Civic EC LB V.2

Single-room air handling units



Features

- The **CIVIC EC LB V.2** units for singleroom ventilation of schools, offices, public and commercial premises. Simple and efficient ventilation solution for renovated buildings, with no ductwork required.
- Low-noise operation.
- Easy mounting.

Air flow:
up to 1240 m³/h
344 l/s

Heat recovery efficiency:
up to 96 %

ErP 2018

Wi Fi READY

BMS

Hey Google

Design

- Made of polymer coated steel, internally lined with heat- and sound insulation.
- Built-in preheater and reheater modifications available for cold climate conditions.

Motors

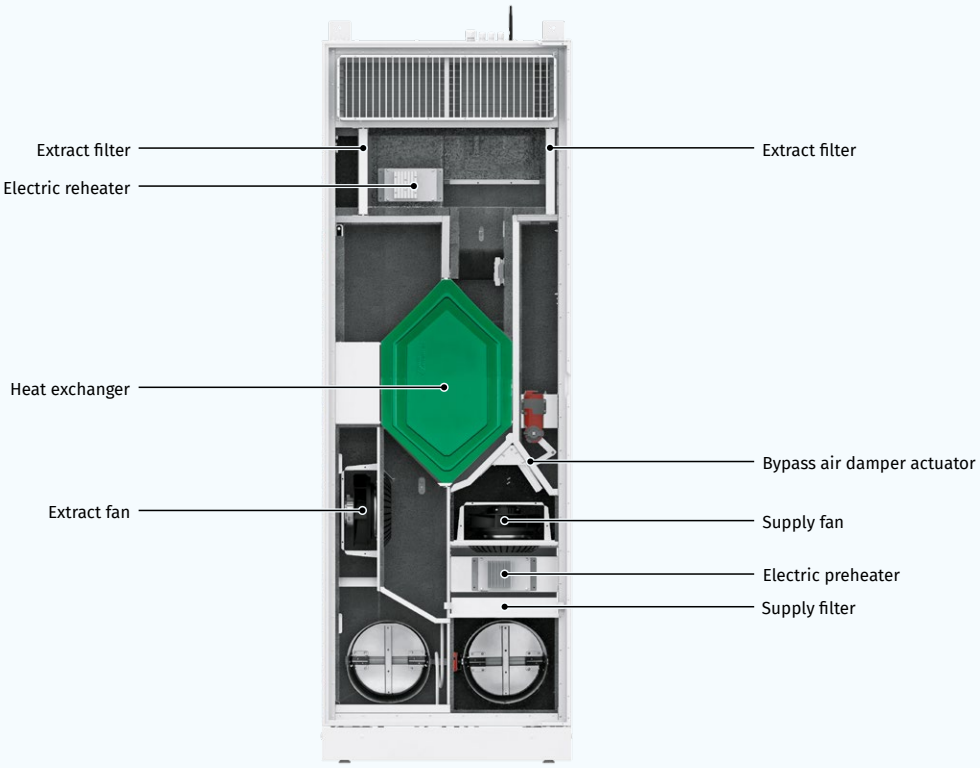
- The units are equipped with high-efficiency EC motors.
- EC motors provide an energy-efficient solution with high performance and full speed control.

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

- **CIVIC EC LBE V.2** and **CIVIC EC LBE2 V.2** units are equipped with an electric preheater.
- **CIVIC EC LBE2 V.2** units feature an electric reheater.

Heat exchanger

- The **CIVIC EC LB V.2** unit has a counter-flow heat exchanger made of polystyrene.



- The **CIVIC EC LB... -E V.2** unit is equipped with a counter-flow heat exchanger made of enthalpy membrane.



