

Series  
**VENTS**  
**ENAVE-C 100 P A14**



Heat recovery air handling units in sound- and heat-insulated casings. Air flow up to **130 m<sup>3</sup>/h**. Heat recovery efficiency up to **94 %**

**Description**

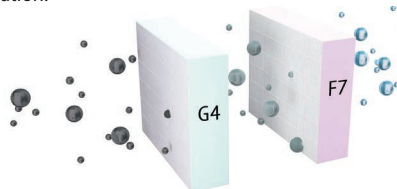
The air handling units are the fully featured ventilation units with heat recovery for air filtration, fresh air supply and stale air extract. The units offer energy-efficient ventilation for small apartments.

**Casing**

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

**Filter**

Two built-in G4 and F7 filters provide efficient air filtration.

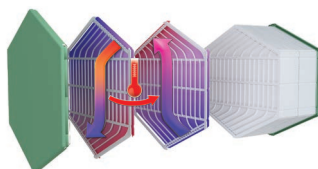


**Fans**

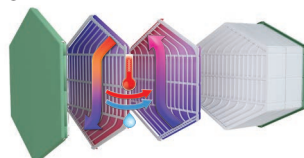
Efficient electronically commutated motors with external rotor and impeller with forward curved blades.

**Heat exchanger**

Enave-C units are equipped with a counter-flow polystyrene heat exchanger.



Enave-CT units are equipped with an enthalpy heat exchanger.



**Automation**

Enave-C 100 P A14 units are equipped with an integrated control system and an A14 wall-mounted control panel with LED indication.


**Freeze protection**

In the Enave-C 100 P A14 units freeze protection is provided by the shutdown of the supply fan.

**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	A14
	A14
Control via external wired control panel	
Speed selection	+
Filter replacement indication	According to filter timer
Alarm indication	Alarm LED indication
Freeze protection	Cyclic shutdown of supply fan
Humidity control	Option
CO <sub>2</sub> control	Option
Fire alarm connection	Option

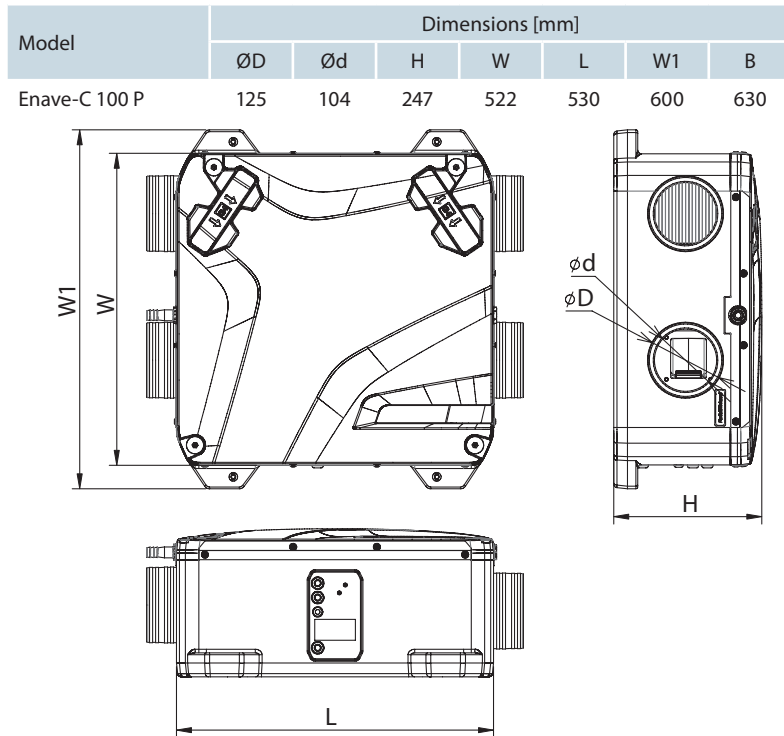
**Accessories for air handling units**

Model	G4 panel filter	F7 panel filter	Internal humidity sensor	CO <sub>2</sub> sensor with indication	CO <sub>2</sub> sensor	Humidity sensor	U-trap kit	Air damper	Electric actuator
Enave-C 100 P A14	SF	SF	HV2	CO2-1	CO2-2	HR-S	SG-32	KRV 125	LF230
Enave-CT 100 P A14	G4	F7							

**Designation key**

TM	Model	Casing modification	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Controller	Service side
VENTS	Enave	C – Compact	– heat recovery T – energy recovery	Air flow m <sup>3</sup> /h / 10	0 – standard	P – suspended	– w/o heater	A14	– universal

