

Series
VENTS VUTR 351 P EC



Air handling units in heat- and sound-insulated casing.
Air flow up to **497 m³/h**.
Heat recovery efficiency up to 89 %.

Description

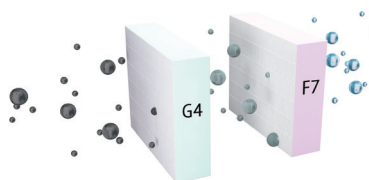
The **VUTR P EC** air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extraction. Used in ventilation that require an economical solution and a controlled ventilation system.

Casing

Made of polymer-coated steel, internally filled with a mineral wool heat- and sound-insulating layer.
VUTR 351 P EC L – left-handed version.
VUTR 351 P EC R – right-handed version.

Filter

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

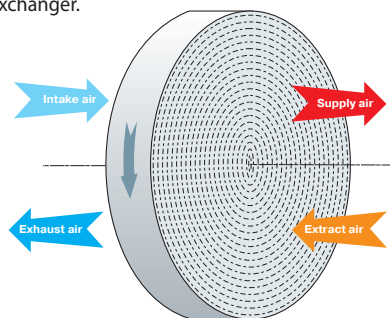


Fans

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

Rotary heat exchanger

The units are equipped with a rotary heat exchanger. **VUTR P** units are equipped with condensing rotary heat exchanger. **VUER P** units are equipped with sorption rotary heat exchanger.



Rotary heat exchanger operation principle

Heater

The units **VUTR PE** are equipped with an electric heater.

Automation

The units are equipped with an integrated control 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.



