

Series

RECOME 2 SET-J EC L/R RECOME 3 SET-J EC L/R



Heat recovery air handling units in sound- and heat-insulated casings. Air flow up to **279 m³/h**. Heat recovery efficiency up to **89 %**

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) that has high heat- and sound-insulating properties. **Recom S-J** units have adjustable oriental connection of the flanges to provide more flexible installation solutions.

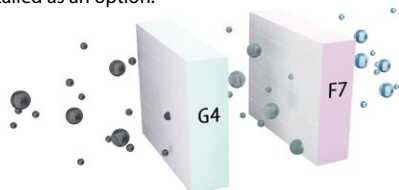


Recom S ...J - L – left-handed version.

Recom S ...J - R – right-handed version.

Filter

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



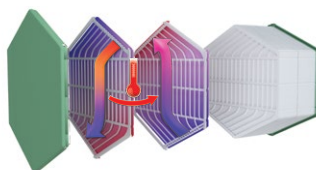
Fans

Units' fans are equipped with electronically-commutated motors.

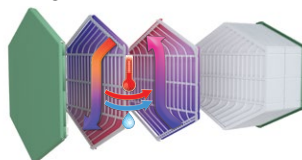
Recom S...-J L/R CF units are available with **Constant flow** function - the fans automatically maintain a constant air volume regardless of pressure changes in the duct system. Stable airflow is ensured up to 300 a external static pressure.

Heat Exchanger

Recom ST-J are equipped with a counter-flow polystyrene heat exchanger.



Recom SET-J units are equipped with an enthalpy heat exchanger.



Bypass

Units are equipped with a bypass for summer cooling.

Automation

Recom S...-J units are equipped with a built-in automation system. The **REC** 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 S...-J FP** 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 **Recom S...-J FP** units frost protection is realized by shutting down the supply fan. Optional duct pre-heater is available for units with REC control system.

Mounting

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

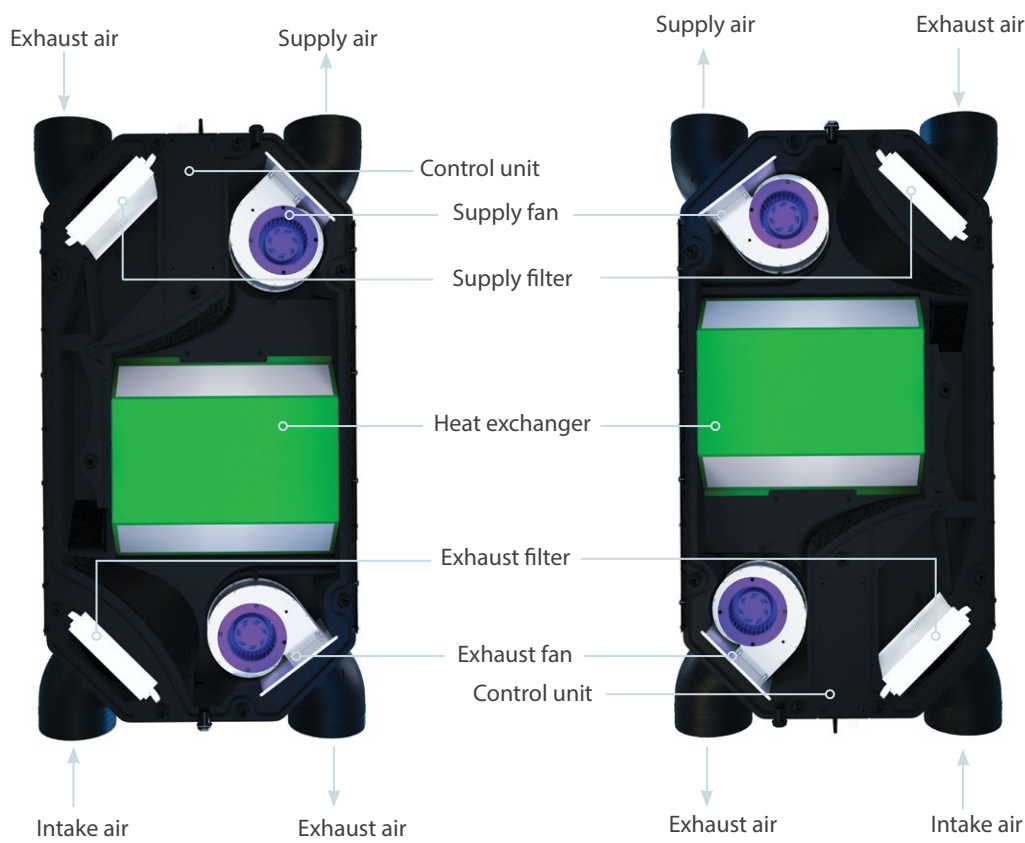
Control and automation

Functions	REC	FP
Wired remote control pane	Fp (option)	Fp
Control via a wired remote LCD control panel	FPD (option)	-
Wireless remote control panel	FP Wi-Fi (option)	-
BMS	ModBus RTU (RS-485) ModBus TCP/IP (Wi-Fi, Ethernet)	-
REC 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	+	-
Preheater connection	+	-
Reheater connection	+	-
Fire alarm sensor connection	+	+
Minimum supply air temperature control	+	-

