

Series
VENTS Enave 210 / 270 V



Heat recovery air handling units in sound- and heat-insulated casings. Air flow up to **331 m³/h**. Heat recovery efficiency up to **89 %**

Description

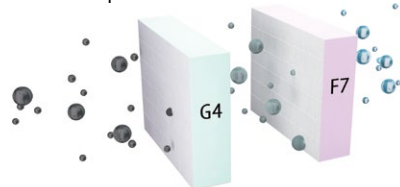
The air handling units are the fully featured ventilation units with heat recovery for air filtration, fresh air supply and stale air extract. The units offer energy-efficient ventilation for small appartments.

Casing

The casing is made of expanded polypropylene (EPP) possessing high heat- and sound-insulating properties.
Enave 210 / 270 V L – left-handed version.
Enave 210 / 270 V R – right-handed version.

Filter

Two built-in **Coarse 90% (G4)** filters provide efficient air filtration. **ePM1 65% (F7)** supply filter can be installed as an option.



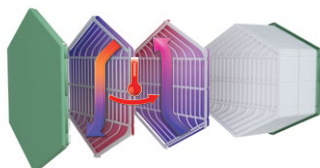
Fans

Units' fans are equipped with electronically commutated motors.

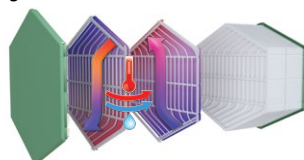
Enave(-T) 240 V A21 CF units are available with Constant flow function - the fans automatically maintain a constant air volume

Heat Exchanger

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



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



Bypass

Units are equipped with a bypass for summer cooling.

Automation

Enave V A21 units are equipped with a built-in automation system. The **A21** controller allows to integrate the unit into the **Smart Home system** or **BMS (Building Management System)**. To control the unit via Wi-Fi, download the **Vents Home** smartphone app.

Enave V A14 units have an integrated control system with a wall-mounted control panel equipped with LED indication.



Google play



Download on the App Store







Frost protection

For **Enave V** units the frost protection is realized by shutting down the supply fan. Optional duct pre-heater is available for units with A21 control system.

Mounting

The unit is designed for wall and floor mounting. The mounting position of the unit must provide service access for maintenance and repair.

