way the supply air temperature decreases and heat recovery reduces operation loads for the air conditioner.

Functioning

- **Cold outside air** flows through the filters and heat exchanger and is moved to the room with a supply centrifugal fan.
- **Warm polluted air from the premise** flows through the filter and the heat exchanger and is exhausted outside with an extract centrifugal fan through an air duct in the wall.



Control and automation

- The **CIVIC EC DB S21 V.2** units are equipped with an integrated automation system.
- The S21 controller allows integrating the unit into the **BMS (Building Management System)**.
- The unit can be controlled by the **Blauberg Home** mobile application via Wi-Fi.

Download the **Blauberg Home** app for Android

Download the **Blauberg Home** app for iOS

Modbus

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Automation functions

Functions	Description
Unit control via Wi-Fi using the mobile application	+
Unit control via remote control panel	S22 control panel (option)
Unit control via remote wireless control panel	S22 Wi-Fi control panel (option)
Unit control via a wired remote LCD control panel	S25 control panel (option)
BMS (Building Management System)	RS-485
	Wi-Fi
	Ethernet
	MODBUS (RTU, TCP)
Speed switch	+
Filter replacement indication	by filter timer
Alarm indication	full alarm description in the mobile application
Week scheduled operation	+
Bypass	automatic
	manual
Timer	+
Boost mode	+
Fireplace mode	+
Freeze protection	using cyclical stops of the supply fan
	using preheating (option)
Reheater connection	option
Cooler connection	option
Minimum supply air temperature control	+
Humidity control	option
CO_2 control	option
VOC control	option
PM2.5 control	option
Fire alarm sensor connection	option

Option: the functionality is available when purchasing the appropriate accessory (see the "Accessories" section)

Ordering Information

Part Number	Model	Description
BLA CIVIC EC DB 500 V.2	CIVIC EC DB 500 V.2	Single room ceiling mounted air handling unit
BLA CIVIC EC DB 1000 V.2	CIVIC EC DB 1000 V.2	Single room wall mounted air handling unit

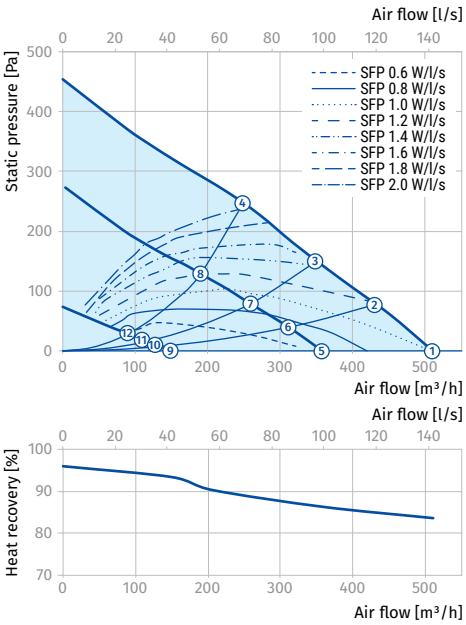
Technical data

Parameters	CIVIC EC DB 500 S21 V.2	CIVIC EC DBE 500 S21 V.2	CIVIC EC DBE2 500 S21 V.2	CIVIC EC DB 1000 S21 V.2	CIVIC EC DBE 1000 S21 V.2	CIVIC EC DBE2 1000 S21 V.2
Voltage [V / 50 (60) Hz]	1~ 230	1~ 230	1~ 230	1~ 230	3~400	3~400
Max. power consumption without an electric heater [W]	238	238	238	267	267	267
Preheater power [W]	–	1050	1050	–	3150	3150
Reheater power [W]	–	–	700	–	–	2100
Max. current without an electric heater [A]	1.7	1.7	1.7	1.85	1.85	1.85
Max. current with an electric heater [A]	–	9.3	12.6	–	12	18
Maximum air flow [m³/h (l/s)]	510 (142)	510 (142)	510 (142)	1000 (278)	1000 (278)	1000 (278)
Sound pressure level at 1 m [dBA]	44	44	44	34	34	34
Sound pressure level at 3 m [dBA]	34	34	34	24	24	24
Max. transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40	−25...+40	−25...+40
Casing material	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel	polymer coated steel
Insulation	25 mm, EPDM (polyurethane foam)	25 mm, EPDM (polyurethane foam)	25 mm, EPDM (polyurethane foam)	45 mm, EPDM (polyurethane foam)	45 mm, EPDM (polyurethane foam)	45 mm, EPDM (polyurethane foam)
Extract filter	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)	ISO Coarse >60 % (G4)
Supply filter	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)	ISO ePM1 60 % (F7)
Connected air duct diameter [mm]	250	250	250	315	315	315
Weight [kg]	95	95	96	252	258	268
Heat recovery efficiency* [%]	83...96	83...96	83...96	83...93	83...93	83...93
Heat exchanger type	counter-flow	counter-flow	counter-flow	counter-flow	counter-flow	counter-flow
Heat exchanger material	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene	polystyrene
SEC class	A+	A+	A+	A+	A+	A+

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

CIVIC EC DB/DBE/DBE2 500 V.2

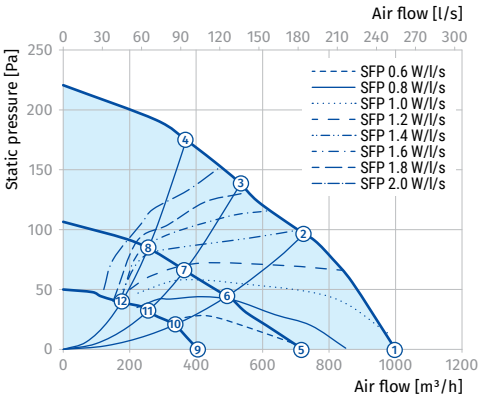
Sound-power level, A - weighted	Total	Octave frequency band [Hz]																		LpA 3 m	LpA 1 m
		200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
L_{WA} to environment @ point 1 [dBA]	**54.7**	44.7	48.8	46.3	45.7	41.3	38.8	40.9	40.4	40.2	42.8	43.0	40.0	32.8	27.7	25.7	23.6	25.9	25.8	**43.7**	**34.1**
L_{WA} to environment @ point 5 [dBA]	**48.2**	44.7	37.8	37.3	38.6	32.7	31.5	32.8	33.0	32.8	35.3	35.1	31.2	23.8	20.7	20.2	19.8	23.2	24.2	**37.2**	**27.7**
L_{WA} to environment @ point 9 [dBA]	**33.6**	22.9	21.9	27.0	24.3	17.8	17.1	17.6	16.9	16.4	17.2	17.6	17.1	17.5	17.8	18.7	19.5	23.0	24.1	**22.6**	**13.0**
L_{WA} to environment @ point 3 [dBA]	**61.2**	55.0	53.5	53.5	52.1	46.5	45.2	46.1	46.1	45.6	46.8	45.9	43.9	39.1	36.4	47.1	40.1	39.9	35.2	**50.2**	**40.7**
L_{WA} to environment @ point 4 [dBA]	**55.4**	47.7	47.7	47.2	46.4	42.0	39.4	40.7	41.3	41.2	43.8	44.0	41.5	33.8	29.0	26.8	23.9	25.2	24.9	**44.4**	**34.8**

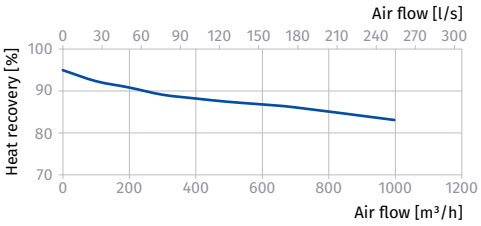


Point	Total power of the unit [W]	Total sound pressure level at 3 m (1 m) [dBA]
1	170	34 (44)
2	153	–
3	135	34 (44)
4	116	35 (44)
5	95	28 (37)
6	86	–
7	80	–
8	68	–
9	25	17 (26)
10	24	–
11	24	–
12	22	–

CIVIC EC DB/DBE/DBE2 1000 V.2

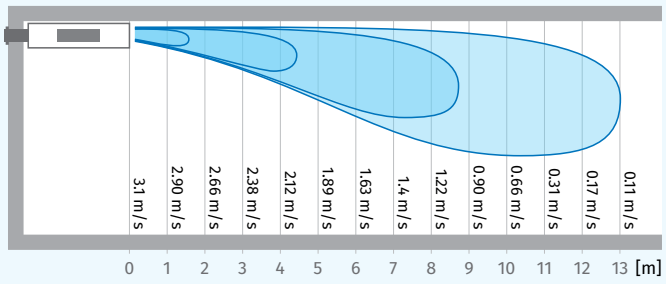
Sound-power level, A - weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to environment @ point 1 [dBA]	**45**	31	37	40	37	36	36	29	18	**24**	**34**
L_{WA} to environment @ point 5 [dBA]	**37**	26	29	32	29	29	29	24	15	**17**	**27**
L_{WA} to environment @ point 9 [dBA]	**32**	21	26	20	25	19	20	25	18	**11**	**21**



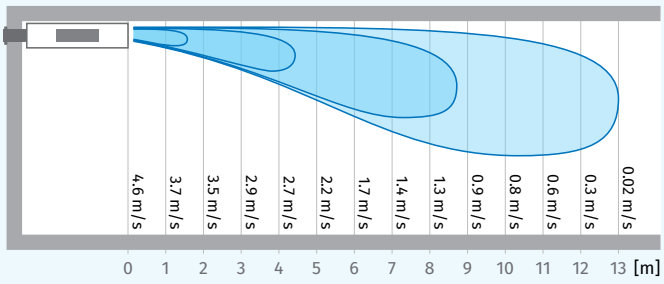


Point	Total power of the unit [W]	Total sound pressure level at 3 m (1 m) [dBA]
1	260	24 (34)
2	251	23 (33)
3	235	23 (33)
4	221	22 (32)
5	136	17 (27)
6	130	17 (27)
7	125	16 (27)
8	120	16 (27)
9	47	11 (21)
10	45	11 (21)
11	44	11 (21)
12	42	11 (21)

Fresh air flow distance for CIVIC EC DB 500 V.2



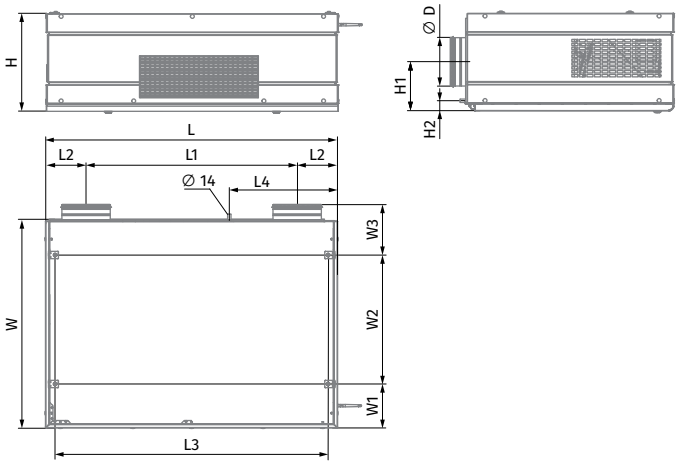
Fresh air flow distance for CIVIC EC DB 1000 V.2



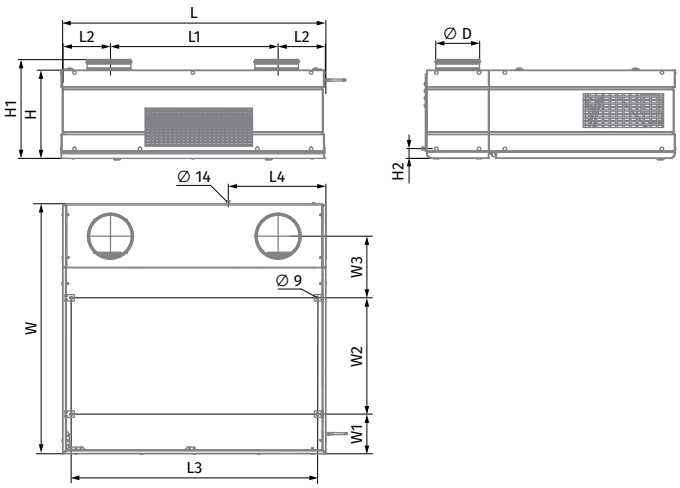
The unit is rated for indoor application with the ambient temperature ranging from +1 °C to +40 °C and relative humidity up to 80 %

