RENEO S

Heat and energy recovery air handling units



Features

- Air handling units for efficient supply and exhaust ventilation in flats, houses, cottages and other buildings.
- Heat recovery minimizes ventilation heat losses during the cold season and reduces air conditioner load during the hot season.
- Controllable air exchange for creating the best suitable indoor microclimate.

Air flow:
up to 720 m³/h
200 l/s

Heat recovery efficiency:
up to 91 %

EC motor · ErP 2018 · Wi Fi READY · BUILDING MANAGEMENT SYSTEM BMS

Design

- The casing is made of expanded polypropylene (**EPP**) with high heat- and sound-insulating properties.
- **Reneo S ... L** – left-handed unit.
- **Reneo S ... R** – right-handed unit.
- The **Reneo S 351, 381 CF, 401** units have flat service hatch design, suitable for decorative panel installation (delivered separately).



- **Reneo S ... CF** units are availiable 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 Pa external static pressure.

Air filtration

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

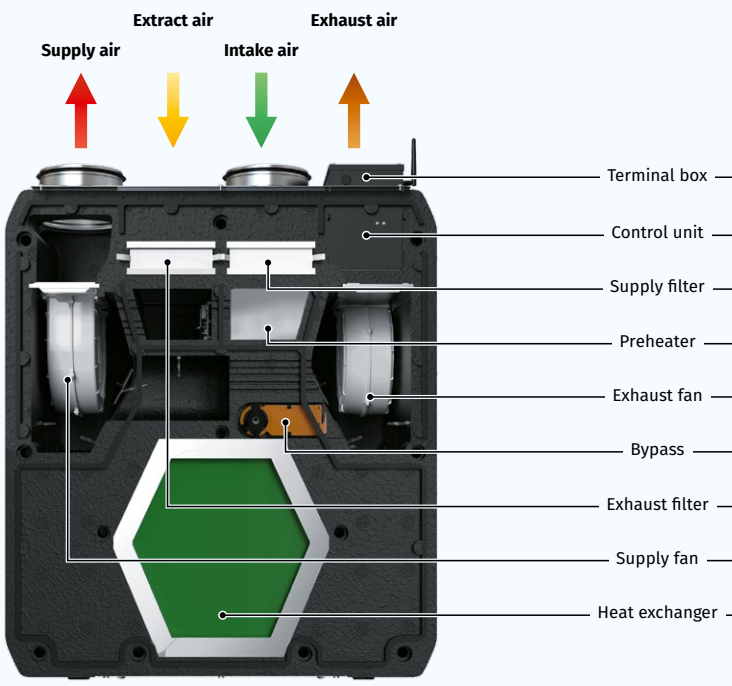
Fans

- The unit is equipped with high-efficiency **EC** external rotor motors and centrifugal impellers with forward-curved blades.

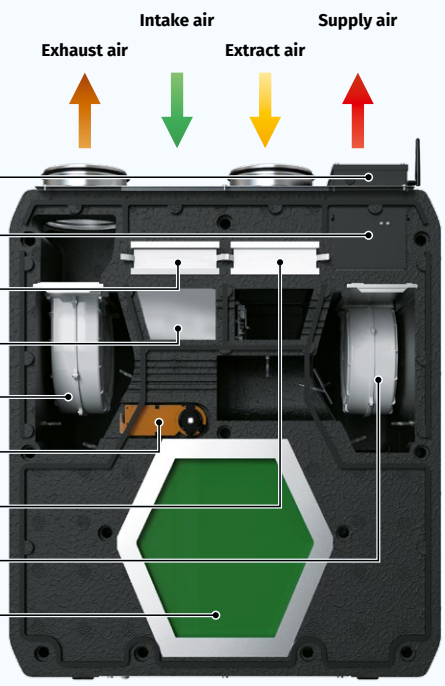
Bypass

- The **Reneo S** units are equipped with a bypass, which can be opened if there is a need to cool down the ventilated area with cool intake air.

RENEO S ... L



RENEO S ... R



Heat recovery

- The **Reneo S** unit is equipped with a counter-flow polysterene heat exchanger for heat recovery. The condensate is collected and drained to the drain pan under the heat exchanger.



- The **Reneo S...-E** unit is equipped with an enthalpy counter-flow heat exchanger for heat and humidity recovery.



Mounting

- The units are designed for suspended wall and floor mounting.

Control and automation

- **Reneo S S21** units are equipped with an integrated automation system. The remote control panel is not included in the delivery set.
- The S21 controller allows to integrate the unit into the **Smart Home** system or **BMS** (**Building Management System**).
- Unit control is done via Wi-Fi using the mobile application **Blauberg Home**.

Download the **Blauberg Home** app for Android

Download the **Blauberg Home** app for iOS

- The **Reneo S S14** units are equipped with an integrated automation system and an S14 wall-mounted sensor control panel.

Automation functions

Functions	Reneo S S21	Reneo S S14
Unit control via Wi-Fi using a mobile application	+	–
Unit control via a wired remote control panel	S22 control panel (option) 	S14 control panel 
Unit control via a wireless remote control panel	S22 Wi-Fi control panel (option) 	–
Unit control via a wired remote LCD control panel	S25 control panel (option) 	–
BMS (Building Management System)	RS-485	–
	Wi-Fi	–
	Ethernet	–
	MODBUS (RTU, TCP)	–
Blauberg Cloud Server service	+	–
Speed selection	+	+
Filter replacement indication	by filter timer	by filter timer
	by filter clogging differential pressure switch	–
Alarm indication	full alarm description in the mobile application	LED alarm indication
Week-scheduled operation	+	–
Bypass	automatic	–
	manual	manual
Timer	+	–
Boost mode	+	–
Fireplace mode	+	–
Freeze protection	through cyclic stops of the supply fan	through cyclic stops of the supply fan
	through preheating (option)	–
Reheater connection	option	–
Minimum supply air temperature control	+	–
Humidity control	option	option
CO_2 control	option	option
VOC control	option	–
PM2.5 control	option	–
Fire alarm sensor connection	+	+

