Series

VENTS VUTR 701 H EC



Air handling units in heat- and sound-insulated casing. Air flow up to **890 m³/h**.
Heat recovery efficiency up to **87%**

Description

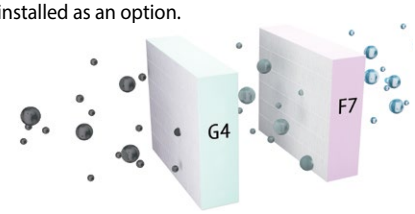
The VUTR H EC air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extraction.
Used in ventilation that require an economical solution and a controlled ventilation system.

Casing

Made of polymer-coated steel, internally filled with a mineral wool heat- and sound-insulating layer.
VUTR 701 H EC L – left-handed version.
VUTR 701 H 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 H units are equipped with condensing rotary heat exchanger.
VUER H units are equipped with enthalpy rotary heat exchanger.

Heater

The units **VUTR HE** 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.

Google play
Download on the App Store

Modbus

Hey Google

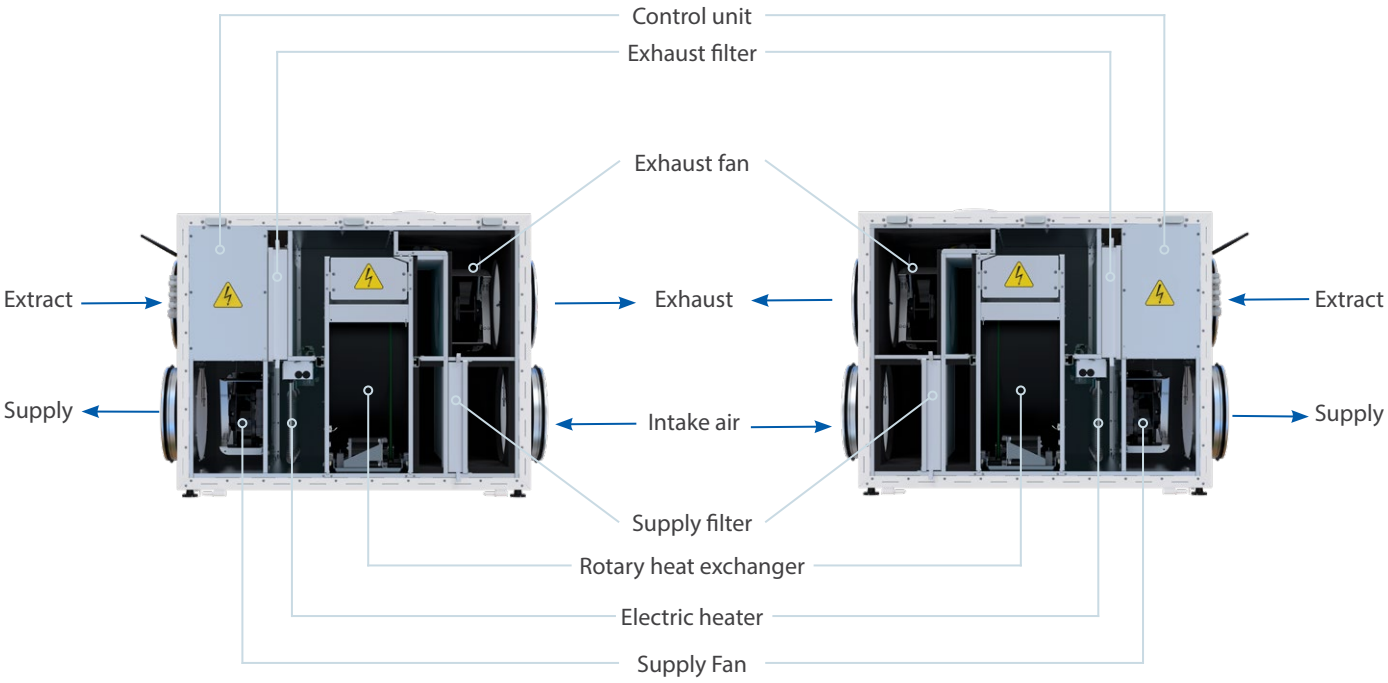
Control and automation

Functions	A21
Wired remote control panel	A22 (option) 
Control via a wired remote LCD control panel	A25 (option) 
Wireless remote control panel	A22 Wi-Fi (option) 
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	+
Fire alarm sensor connection	+
Minimum supply air temperature control	+