Overall dimensions [mm]

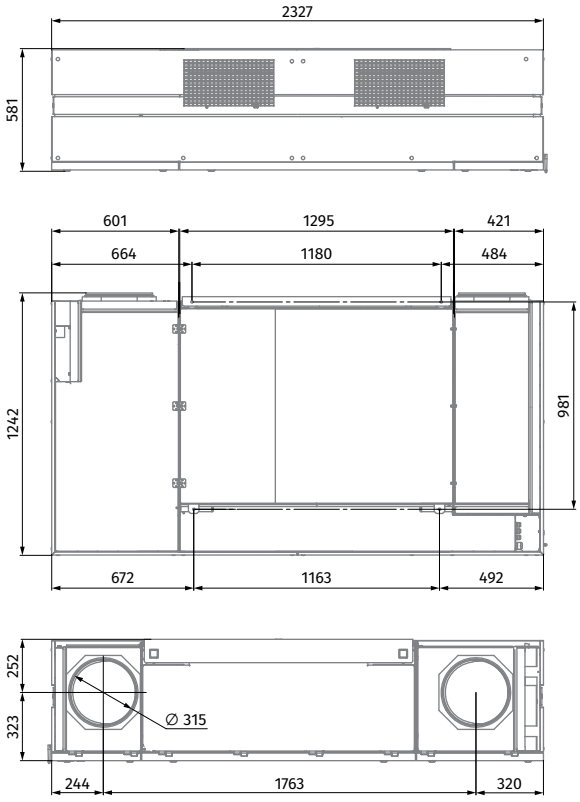
Model	∅ D	H	H1	H2	L	L1	L2	L3	L4	W	W1	W2	W3
CIVIC EC DB... 500 S21 V.2	250	458	221	41	1500	1135	186	1422	504	850	181	530	207
CIVIC EC D1B... 500 S21 V.2	250	458	509	45	1500	964	268	1422	504	1186	181	530	304



CIVIC EC DB 500 S21 V.2



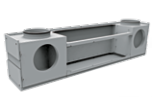
CIVIC EC D1B 500 S21 V.2



CIVIC EC DB 1000 S21 V.2

Accessories

		CIVIC EC DB 500 S21 V.2 CIVIC EC DBE 500 S21 V.2 CIVIC EC DBE2 500 S21 V.2	CIVIC EC DB 1000 S21 V.2 CIVIC EC DBE 1000 S21 V.2 CIVIC EC DBE2 1000 S21 V.2
Extract filter ISO Coarse >60 % (G4)		FP 379x334x48 G4	FP 654x480x48 G4
Supply filter ISO ePM1 60 % (F7)		FP 379x254x48 F7	FP 654x480x48 F7
Outer grill		VDA 250 CFn Al	VDA 315 CFn Al

		CIVIC EC DB 500 S21 V.2 CIVIC EC DBE 500 S21 V.2 CIVIC EC DBE2 500 S21 V.2	CIVIC EC DB 1000 S21 V.2 CIVIC EC DBE 1000 S21 V.2 CIVIC EC DBE2 1000 S21 V.2
Control panel		S22	S22
Wi-Fi control panel		S22 Wi-Fi	S22 Wi-Fi
LCD Control panel		S25	S25
VOC sensor		DPWQ30600	DPWQ30600
CO_2 sensor		DPWQ40200	DPWQ40200
CO_2 sensor with indication		CD-1	CD-1
CO_2 sensor		CD-2	CD-2
CO_2 sensor		CD-3	CD-3
Humidity sensor		DPWC11200	DPWC11200
Internal humidity sensor		FS2	FS2
Humidity sensor		HR-S	HR-S
Syphon kit		SFK 20x32	SFK 20x32
Drain pump		CP-2	CP-2
Modul of vertical duct connection		VDC Civic 500 DB	VDC Civic 1000 DB

KOMFORT EC S(B)

Heat and humidity recovery air handling units

Features

- Air handling units for efficient energy saving supply and exhaust ventilation in flats, houses, cottages and other premises.
- Heat and humidity recovery minimizes ventilation heat losses during cold season and reduces air conditioner load during hot season.
- Controllable air exchange for creating the best suitable indoor microclimate.
- Compatible with round ∅ 160 or 200 mm air ducts.

Air flow:
up to 690 m³/h
192 l/s

Heat recovery efficiency:
up to 98 %

EC motor · ErP 2016 · ErP 2018 · Wi Fi READY · BMS

Design

- The casing is made of double-skinned polymer-coated steel panels, internally filled with 20, 30, 40 mm (depending on the unit model) mineral wool layer for heat- and sound-insulation.
- The unit is equipped with a hinged service panel to enable convenient access for maintenance or repair operations.
- The spigots are located at the top of the unit and are equipped with rubber seals for airtight connection to the air ducts.

Fans

- The units are equipped with high-efficient EC motors with an external rotor and a centrifugal impeller with backward curved blades.
- EC motors have the best power consumption to air capacity ratio and meet the latest demands concerning energy saving and high-efficient ventilation.
- EC motors are featured with high performance, low noise level and optimum control across the entire speed range.
- The impellers are dynamically balanced.

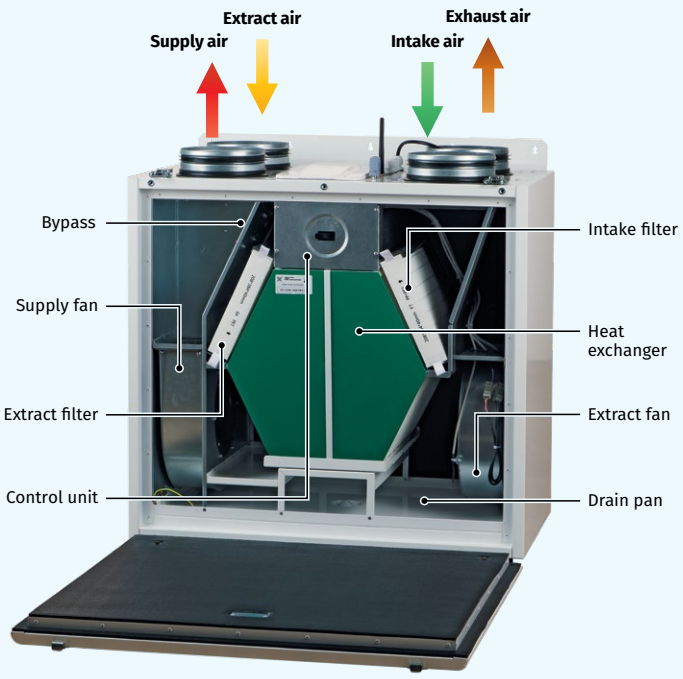
Air filtration

- The built-in F7 filter provides efficient supply air filtration. The G4 filter is used for extract air cleaning.
- In the **KOMFORT EC SB(E) 250** units, the supply air is cleaned by the G4 filter (F7 filter optionally available).

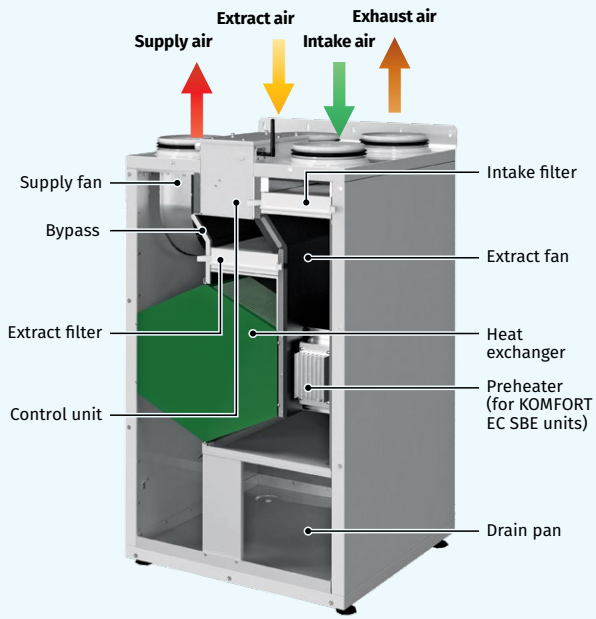
Bypass

- The **KOMFORT EC SB(-E)** units are equipped with a bypass for ventilation (air cooling by the cool air from outside).

KOMFORT EC SB



KOMFORT EC SB(E) 250(-E)



Heat recovery

- The **KOMFORT EC S(B)** unit is equipped with a plate counter-flow polystyrene heat exchanger for heat recovery. The unit condensate is collected and drained to the drain pan under the heat exchanger.

- The **KOMFORT EC S(B)-E** unit is equipped with an enthalpy plate counter-flow heat exchanger for energy (heat and humidity) recovery. Due to humidity recovery condensate is not generated in the enthalpy heat exchanger.

- The air flows are completely separated in the heat exchanger. Thus smells and contaminants are not transferred from the extract air to the supply air.
- Heat recovery is based on heat and/or humidity transfer through the heat exchanger plates. In the cold season supply air is heated in the heat exchanger by transferring the heat energy of warm and humid extract air to the cold fresh air. Heat recovery minimizes ventilation heat losses and heating costs respectively.
- In the warm season the heat exchanger performs reverse and intake air is cooled in the heat exchanger by the cool extract air. That reduces operation load on air conditioners and saves electricity.
- When the indoor and outdoor temperature difference is insignificant, heat recovery is not reasonable. In this case the heat exchanger can be temporary replaced with a summer block for the warm season (available as a specially ordered accessory).

Mounting

- The units are designed for wall or floor mounting.
- Universal casing design provides either left-handed or right-handed unit installation.

Control and automation

- The **KOMFORT EC S(B)(-E) S21** units are equipped with an integrated automation system. The remote control panel is not included in the delivery set (available separately).
- The S21 controller allows integrating the unit into the **Smart Home** system or **BMS** (**Building Management System**).
- The unit can be controlled by the **Blauberg AHU** mobile application via Wi-Fi.

Download the **Blauberg AHU** app for Android

Download the **Blauberg AHU** app for iOS

- The **KOMFORT EC S(B)(-E) S14** units have an integrated automation system with a wall-mounted control panel S14 with a LED indication.

Automation functions

Functions	KOMFORT EC S(B)(-E) S21	KOMFORT EC S(B)(-E) S14
Unit control via Wi-Fi using a mobile application	+	–
Unit control via a wired remote control panel	S22 control panel (option) 	S14 control panel 
Unit control via a wireless remote control panel	S22 Wi-Fi control panel (option) 	–
Unit control via a remote wired LCD control panel	S25 control panel (option) 	–
BMS (Building Management System)	RS-485	–
	Wi-Fi	–
	Ethernet	–
	MODBUS (RTU, TCP)	–
Blauberg Cloud Server service	+	–
Speed selection	+	+
Filter replacement indication	by filter timer	by filter timer
	by filter clogging differential pressure switch (KOMFORT EC SB 550)	–
Alarm indication	full alarm description in the mobile application	LED alarm indication
Week-scheduled operation	+	–
Bypass	automatic	–
	manual	manual
Timer	+	–
Boost mode	+	–
Fireplace mode	+	–
Freeze protection	through cyclic stops of the supply fan	through cyclic stops of the supply fan
	through preheating (option)	–
Reheater connection	option	–
Cooler connection	option	–
Minimum supply air temperature control	+	–
Humidity control	option	option
CO_2 control	option	option
VOC control	option	–
PM2.5 control	option	–
Fire alarm sensor connection	option	option

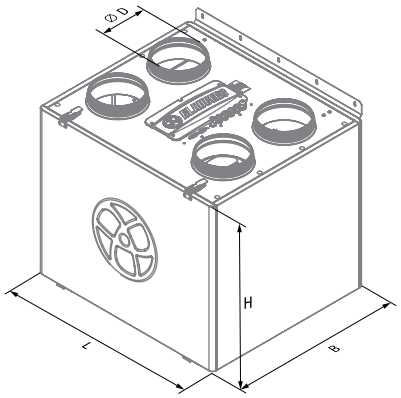
Option: function is available when purchasing the appropriate accessory (see the "Accessories" section).

