

Series  
**VENTS VUTR V EC**



Air handling units in heat- and sound-insulated casing.  
Air flow up to **747 m<sup>3</sup>/h**.  
Heat recovery efficiency up to 89 %.

**Description**

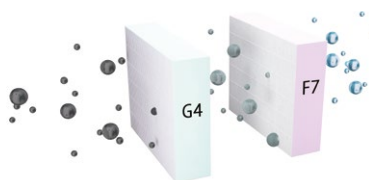
The **VUTR VE EC** air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extraction. Used in ventilation that require an economical solution and a controlled ventilation system.

**Casing**

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

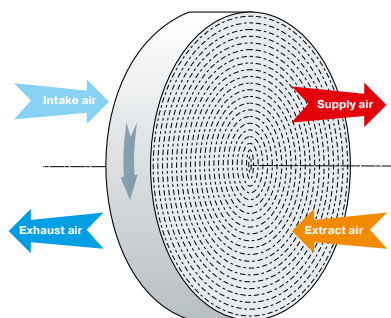


**Fans**

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 V** units are equipped with condensing rotary heat exchanger. **VUER V** units are equipped with sorption rotary heat exchanger.



Rotary heat exchanger operation principle

**Heater**

The units **VUTR VE** 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.



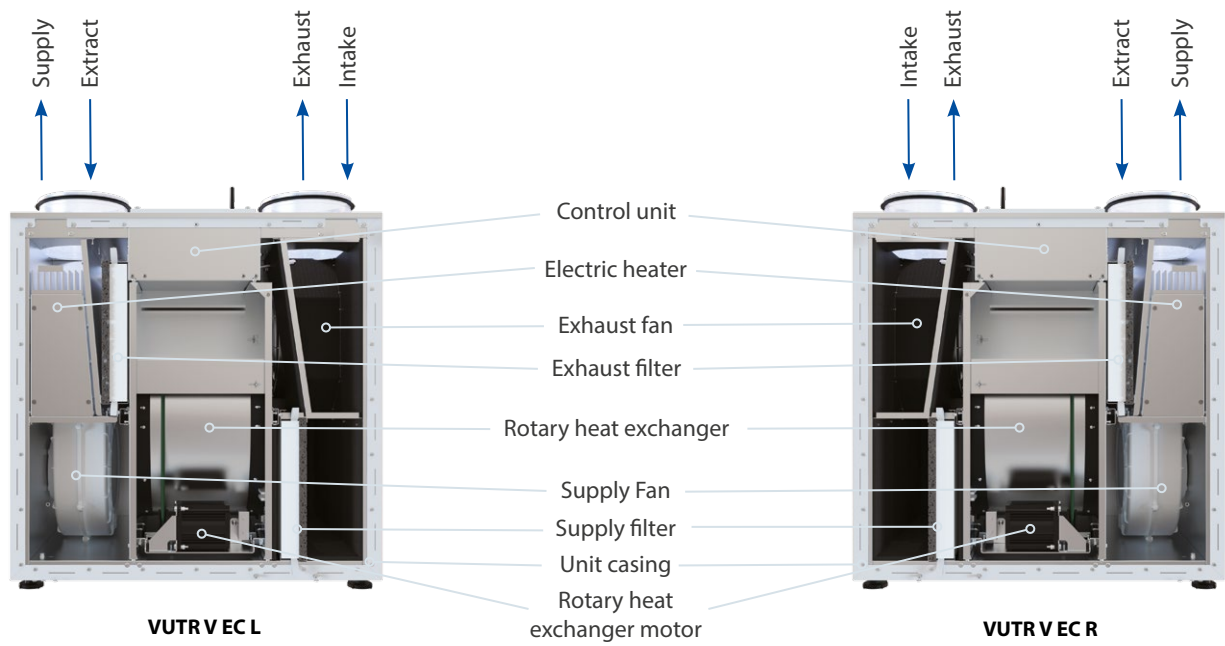
**Control and automation**

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**

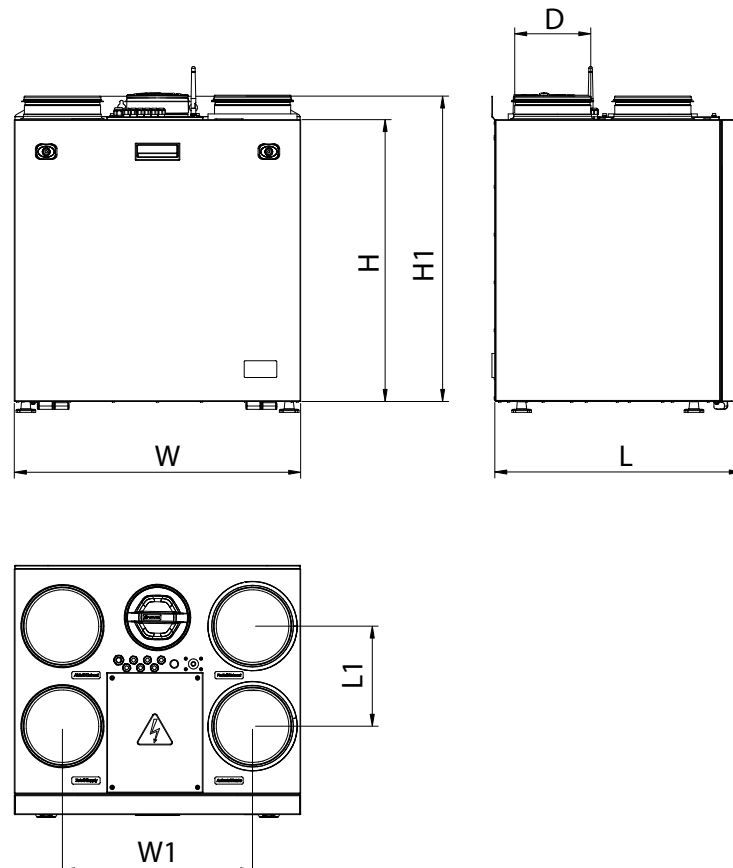
TM	Series	Size [m <sup>3</sup> /h/10]	Modification	Mounting	Heater	Motor	Service Side	Control panel
<b>VENTS</b>	<b>VUTR</b> : unit with condensation rotary heat exchanger <b>VUER</b> : unit with sorption rotary heat exchanger	28,40,60	0, 1, 2...	<b>V</b> : vertical	<b>_</b> : w/o heater <b>E</b> : electric re-heater	<b>EC</b> : EC-motor	<b>R</b> : right <b>L</b> : left	A21

