

Series  
**VENTS VUT 300 V mini EC Comfo**



The air handling units in compact heat- and sound-insulated casing with vertical spigot orientation. Air capacity up to **300 m<sup>3</sup>/h**, heat recovery efficiency up to 78%.

Series  
**VENTS VUT 300 H mini EC Comfo**



The air handling units in compact heat- and sound-insulated casing with horizontal spigot orientation. Air capacity up to **300 m<sup>3</sup>/h**, heat recovery efficiency up to 78%.

■ **Description**

The air handling units VUT 300 V(H) mini EC Comfo are the fully-featured ventilation units that ensure air filtration, fresh air supply and stale air extract. The thermal heat energy contained in extract air is transferred to supply air through the plate cross-flow heat exchanger. The units are suitable for integration into various ventilation and air conditioning networks. The units are featured with compact size, low energy demand and low noise due to EC motor technology. Compatible with round Ø 125 mm air ducts.

■ **Modifications**

**VUT 300 V mini EC Comfo** series are energy saving Air Handling Units (AHU) equipped with intake and exhaust centrifugal fans powered by EC motors, cross-flow heat recovery elements and air filters. Vertical duct connections.

**VUT 300 H mini EC Comfo** series are energy saving

Air Handling Units (AHU) equipped with supply and exhaust centrifugal fans powered by EC motors, cross-flow heat recovery elements and air filters. Horizontal duct connections.

■ **Casing**

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

■ **Filters**

Supply and extract air flows are purified through two panel filters with filtering class G4.

■ **Fans**

High-efficient electronically-commutated motors with external motor and impellers with backward curved blades. Such motors are the most state-of-the-art energy-saving solution. EC motors are featured

with high performance and total speed controllable range. High efficiency reaching 90% is the premium advantage of the electronically-commutated motors.

■ **Heat exchanger**

Plate cross-flow heat exchanger made of aluminium. The heat exchanger may be replaced with a summer block when heat recovery is not required. The drain pan under the heat exchanger block ensures condensate removal.

■ **Control and automation**

The units are equipped with integrated automation and a multifunctional control panel with LED indication (P3/010 T).

The delivery set includes a signaling cable for connection with the control panel.

The integrated freeze protection system is designed to prevent the heat exchanger freezing at low temperatures. In case of freezing danger indication by the temperature sensor the supply fan is turned off to let warm extract air flow pass by the heat exchanger and warm it up. After freezing danger is no longer actual, the supply fan is turned on and the unit reverts to the standard operation mode.

Control panel functions:

- ▶ Turning the unit on/off.
- ▶ Ventilation mode selection: minimum, medium, maximum.
- ▶ Minimum mode (MIN) setup in the range of 13 pre-set speeds. The medium speed (NORMAL) is automatically set 80 m<sup>3</sup>/h above the minimum speed, but it does not exceed the maximum (MAX) speed.
- ▶ Filter replacement indication.

■ **Mounting**

The unit is designed for mounting on the floor or fixing to the wall with a bracket. Access for the unit servicing and filter cleaning on the front swivel panel side.

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

Series	Rated air capacity [m <sup>3</sup> /h]	Spigot modification	Type	Motor type	Control type	Service side
<b>VENTS VUT</b>	300	<b>V</b> – vertical <b>H</b> – horizontal	mini	<b>EC</b> – synchronous electronically commutated motor	<b>Comfo</b>	<b>L</b> – left <b>R</b> – right

**Accessories**



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**Offered options to the units**

