

Series

VENTS VUT 1500 PB EC
VENTS VUT 2500 PB EC
VENTS VUT 3500 PB EC



Premium range of ceiling mounted heat recovery units for commercial applications.
 Rated air flow 600–3300 m³/h.

Description

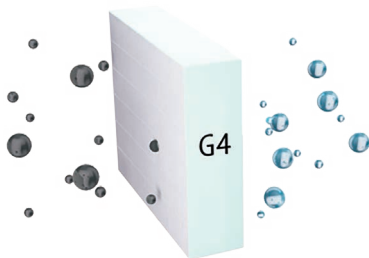
The intelligent arrangement of fans, heat recovery cores and filters, makes units slimline and easy to mount in small loft spaces, ceiling voids and false ceilings. Such as electric & LPHW heaters, volume control dampers and Nox filters are available.

Casing

Casing panels made of zinc–aluminum coated steel with a 40 mm mineral wool heat- and sound-insulating layer. Corrosion class C4 according to ISO 12944: class C4. Each model available in left or right versions. Service access on both sides and bottom. Units are designed for indoor installation

Filter

Supply and extract air flows are purified through two panel filters of the filtering class G4. The supply filter of the filtering class F7 can be provided optionally.



Fans

Fans with ERP-compliant EC motors. Impellers with backward-curved blades. Low power consumption at any speed, low noise and stable operation in any climate.

Heat exchanger

High-efficient counter-flow heat exchanger made of polystyrene. Stainless steel drain pan on both supply and exhaust sides.



Bypass

Automatic heat exchanger bypass damper with Belimo actuator provides active frost protection, free-heating and freecooling functions.

Control and automation

The units are equipped with an integrated automation system.

The A21 controller enables integration of the unit into the **Smart Home System** or **BMS (Building Management Systems)**.

The remote control panel is not included in the delivery set (purchased separately).

To control the unit via Wi-Fi, download the VENTS AHU mobile app.



Google play



Download on the App Store



Temperature regulation

- Automatic regulation of supply / extract air temperature (all units) or by room temperature (with A25 panel).
- Automatic/manual by-pass regulation for freeheating, freecooling and frost protection.
- Outputs for accessory A21 electric (triac PWM) or water (2-way/3way + pump) pre-heaters and/or re-heaters.
- Cooling coil connection (for accessory DX or water coolers).
- Water heater protection by back water temperature sensor and frost thermostat.
- Electric coil overheating protection by two thermal contacts: 50°C with automatic reset and 90°C with manual reset.




Other features

- Filter replacement indication by pressure switch.
- Password protected engineering menu (only for A25 panel).
- External damper connection.
- Fire alarm input.

Designation key

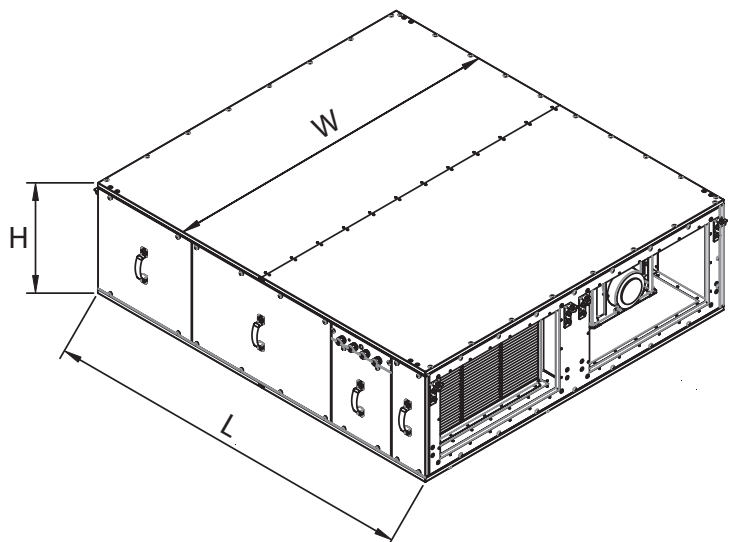
Series	Rated air flow [m ³ /h]	Installation type	Bypass	Motor type	Automation	Accessories
VENTS VUT	1500; 2500; 3500	P: suspended installation	B: bypass	EC: synchronous electronically commutated motor	A21	By default equipped with a differential pressure switch for controlling the contamination of filters (DTV)

Control and automation

Functions	A21
Wired remote control panel	Option (A22) 
Control via a wired remote LCD control panel	Option (A25) 
Wireless remote control panel	Option (A22 Wi-Fi) 
BMS	RS-485 Wi-Fi Ethernet MODBUS (RTU, TCP)
Vents Cloud Server service	+
Control via Wi-Fi using a mobile application	+
Freeze protection	+
Bypass	Auto + manual
Week-scheduled operation	+
Filter replacement indication	According to filter timer
Alarm indication	+
Speed selection	+
Timers	+
RH% sensor	Option
CO ₂ sensor	Option
VOC sensor	Option
PM2.5 sensor	Option
Boost mode	+
Fireplace mode	+
Preheater connection	Option
Reheater connection	Option
Cooler connection	Option
Fire alarm sensor	Option
Minimum supply air temperature control	+