**Unit design**

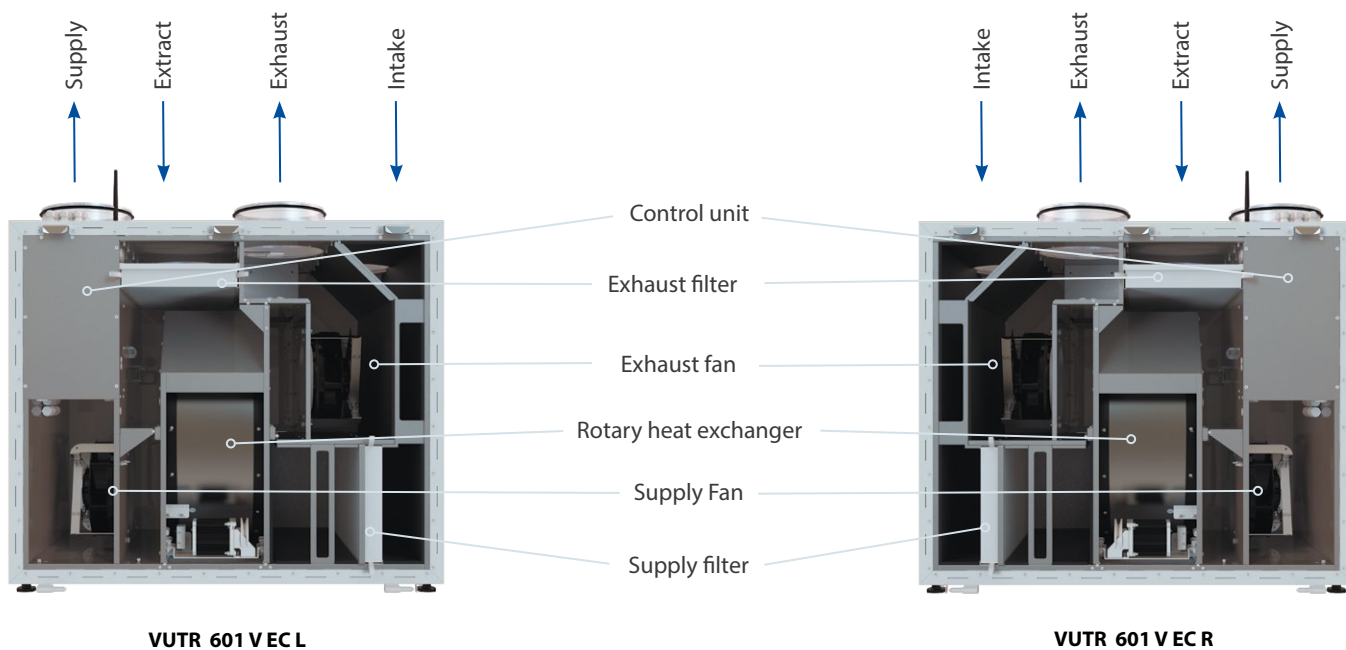


**Overall dimensions**

Model	Dimensions [mm]						
	H	W	L	H1	W1	L1	D
Vents VUTRVE	588	598	515	638	397	209	160