Designation key

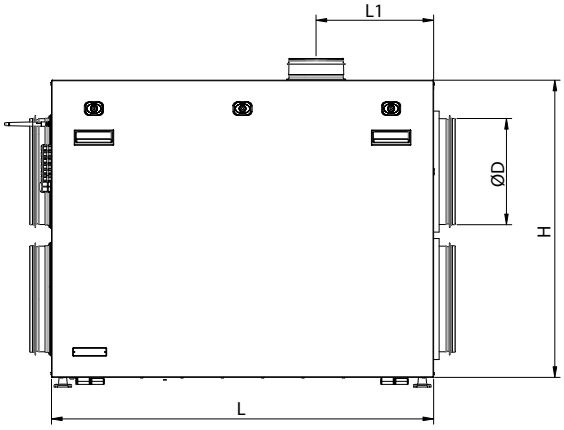
Series	Size [m³/h/10]	Modification	Mounting	Heater	Motor	Service Side	Control panel
VUTR: unit with condensation rotary heat exchanger **VUER**: unit with sorption rotary heat exchanger	70	0, 1, 2…	**H**: horizontal	_: w/o heater **E**: electric re-heater	**EC**: EC-motor	**R**: right **L**: left	A21

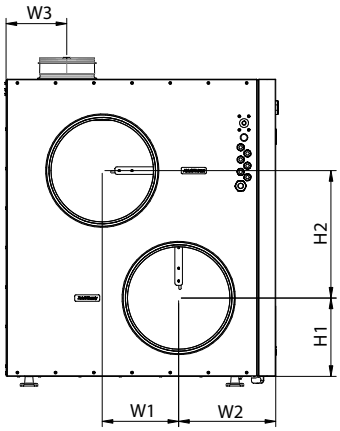
Unit design

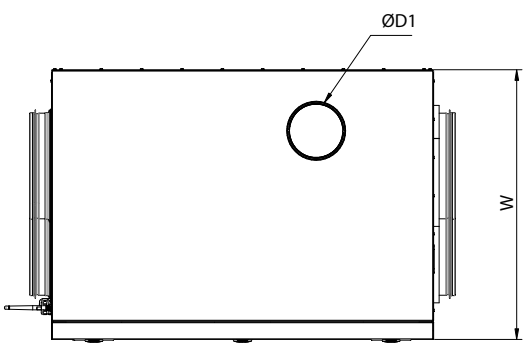


Overall dimensions

Model	Dimensions [mm]										
	H	W	L	ØD	H1	H2	W1	W2	W3	L1	ØD1
VUTR 701 H	700	635	900	250	185	300	180	229	143	277	125