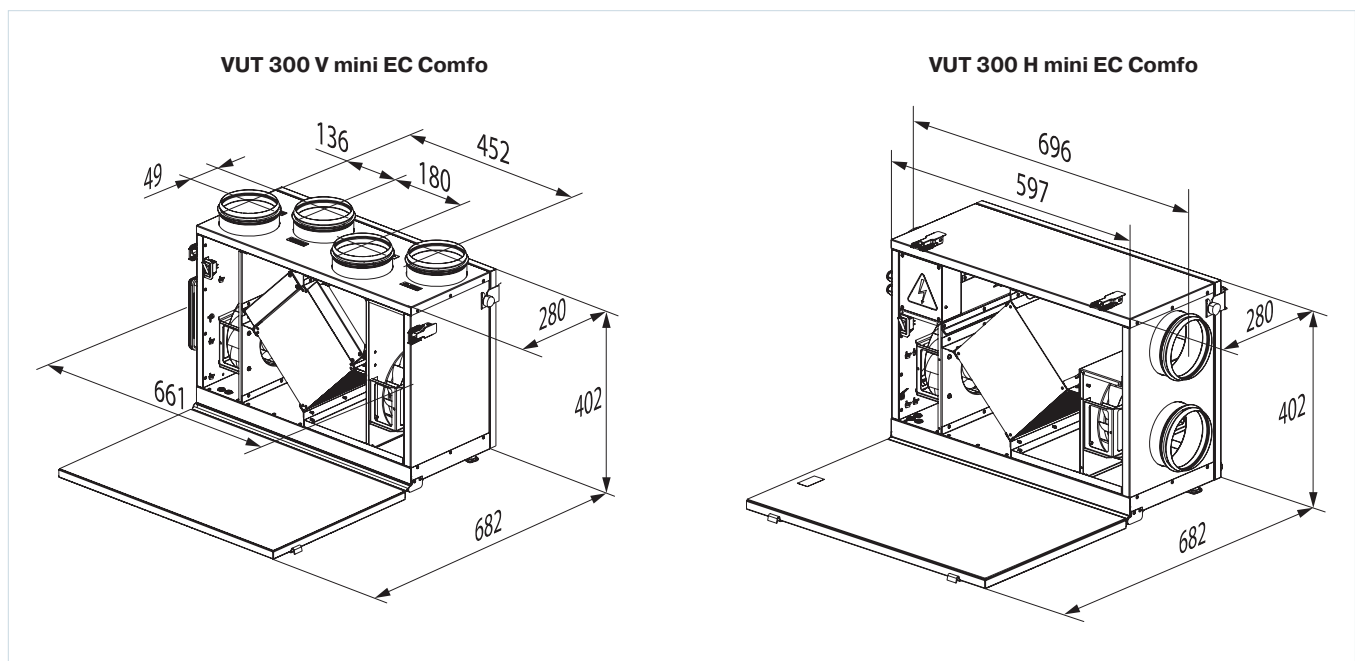


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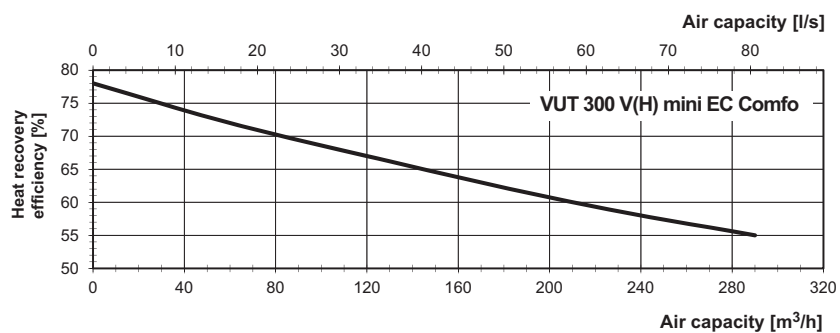
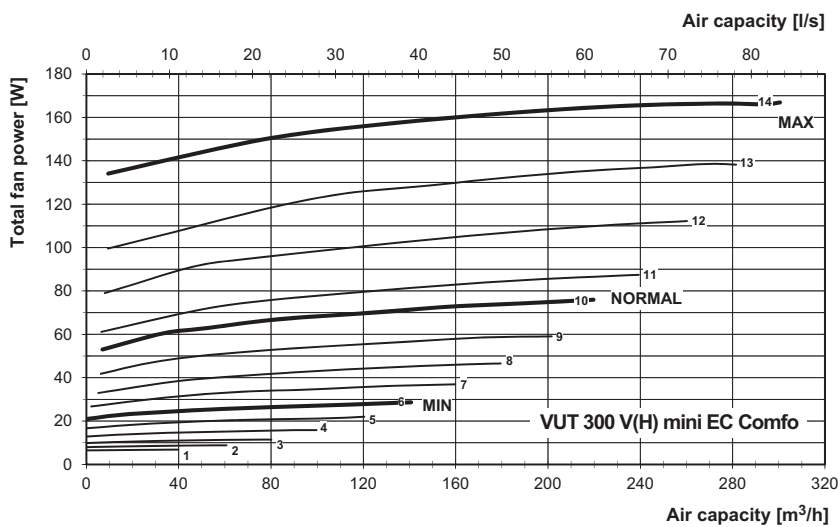
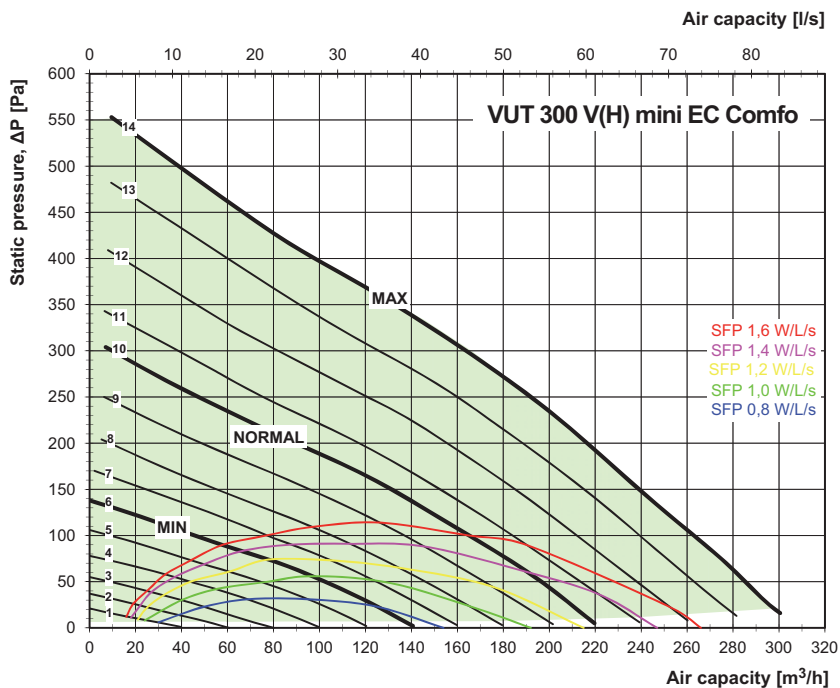
**Technical data:**

	VUT 300 V mini EC Comfo	VUT 300 H mini EC Comfo
Unit supply voltage, 50 Hz [V]		1~ 230
Total unit power [W]		167
Total unit current [A]		1,13
Max. air capacity [m <sup>3</sup> /h]		300
RPM [min <sup>-1</sup> ]		3200
Sound pressure level at 3 m [dB(A)]		28-47
Transported air temperature [°C]		from -25 up to +60
Casing material		polymer coated steel
Insulation		20 mm mineral wool
Filter*: extract supply	G4 (order code of replaceable filter SF VUT 300 V (H) mini EC Comfo G4) / G4 / F7(EU7) (order code of replaceable filter SF VUT 300 V (H) mini EC Comfo G4) / SF VUT 300 V (H) mini EC Comfo F7)	
Summer block*	order code VL VUT 300 V (H) mini EC Comfo	
Connected air duct diameter [mm]		Ø125
Weight [kg]		23
Heat recovery efficiency		up to 78%
Heat exchanger type		cross-flow
Heat exchanger material		aluminium

