

Series  
**VENTS VUTR 200 V6EK EC**



Air handling units in a heat- and sound-insulated casing. Air flow is up to **270 m<sup>3</sup>/h**. Heat recovery efficiency is up to **92 %**.

**Description**

The VUTR V/VE EC air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extraction.

The units are used in ventilation systems installed in multipurpose premises requiring reasonable energy saving solutions and controllable ventilation systems. The units are equipped with an in-built kitchen hood.

**Modifications**

**VUTR 200 V6K EC** – models without an electric heater.

**VUTR 200 V6EK EC** – models are equipped with an electric heater.

**Casing**

Made of galvanized steel, internally filled with a mineral wool heat- and sound-insulating layer.

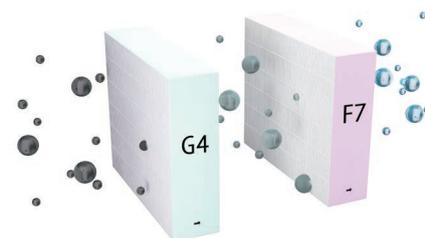
**Kitchen hood**

All units are equipped with an in-built kitchen hood.



**Filter**

Two integrated G4 and F7 filters ensure sufficient intake air purification. Extract air is cleaned by the integrated G4 filter.

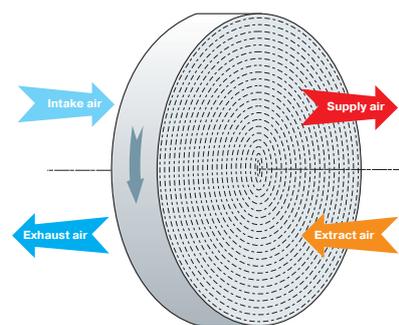


**Motor**

The units are equipped with high-efficient EC motors with an external rotor and a centrifugal impeller.

**Rotary heat exchanger**

Units equipped with a rotary heat exchanger. As compared to plate heat exchangers, the rotary heat exchangers are distinguished with no condensate forming, ability to maintain comfortable air humidity and extremely low freezing danger.



Rotary heat exchanger operation principle

**Heater**

The **VUTR 200 V6EK EC** units are equipped with an electric heater. The heaters are equipped with protecting devices to ensure safe and reliable operation of the unit.

**Automation**

The **VUTR 200 V6K(V6EK) EC 21** units are equipped with an integrated control system. An A21 controller allows integrating the unit into the **Smart Home system** or **BMS (Building Management Systems)**.

To control the unit using a mobile application via Wi-Fi, you need to download the VENTS Home mobile application.



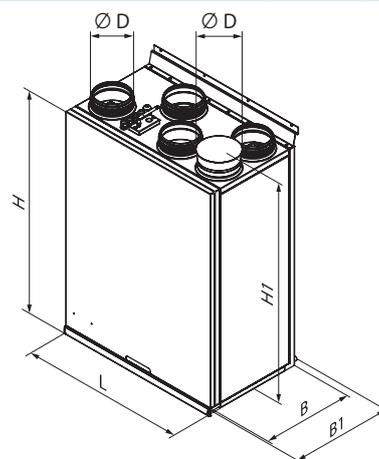
**Mounting**

The air handling unit can be wall-mounted or integrated into a modular kitchen.

It is possible to attach a decorative kitchen door to the front panel of the unit.

**Overall dimensions**

Model	Dimensions [mm]					
	Ø D	B	B1	H	H1	L
VUTR 200 V6K(V6EK) EC	125	348	371	791	865	598



**Designation key**

Series	Heat exchanger type	Rated air flow [m <sup>3</sup> /h]	Mounting type	Casing design	Additional equipment	Motor type	Control panel
<b>VENTS VUT</b>	<b>R:</b> rotary	200	<b>V:</b> vertical	<b>6:</b> casing with a thin kitchen hood	<b>E:</b> with an electric heater <b>K:</b> kitchen hood	<b>EC:</b> synchronous motor with electronic control	A21

**Control and automation**

Functions	A21
Wi-Fi control via mobile application	+
Control via a wired remote control panel	A22 (option) 
Control via a wireless remote control panel	A22 Wi-Fi (option) 
Control via a wired remote LCD control panel	A25 (option) 
BMS	RS-485 WI-FI Ethernet MODBUS (RTU, TCP)
Service Vents Cloud Server	+
Speed selection	+
Filter replacement indication	according to hour meter readings
Alarm indication	full alarm description in the mobile application
Weekly schedule operation	+
Timer	+
Boost mode	+
Fireplace mode	+
Reheater connection	integrated in E models, external reheater cannot be connected
Cooler connection	option
Kitchen hood connection	option
Minimum supply air temperature control	+
Humidity control	option
CO <sub>2</sub> control	option
VOC control	option
Fire alarm sensor connection	option

\*Option. The functionality is available when you purchase the appropriate accessory.

