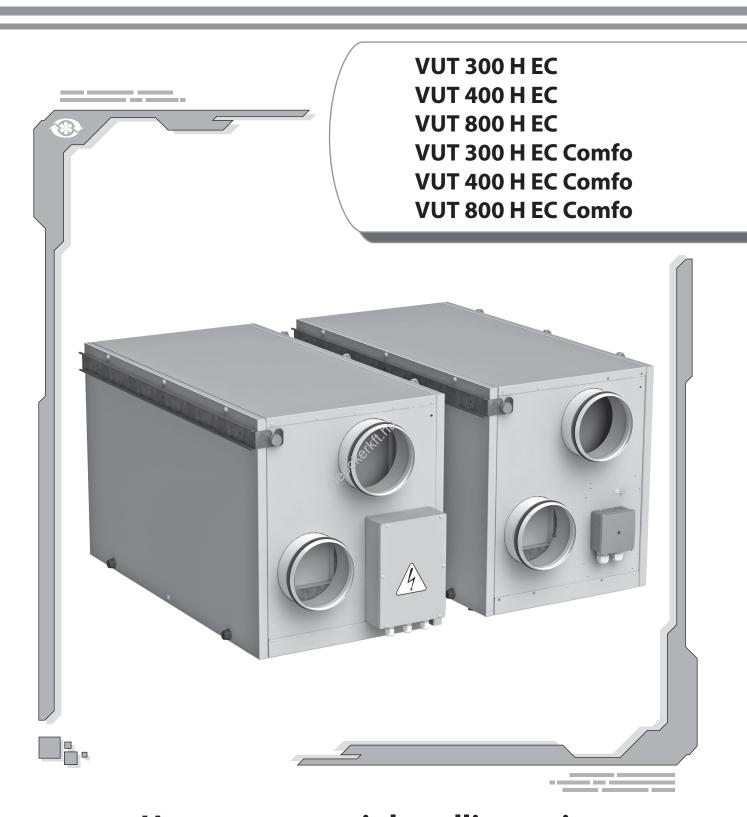
USER'S MANUAL



Heat recovery air handling unit





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SAFETY REQUIREMENTS

- Read the user's manual carefully prior to the operation and installation of the heat recovery air handling unit, hereinafter the
- Fulfil the user's manual requirements as well as provisions of all the applicable local and national construction, electrical and technical codes and standards.
- The warnings contained in the user's manual must be considered most seriously since they contain vital personal safety information.
- Failure to follow the safety regulations may result in an injury or unit damage.
- Read the manual carefully and keep it as long as you use the unit.
- · While transferring the unit control the user's manual must be turned over to the receiving operator.

Symbol legend used in the manual:

\triangle	WARNING!
\otimes	DO NOT!

UNIT MOUNTING SAFETY PRECAUTIONS

(3)	The unit must be disconnected from the power supply prior to every installation or repair operation.	누	The unit must be grounded!
Ommunication of the	The unit must not be operated outside the temperature range stated in the user's manual or in aggressive or explosive environments.	ON ZN	Do not use damaged equipment or conductors to connect the unit to power mains.
	While installing the unit follow the safety regulations specific to the use of electric tools.		Unpack the unit with care.
	Do not change the power cord length at your own discretion. Do not bend the power cord. Avoid damaging the power cord.		Do not position any heating devices or other equipment in close proximity to the unit power cord.

	Do not touch the unit speed controller or the control panel with wet hands. Do not carry out the unit maintenance with wet hands.		Do not wash the unit with water. Protect the unit electric parts from water ingress.
	Use the unit only as intended by the manufacturer. Do not connect a clothes dryer or other similar equipment to the ventilation system.		Do not put any water containers on the unit. i.e. flower vases.
	Do not sit on the unit and do not put any objects on it.	OFF	Disconnect the unit from power supply prior to maintenance.
	Do not let children operate the unit.		Do not damage the power cable while operating the unit. Do not put any objects on the power cable.
	Keep combustible gases and inflammable products away of the unit.		Do not open the operating unit.
ON OFF	In case of unusual sounds, smoke disconnect the unit from power supply and contact the service centre.		During long-term operation of the unit periodically check the mounting for reliability.
	Do not block the air duct when the unit is on.		Do not let air flow from the unit be directed to the open flame devices or candles.



INTRODUCTION

This user's manual includes technical description, operation, installation and mounting guidelines, technical data for the heat recovery air handling unit VENTS VUT ... H EC and VENTS VUT...H EC Comfo.

USE

The heat recovery unit is designed to save heat energy by means of heat energy recovery and is one of the energy saving components used in buildings and premises. The unit is a component unit and is not designed for stand-alone operation.

The unit enables continuous air exchange by means of mechanical ventilation in private residences, offices, hotels, cafes, conference rooms as well as recovery of the waste heat energy contained in the extract air to warm up the clean supply air.

The unit is designed for wall mounting.

The unit is rated for continuous operation always connected to power mains.

Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, coarse dust, soot and oil particles, sticky substances, fibrous materials, pathogens or any other harmful substances.



THE UNIT IS NOT INTENDED TO BE USED BY CHILDREN, PHYSICALLY OR MENTALLY DISABLED PERSONS, PERSONS WITH SENSORY DISORDER, PERSONS WITH NO APPROPRIATE QUALIFICATION.

ANY OPERATIONS WITH THE UNIT MUST BE PERFORMED ONLY BY PROPERLY QUALIFIED PERSONNEL AFTER THE APPROPRIATE SAFETY BRIFFING

THE UNIT INSTALLATION SITES MUST PREVENT ACCESS BY UNATTENDED CHILDREN.

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DELIVERY SET

- Unit 1 item
- User's manual 1 item
- Speed controller (for VUT H EC) 1 item
- Control panel (for VUT H EC Comfo) 1 item
- Power cable (for VUT H EC Comfo) 1 item

DESIGNATION KEY

VUT XXX - X H EC Comfo

Unit control:

R-1/010 speed controller
 Comfo – control panel with LCD display

Motor type:

EC - electronically commutated

Spigot orientation:

H - horizontal

Connected air duct diameter:

1 – 150 mm

2 - 160 mm

Rated air capacity [m³/h]

Unit type:

VUT - heat recovery ventilation



TECHNICAL PARAMETERS

The unit is designed for indoor application with the ambient temperature ranging from +1 °C up to +40 °C and relative humidity up to 80%.

