

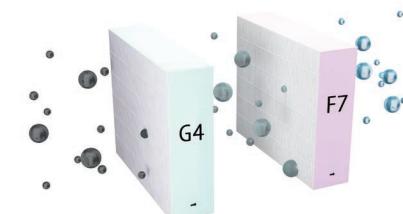
Series

VENTS VUT/VUE HB EC
VENTS VUT/VUE HBE EC

Heat recovery air handling units in sound- and heat-insulated casings

Air flow up to **830 m³/h**

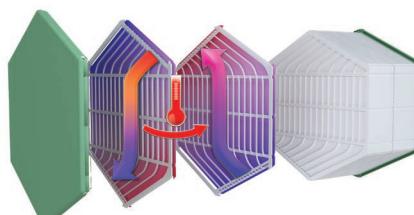
Heat recovery efficiency up to **98 %**

**Fans**

High-efficient electronically-commutated motors with external rotor. The 700 size units are equipped with fans with backward curved blades.

Heat exchanger

The VUT units are equipped with a counter-flow polystyrene heat exchanger.



The VUE units are equipped with enthalpy counter-flow heat exchanger.

**Heater**

The VUT/VUE HBE EC units are equipped with an electric heater for additional heating of supply air downstream of the heat exchanger.

ler allows integrating the unit into the Smart Home system or BMS (Building Management Systems). To control the unit using a mobile application via Wi-Fi, you need to download the VENTS Home mobile application.



Google play



Download on the
App Store

**Frost protection**

Frost protection in the VUT/VUE HBE EC A21 units is achieved by a bypass. A preheater can be additionally installed in the VUT/VUE HB EC A21 units for frost protection.

**Mounting**

The unit is designed for suspended or floor mounting. Access for service and filter cleaning from the front panel. During mounting stage the front and the back panels can be reversed providing either left-handed or right-handed unit mounting.

Description

The VUT/VUE HB EC and VUT/VUE HBE EC air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extract. Used in ventilation and air conditioning systems in commercial, office and other public or industrial premises that require an economical solution and a controlled ventilation system.

Modifications

The **VUT HB EC** model is equipped with a counter-flow heat exchanger made of polystyrene.

The **VUT HBE EC** model is equipped with a counter-flow heat exchanger made of polystyrene and an electric heater.

The **VUE HB EC** model is equipped with an enthalpy counter-flow heat exchanger.

The **VUE HBE EC** model is equipped with an enthalpy counter-flow heat exchanger and an electric heater.

Casing

Made of aluzinc steel, internally filled with a 40 mm mineral wool heat- and sound-insulating layer.

Filter

Two built-in panel filters with filtration class G4 and F7 provide efficient supply air filtration. The G4 panel filter is used for extract air cleaning.

Bypass

The unit is equipped for summer cooling. If the unit is equipped with an electric heater, the bypass is used for frost protection of the heat exchanger.

Automation

The VUT/VUE HB(E) EC A21 units are equipped with an integrated control system. The A21 control-

Designation key

Series	Rated air flow [m ³ /h]	Spigot orientation	Bypass	Heater type	Motor type	Automation
VUT: ventilation with heat recovery VUE: ventilation with energy recovery	300; 400; 700	H: horizontal	B: bypass	: without a heater E: electric heater	EC: synchronous electronically commutated motor	A21