Overall dimensions

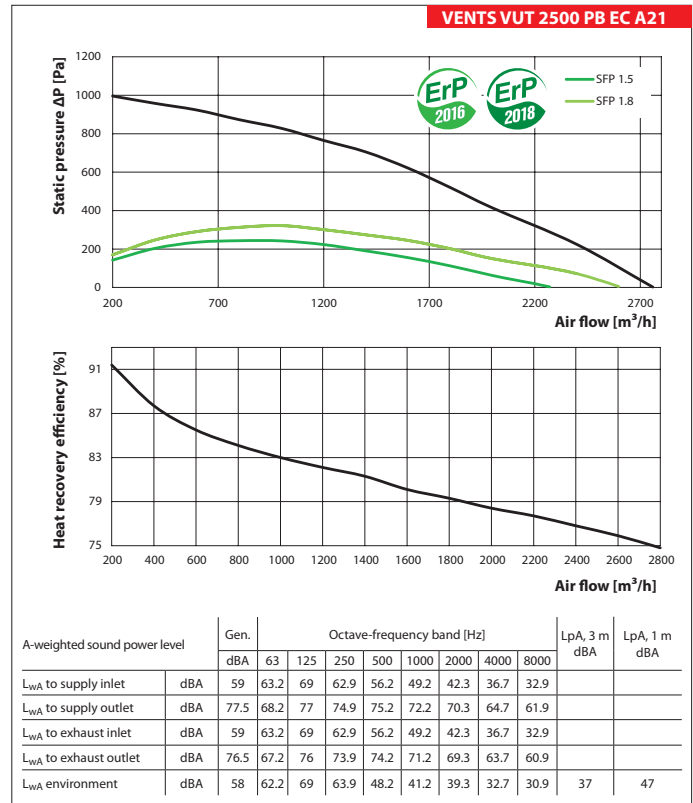
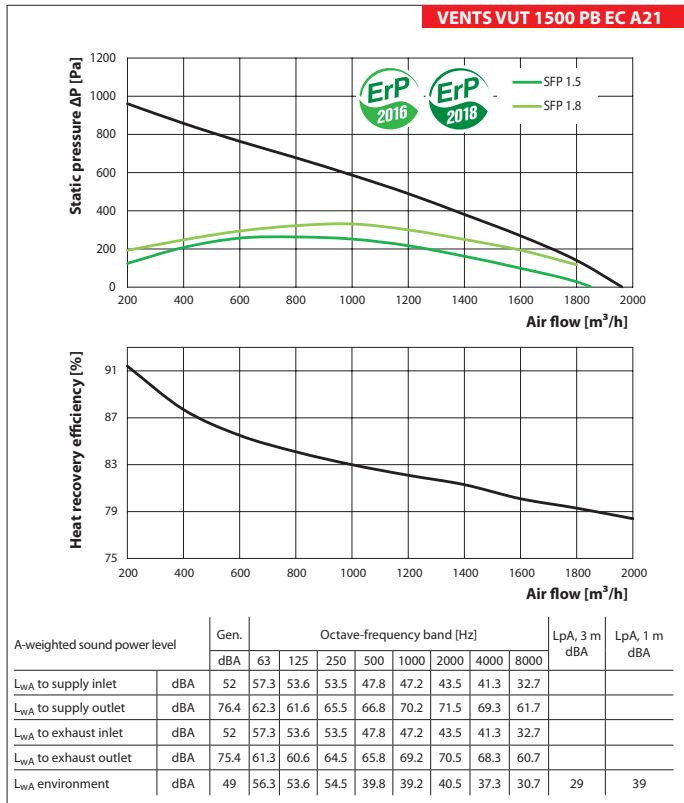
Model	L	W	H
VUT 1500 PB EC A21	1646	1500	480
VUT 2500 PB EC A21	1646	1500	480
VUT 3500 PB EC A21	1880	1500	630



