

Series  
**VENTS VUTR P EC**



Air handling units in heat- and sound-insulated casing.  
Air flow up to **798 m<sup>3</sup>/h**.  
Heat recovery efficiency up to 88 %.

**Description**

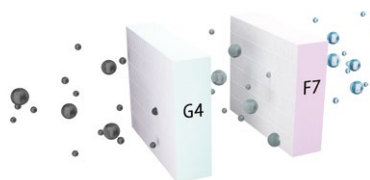
The **VUTR P EC** air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extraction. Used in ventilation that require an economical solution and a controlled ventilation system.

**Casing**

Made of polymer-coated steel, internally filled with a mineral wool heat- and sound-insulating layer.  
**VUTR P ECL** – left-handed version.  
**VUTR P ECR** – 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.

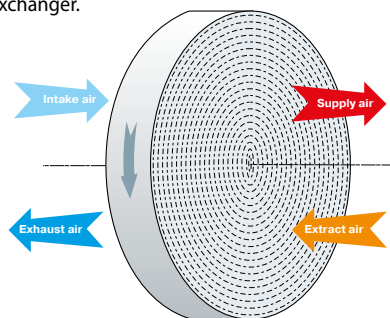


**Fans**

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.



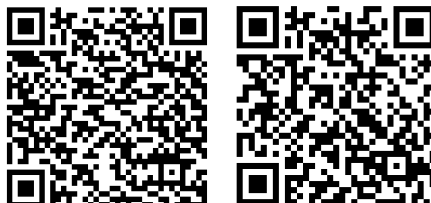
Rotary heat exchanger operation principle