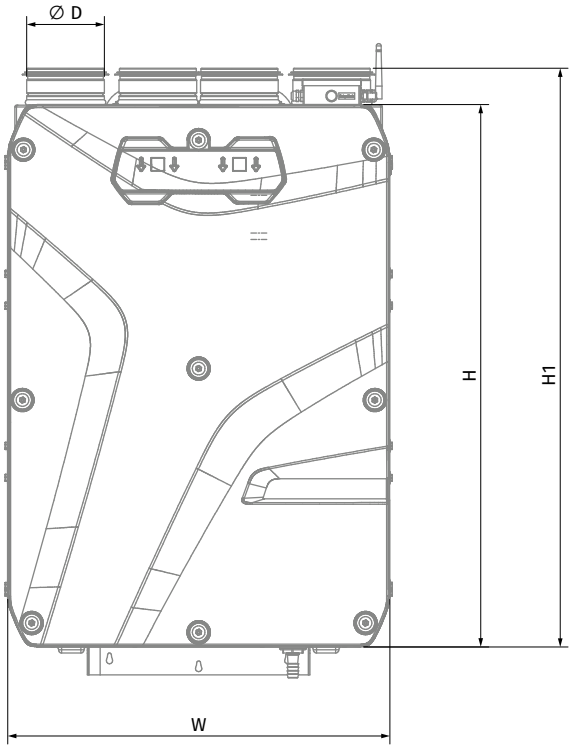
Option: the function is available when purchasing the appropriate accessory (see the "Accessories" section).

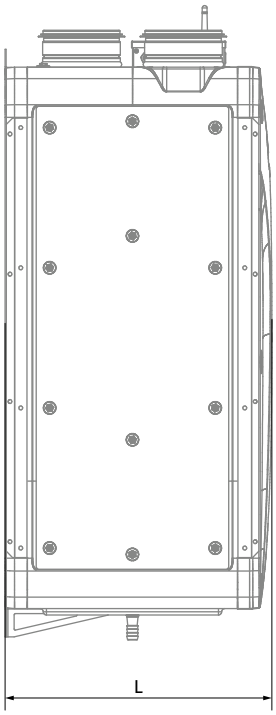
Designation key

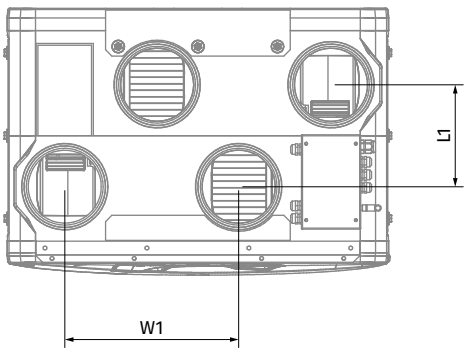
Series	Casing type	Heater	Size (Nominal airflow / 10)	Modification		Heat exchanger type	Unit version	Controller type	Airflow control
Reneo	**S:** vertical	**_:** w/o heater **E:** integrated preheater	**21; 24; 27; 35; 38; 40; 55**	**0:** standard **1:** flat service hatch suitable for decorative panel installation	-	**_:** heat recovery **E:** energy recovery	**L:** left-handed **R:** right-handed	**S21** **S14**	**_:** standard **CF:** constant flow

Dimensions [mm]

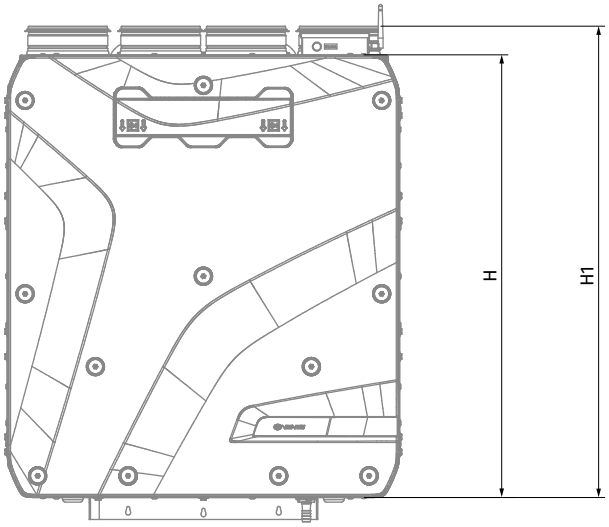
Model	∅ D	H	H1	L	L1	W	W1
Reneo S 210/240/270	125	900	958	452	190	598	273