AIR HANDLING UNITS WITH HEAT RECOVERY

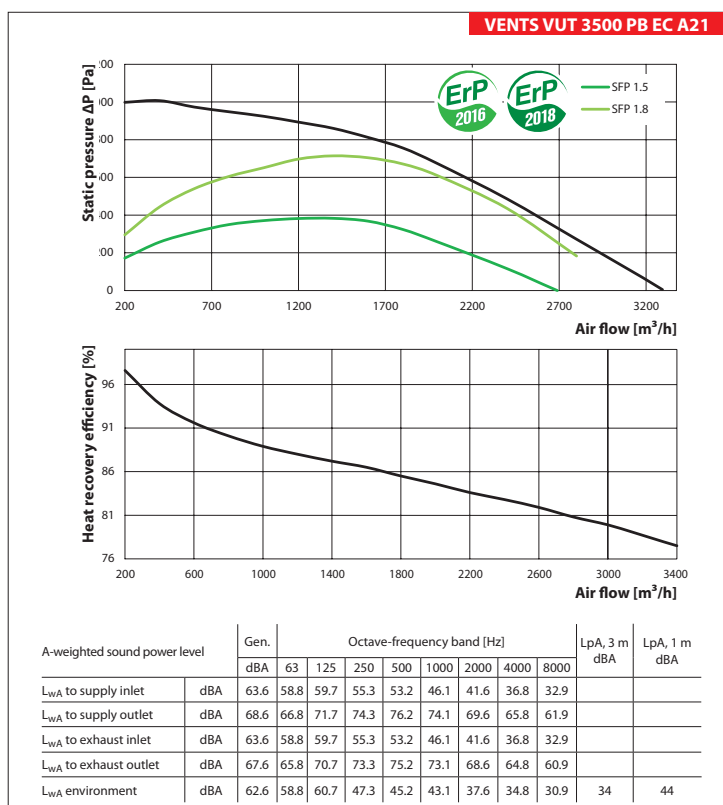
Technical data

Model	VUT 1500 PB EC A21	VUT 2500 PB EC A21
Unit supply [V/50 (60) Hz]	1~230	
Total power of the unit [W]	920	1480
Maximum unit current [A]	4	6.5
Air capacity [m³/h]	1900	2800
RPM [min⁻¹]	3000	2640
Total sound pressure level at 3 m [dBA]	29	37
Maximum temperature of transferred air [°C]	from -25 up to +40	
Case material	zinc aluminium	
Insulation	40 mm, mineral wool	40 mm, mineral wool
Filter: extract	G4 (F7 optional)	
Filter: supply	G4 (F7 optional)	
Size of connected air duct [mm]	600x350	600x350
Weight [kg]	215	220
Heat exchanger type	counter-flow	
Heat exchanger material	polystyrene	
EE Class	A+	A+



Technical data

Model	VUT 3500 PB EC A21
Unit supply [V/50 (60) Hz]	3~380
Total power of the unit [W]	2240
Maximum unit current [A]	3.6
Air capacity [m ³ /h]	3300
RPM [min ⁻¹]	2400
Total sound pressure level at 3 m [dBA]	34
Maximum temperature of transferred air [°C]	from -25 up to +40
Case material	zinc aluminium
Insulation	40 mm, mineral wool
Filter: extract	G4 (F7 optional)
Filter: supply	G4 (F7 optional)
Size of connected air duct [mm]	600x350
Weight [kg]	290
Heat exchanger type	counter-flow
Heat exchanger material	polystyrene
EE Class	A+



AIR HANDLING UNITS WITH HEAT RECOVERY

Accessories for air handling units

	Control panel	Control panel	Control panel	Electric heater	Electric heater	Electric heater	Freon cooler	Water cooler
								

VUT 1500 PB EC A21

VUT 2500 PB EC A21

A22

A22 WiFi

A25

HE
600x350-5.1-1
A21











HE
600x350-9,0-3
A21

HE
600x350-12,0-3
A21

CDX
600x350-3

CW
600x350-3

VUT 3500 PB EC A21

	Water heater	Air damper	F7 cassette filter	G4 cassette filter	Electric actuator	Three-way motorized ball valve with actuator	Water mixing set for water heater	Filter pressure switch	Flexible duct connection	Duct silencer
										

VUT 1500 PB EC A21

VUT 2500 PB EC A21

HW
600x350-2

RRV
P600x350

SF
196x384x40
F7 6

SF
196x384x40
G4 6

TF 230

Belimo
R3020-4-B1+
LR24A-SR

USVK
3/4-4

DTV 500

VVG AV
600x350

SR
600x350

VUT 3500 PB EC A21

SF
253x603x48
F7 4

SF
253x603x48
G4 4

Belimo
R3020-
6P3-B1+
LR24A-SR

USVK
3/4-6

	Round flange	Room CO ₂ sensor with indication	Duct CO ₂ sensor	Humidity sensor	Humidity sensor	External VOC sensor (0-10V)	External CO ₂ sensor (0-10V)	External humidity sensor (0-10V)
								

VUT 1500 PB EC A21

VUT 2500 PB EC A21

FP AV
600x350-315

CO2-1

KCO2-2

HV2

HRS

DPWQ30600

DPWQ40200

DPWC11200

VUT 3500 PB EC A21