

## 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 m<sup>3</sup>/h**. Heat recovery efficiency up to **91 %**

#### Description

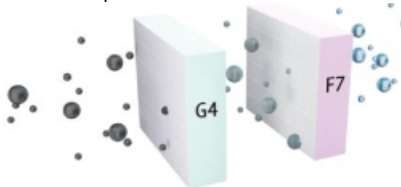
The air handling units are the fully featured ventilation units with heat recovery for air filtration, fresh air supply and stale air extract. The units offer energy-efficient ventilation for small apartments.

#### 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.

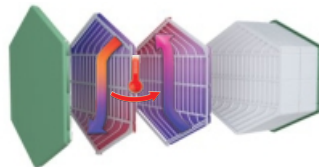


#### Fans

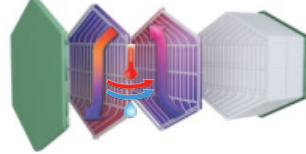
Units fans are equipped with electronically-commutated motors.

#### 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.

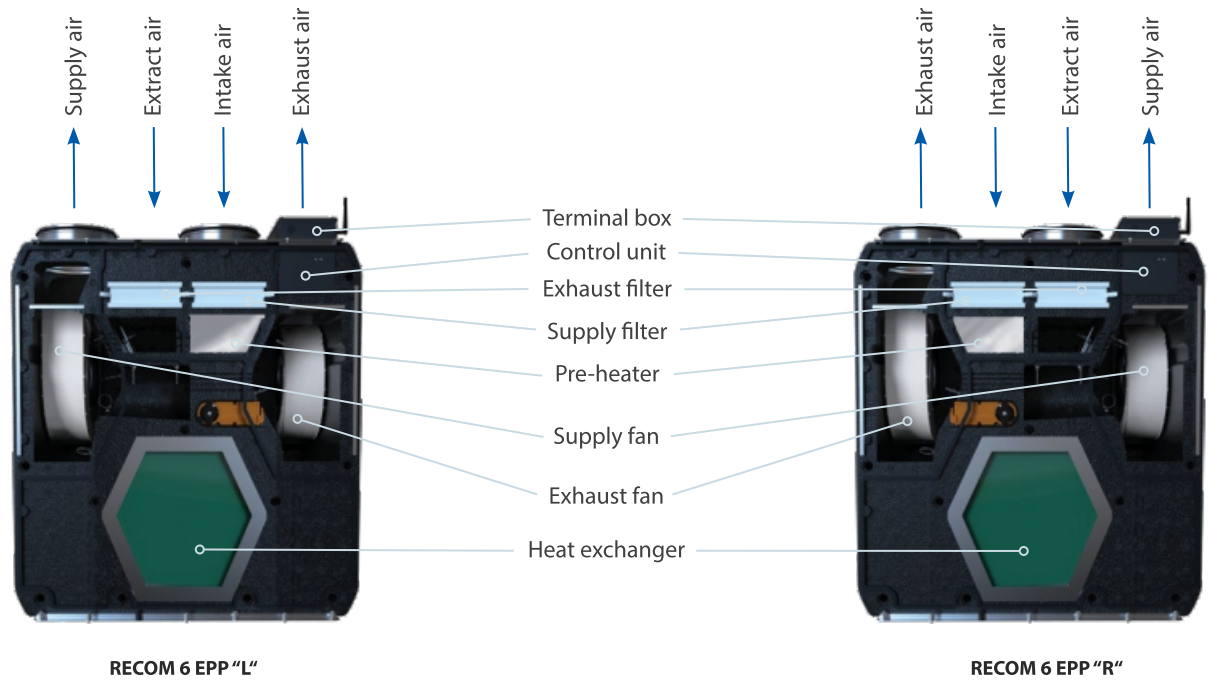
#### Control and automation

Functions	RECOM (21)	RECOM(14)
	FP (22)(option)	FP (14)
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)	-
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
CO <sub>2</sub> 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