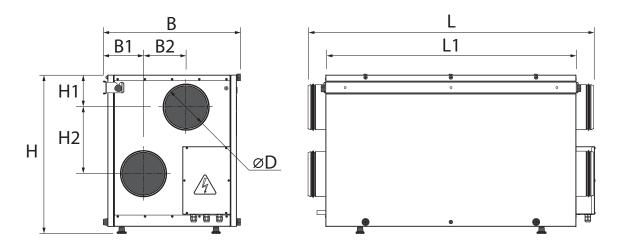
The transported air temperature range is from $\,$ -25 $^{\circ}\text{C}$ up to +50 $^{\circ}$ C.

The unit is classified as a class I electric appliance.

Hazardous parts access and water ingress protection standard:

- Unit motors IP 44;
- Unit assembly connected to air ducts IP 22.

The unit design is regularly improved, so some models may slightly differ from those ones described in this manual.



UNIT OVERALL DIMENSIONS [MM]

	VUT 300-1 H EC VUT 300-1 H EC Comfo	VUT 300-2 H EC VUT 300-2 H EC Comfo	VUT 400 H EC VUT 400 H EC Comfo	VUT 800 H EC VUT 800 H EC Comfo
ØD	150	160	200	250
В	4	455	570	840
B1	1	130	165	215
B2	140		230	390
Н	525		540	660
H1	1	105	135	160
H2		220	225	295
L	Ġ	945	925	1010
L1	3	830	830	890

TECHNICAL DATA

Supply voltage,	50/60 Hz [V]	1 ~ 230				
Max. unit power	[W]	140 210 334				
Total unit curren	t [A]	1,2 1,6 2,2				
Air capacity [m³/h	n]	300	400	810		
RPM [min ⁻¹]		2300	2600	2860		
Noise level, [dB(/	A)]	24-45 30-45				
Max. transported	d air temperature [°C]	-25 up to +60				
Casing material		Aluzinc				
Insulation			25 mm min. wool			
Elle	supply		G4			
Filter:	extract		G4; (F7)*			
Weight [kg]		36 67 83				
Heat recovery ef	ficiency [%]	86 up to 98 81 up to 98				
Heat exchanger	type	Counter-flow				
Heat exchanger	material	Polystyrene				

^{*}option



DESIGN AND OPERATING LOGIC

The unit has the following operating logic:

Warm stale extract air from the room flows to the unit, where it is filtered, then air flows through the heat exchanger and is exhausted outside by the extract fan through the exhaust air duct.

Clean cold air from outside is moved by the supply fan to the supply filter. Then filtered air flows through the heat exchanger and is moved by the supply filter to the room.

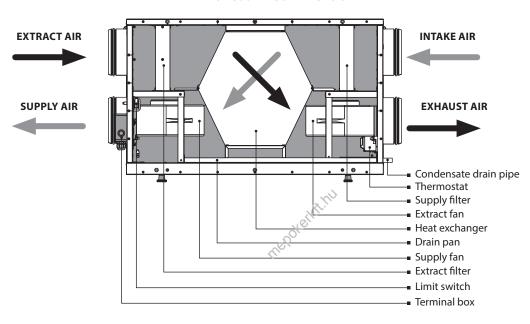
Heat energy of warm extract air is transferred to clean intake fresh air from outside and warms it up. Heat recovery technology minimizes heat energy losses, energy demand and operating costs for air heating.

The heat exchanger freeze protection function for the VUT HEC unit is implemented with a freeze protection thermostat and for the unit VUT H EC Comfo is implemented with a temperature sensor installed in the exhaust air duct.

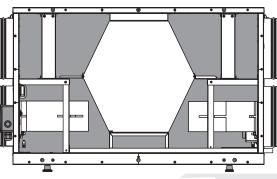
In case of a freezing danger the supply fan is turned off and the heat exchanger is warmed up with warm extract air flow.

To set the thermostat temperature set point set the temperature control knob into a respective position. The recommended thermostat set point is +3 °C (factory setting).

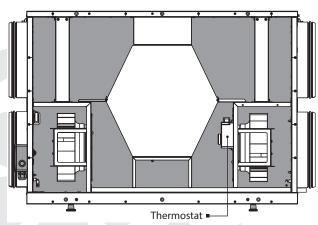
VUT 300 H EC SERVICE SIDE VIEW





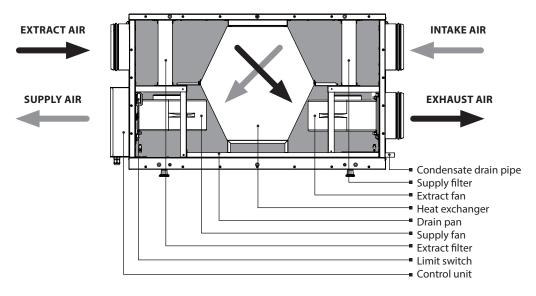


VUT 800 H EC SERVICE SIDE VIEW



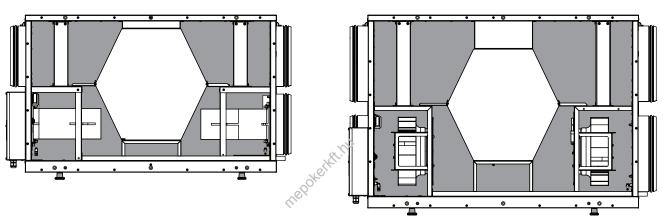


VUT 300 H EC COMFO SERVICE SIDE VIEW



VUT 400 H EC COMFO SERVICE SIDE VIEW

VUT 800 H EC COMFO SERVICE SIDE VIEW



MOUNTING AND SET-UP

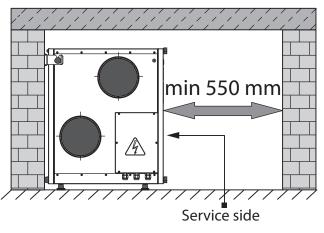
MINIMUM SERVICE ACCESS TO THE UNIT

While mounting the unit provide the minimum service access for service and repair. The minimum service distances from the unit to the walls are shown in the figure below.

