

Series
VENTS Enave 350 V



Heat recovery air handling units in sound- and heat-insulated casings. Air flow up to **410 m³/h**. Heat recovery efficiency up to **93 %**

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 appartments.

Casing

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

Enave 350 V L – left-handed version.

Enave 350 V R – right-handed version.

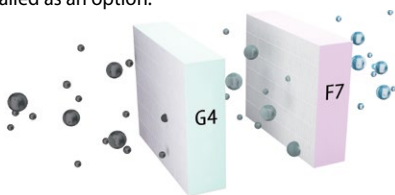
Units Enave 351 / 351 V

have flat service hatch design, suitable for decorative panel installation (delivered separately).



Filter

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



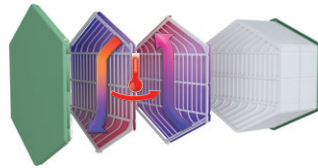
Fans

Units' fans are equipped with electronically commutated motors.

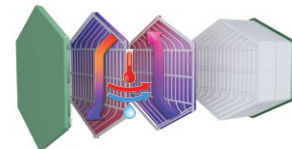
Enave(-T) 380 V A21 CF units are available with Constant flow function - the fans automatically maintain a constant air volume.

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 implemented by shutting down the supply fan regularly. 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.

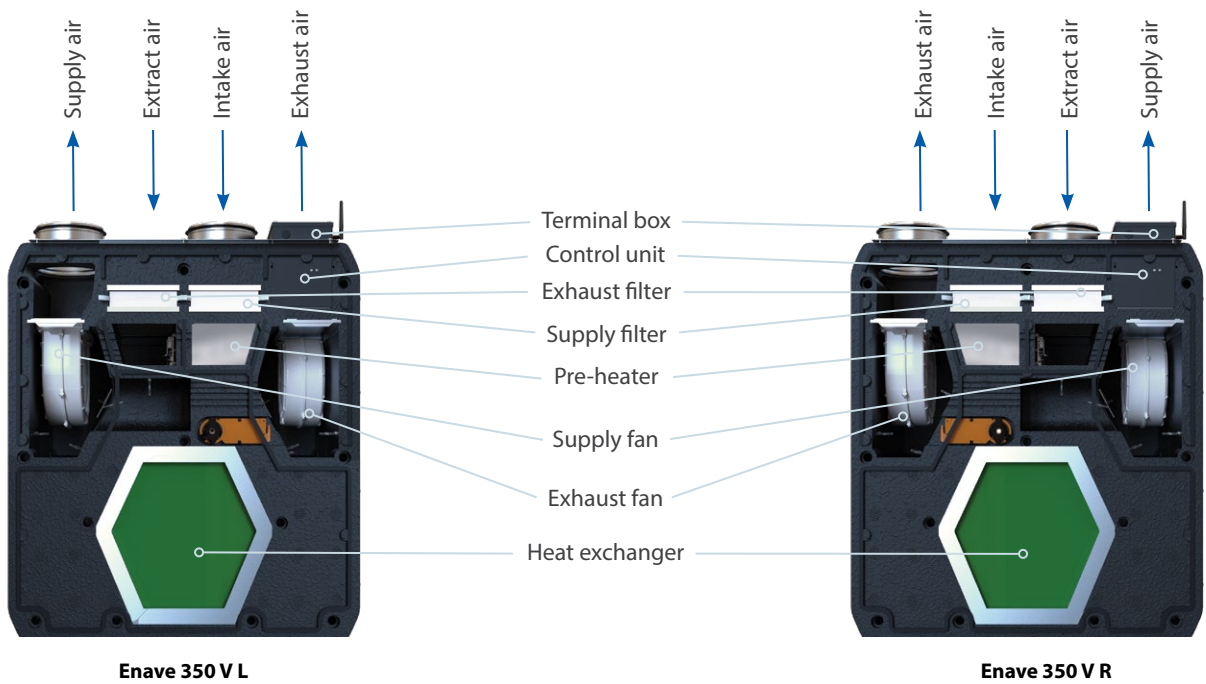
Control and automation

Functions	A21	A14
	A22 (option)	A14
Wired remote control pane		
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	Airflow control
VENTS	Enave	_ – heat recovery T – energy recovery	Air flow m ³ /h /10	0 – standard 1 – flat service hatch suitable for decorative panel installation	V – vertical	_ – w/o heater E – integrated pre-heater	A21, A14	L – left R – right	_ – standard CF – constant flow

