

RENEO-FIT D 100 S14

Heat and energy recovery air handling units

Features

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



Air flow: up to 136 m³/h 38 l/s



Heat recovery efficiency: up to 94%





Design

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

Fans

 High-efficient external rotor EC motors and centrifugal impellers with forward curved blades are used for air supply and exhaust.

Air filtration

- Two built-in G4 and F7 filters provide efficient supply air filtration.
- The G4 filter is used for extract air filtration.

Heat recovery

• The Reneo-Fit D 100 unit is equipped with a counter-flow polysterene heat exchanger for heat recovery. The unit condensate is collected and drained to the drain pan under the heat exchanger.



 The Reneo-Fit D 100-E unit is equipped with an enthalpy counter-flow heat exchanger for heat and humidity recovery.



Mounting

- The units are designed for suspended ceiling mounting.
- o Service access for maintenance and filter replacement must be provided.

Control and automation

o Reneo-Fit D 100 S14 units are equipped with an integrated automation system and an S14 wall-mounted control panel with LED-indication.

Automation functions

Functions	Description
Unit control via a remote wired control panel	S14 control panel
Speed switch	+
Filter replacement indication	by filter timer
Alarm indication	LED indication about alarms
Freeze protection	using cyclical stops of the supply fan
Humidity control	option
CO ₂ control	option
Fire alarm sensor connection	option

Option: the functionality is available when purchasing the appropriate accessory (see the

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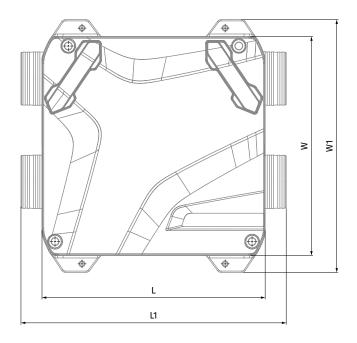


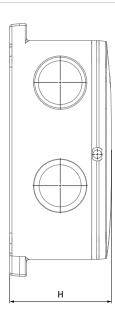
Designation key

Series	Casing modification	Casing type	Heater	Nominal siz	e Modification	Heat exchanger type	Service side	Controller type
Reneo	- Fit: compact	D: suspended	_: w/o heater	10: Nominal airflow	0: by default	: heat recovery E: energy recovery	_: universal	S14

Overall dimensions [mm]

Model	н	L	L1	W	W1
Reneo-Fit D 100(-E) S14	242	530	630	520	600







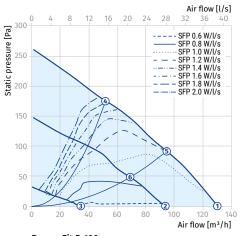
Technical data

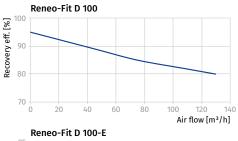
Parameters	Reneo-Fit D 100	Reneo-Fit D 100-E		
Voltage [V / 50 (60) Hz]	1~ 230	1~ 230		
Power [W]	38	38		
Current [A]	0.34	0.34		
Maximum air flow [m³/h (l/s)]	130 (36)	130 (36)		
Sound pressure level at 3 m [dBA]	32	32		
Transported air temperature [°C]	-23+40	-23+40		
Casing material	EPP	EPP		
Insulation [mm]	25	25		
Extract filter	G4 / Coarse >60 %	G4 / Coarse >60 %		
Supply filter	G4 / Coarse >60 % (option: F7 / ePM1 60 %)	G4 / Coarse >60 % (option: F7 / ePM1 60 %)		
Connected air duct diameter [mm]	100 / 125	100 / 125		
Weight [kg]	8	8		
Heat recovery efficiency [%]	82-94	73-88		
Heat exchanger type	counter-flow	counter-flow		
Heat exchanger material	polystyrene	enthalpy		
SEC class	A+	A		

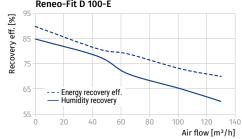
Sound power level, A-weighted	Total	Octave 200	frequen	cy band 800	[Hz] 1000	2000	4000	8000	LpA 3 m	LpA 1 m
LwA to supply outlet [dBA]	59	44	45	49	51	44	37	38	38	48
LwA to exhaust inlet [dBA]	47	41	36	33	31	29	22	24	27	36
LwA to environment [dBA]	53	37	41	43	42	38	34	29	33	42

Sound data provided for point 2 on the diagram.

Point	Air flow [m³h (l/s)]	Total sound pressure level (breakout) at 3 m (1 m) distance [dB(A)]
1	130 (36) @ 0 Pa	32 (42)
2	91 (25) @ 0 Pa	25 (35)
3	52 (14) @ 0 Pa	16 (26)
4	52 (14) @ 171 Pa	31 (41)
5	96 (27) @ 92 Pa	33 (42)
6	68 (19) @ 50 Pa	25 (34)









Accessories

		Reneo-Fit D 100 S14	Reneo-Fit D 100-E S14	
G4 panel filter		FP 176x150x22 G4	FP 176x150x22 G4	
F7 panel filter		FP 176x150x22 F7	FP 176x150x22 F7	
Control panel		S14	S14	
Humidity sensor		FS2	FS2	
Humidity sensor		HR-S	HR-S	
CO ₂ sensor	Sham	CD-2	CD-2	
CO ₂ sensor with indication	On the state of th	CD-1	CD-1	
Syphon kit (for the units without an enthalpy heat exchanger)		SFK 20x32	SFK 20x32	
Air damper		VKA 125	VKA 125	
Electric actuator		TF230	TF230	

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