

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.

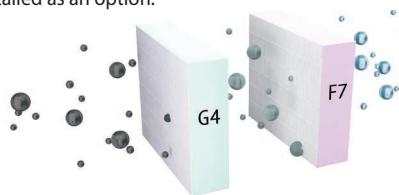
Enave 350 V R – right-handed version.

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.

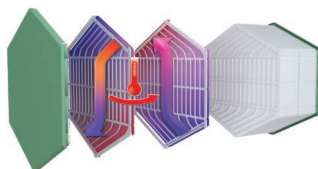


Fans

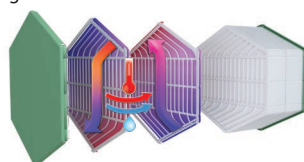
Units' fans are equipped with electronically commutated motors.

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.

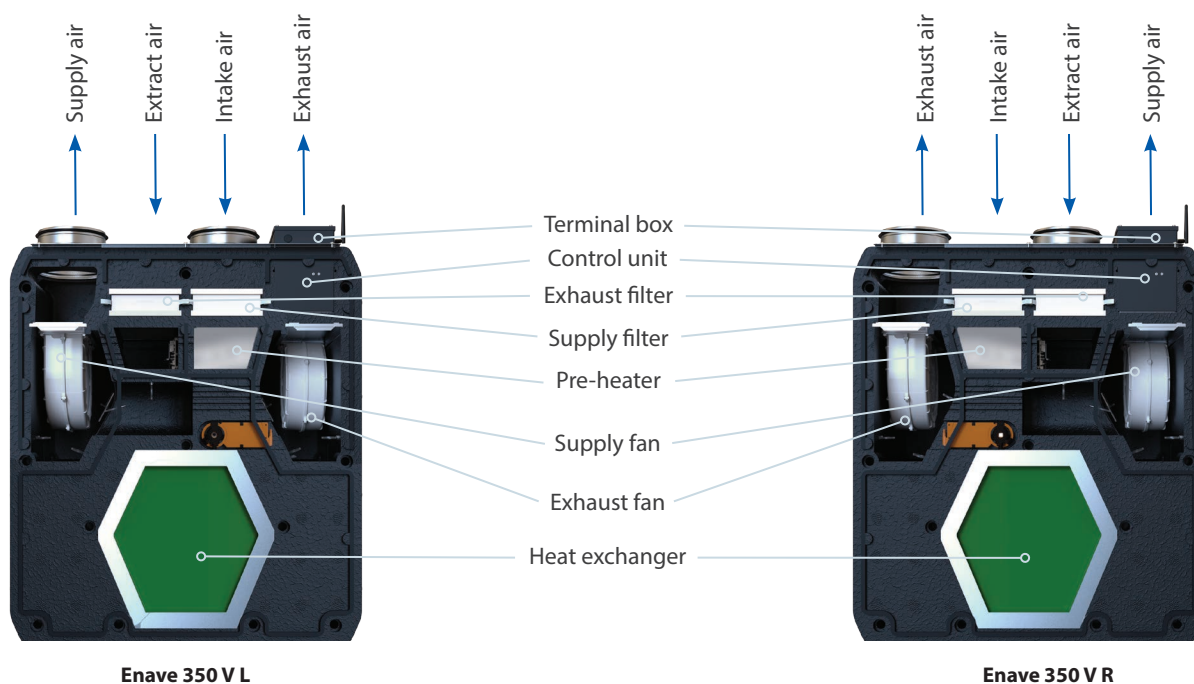
Control and automation

Functions	A21	A14
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	+	-
Preheater connection	+	-
Reheater connection	+	-
Cooler connection	+	-
Fire alarm sensor connection	+	+
Minimum supply air temperature control	+	-