Unit design

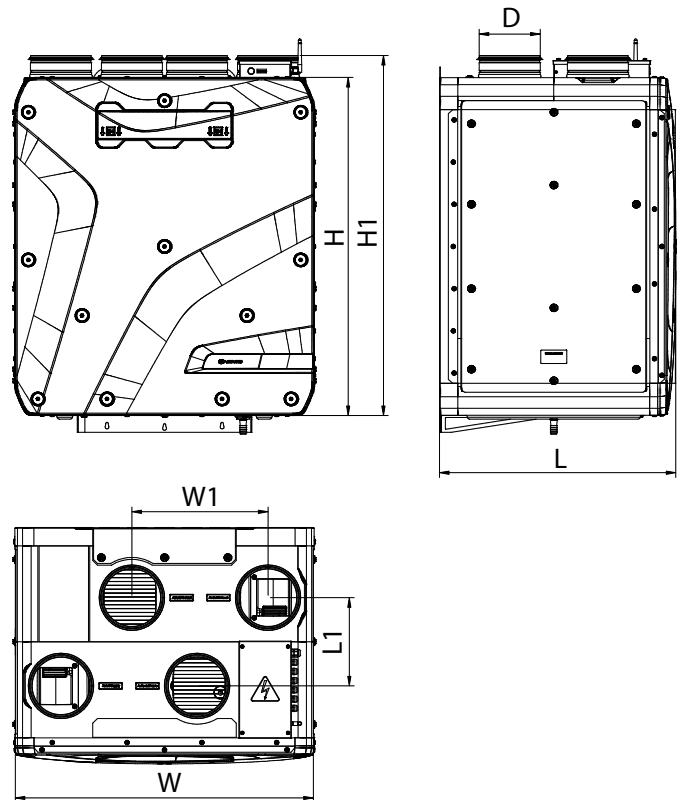


Enave 350 V L

Enave 350 V R

Overall dimensions

Model	Dimensions [mm]							
	H	W	L	H1	W1	L1	ØD	
Vents Enave 350 V	880	770	616	939	355	230	160	

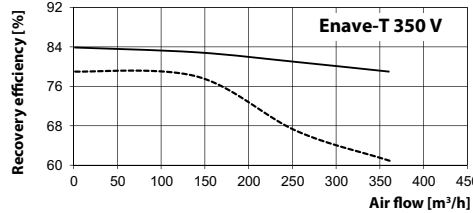
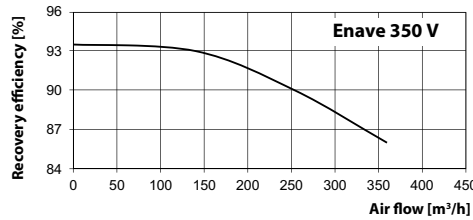
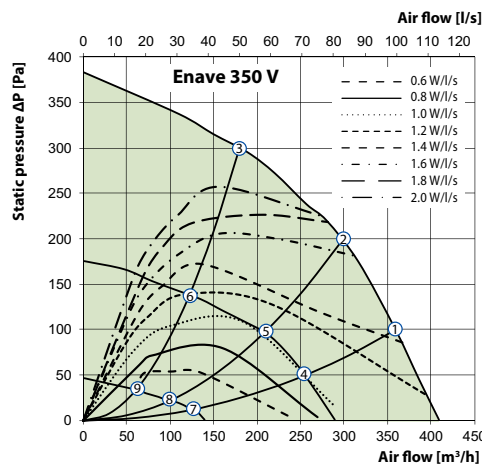


Technical data

	Enave 350 V	Enave-T 350 V	Enave 350 VE	Enave-T 350 VE
Voltage [V / 50-60 Hz]			230	
Max. unit power without electric heater [W]			213	
Integrated electric heater power [W]		-		1050
Max. unit power [W]	213			1263
Max. unit current without electric heater [A]			1.62	
Integrated electric heater current [A]		-		4,66
Max. unit current [A]	1.62			6.28
Max air flow [m ³ /h]			410	
Sound pressure level at 3 m distance* [dBA]			26	
Max. operating temperature [°C]			- 25...+40	
Case material			EPP	
Insulation [mm]			45	
Extract filter			Coarse > 60 %	
Supply filters			Coarse > 60 % (option ePM1 60 %)	
Connected air duct diameter [mm]			160	
Weight [kg]			26	
Heat recovery efficiency [%]	93	83	93	83
Heat exchanger type		Counter-flow		
Heat exchanger material	Polystyrene	Enthalpy membrane	Polystyrene	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.

VENTS Enave 350 V



Enave(T) 350 V A-weighted sound power level (p.1 on the diagram)	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2500	4000			8000
L _{WA} to supply inlet	dBA	61	35	38	42	48	53	48	43	45	40	50
L _{WA} to supply outlet	dBA	64	37	40	44	51	56	50	45	47	43	53
L _{WA} to exhaust inlet	dBA	50	33	36	40	40	39	33	28	26	29	39
L _{WA} to exhaust outlet	dBA	48	31	34	38	38	37	31	27	25	27	37
L _{WA} to environment	dBA	55	31	39	38	44	45	42	37	34	36	45

