

Series
VENTS ENAVE 550 V



Heat recovery air handling units in sound- and heat-insulated casings.
Air flow up to **720 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 extract. The units offer energy-efficient ventilation for small appartments.

Casing

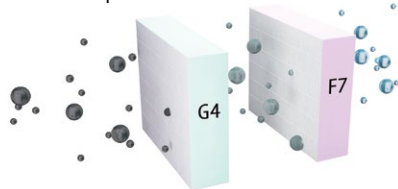
The casing is made of expanded polypropylene (EPP) possessing high heat- and sound-insulating properties.

Enave 550 V L – left-handed version.

Enave 550 V R – right-handed version.

Filter

Two built-in **Coarse 90% (G4)** filters provide efficient air filtration. **ePM1 60% (F7)** supply filter can be installed as an option.

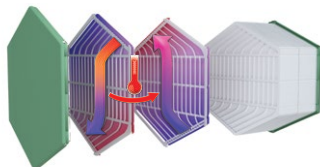


Fans

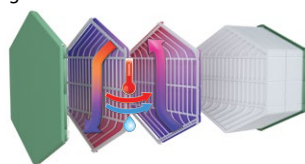
Units' fans are equipped with electronically-commutated motors.

Heat Exchanger

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



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



Bypass

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.

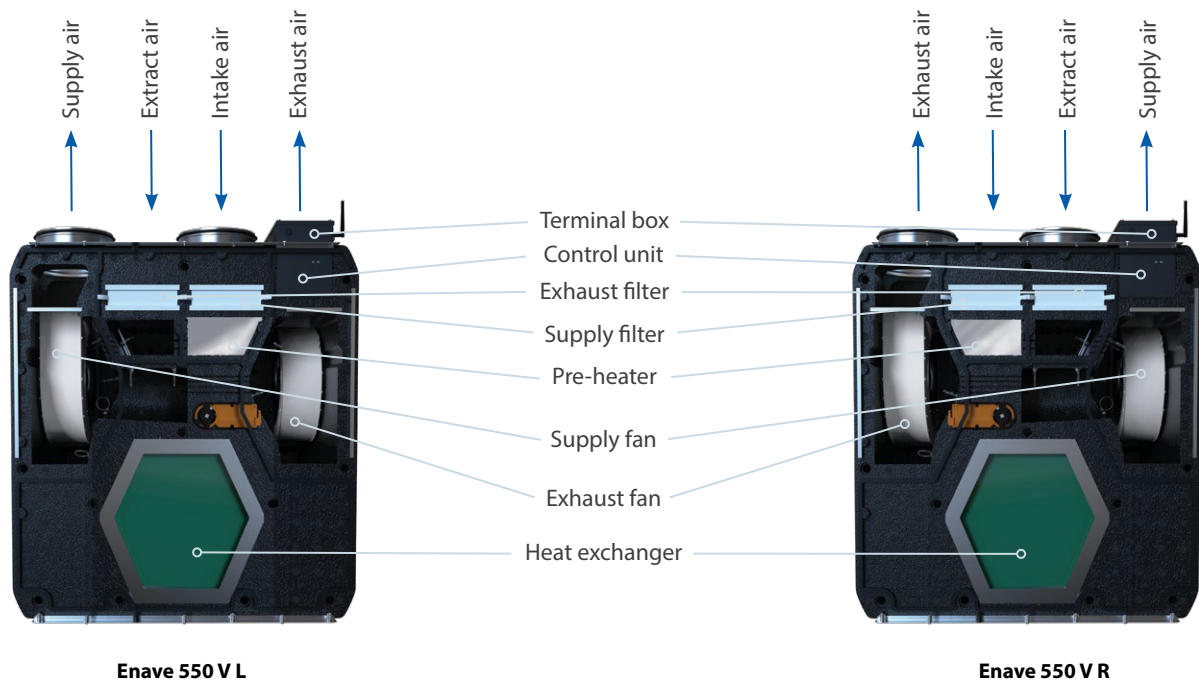
Control and automation

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
PM2.5 sensor	Option	Option
Boost mode	+	-
Fireplace mode	+	-
Reheater connection	+	-
Fire alarm sensor connection	+	+
Minimum supply air temperature control	+	-