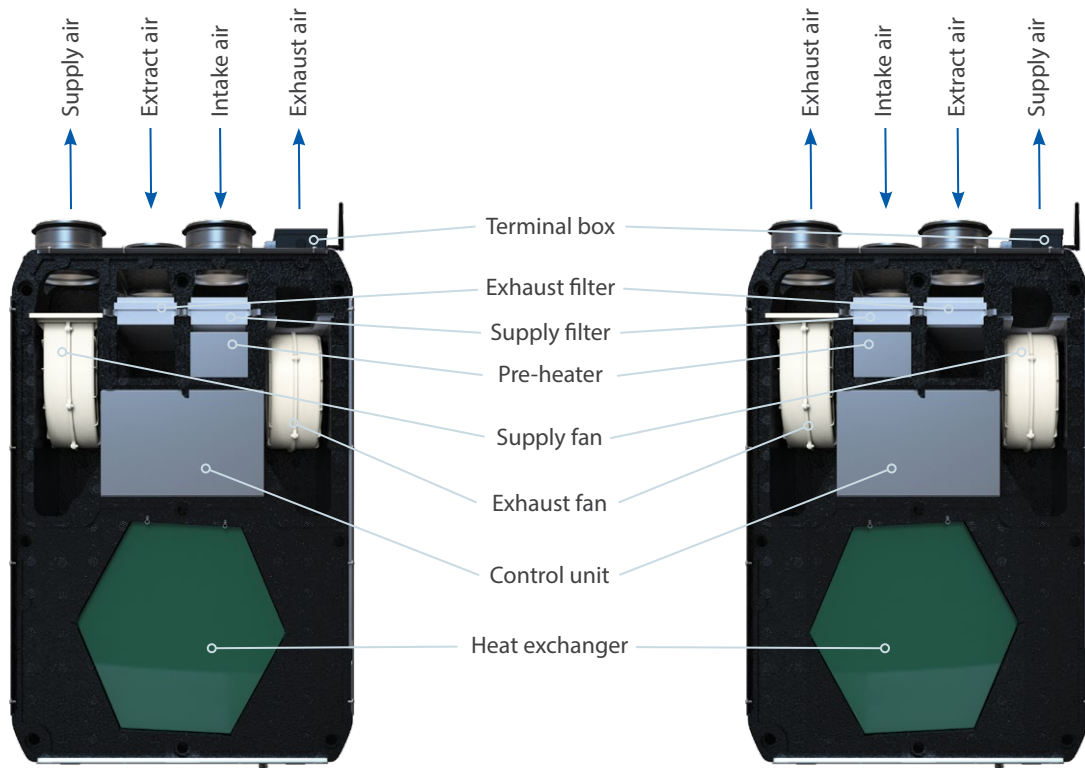
Control and automation

Functions	A21	A14
Wired remote control pane	A22 (option) 	A14 
Control via a wired remote LCD control panel	A25 (option) 	-
Wireless remote control panel	A22 Wi-Fi (option) 	-
BMS	ModBus RTU (RS-485) ModBus TCP/IP (Wi-Fi, Ethernet)	-
Vents Cloud Server service	+	-
Control via Wi-Fi using a smartphone app	+	-
Frost protection	+	+
Bypass	Auto, manual	Manual
Week-scheduled operation	+	-
Filter replacement indication	Filter timer	+
Alarm indication	+	+
Speed selection	+	+
Timer	+	-
RH% sensor	Option	Option
CO ₂ sensor	Option	Option
VOC sensor	Option	Option
PM _{2.5} sensor	Option	Option
Boost mode	+	-
Fireplace mode	+	-
Reheater connection	+	-
Fire alarm sensor connection	+	+
Minimum supply air temperature control	+	-

Designation key

TM	Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Control system	Version	Airflow control
VENTS	Enave	_ – heat recovery T – energy recovery	Air flow m³/h /10	0 – standard	V - vertical	_ – w/o heater E – integrated pre-heater	A21, A14	L – left R – right	_ – standard CF - constant flow

Unit design

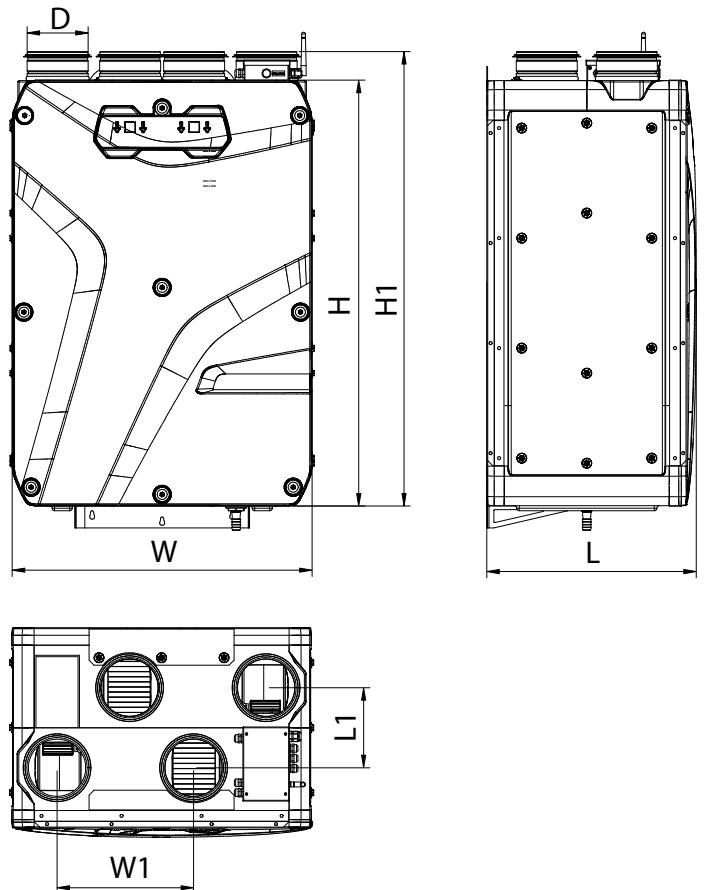


Enave 210 / 270 V L

Enave 210 / 270 V R

Overall dimensions

Model	Dimensions [mm]						
	H	W	L	H1	W1	L1	ØD
Vents Enave 210 / 270 V	900	598	452	958	273	190	125