Control and automation

- 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

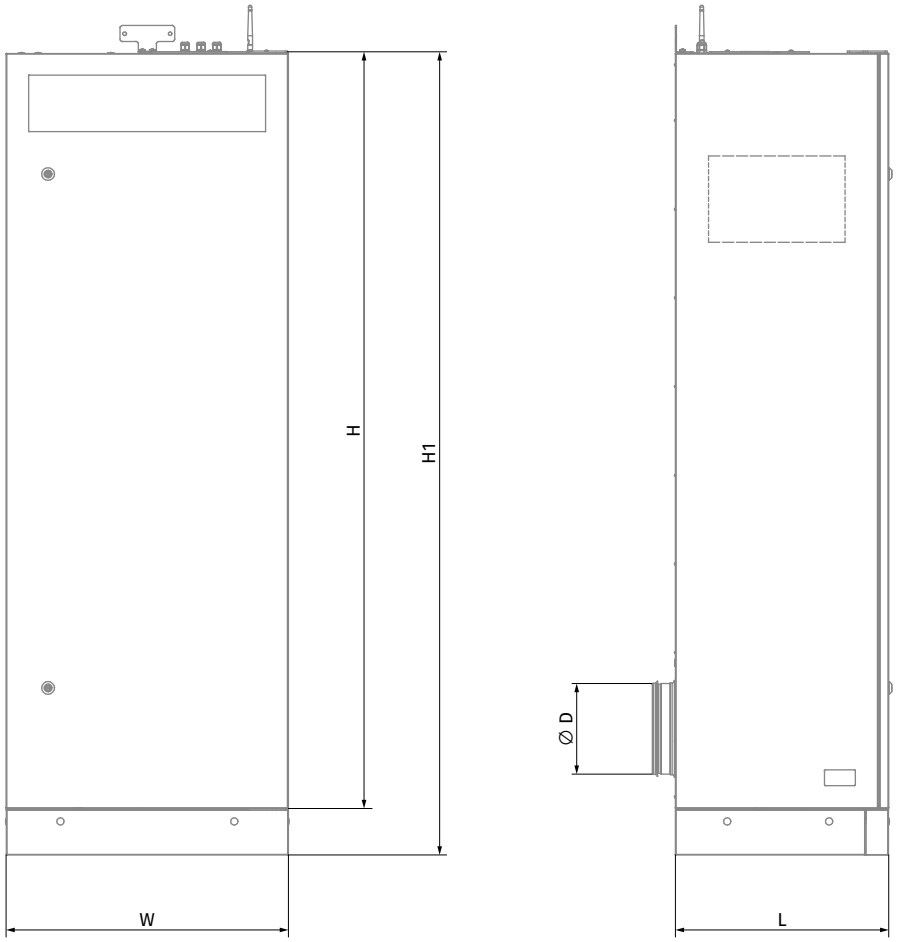
Option: the functionality is available when purchasing the appropriate accessory (see the "Accessories" section)

Designation key

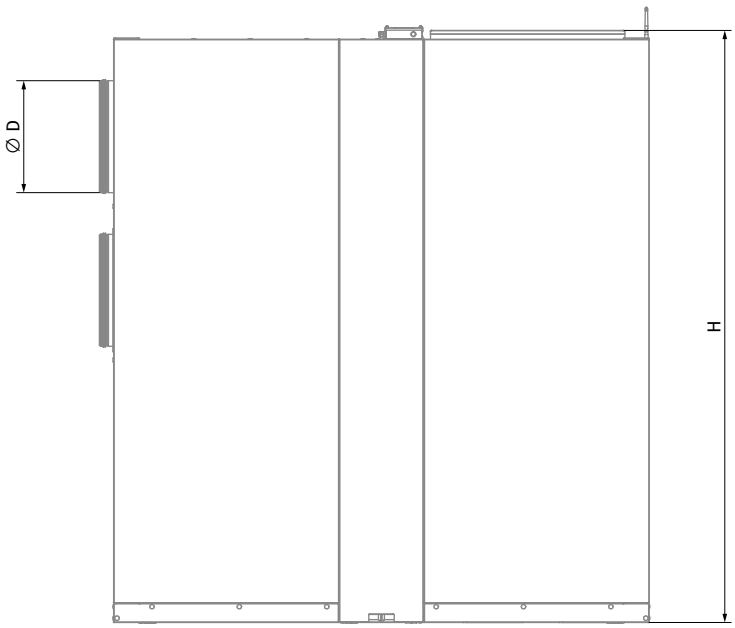
Model	Motor type	Mounting	Bypass	Heater	Drain pump	Rated air flow [m³/h]	Heat exchanger type	Service side (for Civic...1200)	Control	Modernization
CIVIC	**EC:** synchronous electronically commutated motor	**L:** floor mounting	**B:** with bypass	**_:** without heater **E:** preheating **E2:** preheating + reheating	**_:** without drain pump **CP:** with drain pump	**300; 500; 1200**	**_:** heat recovery **-E:** energy recovery	**L:** Left **R:** Right	**S21**	**V.2:** second modernized generation