Designation key

Series	Motor type	Spigot modification	Bypass	Heater type	Rated air flow, [m³/h]	Heat exchanger type	Service side	Control
KOMFORT	**EC:** electronically commutated motor	**S:** vertical spigot orientation	**_:** no bypass **B:** with a bypass	**_:** no heater **E:** integrated electric preheater	**250; 350; 550**	**_:** heat recovery **-E:** energy recovery	**L:** left **R:** right (for KOMFORT EC SB(E) 250 only)	**S21** **S14**

Overall dimensions [mm]

Model	∅ D	B	H	L
KOMFORT EC SB(E) 250(-E) S21/S14	160	560	970	560
KOMFORT EC SB 350(-E) S21/S14	160	583	675	730
KOMFORT EC SB 550(-E) S21/S14	200	720	675	823



Ordering Information

Part Number	Model	Description
BLA KOMFORT EC SB(E) 250(-E) S21/S14	KOMFORT EC SB(E) 250(-E) S21/S14	Heat and humidity recovery air handling unit
BLA KOMFORT EC SB 350(-E) S21/S14	KOMFORT EC SB 350(-E) S21/S14	Heat and humidity recovery air handling unit
BLA KOMFORT EC SB 550(-E) S21/S14	KOMFORT EC SB 550(-E) S21/S14	Heat and humidity recovery air handling unit

Technical Data

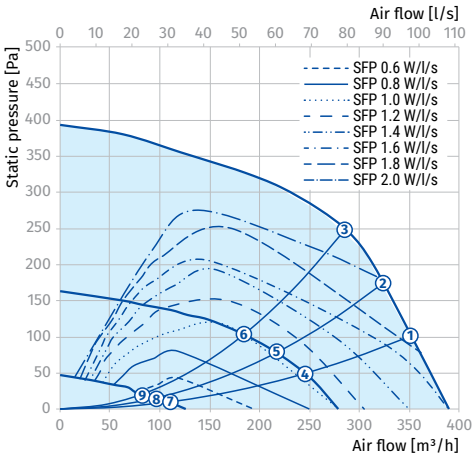
Parameters	KOMFORT EC SB 250 S21 KOMFORT EC SB 250 S14	KOMFORT EC SB 250-E S21 KOMFORT EC SB 250-E S14	KOMFORT EC SBE 250 S21	KOMFORT EC SBE 250-E S21
Supply voltage [V / 50 (60) Hz]	1~ 230	1~ 230	1~ 230	1~ 230
Power [W]	180	180	180	180
Current [A]	1.37	1.37	1.37	1.37
Electric heater power [W]	–	–	1400	1400
Electric heater current [A]	–	–	6.09	6.09
Max. unit power with electric heater [W]	180	180	1580	1580
Max. unit current with electric heater [A]	1.37	1.37	7.46	7.46
Maximum air flow [m³/h (l/s)]	390 (108)	390 (108)	390 (108)	390 (108)
RPM [min⁻¹]	2600	2600	2600	2600
Sound pressure level at a distance of 3 m [dBA]	35	35	35	35
Transported air temperature [°C]	-25...+40	-25...+40	-25...+40	-25...+40
Casing material	polymer-coated steel	polymer-coated steel	polymer-coated steel	polymer-coated steel
Insulation	30 mm mineral wool	30 mm mineral wool	30 mm mineral wool	30 mm mineral wool
Extract filter	G4	G4	G4	G4
Supply filter	G4 (option: F7)	G4 (option: F7)	G4 (option: F7)	G4 (option: F7)
Connected air duct diameter [mm]	160	160	160	160
Weight [kg]	66	66	66	66
Heat recovery efficiency [%]	88–95	78–90	88–95	78–90 %
Heat exchanger type	counter-flow	counter-flow	counter-flow	counter-flow
Heat exchanger material	polystyrene	enthalpy	polystyrene	enthalpy
SEC class	A+	A	A+	A
ErP	2016, 2018	2016, 2018	2016, 2018	2016, 2018

KOMFORT EC SB(E) 250 (-E)

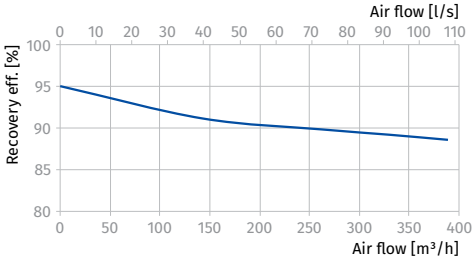
Sound power level, A-weighted	Total	Octave frequency band [Hz]							LpA 3 m	LpA 1 m
		125	250	500	1000	2000	4000	8000		
L_{WA} to supply inlet [dBA]	**70**	51	55	59	64	65	63	54	**49**	**59**
L_{WA} to supply outlet [dBA]	**68**	50	55	59	64	63	58	53	**48**	**58**
L_{WA} to exhaust inlet [dBA]	**76**	28	58	66	70	68	69	62	**55**	**65**
L_{WA} to exhaust outlet [dBA]	**67**	27	56	65	57	59	54	47	**47**	**57**
L_{WA} to environment [dBA]	**56**	24	50	49	47	45	48	45	**35**	**45**

Data provided for point 1 of the air flow diagram

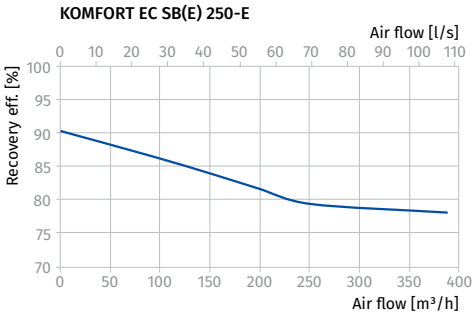
Point	Total power of the unit [W]	Sound pressure level at 3 m (1 m) [dBA]
1	180	35 (45)
2	179	35 (45)
3	168	35 (45)
4	63	24 (34)
5	57	24 (34)
6	52	23 (33)
7	15	18 (27)
8	15	17 (27)
9	14	17 (27)



KOMFORT EC SB(E) 250



KOMFORT EC SB(E) 250-E



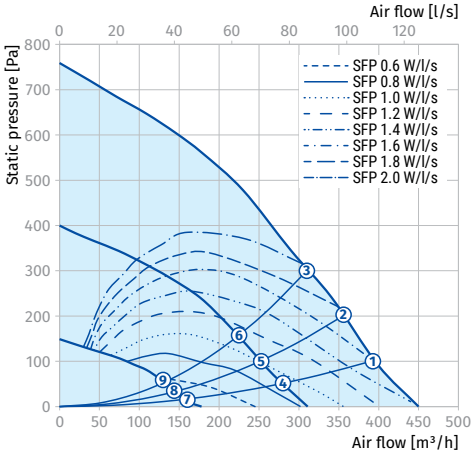
Parameters	KOMFORT EC SB 350 S21 KOMFORT EC SB 350 S14	KOMFORT EC SB 350-E S21 KOMFORT EC SB 350-E S14
Supply voltage [V / 50 (60) Hz]	1~ 230	1~ 230
Power [W]	178	178
Current [A]	1.4	1.4
Maximum air flow [m³/h (l/s)]	450 (125)	450 (125)
RPM [min⁻¹]	3200	3200
Sound pressure level at a distance of 3 m [dBA]	28	28
Transported air temperature [°C]	-25...+40	-25...+40
Casing material	polymer-coated steel	polymer-coated steel
Insulation	40 mm mineral wool	40 mm mineral wool
Extract filter	G4	G4
Supply filter	F7 (option: G4)	F7 (option: G4)
Connected air duct diameter [mm]	160	160
Weight [kg]	64	64
Heat recovery efficiency [%]	85–92	73–91
Heat exchanger type	counter-flow	counter-flow
Heat exchanger material	polystyrene	enthalpy
SEC class	A+	A
ErP	2016, 2018	2016, 2018

KOMFORT EC SB 350(-E)

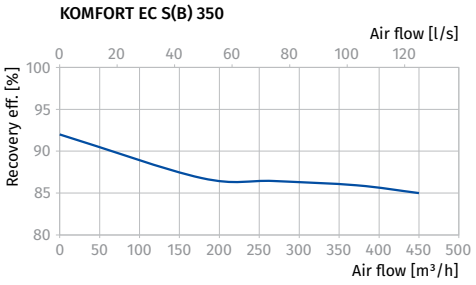
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to supply inlet [dBA]	**56**	50	46	53	45	39	34	36	32		
L_{WA} to supply outlet [dBA]	**64**	56	52	63	52	39	38	43	35		
L_{WA} to exhaust inlet [dBA]	**56**	52	46	53	45	38	34	36	31		
L_{WA} to exhaust outlet [dBA]	**64**	58	53	62	51	40	38	42	33		
L_{WA} to environment [dBA]	**49**	45	40	44	38	33	29	27	22	**28**	**38**

Data provided for point 1 of the air flow diagram

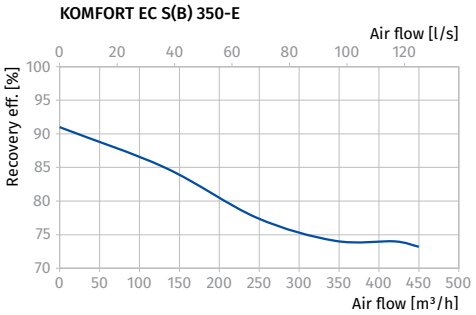
Point	Total power of the unit [W]	Sound pressure level at 3 m (1 m) [dBA]
1	177	28 (38)
2	175	27 (37)
3	170	27 (37)
4	71	23 (33)
5	71	22 (32)
6	69	22 (32)
7	21	15 (25)
8	21	14 (24)
9	21	14 (24)



KOMFORT EC S(B) 350



KOMFORT EC S(B) 350-E



cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

KOMFORT EC SB 350

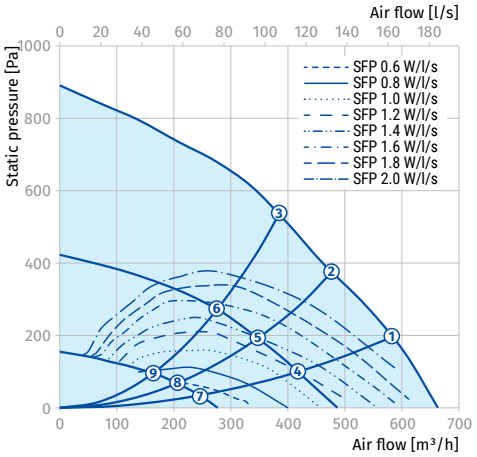
Parameters	KOMFORT EC SB 550 S21 KOMFORT EC SB 550 S14	KOMFORT EC SB 550-E S21 KOMFORT EC SB 550-E S14
Supply voltage [V / 50 (60) Hz]	1~ 230	1~ 230
Power [W]	337	337
Current [A]	2.4	2.4
Maximum air flow [m³/h (l/s)]	660 (183)	660 (183)
RPM [min⁻¹]	2860	2860
Sound pressure level at a distance of 3 m [dBA]	41	41
Transported air temperature [°C]	-25...+40	-25...+40
Casing material	polymer-coated steel	polymer-coated steel
Insulation	40 mm mineral wool	40 mm mineral wool
Extract filter	G4	G4
Supply filter	F7 (option: G4)	F7 (option: G4)
Connected air duct diameter [mm]	200	200
Weight [kg]	82	82
Heat recovery efficiency [%]	85–92	73–91
Heat exchanger type	counter-flow	counter-flow
Heat exchanger material	polystyrene	enthalpy
SEC class	A+	A
ErP	2016, 2018	2016, 2018

KOMFORT EC SB 550(-E)