**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.



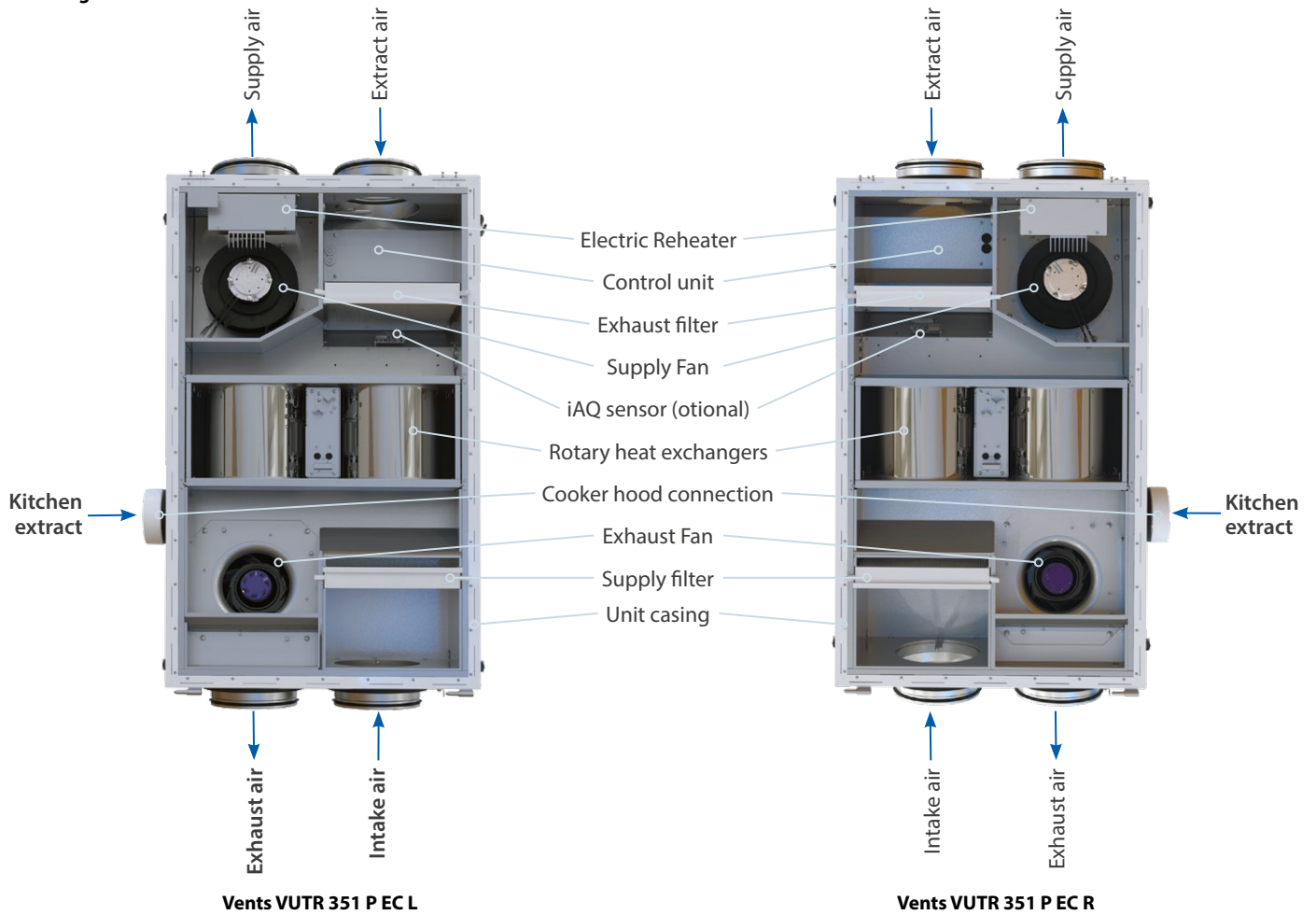
**Control and automation**

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 <sub>2</sub> 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**

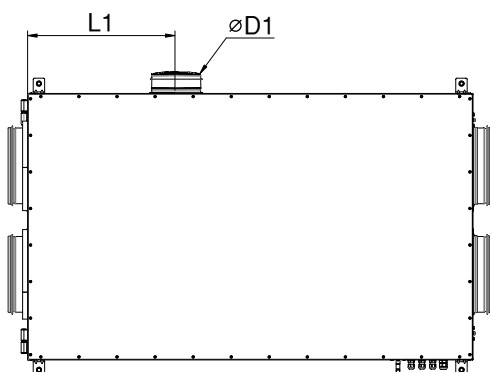
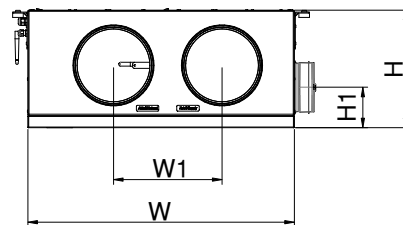
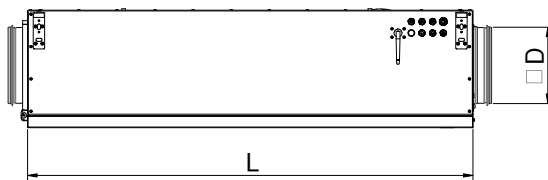
TM	Series	Size	Modification	Mounting	Heater	Motor	Service Side	Control panel
<b>VENTS</b>	<b>VUTR</b> : unit with condensation rotary heat exchanger <b>VUER</b> : unit with sorption rotary heat exchanger	m <sup>3</sup> /h/10	0, 1, 2...	<b>P</b> : suspended	–: w/o heater <b>E</b> : electric re-heater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

