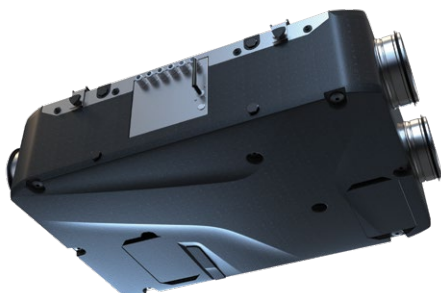


Series RECOM ST/SET EPP EC



Heat recovery air handling units in sound- and heat-insulated casings.
Air flow up to **310 m³/h**.
Heat recovery efficiency up to **91 %**

Description

The air handling units are the fully featured ventilation units with heat recovery for air filtration, fresh air supply and stale air extraction. The units offer energy-efficient ventilation for small apartments.

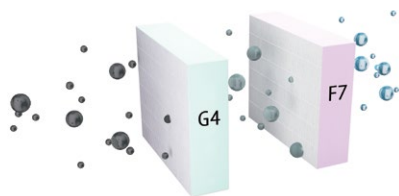
Casing

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



Filter

Two built-in **Coarse 90% (G4)** filters provide efficient air filtration. **ePM1 65% (F7)** supply filter can be installed as an option.

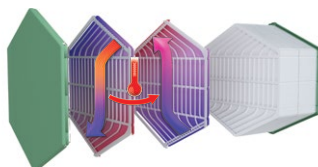


Fans

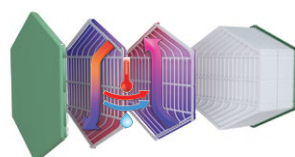
The units' fans are equipped with electronically-commutated motors.

Heat exchanger

RECOM ST units are equipped with a counter-flow polystyrene heat exchanger.



RECOM SET units are equipped with an enthalpy heat exchanger.



Bypass

The units are equipped with a bypass for summer cooling.

Automation

RECOM A21 units are equipped with a built-in automation system. The **A21** controller allows to integrate the unit into the **Smart Home system** or **BMS (Building Management System)**. To control the unit via Wi-Fi, download the **Blaubeberg home** smartphone app.

RECOM A14 units have an integrated control system with a wall-mounted control panel with a LED indication.



Google play



Download on the App Store



Frost protection

For **RECOM** units, the frost protection is implemented by shutting down the supply fan. Optional duct pre-heater is available for units with **A21** control system.

Mounting

The unit is designed for suspended ceiling, wall and floor mounting. The mounting position of the unit must provide service access for maintenance and repair.

