



USER'S MANUAL  
Air handling unit



Orca Energija d.o.o

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This user's manual is a main operating document intended for technical, maintenance, and operating staff. The manual contains information about purpose, technical details, operating principle, design, and installation of the ORCA MIDI 270 A22 unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

The information in this user's manual is correct at the time of the document's preparation.

The Company reserves the right to modify the technical characteristics, design, or configuration of its products at any time in order to incorporate the latest technological developments.

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# 1 SAFETY REQUIREMENTS

- Please read the user’s manual carefully prior to installing and operating the unit.
- All user’s manual requirements as well as the provisions of all the applicable local and national construction, electrical, and technical norms and standards must be observed when installing and operating the unit.
- The warnings contained in the user’s manual must be considered most seriously since they contain vital personal safety information.
- Failure to follow the rules and safety precautions noted in this user’s manual may result in an injury or unit damage.
- After a careful reading of the manual, keep it for the entire service life of the unit.
- While transferring the unit control, the user’s manual must be turned over to the receiving operator.

## 1.1 UNIT MOUNTING AND OPERATION SAFETY PRECAUTIONS



Disconnect the unit from power mains prior to any installation operations.



The unit must be grounded!



Do not lay the power cable of the unit in close proximity to heating equipment.



While installing the unit follow the safety regulations specific to the use of electric tools.



Do not change the power cable length at your own discretion.



Unpack the unit with care.



Do not use damaged equipment or cables when connecting the unit to power mains.



Do not operate the unit outside the temperature range stated in the user's manual.

Do not operate the unit in aggressive or explosive environments.



Do not touch the unit controls with wet hands.  
Do not carry out the installation and maintenance operations with wet hands.



Do not wash the unit with water.

Protect the electric parts of the unit against ingress of water.



Do not allow children to operate the unit.



Disconnect the unit from power mains prior to any technical maintenance.



Do not store any explosive or highly flammable substances in close proximity to the unit.



When the unit generates unusual sounds, odour or emits smoke disconnect it from power supply and contact the Seller.



Do not open the unit during operation.



Do not direct the air flow produced by the unit towards open flame or ignition sources.



Do not block the air duct when the unit is switched on.



In case of continuous operation of the unit, periodically check the security of mounting.



Do not sit on the unit and avoid placing foreign objects on it.



Use the unit only for its intended purpose.



The unit should be protected from heat and direct sunlight.



Do not install the unit in close proximity to open flame sources.



The product must be disposed separately at the end of its service life.  
Do not dispose the unit as unsorted domestic waste.

## 2 PURPOSE

The unit is designed to ensure continuous mechanical air exchange in houses, offices, hotels, cafes, conference halls, and other utility and public spaces as well as to recover the heat energy contained in the air extracted from the premises to warm up the filtered stream of intake air.

The unit is not intended for organizing ventilation in swimming pools, saunas, greenhouses, summer gardens, and other spaces with high humidity.

Due to the ability to save heating energy by means of energy recovery, the unit is an important element of energy-efficient premises. The unit is a component part and is not designed for stand-alone operation. It is rated for continuous operation. Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).



The unit should not be operated by children or persons with reduced physical, mental, or sensory capacities, or those without the appropriate training.

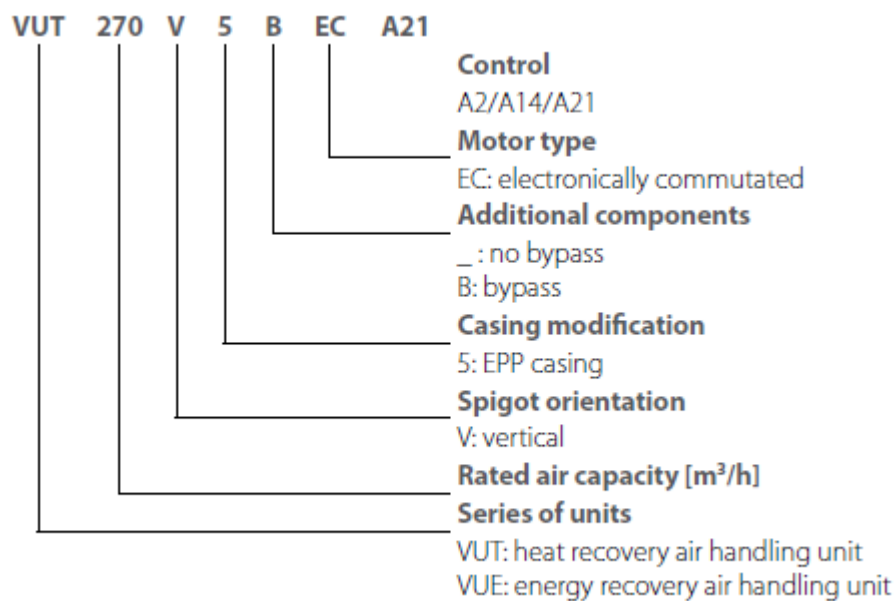
The unit must be installed and connected only by properly qualified personnel after the appropriate briefing.