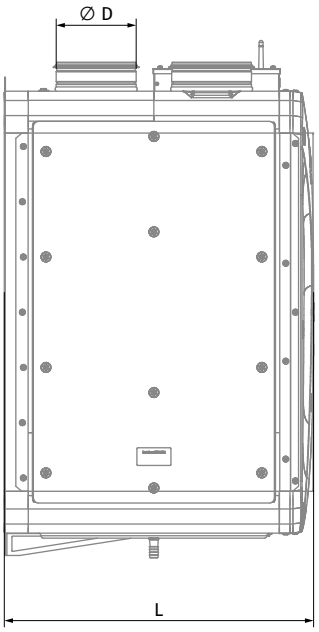


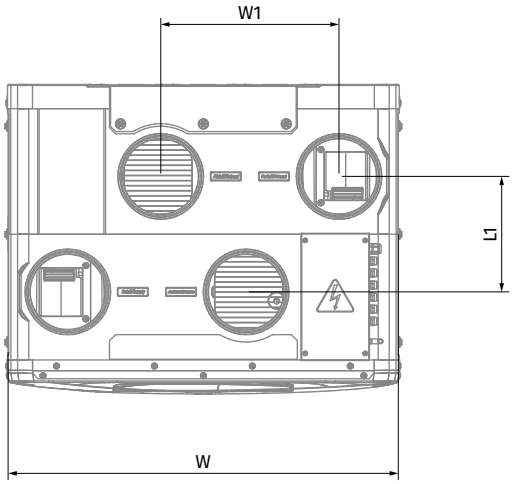




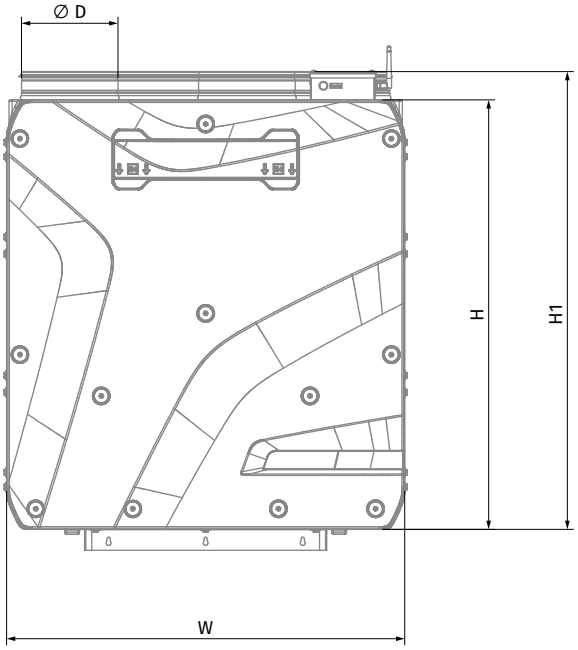
Model	∅ D	H	H1	L	L1	W	W1
Reneo S 350/380/400	160	880	939	616	230	770	355

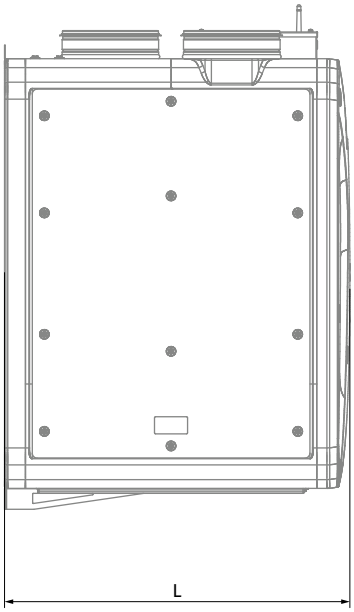


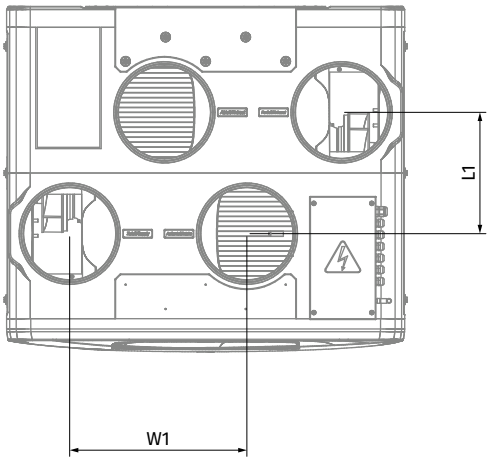




Model	∅ D	H	H1	L	L1	W	W1
Reneo S 550	200	885	943	711	250	830	365





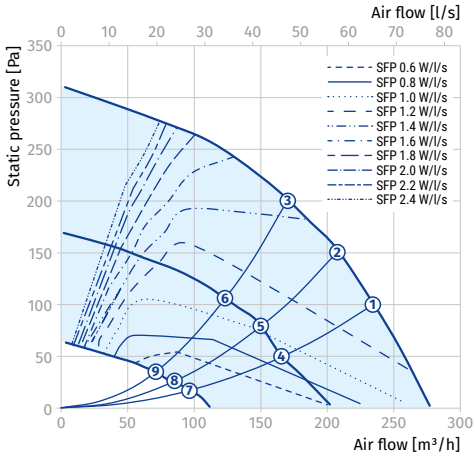


Technical data

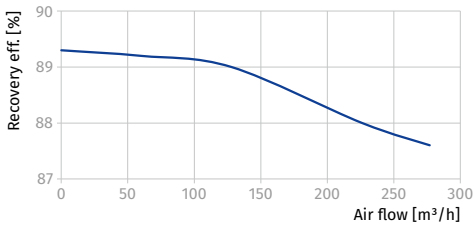
Parameters	Reneo S 210	Reneo S 210-E	Reneo SE 210	Reneo SE 210-E
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	125	125	125	125
Integrated electric heater power [W]	-	-	800	800
Max. unit power [W]	125	125	925	925
Max. unit current without electric heater [A]	1.0	1.0	1.0	1.0
Integrated electric heater current [A]	-	-	3.55	3.55
Max. unit current [A]	1.0	1.0	4.55	4.55
Max air flow [m³/h]	277	277	277	277
Sound pressure level at 3 m distance* [dBA]	31	31	31	31
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 mm
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)
Connected air duct diameter [mm]	125	125	125	125
Weight [kg]	20	22	20	22
Heat recovery efficiency [%]	89	83	89	83
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 [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparitive use only

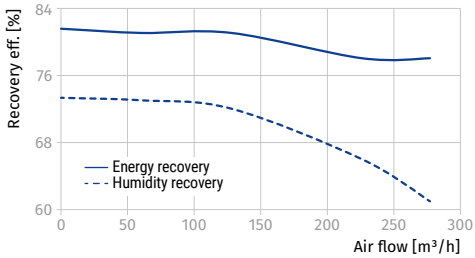
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**63**	41	44	48	53	56	43	44	46	**44**	**52**
L_{WA} to supply outlet [dBA]	**66**	43	46	50	56	59	45	46	48	**46**	**55**
L_{WA} to exhaust inlet [dBA]	**47**	30	33	37	37	41	30	25	25	**27**	**36**
L_{WA} to exhaust outlet [dBA]	**49**	32	35	39	39	43	32	26	26	**28**	**38**
L_{WA} to environment [dBA]	**57**	33	41	40	50	49	44	41	36	**37**	**46**
Point 4											
L_{WA} to supply inlet [dBA]	**58**	36	39	43	47	54	36	36	36	**38**	**47**
L_{WA} to supply outlet [dBA]	**60**	38	41	45	49	57	38	38	38	**40**	**49**
L_{WA} to exhaust inlet [dBA]	**42**	25	28	32	31	34	22	20	23	**21**	**31**
L_{WA} to exhaust outlet [dBA]	**44**	26	29	34	33	36	23	21	24	**22**	**33**
L_{WA} to environment [dBA]	**52**	29	37	36	42	46	37	33	27	**31**	**41**