VUT ... H EC

min 550 mm
Service side

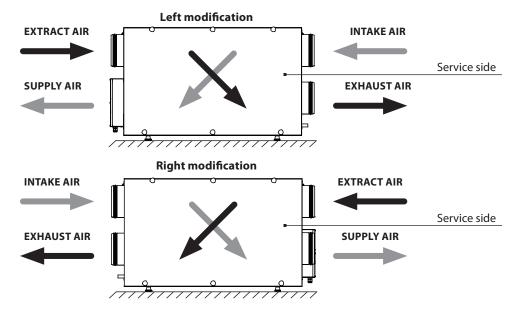
VUT ... H EC Comfo





UNIT MODIFICATIONS

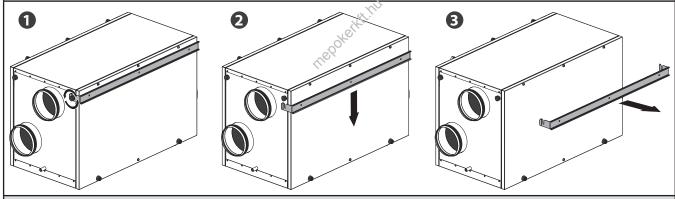
The unit service side may be changed for mounting convenience and for keeping minimum mounting and service distances. The instruction on service side change is shown below.



SERVICE SIDE CHANGE

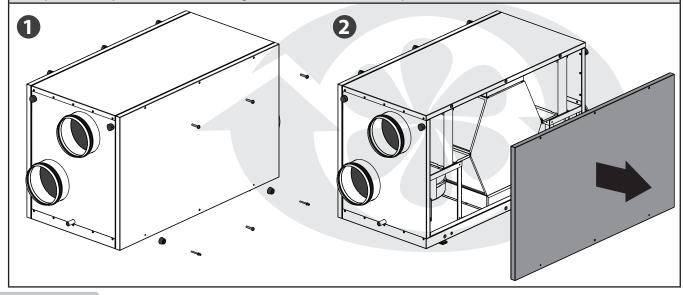
1. Dismantling the mounting bracket on the current service side:

- 1. Loosen the two triangular retaining the bracket.
- 2. Pull the bracket downwards to withdraw it from the slots.
- 3. Remove the bracket and tighten the triangular screws.



2. Dismantling the panel on the current service side:

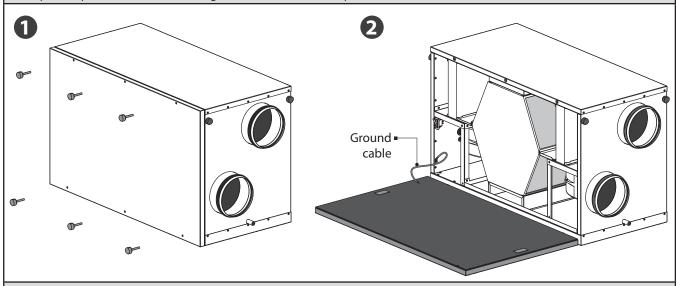
- 1. Remove 6 screws.
- 2. Open the back panel and disconnect the ground cable. Remove the back panel.





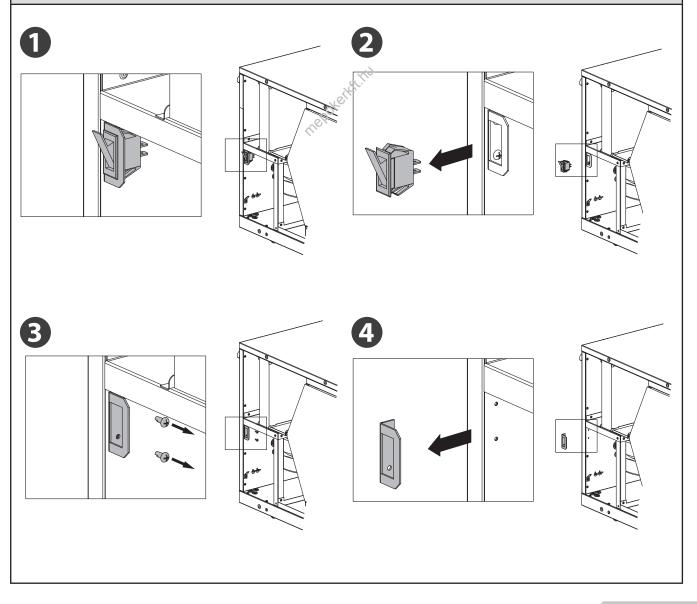
3. Removing the service panel on the current service side:

- 1. Remove the 6 triangular screws.
- 2. Open the panel and disconnect the ground cable. Remove the panel.



4. Removing the limit switch on the current service side:

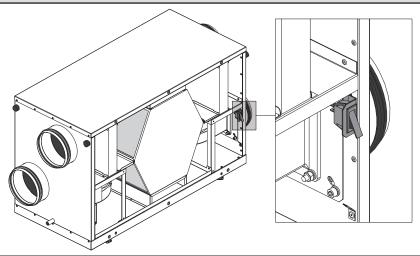
- $1. \ Remove \ the \ spade \ terminals \ to \ detach \ the \ limit \ switch \ from \ the \ wires.$
- $2. \, \text{Press the fixing lugs to remove the limit switch from the mounting bracket.}$
- 3. Remove the two screws that retain the limit switch holder.
- 4. Remove the holder from the unit.





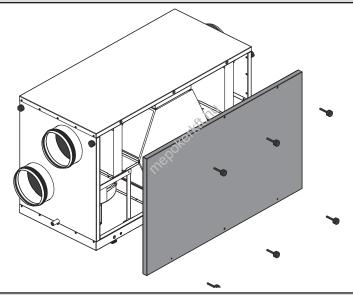
5. Mounting the limit switch on the selected service side:

- 1. Fix the limit switch holder on other side of the unit with two screws.
- 2. Fix the limit switch in the holder.
- 3. Take on the spade terminals to connect the limit switch to the wires.

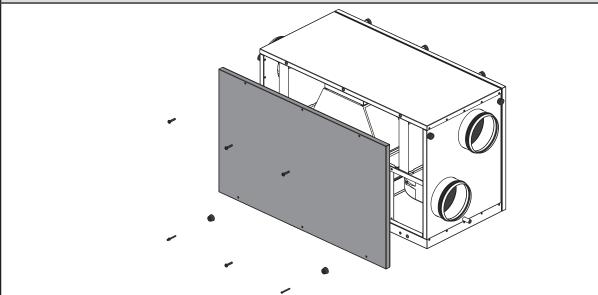


6. Mounting the panel on the selected service side:

- 1. Connect the ground cable to the service panel on the other side of the unit.
- 2. Install the panel and fix it with the six triangular screws.



