

## Series VENTS Enave-C P



Heat recovery air handling units in sound- and heat-insulated casings.  
Air flow up to **279 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 apartments.

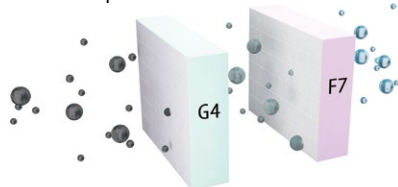
### Casing

The casing is made of expanded polypropylene (EPP) that has high heat- and sound-insulating properties. **Enave-C P** units have adjustable oriental connection of the flanges to provide more flexible installation solutions.



### Filter

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

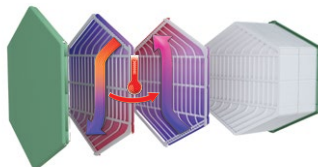


### Fans

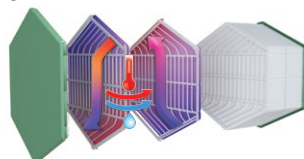
Units' fans are equipped with electronically-commutated motors.

### Heat Exchanger

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



**Enave-CT** units are equipped with an enthalpy heat exchanger.



### Bypass

Units are equipped with a bypass for summer cooling.

### Automation

**Enave-C 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-C P 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-C P** units frost protection is realized by shutting down the supply fan. Optional duct preheater is available for units with A21 control system.

### Mounting

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

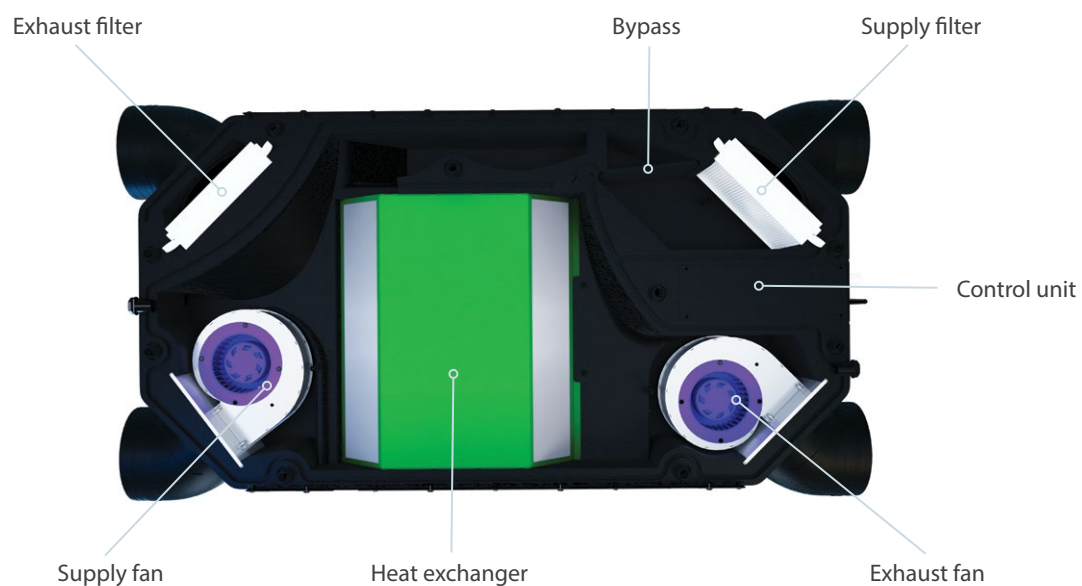
### Control and automation

| Functions                                    | A21                                                                                                       | A14                                                                                        |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Wired remote control pane                    | A22 (option)<br>       | A14<br> |
| Control via a wired remote LCD control panel | A25 (option)<br>       | -                                                                                          |
| Wireless remote control panel                | A22 Wi-Fi (option)<br> | -                                                                                          |
| BMS                                          | ModBus RTU (RS-485)<br>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 <sub>2</sub> 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