Designation key

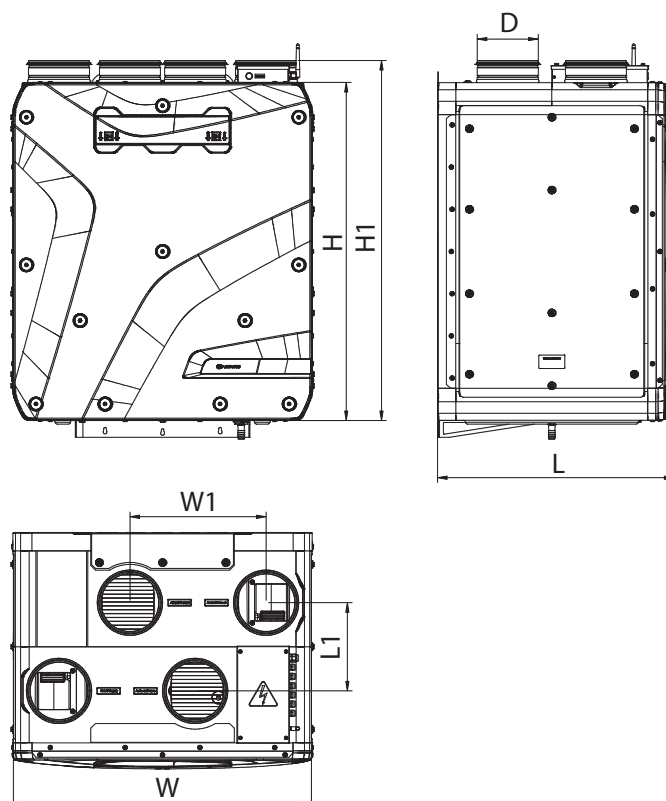
TM	Model	Heat exchanger type	Nominal size	Modification	Casing type	Heater	Control system	Version
VENTS	Enave	— – heat recovery T – energy recovery	Air flow m³/h / 10	0 – standard 1 – flat service hatch suitable for decorative panel installation	V – vertical	— – w/o heater E – integrated pre-heater	A21, A14	L – left R – right

Unit design



Overall dimensions

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

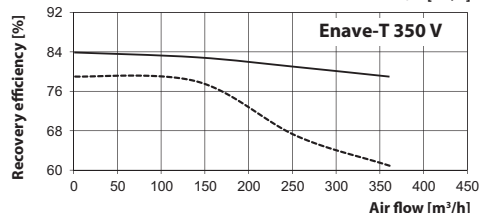
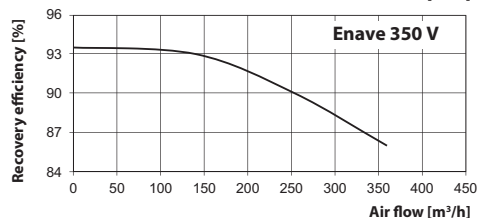
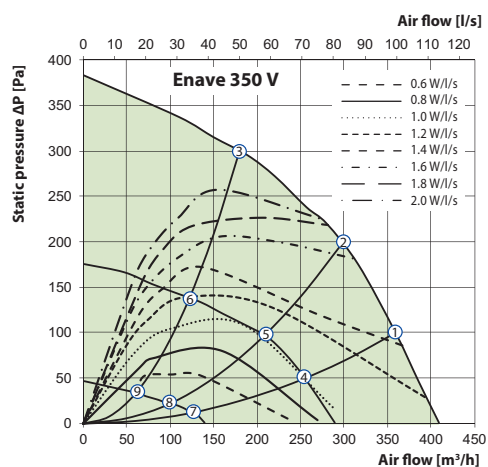


AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	Vents Enave 350 V	Vents Enave-T 350 V	Vents Enave 350 VE	Vents 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 [m³/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	Polystyrene	Enthalpy
SEC class	A+	A	A+	A

VENTS Enave 350 V



Enave(T) 350 V		Octave-frequency band [Hz]										LpA, 3 m	LpA, 1 m
A-weighted sound power level (p.1 on the diagram)		Gen.	63	125	250	500	1000	2000	4000	8000		[dBA]	[dBA]
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		Octave-frequency band [Hz]										LpA, 3 m	LpA, 1 m
A-weighted sound power level (p.4 on the diagram)		Gen.	63	125	250	500	1000	2000	4000	8000		[dBA]	[dBA]
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	

	Filter G4	Filter F7	Decorative panel	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor	Internal CO2 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			-					
Enave-T 351 V A21			PD-Enave 351 V					
Enave 351 VE A21			-					
Enave-T 351 VE A21			-					
Enave 350 V A14			-					
Enave-T 350 V A14			-					
Enave 351 V A14	-							
Enave-T 351 V A14	PD-Enave 351 V							

	External CO ₂ sensor with indication	External CO ₂ sensor	External humidity sensor	Electrical preheater	Electrical reheater	Syphon kit	Silencer	Air damper	Electric actuator					
														
Enave 350 V 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 350 V A21														
Enave 350 VE A21														
Enave-T 350 VE A21														
Enave 351 V A21														
Enave-T 351 V A21														
Enave 351 VE A21														
Enave-T 351 VE A21														
Enave 350 V A14														
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