**Accessories**

Model	G4 panel filter	F7 panel filter	LCD control panel	Control panel	Control panel with Wi-Fi	VOC sensor 0-10 V	CO <sub>2</sub> sensor 0-10 V	Humidity sensor 0-10 V	Humidity sensor NO
	VUTR 200 V6K EC A21	SF 284x103x60	SF 284x103x60	A25	A22	A22 Wi-Fi	DPWQ 30600	DPWQ 40200	DPWC 11200
VUTR 200 V6EK EC A21	G4	F7							

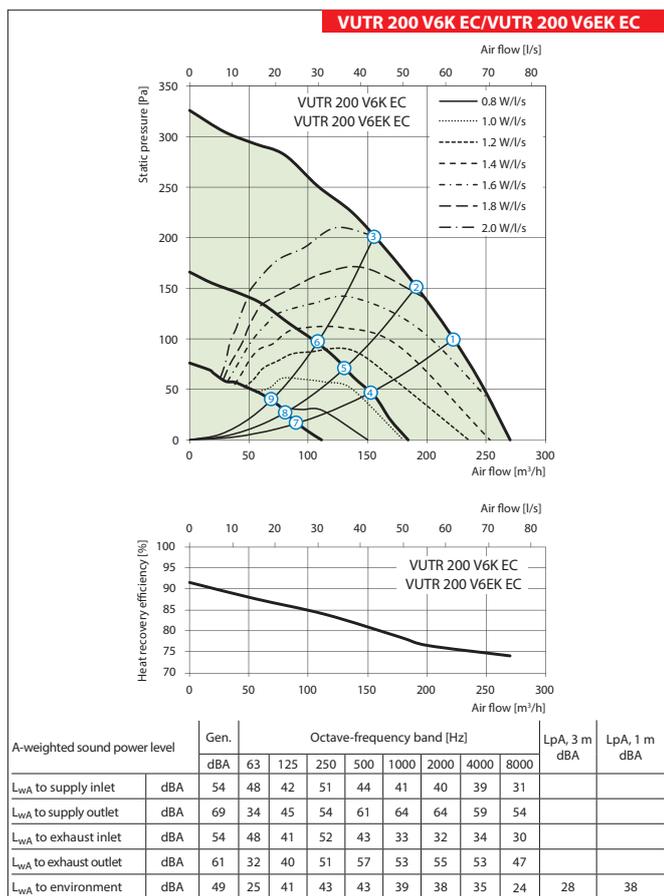
Model	Humidity sensor	External CO <sub>2</sub> sensor with indication	External CO <sub>2</sub> sensor	Silencers		Back valves	Air dampers	Clamps	Electric actuator	
	VUTR 200 V6K EC A21									
VUTR 200 V6EK EC A21	HV-2	CO2-1	CO2-2	SR 125	SRF 125	KOM 125	KRV 125	C 125	LF230	TF230

## HEAT RECOVERY AIR HANDLING UNITS

### Technical data

		VUTR 200 V6K EC	VUTR 200 V6EK EC
Unit voltage [V/50 (60) Hz]		1~230	
Max. unit power without electric heater [W]		118	
Max. power of electric heater [W]		-	700
Max. unit power [W]		118	818
Max. unit current without electric heater [A]		1.0	
Max. unit current of electric heater [A]		-	3.0
Max. unit current [A]		1.0	4.0
Maximum air flow [m <sup>3</sup> /h]		270	
RPM [min <sup>-1</sup> ]		1800	
Sound pressure level at 3 m distance [dBA]		28	
Transported air temperature [°C]		-25...+40	
Casing material		painted steel	
Insulation		20 mm mineral wool	
Filter	Extract	G4	
	Supply	G4, F7	
Connected air duct diameter [mm]		125	
Weight [kg]		47	48
Heat recovery efficiency		from 75 up to 92	
Heat exchanger type*		rotary	
Heat exchanger material		aluminium	
SEC class		A	

\*Heat recovery efficiency is specified in compliance with EN 13141-7



Point	Total unit power [W]	Sound pressure level at 3 m (1 m) distance [dBA]
	VUTR 200 V6K EC VUTR 200 V6EK EC	VUTR 200 V6K EC VUTR 200 V6EK EC
1	103	28(38)
2	98	28(38)
3	85	29(39)
4	43	21(31)
5	40	21(31)
6	37	20(30)
7	18	19(29)
8	17	19(29)
9	16	17(27)

Calculation of air temperature downstream of the heat exchanger:

$$t = t_{\text{outd}} + k_{\text{hr}} * (t_{\text{extr}} - t_{\text{outd}}) / 100,$$

where

$t_{\text{outd}}$  : outdoor air temperature [°C]