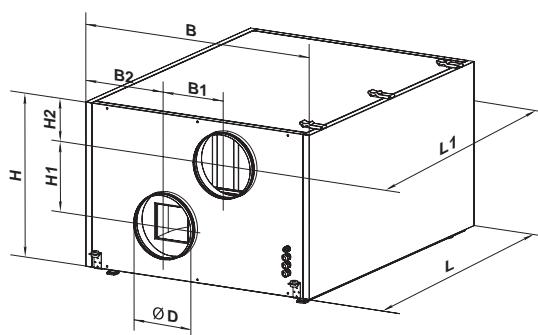
Control and automation

Functions	A21
Control via Wi-Fi using a mobile application	+ option (A22)
Control via a wired remote control panel	option (A25)
Wired remote LCD control panel	
Control via a wireless remote control panel	option (A22 Wi-Fi)
BMS	RS-485 Wi-Fi Ethernet MODBUS (RTU, TCP)
Service Vents Cloud Server	+ + + according to hour meter readings
Speed selection	according to filter clogging differential pressure switch readings
Filter replacement indication	full alarm description in the mobile application
Alarm indication	+ automatic
Week-scheduled operation	manual
Bypass	+ + + + + through cyclic stops of the supply fan
Timers	through preheating (option)
Boost mode	using a bypass
Fireplace mode	
Frost protection	
Reheater connection	option
Cooler connection	option
Minimum supply air temperature control	+ option
Humidity control	option
CO ₂ controller	option
VOC controller	option
PM2.5 control	option
Fire alarm sensor connection	option

*Option. The functionality is available when you purchase the appropriate accessory.

Overall dimensions

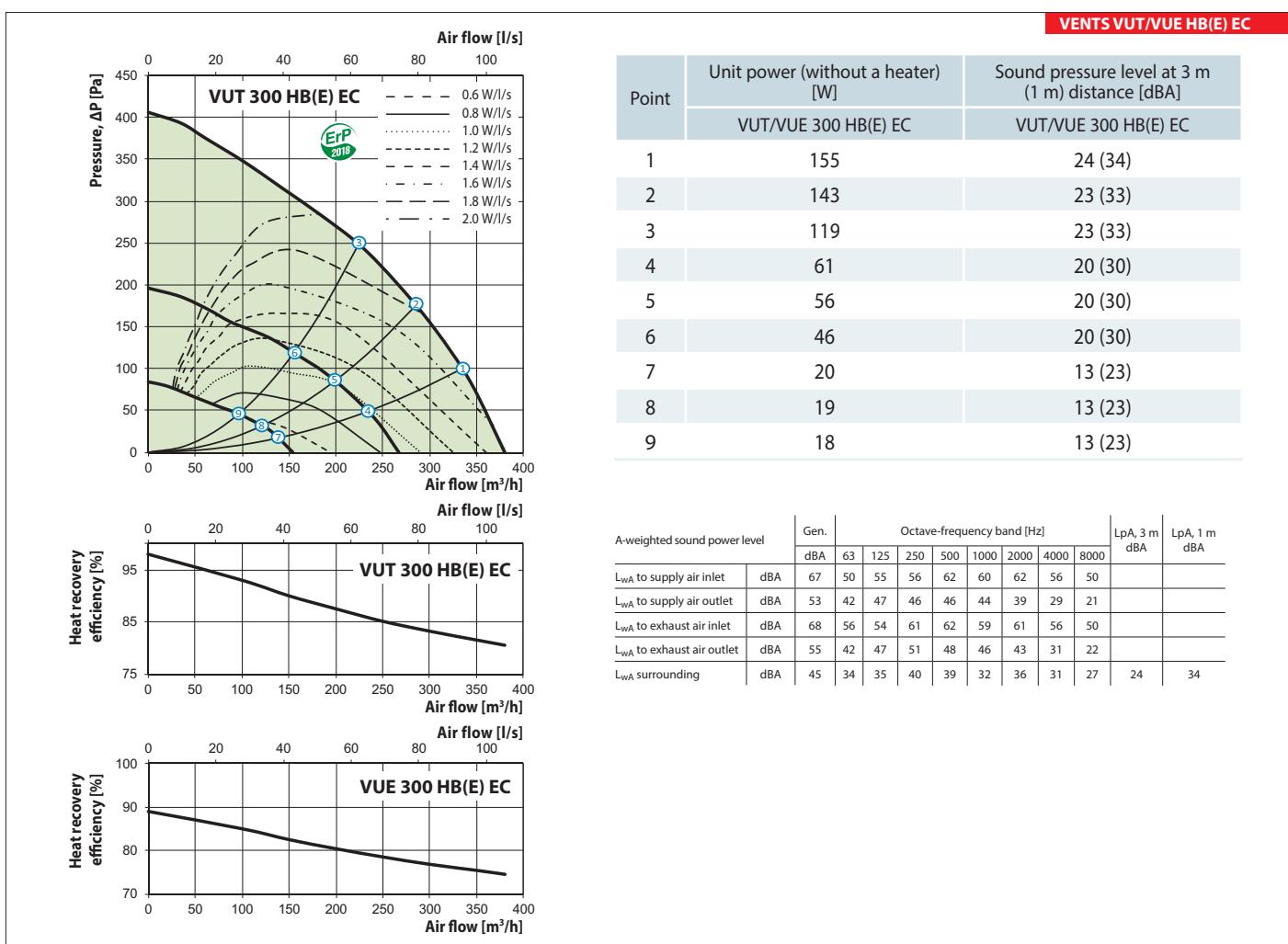
Model	Dimensions [mm]									
	Ø D	B	B1	B2	H	H1	H2	L	L1	
VUT/VUE 300 HB(E) EC	157	566	190	189	479	193	118	1083	1180	
VUT/VUE 400 HB(E) EC	197	682	248	217	504	201	141	1094	1191	
VUT/VUE 700 HB(E) EC	247	866	274	296	601	234	166	1282	1379	