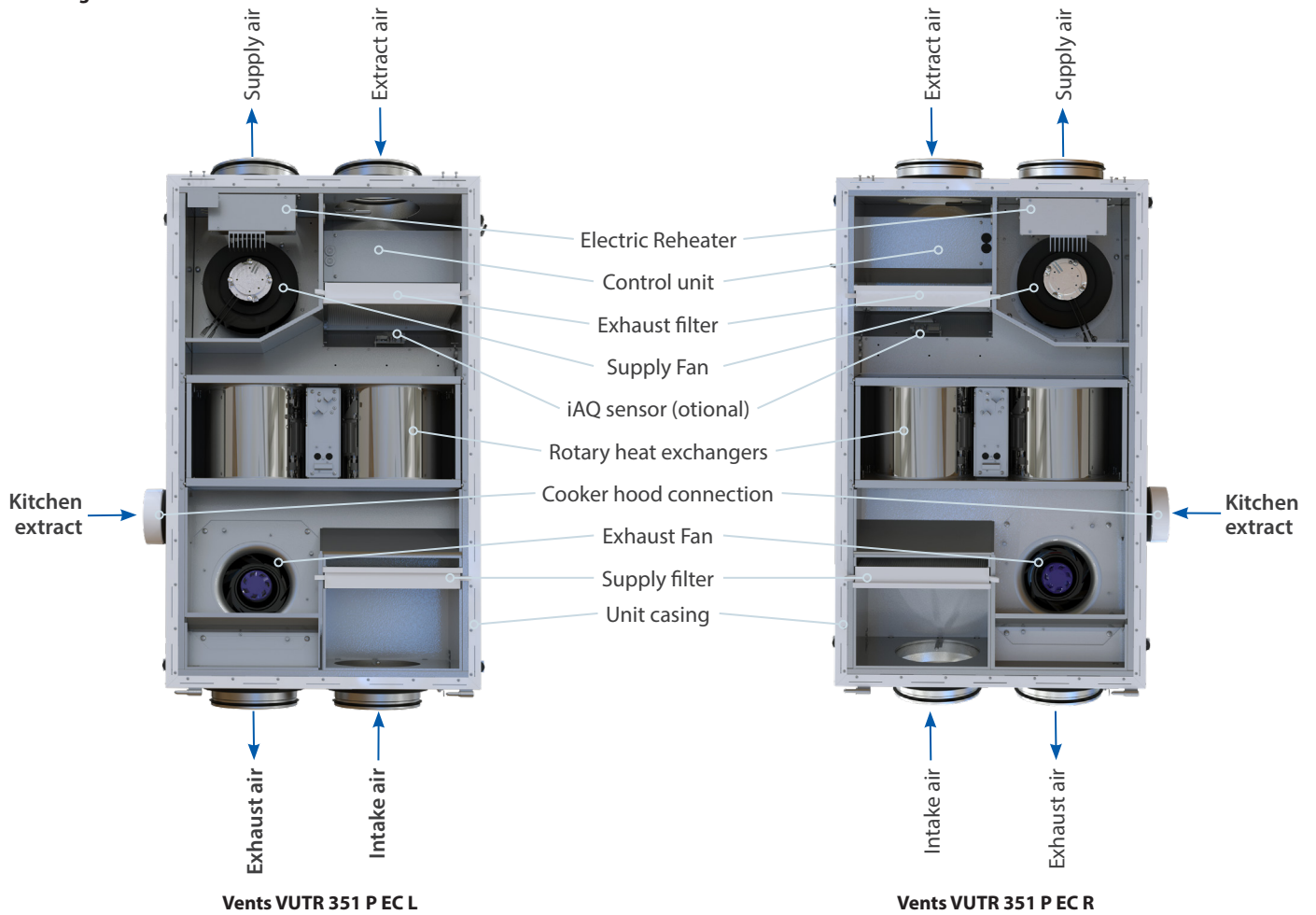
Control and automation

Functions	A21
	A22 (option)
Wired remote control panel	
	A25 (option)
Control via a wired remote LCD control panel	
	A22 Wi-Fi (option)
Wireless remote control panel	
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
Week-scheduled operation	+
Filter replacement indication	Filter timer
Alarm indication	+
Speed selection	+
Timer	+
RH% sensor	Option
CO ₂ sensor	Option
VOC sensor	Option
PM2.5 sensor	Option
Boost mode	+
Fireplace mode	+
Cooler connection	+
Fire alarm sensor connection	+
Minimum supply air temperature control	+

Designation key

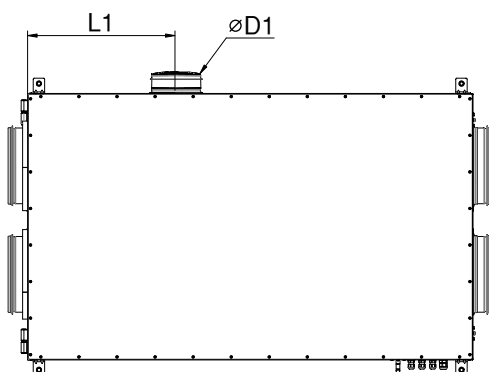
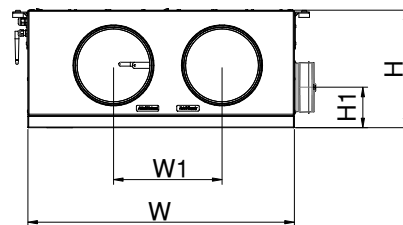
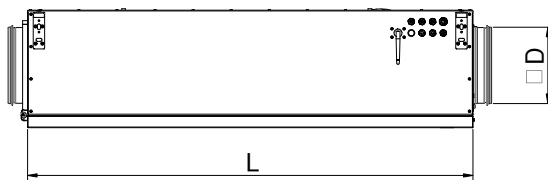
TM	Series	Size	Modification	Mounting	Heater	Motor	Service Side	Control panel
VENTS	VUTR : unit with condensation rotary heat exchanger VUER : unit with sorption rotary heat exchanger	m ³ /h/10	0, 1, 2...	P : suspended	–: w/o heater E : electric re-heater	EC : EC-motor	R : right L : left	A21