7. Installing the back panel: Install the panel and fix it with six screws.

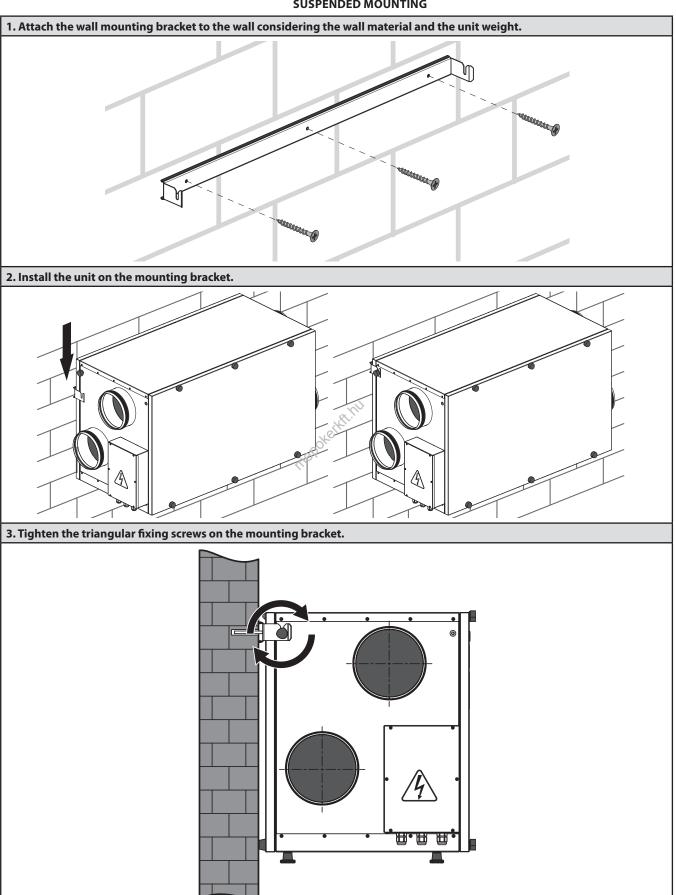




The unit design enables suspended mounting, wall mounting and mounting on the floor. The unit is suspended to the ceiling using belts (not included into the delivery set). For wall mounting use a special mounting bracket and for mounting on the floor use special levelling supports. The mounting instructions are give below.

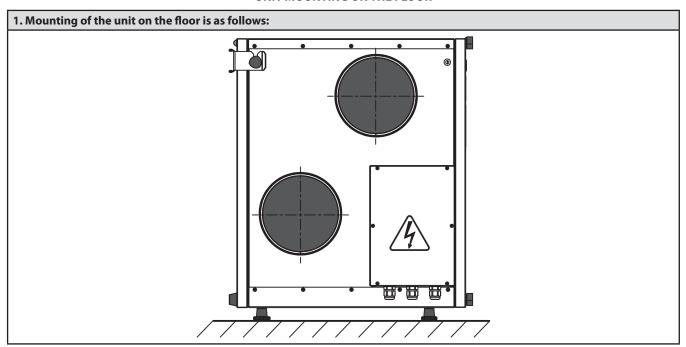
Note: wall mounting is not applicable for the VUT 800 H EC and VUT 800 H EC Comfo units.

SUSPENDED MOUNTING



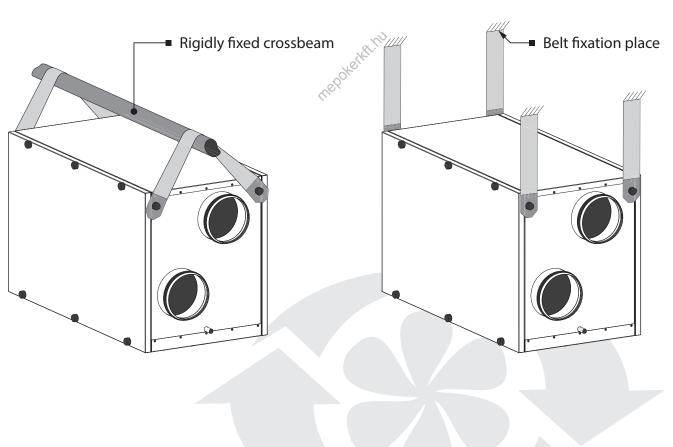


UNIT MOUNTING ON THE FLOOR



SUSPENDED MOUNTING

The unit is suspended with the belts that must be selected to match the unit weight. The belt must have an opening or a clamp to fix the triangular screws to the unit. The suspended mounting examples are shown below.

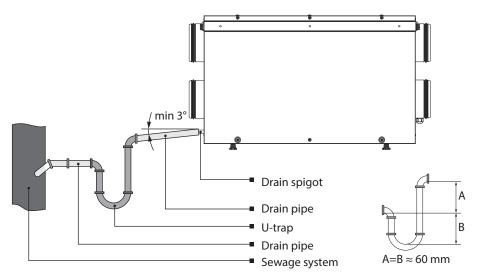




CONDENSATE DRAINAGE

The condensate drain pan has a pipe to evacuate the condensed fluid outside the unit.

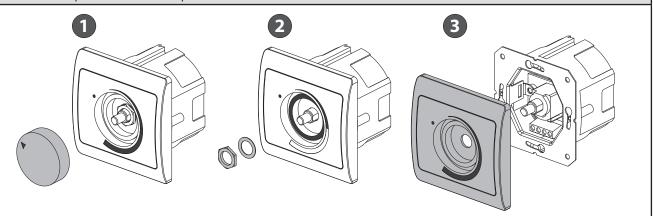
Connect the pipe, U-trap (not included in delivery package) and sewage collection system with metal, plastic or rubber connecting pipes. The pipe slope downwards must be at least 3°. Fill up the system with water before connecting the unit to the power mains! The U-trap must be filled with water at all times during the unit operation. Make sure that the water flows freely into the sewage collection system or otherwise condensed water may build up in the unit during the heat exchanger operation, which may damage the equipment and result in water outflow to the premise. The condensate drainage system is designed for normal operation in premises with air temperatures above 0 °C. If the expected air temperatures are below 0 °C the condensate drainage system must be equipped with heat insulation and pre-heating facilities.



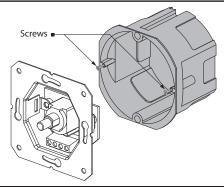
VUT H EC SPEED CONTROLLER MOUNTING

1. Disconnect the front panel from the speed controller:

- 1. Remove the control knob.
- 2. Remove the retaining nut that fixes the front panel.
- 3. Remove the speed controller front panel.

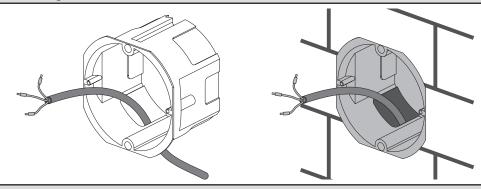


2. Loosen the two screws to disconnect the junction box from the speed controller. Disconnect the control cable from the speed controller. Remember the colour marking of the wires and the terminals to enable their correct connection after completing of the speed controller mounting.