Reneo S 210



Reneo S 210-E

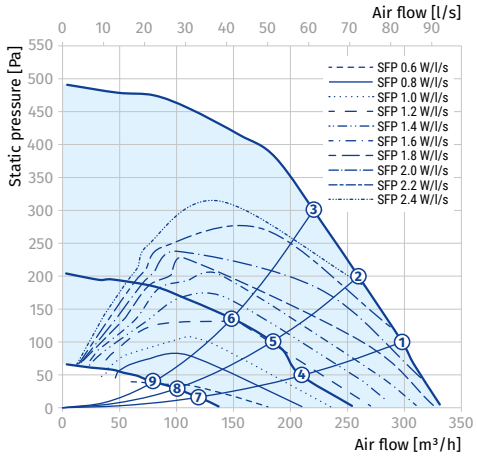


COUNTERFLOW RESIDENTIAL AHU IN EPP CASING

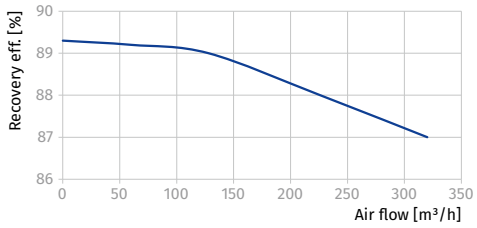
Parameters	Reneo S 270	Reneo S 270-E	Reneo SE 270	Reneo SE 270-E
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	182	182	182	182
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	182	182	1582	1582
Max. unit current without electric heater [A]	1.4	1.4	1.4	1.4
Integrated electric heater current [A]	-	-	6.21	6.21
Max. unit current [A]	1.4	1.4	7.61	7.61
Max air flow [m³/h]	331	331	331	331
Sound pressure level at 3 m distance* [dBA]	34	34	34	34
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 mm
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)
Connected air duct diameter [mm]	125	125	125	125
Weight [kg]	22	24	22	24
Heat recovery efficiency [%]	89	83	89	83
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 [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparitive use only

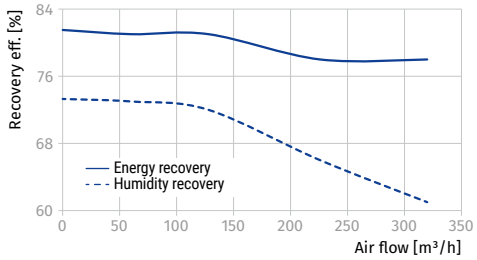
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**65**	44	47	50	56	56	48	48	46	**46**	**54**
L_{WA} to supply outlet [dBA]	**68**	46	49	53	59	59	51	50	48	**48**	**57**
L_{WA} to exhaust inlet [dBA]	**51**	32	35	39	43	41	37	28	25	**30**	**40**
L_{WA} to exhaust outlet [dBA]	**54**	34	37	41	45	43	39	29	26	**32**	**42**
L_{WA} to environment [dBA]	**58**	33	41	40	50	48	44	42	37	**37**	**47**
Point 4											
L_{WA} to supply inlet [dBA]	**63**	39	42	46	53	54	44	44	42	**42**	**51**
L_{WA} to supply outlet [dBA]	**65**	41	44	48	56	57	46	46	44	**44**	**54**
L_{WA} to exhaust inlet [dBA]	**48**	29	32	36	38	40	35	25	24	**27**	**37**
L_{WA} to exhaust outlet [dBA]	**50**	30	34	38	40	42	37	26	25	**28**	**39**
L_{WA} to environment [dBA]	**55**	30	38	37	47	46	40	37	33	**34**	**44**



Reneo S 270



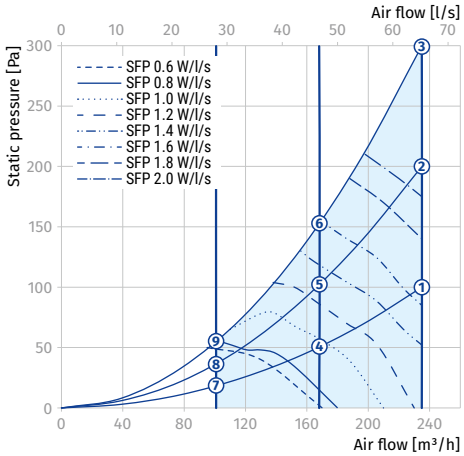
Reneo S 270-E



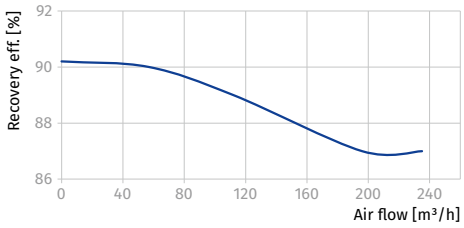
Parameters	Reneo S 240 CF	Reneo S 240-E CF	Reneo SE 240 CF	Reneo SE 240-E CF
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	190	190	190	190
Integrated electric heater power [W]	-	-	800	800
Max. unit power [W]	190	190	990	990
Max. unit current without electric heater [A]	1.4	1.4	1.4	1.4
Integrated electric heater current [A]	-	-	3.55	3.55
Max. unit current [A]	1.4	1.4	4.95	4.95
Max air flow [m³/h]	235	235	235	235
Sound pressure level at 3 m distance* [dBA]	28	28	28	28
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 mm
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)	G4 / Coarse > 60% (option: F7 / ePM1 60%)
Connected air duct diameter [mm]	125	125	125	125
Weight [kg]	20	22	20	22
Heat recovery efficiency [%]	89	83	89	83
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 [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparitive use only

