

AIR HANDLING UNITS WITH HEAT RECOVERY

Series  
**VENTS VUT V mini**



Speed controller RS-1-400

Air handling units with the air capacity up to **300 m<sup>3</sup>/h** in the compact sound- and heat-insulated casing with vertical duct connections

Series  
**VENTS VUT H mini**



Speed controller RS-1-400

Air handling units with the air capacity up to **300 m<sup>3</sup>/h** in the compact sound- and heat-insulated casing with horizontal duct connections

■ **Description**

VUT air handling units mini are the complete ventilation units designed for air filtration, heating and supply to the premises and removal of exhaust air. The heat of the exhausted air is transferred to the supply air through the plate heat exchanger. All the models are compatible with 100 and 125 mm round ducts.

■ **Modifications**

**VUT V mini** – the models with vertical duct connections, fans with AC motors.

**VUT H mini** – the models with horizontal duct connections, fans with AC motors.

■ **Casing**

The casing is made of aluzink with 20 mm mineral wool internal heat and sound insulation.

■ **Filter**

Two G4 built-in filters ensure supply and exhaust air filtration.

■ **Fans**

The unit is equipped with supply and exhaust centrifugal fans with backward curved blades and built-in thermal overheating protection with automatic restart. The electric motors and the impellers are dynamically balanced in two planes.

■ **Heat exchanger**

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 also equipped with the drain pan for condensate drainage as well as with built-in icing protecting system. During operation of the heat exchanger in the winter time the heat from the warm exhaust air is transferred to the cold supply air. During extract air heat energy extraction some condensate can be generated. If the temperature of the intake air is below -5°C the condensate can get frozen. 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 continues operating under rated conditions.

■ **Control**

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

■ **Mounting**

Air handling unit is mounted on the floor and 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 either in service spaces or in main premises above the suspended ceiling, in the pocket or the unit can be placed directly in the room. Mounting position shall provide correct condensate drainage. Access for maintenance and filter cleaning shall be reserved on the side of the removable side panel.

Designation key: \_\_\_\_\_

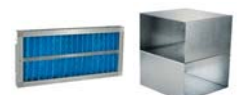
Series	Rated air capacity, m <sup>3</sup> /h	Duct connection	Type
<b>VENTS VUT</b>	200; 300	<b>V</b> – vertical duct connection <b>H</b> – horizontal duct connection	<b>mini</b>

Accessories



page 240   page 240   page 294   page 296   page 305   page 310   page 310   page 311

Offered options to the units

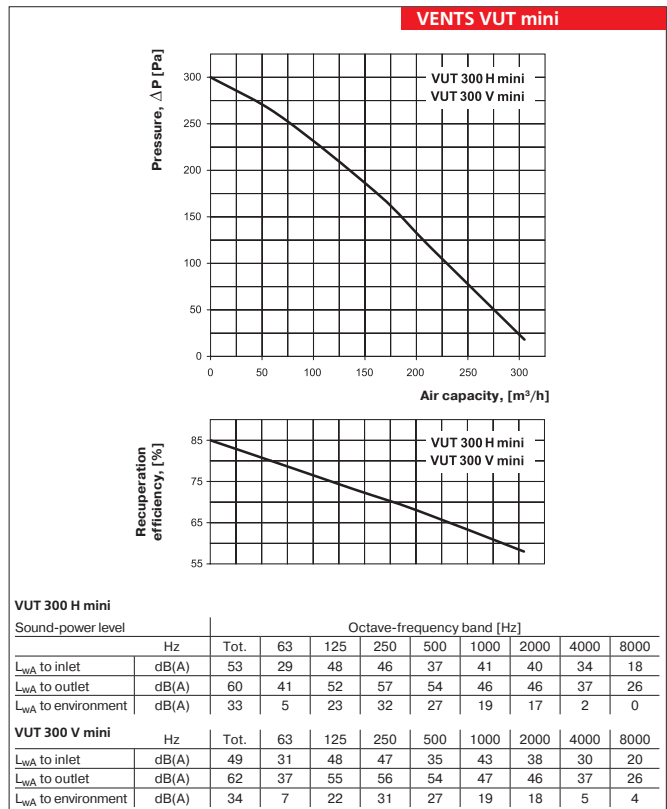
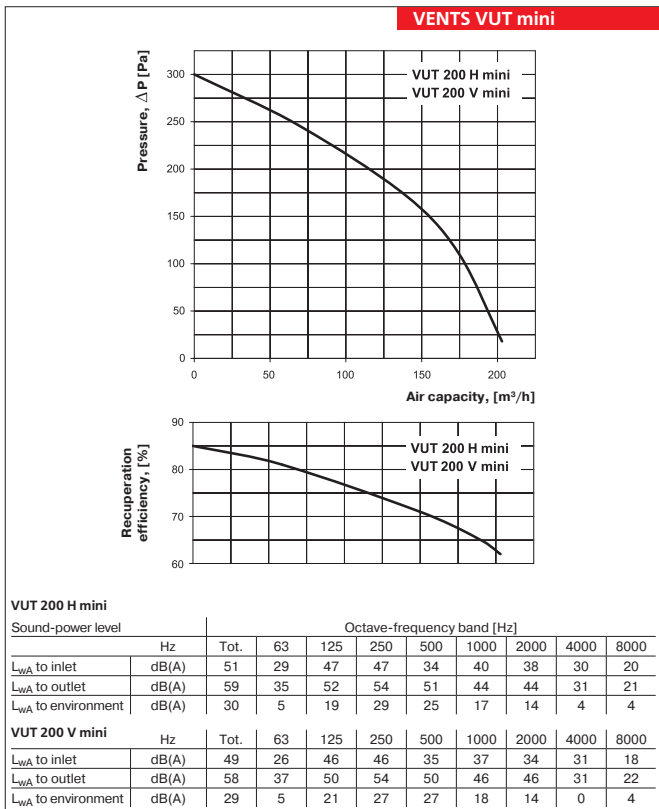