Designation key

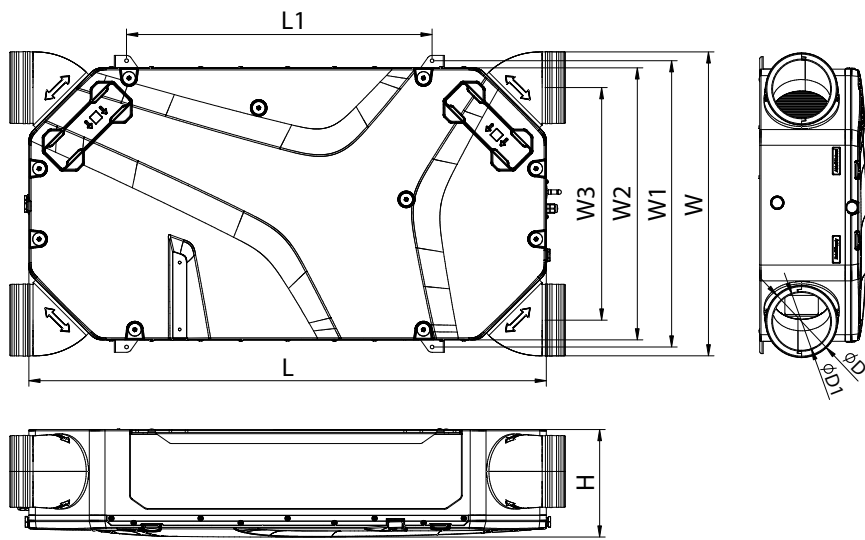
Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Controller	Unit version	Airflow control
RECOM	ST – heat recovery SET – energy recovery	Airflow m³/h /10	0 – standard	T – suspended	– w/o heater E - integrated pre-heater	REC FP	L: left-handed R: right-handed	– standard CF - constant flow

Unit design



Overall dimensions

Model	Dimensions [mm]								
	H	W	L	W1	W2	W3	L1	ØD	ØD1
RECOM S...J	242	683	1160	642	610	521	685	160	125