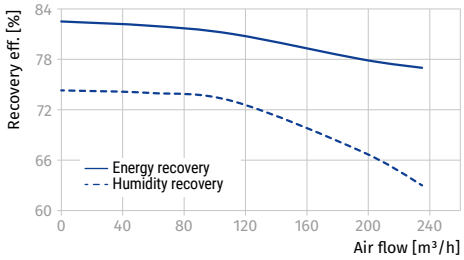
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**66**	40	43	47	56	58	47	48	48	**46**	**55**
L_{WA} to supply outlet [dBA]	**69**	42	45	49	59	61	49	51	51	**48**	**58**
L_{WA} to exhaust inlet [dBA]	**45**	26	29	33	35	36	32	24	25	**25**	**34**
L_{WA} to exhaust outlet [dBA]	**47**	27	30	35	37	38	34	25	26	**26**	**36**
L_{WA} to environment [dBA]	**55**	27	35	34	45	48	40	39	35	**34**	**44**
Point 4											
L_{WA} to supply inlet [dBA]	**60**	34	37	41	48	54	38	38	36	**39**	**48**
L_{WA} to supply outlet [dBA]	**62**	36	39	43	51	57	40	40	38	**41**	**51**
L_{WA} to exhaust inlet [dBA]	**39**	20	23	27	29	28	21	19	23	**18**	**28**
L_{WA} to exhaust outlet [dBA]	**41**	21	24	28	30	29	22	20	24	**19**	**29**
L_{WA} to environment [dBA]	**49**	21	29	28	38	44	32	30	26	**28**	**38**



Reneo S 240 CF



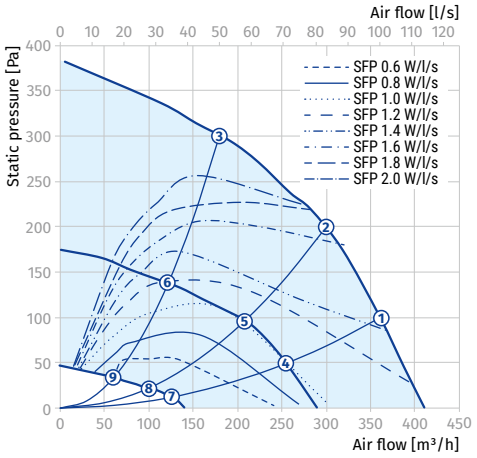
Reneo S 240-E CF



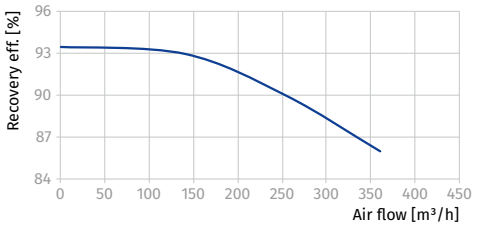
Parameters	Reneo S 350	Reneo S 350-E	Reneo SE 350	Reneo SE 350-E
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	213	213	213	213
Integrated electric heater power [W]	–	–	1050	1050
Max. unit power [W]	213	213	1263	1263
Max. unit current without electric heater [A]	1.62	1.62	1.62	1.62
Integrated electric heater current [A]	–	–	4.66	4.66
Max. unit current [A]	1.62	1.62	6.28	6.28
Max. air flow [m³/h]	410	410	410	410
Sound pressure level at 3 m distance* [dBA]	26	26	26	26
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 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]	26	26	26	26
Heat recovery efficiency [%]	93	83	93	83
Heat exchanger type	Counter-flow	Counter-flow	Counter-flow	Counter-flow
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A

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

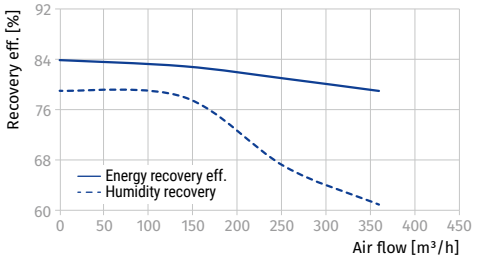
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**61**	35	38	42	48	53	48	43	45	**40**	**50**
L_{WA} to supply outlet [dBA]	**64**	37	40	44	51	56	50	45	47	**43**	**53**
L_{WA} to exhaust inlet [dBA]	**50**	33	36	40	40	39	33	28	26	**29**	**39**
L_{WA} to exhaust outlet [dBA]	**48**	31	34	38	38	37	31	27	25	**27**	**37**
L_{WA} to environment [dBA]	**55**	31	39	38	44	45	42	37	34	**36**	**45**
Point 4											
L_{WA} to supply inlet [dBA]	**55**	29	31	35	42	50	39	35	35	**34**	**44**
L_{WA} to supply outlet [dBA]	**57**	30	33	37	44	53	41	37	37	**36**	**46**
L_{WA} to exhaust inlet [dBA]	**41**	24	27	31	30	32	20	19	23	**20**	**30**
L_{WA} to exhaust outlet [dBA]	**43**	25	28	33	32	34	21	20	24	**22**	**32**
L_{WA} to environment [dBA]	**46**	21	29	28	34	39	30	26	24	**26**	**35**



