

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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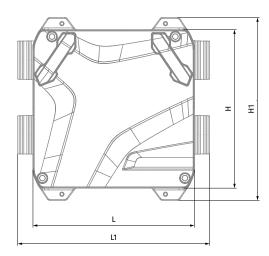


Designation key

Series	Casing modification	Casing type	Heater	Nominal size	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	H1	L	L1	W
Reneo-Fit D 100(-E) S14	520	600	530	630	242





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Technical data

Parameters	Reneo-Fit D 100	Reneo-Fit D 100-E
Voltage [V / 50 (60) Hz]	1~ 230	1~ 230
Power [W]	43	43
Current [A]	0.365	0.365
Maximum air flow [m³/h (l/s)]	136 (38)	136 (38)
Sound pressure level at 3 m [dBA]	30	30
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]	125	125
Weight [kg]	8	8
Heat recovery efficiency [%]	80-94	70-93
Heat exchanger type	counter-flow	counter-flow
Heat exchanger material	polystyrene	enthalpy
SEC class	A+	A

Sound power level, A-weighted	Total	Octave frequency band [Hz] 200 400 800 1000 2000 4000 8000 10000					LpA 3 m	LpA 1 m			
LwA to supply outlet [dBA]	59	45	46	50	51	48	39	39	37	38	48
LwA to exhaust inlet [dBA]	46	35	35	37	36	31	21	23	24	26	35
LwA to environment [dBA]	50	36	39	41	40	37	32	26	25	30	39

Sound data provided for point 2 on the diagram.

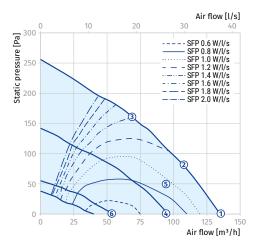
Point	Air flow [m³h (l/s)]	Total sound pressure level (breakout) at 3 m (1 m) distance [dB(A)]
1	135 (37) @ 0 Pa	30 (40)
2	110 (30) @ 84 Pa	30 (39)
3	68 (19) @ 166 Pa	29 (38)
4	95 (26) @ 0 Pa	24 (33)
5	95 (26) @ 50 Pa	22 (32)
6	54 (15) @ 0 Pa	13 (23)

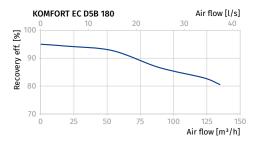
RENEO-FIT D 100

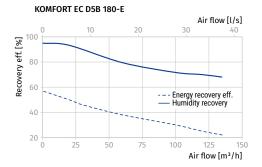
Exhaust terminal configuration	Air flow rate [l/s]	Specific fan power [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional wet room	15	0.6	92
Kitchen + 2 additional wet rooms	21	0.73	88
Kitchen + 3 additional wet rooms	29	0.90	85
Kitchen + 4 additional wet rooms	37	1.20	80

RENEO-FIT D 100-E

Exhaust terminal configuration	Air flow rate [l/s]	Specific fan power [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional wet room	15	0.65	80
Kitchen + 2 additional wet rooms	21	0.75	75
Kitchen + 3 additional wet rooms	29	0.93	71
Kitchen + 4 additional wet rooms	37	1.20	69









Accessories

		Reneo-Fit D 100 S14	Reneo-Fit D 100-E S14
G4 panel filter		FP 176x160x22 G4	FP 176x160x22 G4
F7 panel filter		FP 176x160x22 F7	FP 176x160x22 F7
Control panel		S14	\$14
Humidity sensor		FS2	F\$2
Humidity sensor		HR-S	HR-S
CO ₂ sensor	Shame Shame	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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