Unit design

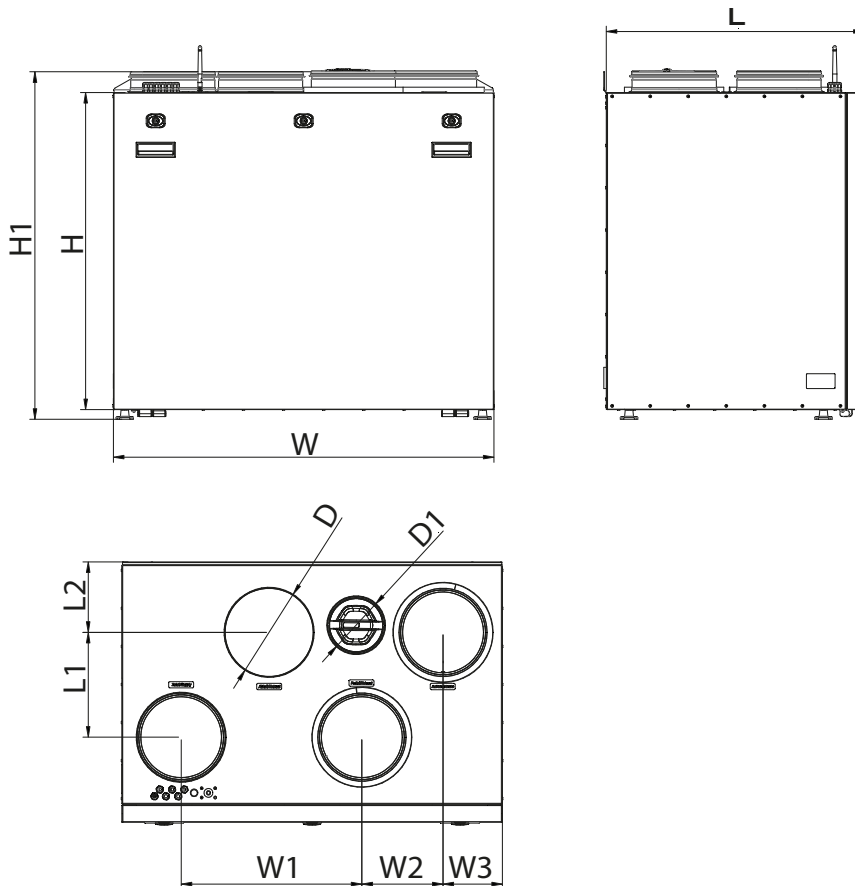


VUTR 601 V EC L

VUTR 601 V EC R

Overall dimensions

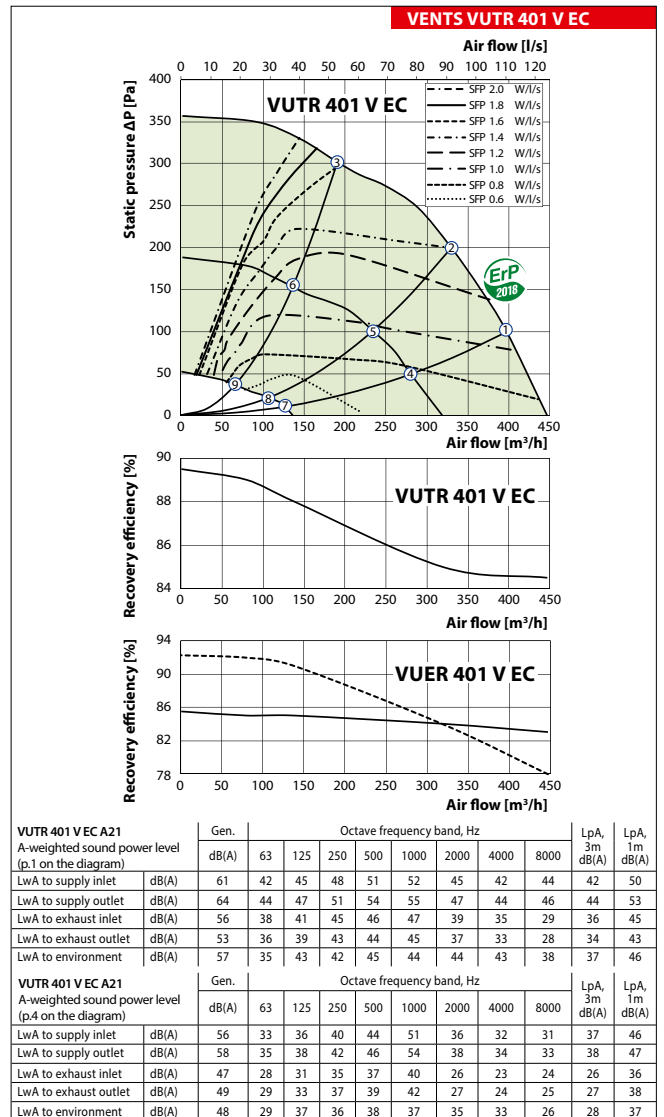