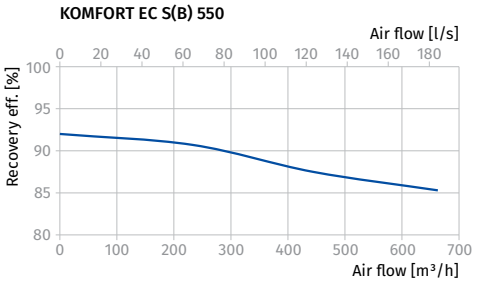
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to supply outlet [dBA]	**75**	51	64	64	63	63	57	53	46	**64**	**54**
L_{WA} to exhaust inlet [dBA]	**62**	45	52	51	48	46	47	32	26	**51**	**42**
L_{WA} to environment [dBA]	**61**	46	50	51	49	47	42	38	32	**40**	**50**

Data provided for point 1 of the air flow diagram

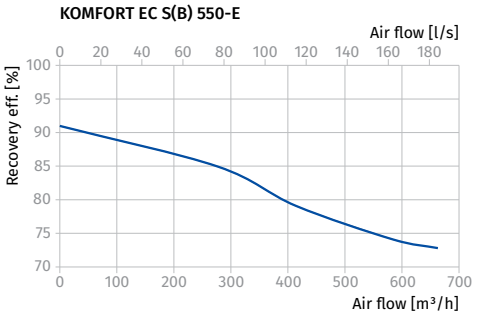
Point	Total power of the unit [W]	Sound pressure level at 3 m (1 m) [dBA]
1	334	39 (49)
2	327	38 (48)
3	282	37 (47)
4	169	29 (38)
5	164	28 (38)
6	162	27 (37)
7	25	15 (25)
8	24	14 (24)
9	23	13 (23)



KOMFORT EC S(B) 550



KOMFORT EC S(B) 550-E



Accessories

		KOMFORT EC SB 250(-E) S21	KOMFORT EC SB 250(-E) S14	KOMFORT EC SBE 250(-E) S21
G4 panel filter		FP 500x170x48 G4	FP 500x170x48 G4	FP 500x170x48 G4
G4 panel filter		FP 340x170x48 G4	FP 340x170x48 G4	FP 340x170x48 G4
F7 panel filter		FP 340x170x48 F7	FP 340x170x48 F7	FP 340x170x48 F7
Control panel		S22	–	S22
Wireless control panel		S22 Wi-Fi	–	S22 Wi-Fi
LCD control panel		S25	–	S25
Humidity sensor		FS2	FS2	FS2
CO_2 sensor with indication		CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S
VOC sensor		DPWQ30600	–	DPWQ30600
CO_2 sensor		DPWQ40200	–	DPWQ40200
Humidity sensor		DPWC11200	–	DPWC11200
Kitchen exhaust hood		DAH 251-13	DAH 251-13	DAH 251-13
Electric preheater		–	–	–
Electric reheater		ENH-160 S21 V.2	–	ENH-160 S21 V.2
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	–
Air damper		VKA 160	VKA 160	VKA 160
Electric actuator		TF230	TF230	TF230
Summer block		–	–	–

		KOMFORT EC SB 350(-E) S21	KOMFORT EC SB 350(-E) S14	KOMFORT EC SB 550(-E) S21	KOMFORT EC SB 550(-E) S14
G4 panel filter		–	–	–	–
G4 panel filter		FP 500x196x40 G4	FP 500x196x40 G4	FP 630x198x40 G4	FP 630x198x40 G4
F7 panel filter		FP 500x196x40 F7	FP 500x196x40 F7	FP 630x198x40 F7	FP 630x198x40 F7
Control panel		S22	–	S22	–
Wireless control panel		S22 Wi-Fi	–	S22 Wi-Fi	–
LCD control panel		S25	–	S25	–
Humidity sensor		FS2	FS2	FS2	FS2
CO_2 sensor with indication		CD-1	CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S	HR-S
VOC sensor		DPWQ30600	–	DPWQ30600	–
CO_2 sensor		DPWQ40200	–	DPWQ40200	–
Humidity sensor		DPWC11200	–	DPWC11200	–
Kitchen exhaust hood		DAH 251-13	DAH 251-13	DAH 251-13	DAH 251-13
Electric preheater		EVH 160 S21 V.2	–	EVH 200 S21 V.2	–
Electric reheater		ENH 160 S21 V.2	–	ENH 200 S21 V.2	–
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32	SFK 20x32
Air damper		VKA 160	VKA 160	VKA 200	VKA 200
Electric actuator		TF230	TF230	TF230	TF230
Summer block		–	–	–	–

KOMFORT ERV EC DB S14

Suspended heat and energy recovery air handling units

Features

- Air handling units for efficient supply and exhaust ventilation in flats, houses, cottages and other buildings.
- Reduction of load on air conditioning systems in a hot climate and heat loss in a cold climate due to heat and moisture recovery.
- Control of air exchange for creating comfortable indoor microclimate.
- Compatible with round ∅ 100 or 150 mm air ducts.

Air flow:
up to 430 m³/h
119 l/s

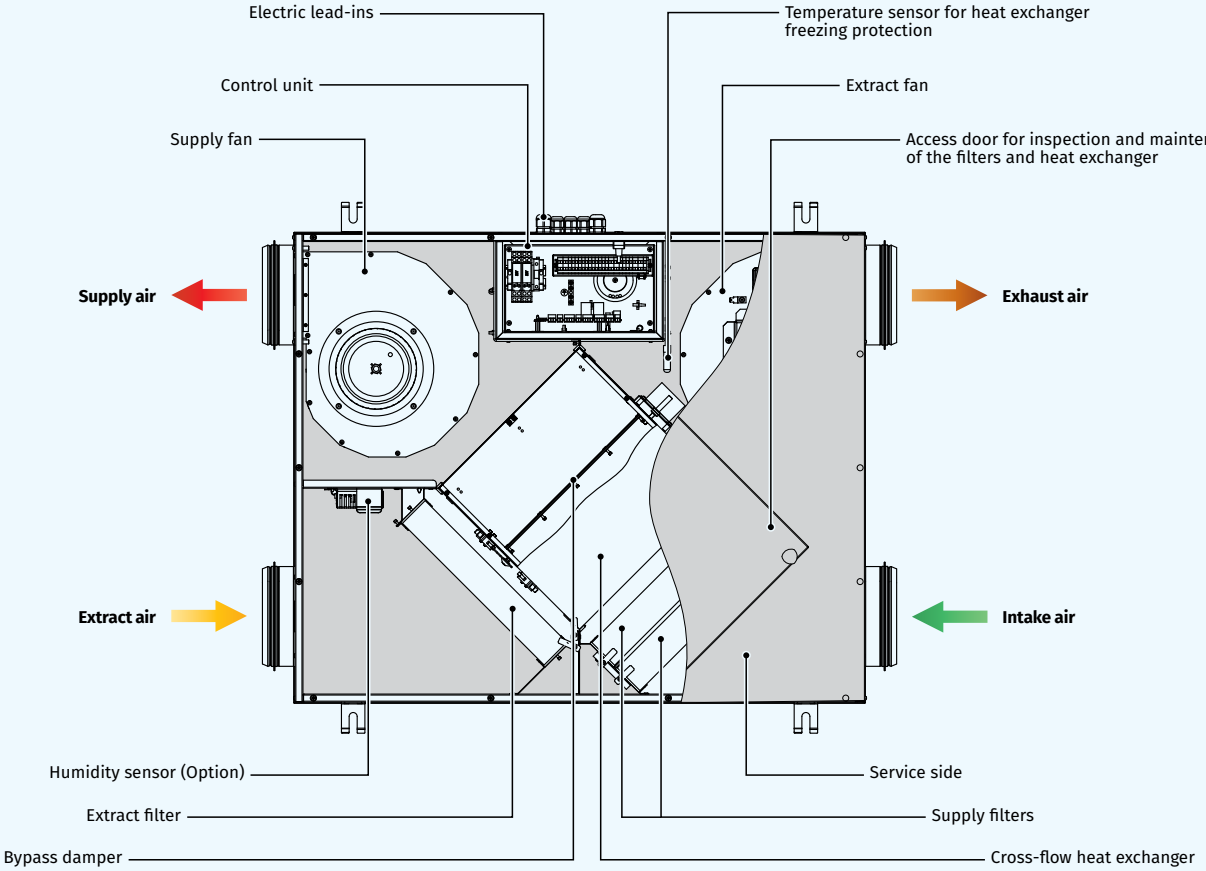
Heat recovery efficiency:
up to 85 %

Design

- The casing is made of polymer coated steel panels, internally filled with foamed polyurethane layer 5–10 mm (depend on modification) for heat- and sound insulation.
- The unit is equipped with a removable bottom panel for ease of maintenance. This service panel is used to access the filters and the heat exchanger for maintenance operations.
- The spigots are located at the sides of the unit and are equipped with rubber seals for airtight connection to the air ducts.
- The casing is equipped with fixing brackets to suspend the unit to the ceiling.

Fans

- The unit is equipped with high efficient external rotor EC motors used for air supply and exhaust.
- The **KOMFORT ERV EC DB250 S14** units are equipped with a centrifugal impeller with forward curved blades and the **KOMFORT ERV EC DB350 S14** units – with backward curved blades.
- EC motors have the best power consumption to air flow ratio and meet the latest demands concerning energy saving and high efficient ventilation.
- EC motors are featured with high performance, low noise level and totally controllable speed range.
- The impellers are dynamically balanced.



Heat Recovery

- The unit is equipped with an enthalpy plate cross-flow heat exchanger for enegry (heat and humidity) recovery. Due to humidity recovery condensate is not generated in the enthalpy heat exchanger.
- The air flows are completely separated in the heat exchanger. Thus smells and contaminants are not transferred from the extract air to the supply air.
- Heat recovery is based on heat and/or humidity transfer through the heat exchanger plates. In the cold season supply air is heated in the heat exchanger by transferring the heat energy of warm and humid extract air to the cold fresh air. Heat recovery minimizes ventilation heat losses and heating costs respectively.
- In the warm season the heat exchanger performs reverse and intake air is cooled in the heat exchanger by the cool extract air. That reduces operation load on air conditioners and saves electricity.

FROST PROTECTION

- The integrated automatic freeze protection is used to prevent freezing of the heat exchanger in the cold season. The supply fan turns off according to the temperature sensor to get the heat exchanger warmed up with extract air. After that the supply fan turns on and the unit continues to run in the standard mode.

Air Filtration

- Two built-in G4 and F8 filters provide efficient supply air filtration.
- The G4 filter is used for extract air filtration.

Bypass

- The units are equipped with a bypass for summer ventilation (air cooling by the cool air from outside).

Control and Automation

- The **KOMFORT ERV EC DB S14** units have an integrated control system with a wall-mounted control panel S14 with a LED indication. The units are equipped with a USB connector (Type B) and can be connected to a PC for configuring the advanced settings in a special software.
- The standard delivery set includes a 10 m cable for connection of the unit to the control panel.
- **S14 automation functions:**
  - Unit On/Off.
  - Unit performance control (selection of Low, Medium or High speed).
  - Bypass damper opening and closing for summer ventilation.
  - Alarm indication.
  - Filter maintenance indication.
- **Additional functions of the S14 automation with installed software:**
  - Fan speed adjustment from 0 to 100 %. Each speed is individually adjusted for the supply and the extract fans.
  - Operation control on feedback from the FS2 duct humidity sensor (to be ordered separately).
  - Unit operation setting according to the external control unit (to be ordered separately).
  - Temperature setting for freeze protection system activation.
  - Control and operation adjustment of the filter maintenance timer
  - External relay control unit and humidity level control.
  - Software version upgrading.

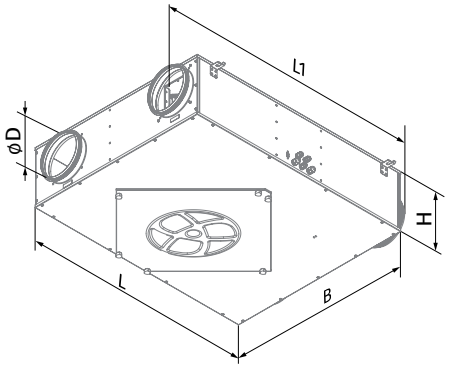
Mounting

- Due to a low casing height the air handling units are a perfect solution for space restricted installation above suspended ceilings.
- The unit mounting position must provide access for service maintenance.