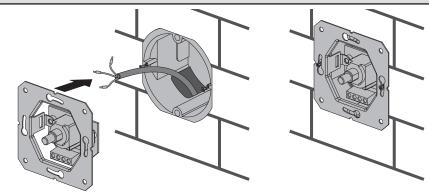




3. Insert the junction box in the wall. The cable from the delivery set may be replaced with a cable of required length, type 3x0.5 mm2, max. cable length 10 m.

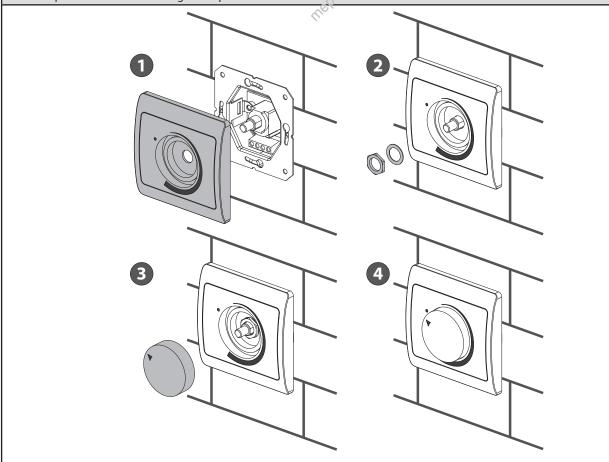


4. Connect the cable to the speed controller following the wiring diagram at page 16. Install the speed controller inside the junction box using screws.



5. Mounting the speed controller front part:

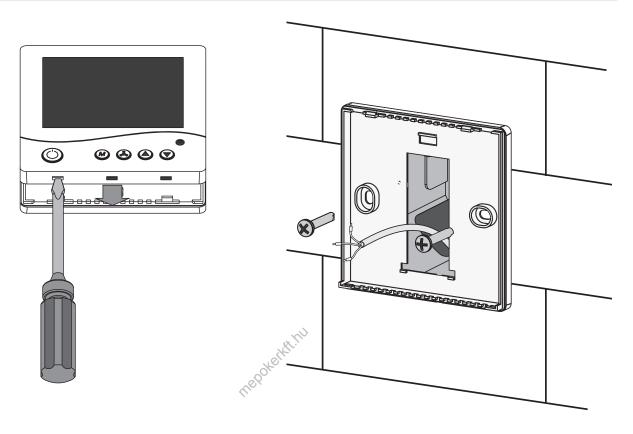
- 1. Insert the speed controller front panel:
- 2. Fix the front panel with a washer and a nut.
- 3. Install the control knob.
- 4. The speed controller mounting is completed.





VUT H EC COMFO CONTROL PANEL MOUNTING

- 1. Use a screwdriver to undo the clips in the lower part of the control panel through the access holes.
- 2. Remove the back cover.
- 3. Disconnect the cable from the terminal block.
- 4. Lay the cable in the wall to the panel installation site.
- 5. Attach the panel back cover to the wall.
- 6. Connect the cable to the terminal block.
- 7. Clip the panel front part in place.



ELECTRICAL CONNECTIONS



DISCONNECT THE UNIT FROM THE POWER SUPPLY PRIOR TO ANY WORK ON THE UNIT!

CONNECT THE UNIT TO A PROPERLY INSTALLED AND GROUNDED SOCKET.

ANY TAMPERING WITH THE INTERNAL CONNECTIONS IS PROHIBITED AND WILL VOID THE WARRANTY.

The unit is rated for connection to single-phase ac 230 V / 50 Hz power mains.

Connect the unit to power mains through the external automatic circuit breaker installed at the power input and integrated into house cabling. The circuit breaker location must provide quick access for emergency shutdown of the unit.

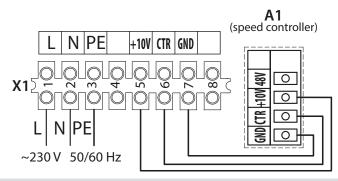
The circuit breaker trip current must exceed the current consumption of the unit. The recommended circuit breaker trip current is 2 A and the recommended minimum wire cross section is 0.75 mm2.

The given cross sections are for reference only. The wire section selection must be selected in consideration of the wire type, maximum permissible wire heating, insulation, length and installation method, either open installation, cable channel installation or in-wall wiring. Use copper wires only.

Ground the unit in compliance with the local electric standards!



VUT... H EC SPEED CONTROLLER WIRING DIAGRAM



VUT... H EC COMFO UNIT WIRING DIAGRAM

The unit is designed for connection to 230 V / 50/60 Hz single-phase AC mains. The unit has a power cord with a Euro plug to connect to a grounded IEC 60884-1 compliant socket shown as XP1. The power cord is pre-wired to the X1 terminal block.

The VUT H EC Comfo unit enables the following external connection options to the X3 terminal block:

· PK contact for automatic fire extinguishing system.

While connecting the automatic fire extinguishing system contact remove the jumper between the terminals 1 and 2. In this case the connection relies on a normally closed «dry» contact which opens the unit control circuit on fire-triggered actuation from the central fire alarm system board.

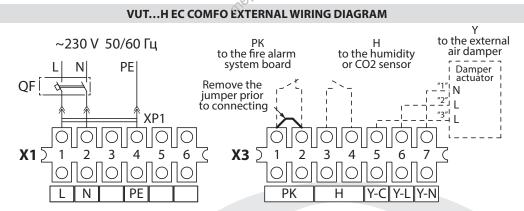
· H contact for humidity sensor or CO2 sensor connection

Connect the humidity or CO2 sensor to the terminals 3 and 4. The connection relies on a normally closed «dry» contact. Once closed the unit switches to maximum speed.

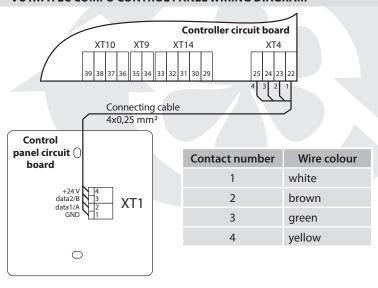
• Y-N, Y-L, Y-C contacts for connection of 3-point control air damper

Connect the air damper actuator to the terminals 5, 6 and 7. The same contacts can be used for parallel connection of one more damper.

Any extra contacts are connected according to the wiring connection diagram.