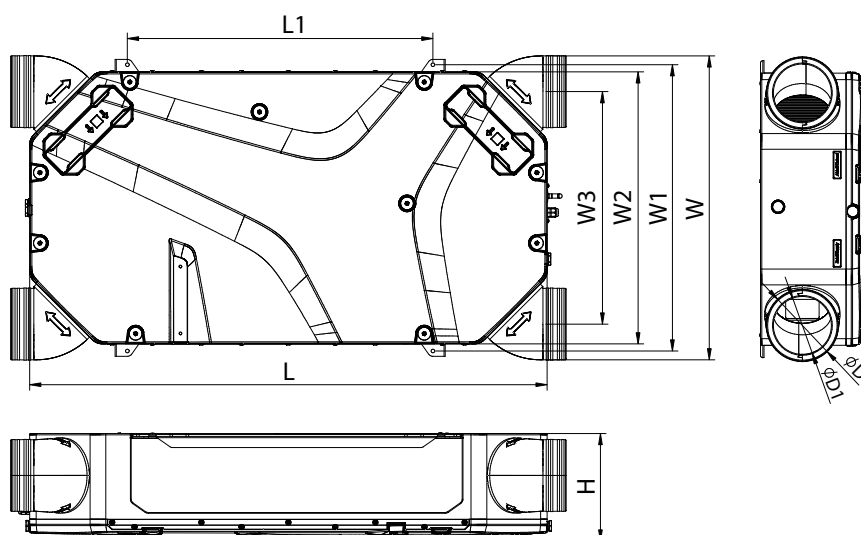
| TM    | Model | Casning modification      | Heat exchanger type                    | Nominal size      | Modification | Casing type   | Controller |
|-------|-------|---------------------------|----------------------------------------|-------------------|--------------|---------------|------------|
| VENTS | Enave | – Standard<br>C – compact | – heat recovery<br>T – energy recovery | Airflow m³/h / 10 | 0 – standard | P – suspended | A21, A14   |

## Unit design



## Overall dimensions

| Model           | Dimensions [mm] |     |      |     |     |     | L1  | ØD  | ØD1 |
|-----------------|-----------------|-----|------|-----|-----|-----|-----|-----|-----|
|                 | H               | W   | L    | W1  | W2  | W3  |     |     |     |
| Vents Enave-C P | 242             | 683 | 1160 | 642 | 610 | 521 | 685 | 160 | 125 |

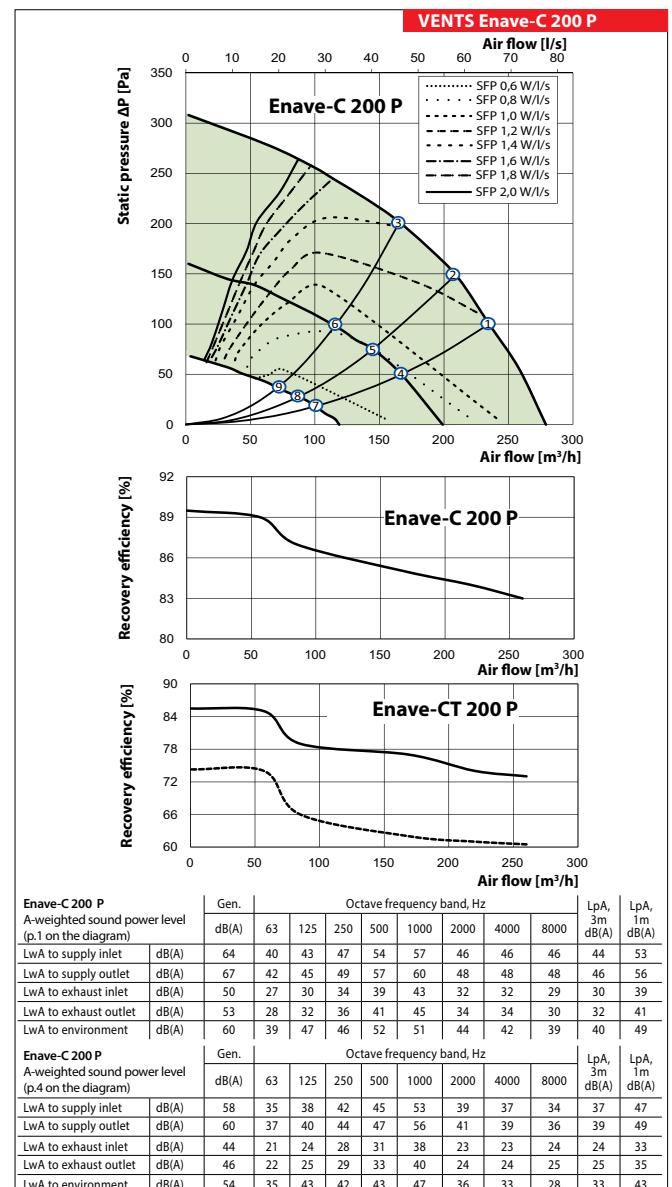
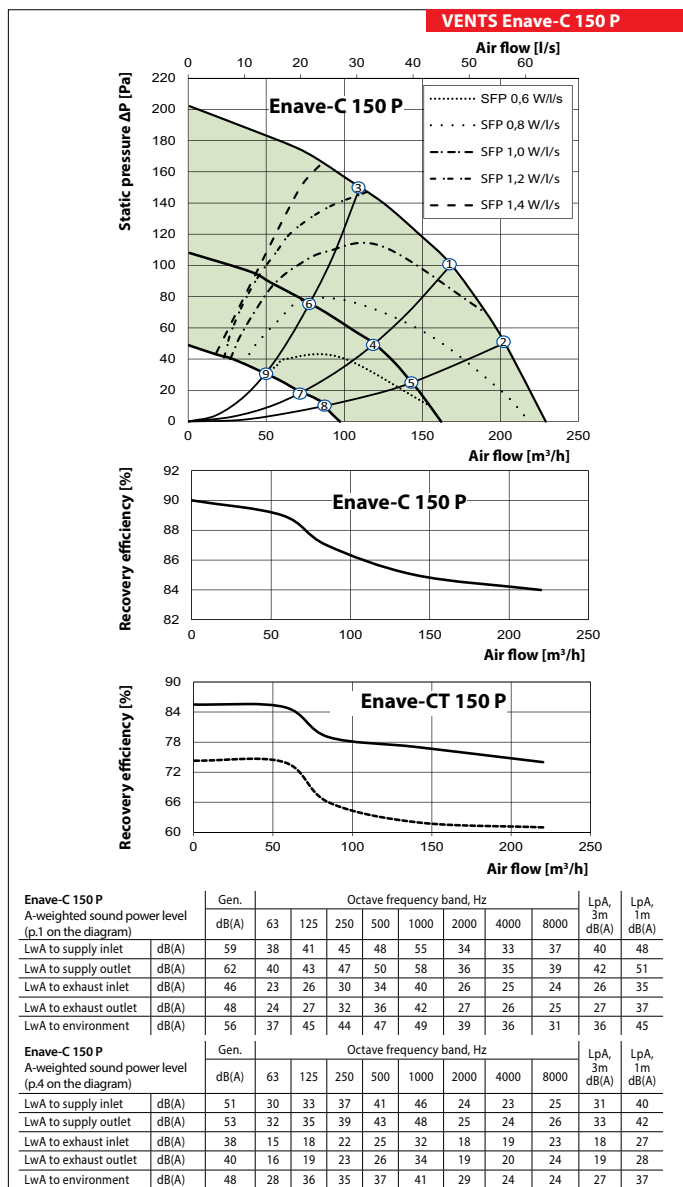