Reneo S 350



Reneo S 350-E

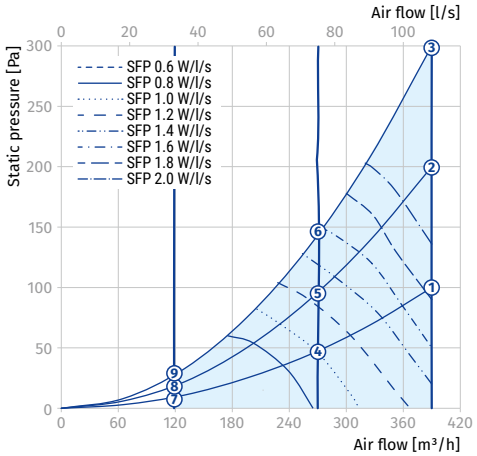


COUNTERFLOW RESIDENTIAL AHU IN EPP CASING

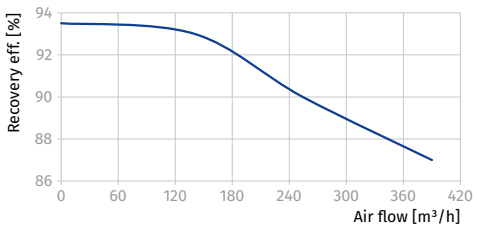
Parameters	Reneo S 380 CF	Reneo S 380-E CF	Reneo SE 380 CF	Reneo SE 380-E CF
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	247	247	247	247
Integrated electric heater power [W]	-	-	1050	1050
Max. unit power [W]	247	247	1297	1297
Max. unit current without electric heater [A]	1.8	1.8	1.8	1.8
Integrated electric heater current [A]	-	-	3.55	3.55
Max. unit current [A]	1.9	1.9	5.35	5.35
Max. air flow [m³/h]	390	390	390	390
Sound pressure level at 3 m distance* [dBA]	26	26	26	26
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 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]	26	26	26	26
Heat recovery efficiency [%]	93	83	93	83
Heat exchanger type	Counter-flow	Counter-flow	Counter-flow	Counter-flow
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A

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

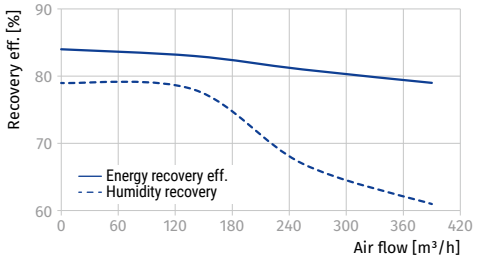
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**61**	35	38	42	48	53	48	43	45	**40**	**50**
L_{WA} to supply outlet [dBA]	**64**	37	40	44	51	56	50	45	47	**43**	**53**
L_{WA} to exhaust inlet [dBA]	**50**	33	36	40	40	39	33	28	26	**29**	**39**
L_{WA} to exhaust outlet [dBA]	**48**	31	34	38	38	37	31	27	25	**27**	**37**
L_{WA} to environment [dBA]	**55**	31	39	38	44	45	42	37	34	**36**	**45**
Point 4											
L_{WA} to supply inlet [dBA]	**55**	29	31	35	42	50	39	35	35	**34**	**44**
L_{WA} to supply outlet [dBA]	**57**	30	33	37	44	53	41	37	37	**36**	**46**
L_{WA} to exhaust inlet [dBA]	**41**	24	27	31	30	32	20	19	23	**20**	**30**
L_{WA} to exhaust outlet [dBA]	**43**	25	28	33	32	34	21	20	24	**22**	**32**
L_{WA} to environment [dBA]	**46**	21	29	28	34	39	30	26	24	**26**	**35**



Reneo S 380 CF



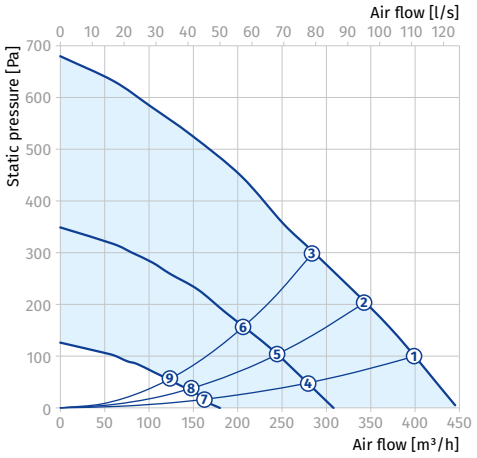
Reneo S 380-E CF



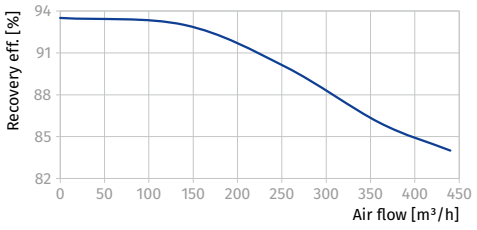
Parameters	Reneo S 400	Reneo S 400-E	Reneo SE 400	Reneo SE 400-E
Voltage [V / 50–60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	178	178	178	178
Integrated electric heater power [W]	–	-	1050	1050
Max. unit power [W]	178	178	1228	1228
Max. unit current without electric heater [A]	1.4	1.4	1.4	1.4
Integrated electric heater current [A]	-	-	4.66	4.66
Max. unit current [A]	1.4	1.4	6.06	6.06
Max. air flow [m³/h]	445	445	445	445
Sound pressure level at 3 m distance* [dBA]	26	26	26	26
Transported air temperature [°C]	–25...+40	–25...+40	–25...+40	–25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 mm
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)
Connected air duct diameter [mm]	160	160	160	160
Weight [kg]	26	26	26	26
Heat recovery efficiency [%]	93	83	93	83
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 [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparitive use only