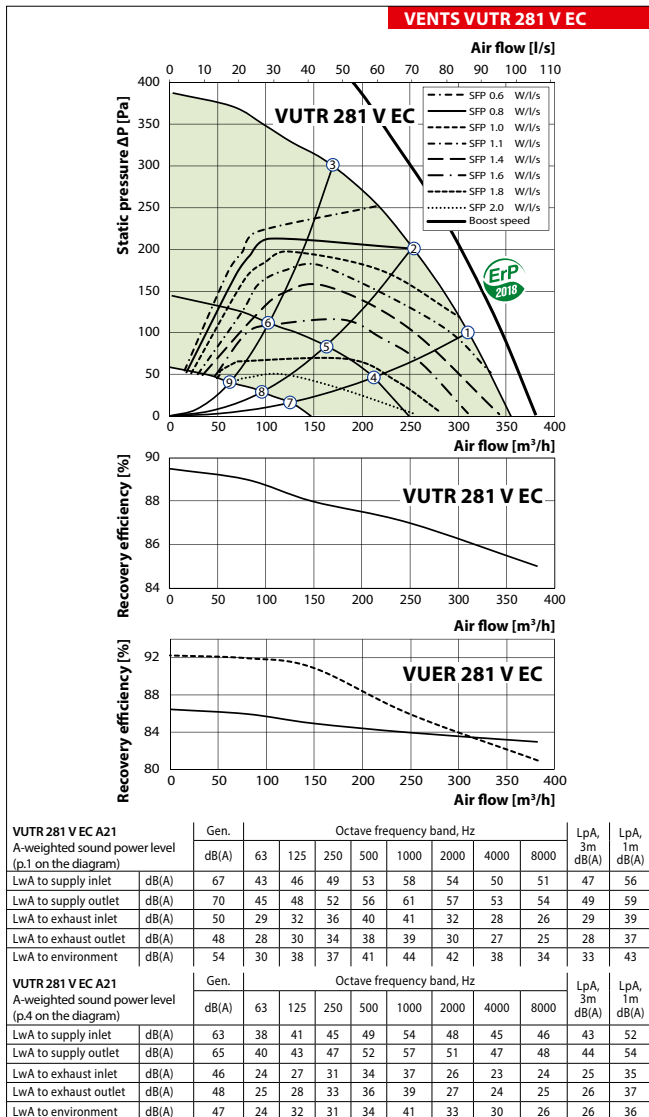
Model	Dimensions [mm]										
	H	W	L	H1	W1	W2	W3	L1	L2	D	D1
Vents VUTR 601 V EC	750	900	609	828	427	192	140	248	167	200	125