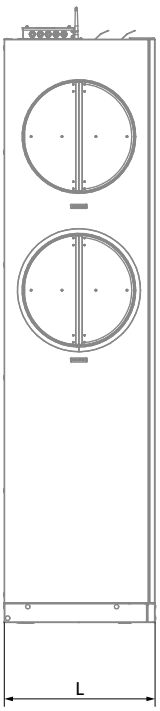
Dimensions [mm]

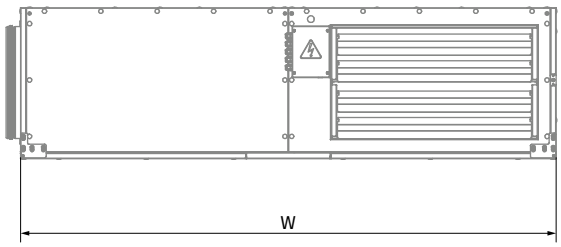
Model	∅ D	H	H1	L	W
CIVIC EC LB 300 V.2	200	1665	1765	469	620
CIVIC EC LB 500 V.2	250	2060	2160	535	750



Model	∅ D	H	L	W
CIVIC EC LB 1200 V.2	400	2100	535	1900







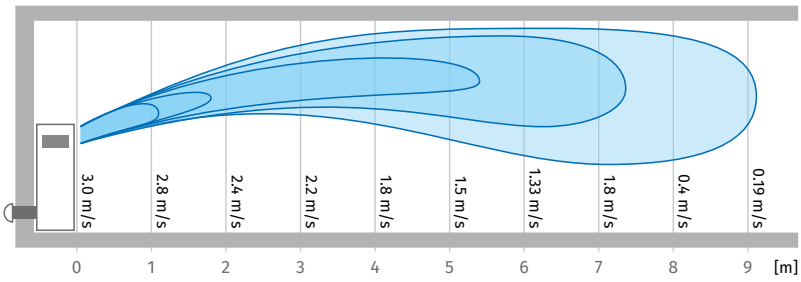
Technical data

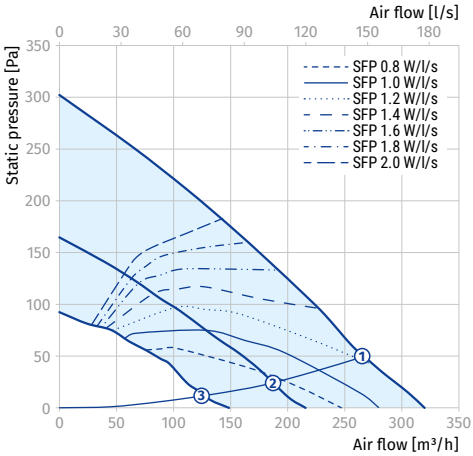
Parameters	Civic EC LB 300 V.2	Civic EC LBE 300 V.2	Civic EC LBE2 300 V.2	Civic EC LB 300-E V.2	Civic EC LBE 300-E V.2	Civic EC LBE2 300-E V.2
Voltage [V / 50-60 Hz]	1~230	1~230	1~230	1~230	1~230	1~230
Max. unit power without electric heater [W]	96	96	96	96	96	96
Integrated electric preheater power [W]	–	1050	1050	–	1050	1050
Integrated electric reheater power [W]	–	–	700	–	–	700
Max. unit power [W]	96	1146	1846	96	1146	1846
Max. unit current [A]	0.75	7	11	0.75	7	11
Air flow [m³/h]	320	320	320	320	320	320
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, mm	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 filters	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)
Connected air duct diameter [mm]	200	200	200	200	200	200
Weight [kg]	100	101	103	100	101	103
Heat recovery efficiency [%]	88	88	88	80	80	80
Heat exchanger type	counter–flow	counter–flow	counter–flow	counter–flow	counter–flow	counter–flow
Heat exchanger material	polystyrene	polystyrene	polystyrene	enthalpy membrane	enthalpy membrane	enthalpy membrane
SEC class	A	A	A	A	A	A

