

AIR HANDLING UNITS WITH HEAT RECOVERY

Series

RECOM 6S/SE EC EPP L/R



Heat recovery air handling units in sound- and heat-insulated casings.
Air flow up to **720 m³/h**.
Heat recovery efficiency up to **91 %**

Description

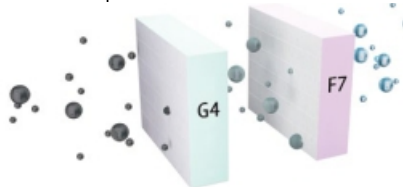
The air handling units are the fully featured ventilation units with heat recovery for air filtration, fresh air supply and stale air extract. The units offer energy-efficient ventilation for small apartments.

Casing

The casing is made of expanded polypropylene (EPP) possessing high heat- and sound-insulating properties.
RECOM 6S/SE L-left-handed version.
RECOM 6S/SE R-right-handed version.

Filter

Two built-in **Coarse 90% (G4)** filters provide efficient air filtration. **ePM1 60% (F7)** supply filter can be installed as an option.

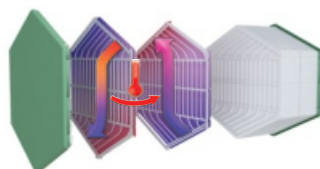


Fans

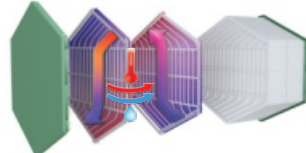
Units fans are equipped with electronically-commutated motors.

Heat Exchanger

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



RECOM SE units are equipped with an enthalpy heat exchanger.



Bypass

Units are equipped with a bypass for summer cooling.

Automation

RECOM 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 **Recom Home** smartphone app. **RECOM (14)** units have an integrated control system with a wall-mounted control panel equipped with LED indication.



Google play



Download on the App Store



Frost protection

For **(14)** units the frost protection is realized by shutting down the supply fan. Optional duct pre-heater is available for units with A21 control system.

Mounting

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

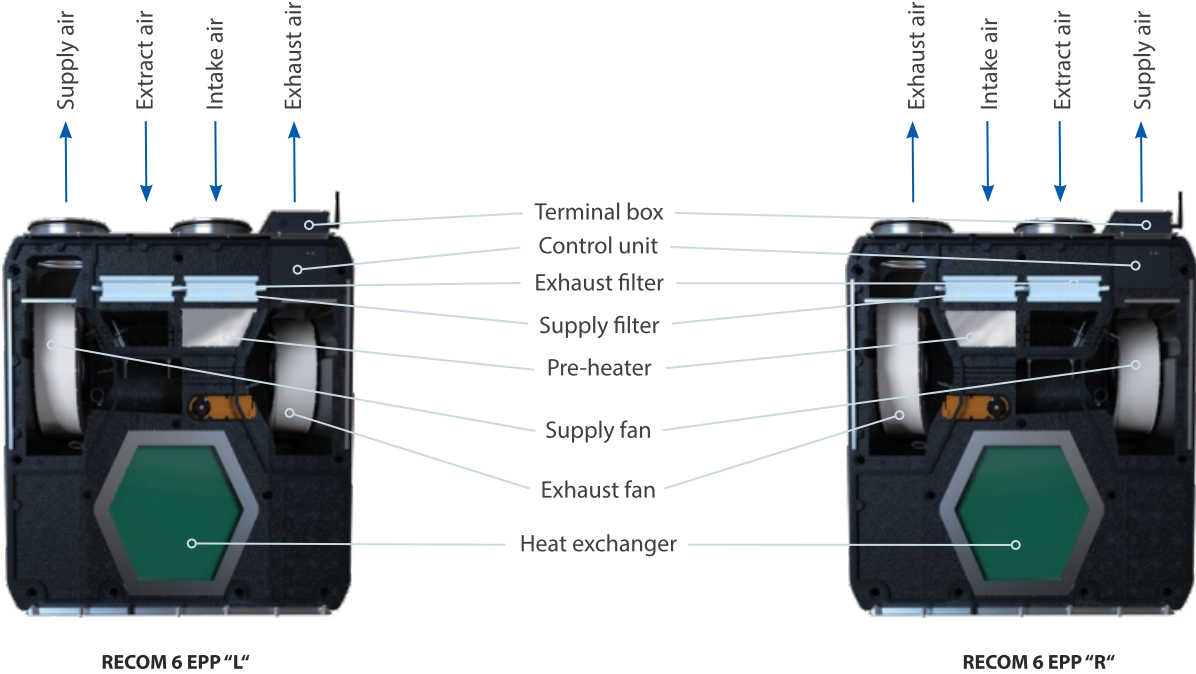
Control and automation

Functions	RECOM (21)	RECOM(14)
Wired remote control pane	FP (22)(option) 	FP (14) 
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)	-
Cloud Server service	+	-
Control via Wi-Fi using a smartphone app	+	-
Frost protection	+	+
Bypass	Auto, manual	Manual
Week-scheduled operation	+	-
Filter replacement indication	Filter timer	+
Alarm indication	+	+
Speed selection	+	+
Timer	+	-
RH% sensor	Option	Option
CO2 sensor	Option	Option
VOC sensor	Option	Option
PM2.5 sensor	Option	Option
Boost mode	+	-
Fireplace mode	+	-
Reheater connection	+	-
Fire alarm sensor connection	+	+
Minimum supply air temperature control	+	-