## AIR HANDLING UNITS WITH HEAT RECOVERY

### Technical data

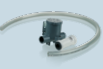
|                                            | Vents Enave-C 150 P |  | Vents Enave-CT 150 P                     | Vents Enave-C 200 P | Vents Enave-CT 200 P |
|--------------------------------------------|---------------------|--|------------------------------------------|---------------------|----------------------|
| Voltage [V / 50-60 Hz]                     |                     |  |                                          | 230                 |                      |
| Max. unit power [W]                        | 72                  |  |                                          | 111                 |                      |
| Max. unit current [A]                      | 0,63                |  |                                          | 0,9                 |                      |
| Max air flow [m³/h]                        | 229                 |  |                                          | 279                 |                      |
| Sound pressure level at 3 m distance [dBA] | 27                  |  | 27                                       | 33                  | 33                   |
| Max. operating temperature [°C]            |                     |  | 45                                       |                     |                      |
| Case material                              |                     |  | EPP                                      |                     |                      |
| Insulation [mm]                            |                     |  | 25                                       |                     |                      |
| Extract filter                             |                     |  | G4 / Coarse > 60%                        |                     |                      |
| Supply filters                             |                     |  | G4 / Coarse > 60% (option F7 / ePM1 60%) |                     |                      |
| Connected air duct diameter [mm]           |                     |  | 125 / 160                                |                     |                      |
| Weight [kg]                                | 18                  |  | 19,5                                     | 18                  | 19,5                 |
| Heat recovery efficiency [%]               | 89                  |  | 85                                       | 89                  | 85                   |
| Heat exchanger type                        |                     |  | Counterflow                              |                     |                      |
| Heat exchanger material                    | Polysterene         |  | Enthalpy                                 | Polysterene         | Enthalpy             |
| SEC class                                  | A+                  |  | A                                        | A+                  | A                    |

\*Sound pressure level at 3 m distance is specified at point 4 [dBA]



### Accessories for air handling units

[illegible]

|                    | External CO <sub>2</sub> sensor with indication                                    | External CO <sub>2</sub> sensor                                                    | External humidity sensor                                                           | Electrical preheater                                                               | Electrical reheater                                                                | Syphon kit                                                                           | Silencer                                                                             | Air damper                                                                           | Electric actuator                                                                    |
|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                    |  |  |  |  |  |  |  |  |  |
| Enave-C 150 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-CT 150 P A21 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
| Enave-C 200 P A21  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
| Enave-CT 200 P A21 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
| Enave-C 150 P A14  | CO2-1                                                                              | CO2-2                                                                              | HR-S                                                                               | -                                                                                  | -                                                                                  | SH-32                                                                                | SR 160                                                                               | KRV 160                                                                              | TF 230                                                                               |
| Enave-CT 150 P A14 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
| Enave-C 200 P A14  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |
| Enave-CT 200 P A14 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                      |                                                                                      |                                                                                      |                                                                                      |