

KOMFORT EC SB550 RANGE S21 WIFI

Heat recovery air handling units Key Points

- Self-contained MVHR whole house heat recovery unit, designed for mounting in a loft or cupboard space.
- Provides a balanced supply of fresh, filtered, heat recovered air to the living areas, whilst simultaneously extracting stale, moist, odorous air from "wet" rooms.
- Control everything from your tablet, iphone, smart phone with built-in Wifi router.
- Dramatically reduces the effects of mould, condensation, CO2 build up, VOC's, damp air and odours.
- Recovers a large percentage of the heat that would otherwise be wasted during conventional ventilation.
- Easy to use controls with optional features including pollen/allergy filters, humidity sensors and CO2 monitoring.
- 5 year Blauberg warranty.

Benefits & Features

- Supply and extract airflow rate of up to 191 l/s (690 m³/hour).
- Summer bypass overrides the heat recovery process in the warmer summer months.
- Extremely low energy consumption with an SFP (specific fan power) as low as 0.58 w/l/s.
- Standard grade G4 filter + F7 pollution/allergy filter.
- Fitted with German Blauberg, low energy EC motors for smooth, silent operation.
- Control everything from your tablet, iphone, smart phone with built-in Wifi router.
- ERP 2016, 2018 and A+ energy rating compliant.
- Holiday, trickle, boost, and purge speed control options.

- Air flow: up to 192 l/s (690 m³/h)

 Heat recovery efficiency: up to 92 %

 Specific fan power (SFP) Down to 0.8 w/l/s.

 Sound pressure level Down to 26 dB(A).

 Meating the second second
- Easy commissioning via built-in runner + app.
- Independent BRE SAP Appendix Q listed (PCDB).
- Optional CO² humidity monitoring. VOC + PM
- Lightweight construction allows easy wall mounting in cupboard or loft space.
- Built-in frost protection.
- Fault and filter change indication as standard.
- Connect to fire alarm, external airflow dampers and cooling equipment.
- Highly efficient G4 & F7 pollen, allergy and hay fever filters fitted as standard.

General Arrangement

• Reversible mounting (left or right handed).

General Technical Data

Parameters	KOMFORT EC SB550	
oltage [V/50-60 Hz]	1 ~ 230	
Power [W]	337	
Current [A]	2.4	
Maximum air flow l/s (m³/h)	192 (690)	
RPM [min ⁻¹]	3860	
Sound pressure level at 3 m [dBA]	26	Bypass —
Transported air temperature [°C]	-25+40	5,500
Casing material	Polymer coated steel	
Insulation	40 mm Mineral wool	Supply fan —
Extract filter	G4	
Supply filter	F7	
Connected air duct diameter [mm]	200	Extract filter —
Weight [kg]	83	
Heat recovery efficiency [%]	84-92	Control unit —
Heat exchanger type	Counter-flow	
Heat exchanger material	Polystyrene	
Mounting type	Wall/Floor	
SEC class for S14 automation	A+	
ErP	2016, 2018	

Design

- The casing is made of high-quality, polymer coated steel, internally filled with a heat- and sound-insulated layer of mineral wool.
- The spigots are located at the top of the unit, and are rubber sealed for airtight connection to the air ducts.
- The units are equipped with either hinged service panel for easy maintenance operations or separate access for quick filter replacement, Depending on the model.

Air filtration

- The built-in F7 supply filter and G4 extract filter provide efficient air filtration.
- KOMFORT EC SB350 units are equipped with F7 supply and G4 extract filters.
- KOMFORT EC SB550 units are equipped with G4 and F7 filters for supply and G4 filters for extract.

Control Functions

Fans

- Highly-efficient EC motors and centrifugal impellers are used for air supply and exhaust.
- EC motors have the best power consumption to air flow ratio and meet the latest demands concerning energy saving and high-efficient ventilation.
- Dynamically balanced impellers.
- EC motors are fully speed controllable.