Designation key

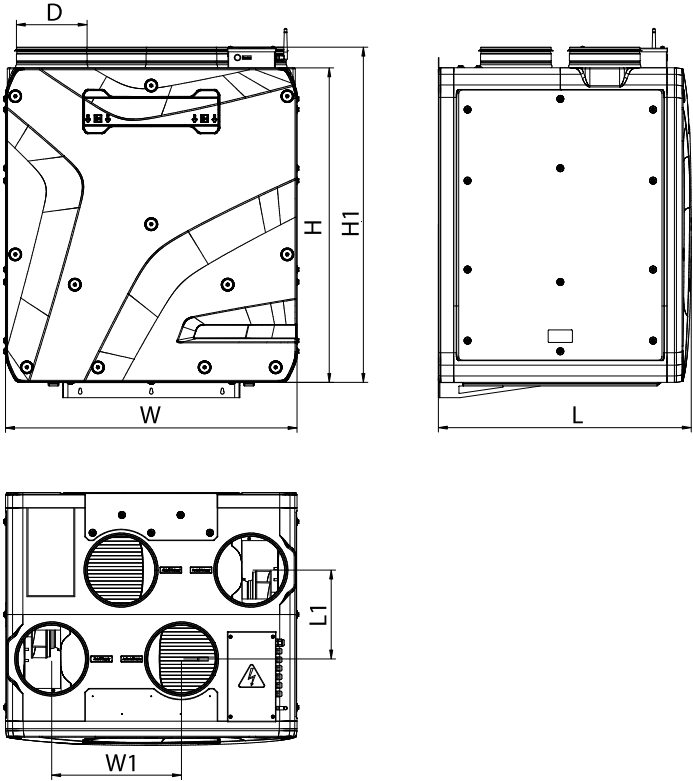
Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Control system	Version
RECOM	S-heat recovery SE-energy recovery	Airflow m³/h /10	0 standard	V - vertical	(14)- w/o heater (21)- integrated pre-heater	(14-FP) (21-FPD)	L left R right

Unit design



Overall dimensions

Model	Dimensions [mm]						
	H	W	L	H1	W1	L1	ØD
RECOM 6 EPP	885	830	711	943	365	250	200