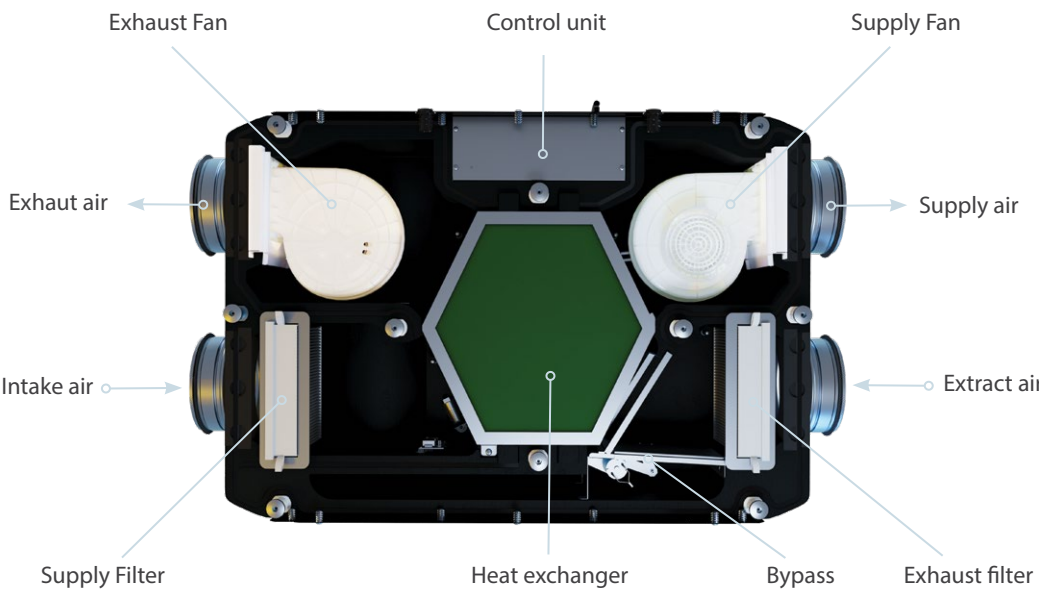
Control and automation

Functions	A14	A21
	FP (14)	FP (22) (option)
Wired remote control pane		
Control via a wired remote LCD control panel	-	FPD (option)
Wireless remote control panel	-	FP (22) Wi-Fi (option)
BMS	-	ModBus RTU (RS-485) ModBus TCP/IP (Wi-Fi, Ethernet)
Vents Cloud Server service	-	+
Control via Wi-Fi using a smartphone app	-	+
Frost protection	+	+
Bypass	Manual	Auto, manual
Week-scheduled operation	-	+
Filter replacement indication	+	Filter timer
Alarm indication	+	+
Speed selection	+	+
Timer	-	+
RH% sensor	Option	Option
CO ₂ sensor	Option	Option
VOC sensor	Option	Option
PM2.5 sensor	Option	Option
Boost mode	-	+
Fireplace mode	-	+
Preheater connection	-	+
Reheater connection	-	+
Cooler connection	-	+
Fire alarm sensor connection	+	+
Minimum supply air temperature control	-	+

Designation key

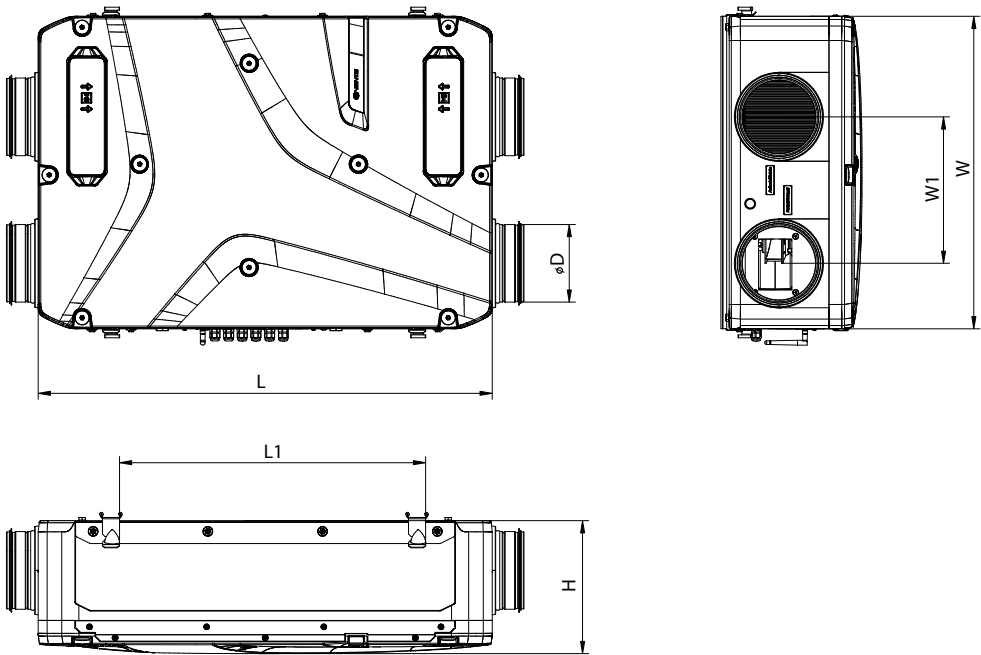
Model	Heat exchanger type	Nominal size	Modification	Casing type	Controller
RECOM	ST – heat recovery SET – energy recovery	Airflow m³/h / 10	0 – standart 1 – flat service hatch suitable for decorative panel installation	P – suspended	RECOM 21, A14