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

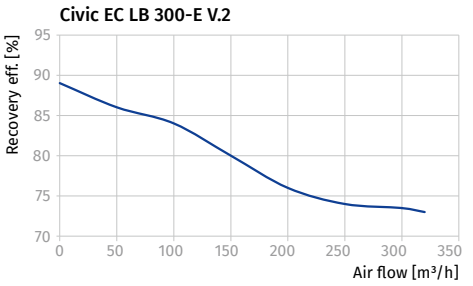
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
L_{WA} to environment, point 1 [dBA]	**58**	43	51	50	49	46	45	32	26	**37**	**47**
L_{WA} to environment, point 2 [dBA]	**49**	32	40	39	41	38	35	22	23	**29**	**38**
L_{WA} to environment, point 3 [dBA]	**42**	26	34	33	36	31	26	19	23	**22**	**31**

FRESH AIR FLOW DISTANCE







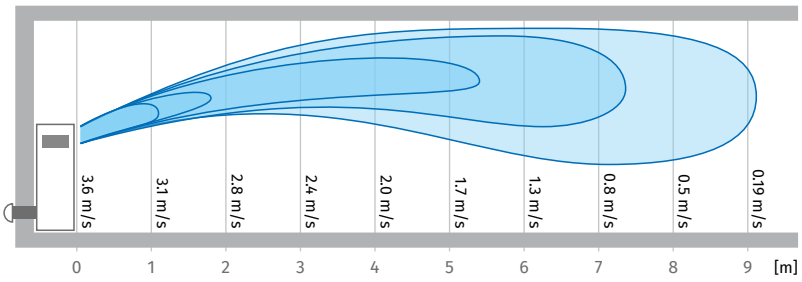


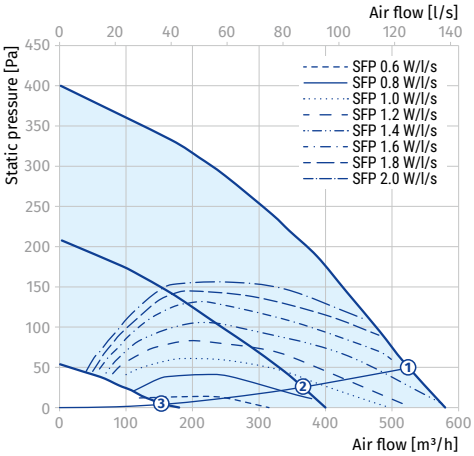
Parameters	Civic EC LB 500 V.2	Civic EC LBE 500 V.2	Civic EC LBE2 500 V.2
Voltage [V / 50-60 Hz]	1~230	1~230	1~230
Max. unit power without electric heater [W]	370	370	370
Integrated electric preheater power [W]	–	1050	1050
Integrated electric reheater power [W]	–	–	700
Max. unit power [W]	370	710	2120
Max. unit current [A]	2.5	9.1	13.3
Air flow [m³/h]	580	580	580
Max. operating temperature [°C]	–25...+40	–25...+40	–25...+40
Case material	polymer coated steel	polymer coated steel	polymer coated steel
Insulation, mm	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)
Supply filters	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)
Connected air duct diameter [mm]	250	250	250
Weight [kg]	139.3	140.8	142.5
Heat recovery efficiency [%]	80	80	80
Heat exchanger type	counter–flow	counter–flow	counter–flow
Heat exchanger material	polystyrene	polystyrene	polystyrene
SEC class	A	A	A

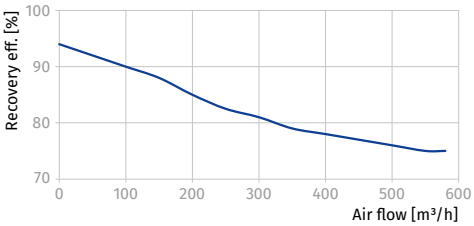
*Heat recovery efficiency is specified in compliance with EN 13141-8.

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 environment, point 1 [dBA]	**57**	45	53	52	47	45	45	30	26	**38**	**47**
L_{WA} to environment, point 2 [dBA]	**49**	30	38	37	38	38	37	24	25	**28**	**39**
L_{WA} to environment, point 3 [dBA]	**40**	20	28	27	29	29	25	20	25	**17**	**27**