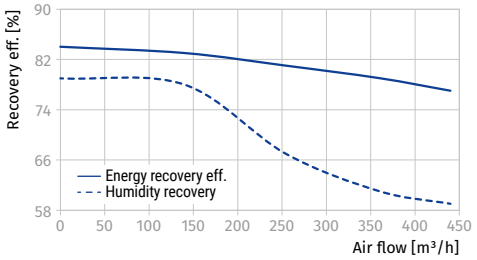
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**61**	35	38	42	48	53	48	43	45	**40**	**50**
L_{WA} to supply outlet [dBA]	**64**	37	40	44	51	56	50	45	47	**43**	**53**
L_{WA} to exhaust inlet [dBA]	**50**	33	36	40	40	39	33	28	26	**29**	**39**
L_{WA} to exhaust outlet [dBA]	**48**	31	34	38	38	37	31	27	25	**27**	**37**
L_{WA} to environment [dBA]	**55**	31	39	38	44	45	42	37	34	**36**	**45**
Point 4											
L_{WA} to supply inlet [dBA]	**55**	29	31	35	42	50	39	35	35	**34**	**44**
L_{WA} to supply outlet [dBA]	**57**	30	33	37	44	53	41	37	37	**36**	**46**
L_{WA} to exhaust inlet [dBA]	**41**	24	27	31	30	32	20	19	23	**20**	**30**
L_{WA} to exhaust outlet [dBA]	**43**	25	28	33	32	34	21	20	24	**22**	**32**
L_{WA} to environment [dBA]	**46**	21	29	28	34	39	30	26	24	**26**	**35**



Reneo S 400



Reneo S 400-E

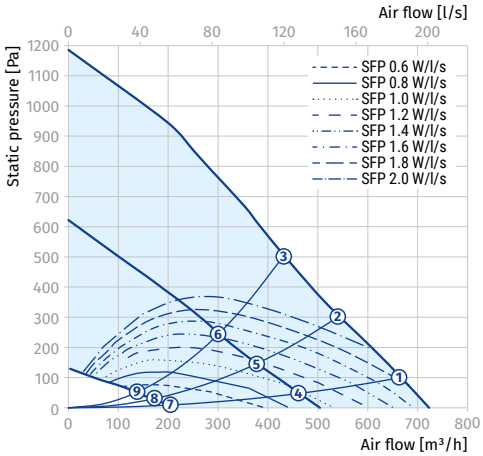


COUNTERFLOW RESIDENTIAL AHU IN EPP CASING

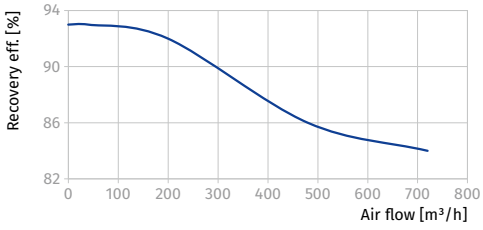
Parameters	Reneo S 550	Reneo S 550-E	Reneo SE 550	Reneo SE 550-E
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	346	346	346	346
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	346	346	1746	1746
Max. unit current without electric heater [A]	2.4	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 [m³/h]	720	720	720	720
Sound pressure level at 3 m distance* [dBA]	38	38	38	38
Transported air temperature [°C]	−25...+40	−25...+40	−25...+40	−25...+40
Case material	EPP	EPP	EPP	EPP
Insulation	45 mm	45 mm	45 mm	45 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]	200	200	200	200
Weight [kg]	52	55	52.5	55.5
Heat recovery efficiency [%]	93	85	93	85
Heat exchanger type	Counter-flow	Counter-flow	Counter-flow	Counter-flow
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A

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

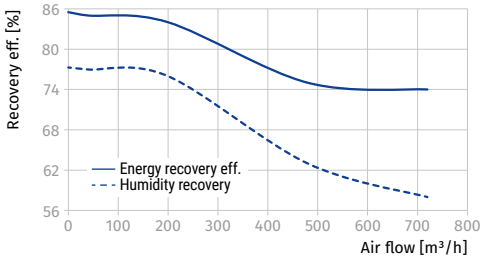
Sound power level, A-weighted	Total	Octave frequency band [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Point 1											
L_{WA} to supply inlet [dBA]	**70**	46	48	52	60	63	58	51	44	**51**	**61**
L_{WA} to supply outlet [dBA]	**74**	48	51	55	63	66	61	54	46	**54**	**64**
L_{WA} to exhaust inlet [dBA]	**57**	34	37	41	39	35	38	28	24	**38**	**47**
L_{WA} to exhaust outlet [dBA]	**60**	36	39	43	41	37	40	29	25	**40**	**49**
L_{WA} to environment [dBA]	**65**	42	50	49	54	53	50	42	35	**46**	**55**
Point 4											
L_{WA} to supply inlet [dBA]	**65**	43	46	49	57	55	49	42	32	**46**	**54**
L_{WA} to supply outlet [dBA]	**67**	45	48	52	60	58	52	44	34	**48**	**57**
L_{WA} to exhaust inlet [dBA]	**47**	31	34	38	31	26	28	21	23	**27**	**36**
L_{WA} to exhaust outlet [dBA]	**49**	33	36	40	33	27	29	22	24	**28**	**38**
L_{WA} to environment [dBA]	**58**	39	47	46	44	44	41	32	25	**38**	**47**



Reneo S 550



Reneo S 550-E



Accessories

		Reneo S 210 S21	Reneo SE 210 S21	Reneo S 210 S14
G4 panel filter		FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4
F7 panel filter		FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7
LCD control panel		S25	S25	–
Control panel		S22	S22	-
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	–
Internal humidity sensor		FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	–
CO_2 sensor with indication		CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S
Electric reheater		ENH 125 S21 V.2	ENH 125 S21 V.2	–
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 125	SD 125	SD 125
Air damper		VKA 125	VKA 125	VKA 125
Electric actuator		TF230	TF230	TF230

