



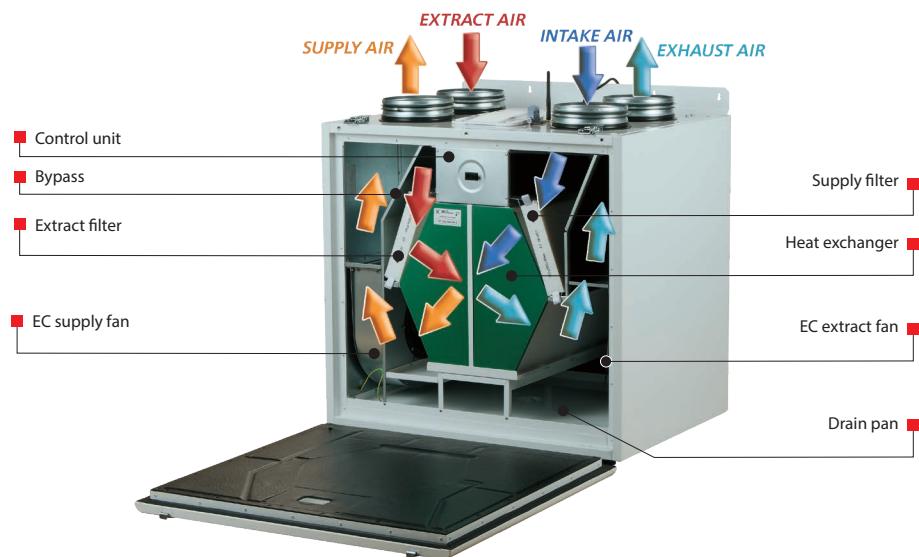
## Control and automation

Functions	A21	A14
Wired remote control panel	Option (A22) 	A14 
Wired remote LCD control panel	Option (A25) 	-
Wireless remote control panel	Option (A22 Wi-Fi) 	-
BMS	RS-485 Wi-Fi Ethernet MODBUS (RTU, TCP)	-
Service Vents Cloud Server	+	-
Control by a mobile application via Wi-Fi	+	-
Freeze protection	+	+
Bypass	Auto + manual	Manual
Week-scheduled operation	+	-
Filter replacement indication	According to filter timer According to pressure switch of filter clogging (only for VUT/VUE 550 VB EC A21)	According to filter timer
Alarm indication	+	+
Speed selection	+	+
Timers	+	-
RH% sensor	Option	Option
CO <sub>2</sub> sensor	Option	Option
VOC sensor	Option	Option
PM2.5 sensor	Option	Option
Boost mode	+	-
Fireplace mode	+	-
Preheater connection	Option	-
Reheater connection	Option	-
Cooler connection	Option	-
Fire alarm sensor	Option	Option
Minimum supply air temperature control	+	-

### ■ Installation

The units are designed for wall or floor mounting. Access for maintenance of units and filters is possible from the right and left side.