The choice of unit installation location must prevent unauthorized access by unattended children.

### 3 DELIVERY SET AND DESIGNATION KEY

NAME	NUMBER
Air handling unit	1 pc.
Control panel *	1 pc.
Control unit user's manual*	1 pc.
Installation kit	1 pc.
User's manual	1 pc.
Packing box	1 pc.

\*Control panel is not included in the delivery set of units equipped with an A21 controller.



## 4 TECHNICAL DATA

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 %. In order to prevent condensation on the internal walls of the units, it is necessary that the surface temperature of the casing is 2-3 °C higher than the dew point temperature of the transported air.

The unit is rated as a Class I electrical appliance.

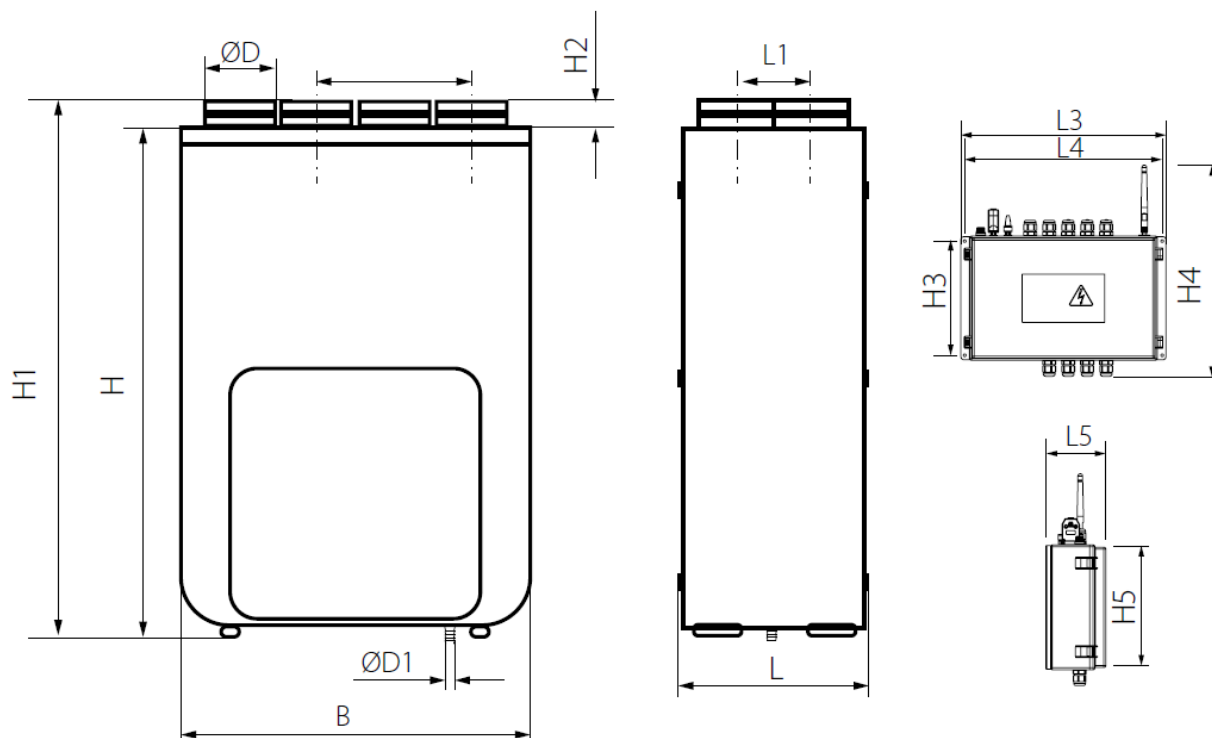
Hazardous parts access and water ingress protection rating:

- IP22 for the unit connected to the air ducts
- IP44 for the unit motors

The unit design is constantly being improved, thus some models may be slightly different from those described in this manual.

