

Series

VENTS VUT/VUE V mini

A1 speed controller



Air handling units in compact sound- and heat-insulated casing with vertical duct connections. Maximum air flow – **300 m³/h**

Series

VENTS VUT/VUE H mini

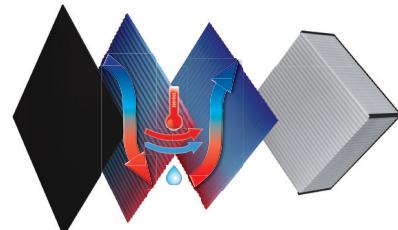
A1 speed controller



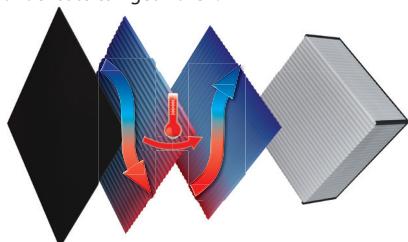
Air handling units in compact sound- and heat-insulated casing with horizontal duct connections. Maximum air flow – **300 m³/h**

Heat exchanger

VUE mini: plate heat exchanger made of polymerized cellulose with heat recovery efficiency up to 78 %. The applied heat exchanger enables not only heat but also humidity recovery, which helps maintaining a comfortable humidity level. In warm seasons the heat exchanger operates to cool down and dehumidify the supply air. In cold seasons the heat exchanger operates to warm up supply air and humidify it.



VUT mini: the plate heat exchanger is made of aluminium plates. Whenever heat recovery is not required for unit operation, the heat exchanger block can be easily replaced by a "summer" block. The unit is equipped with a drain pan for condensate drainage and removal as well as with a built-in icing protecting system. The heat from the warm extract air is transferred to the cold supply air during operation of the heat exchanger in winter time. Some condensate may form during extract air heat energy extraction. If the temperature of the intake air is below -5°C, the condensate can get frozen.

**Description**

The VUT/VUE mini air handling units are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extract. During the operation process the extract air heat is transferred to the supply air through the plate heat exchanger. All models are designed for connection to ø100 and 125 mm round air ducts.

Modifications

VUT V mini: models with vertical duct connections, fans with AC motors with an aluminium heat exchanger.

VUT H mini: models with horizontal duct connections, fans with AC motors with an aluminium heat exchanger.

VUE V mini: models with vertical duct connections, fans with AC motors with a heat exchanger of polymerized cellulose.

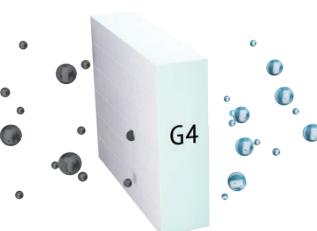
VUE H mini: models with horizontal duct connections, fans with AC motors with a heat exchanger of polymerized cellulose.

Casing

Made of aluzinc steel, internally filled with 20 mm mineral wool heat- and sound-insulating layer.

Filter

Two built-in filters with filtering class G4 provide efficient supply and extract air filtration.

**Fans**

The unit is equipped with a supply and exhaust centrifugal fan with backward curved blades and integrated overheating protection thermostat with automatic restart. The motors and the impellers are dynamically balanced in two planes.

To prevent the heat exchanger freezing, electronic protection system is applied. It switches the supply fan off as the temperature sensor requires. Warm extract air defrosts the heat exchanger, then the supply fan switches on and the unit returns to normal operation.

Designation key

Series	Rated air flow [m ³ /h]	Spigot modification	Model	Integrated automation system
VUT: ventilation with heat recovery VUE: ventilation with energy recovery	200; 300	V: vertical H: horizontal	mini	(RS): A1 speed controller (RS-1-400)

■ Control

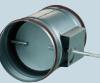
Switching the unit on and its capacity control is performed with the A1 thyristor speed controller (RS-1-400) which provides smooth motor speed control over the range of 0-100 %.