FRESH AIR FLOW DISTANCE





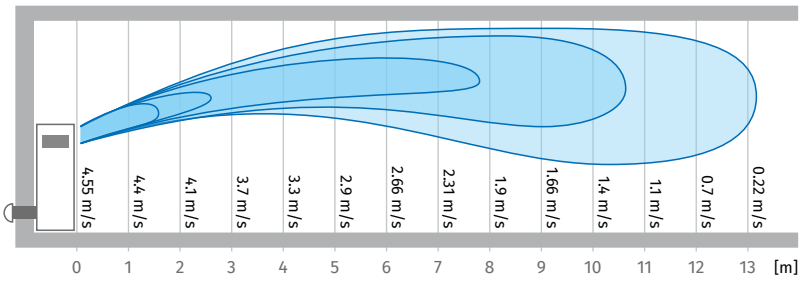


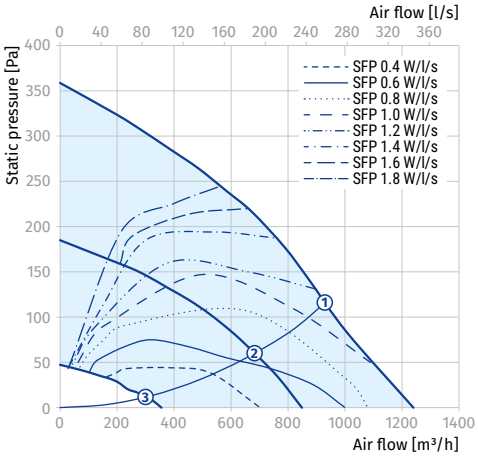
Parameters	Civic EC LB 1200 V.2	Civic EC LBE 1200 V.2	Civic EC LBE2 1200 V.2
Voltage [V / 50-60 Hz]	1~230	3~400	3~400
Max. unit power without electric heater [W]	345	345	345
Integrated electric preheater power [W]	–	3150	3150
Integrated electric reheater power [W]	–	–	2110
Max. unit power [W]	345	3495	5605
Max. unit current [A]	2.3	12	18.7
Air flow [m³/h]	1240	1240	1240
Max. operating temperature [°C]	–25...+40	–25...+40	–25...+40
Case material	polymer coated steel	polymer coated steel	polymer coated steel
Insulation, mm	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)
Supply filters	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)	ISO ePM1 70% (F7)
Connected air duct diameter [mm]	400	400	400
Weight [kg]	352.7	358.3	363.9
Heat recovery efficiency [%]	87	87	87
Heat exchanger type	counter–flow	counter–flow	counter–flow
Heat exchanger material	polystyrene	polystyrene	polystyrene

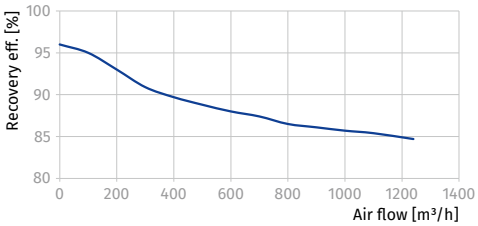
*Heat recovery efficiency is specified in compliance with EN 13141-8.

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 environment, point 1 [dBA]	**50**	31	35	40	37	36	36	28	17	**30**	**40**
L_{WA} to environment, point 2 [dBA]	**47**	27	31	33	29	30	27	22	13	**26**	**36**
L_{WA} to environment, point 3 [dBA]	**32**	21	27	21	25	17	19	24	16	**11**	**21**

FRESH AIR FLOW DISTANCE







Accessories

		Civic EC LB... 300 S21 V.2	Civic EC LB... 500 S21 V.2	Civic EC LB... 1200 S21 V.2
Outer ventilation hood made of brushed stainless steel		AH Civic 300 LB chrome	AH Civic 500 LB chrome	AH Civic 1200 LB chrome
Outer ventilation hood made of white coated stainless steel		AH Civic 300 LB white	AH Civic 500 LB white	AH Civic 1200 LB white
Extract filter ISO Coarse >60 % (G4)		FP 203x308x20 G4 (2 pcs.)	FP 255x448x25 G4 (2 pcs.)	FP 450x395x48 G4
Supply filter ISO ePM1 60 % (F7)		FP 384x273x60 F7	FP 449x318x60 F7	FP 540x450x48 F7
Control panel		S22	S22	S22
Wi-Fi control panel		S22 Wi-Fi	S22 Wi-Fi	S22 Wi-Fi
LCD Control panel		S25	S25	S25
VOC sensor		DPWQ30600	DPWQ30600	DPWQ30600
CO_2 sensor		CD-3	CD-3	CD-3
Internal humidity sensor		FS2	FS2	FS2
Syphon kit		SFK 20x32	SFK 20x32	SFK 20x32
Drain pump		CP-2	CP-2	CP-2