**Unit design**

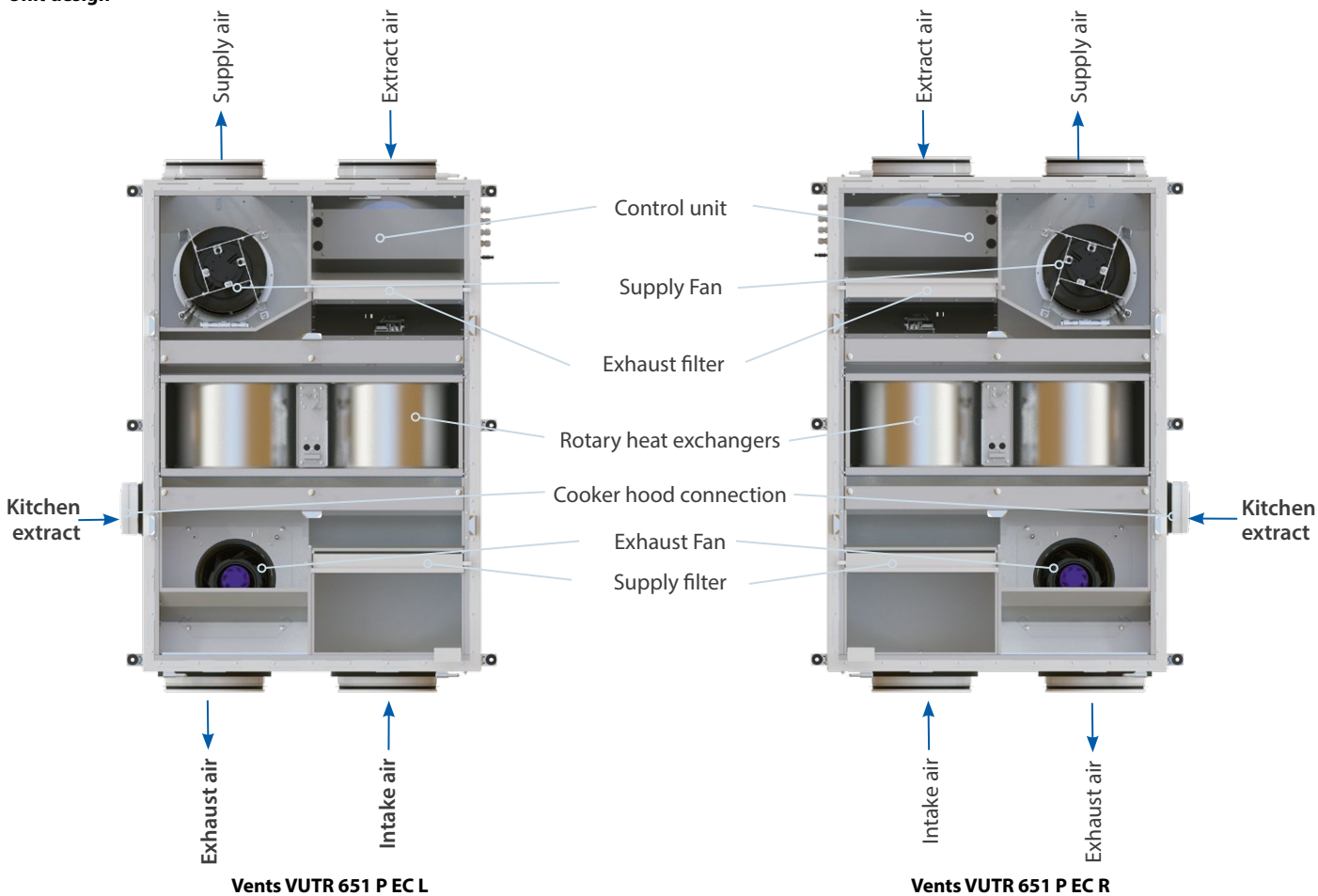


**Overall dimensions**

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

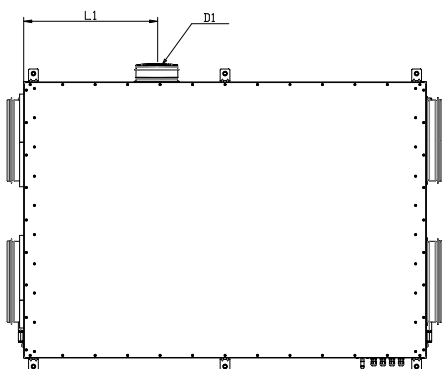
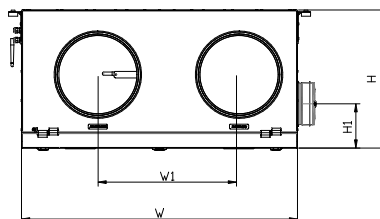
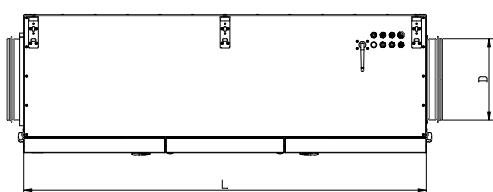