Designation key						
Series	**Unit type**	**Motor type**	**Mounting type**	**Bypass**	**Rated air flow [m³/h]**	**Control**
KOMFORT	**ERV:** energy recovery ventilation	**EC:** electronically commutated motor	**D:** suspended mounting, horizontally oriented spigots	**B:** integrated bypass	**250; 350**	**S14:** sensor control panel with LED indication

Overall Dimensions [mm]

Model	D	B	H	L	L1
KOMFORT ERV EC DB250 S14	149	704	227	947	854
KOMFORT ERV EC DB350 S14	149	754	277	1117	1024



Ordering Information

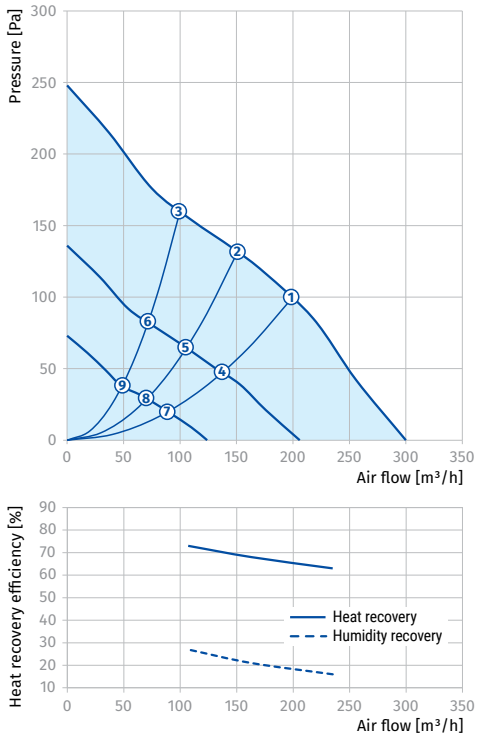
Part Number	Model	Description
BLAKOMFORTERVECDB250S14	KOMFORT ERV EC DB250 S14	EC MOTORS CEILING MOUNTED ENERGY RECOVERY AHU
BLAKOMFORTERVECDB250S14	KOMFORT ERV EC DB350 S14	EC MOTORS CEILING MOUNTED ENERGY RECOVERY AHU

Technical Data

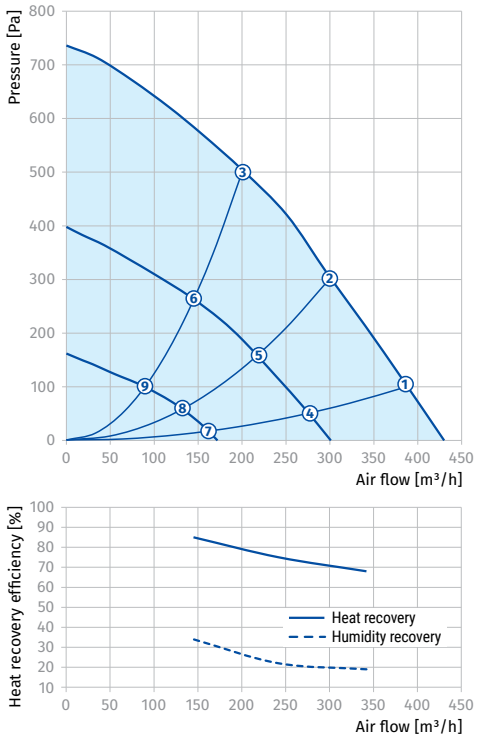
Parameters	KOMFORT ERV EC DB250 S14	KOMFORT ERV EC DB350 S14
Voltage [V / 50 (60) Hz]	1 ~ 230	1 ~ 230
Power [W]	84	171
Current [A]	0.7	1.3
Maximum air flow [m³/h (l/s)]	300 (83)	430 (119)
RPM [min⁻¹]	2000	3200
Sound pressure level at 3 m [dBA]	36	46
Transported air temperature [°C]	-25...+40	-25...+40
Extract filter	G4	G4
Supply filter	G4 + F8 (PM2.5 > 83 %)	G4 + F8 (PM2.5 > 87 %)
Connected air duct diameter [mm]	150	150
Weight [kg]	29	42
Heat recovery efficiency [%]*	63–73	68–85
Humidity recovery efficiency [%]	16–27	19–34
Heat exchanger type	cross-flow	cross-flow
Heat exchanger material	enthalpy	enthalpy
SEC class	A	A
ErP	2016, 2018	2016, 2018

* Heat recovery efficiency is specified in compliance with EN 13141-7.

KOMFORT ERV EC DB250 S14



KOMFORT ERV EC DB350 S14



Total power of the unit [W]

Point	KOMFORT ERV EC DB250 S14	KOMFORT ERV EC DB350 S14
1	80	147
2	67	145
3	59	144
4	43	75
5	34	73
6	28	70
7	23	21
8	22	21
9	19	20

Accessories

		KOMFORT ERV EC DB250 S14	KOMFORT ERV EC DB350 S14
G4 panel filter		FP 300x220x48 G4	FP 300x270x48 G4
F8 panel filter		FP 300x220x48 F8	FP 300x270x48 F8
Internal humidity sensor		FS2	FS2
CO_2 sensor with indication		CD-1	CD-1
CO_2 sensor		CD-2	CD-2
Humidity sensor		HR-S	HR-S
Air damper		VKA 150	VKA 150
Electric actuator		LF230	LF230

Reneo-Fit D 100 S14

Heat and energy recovery air handling units

Features

- Air handling units for efficient supply and exhaust ventilation in flats and apartments.
- Heat recovery minimizes ventilation heat losses during cold season and reduce air conditioner load during hot season.
- Controllable air exchange for creating the best suitable indoor microclimate.

Air flow:
up to 136 m³/h
38 l/s

Heat recovery efficiency:
up to 94 %

AWARD DESIGN PLUS powered by: ISH

WiFi READY

BMS

Design

- The casing is made of expanded polypropylene (EPP) with high heat- and sound-insulating properties.

Fans

- High-efficient external rotor EC motors and centrifugal impellers with forward curved blades are used for air supply and exhaust.

Air filtration

- Two built-in G4 and F7 filters provide efficient supply air filtration.
- The G4 filter is used for extract air filtration.

Heat recovery

- The **Reneo-Fit D 100** unit is equipped with a counter-flow polysterene heat exchanger for heat recovery. The unit condensate is collected and drained to the drain pan under the heat exchanger.

- The **Reneo-Fit D 100-E** unit is equipped with an enthalpy counter-flow heat exchanger for heat and humidity recovery.

Mounting

- The units are designed for suspended ceiling mounting.
- Service access for maintenance and filter replacement must be provided.

Control and automation

- **Reneo-Fit D 100 S14** units are equipped with an integrated automation system and an S14 wall-mounted control panel with LED-indication.

Automation functions

Functions	Description
Unit control via a remote wired control panel	S14 control panel 
Speed switch	+
Filter replacement indication	by filter timer
Alarm indication	LED indication about alarms
Freeze protection	using cyclical stops of the supply fan
Humidity control	option
CO_2 control	option
Fire alarm sensor connection	option

Option: the functionality is available when purchasing the appropriate accessory (see the "Accessories" section)

Ordering Information

Part Number	Model	Description
BLA RENEO-FIT D 100 S14	Reneo-FIT D 100 S14	Heat and energy recovery air handling unit

Designation key

Series		Casing modification	Casing type	Heater	Nominal size	Modification		Heat exchanger type	Service side	Controller type
Reneo	-	**Fit:** compact	**D:** suspended	**_:** w/o heater	**10:** Nominal airflow	**0:** by default	-	**_:** heat recovery **E:** energy recovery	**_:** universal	**S14**

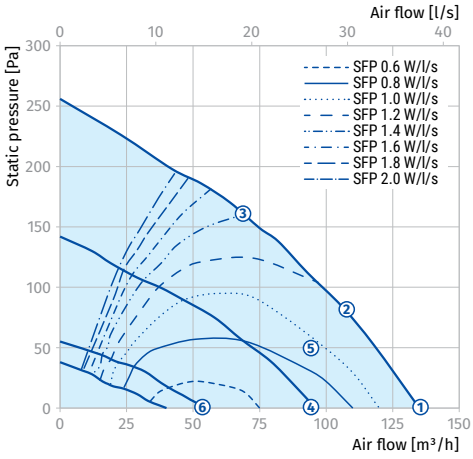
Technical data

Parameters	Reneo-Fit D 100	Reneo-Fit D 100-E
Voltage [V / 50 (60) Hz]	1~ 230	1~ 230
Power [W]	43	43
Current [A]	0.365	0.365
Maximum air flow [m³/h (l/s)]	136 (38)	136 (38)
Sound pressure level at 3 m [dBA]	30	30
Transported air temperature [°C]	−23...+40	−23...+40
Casing material	EPP	EPP
Insulation [mm]	25	25
Extract filter	G4 / Coarse >60 %	G4 / Coarse >60 %
Supply filter	G4 / Coarse >60 % (option: F7 / ePM1 60 %)	G4 / Coarse >60 % (option: F7 / ePM1 60 %)
Connected air duct diameter [mm]	125	125
Weight [kg]	8	8
Heat recovery efficiency [%]	80–94	70–93
Heat exchanger type	counter-flow	counter-flow
Heat exchanger material	polystyrene	enthalpy
SEC class	A+	A

Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		200	400	800	1000	2000	4000	8000	10000		
L_{WA} to supply outlet [dBA]	**59**	45	46	50	51	48	39	39	37	**38**	**48**
L_{WA} to exhaust inlet [dBA]	**46**	35	35	37	36	31	21	23	24	**26**	**35**
L_{WA} to environment [dBA]	**50**	36	39	41	40	37	32	26	25	**30**	**39**

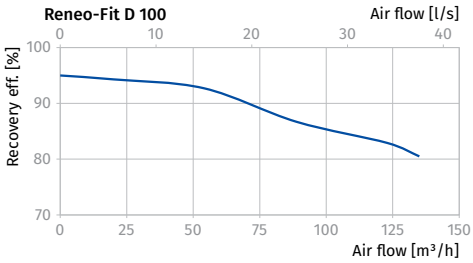
Sound data provided for point 2 on the diagram.