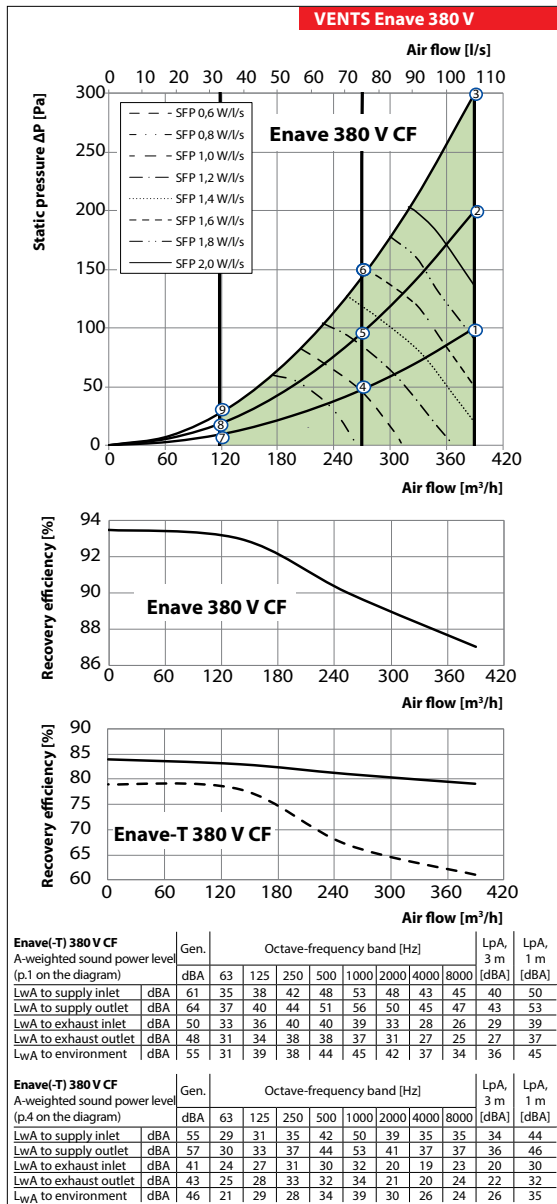
Enave(T) 350 V A-weighted sound power level (p.4 on the diagram)	Gen.	Octave-frequency band [Hz]								LpA, 3 m [dBA]	LpA, 1 m [dBA]	
		dBA	63	125	250	500	1000	2500	4000			8000
L _{WA} to supply inlet	dBA	55	29	31	35	42	50	39	35	35	34	44
L _{WA} to supply outlet	dBA	57	30	33	37	44	53	41	37	37	36	46
L _{WA} to exhaust inlet	dBA	41	24	27	31	30	32	20	19	23	20	30
L _{WA} to exhaust outlet	dBA	43	25	28	33	32	34	21	20	24	22	32
L _{WA} to environment	dBA	46	21	29	28	34	39	30	26	24	26	35

AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	Vents Enave 380 V CF	Vents Enave-T 380 V CF	Vents Enave 380 VE CF	Vents Enave-T 380 VE CF
Voltage [V / 50-60 Hz]				230
Max. unit power without electric heater [W]				247
Integrated electric heater power [W]	-	-	1050	1050
Max. unit power [W]	247	247	1297	1297
Max. unit current without electric heater [A]	1,8	1,8	1,8	1,8
Integrated electric heater current [A]	-	-	3,55	3,55
Max. unit current [A]	1,9	1,9	5,35	5,35
Max air flow [m³/h]				390
Sound pressure level at 3 m distance* [dBA]				26
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]				160
Weight [kg]				26
Heat recovery efficiency [%]	93	83	93	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.



Accessories for air handling units

	Filter G4	Filter F7	Decorative panel	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor	Internal CO ₂ sensor		
Enave 350 V A21	SF 496x150x60 Coarse 90% G4	SF 496x150x60 ePM1 65% F7	-	A25	A22	A22 Wi-Fi	HV2	CO2-3		
Enave-T 350 V A21			-							
Enave 350 VE A21			-							
Enave-T 350 VE A21			-							
Enave 351 V A21			PD-Enave 351 V							
Enave-T 351 V A21			PD-Enave 351 V							
Enave 351 VE A21			PD-Enave 351 V							
Enave-T 351 VE A21			PD-Enave 351 V							
Enave 380 V A21 CF			PD-Enave 351 V							
Enave-T 380 V A21 CF			PD-Enave 351 V							
Enave 380 VE A21 CF			PD-Enave 351 V							
Enave-T 380 VE A21 CF			PD-Enave 351 V							
Enave 381 V A21 CF			PD-Enave 351 V							
Enave-T 381 V A21 CF			PD-Enave 351 V							
Enave 381 VE A21 CF			PD-Enave 351 V							
Enave-T 381 VE A21 CF			PD-Enave 351 V							
Enave 350 V A14			-	-	-	-	-	-	-	
Enave-T 350 V A14			-	-	-	-	-	-	-	
Enave 351 V A14			-	-	PD-Enave 351 V	-	-	-	-	-
Enave-T 351 V A14			-	-	PD-Enave 351 V	-	-	-	-	-