Designation key

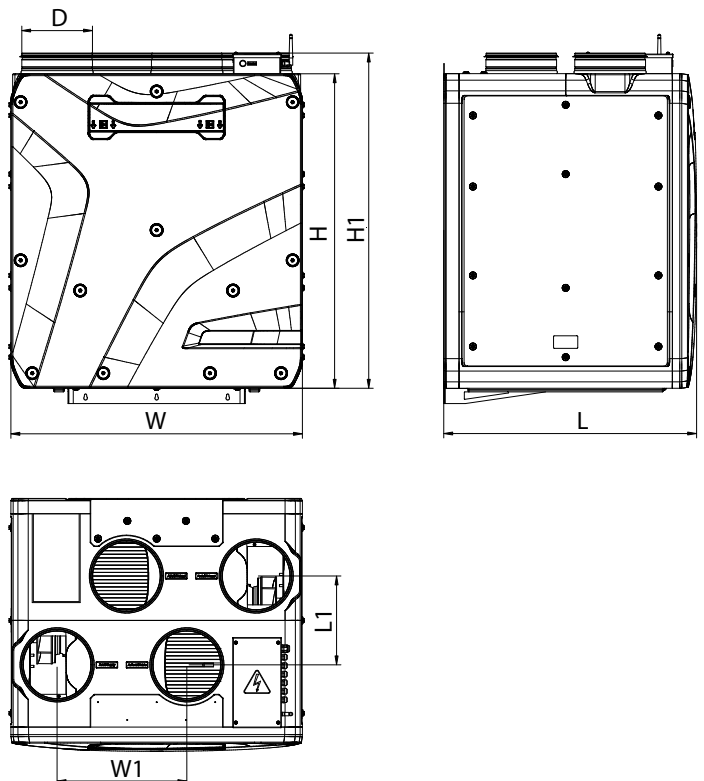
TM	Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Control system	Version
VENTS	Enave	_ – heat recovery T – energy recovery	Airflow m ³ /h /10	0 – standard	V - vertical	_ – w/o heater E – integrated pre-heater	A21, A14	L – left R – right

Unit design



Overall dimensions

Model	Dimensions [mm]						
	H	W	L	H1	W1	L1	ØD
Vents Enave 550 V	885	830	711	943	365	250	200

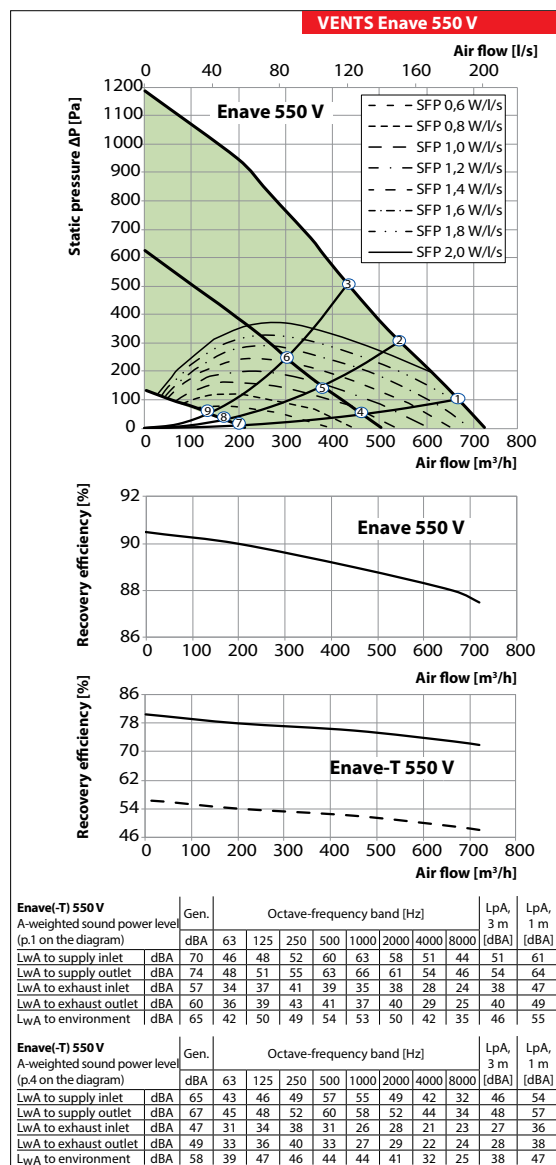


AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	Enave 550 V	Enave-T 550 V	Enave 550 VE	Enave-T 550 VE
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	346	346	346	346
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	346	346	1746	1746
Max. unit current without electric heater [A]	2.4	2.4	2.4	2.4
Integrated electric heater current [A]	-	-	6.21	6.21
Max. unit current [A]	2.4	2.4	8.61	8.61
Max air flow [m ³ /h]	720			
Sound pressure level at 3 m distance* [dBA]	38			
Max. operating temperature [°C]	- 25...+40			
Case material	EPP			
Insulation	45 mm			
Extract filter	G4 / Coarse >60 %			
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)			
Connected air duct diameter [mm]	200			
Weight [kg]	52	55	52.5	55.5
Heat recovery efficiency [%]	91	80	91	80
Heat exchanger type	Counterflow	Counterflow	Counterflow	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.



Accessories for air handling units

	Filter G4	Filter F7	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor	Internal CO ₂ sensor
Enave 550 V A21	SF 596x164x60 Coarse 90% G4	SF 596x164x60 ePM1 60% F7	A25	A22	A22 Wi-Fi	HV2	CO2-3
Enave-T 550 V A21			-	-	-		-
Enave 550 VE A21			-	-	-		-
Enave-T 550 VE A21			-	-	-		-
Enave 550 V A14			-	-	-		-
Enave-T 550 V A14			-	-	-		-

	External CO ₂ sensor with indication	External CO ₂ sensor	External humidity sensor	Electrical reheater	Syphon kit	Silencer	Air damper	Electric actuator
Enave 550 V A21	CO2-1	CO2-2	HR-S	NKD 200 A21 V.2	SH-32	SR 200	KRV 200	TF 230
Enave-T 550 V A21				-				
Enave 550 VE A21				-				
Enave-T 550 VE A21				-				
Enave 550 V A14				-				
Enave-T 550 V A14				-				