Point	Air flow [m³h (l/s)]	Total sound pressure level (breakout) at 3 m (1 m) distance [dB(A)]
1	135 (37) @ 0 Pa	30 (40)
2	110 (30) @ 84 Pa	30 (39)
3	68 (19) @ 166 Pa	29 (38)
4	95 (26) @ 0 Pa	24 (33)
5	95 (26) @ 50 Pa	22 (32)
6	54 (15) @ 0 Pa	13 (23)



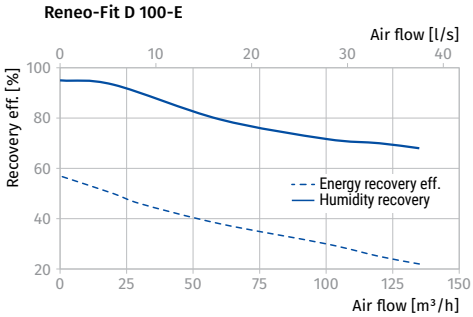
RENEO-FIT D 100

Exhaust terminal configuration	Air flow rate [l/s]	Specific fan power [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional wet room	15	0.6	92
Kitchen + 2 additional wet rooms	21	0.73	88
Kitchen + 3 additional wet rooms	29	0.90	85
Kitchen + 4 additional wet rooms	37	1.20	80



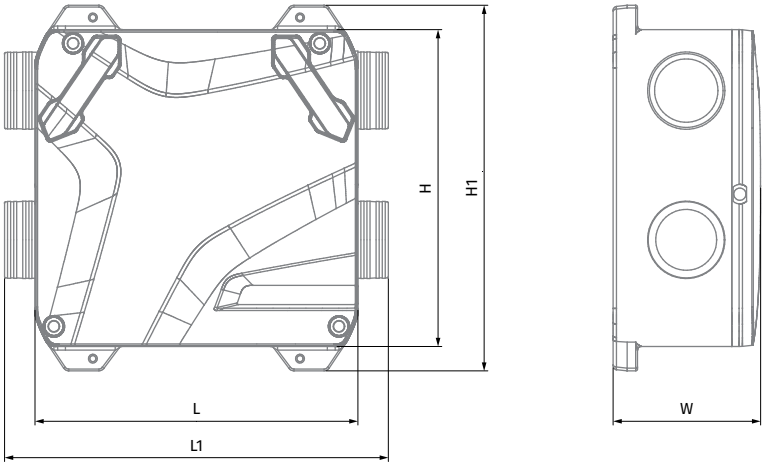
RENEO-FIT D 100-E

Exhaust terminal configuration	Air flow rate [l/s]	Specific fan power [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional wet room	15	0.65	80
Kitchen + 2 additional wet rooms	21	0.75	75
Kitchen + 3 additional wet rooms	29	0.93	71
Kitchen + 4 additional wet rooms	37	1.20	69



Overall Dimensions [mm]

Model	H	H1	L	L1	W
Reneo-Fit D 100(-E) S14	520	600	530	630	242



Accessories

		Reneo-Fit D 100 S14	Reneo-Fit D 100-E S14
G4 panel filter		FP 176x160x22 G4	FP 176x160x22 G4
F7 panel filter		FP 176x160x22 F7	FP 176x160x22 F7
Control panel		S14	S14
Humidity sensor		FS2	FS2
Humidity sensor		HR-S	HR-S
CO_2 sensor		CD-2	CD-2
CO_2 sensor with indication		CD-1	CD-1
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32
Air damper		VKA 125	VKA 125
Electric actuator		TF230	TF230

Reneo S

Heat and energy recovery air handling units

Features

- Air handling units for efficient supply and exhaust ventilation in flats, cottages and other buildings.
- Heat recovery minimizes ventilation heat losses during cold season and reduce air conditioner load during hot season.
- Controllable air exchange for creating the best suitable indoor microclimate.
- Compatible with round Ø 160 mm air ducts.

Air flow:
up to 560 m³/h

Reneo D

Heat and energy recovery air handling units

Features

- Air handling units for efficient supply and exhaust ventilation in flats, houses, cottages and other buildings.
- Heat recovery minimizes ventilation heat losses during cold season and reduces air conditioner load during hot season.
- Controllable air exchange provides the best indoor microclimate.

Air flow:
up to 250 m³/h

Reneo-Fit D

Heat and energy recovery air handling units

Features

- Air handling units for efficient supply and exhaust ventilation in flats, cottages and other buildings.
- Heat recovery minimizes ventilation heat losses during cold season and reduce air conditioner load during hot season.
- Controllable air exchange for creating the best suitable indoor microclimate.
- Compatible with Ø 160 mm air ducts.

Air flow:
up to 200 m³/h

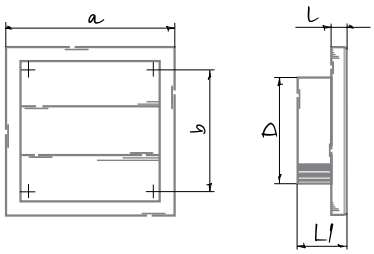
Decor ... G

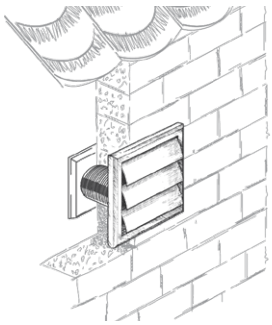
Plastic gravity grilles

Features

- Outer wall mounting
- Equipped with gravity louvre shutters for back flow prevention
- Temperature- and UV-resistant antistatic plastic
- Flush mounted fasteners
- Easy maintenance

Overall Dimensions and Mounting





Model	Dimensions [mm]					Air pass [m²]
	a	b	l	L1	Ø D	
Decor 155x155/100G	154	110	15	–	100	0.0096
Decor 185x185/125G	186	142	15	45	125	0.0113
Decor 250x250/150G	250	214	15	41	150	0.0177-0.056

Ordering Information

Part Number	Model	Description
BLABGR100WHG	Decor 155x155/100G	GRILLE, GRAVITY, WHITE, 100 mm
BLABGR125WHG	Decor 185x185/125G	GRILLE, GRAVITY, WHITE, 125 mm
BLABGR150WHG	Decor 250x250/150G	GRILLE, GRAVITY, WHITE, 150 mm

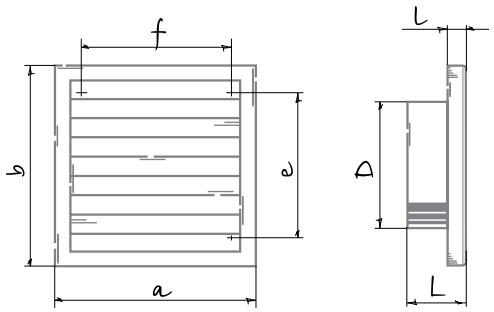
Decor

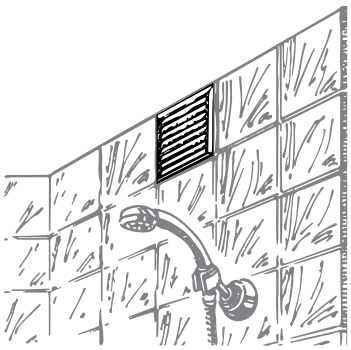
Plastic fixed grilles

Features

- Wall or ceiling mounting
- Temperature- and UV-resistant antistatic plastic
- Flush mounted fasteners
- Equipped with a protecting insect screen (s)
- Easy maintenance

Overall Dimensions and Mounting





Model	Dimensions [mm]						Air pass [m²]
	a	b	L	l	e×f	Ø D	
Decor 155x155/100s	154	154	–	15	110 × 110	100	0.0067
Decor 185x185/125s	186	186	45	15	142 × 142	125	0.0083
Decor 185x185/150s	186	186	45	15	142 × 142	150	0.0083

Ordering Information

Part Number	Model	Description
BLABGR100WHF	Decor 155x155/100s	GRILLE, FIXED, WHITE, 100 mm – C/W INSECT MESH
BLABGR125WHF	Decor 185x185/125s	GRILLE, FIXED, WHITE, 125 mm – C/W INSECT MESH
BLABGR150WHF	Decor 185x185/150s	GRILLE, FIXED, WHITE, 150 mm – C/W INSECT MESH

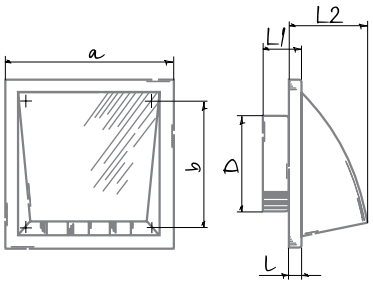
Decor ... HK

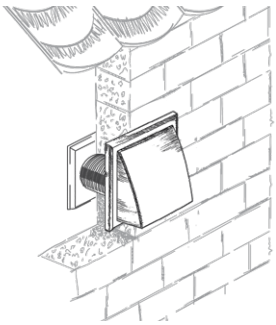
Plastic weatherproof cowl

Features

- Outer wall mounting
- Gravity backdraft damper for back flow prevention
- Protection grille against birds and rodents
- Temperature- and UV-resistant antistatic plastic
- Flush mounted fasteners
- Easy maintenance

Overall Dimensions and Mounting





Model	Dimensions [mm]						Air pass [m²]
	a	b	l	L1	L2	∅ D	
Decor 155x155/100HK	154	110	15	45	87	100	0.008
Decor 185x185/125HK	186	142	15	45	101	125	0.012
Decor 185x185/150HK	186	142	15	50	101	150	0.012

Ordering Information

Part Number	Model	Description
BLABGR100C	Decor 155x155/100HK	GRILLE, COWL, WEATHERPROOF WHITE, 100 mm
BLABGR125C	Decor 185x185/125HK	GRILLE, COWL, WEATHERPROOF WHITE, 125 mm
BLABGR150C	Decor 185x185/150HK	GRILLE, COWL, WEATHERPROOF WHITE, 150 mm

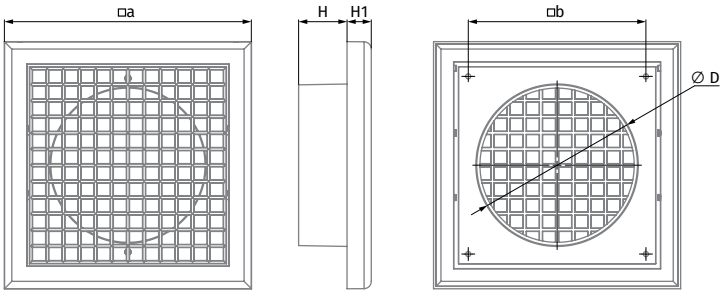
Decor … EG

Plastic eggcrate grilles

Features

- Ceiling mounting
- Easy maintenance
- Connection with rectangular or round ducts
- ABS plastic
- Temperature resistant, UV protected antistatic plastic

Overall Dimensions



Model	Dimensions [mm]					Air pass [m²]
	□ a	□ b	∅ D	H	H1	
DECOR-EG 155x155/100s	153	110	99.5	30	15	0.0072
DECOR-EG 185x185/125s	186	142	124.8	30	15	0.0112
DECOR-EG 185x185/150s	186	142	149.6	35	15	0.0162

Ordering Information

Part Number	Model	Description
BLABGR100WHE	DECOR-EG 155x155/100s	GRILLE, EGGCRATE, WHITE, 100 mm – C/W INSECT MESH
BLABGR125WHE	DECOR-EG 185x185/125s	GRILLE, EGGCRATE, WHITE, 125 mm – C/W INSECT MESH
BLABGR150WHE	DECOR-EG 185x185/150s	GRILLE, EGGCRATE, WHITE, 150 mm – C/W INSECT MESH

DPR

Plastic supply and exhaust diffusers

Features

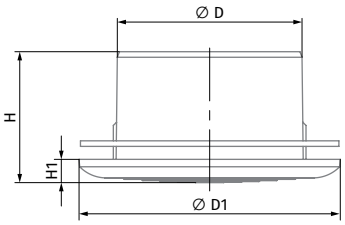
- For supply ventilation, air conditioning and heating.
- Designed for ceiling or soffit mounting
- Used to arrange correct air circulation in premises.
- Temperature resistant, UV protected antistatic plastic

Design

- Made of high quality plastic.
- Special aerodynamic disk valve design ensures uniform air distribution.
- Easy mounting with a mounting flange and a lock ring.
- The internal part has a sealing ring for more tight fit.
- A built-in insect screen.
- Equipped with mounting flanges with a lock ring for easy connection to round ∅ 100-150 mm air ducts.

Overall Dimensions

Model	Dimensions [mm]				Air pass [m²]
	D	D1	H	H1	
DPR 100	100	141	71	12.5	0.006
DPR 125	125	166	72	14	0.010
DPR 150	150	188	72	15	0.014



Ordering Information

Part Number	Model	Description
BLABGR100RG	DPR 100	GRILLE – ROUND – WHITE, 100 mm – C/W INSECT MESH
BLABGR125RG	DPR 125	GRILLE – ROUND – WHITE, 125 mm – C/W INSECT MESH
BLABGR150RG	DPR 150	GRILLE – ROUND – WHITE, 150 mm – C/W INSECT MESH

Plate Mounted Axial Fans

Application

- Suitable for wall mounted applications.

Design

- Galvanised steel fan casing, incorporate a corrosion resistant inlet finger guard as standard.

Motor

- TEFC type in 415 V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240 V single phase & 415 V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

SS & Heavy Duty Roof Mounted Axial Fans – Vertical Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees. They are suitable for wide range of ventilation applications including industrial and commercial requiring medium to large air volumes and incorporate low loss non-return weather shutter.

Design

- High efficiency axial impeller with TEFC motor. Hot Dipped Galvanised steel fan casing with galvanised sheet steel vertical cowl.