VUT... H EC COMFO CONTROL PANEL WIRING DIAGRAM



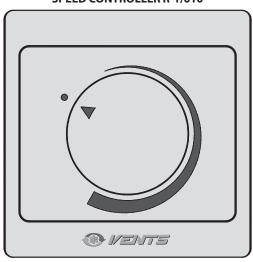


UNIT CONTROL

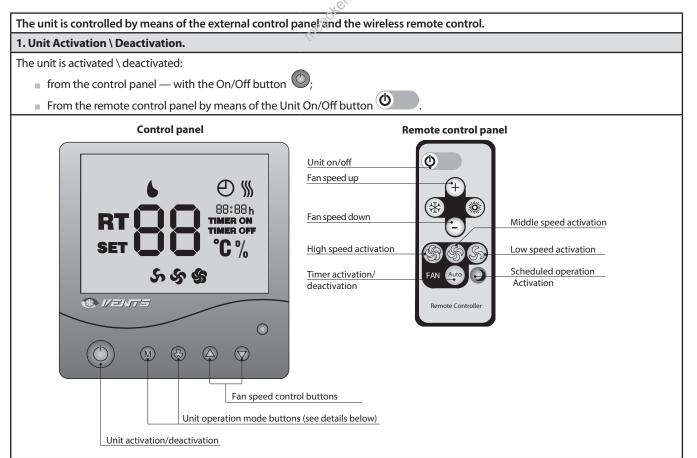
VUT... H EC CONTROL

Air flow is controlled with the P-1/010 speed controller. Set the control knob to a respective speed position to activate the required unit speed. The speed controller view is shown below.

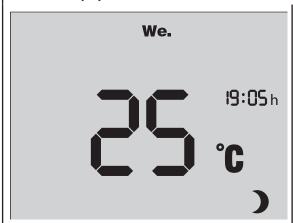
SPEED CONTROLLER R-1/010



VUT... H EC COMFO CONTROL



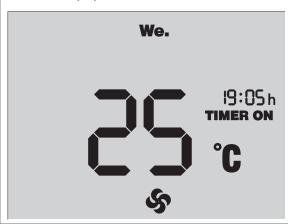
Panel Display in OFF mode



When the unit is off the control panel display indicates:

- Room temperature
- Day
- Time
- Deactivated status

Panel display in ON mode



When the unit is on the control panel display indicates:

- Room temperature
- Day
- ■Time
- Fan speed status S S S:
- Timer status
- Timer operation is shown by the TIMER ON indicator.
- When the timer is switched off the TIMER OFF indicator goes on.

2. Fan speed control.

Fan speed control logic:

- Control panel: Press the button to increase the speed or press the button to reduce the speed cyclically (i.e. low-middlehigh speed);
- Remote control: Press the + button to increase the speed or press the button to reduce the speed cyclically (i.e. lowmiddle-high speed);
- Remote control: Press the Sutton to select low speed, press the button to select middle speed or press the button to activate high speed correspondingly.

The control panel display shows the current fan speed status:

Glowing indicator — low speed mode;

Glowing indicator — middle speed mode;

Glowing indicator — high speed mode.

3. Timer.

The timer enables automatic switching of the fans to the maximum speed with automatic reset after a set time period from 20 to 60 minutes.

Timer activation / deactivation:

Control panel: to activate the timer press and hold the button and then press the button. A single pressing sets the timer to 20 minutes while each subsequent pressing increases the timer setting in 10 minute increments. The maximum timer setting is 60

minutes. The timer indicator displays the timer countdown instead of the current time. To deactivate the timer press and hold the button for 3 seconds.

Remote control: to activate the timer for 20 minutes press the button. To deactivate the timer switch the unit off.

4. Heat Exchanger Freezing Protection.

If the exhaust air temperature downstream of the heat exchanger falls below +3 °C the supply fan shuts down. When the air temperature rises above the +3 °C, the unit reverts to set operation mode.



5. Unit Parameter Setup.



CHANGING THE UNIT SETTINGS WILL DISCARD THE FACTORY SETTINGS! FAN SPEED CAN ONLY BE ADJUSTED FROM THE CONTROL PANEL!

Fan Speed Setup Mode.

At the setup stage each of the low, medium and high speed settings can be attributed a specific supply and extract fan performance. To enter the fan speed setup mode switch off the unit, then press and hold the button on the control panel and hold button for 3 seconds.



Upon entering the setup mode the panel display screen will show the SET and % indicators.

Set the fan speed as necessary using the and buttons.

While the speed stage is being set the display shows the currently selected speed for a speed stage.

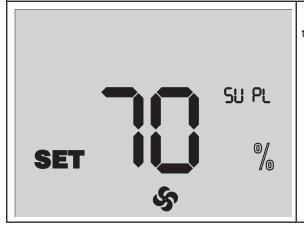
To change the supply fan power press and hold the button, then press the button to increase the speed or press the button to decrease it. Each pressing of the and buttons increases or reduces the supply fan power in 1 % increments.

Press the button to display the current supply fan speed in % of the maximum air capacity.

■ To change the exhaust fan power press the button and while holding it use the button to increase the power or the button to decrease the power. Each press of the and buttons increases or reduces the exhaust fan power in 1 % increments.

Press the button to display the current extract fan speed.

To exit the fan speed setup mode and save the changes press and hold the button. The remote control cannot be used to adjust the fan speed.



To revert to the factory settings enter the fan speed setup mode, press the and buttons simultaneously and hold them for 3 seconds.

Factory Fan Speed Settings:

Low speed 1 — 40 %

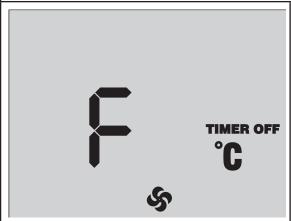
Middle speed — 70 %

High speed — 100 %



6. Filter Replacement Indication.

When the filters have reached the end of their service life of 3000 hours the operating temperature indicator normally displayed on the control panel is replaced with the indicator prompting filter replacement or cleaning.



■ In case of filter replacement indicator switch off the unit by pressing the button and disconnect it from power supply. Replace the filters according to the sequence given in the «Technical Maintenance» section, page 21.

Connect the unit to the power mains and switch it on by pressing the button on the control panel or the (O)) button on the remote control. Then press the and buttons synchronously to reset the motor meter.

7. Date and Time Setup.

- Switch the unit off.
- To enter the date and time setup mode press and hold the button, then press the button on the control panel.

While holding the button select the parameter for adjustment by using the and buttons. The parameter being adjusted is blinking.