### Unit design



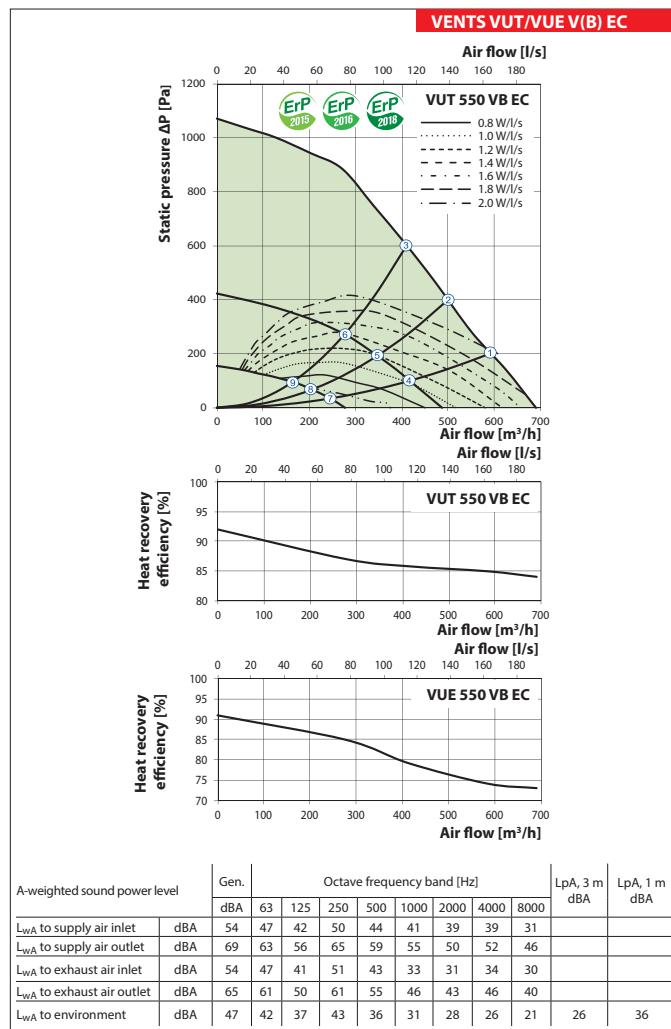






**Technical data**

	VUT 550 VB EC	VUE 550 VB EC
Unit voltage [V/50 (60) Hz]	1~230	
Maximum power [W]	337	
Maximum current [A]	2.4	
Maximum air flow [ $\text{m}^3/\text{h}$ ]	690	
RPM [ $\text{min}^{-1}$ ]	2860	
Sound pressure level at 3 m distance [dBA]	26	
Transported air temperature [°C]	from -25 up to +40	
Casing material	painted steel	
Insulation	40 mineral wool	
Extract filter	G4	
Supply filter	F7 (optionally G4)	
Connected air duct diameter [mm]	Ø200	
Weight [kg]	82	
Heat recovery efficiency [%]	from 84 up to 92	from 73 up to 91
Heat exchanger type	counter-flow	
Heat exchanger material	polystyrene	enthalpy
Energy efficiency class for A14, A21	A+	A



AIR HANDLING UNITS WITH  
VENTS  
VUT/VUE  
HEAT RECOVERY

## AIR HANDLING UNITS WITH HEAT RECOVERY

### Technical data

VUT 200 V(B) EC				VUT 250 V(VB) EC			
Outlet spigot configuration	Air flow [l/s]	Specific power input [W/l/s]	Heat exchange efficiency [%]	Outlet spigot configuration	Air flow [l/s]	Specific power input [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional room with high level of humidity	21	0.67	87	Kitchen + 1 additional room with high level of humidity	21	0.65	92
Kitchen + 2 additional rooms with high levels of humidity	29	0.69	85	Kitchen + 2 additional rooms with high levels of humidity	29	0.68	91
Kitchen + 3 additional rooms with high levels of humidity	37	0.88	84	Kitchen + 3 additional rooms with high levels of humidity	37	0.77	90
Kitchen + 4 additional rooms with high levels of humidity	45	1.13	83	Kitchen + 4 additional rooms with high levels of humidity	45	0.94	89
Kitchen + 5 additional rooms with high levels of humidity	53	1.37	83	Kitchen + 5 additional rooms with high levels of humidity	53	1.12	88
				Kitchen + 6 additional rooms with high levels of humidity	61	1.35	87
				Kitchen + 7 additional rooms with high levels of humidity	69	1.70	86

VUT 350 VB EC				VUT 550 VB EC			
Outlet spigot configuration	Air flow [l/s]	Specific power input [W/l/s]	Heat exchange efficiency [%]	Outlet spigot configuration	Air flow [l/s]	Specific power input [W/l/s]	Heat exchange efficiency [%]
Kitchen + 1 additional room with high level of humidity	21	0.71	88	Kitchen + 1 additional room with high level of humidity	21	0.71	87
Kitchen + 2 additional rooms with high levels of humidity	29	0.64	88	Kitchen + 2 additional rooms with high levels of humidity	29	0.63	88
Kitchen + 3 additional rooms with high levels of humidity	37	0.68	87	Kitchen + 3 additional rooms with high levels of humidity	37	0.63	88
Kitchen + 4 additional rooms with high levels of humidity	45	0.76	86	Kitchen + 4 additional rooms with high levels of humidity	45	0.72	88
Kitchen + 5 additional rooms with high levels of humidity	53	0.86	86	Kitchen + 5 additional rooms with high levels of humidity	53	0.84	88
Kitchen + 6 additional rooms with high levels of humidity	61	1.07	85	Kitchen + 6 additional rooms with high levels of humidity	61	0.98	87
Kitchen + 7 additional rooms with high levels of humidity	69	1.26	85	Kitchen + 7 additional rooms with high levels of humidity	69	1.16	87

### Calculation of air temperature downstream of the heat exchanger:

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

where

$t_{outd}$  – outdoor air temperature [ $^{\circ}\text{C}$ ]

$t_{extr}$  – extract air temperature [ $^{\circ}\text{C}$ ]

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







## AIR HANDLING UNITS WITH HEAT RECOVERY

### Application options