Motor

- Motors are TEFC type and available in 415V three-phase only. Motors are speed controllable using variable frequency control. Options include motors complying with Exe, Exd, Exn etc. Standards.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or other information required.

Inline Axial Fans

Application

- Suitable for mounting in any position, has flanged ends for ease of installation to ductwork. These units incorporate a viewing port and external terminal box. Mounting feet, inlet cones and matching flanges are also available as optional extras.

Design

- Mild steel fan casing with hot-dip galvanised finish.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Inline Axial Fans Ex'd'

Application

- Ex'd axial fans incorporate a flameproof motor and anti-static impellor. Typical applications include battery exhaust rooms and paint spray booths.
- Mounting feet, inlet cones and matching flanges are available as options.

Design

- Mild steel fan casing with hot-dip galvanised finish.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.

Protection

- IP55

Impeller

- High efficiency anti-static axial impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or other information required.

Plate Mounted Axial Fans

Application

- Suitable for wall or panel mounted applications.
- Incorporated finger guard on the fan inlet comes as standard.

Design

- Galvanised steel fan casing with powder coated finish on most sizes.

Motor

- External rotor motor in 240V single phase and 415V three phase with two, four and six pole options. Motors are speed controllable.
- All three phase motors incorporate 2-speed Star/Delta motors.

Protection

- IP44 with integral thermal protection.

Impeller

- High efficiency fixed pitch axial impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or any other information required.

Plate Mounted Axial Fans Ex'd'

Application

- The pre-engineered plate mounted fans incorporate a flameproof motor and anti-static impellor. Typical applications include battery exhaust rooms and paint spray booths.
- Incorporated finger guard on the fan inlet comes as standard.

Design

- Galvanised steel fan casing.

Motor

- Available in 240V single phase only. Motors are not speed controllable.

Impeller

- High efficiency anti-static axial impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or any other information required.

Roof Air Cowl – Vertical Discharge

Application

- Designed for roof installations, they incorporate low loss design and are suitable for most general ventilation exhaust systems.

Design

- Galvanised steel base, windband and non-return shutter. Standard colour is “Dune” and other colours are available on request.
- Lifting lugs are provided for ease of lifting and installation and are standard on all sizes.
- Optional aluminium non return shutters are available for low airflow applications.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Air Cowl – Horizontal Discharge

Application

- Designed for roof installations, they incorporate low loss design and are suitable for most general ventilation exhaust systems.

Design

- Galvanised steel base and cowl. Larger sizes have galvanised steel base UV stabilised cowl. Standard colour is “Dune” and other colours are available on request.
- Lifting lugs are provided for ease of lifting and installation on all larger sizes.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Axial Fans – Horizontal Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees. They are suitable for wide range of ventilation applications including industrial and commercial requiring small to large air volumes and incorporate low loss non-return weather shutter.

Design

- Galvanised steel base and UV stabilised cowl. Colour 'Dune' as standard, other colours available upon request.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.
- Motors are TEFC type and available in 415V three-phase only. Motors are speed controllable using variable frequency control. Options include motors complying with Exe, Exd, Exn etc. Standards.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Axial Fans – Supply Air

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees. They are suitable for wide range of ventilation applications including industrial and commercial requiring small to large air volumes.

Design

- Galvanised steel base and UV stabilised cowl.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Axial Fans – Vertical Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees. They are suitable for wide range of ventilation applications including industrial and commercial requiring small to large air volumes and incorporate low loss non-return weather shutter.

Design

- Galvanised steel base and powder coated cowl.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors fitted are IP55. Higher degrees of protection are available as options if required.

Impeller

- High efficiency adjustable pitch axial impeller. Impeller options include Aluminium, GRP/Nylon and Anti-static.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Centrifugal Fans – Horizontal Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees, they are suitable for a wide range of ventilation applications including domestic, industrial and commercial requiring small to large air volumes and medium to high pressures.

Design

- Galvanised steel base and UV stabilised cowl.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors are rated to IP54. Higher levels of protection are available.

Impeller

- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Centrifugal Fans – Supply Air

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees, they are suitable for a wide range of ventilation applications including domestic, industrial and commercial requiring small to large air volumes and medium to high pressures.

Design

- Galvanised steel base and UV stabilised cowl.

Motor

- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.

Protection

- IP54 with integral thermal protection.

Impeller

- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Centrifugal Fans – Vertical Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees, they are suitable for a wide range of ventilation applications including domestic, industrial and commercial requiring small to large air volumes and medium to high pressures.

Design

- Galvanised steel base and powder coated cowl.

Motor

- TEFC type in 415V three-phase only. Motors are speed controllable using variable frequency control.
- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.
- Options include motors complying with Exe, Exd, Exn etc. Standards, no external terminal box supplied for these options.

Protection

- Standard motors are rated to IP54. Higher levels of protection are available.
- Metal construction complies with the requirements or AS1668 for kitchen exhaust applications.

Impeller

- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Roof Mounted Centrifugal TEFC Fans – Vertical Discharge

Application

- Designed for roof installations, up to a maximum pitch of 15 degrees, they are suitable for a wide range of ventilation applications including domestic, industrial and commercial requiring small to large air volumes and medium to high pressures.

Design

- Galvanised steel base and powder coated cowl. Larger sizes have a galvanised steel base and UV stabilised cowl.

Motor

- TFEC type available only in 415V three phase with four, six and eight pole options. Motors are speed controllable using variable frequency control.
- Options include 2 speed motors and motors comply with Exe, Exd, Exn etc. Standards.

Protection

- Standard motors are rated to IP55. Higher levels of protection are available.

Impeller

- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergvventilation.com.au for all technical data, fan curves, noise specification or any other information required.

Short Case Axial Fans

Application

- Suitable for duct mounting in any position, with a compact flanged casing for ease of installation to ductwork.

Design

- Galvanised steel fan casing with powder coated finish.

Motor

- External rotor motor in 240V single phase & 415V three phase, four and six pole options. Motors are speed controllable.

Protection

- IP54 with integral thermal protection.

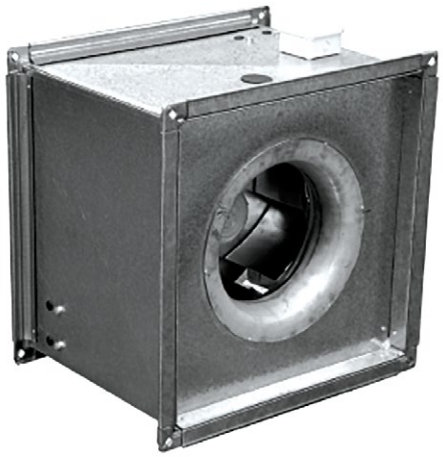
Impeller

- High efficiency fixed pitch axial impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or any other information required.

Square Inline Centrifugal Fans



Application

- Suitable for duct mounting in any position. They are suitable for a wide range of ventilation applications including car parks, kitchen exhaust, supply and return air where medium to high pressures are required.

Design

- Galvanised steel fan casing with flanged end connections.

Motor

- External rotor motor in 240V single phase and 415V three phase with four, six and eight pole options. Motors are speed controllable.
- All three phase motors incorporate 2-speed Star/Delta motors.

Protection

- IP54 with integral thermal protection.

Impeller

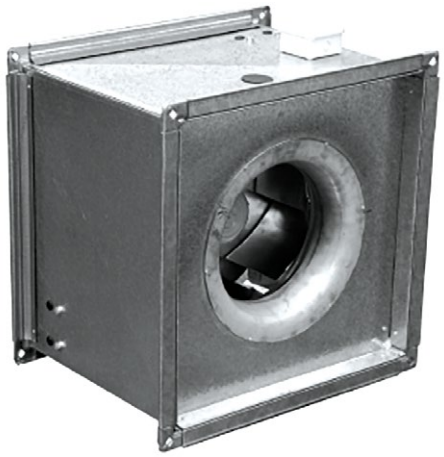
- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or any other information required.

TEFC

Square Inline Centrifugal Fans



Application

- Suitable for duct mounting in any position, they are suitable for a wide range of ventilation applications including car parks, kitchen exhaust, supply and return air where medium to high pressures are required.

Design

- Galvanised steel fan casing with flanged end connections.

Motor

- TFEC type available only in 415V three phase with four, six and eight pole options. Motors are speed controllable using variable frequency control.
- Options include 2 speed motors and motors comply with Exe, Exd, Exn etc. Standards.

Protection

- IP55 with integral thermal protection. Higher degrees of protection are available.

Impeller

- High efficiency backward curved impellor.

Technical Data & Specification

- Email info@blaubergventilation.com.au for all technical data, sizes, fan curves, noise specification or any other information required.

Duct Fittings

BLAUBERG Y JUNCTIONS – PLASTIC NON INSULATED

Product Code	Product Description
BLA644	150/100/100 Y junction – non insulated
BLA666	150/150/150 Y junction – non insulated
BLA1088	250/200/200 Y junction – non insulated
BLA1288	300/200/200 Y junction – non insulated
BLA121010	300/250/250 Y junction – non insulated
BLA121212	300/300/300 Y junction – non insulated
BLA141010	350/250/250 Y junction – non insulated
BLA141210	350/300/250 Y junction – non insulated
BLA141212	350/300/300 Y junction – non insulated
BLA141410	350/350/250 Y junction – non insulated
BLA141414	350/350/350 Y junction – non insulated

BLAUBERG Y JUNCTIONS – PLASTIC INSULATED

Product Code	Product Description
BLA644INS	150/100/100 Y junction – insulated
BLA666INS	150/150/150 Y junction – insulated
BLA1088INS	250/200/200 Y junction – insulated
BLA1288YINS	300/200/200 Y junction – insulated
BLA121010YINS	300/250/250 Y junction – insulated
BLA121212INS	300/300/300 Y junction – insulated
BLA141010YINS	350/250/250 Y junction – insulated
BLA141210INS	350/300/250 Y junction – insulated
BLA141212INS	350/300/300 Y junction – insulated
BLA141410YINS	350/350/250 Y junction – insulated
BLA141414INS	350/350/350 Y junction – insulated

BLAUBERG SINGLE BRANCH TAKE OFF – PLASTIC NON INSULATED

Product Code	Product Description
BLA666BTO	150/150/150 Branch take off – non insulated
BLA866BTO	200/150/150 Branch take off – non insulated
BLA888BTO	200/200/200 Branch take off – non insulated
BLA101010BTO	250/250/250 Branch take off – non insulated
BLA10106BTO	250/250/150 Branch take off – non insulated
BLA10108BTO	250/250/200 Branch take off – non insulated
BLA1066BTO	250/150/150 Branch take off – non insulated
BLA1086BTO	250/200/150 Branch take off – non insulated
BLA1088BTO	250/200/200 Branch take off – non insulated
BLA121010BTO	300/250/250 Branch take off – non insulated
BLA12106BTO	300/250/150 Branch take off – non insulated
BLA12108BTO	300/250/200 Branch take off – non insulated
BLA121210BTO	300/300/250 Branch take off – non insulated
BLA12126BTO	300/300/150 Branch take off – non insulated
BLA12128BTO	300/350/200 Branch take off – non insulated
BLA1288BTO	300/200/200 Branch take off – non insulated
BLA141010BTO	350/250/250 Branch take off – non insulated
BLA141210 BTO	350/300/200 Branch take off – non insulated
BLA141212 BTO	350/300/300 Branch take off – non insulated
BLA14126 BTO	350/300/150 Branch take off – non insulated
BLA14128 BTO	350/300/200 Branch take off – non insulated
BLA141410 BTO	350/350/250 Branch take off – non insulated
BLA141412 BTO	350/350/300 Branch take off – non insulated
BLA14146 BTO	350/350/150 Branch take off – non insulated
BLA14148 BTO	350/350/200 Branch take off – non insulated