■ Installation

Air handling unit is mounted on the floor or suspended to the ceiling by means of a seat angle with inserted vibration-damping element or attached to a wall with brackets. The unit can be mounted in service spaces, in main premises above the suspended

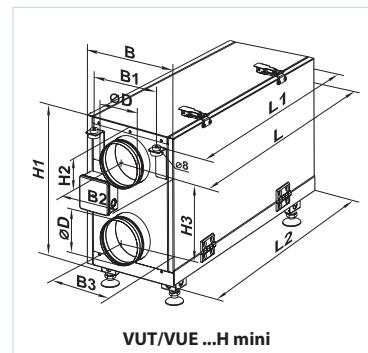
ceiling or in the pocket. The unit can be also placed directly in the room. Mounting position shall provide correct condensate drainage. Access for maintenance and filter cleaning is from the side of the removable side panel on the left along the air flow.

Accessories for air handling units

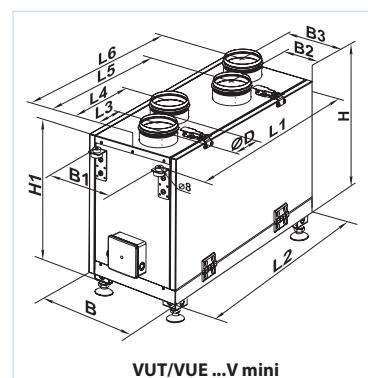
Model	Panel filter G4	Silencers		Back valves	Air dampers	Clamps	Electric actuators		Summer blocks
									
VUT 200 H/V mini							X 100		
VUE 200 H/V mini	SF 184x240x40	SR 100	SRF 100	KOM 100	KRV 100		LF230	TF230	VL R4 200/240
VUT 300 H/V mini	G4								
VUE 300 H/V mini		SR 125	SRF 125	KOM 125	KRV 125	X 125			

Overall dimensions of units

Model	Dimensions [mm]											
	ØD	B	B1	B2	B3	H1	H2	H3	L	L1	L2	
VUT/VUE 200 H mini	99	278	200	121	192	431	84	107	699	640	600	
VUT/VUE 300 H mini	124	278	200	139	139	431	89	207	699	640	600	



Model	Dimensions [mm]												
	ØD	B	B1	B2	B3	H	H1	L1	L2	L3	L4	L5	L6
VUT/VUE 200 V mini	99	278	200	109	169	450	431	640	600	73.5	204	396	529
VUT/VUE 300 V mini	124	278	200	100	178	450	431	640	600	74	210	390	526



AIR HANDLING UNITS WITH HEAT RECOVERY

Technical data

	VUT 200 H mini VUT 200 V mini	VUE 200 H mini VUE 200 V mini	VUT 300 H mini VUT 300 V mini	VUE 300 H mini VUE 300 V mini
Voltage [V/Hz]	1~ 220-240/50 (60)		1~ 220-240/50 (60)	
Maximum fan power [W]	116		116	
Fan current [A]	0.52		0.52	
Total unit power [W]	116		116	
Total unit current [A]	0.52		0.52	
Maximum air flow [m³/h]	200		300	
RPM [min⁻¹]	2500		2500	
Sound pressure level at 3 m distance [dBA]	24-45		24-45	
Transported air temperature [°C]	from -25 up to +50		from -25 up to +50	
Casing material	aluzinc		aluzinc	
Insulation	20 mm mineral wool		20 mm mineral wool	
Filter: extract/supply	G4		G4	
Connected air duct diameter [mm]	Ø 100		Ø 125	
Weight [kg]	30		30	
Heat recovery efficiency	up to 85 %	up to 78 %	up to 85 %	up to 78 %
Heat exchanger type	cross-flow		cross-flow	
SEC class	C			
Heat exchanger material	aluminium	polymerized cellulose	aluminium	polymerized cellulose