The date and time parameters are ordered as follows:

- 1. Minutes;
- 2. Hours;
- 3. Day;
- 4. Date;
- 5. Month;
- 6. Year
- Set the required parameter value on the control panel using the and buttons.
- To exit the date and time setup mode press the button

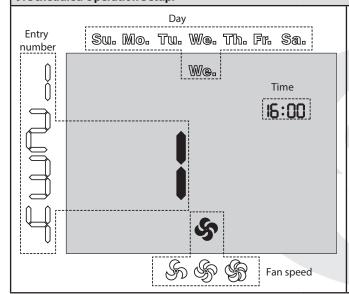
8. Scheduled Operation Mode.

■ To activate the scheduled operation mode press and hold the button and then press the button on the control panel.

The scheduled operation mode is confirmed by the indicator glowing on the display screen.

- To deactivate the scheduled operation mode press and hold the button, and then press the button on the control panel.
- The scheduled operation mode can be activated or deactivated using the → button on the remote control.
- The timer settings will always prevail over the scheduled operation parameters.

9. Scheduled Operation Setup.



There are four entries available for each day which may contain the time for unit changeover to a specific fan speed as well as unit turning ON/OFF.

To access the scheduled operation settings, switch off the unit using the button on the control panel or the button on the remote control.

Press and hold the button, then press the button on the control panel.



- To select the scheduled operation setup mode parameters press and hold the button and use the and buttons to select the required parameter.
 - Use the and buttons to set the parameter values. Scheduled operation setup mode parameters:
 - Entry number there are four entries for each day.
 - Week day day setting.
 - Fan speed fan speed setting for the current entry.
 - Time time setting for the current entry.
- To copy the entries to the following day press and hold the button, then press . Please note that copying entries from Sunday onto Monday is not possible.
- To exit the scheduled operation setup mode press the button on the control panel or the button on the remote control.

A sample schedule programming sequence is given in the table below.

SAMPLE PROGRAMMING SEQUENCE

	Entry number							
	1 2		2	3		4		
Day	Start time	Mode	Start time	Mode	Start time	Mode	Start time	Mode
Mo.	07:00	Speed 2	08:00	Speed 1	17:00	Speed 2	22:00	Speed 1
Tu.	07:00	Speed 2	08:00	Speed 1	17:00	Speed 2	22:00	Speed 1
We.	07:00	Speed 2	08:00	Speed 1	17:00	Speed 2	22:00	Speed 1
Th.	07:00	Speed 2	08:00	Speed 1	17:00	Speed 2	22:00	Speed 1
Fr.	07:00	Speed 2	08:00	Speed 1	17:00	Speed 2	22:00	Speed 1
Sa.	10:00	Speed 2	12:00	Speed 2	17:00	Speed 2	23:00	Speed 1
Su.	10:00	Speed 2	12:00	Speed 2	17:00	Speed 2	23:00	Speed 1

10. Alarms.

In case of an emergency the unit switches off while the alarms are displayed on the control panel display. The list of possible alarms is given in table below.

ALARM INDICATION



ALARM	ALARM REASON	INDICATOR	FAULT HANDLING
Function much obtain access demand	Short circuit RT		Courte at the manifestance as sometime
Freezing protection sensor damage	Breakout	RT W	Contact the maintenance service.



MAINTENANCE



The unit must undergo technical maintenance 3 to 4 times a year. Maintenance includes general cleaning of the unit and the following operations:

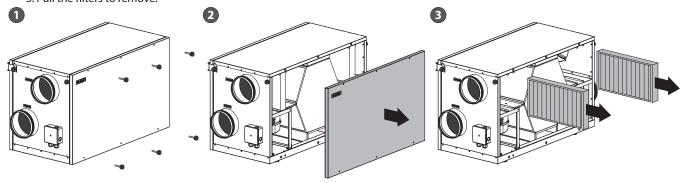
1. Filter maintenance.

Contaminated filters increase air resistance thus impairing supply air delivery into the premises.

The filters should be cleaned as they get dirty, but at least 3-4 times a year. Use a vacuum cleaner to remove the contamination or use a new filter. New filters can be purchased from your Seller.

FILTER REMOVAL

- 1. Remove the six triangular screws.
- 2. Take off the side panel.
- 3. Pull the filters to remove.

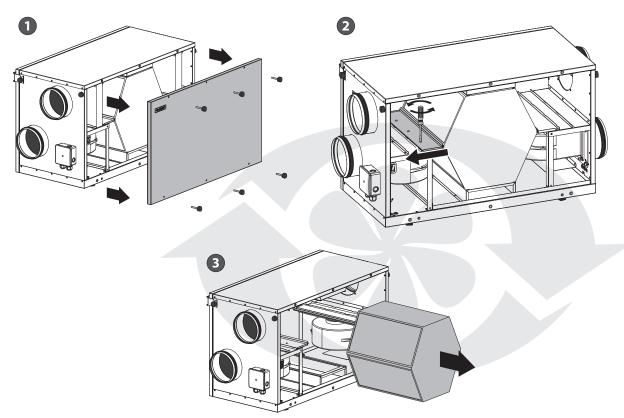


2. Heat exchanger maintenance (once per year).

Даже при регулярном техобслуживании фильтров на блоке рекуператора могут накапливаться пылевые отложения. Для поддержания высокой эффективности теплообмена необходимо регулярно очищать рекуператор. Для очистки рекуператора извлеките его из установки и промойте его теплым водным раствором ней трального моющего средства, после чего сухой рекуператора вставьте в установку.

HEAT EXCHANGER REMOVAL

- 1. Remove the six triangular screws and take off the side panel.
- 2. Loosen the three screws of the retaining plate. Pull the plate aside.
- 3. Pull the heat exchanger to remove.





3. Fan maintenance (once a year).

Even regular technical maintenance of the filters may not completely prevent dirt accumulation in the fans which reduces the fan capacity and impairs supply air delivery into the premises.

Clean the fans with a soft cloth or a brush. Do not use water, aggressive solvents or sharp objects as they may damage the impeller.

4. Condensate system maintenance (once a year).

The condensate drain (line) may get clogged with dirt and dust particles contained in the exhaust air. Check the drain line operation by filling the drain pan under the unit with water, clean the U-trap and the drain line, if necessary. Check periodically that the U-trap is filled with water.

5. Intake grille maintenance (twice a year).

The supply duct grille may get clogged with leaves and other objects reducing the unit performance and supply air delivery. Check the supply duct grill twice a year and clean it as required.

6. Duct system maintenance (every 5 years).

Even regular fulfilling of all the prescribed above maintenance operations may not completely prevent dirt accumulation in the air ducts which reduces the unit performance. The air duct maintenance means periodic cleaning or replacement.