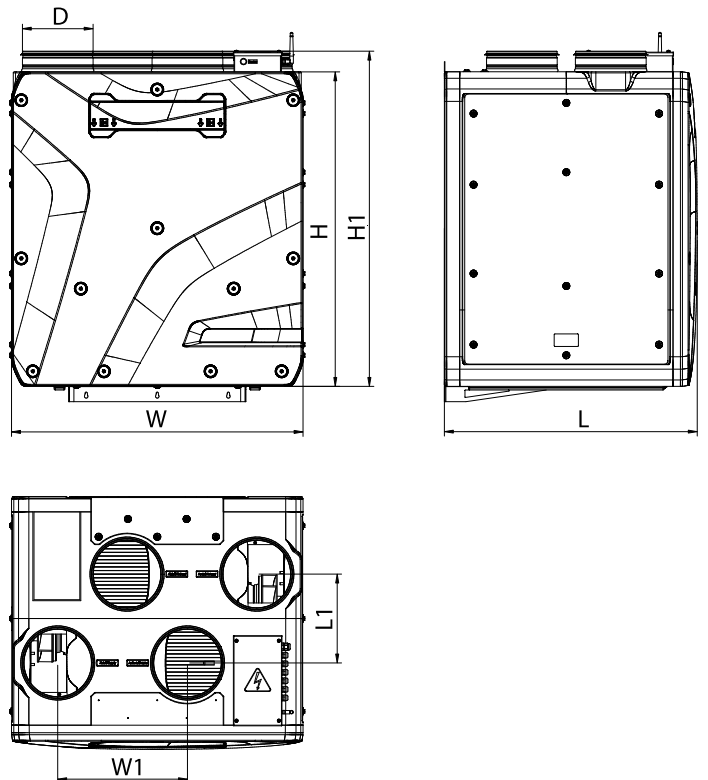
Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Control system	Version
RECOM	S-heat recovery SE-energy recovery	Airflow m <sup>3</sup> /h /10	0 standard	V - vertical	(14)- w/o heater (21)- integrated pre-heater	(14-FP) (21-FPD)	L left R right

## Unit design



## Overall dimensions

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

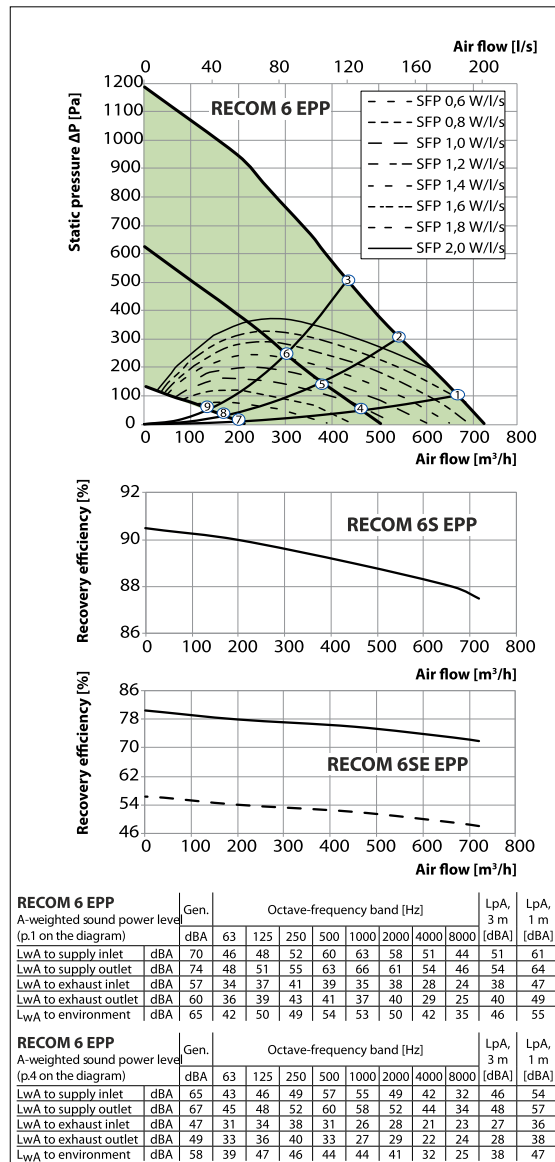


## AIR HANDLING UNITS WITH HEAT RECOVERY

### 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 <sup>3</sup> /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