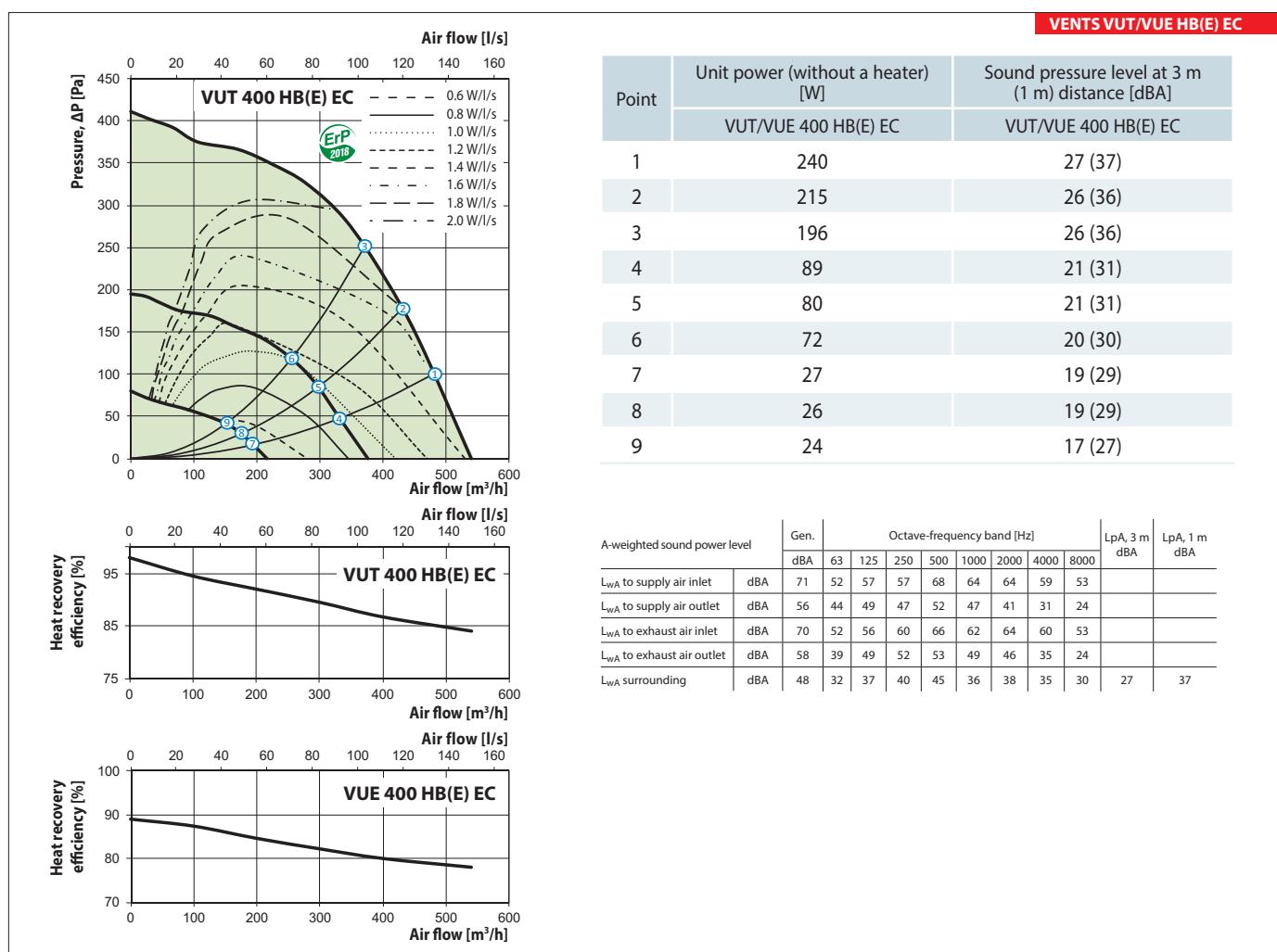
AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	VUT 300 HB EC A21	VUT 300 HBE EC A21	VUE 300 HB EC A21	VUE 300 HBE EC A21
Unit voltage [V/50 (60) Hz]		1~230		
Maximum unit power (without a heater) [W]	182		182	
Maximum unit current (without a heater) [A]	1.4		1.4	
Electric heater power [W]	-	2800	-	2800
Electric heater current [A]	-	12.2	-	12.2
Maximum unit power with an electric heater [W]	182	2982	182	2982
Maximum unit current (with an electric heater) [A]	1.4	13.6	1.4	13.6
Maximum air flow [m³/h]	380		380	
Sound pressure level at 3 m distance [dBA]	24		24	
Maximum transported air temperature [°C]		-2...+40		
Casing material	galvanized steel			
Insulation	40 mm mineral wool			
Filter: extract	G4			
Filter: supply	G4+F7			
Connected air duct diameter [mm]	Ø160		Ø160	
Weight [kg]	63.1	64.3	63.1	64.3
Heat recovery efficiency	from 80 up to 98 %		from 74 up to 89 %	
Heat exchanger type	counter-flow			
Heat exchanger material	polystyrene		enthalpy	
SEC class	A+	A+	A	A



