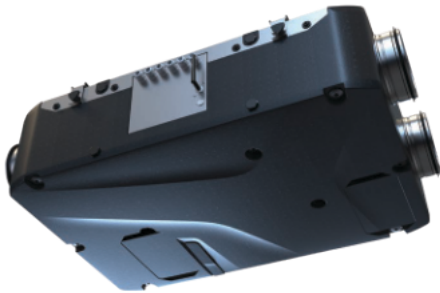


Series VENTS Enave P



Heat recovery air handling units in sound- and heat-insulated casings.
Air flow up to **313 m³/h**.
Heat recovery efficiency up to **91 %**

Description

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

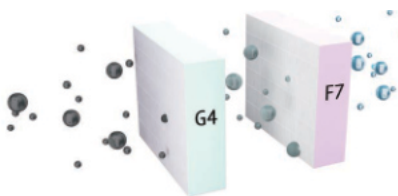
Casing

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



Filter

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

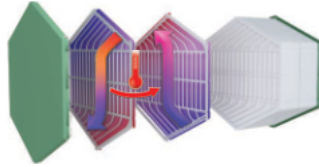


Fans

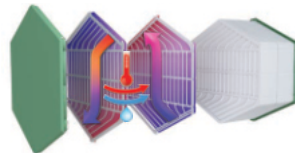
The units' fans are equipped with electronically-commutated motors.

Heat exchanger

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



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



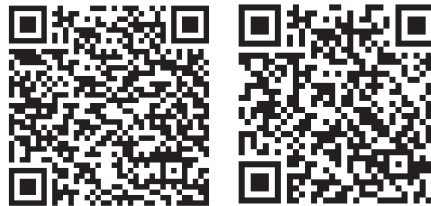
Bypass

The units are equipped with a bypass for summer cooling.

Automation

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



Google play Download on the App Store



Frost protection

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

Mounting

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

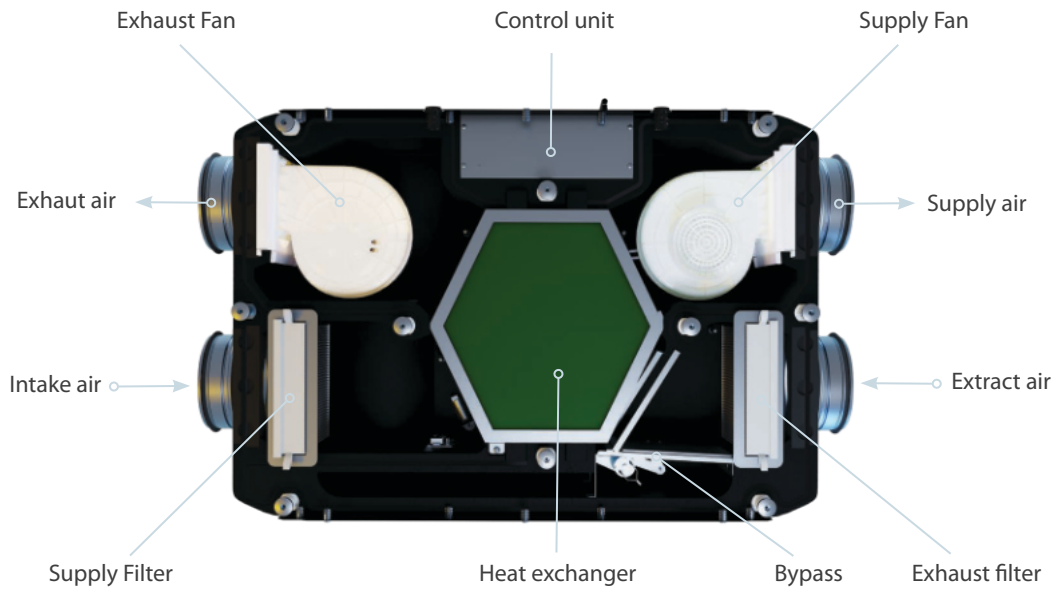
Control and automation

Functions	A14	A21
Wired remote control pane	A14 	A22 (option)
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	Manual	Auto, manual
Week-scheduled operation	-	+
Filter replacement indication	+	Filter timer
Alarm indication	+	+
Speed selection	+	+
Timer	-	+
RH% sensor	Option	Option
CO2 sensor	Option	Option
VOC sensor	Option	Option
PM2.5 sensor	Option	Option
Boost mode	-	+
Fireplace mode	-	+
Preheater connection	-	+
Reheater connection	-	+
Cooler connection	-	+
Fire alarm sensor connection	+	+
Minimum supply air temperature control	-	+