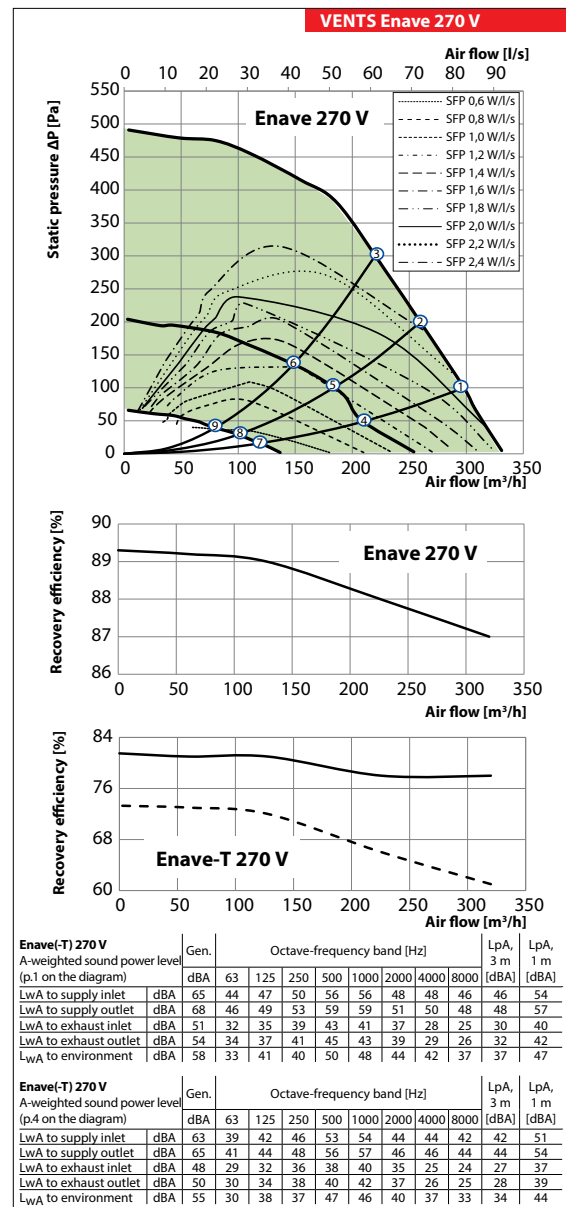
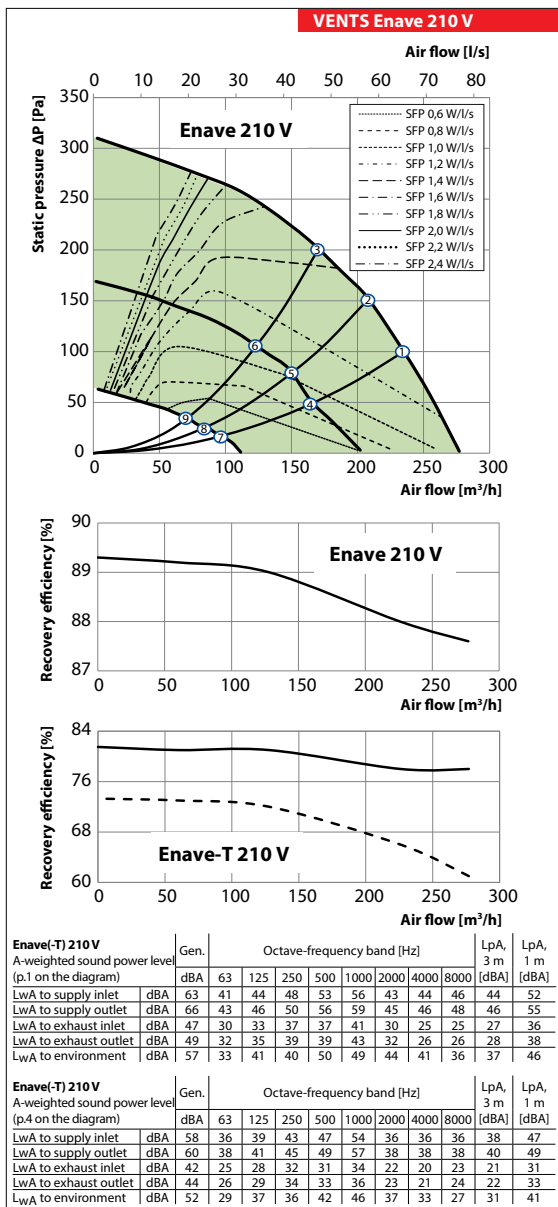


AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	Enave 210 V	Enave-T 210 V	Enave 210 VE	Enave-T 210 VE	Enave 270 V	Enave-T 270 V	Enave 270 VE	Enave-T 270 VE
Voltage [V / 50-60 Hz]	230							
Max. unit power without electric heater [W]	125			182				
Integrated electric heater power [W]	-	-	800	800	-	-	1400	1400
Max. unit power [W]	125	125	925	925	182	182	1582	1582
Max. unit current without electric heater [A]	1.0			1.4				
Integrated electric heater current [A]	-	-	3.55	3.55	-	-	6.21	6.21
Max. unit current [A]	1,0	1,0	4,55	4,55	1,4	1,4	7,61	7,61
Max air flow [m³/h]	277			331				
Sound pressure level at 3 m distance* [dBA]	31			34				
Max. operating temperature [°C]	- 25...+40							
Insulation [mm]	25							
Extract filter	G4 / Coarse > 60%							
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)							
Connected air duct diameter [mm]	125							
Weight [kg]	20	22	20	22	22	24	22	24
Heat recovery efficiency [%]	89	83	89	83	89	83	89	83
Heat exchanger type	Counter-flow							
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A	A	A	A	A

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



Technical data

	Enave 240 V CF	Enave-T 240 V CF	Enave 240 VE CF	Enave-T 240 VE CF
Voltage [V / 50-60 Hz]			230	
Max. unit power without electric heater [W]			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	
Integrated electric heater current [A]	-	-	3,55	3,55
Max. unit current [A]	1,4	1,4	4,95	4,95
Max air flow [m ³ /h]			235	
Sound pressure level at 3 m distance* [dBA]			28	
Max. operating temperature [°C]			- 25...+40	
Insulation [mm]			25	
Extract filter			G4 / Coarse > 60%	
Supply filters			G4 / Coarse > 60% (option F7 / ePM1 60%)	
Connected air duct diameter [mm]			125	
Weight [kg]	20	22	20	22
Heat recovery efficiency [%]	89	83	89	83
Heat exchanger type		Counterflow		
Heat exchanger material	Polysterene	Enthalpy membrane	Polysterene	Enthalpy membrane
SEC class	A+	A	A+	A

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