**Technical data**

Model	VUTR 281 V EC A21	VUER 281 V EC A21	VUTR 281 VE EC A21	VUER 281 VE EC A21	VUTR 401 V EC A21	VUER 401 V EC A21	VUTR 401 VE EC A21	VUER 401 VE EC A21
Voltage [V / 50-60 Hz]	230							
Max. unit power without electric heater [W]	179				257			
Integrated electric heater power [W]	-	-	1200	1200	-	-	1200	1200
Max. unit power [W]	179	179	1379	1379	257	257	1457	1457
Max. unit current without electric heater [A]	1,34	1,34	1,34	1,34	1,76	1,76	1,76	1,76
Integrated electric heater current [A]	-	-	5,32	5,32	-	-	5,32	5,32
Max. unit current [A]	1,34	1,34	6,66	6,66	1,76	1,76	7,08	7,08
Max air flow [m <sup>3</sup> /h]	382	382	382	382	447	447	447	447
Sound pressure level at 3 m distance [dBA]	26	26	26	26	28	28	28	28
Max. operating temperature [°C]	- 25...+40							
Case material	painted steel							
Insulation	40							
Extract filter	G4 / Coarse > 60%							
Supply filters	G4 / Coarse > 60% (option F7 / ePM1 60%)							
Connected air duct diameter [mm]	160				160			
Weight [kg]	57				58			
Heat recovery efficiency [%]	89	86	89	86	89	85	89	85
Heat exchanger type	condensing	sorption	condensing	sorption	condensing	sorption	condensing	sorption
SEC class	A+	A+	A+	A+	A+	A	A+	A