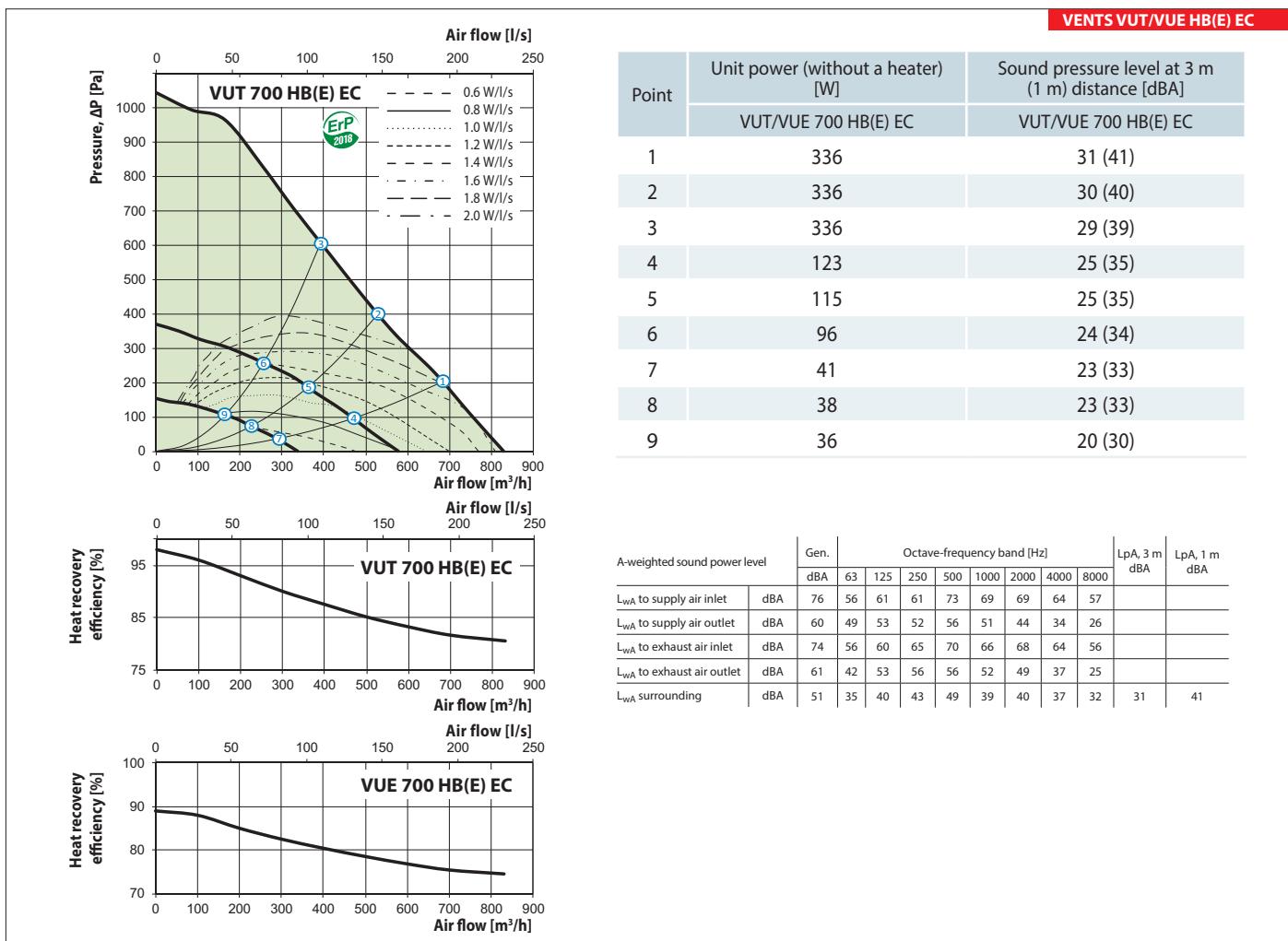
	VUT 400 HB EC A21	VUT 400 HBE EC A21	VUE 400 HB EC A21	VUE 400 HBE EC A21
Unit voltage [V/50 (60) Hz]	1~230			
Maximum unit power (without a heater) [W]	289		289	
Maximum unit current (without a heater) [A]	2.1		2.1	
Electric heater power [W]	-	2800	-	2800
Electric heater current [A]	-	12.2	-	12.2
Maximum unit power with an electric heater [W]	289	3089	289	3089
Maximum unit current (with an electric heater) [A]	2.1	14.3	2.1	14.3
Maximum air flow [m³/h]	540		540	
Sound pressure level at 3 m distance [dBA]	27		27	
Maximum transported air temperature [°C]	-25...+40			
Casing material	galvanized steel			
Insulation	40 mm mineral wool			
Filter: extract	G4			
Filter: supply	G4+F7			
Connected air duct diameter [mm]	Ø200		Ø200	
Weight [kg]	74.8	76	74.8	76
Heat recovery efficiency	from 84 up to 98 %			
Heat exchanger type	counter-flow			
Heat exchanger material	polystyrene		enthalpy	
SEC class	A+	A+	A	A



AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

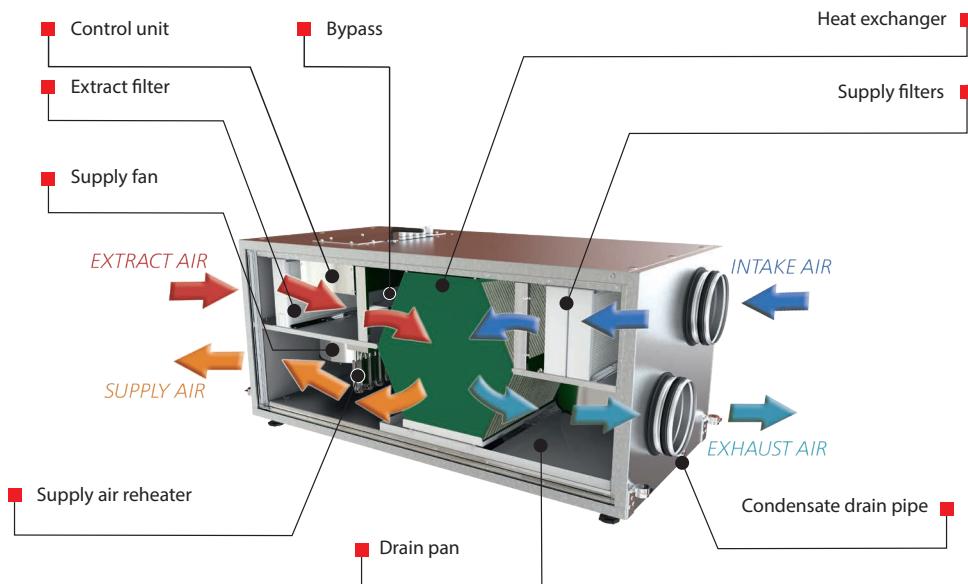
	VUT 700 HB EC A21	VUT 700 HBE EC A21	VUE 700 HB EC A21	VUE 700 HBE EC A21
Unit voltage [V/50 (60) Hz]			1~230	
Maximum unit power (without a heater) [W]	336			336
Maximum unit current (without a heater) [A]	2.4			2.4
Electric heater power [W]	-	3600	-	3600
Electric heater current [A]	-	15.6	-	15.6
Maximum unit power with an electric heater [W]	336	3936	336	3936
Maximum unit current (with an electric heater) [A]	2.4	18.0	2.4	18.0
Maximum air flow [m³/h]	830		830	
Sound pressure level at 3 m distance [dBA]	31		31	
Maximum transported air temperature [°C]		-25...+40		
Casing material	galvanized steel			
Insulation	40 mm mineral wool			
Filter: extract	G4			
Filter: supply	G4+F7			
Connected air duct diameter [mm]	Ø250		Ø250	
Weight [kg]	107	108.4	107	108.4
Heat recovery efficiency	from 80 up to 98 %		from 74 up to 89 %	
Heat exchanger type	counter-flow			
Heat exchanger material	polystyrene		enthalpy	
SEC class	A+	A+	A	A



Accessories for air handling units

Model	G4 panel filter	F7 panel filter	LCD control panel	Control panel	Wi-Fi controllable control	Humidity sensor (0-10 V)	CO ₂ sensor	CO ₂ sensor with indication	Humidity sensor
VUT/VUE 300 HB EC A21	SF 484x178x48 G4	SF 484x178x48 F7	A25	A22	A22 Wi-Fi	HV2	CO2-1	CO2-2	HR-S
VUT/VUE 300 HBE EC A21	SF 600x205x48 G4	SF 600x205x48 F7	A25	A22	A22 Wi-Fi				
VUT/VUE 400 HB EC A21	SF 784x253x48 G4	SF 784x253x48 F7	A25	A22	A22 Wi-Fi				
VUT/VUE 700 HB EC A21	SF 784x253x48 G4	SF 784x253x48 F7	A25	A22	A22 Wi-Fi				
VUT/VUE 700 HBE EC A21									

Model	Electric re heater	Electric heater for preheating	Silencers	Back valves	Air dampers	Electric actuator
VUT/VUE 300 HB EC A21	NKD 160 A21 V.2	NKP 160 A21 V.2	SR 160 600/900/1200	KOM 160	KRV 160	
VUT/VUE 300 HBE EC A21	-	NKP 160 A21 V.2				
VUT/VUE 400 HB EC A21	NKD 200 A21 V.2	NKP 200 A21 V.2	SR 200 600/900/1200	KOM 200	KRV 200	TF230
VUT/VUE 400 HBE EC A21	-	NKP 200 A21 V.2				
VUT/VUE 700 HB EC A21	NKD 250 A21 V.2	NKP 250 A21 V.2	SR 250 600/900/1200	KOM 250	KRV 250	
VUT/VUE 700 HBE EC A21	-	NKP 250 A21 V.2				

Unit design

Application options