Unit design



Overall dimensions

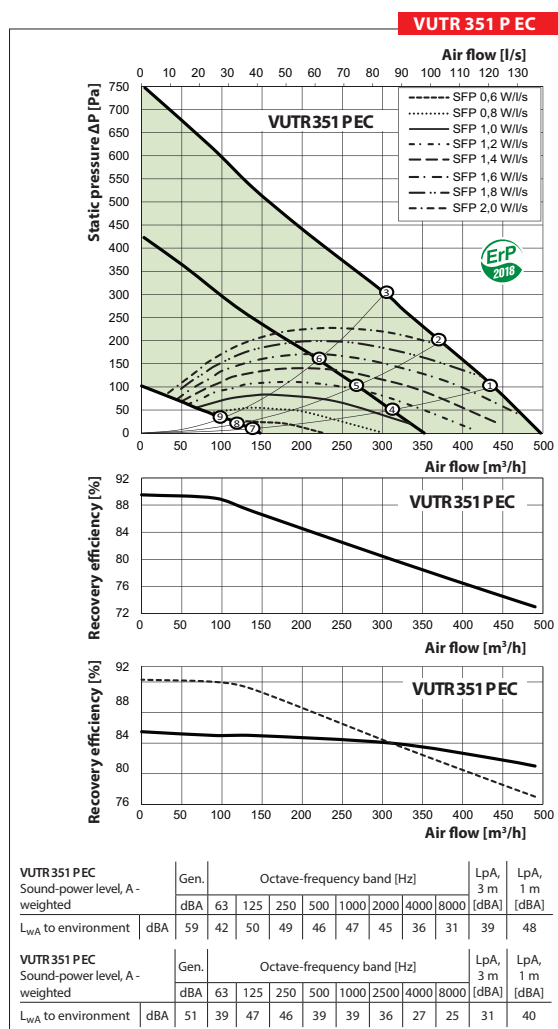
Model	Dimensions [mm]								
	H	W	L	H1	W1	L1	D	D1	
Vents VUTR 351 P EC	308	700	1170	106	285	387	200	125	










AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	VUTR 351 P EC	VUER 351 P EC	VUTR 351 PE EC	VUER 351 PE EC
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	211	211	211	211
Integrated electric heater power [W]	-	-	1200	1200
Max. unit power [W]	211	211	1411	1411
Max. unit current without electric heater [A]	1,54	1,54	1,54	1,54
Integrated electric heater current [A]	-	-	5,32	5,32
Max. unit current [A]	1,54	1,54	6,86	6,86
Max air flow [m ³ /h]	497	497	497	497
Sound pressure level at 3 m distance [dBA]	39	39	39	39
Max. operating temperature [°C]	- 25...+40	- 25...+40	- 25...+40	- 25...+40
Case material	painted steel	painted steel	painted steel	painted steel
Insulation	40	40	40	40
Extract filter	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%	G4 / Coarse > 60%
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)	G4 / Coarse > 60% (option F7 / ePM1 60%)
Connected air duct diameter [mm]	200	200	200	200
Weight [kg]	78	79	81	82
Heat recovery efficiency [%]	89	85	89	85
Heat exchanger type	condensing	sorption	condensing	sorption
SEC class	A	A	A	A



Accessories for air handling units

Type	Filter G4	Supply filter F7	Control panel	Control panel	WiFi Control panel	Internal humidity sensor	Internal CO ₂ sensor
							
VUTR 351 P EC A21	SF 302 x 256 x 48 Coarse 90% G4	SF 302 x 256 x 48 ePM1 60% F7	A25	A22	A22 Wi-Fi	HV2	CO2-3
VUTR 351 PE EC A21							

Type	External CO ₂ sensor with indication	External humidity sensor	Silencer	Air damper	Electric actuator
					
VUTR 351 P EC A21	CO2-1	HR-S	SR 200	KRV 200	TF 230
VUTR 351 PE EC A21					