Unit design



Overall dimensions

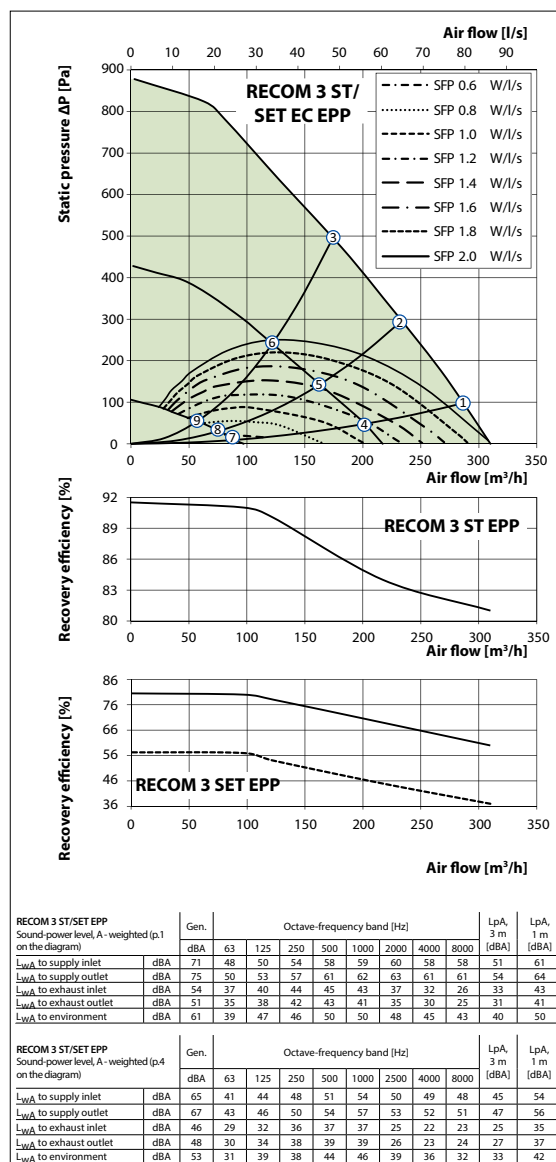
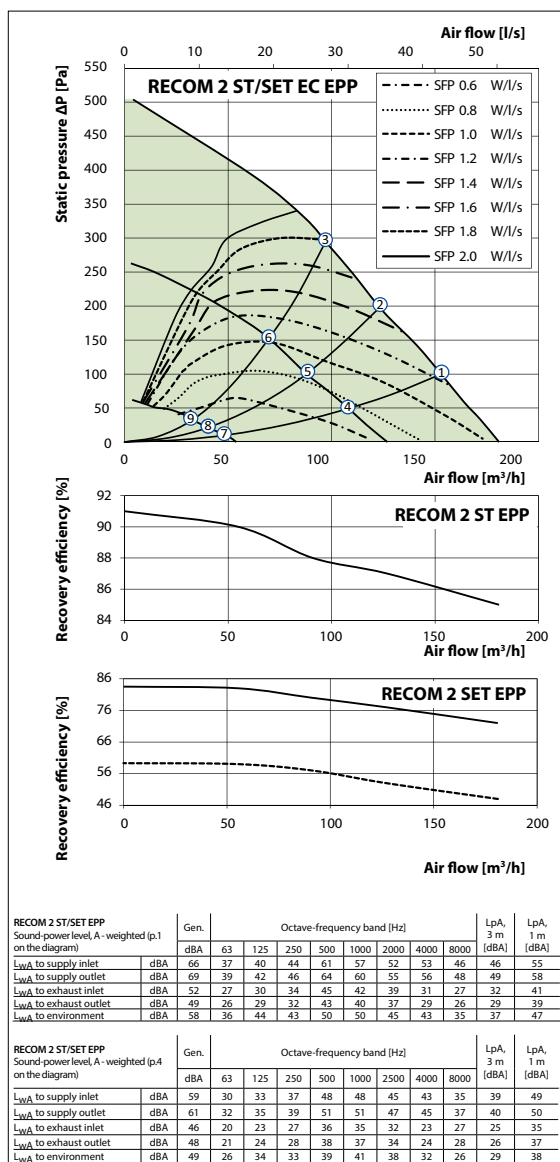
Model	Dimensions [mm]					
	H	W	L	ØD	W1	L1
RECOM ST/SET EC EPP	272	640	930	160	300	627



AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	RECOM 2 ST EC EPP	RECOM 2 SET EC EPP	RECOM 3 ST EC EPP	RECOM 3 SET EC EPP
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power [W]	53	53	171	171
Max. unit current [A]	0.49	0.49	1.34	1.34
Max air flow [m ³ /h]	181	181	310	310
Sound pressure level at 3 m distance [dBA]	29	29	33	33
Max. operating temperature [°C]	45	45	45	45
Case material	EPP	EPP	EPP	EPP
Insulation	25 mm	25 mm	25 mm	25 mm
Extract filter	Coarse >60 %	Coarse >60 %	Coarse >60 %	Coarse >60 %
Supply filters	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)
Connected air duct diameter [mm]	160	160	160	160
Weight [kg]	12	15	13	16
Heat recovery efficiency [%]	91	84	91	81
Heat exchanger type	Counterflow	Counterflow	Counterflow	Counterflow
Heat exchanger material	Polysterene	Enthalpy	Polysterene	Enthalpy
SEC class	A+	A	A	A



Accessories for air handling units

	Filter G4	Supply filter F7	Control panel	Control panel	WiFi Control panel	Internal humidity sensor	Internal CO2 sensor
							
RECOM 2 ST EPP (21)	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	FPD	FP (22)	FP (22) Wi-Fi	HV2	CO2-3
RECOM 2 SET EPP (21)							
RECOM 3 ST EPP (21)							
RECOM 3 ST EPP (21)	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7					
RECOM 2 ST EPP (14)	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	-	-	-	HV2	CO2-3
RECOM 2 SET EPP (14)							
RECOM 2 SET EPP (14)							
RECOM 3 ST EPP (14)	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7					