\* option: replaceable filter, summer block

**Overall dimensions:**

VUT 300 V (H) mini EC Comfo



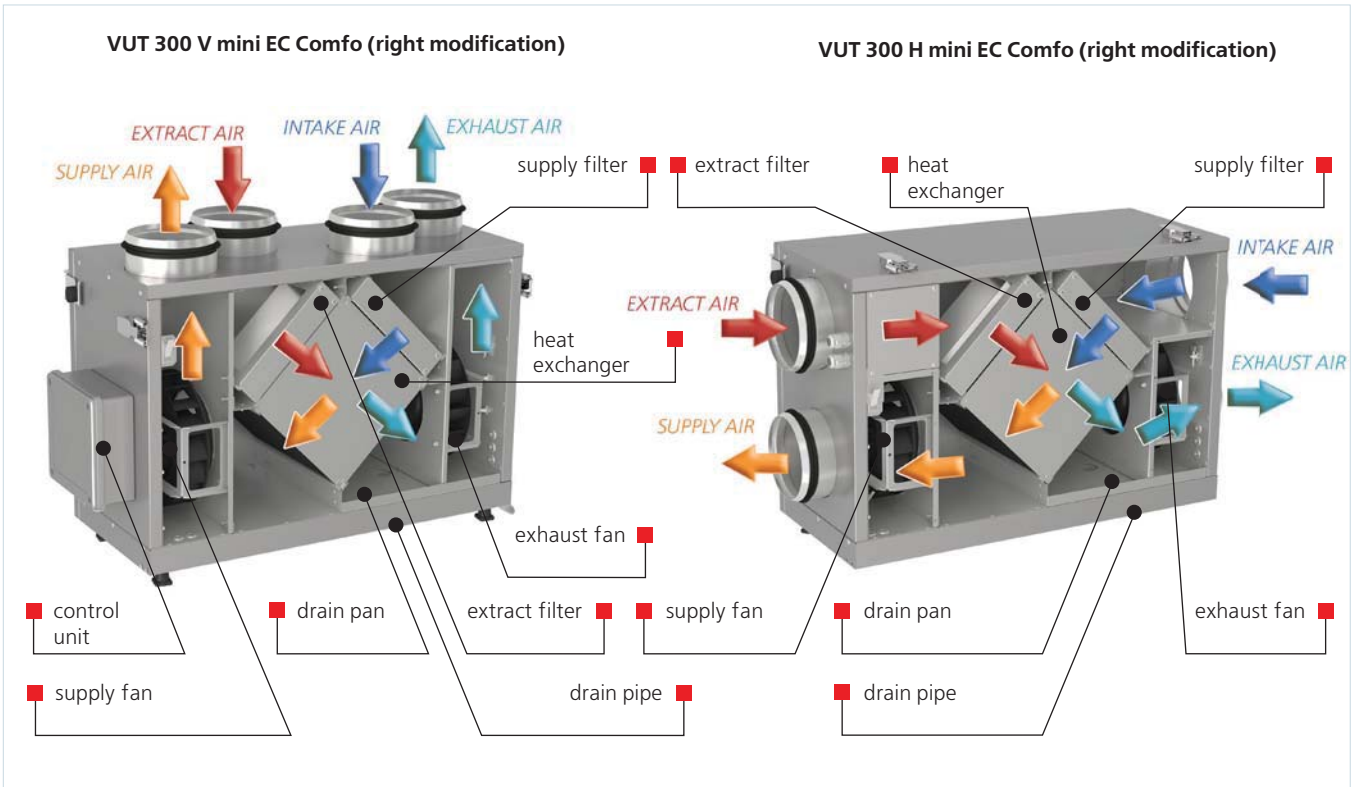
VUT 300 H mini EC Comfo

Sound-power level		Octave-frequency band [Hz]									
		Hz	Tot.	63	125	250	500	1000	2000	4000	8000
$L_{WA}$ to inlet	dB(A)	52	31	48	47	35	41	37	34	20	
$L_{WA}$ to outlet	dB(A)	59	39	54	58	53	47	45	37	26	
$L_{WA}$ to environment	dB(A)	34	9	24	31	29	17	16	2	0	

VUT 300 V mini EC Comfo

		Hz	Tot.	63	125	250	500	1000	2000	4000	8000
$L_{WA}$ to inlet	dB(A)	53	30	50	48	37	41	39	32	20	
$L_{WA}$ to outlet	dB(A)	60	39	54	55	54	45	45	33	25	
$L_{WA}$ to environment	dB(A)	34	5	25	30	29	21	14	6	2	

**Unit design:**



VUT 300 v(h)  
MINI EC  
COMFO  
AIR HANDLING UNIT WITH  
HEAT RECOVERY SERIES

**Application example:**