BLAUBERG SINGLE BRANCH TAKE OFF – PLASTIC INSULATED

Product Code	Product Description
BLA666BTOINS	150/150/150 Branch take off – insulated
BLA866BTOINS	200/150/150 Branch take off – insulated
BLA888BTOINS	200/200/200 Branch take off – insulated
BLA101010BTOINS	250/250/250 Branch take off – insulated
BLA10106BTOINS	250/250/150 Branch take off – insulated
BLA10108BTOINS	250/250/200 Branch take off – insulated
BLA1066BTOINS	250/150/150 Branch take off – insulated
BLA1086BTOINS	250/200/150 Branch take off – insulated
BLA1088BTOINS	250/200/200 Branch take off – insulated
BLA121010BTOINS	300/250/250 Branch take off – insulated
BLA12106BTOINS	300/250/150 Branch take off – insulated
BLA12108BTOINS	300/250/200 Branch take off – insulated
BLA121210BTOINS	300/300/250 Branch take off – insulated
BLA12126BTOINS	300/300/150 Branch take off – insulated
BLA12128BTOINS	300/350/200 Branch take off – insulated
BLA1288BTOINS	300/200/200 Branch take off – insulated
BLA141010BTOINS	350/250/250 Branch take off – insulated
BLA141210BTOINS	350/300/200 Branch take off – insulated
BLA141212BTOINS	350/300/300 Branch take off – insulated
BLA14126BTOINS	350/300/150 Branch take off – insulated
BLA14128BTOINS	350/300/200 Branch take off – insulated
BLA141410BTOINS	350/350/250 Branch take off – insulated
BLA141412BTOINS	350/350/300 Branch take off – insulated
BLA14146BTOINS	350/350/150 Branch take off – insulated
BLA14148BTOINS	350/350/200 Branch take off – insulated

BLAUBERG DOUBLE BRANCH TAKE OFF – PLASTIC NON INSULATED

Product Code	Product Description
BLA8666BTO	200/150/150/150 Double branch take off – non insulated
BLA8866BTO	200/200/150/150 Double branch take off – non insulated
BLA101066BTO	250/250/150/150 Double branch take off – non insulated
BLA101086BTO	250/250/200/150 Double branch take off – non insulated
BLA101088BTO	250/250/200/200 Double branch take off – non insulated
BLA10666BTO	250/150/150/150 Double branch take off – non insulated
BLA10886BTO	250/200/200/150 Double branch take off – non insulated
BLA10888BTO	250/200/200/200 Double branch take off – non insulated
BLA12101010BTO	300/200/200/200 Double branch take off – non insulated
BLA121066BTO	300/250/150/150 Double branch take off – non insulated
BLA121086BTO	300/250/200/150 Double branch take off – non insulated
BLA121088BTO	300/250/200/200 Double branch take off – non insulated
BLA12121010BTO	300/300/250/250 Double branch take off – non insulated
BLA121266BTO	300/300/150/150 Double branch take off – non insulated
BLA121286BTO	300/300/200/150 Double branch take off – non insulated
BLA121288BTO	300/300/200/200 Double branch take off – non insulated
BLA12866BTO	300/200/150/150 Double branch take off – non insulated
BLA12886 BTO	300/200/200/150 Double branch take off – non insulated
BLA12888BTO	300/200/200/200 Double branch take off – non insulated
BLA14101010BTO	350/250/250/250 Double branch take off – non insulated
BLA14121010BTO	350/300/250/250 Double branch take off – non insulated
BLA14121212BTO	350/300/300/300 Double branch take off – non insulated
BLA141266BTO	350/300/150/150 Double branch take off – non insulated
BLA141286BTO	350/300/200/150 Double branch take off – non insulated
BLA141288BTO	350/300/200/200 Double branch take off – non insulated
BLA14141010BTO	350/350/250/250 Double branch take off – non insulated
BLA14141212BTO	350/350/300/300 Double branch take off – non insulated
BLA141466BTO	350/350/150/150 Double branch take off – non insulated
BLA141486BTO	350/350/200/150 Double branch take off – non insulated
BLA141488BTO	350/350/200/200 Double branch take off – non insulated

BLAUBERG DOUBLE BRANCH TAKE OFF – PLASTIC INSULATED

Product Code	Product Description
BLA8666BTOINS	200/150/150/150 Double branch take off – insulated
BLA8866BTOINS	200/200/150/150 Double branch take off – insulated
BLA101066BTOINS	250/250/150/150 Double branch take off – insulated
BLA101086BTOINS	250/250/200/150 Double branch take off – insulated
BLA101088BTOINS	250/250/200/200 Double branch take off – insulated
BLA10666BTOINS	250/150/150/150 Double branch take off – insulated
BLA10886BTOINS	250/200/200/150 Double branch take off – insulated
BLA10888BTOINS	250/200/200/200 Double branch take off – insulated
BLA12101010BTOINS	300/200/200/200 Double branch take off – insulated
BLA121066BTOINS	300/250/150/150 Double branch take off – insulated
BLA121086BTOINS	300/250/200/150 Double branch take off – insulated
BLA121088BTOINS	300/250/200/200 Double branch take off – insulated
BLA12121010BTOINS	300/300/250/250 Double branch take off – insulated
BLA121266BTOINS	300/300/150/150 Double branch take off – insulated
BLA121286BTOINS	300/300/200/150 Double branch take off – insulated
BLA121288BTOINS	300/300/200/200 Double branch take off – insulated
BLA12866BTOINS	300/200/150/150 Double branch take off – insulated
BLA12886BTOINS	300/200/200/150 Double branch take off – insulated
BLA12888BTOINS	300/200/200/200 Double branch take off – insulated
BLA14101010BTOINS	350/250/250/250 Double branch take off – insulated
BLA14121010BTOINS	350/300/250/250 Double branch take off – insulated
BLA14121212BTOINS	350/300/300/300 Double branch take off – insulated
BLA141266BTOINS	350/300/150/150 Double branch take off – insulated
BLA141286BTOINS	350/300/200/150 Double branch take off – insulated
BLA141288BTOINS	350/300/200/200 Double branch take off – insulated
BLA14141010BTOINS	350/350/250/250 Double branch take off – insulated
BLA14141212BTOINS	350/350/300/300 Double branch take off – insulated
BLA141466BTOINS	350/350/150/150 Double branch take off – insulated
BLA141486BTOINS	350/350/200/150 Double branch take off – insulated
BLA141488BTOINS	350/350/200/200 Double branch take off – insulated

BLAUBERG DUCT REDUCERS – PLASTIC NON INSULATED

Product Code	Product Description
BLA125100R	125/100 Reducer – non insulated
BLA150100R	150/100 Reducer – non insulated
BLA150125R	150/125 Reducer – non insulated
BLA200150R	200/150 Reducer – non insulated
BLA250200R	250/200 Reducer – non insulated
BLA300250R	300/250 Reducer – non insulated
BLA350300R	350/300 Reducer – non insulated

BLAUBERG BACKDRAFT DAMPERS

- Product Description
  - Inline galvanised backdraft damper
- Features
  - For the prevention of air movement in the duct when a fan is not operating

Product Code	Product Description
BLABACKDRAFT100	100 mm Backdraft Damper – Metal
BLABACKDRAFT125	125 mm Backdraft Damper – Metal
BLABACKDRAFT150	150 mm Backdraft Damper – Metal
BLABACKDRAFT200	200 mm Backdraft Damper – Metal
BLABACKDRAFT250	250 mm Backdraft Damper – Metal
BLABACKDRAFT315	315 mm Backdraft Damper – Metal

- Product Description
  - Inline plastic backdraft damper
- Features
  - For the prevention of air movement in the duct when a fan is not operating. For use with 100 mm to 150 mm fans with low pressure curves (Pa).

Product Code	Product Description
BLABBACKDRAFT100	100 mm Backdraft Damper – Plastic
BLABBACKDRAFT125	100 mm Backdraft Damper – Plastic
BLABBACKDRAFT150	150 mm Backdraft Damper – Plastic

BLAUBERG JOINING COLLARS

- Product Description
  - Inline plastic/metal duct joining collar for joining two lengths of ducting together

Product Code	Product Description
BLABDUCTJOINER100	100 mm duct Joiner – Plastic
BLABDUCTJOINER125	125 mm duct Joiner – Plastic
BLABDUCTJOINER150	150 mm duct Joiner – Plastic
BLABDUCTJOINER200	200 mm duct Joiner – Metal
BLABDUCTJOINER250	250 mm duct Joiner – Metal
BLABDUCTJOINER300	300 mm duct Joiner – Metal
BLABDUCTJOINER350	350 mm duct Joiner – Metal
BLABDUCTJOINER350	350 mm duct Joiner – Metal
BLABDUCTJOINER400	400 mm duct Joiner – Metal
BLABDUCTJOINER450	450 mm duct Joiner – Metal

Ducting

BLAUBERG 3 ZERO POLYESTER NUDE CORE DUCT

Product Code	Size
BLADUCT100-3	100 mm×6 m
BLADUCT125-3	125 mm×6 m
BLADUCT150-3	150 mm×6 m
BLADUCT200-3	200 mm×6 m
BLADUCT250-3	250 mm×6 m
BLADUCT300-3	300 mm×6 m
BLADUCT350-3	350 mm×6 m
BLADUCT400-3	400 mm×6 m
BLADUCT450-3	450 mm×6 m
BLADUCT500-3	500 mm×6 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

BLAUBERG 4 ZERO ALUMINIUM/POLYESTER NUDE CORE DUCT

Product Code	Size
BLADUCT100-4	100 mm×6 m
BLADUCT125-4	125 mm×6 m
BLADUCT150-4	150 mm×6 m
BLADUCT200-4	200 mm×6 m
BLADUCT250-4	250 mm×6 m
BLADUCT300-4	300 mm×6 m
BLADUCT350-4	350 mm×6 m
BLADUCT400-4	400 mm×6 m
BLADUCT450-4	450 mm×6 m
BLADUCT500-4	500 mm×6 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

BLAUBERG 3 ZERO – R0.6 POLYESTER INSULATED DUCT

Product Code	Size
BLADUCT100-R0.6	100 mm×6 m
BLADUCT125-R0.6	125 mm×6 m
BLADUCT150-R0.6	150 mm×6 m
BLADUCT200-R0.6	200 mm×6 m
BLADUCT250-R0.6	250 mm×6 m
BLADUCT300-R0.6	300 mm×6 m
BLADUCT350-R0.6	350 mm×6 m
BLADUCT400-R0.6	400 mm×6 m
BLADUCT450-R0.6	450 mm×6 m
BLADUCT500-R0.6	500 mm×6 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

BLAUBERG 3 ZERO – R1.0 POLYESTER INSULATED DUCT

Product Code	Size
BLADUCT100-R1.0	100 mm×6 m
BLADUCT125-R1.0	125 mm×6 m
BLADUCT150-R1.0	150 mm×6 m
BLADUCT200-R1.0	200 mm×6 m
BLADUCT250-R1.0	250 mm×6 m
BLADUCT300-R1.0	300 mm×6 m
BLADUCT350-R1.0	350 mm×6 m
BLADUCT400-R1.0	400 mm×6 m
BLADUCT450-R1.0	450 mm×6 m
BLADUCT500-R1.0	500 mm×6 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

BLAUBERG 3 ZERO – R1.5 POLYESTER INSULATED DUCT

Product Code	Size
BLADUCT100-R1.5	100 mm×6 m
BLADUCT125-R1.5	125 mm×6 m
BLADUCT150-R1.5	150 mm×6 m
BLADUCT200-R1.5	200 mm×6 m
BLADUCT250-R1.5	250 mm×6 m
BLADUCT300-R1.5	300 mm×6 m
BLADUCT350-R1.5	350 mm×6 m
BLADUCT400-R1.5	400 mm×6 m
BLADUCT450-R1.5	450 mm×6 m
BLADUCT500-R1.5	500 mm×6 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

BLAUBERG – SEMI RIGID ALUMINIUM DUCT

Product Code	Size
BLADUCTAN100	100 mm×3 m
BLADUCTAN125	125 mm×3 m
BLADUCTAN150	150 mm×3 m
BLADUCTAN200	200 mm×3 m

All ducting meets the requirements of Australian Standards 4254 and the building codes of Australia for domestic and commercial air handling systems

Blauberg Ventilation
Unit 5, 45A Eastern Creek Drive, Eastern Creek,
NSW 2766, Australia

info@blaubergventilation.com.au
www.blaubergventilation.com.au

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