Designation key

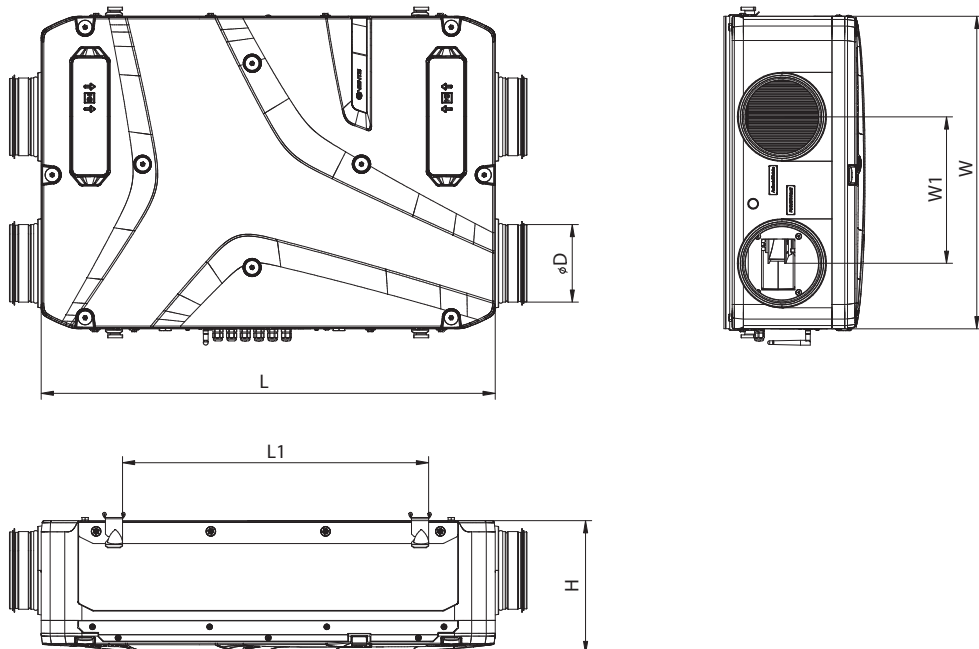
TM	Model	Heat exchanger type	Nominal size	Modification	Casing type	Controller
VENTS	Enave	_ – heat recovery T – energy recovery	Airflow m ³ /h /10	0 – standart 1 – flat service hatch suitable for decorative panel installation	P – suspended	A21, A14

Unit design



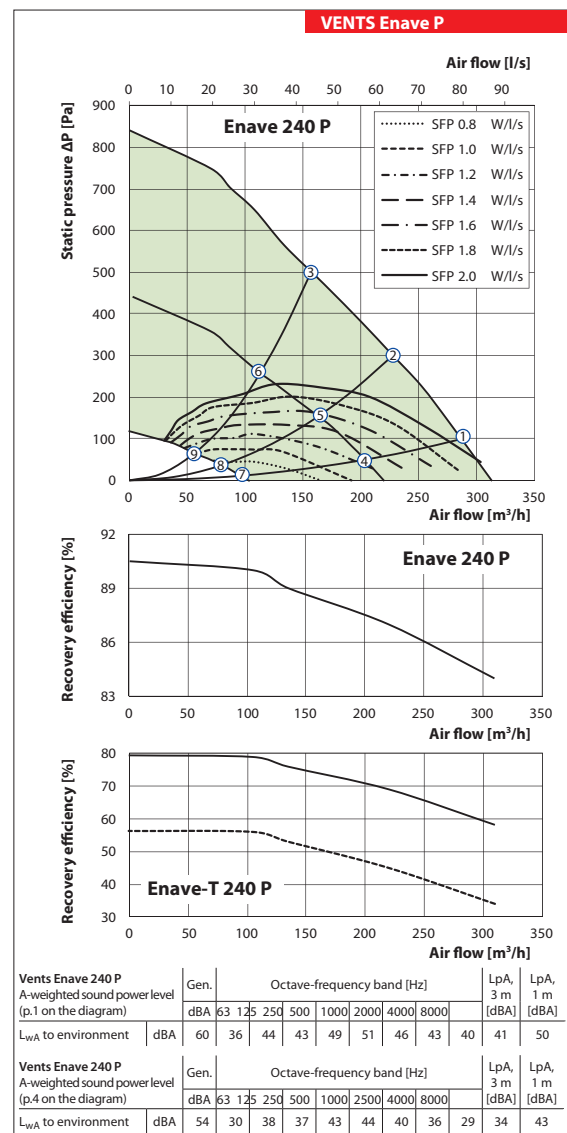
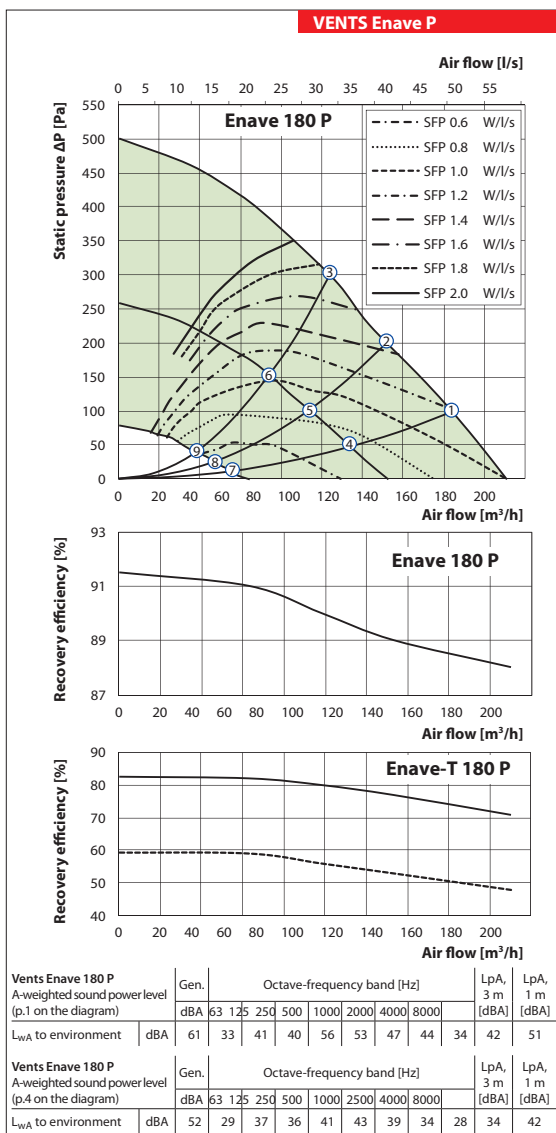
Overall dimensions