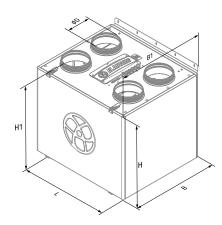
All **KOMFORT EC SB** units have a counter-flow polystyrene heat exchanger that maximises heat recovery efficiency.

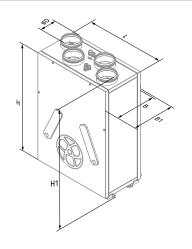


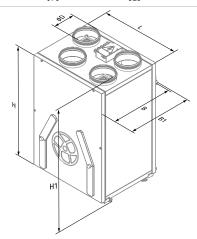
Functions		
Control Functions	Blauberg App	
Speed Switching - Select from trickle, boost and purge ventilation speeds.	√	EAT THE
Simple manual speed control, boost and timer override functions.	\checkmark	Auto
24 hour, 7 day programmable scheduling.	\checkmark	💰 45.59% 📥 31%
Condensation, humidity and temperature monitoring capabilities.	\checkmark	m 2
Allergy sensing, CO2, VOC, Pollen & airborne particle monitoring and control.	\checkmark	*
Auto summer bypass operation to prevent overheating in summer months.	√	- Marcal s
Anti frost protection for increased heat recovery efficiency.	\checkmark	
Dirty filter alarms.	\checkmark	
Simple fault finding menu.	√	
Control of electric and water preheaters, reheaters & coolers.	✓	
Fire alarm connection.	~	

Overall dimensions [mm]

Model	ØD	Ø D1	В	B1	н	H1	L
KOMFORT EC SB350(-E) S21/S14	160	18	583	600	760	675	730
KOMFORT EC SB550(-E) S21/S14	200	18	720	730	760	675	823







KOMFORT EC SB550 S21

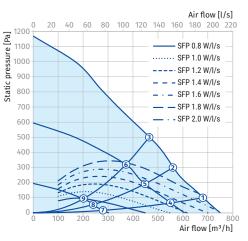
Sound power level, A-filter

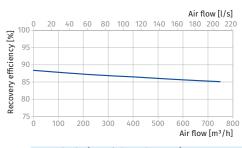
Sound power level, A-weighted	General	Octave frequency band [Hz]							LpA, 3 m	LpA, 1 m	
	General	63	125	250	500	1000	2000	4000	8000	[dBA]	[dBA]
LwA to supply air inlet [dBA]	54	47	42	50	44	41	39	39	31		
LwA to supply air outlet [dBA]	69	63	56	65	59	55	50	52	46		
LwA to exhaust air inlet [dBA]	54	47	41	51	43	33	31	34	30		
LwA to exhaust air outlet [dBA]	65	61	61	61	55	46	43	46	40		
LwA surrounding [dBA]	47	42	42	43	36	31	28	26	21	26	36

* Data provided for point 1 of the air flow diagram

Total power. Total sound pressure level.

Point	Total power of the unit [W]	Sound pressure level at 3 m (1 m) [dBA]
1	332	26 (36)
2	331	26 (36)
3	332	25 (35)
4	133	24 (34)
5	129	24 (34)
6	126	22 (32)
7	32	15 (25)
8	31	14 (24)
9	30	13 (23)





Calculation of the exhaust air temperature:

 $t = t_{outd} + k_{hr} \times (t_{extr} - t_{outd}) / 100,$

where

 $\begin{array}{l} t_{outd} - \text{outdoor air temperature [°C],} \\ t_{extr} - \text{extract air temperature [°C],} \\ k_{hr}^{-} - \text{heat exchanger efficiency} \\ (\text{according to the diagram) [%]} \end{array}$

Energy Rating

ЕПЕРСИЯ- СVСРУСКА СНОРГИЯ- СVСРУСКА (В) (А)
BLAUBERG Komfort EC SB550 S21
A+
B
D
F
47 dB ∢))) 650 m³/h ▲ ↓
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- Meets Ecodesign standards.
- ErP 2016 compliant.

• Meets Ecodesign standards.

• ErP 2018 compliant.