

FTX Ventilationsaggregat

AIR HANDLING UNITS WITH HEAT RECOVERY

Series VUT V mini



Speed controller RS-1-400

Air handling units with the air capacity up to **300 m³/h** in the compact sound- and heat-insulated casing with vertical duct connections

Series VUT H mini



Speed controller RS-1-400

Air handling units with the air capacity up to **300 m³/h** in the compact sound- and heat-insulated casing with horizontal duct connections

■ Description

Air handling units VUT (H) 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 (RS-1-400) which provides smooth motor speed control over the range of 0-100%.

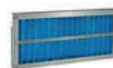
■ Mounting

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 on the left from supply air side.

Designation key: _____

Series	Rated air capacity [m³/h]	Duct connection	Type
VUT	200; 300	V – vertical H – horizontal	mini

Accessories



Filters



Summer cassette

Technical data:

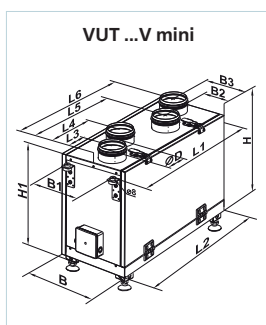
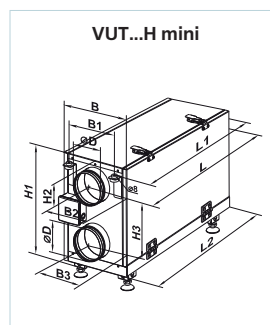
	VUT 300 H mini	VUT 300 V mini
Voltage [V / 50 Hz]	1 ~ 230	
Maximum fan power [W]	2pcs. x 58	
Fan current [A]	2pcs. x 0.26	
Total unit power [W]	116	
Total unit current [A]	0.52	
Air capacity [m³/h]	300	
RPM	2500	
Noise level at 3m [dBA]	28-47	
Transported air [°C]	-25 up to +50	
Casing material	aluzink	
Insulation	20 mm mineral wool	
Filter: extract / supply	panel filter G4	
Replaceable filter*	SF VUT mini G4	
Summer block*	VL VUT mini	
Connected air duct diameter [mm]	Ø 125	
Weight [kg]	30	
Heat recovery efficiency	up to 85%	
Heat exchanger type	cross-flow type	
Heat exchanger material	aluminum	

*option

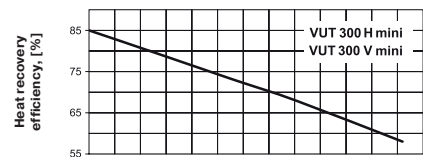
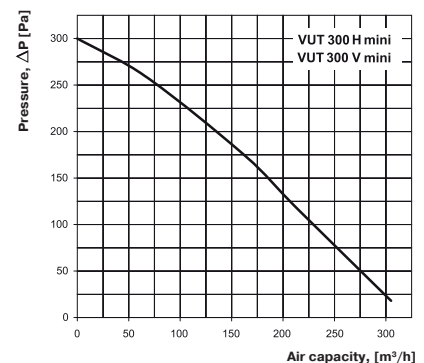
Unit overall dimensions:

Type	Dimensions, [mm]										
	ØD	B	B1	B2	B3	H1	H2	H3	L	L1	L2
VUT 300 H mini	124	278	200	139	139	431	89	296	699	640	600

Type	Dimensions, [mm]												
	ØD	B	B1	B2	B3	H	H1	L1	L2	L3	L4	L5	L6
VUT 300 V mini	124	278	200	100	178	481	431	640	600	74	210	390	526



VENTS VUT 300 mini



VUT 300 H mini

Sound-power level	Hz	Tot.	Octave-frequency band [Hz]							
			63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dB(A)	53	29	48	46	37	41	40	34	18
L _{WA} to outlet	dB(A)	60	41	52	57	54	46	46	37	26
L _{WA} to environment	dB(A)	33	5	23	32	27	19	17	2	0

VUT 300 V mini

Sound-power level	Hz	Tot.	Octave-frequency band [Hz]							
			63	125	250	500	1000	2000	4000	8000
L _{WA} to inlet	dB(A)	49	31	48	47	35	43	38	30	20
L _{WA} to outlet	dB(A)	62	37	55	56	54	47	46	37	26
L _{WA} to environment	dB(A)	34	7	22	31	27	19	18	5	4