COUNTERFLOW HEAT RECOVERY UNITS IN EPP CASING

Technical data

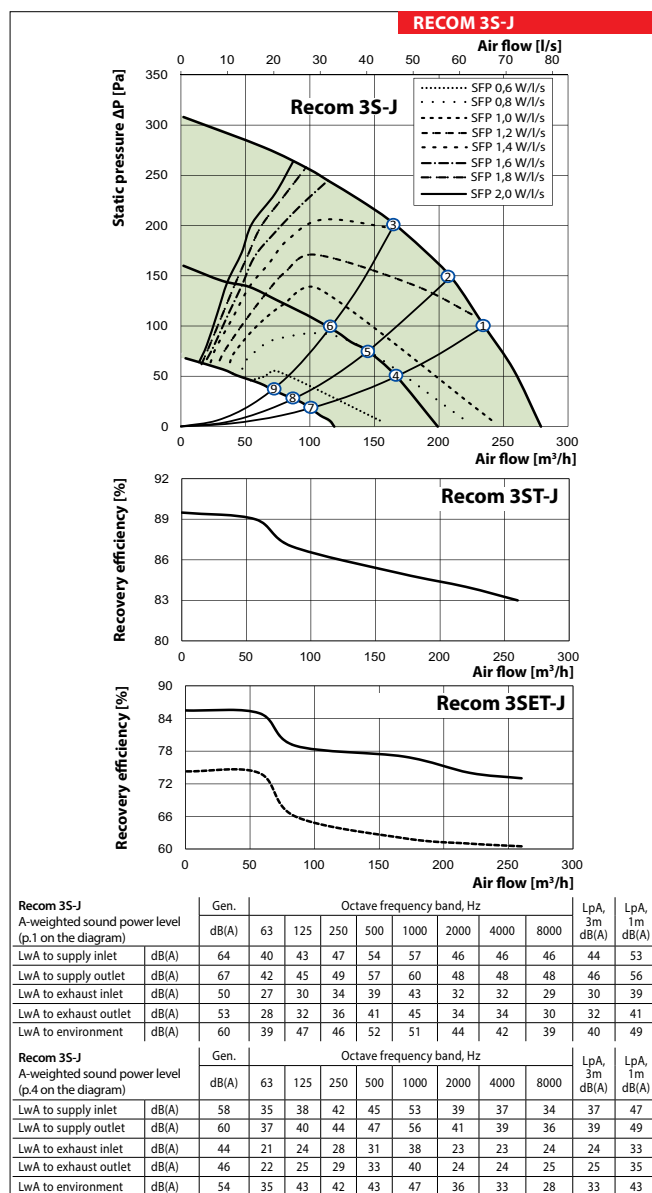
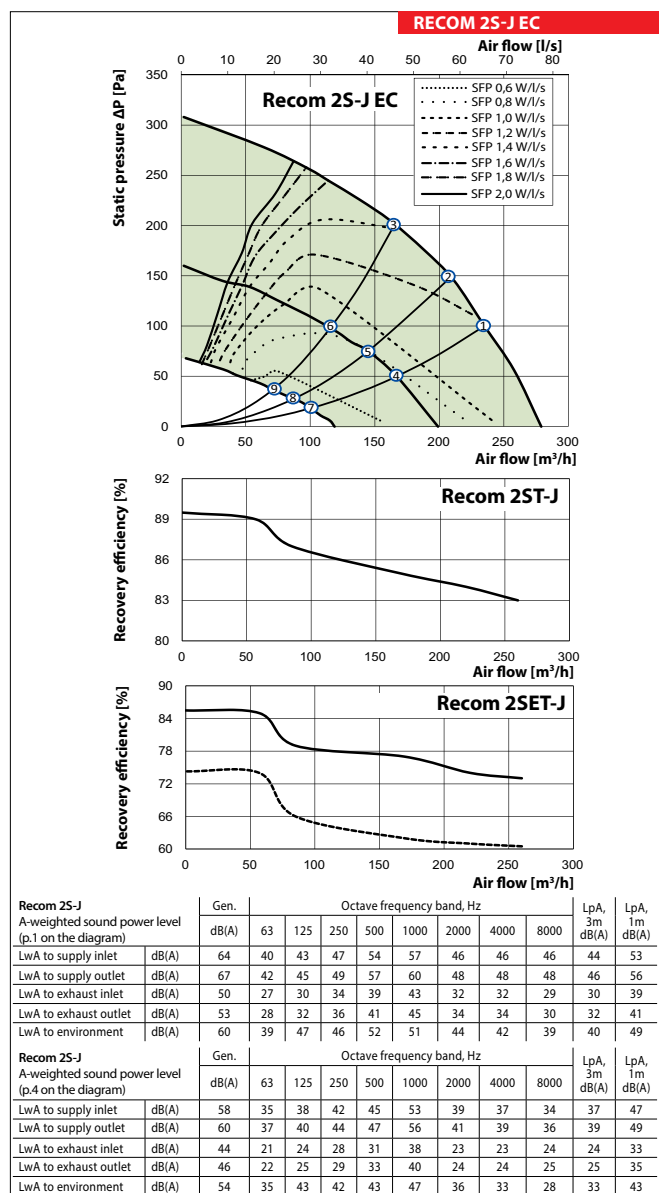
	RECOM 2ST-J	RECOM 2SET-J
Voltage [V / 50-60 Hz]	230	
Max. unit power without electric heater [W]	72	
Integrated electric heater power [W]	800	
Max. unit power [W]	872	
Max. unit current without electric heater [A]	0.63	
Integrated electric heater current [A]	3.55	
Max. unit current [A]	4.18	
Max air flow [m³/h]	229	
Sound pressure level at 3 m distance* [dBA]	27	27
Transported air temperature [°C]	-25...+40	
Case material	EPP	
Insulation [mm]	25 mm	
Extract filter	G4 / Coarse > 60%	
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)	
Connected air duct diameter [mm]	125 / 160	
Weight [kg]	18	19.5
Heat recovery efficiency [%]	89	85
Heat exchanger type	Counterflow	
Heat exchanger material	Polysterene	Enthalpy membrane
SEC class	A+	A

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

	RECOM 3ST-J	RECOM 3SET-J
Voltage [V / 50-60 Hz]	230	
Max. unit power without electric heater [W]	111	
Integrated electric heater power [W]	800	
Max. unit power [W]	911	
Max. unit current without electric heater [A]	0.9	
Integrated electric heater current [A]	3.55	
Max. unit current [A]	4.45	
Max air flow [m³/h]	279	
Sound pressure level at 3 m distance* [dBA]	33	
Transported air temperature [°C]	-25...+40	
Case material	EPP	
Insulation [mm]	25 mm	
Extract filter	G4 / Coarse > 60%	
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)	
Connected air duct diameter [mm]	125 / 160	
Weight [kg]	18	19.5
Heat recovery efficiency [%]	89	85
Heat exchanger type	Counterflow	
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Technical data