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

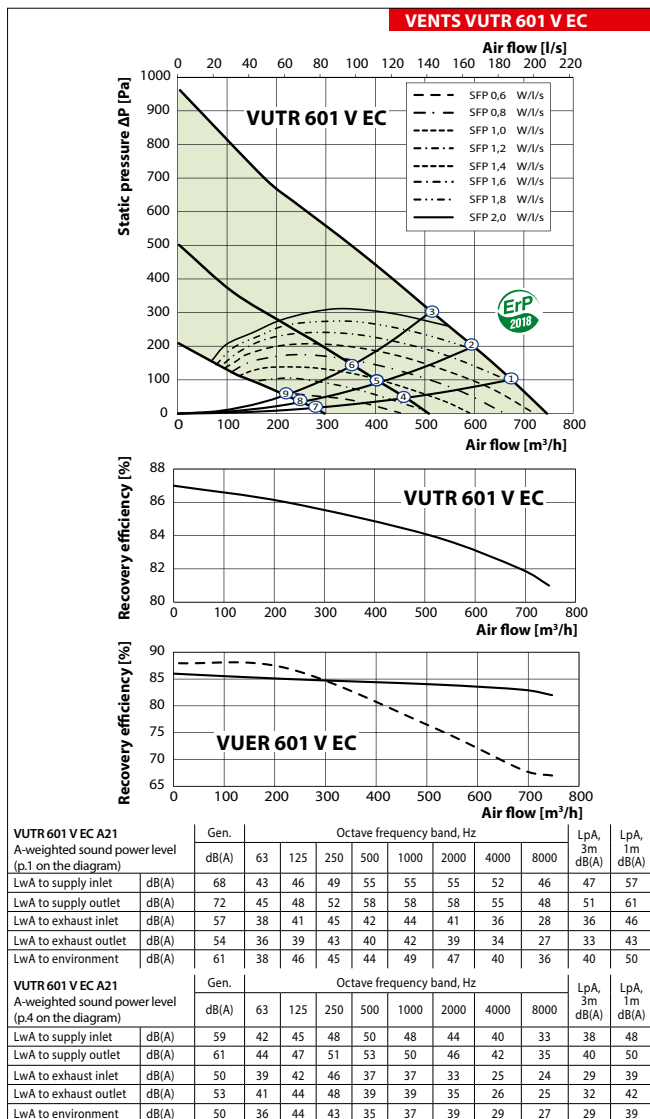


# AIR HANDLING UNITS WITH HEAT RECOVERY

## Technical data

Model	VUTR 601 V EC L / R A21	VUER 601 V EC L / R A21	VUTR 601 VE EC L / R A21	VUER 601 VE EC L / R A21
Voltage [V / 50-60 Hz]			230	
Max. unit power without electric heater [W]			336	
Integrated electric heater power [W]	-	-	1400	1400
Max. unit power [W]	336	336	1736	1736
Max. unit current without electric heater [A]	2,3	2,3	2,3	2,3
Integrated electric heater current [A]	-	-	6,21	6,21
Max. unit current [A]	2,3	2,3	8,51	8,51
Max air flow [m <sup>3</sup> /h]			747	
Sound pressure level at 3 m distance [dBA]			29	
Max. operating temperature [°C]			- 25...+40	
Case material			painte steel	
Insulation			40	
Extract filter			G4 / Coarse > 60%	
Supply filters			G4 / Coarse > 60% (option F7 / ePM1 60%)	
Connected air duct diameter [mm]			200	
Weight [kg]			90	
Heat recovery efficiency [%]	87	86	87	86
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]



**Accessories for air handling units**

	Filter G4	Supply filter F7	Control panel	Control panel	WiFi Control panel	Internal humidity sensor	Internal CO <sub>2</sub> sensor
VUTR 281 V EC A21	SF 428 x 220 x 40 Coarse 90% G4	SF 428 x 220 x 40 ePM1 60% F7	A25	A22	A22 Wi-Fi	HV2	CO2-3
VUTR 281 VE EC A21							
VUER 281 V EC A21							
VUER 281 VE EC A21							
VUTR 401 V EC A21							
VUTR 401 VE EC A21							
VUER 401 V EC A21							
VUER 401 VE EC A21							
VUTR 601 V EC A21	SF 522x240x48 Coarse 90% G4	SF 522x240x48 ePM1 60% F7					
VUTR 601 VE EC A21							

	External CO <sub>2</sub> sensor with indication	External humidity sensor	Silencer	Air damper	Electric actuator
VUTR 281 V EC A21	CO2-1	HR-S	SR 160	KRV 160	TF 230
VUTR 281 VE EC A21					
VUER 281 V EC A21					
VUER 281 VE EC A21					
VUTR 401 V EC A21					
VUTR 401 VE EC A21					
VUER 401 V EC A21					
VUER 401 VE EC A21					
VUTR 601 V EC A21			SR 200	KRV 200	
VUTR 601 VE EC A21					