TROUBLESHOOTING

Possible faults and troubleshooting

1 033IDIC Idalis and HoadicsHooting				
Fault	Possible reasons	Fault handling		
The fan does not start	No power supply.	Make sure that the unit is properly connected to power mains and make any corrections, if necessary.		
up during the unit start-up.	Motor jam, impeller clogging.	Turn the unit off. Troubleshoot the motor jam and the impeller clogging. Clean the blades. Restart the unit.		
Circuit breaker tripping during the unit turning on.	Overcurrent resulted from short circuit in the electric circuit.	Turn the unit off. Contact the service centre.		
	Low set fan speed.	Set higher speed.		
Low air flow.	Pollution of filters, fans or heat exchanger.	Clean or replace the filter, clean the fans and the heat exchanger.		
Low un now.	Clogging or damage of air ducts, diffusers, louver shutters, grille or other ventilation system components.	Clean or replace the ventilation system components, such as air ducts, diffusers, louver shutters, grilles.		
	Extract filter damage.	Clean or replace the extract filter.		
Cold supply air.	Heat exchanger freezing.	Check the heat exchanger for freezing. In case of need shut down the unit and turn it on after the freezing danger is not longer imminent.		
	Impeller soiling.	Clean the impeller(s).		
High noise, vibration.	Loose screw connection in the fans or in the casing.	Tighten the fan or casing screw connectioni against stop.		
	No anti-vibration dampers.	Install anti-vibration rubber mounts.		
Water leakage.	Clogging, damage or wrong mounting of the drain pipe.	Clean the drain line. Check the drain line slant, inspect the U-trap and make sure the drain line is equipped with frost protection.		



STORAGE AND TRANSPORTATION RULES

Store the unit in the manufacturer's original packing box in a dry ventilated premise at the temperatures from +5 °C up to +40 °C. Storage environment must not contain aggressive vapours and chemical mixtures provoking corrosion, insulation and sealing deformation.

Use hoist machinery for handling and storage operations to prevent the unit damage. Fulfil the handling requirements applicable for the applicable freight type.

Transportation with any vehicle type is allowed provided that the unit is protected against mechanical and weather damage. Avoid any mechanical shocks and strokes during handling operations.

MANUFACTURER'S WARRANTY

The manufacturer hereby warrants normal operation of the unit over the period of 24 months from the retail sale date provided the user's observance of the transportation, storage, installation and operation regulations.

Should any malfunctions occur during the unit operation through the manufacturer's fault during the warranty period the user is entitled to elimination of faults by means of warranty repair performed by the manufacturer.

The warranty repair includes works specific to elimination of faults in the unit operation to ensure its intended use by the user within the warranty period. The faults are eliminated by means of replacement or repair of the complete unit or the faulty part thereof.

The warranty repair does not include:

- · Routine maintenance;
- Unit installation / dismantling;
- Unit setup.

To benefit from warranty repair the user must provide the unit, the user's manual with stamped sale date and the payment document certifying the purchase.

The unit model must comply with the one stated in the user's manual.

Contact your Seller for warranty service.

The manufacturer's warranty does not apply to the following cases:

- User's failure to provide the unit with the entire delivery package as stated in the user's manual or with missing component parts previously dismounted by the user;
- · Mismatch of the unit model and make with the respective details stated on the unit packing and in the user's manual;
- User's failure to ensure timely technical maintenance of the unit;
- External damage to the casing (excluding external modifications of the unit as required for its installation) and the internal components of the unit;
- Alteration of the unit design or engineering changes of the unit;
- · Replacement and use of the unit assemblies, parts and components not approved by the manufacturer;
- Unit misuse:
- User's violation of the unit installation regulations;
- User's violation of the unit control regulations;
- Unit connection to the power pains with a voltage different from the one stated in the user's manual;
- Unit breakdown due to voltage surges in the power mains;
- User's discretionary repair of the unit;
- Unit repair performed by any non-authorised by the manufacturer persons;
- Expiry of the unit warranty period;
- User's violation of the established regulations specific to the unit transportation;
- User's violation of the unit storage regulations;
- Wrongful acts against the unit committed by third persons;
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, or blockade);
- Missing seals if provided by the user's manual;
- Failure to provide the user's manual with the sale date stamp;
- Missing payment document certifying the unit purchase.



FOLLOWING THE REGULATIONS STIPULATED HEREIN WILL ENSURE A LONG AND TROUBLE-FREE OPERATION OF THE UNIT.



USERS' CLAIMS SHALL BE SUBJECT TO REVIEW ONLY UPON PRESENTATION OF THE UNIT, THE PAYMENT DOCUMENT AND THE USER'S MANUAL WITH THE SALE DATE STAMP.



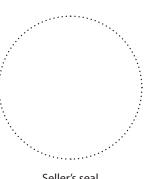
ACCEPTANCE CERTIFICATE

Product Type	Heat recovery air handling unit	
Model	□ VUT H EC □ VUT H EC Comfo	
Serial number		
Manufacturing date		
Directives, EU-Directives We hereby declare that Directive 2004/108/EC, 8 approximation of the law carried out on samples of	Is recognized as serviceable. Ith the requirements according to the EU norms and directives, to the relevant on Electromagnetic Compatibility. The following product complies with the essential protection requirements and Low Voltage Directive 2006/95/EC, 73/23/EEC and CE-marking so of the Member States relating to electromagnetic compatibility. This certification that the product referred to above. Assessment of compliance of the product with the ibility was based on the above standards.	s of Electromagnetic Council g Directive 93/68/EEC on the ficate is issued following test
Quality Inspector's Stamp		
SELLER'S INF	ORMATION	
Shop name		garanta a santa
Address		
Telephone	, IN	1
E-mail	Leite.	
Sales date	Rela .	A /
This is to certify delive acknowledged and acce	ry of the complete unit with the user's manual. The warranty terms are oted.	Seller's seal
Customer's signature		Seller's Seal
MOUNTING C	ERTIFICATE	
Company name		
Address		
Telephone		
Installation technician's full name	5	Installation technician's company seal
Installation date:	Signature:	company seal
with all the applicable pr	e works specific to the unit installation have been performed in accordance ovisions of local and national construction, electrical and technical codes and stes normally as intended by the manufacturer.	



WARRANTY CARD

Product type	Heat recovery air handling unit		
Model	□ VUT H EC □ VUT H EC Comfo		
Serial number			
Manufacturing date			
Sales date			
Warranty period			
Sales company			



Seller's seal

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