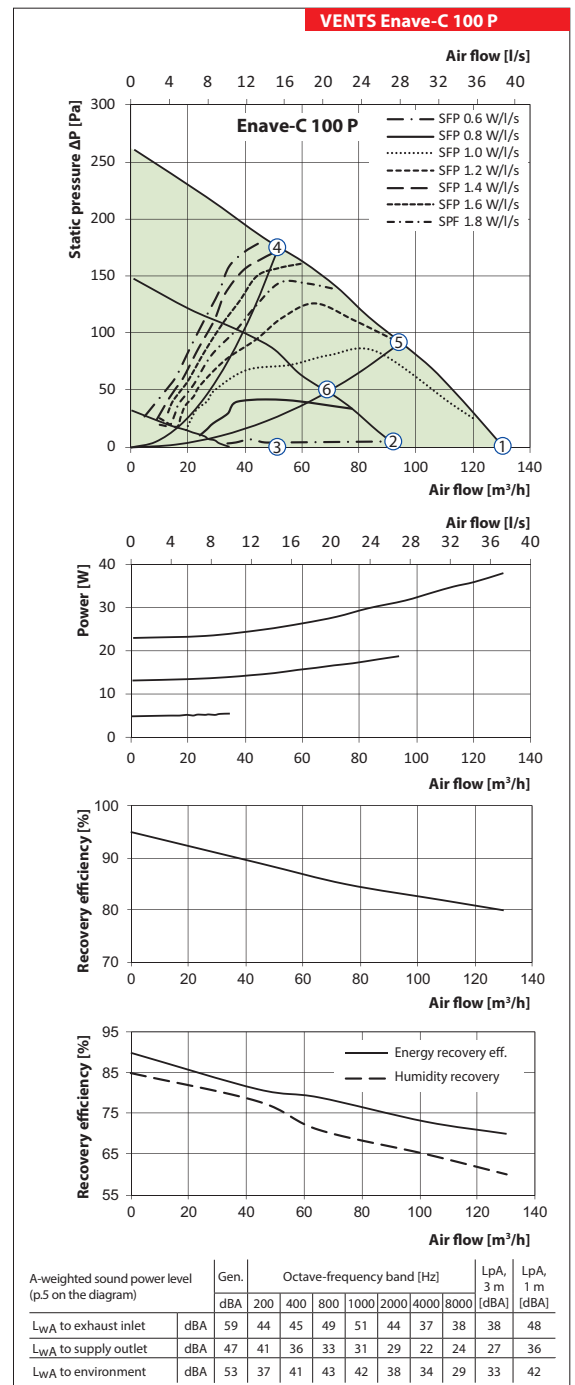
**Overall dimensions**



**Technical data**

	Enave-C 100 P	Enave-CT 100 P
Voltage [V/50-60 Hz]	1~ 230	
Max. unit power [W]	38	
Max. unit current [A]	0.34	
Max air flow [m³/h]	130	
Max. sound pressure level at 3 m distance (breakout) [dBA]	32	
Max. operating temperature [°C]	- 23...+40	
Case material	EPP	
Insulation [mm]	25	
Extract filter	G4 / Coarse > 60%	
Supply filter	G4 / Coarse > 60% (option F7 / ePM1 60%)	
Connected air duct diameter [mm]	100 / 125	
Weight [kg]	8	
Heat recovery efficiency [%]	82-94	73-88
Heat exchanger type	Counter-flow	
Heat exchanger material	Polystyrene	Enthalpy
SEC class	A+	A

Point	Air flow [m³/h] (ls)	Total sound pressure level (breakout) at 3 m (1 m) distance [dBA]
	Enave-C(T) 100 P	Enave-C(T) 100 P
1	130 (36)	32 (42)
2	91 (25)	25 (35)
3	52 (14)	16 (26)
4	52 (14)	31 (41)
5	96 (27)	33 (42)
6	68 (19)	25 (34)



**Calculation of air temperature downstream of the heat exchanger:**

$$t_{\text{outd}} = t_{\text{outd}} + k_{\text{hr}} * (t_{\text{extr}} - t_{\text{outd}}) / 100,$$

where

t<sub>outd</sub> is outdoor air temperature [°C]

t<sub>extr</sub> is extract air temperature [°C]

k<sub>hr</sub> is heat exchanger efficiency (according to the diagram) [%]