		Reneo S 270 S21	Reneo SE 270 S21	Reneo S 270 S14	Reneo S 240 S21 CF	Reneo SE 240 S21 CF
G4 panel filter		FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4	FP 356x100x48 Coarse 90% G4
F7 panel filter		FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7	FP 356x100x48 ePM1 60% F7
LCD control panel		S25	S25	–	S25	S25
Control panel		S22	S22	–	S22	S22
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	–	S22 Wi-Fi	S22 Wi-Fi
Internal humidity sensor		FS2	FS2	FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	–	CD-3	CD-3
CO_2 sensor with indication		CD-1	CD-1	CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S	HR-S	HR-S
Electric reheater		ENH 125 S21 V.2	ENH 125 S21 V.2	–	ENH 125 S21 V.2	ENH 125 S21 V.2
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 125	SD 125	SD 125	SD 125	SD 125
Air damper		VKA 125	VKA 125	VKA 125	VKA 125	VKA 125
Electric actuator		TF230	TF230	TF230	TF230	TF230

		Reneo S 350(-E) S21	Reneo SE 350(-E) S21	Reneo S 350(-E) S14
G4 panel filter		FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4
F7 panel filter		FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7
Decorative panel		-	-	-
LCD control panel		S25	S25	-
Control panel		S22	S22	-
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	-
Internal humidity sensor		FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	–
CO_2 sensor with indication		CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S
Electric reheater		ENH 160 S21 V.2	ENH 160 S21 V.2	-
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 160	SD 160	SD 160
Air damper		VKA 160	VKA 160	VKA 160
Electric actuator		TF230	TF230	TF230

		Reneo S 351(-E) S21	Reneo SE 351(-E) S21	Reneo S 351(-E) S14
G4 panel filter		FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4
F7 panel filter		FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7
Decorative panel		EP-Reneo S 351	EP-Reneo S 351	EP-Reneo S 351
LCD control panel		S25	S25	-
Control panel		S22	S22	-
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	-
Internal humidity sensor		FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	–
CO_2 sensor with indication		CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S
Electric reheater		ENH 160 S21 V.2	ENH 160 S21 V.2	-
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 160	SD 160	SD 160
Air damper		VKA 160	VKA 160	VKA 160
Electric actuator		TF230	TF230	TF230

		Reneo S 380(-E) S21 CF	Reneo SE 380(-E) S21 CF	Reneo S 381(-E) S21 CF	Reneo SE 381(-E) S21 CF
G4 panel filter		FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4
F7 panel filter		FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7	FP 496x150x60 ePM1 60% F7
Decorative panel		-	-	EP-Reneo S 351	EP-Reneo S 351
LCD control panel		S25	S25	S25	S25
Control panel		S22	S22	S22	S22
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	S22 Wi-Fi	S22 Wi-Fi
Internal humidity sensor		FS2	FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	CD-3	CD-3
CO_2 sensor with indication		CD-1	CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S	HR-S
Electric reheater		ENH 160 S21 V.2	ENH 160 S21 V.2	ENH 160 S21 V.2	ENH 160 S21 V.2
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 160	SD 160	SD 160	SD 160
Air damper		VKA 160	VKA 160	VKA 160	VKA 160
Electric actuator		TF230	TF230	TF230	TF230

		Reneo S 400(-E) S21	Reneo SE 400(-E) S21	Reneo S 401(-E) S21	Reneo SE 401(-E) S21
G4 panel filter		FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4
F7 panel filter		FP 496x150x60 ePM1 65% F7	FP 496x150x60 ePM1 65% F7	FP 496x150x60 ePM1 65% F7	FP 496x150x60 ePM1 65% F7
Decorative panel		–	–	EP-Reneo S 351	EP-Reneo S 351
LCD control panel		S25	S25	S25	S25
Control panel		S22	S22	S22	S22
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	S22 Wi-Fi	S22 Wi-Fi
Internal humidity sensor		FS2	FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	CD-3	CD-3
CO_2 sensor with indication		CD-1	CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S	HR-S
Electric preheater		EVH 160 S21 V.2	–	EVH 160 S21 V.2	–
Electric reheater		ENH 160 S21 V.2	ENH 160 S21 V.2	ENH 160 S21 V.2	ENH 160 S21 V.2
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 160	SD 160	SD 160	SD 160
Air damper		VKA 160	VKA 160	VKA 160	VKA 160
Electric actuator		TF 230	TF 230	TF 230	TF 230

		Reneo S 400(-E) S14	Reneo S 401(-E) S14
G4 panel filter		FP 496x150x60 Coarse 90% G4	FP 496x150x60 Coarse 90% G4
F7 panel filter		FP 496x150x60 ePM1 65% F7	FP 496x150x60 ePM1 65% F7
Decorative panel		–	EP-Reneo S 351
LCD control panel		–	–
Control panel		–	–
Wireless control panel		–	–
Internal humidity sensor		FS2	FS2
Internal CO_2 sensor		–	–
CO_2 sensor with indication		CD-1	CD-1
CO_2 sensor		CD-2	CD-2
Humidity sensor		HR-S	HR-S
Electric preheater		–	–
Electric reheater		–	–
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32
Silencer		SD 160	SD 160
Air damper		VKA 160	VKA 160
Electric actuator		TF 230	TF 230

		Reneo S 550 S21	Reneo SE 550 S21	Reneo S 550 S14
G4 panel filter		FP 596x164x60 Coarse 90% G4	FP 596x164x60 Coarse 90% G4	FP 596x164x60 Coarse 90% G4
F7 panel filter		FP 596x164x60 ePM1 60% F7	FP 596x164x60 ePM1 60% F7	FP 596x164x60 ePM1 60% F7
LCD control panel		S25	S25	-
Control panel		S22	S22	-
Wireless control panel		S22 Wi-Fi	S22 Wi-Fi	-
Internal humidity sensor		FS2	FS2	FS2
Internal CO_2 sensor		CD-3	CD-3	–
CO_2 sensor with indication		CD-1	CD-1	CD-1
CO_2 sensor		CD-2	CD-2	CD-2
Humidity sensor		HR-S	HR-S	HR-S
Electric reheater		ENH 200 S21 V.2	ENH 200 S21 V.2	-
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	SFK 20x32
Silencer		SD 200	SD 200	SD 200
Air damper		VKA 200	VKA 200	VKA 200
Electric actuator		TF230	TF230	TF230