Unit design



Overall dimensions

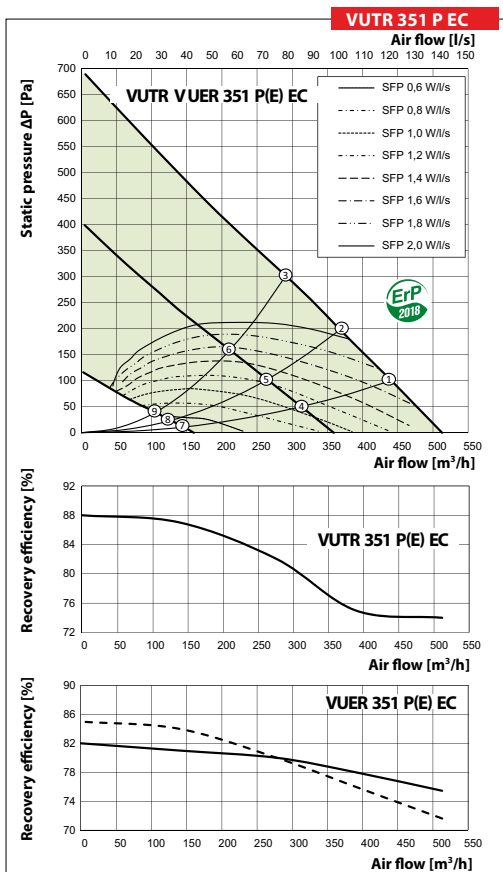
Model	Dimensions [mm]								
	H	W	L	H1	W1	L1	D	D1	
Vents VUTR 651 P EC	425	850	850	136	435	410	250	125	



**Technical data**

	VUTR 351 P EC A21	VUER 351 P EC A21	VUTR 351 PE EC A21	VUER 351 PE EC A21
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	247	247	247	247
Integrated electric heater power [W]	-	-	1200	1200
Max. unit power [W]	247	247	1447	1447
Max. unit current without electric heater [A]	1,62	1,62	1,62	1,62
Integrated electric heater current [A]	-	-	5,32	5,32
Max. unit current [A]	1,62	1,62	6,94	6,94
Max air flow [m <sup>3</sup> /h]	513	513	513	513
Sound pressure level at 3 m distance [dBA]	31	31	31	31
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]	72	72	72	72
Heat recovery efficiency [%]	88	82	88	82
Heat exchanger type	condensing	sorption	condensing	sorption
SEC class	A	A	A	A

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



VUTR 351 P EC Sound-power level, A - weighted (p.1 on the diagram)	General dB(A)	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	59	42	45	48	49	42	36	28	24	40	48
LwA to supply outlet	62	44	47	51	52	44	38	29	25	42	51
LwA to exhaust inlet	62	44	47	51	52	44	38	28	24	42	51
LwA to exhaust outlet	59	42	45	48	49	42	36	27	23	40	48
LwA to environment	59	42	50	49	46	47	45	36	31	39	48

