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⊠ sensor		CD-2	CD-2
CO⊠ sensor with indication		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

德国博乐通风集团 中国代表处
博乐环境系统（苏州）有限公司

全国服务热线：400-825-0508
公司网址：www.blauberg.cn
版 本 号：302010166-2307

微信公众号

Reneo-Fit D 100

DATA SHEET

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

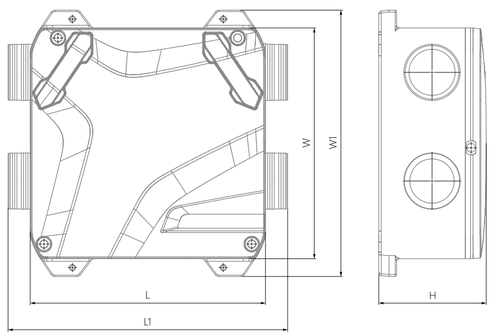
Heat recovery efficiency: up to 94 %

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



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.
- Service access for maintenance and filter replacement must be provided.

Control and automation

- 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
CO2 control	option
Fire alarm sensor connection	option

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

EPP HEAT AND ENERGY RECOVERY AIR HANDLING UNITS

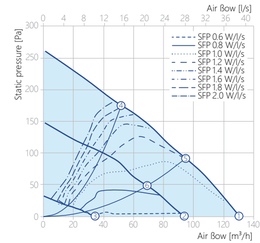
Technical data

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

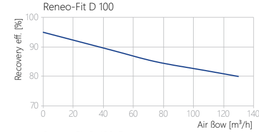
ound power level, weighted	Total	Octave frequency band [Hz] 200	400	800	1000	2000	4000	8000	LpA 3 m	LpA 1 m
A to supply outlet [dBA]	59	44	45	49	51	44	**37**	38	38	48
A to exhaust inlet [dBA]	47	41	36	33	31	29	22	24	27	36
A to environment [dBA]	53	**37**	41	43	42	38	34	29	33	42

und data provided for point 2 on the diagram.

oint	**Air flow [m³/h (l/s)]**	Total sound pressure level (breakout) at 3 m (1 m) distance [dB(A)]
	130 (36) @ 0 Pa	32 (42)
	91 (25) @ 0 Pa	25 (35)
	52 (14) @ 0 Pa	16 (26)
	52 (14) @ 171 Pa	31 (41)
	96 (27) @ 92 Pa	33 (42)
	68 (19) @ 50 Pa	25 (34)



Reneo-Fit D 100



Reneo-Fit D 100-E