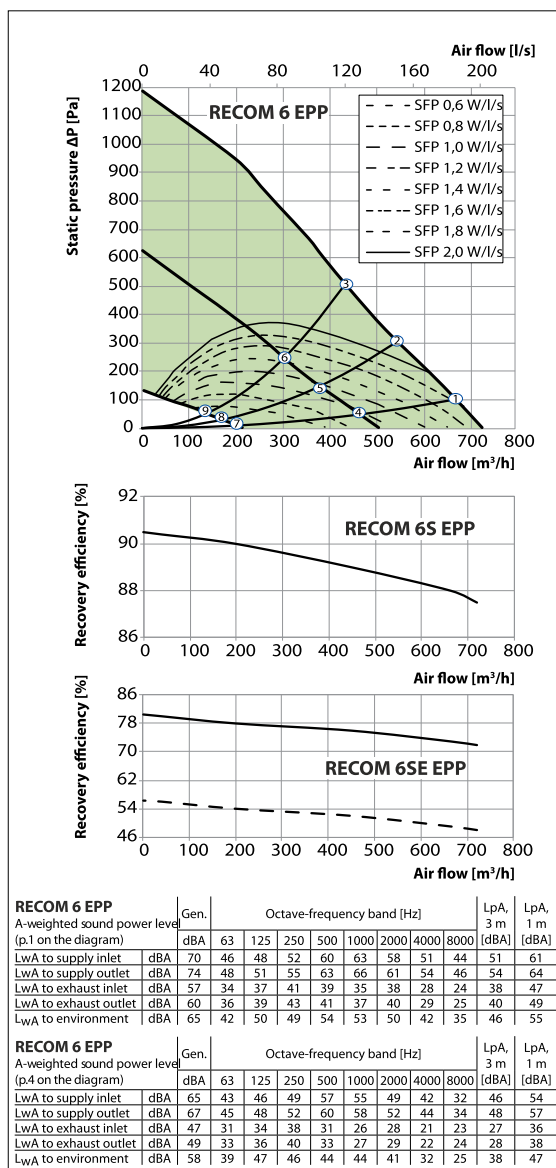


AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	RECOM 6S EPP (14)	RECOM 6SE EPP (14)	RECOM 6S EPP (21)	RECOM 6SE EPP (21)
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	346	346	346	346
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	346	346	1746	1746
Max. unit current without electric heater [A]	2.4	2.4	2.4	2.4
Integrated electric heater current [A]	-	-	6.21	6.21
Max. unit current [A]	2.4	2.4	8.61	8.61
Max air flow [m ³ /h]	720			
Sound pressure level at 3 m distance* [dBA]	38			
Max. operating temperature [°C]	- 25...+40			
Case material	EPP			
Insulation	45 mm			
Extract filter	G4 / Coarse >60 %			
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)			
Connected air duct diameter [mm]	200			
Weight [kg]	52	55	52.5	55.5
Heat recovery efficiency [%]	91	80	91	80
Heat exchanger type	Counterflow	Counterflow	Counterflow	Counterflow
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A

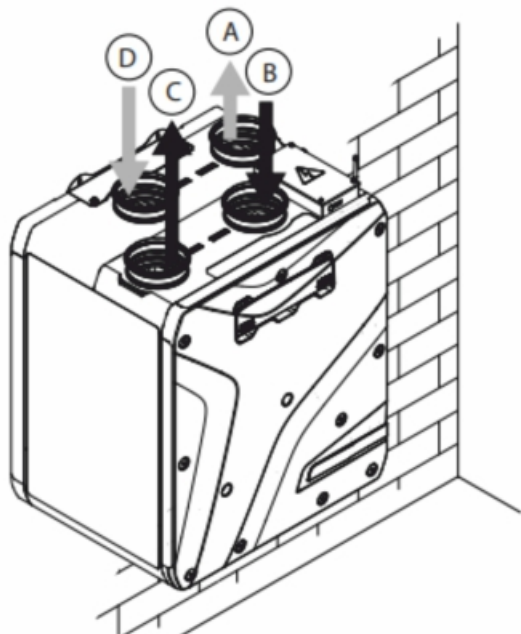
* Sound pressure level at 3 m distance is specified at point 4 [dBA] in average spherical free-field, for comparative use only.



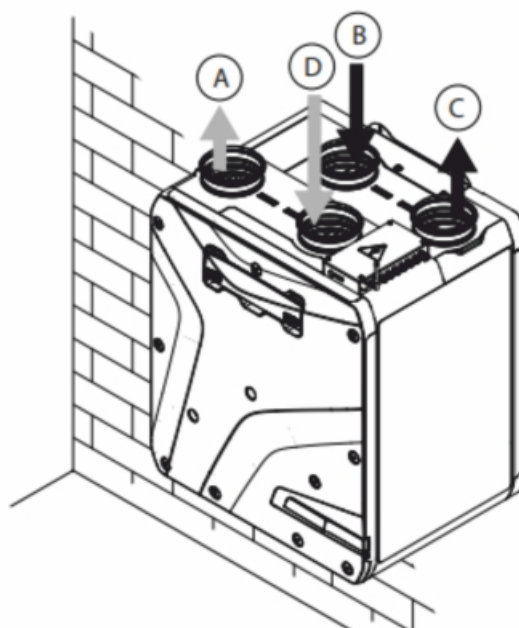
Unit design

To ensure comfortable anstallation and provide space for accessing the unit, left and right design types of the unit are designed.

RECOM 6 EPP "L"

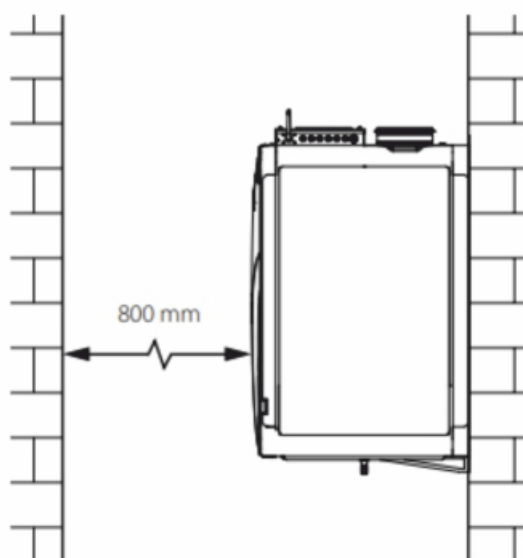


RECOM 6 EPP "R"



A – exhaust air, B – intake air, C – supply air, D – extract air

Minimum distances to surfaces



Accessories for air handling units

	Filter G4	Filter F7	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor	Internal CO ₂ sensor
							
RECOM 6S EPP (21) RECOM 6SE EPP (21)	SF 596x164x60 Coarse 90% G4	SF 596x164x60 ePM1 60% F7	FPD	FP (22)	FP (22) Wi-Fi	HV2	CO2-3
RECOM 6S EPP (14)			-	-	-		-
RECOM 6SE EPP (14)			-	-	-		-