

KOMFORT EC SB350 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.



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.

- 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

ters	KOMFORT EC SB350				
			6	Extract air	Exhaust air Intake air
ltage [V/50-60 Hz]	1 ~ 230		Supply	air	
Power [W]	178		4	• •	
Current [A]	1.4				_ ↓ ♥ ╹
laximum air flow l/s (m³/h)	125 (450)		5	222	Ca
RPM [min ⁻¹]	3200				
ound pressure level at 3 m [dBA]	28	Bypass —			
ransported air temperature [°C]	-25+40				
Casing material	Polymer coated steel	Supply fan			i.
nsulation	40 mm Mineral wool	Supply lull			
xtract filter	G4				
upply filter	F7				
onnected air duct diameter [mm]	160	Extract filter —			
eight [kg]	64				
eat recovery efficiency [%]	85-92	Control unit ——			
eat exchanger type	Counter-flow		Ŧ		
eat exchanger material	Polystyrene				1
ounting type	Wall/Floor				
EC class for S14 automation	A+			0 0	
rP	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.

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.



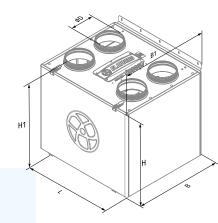
Control Functions

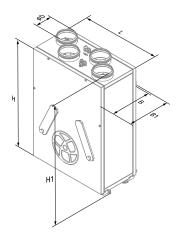
Functions	
Control Functions	Blauberg App
Speed Switching - Select from trickle, boost and purge ventilation speeds.	\checkmark
Simple manual speed control, boost and timer override functions.	✓
24 hour, 7 day programmable scheduling.	✓
Condensation, humidity and temperature monitoring capabilities.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

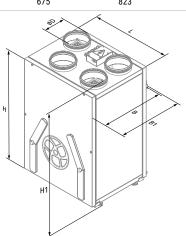


Overall dimensions [mm]

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 SB350 S21

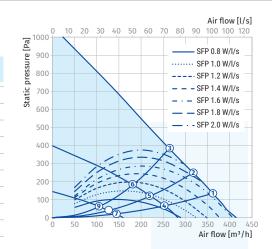
Sound power level, A-filter applied.

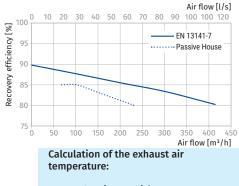
Sound power level,	General	Octave frequency band [Hz]						LpA, 3 m	LpA, 1 m		
A-weighted		63	125	250	500	1000	2000	4000	8000	[dBA]	[dBA]
LwA to supply air inlet [dBA]	56	50	46	53	45	39	34	36	32		
LwA to supply air outlet [dBA]	64	56	52	63	52	39	38	43	35		
LwA to exhaust air inlet [dBA]	56	52	46	53	45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

* 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	165	28 (38)
2	165	27 (37)
3	165	27 (37)
4	63	23 (33)
5	62	22 (32)
6	60	22 (32)
7	21	15 (25)
8	20	14 (24)
9	20	14 (24)





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

where

toutd – outdoor air temperature [°C], textr – extract air temperature [°C], K_{hr} – heat exchanger efficiency (according to the diagram) [%]

Energy Rating

ELAUBERG BLAUBERG BLAUBERG KOMFORT EC SB350 S21 At A B C D E F G 390 m³/h (1)) B390 m³/h (1)) B390 m³/h (1)) B390 m³/h (1)) B390 m³/h (1)) B200 m³/h

1	Accessories				
-			KOMFORT EC SB		KOMFORT EC SB
	G4 Panel Filter		FP 182x254x18 G4 (Fitted as standard)	LCD Display	S25
	F Panel Filter		FP 182x254x18 f7 (Fitted as standard)	External Humidity Sensor	HR-S
	Internal Humidity Sensor	•	FS2	Silenc er	SD-125
GI 14	External CO ₂ Sensor with visual Indication	11 () () () () () () () () () () () () () (CD-1	Electric Actuator	LF230

- **ErP** 2016
 - Meets Ecodesign standards. ErP 2016 compliant.



- Meets Ecodesign standards.
- ErP 2018 compliant.