$t_{\text{extr}}$  : extract air temperature [°C]

$k_{\text{hr}}$  : heat exchanger efficiency (according to the diagram) [%]

### Application options

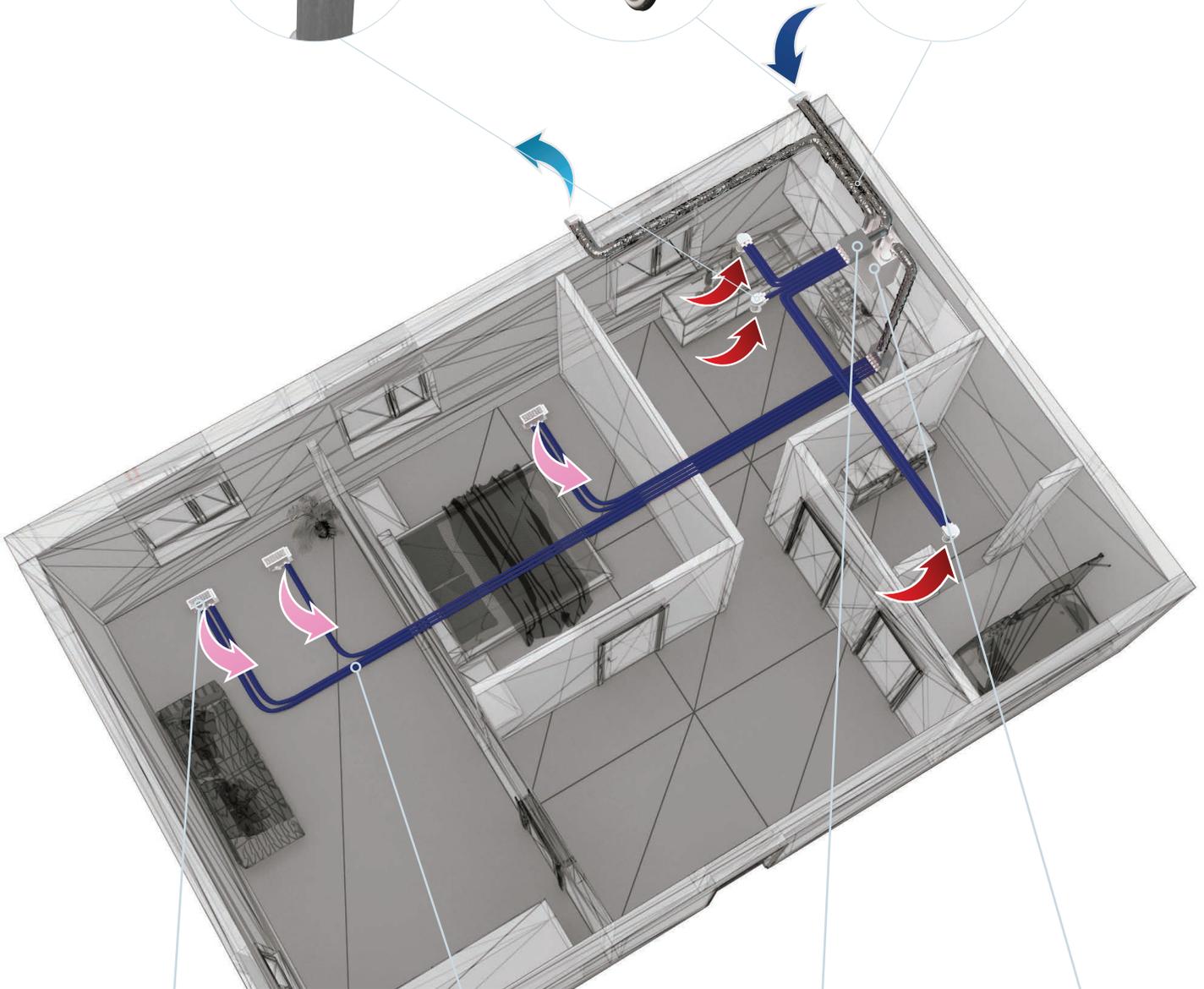
Ceiling connector with a disk valve



Ventilation hood



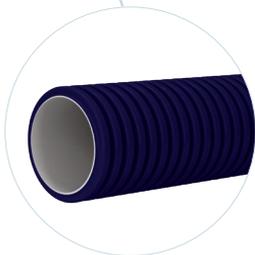
Isovent 150 insulated air duct



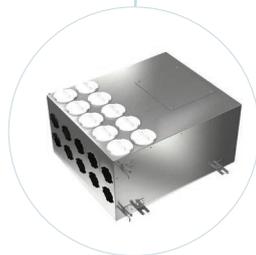
Floor connector with a grille



FlexiVent air duct



Manifold



Air handling unit