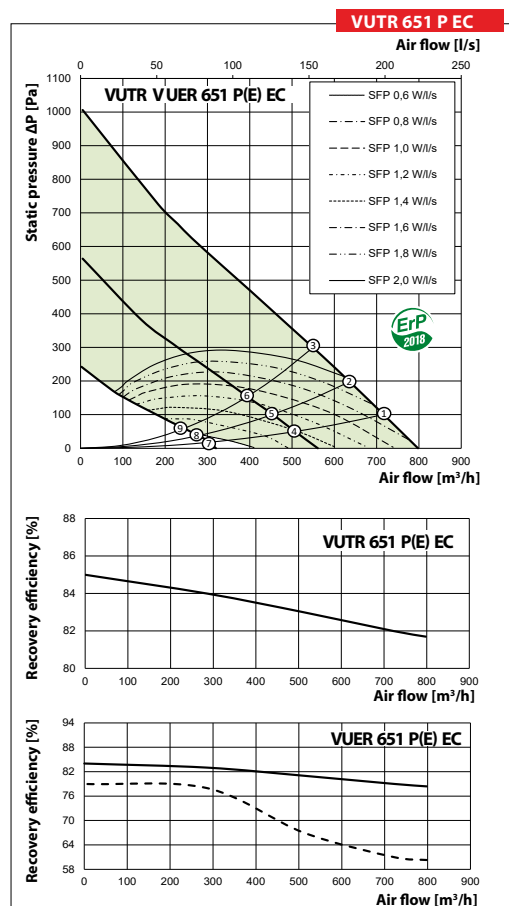
VUTR 351 P EC Sound-power level, A - weighted (p.4 on the diagram)	General dB(A)	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	49	33	36	40	38	31	26	21	23	29	39
LwA to supply outlet	51	35	38	42	40	33	27	22	24	30	40
LwA to exhaust inlet	50	35	38	42	40	33	25	21	23	30	39
LwA to exhaust outlet	53	37	40	44	42	35	26	22	24	32	41
LwA to environment	51	39	47	46	39	39	36	27	25	31	40

# AIR HANDLING UNITS WITH HEAT RECOVERY

## Technical data

	VUTR 651 P EC A21	VUER 651 P EC A21	VUTR 651 PE EC A21	VUER 351 PE EC A21
Voltage [V / 50-60 Hz]	230	230	230	230
Max. unit power without electric heater [W]	377	377	377	377
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	377	377	1777	1777
Max. unit current without electric heater [A]	2,58	2,58	2,58	2,58
Integrated electric heater current [A]	-	-	6,21	6,21
Max. unit current [A]	2,58	2,58	8,79	8,79
Max air flow [m <sup>3</sup> /h]	798	798	798	798
Sound pressure level at 3 m distance [dBA]	31	31	31	31
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]	250	250	250	250
Weight [kg]	103	103	104	104
Heat recovery efficiency [%]	85	84	85	84
Heat exchanger type	condensing	sorption	condensing	sorption
SEC class	A	A	A	A








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




VUTR 651 P EC Sound-power level, A - weighted (p.1 on the diagram)	General dB(A)	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	67	45	48	51	57	57	50	48	43	47	56
LwA to supply outlet	71	47	50	54	60	60	53	51	45	51	60
LwA to exhaust inlet	63	44	47	51	50	46	43	36	28	43	52
LwA to exhaust outlet	60	42	45	48	48	44	41	34	27	40	49
LwA to environment	61	38	46	45	51	50	50	43	38	41	50

VUTR 651 P EC Sound-power level, A - weighted (p.4 on the diagram)	General dB(A)	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	58	42	45	48	48	48	41	35	28	38	47
LwA to supply outlet	60	44	47	51	50	50	43	37	29	40	49
LwA to exhaust inlet	54	44	47	51	41	36	32	23	23	34	43
LwA to exhaust outlet	57	46	49	54	43	38	34	24	24	37	46
LwA to environment	51	38	46	45	40	39	40	28	25	31	40

**Accessories for air handling units**

Type	Filter G4	Supply filter F7	Control panel	Control panel	WiFi Control panel	Internal humidity sensor	Internal CO <sub>2</sub> sensor
							
VUTR 351 P EC A21	SF 302x256x48 Coarse 90% G4	SF 302x256x48 ePM1 60% F7	A25	A22	A22 Wi-Fi	HV-2	CO2-3
VUTR 351 PE EC A21							
VUTR 651 P EC A21							
VUTR 651 PE EC A21							

Type	External CO <sub>2</sub> 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					
VUTR 651 P EC A21			SR 250	KRV 250	
VUTR 651 PE EC A21					