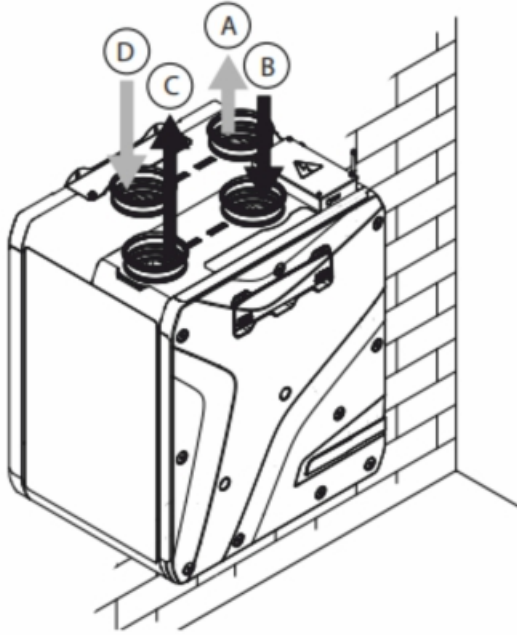
\* Sound pressure level at 3 m distance is specified at point 4 [dBA] in average spherical free-field, for comparative use only.



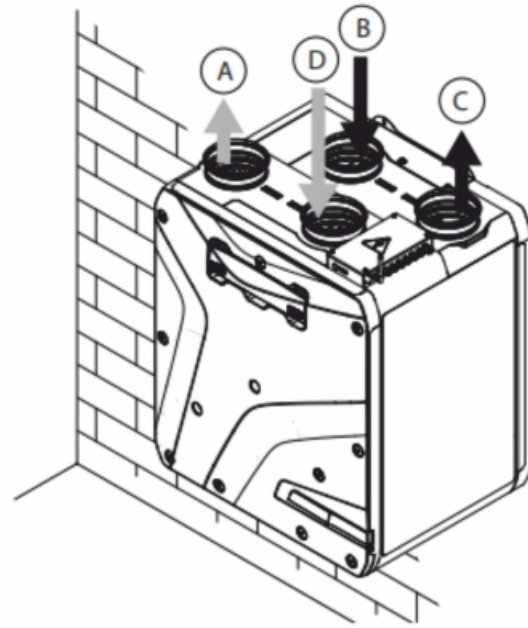
## Unit design

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"**

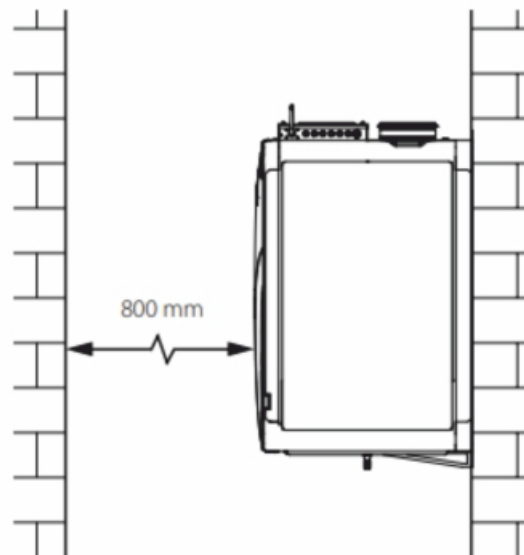


**RECOM 6 EPP "R"**



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 <sub>2</sub> sensor
							
<b>RECOM 6S EPP (21)</b> <b>RECOM 6SE EPP (21)</b>	SF 596x164x60 Coarse 90% G4	SF 596x164x60 ePM1 60% F7	<b>FPD</b>	<b>FP (22)</b>	<b>FP (22) Wi-Fi</b>	HV2	CO2-3
<b>RECOM 6S EPP (14)</b>			-	-	-		-
<b>RECOM 6SE EPP (14)</b>			-	-	-		-