Model	Dimensions [mm]					
	H	W	L	ØD	W1	L1
Vents Enave P	272	640	930	160	300	627











Technical data

	Vents Enave 180 P	Vents Enave-T 180 P	Vents Enave 240 P	Vents Enave-T 240 P
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power [W]	54	54	168	168
Max. unit current [A]	0.46	0.46	1.3	1.3
Max air flow [m ³ /h]	191	191	313	313
Sound pressure level at 3 m distance [dBA]	34	34	35	35
Max. operating temperature [°C]	45	45	45	45
Case material	EPP	EPP	EPP	EPP
Insulation	25 mm	25 mm	25 mm	25 mm
Extract filter	Coarse >60 %	Coarse >60 %	Coarse >60 %	Coarse >60 %
Supply filters	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)	Coarse >60 % (option ePM1 60 %)
Connected air duct diameter [mm]	160	160	160	160
Weight [kg]	12	15	13	16
Heat recovery efficiency [%]	91	82	90	79
Heat exchanger type	Counterflow	Counterflow	Counterflow	Counterflow
Heat exchanger material	Polysterene	Enthalpy	Polysterene	Enthalpy
SEC class	A+	A	A	A



Accessories for air handling units

	Filter G4	Supply filter F7	Decorative panel	Control panel	Control panel	WiFi Control panel	Internal humidity sensor	Internal CO2 sensor
								
Enave 180 P A21	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	-	A25	A22	A22 Wi-Fi	HV2	CO2-3
Enave-T 180 P A21								
Enave 181 P A21			PD-Enave 181 P					
Enave-T 181 P A21								
Enave 240 P A21	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	-	-	-	-	HV2	CO2-3
Enave-T 240 P A21								
Enave 241 P A21			PD-Enave 181 P					
Enave-T 241 P A21								
Enave 180 P A14	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	-	-	-	-	HV2	CO2-3
Enave-T 180 P A14								
Enave 181 P A14			PD-Enave 181 P					
Enave-T 181 P A14								
Enave 240 P A14	SF 205x200x48 Coarse 90% G4	SF 205x200x48 ePM1 60% F7	-	-	-	-	HV2	CO2-3
Enave-T 240 P A14								
Enave 241 P A14			PD-Enave 181 P					
Enave-T 241 P A14								

	External CO2 sensor with indication	External CO2 sensor	External humidity sensor	Electrical preheater	Electrical reheater	Syphon kit	Silencer	Air damper	Electric actuator
									
Enave 180 P A21	CO2-1	CO2-2	HR-S	NKP 160 A21 V.2	NKD 160 A21 V.2	SH-32	SR 160	KRV 160	TF 230
Enave-T 180 P A21									
Enave 181 P A21									
Enave-T 181 P A21									
Enave 240 P A21									
Enave-T 240 P A21									
Enave 241 P A21									
Enave-T 241 P A21									
Enave 180 P A14	CO2-1	CO2-2	HR-S	-	-	-	-	-	-
Enave-T 180 P A14									
Enave 181 P A14									
Enave-T 181 P A14									
Enave 240 P A14									
Enave-T 240 P A14									
Enave 241 P A14									
Enave-T 241 P A14									