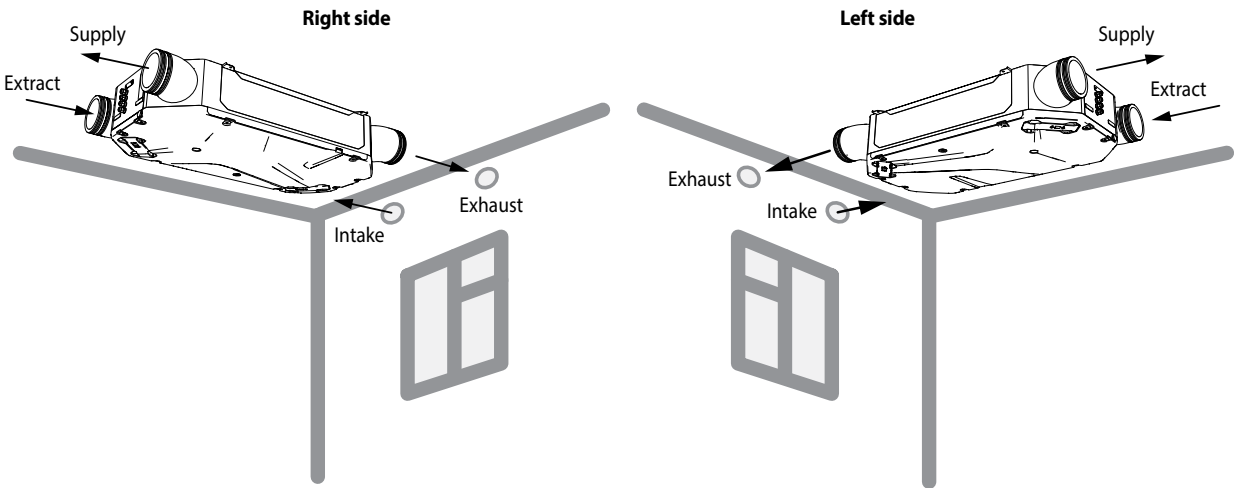
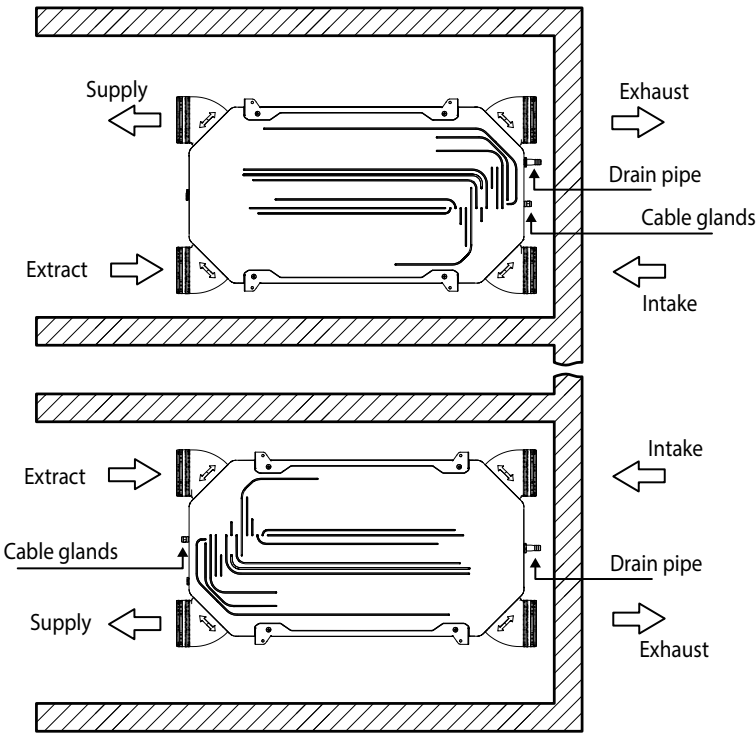
COUNTERFLOW HEAT RECOVERY UNITS IN EPP CASING

Right- and left-hand versions

The figure below shows the layout of the pipes for the right- and left-hand versions.
Select the appropriate version to make installation easier, reduce the length of air ducts, and minimize the number of bends in the air ducts.

Top view of ceiling-mounted units

Recom 2/3 ST/SET-J ECR



Accessories for air handling units

	Filter G4	Filter F7	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor
						
Recom 2/3S-J	SF 200x165x48 Coarse 90% G4	SF 200x165x48 ePM1 65% F7	FPD	FP	FP Wi-Fi	HV2