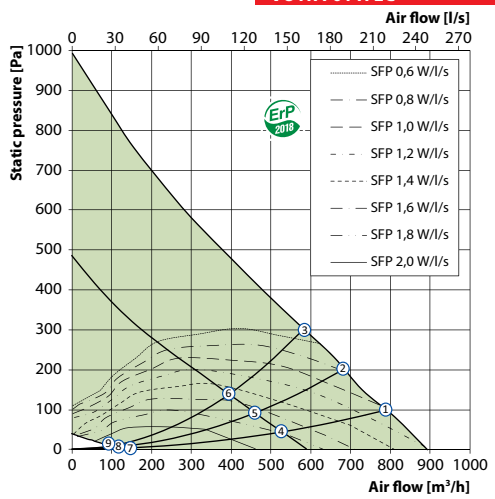


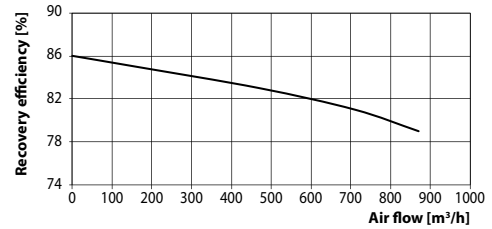
Technical data

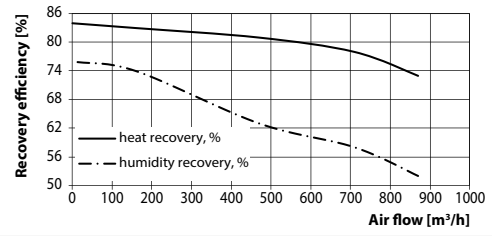
	VUTR 701 H EC	VUER 701 H EC	VUTR 701 HE EC	VUER 701 HE EC
Voltage [V / 50-60 Hz]	230			
Max. unit power without electric heater [W]	377			
Integrated electric heater power [W]	-		2000	
Max. unit power [W]	377		2377	
Max. unit current without electric heater [A]	2,7			
Integrated electric heater current [A]	-		8.9	
Max. unit current [A]	2.7		11.6	
Max air flow [m³/h]	893			
Sound pressure level at 3 m distance* [dBA]	31			
Transported air temperature [°C]	- 25...+40			
Case material	painted steel			
Insulation	40			
Extract filter	G4 / Coarse > 60%			
Supply filter	G4 / Coarse > 60% (option F7 / ePM1 60%)			
Connected air duct diameter [mm]	250			
Weight [kg]	87	89	87	89
Heat recovery efficiency [%]	86	84	86	84
Heat exchanger type	condensing	enthalpy	condensing	enthalpy
SEC class	A+	A	A+	A

*Sound pressure level [dBA] at 3 m distance is specified at point 4 in average spherical free-field, for comparitive use only.

VUTR 701 H EC



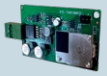


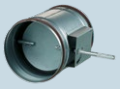


VUTR 701 H EC Sound-power level, A - weighted (**p.1** on the diagram)		General	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		dB(A)	63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	dB(A)	70	53	56	56	68	58	58	55	51		
LwA to supply outlet	dB(A)	81	62	65	65	80	68	68	65	60		
LwA to exhaust inlet	dB(A)	67	53	55	59	63	61	60	54	49		
LwA to exhaust outlet	dB(A)	77	61	64	67	73	70	69	62	57		
LwA to environment	dB(A)	59	39	42	49	54	52	54	48	44	39	48

VUTR 701 H EC Sound-power level, A - weighted (**p.4** on the diagram)		General	Octave frequency band, Hz								LpA, 3m dB(A)	LpA, 1m dB(A)
		dB(A)	63	125	250	500	1000	2000	4000	8000		
LwA to supply inlet	dB(A)	64	44	47	50	48	49	50	47	40		
LwA to supply outlet	dB(A)	66	53	56	60	58	59	61	57	48		
LwA to exhaust inlet	dB(A)	60	42	46	55	53	53	53	48	37		
LwA to exhaust outlet	dB(A)	68	49	53	64	61	61	61	55	43		
LwA to environment	dB(A)	52	39	43	45	41	44	47	40	33	31	41

Accessories for air handling units

Model	Filter G4	Filter F7	Control panel	Control panel	Wi-Fi Control panel	Internal humidity sensor	Internal CO2 sensor
							
VUTR 701 H EC A21	SF 547 x 280 x 48 Coarse 90% G4	SF 547 x 280 x 48 ePM1 60% F7	A25	A22	A22 Wi-Fi	HV-2	CO2-3
VUTR 701 HE EC A21							

Model	External CO_2 sensor	External humidity sensor	Silencer	Air dampers	Electric actuator
					
VUTR 701 H EC A21	CO2-1	HR-S	SR 250	KRV 250	TF230
VUTR 701 HE EC A21					