page 189   page 189

**Technical data:**

	VUT 200 H mini	VUT 200 V mini	VUT 300 H mini	VUT 300 V mini
Unit supply voltage [V / 50 Hz]	1~ 230		1~ 230	
Maximum fan power [W]	2pcs. x 58		2pcs. x 58	
Fan current [A]	2pcs. x 0,26		2pcs. x 0,26	
Total power of the unit [W]	116		116	
Total current of the unit [A]	0,52		0,52	
Air capacity [m³/h]	200		300	
RPM	2500		2500	
Noise level at 3m [dB[A]]	24-45		28-47	
Operating temperature [°C]	-25 up to +50		-25 up to +50	
Casing material	aluzink		aluzink	
Insulation	20 mm mineral wool		20 mm mineral wool	
Filter: exhaust / supply	panel filter G4		panel filter G4	
Replaceable filter*	SF VUT mini G4		SF VUT mini G4	
Summer block*	VL VUT mini		VL VUT mini	
Duct connection diameter, [mm]	∅ 100		∅ 125	
Weight, [kg]	30		30	
Recuperation efficiency	up to 85%		up to 85%	
Heat exchanger type	cross-flow type		cross-flow type	
Heat exchanger material	aluminum		aluminum	

\*option

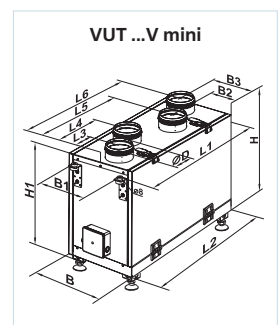
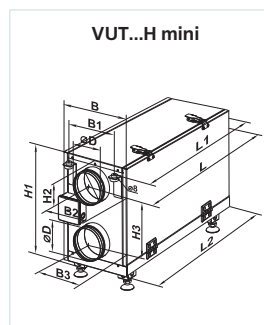


**Unit overall dimensions:**

Type	Dimensions, [mm]											
	∅D	B	B1	B2	B3	H	H1	H2	H3	L	L1	L2
VUT 200 H mini	99	278	200	121	192	481	431	84	191	699	640	600
VUT 300 H mini	124	278	200	139	139	481	431	89	296	699	640	600

Type	Dimensions, [mm]												
	∅D	B	B1	B2	B3	H	H1	L1	L2	L3	L4	L5	L6
VUT 200 V mini	99	278	200	109	169	481	431	640	600	73,5	204	396	526,5
VUT 300 V mini	124	278	200	100	178	481	431	640	600	74	210	390	526



**VENTS**  
 AIR HANDLING UNIT WITH  
 HEAT RECOVERY SERIES  
 VUT mini