MODEL	ORCA MIDI 270 A22	ORCA MIDI 270 A22
Unit voltage [V/50 (60) Hz]	1 ~ 230	
Max. fan power [W]	162	
Maximum unit current (without a heater) [A]	1.2	
Max. air capacity [m3/h]	300	
Sound pressure level at a distance of 3 m [dBA]	34	
Transported air temperature [°C]	from -25 to +40	
Casing material	EPP	
Heat insulating material	EPP 15...26 mm	
Filtering class of the extract filter	G4	
Filtering class of the supply filter	G4 (optionally F8)	
Connected spigot diameter	125	
Weight [kg]	13	13,5
Heat recovery efficiency [%]	87-98	72-94
Heat exchanger type	counter-flow	
Heat exchanger material	polystyrene	enthalpy
SEC Class for the <b>VUT/VUE 270 V5(B) EC A14, VUT/VUE 270 V5(B) EC A21 units</b>	A+	A
SEC Class for the <b>VUT/VUE 270 V5(B) EC A2 units</b>	B	



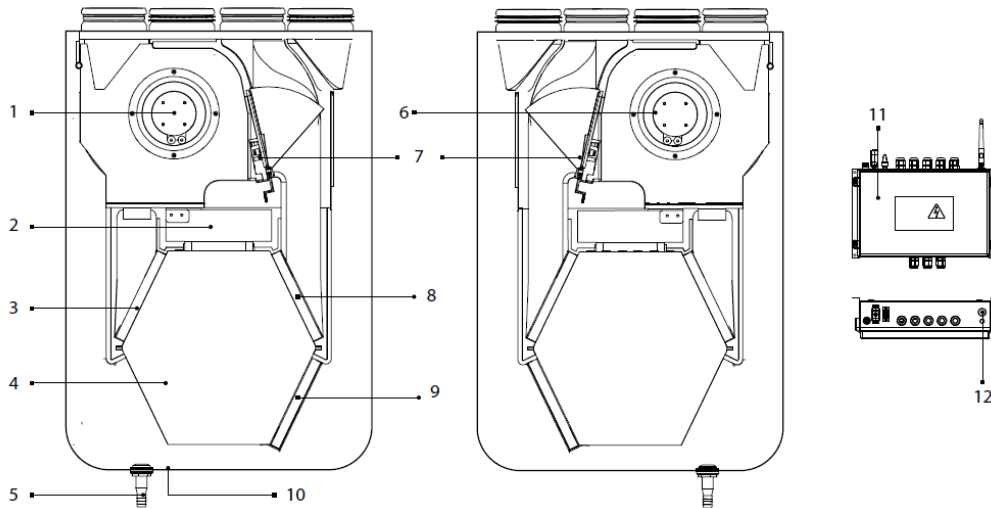


Model	Dimensions [mm]														
	Ø D	Ø D1	B	L	L1	L2	H	H1	H2	L3	L4	L5	H3	H4	H5
ORCA MIDI 270 A22	125	15	590	316	118	288	852	893	41	-	-	-	-	-	-

## 5 DESIGN AND OPERATING PRINCIPLE

The unit has the following operating logic: warm stale extract air from the room flows into the unit, where it is filtered by the extract filter, then air flows through the heat exchanger and is exhausted outside by the extract fan. Cold fresh air from the outside flows into the unit, where it is cleaned by the supply filter.

Then the air flows through the heat exchanger and is directed to the room with the supply fan. Heat energy of warm extract air is transferred to clean intake fresh air from the outside and warms it up. The air flows are fully separated while flowing through the heat exchanger. Heat recovery minimizes heat losses, which reduces the cost of space heating in the cold season.



1 - extract fan; 2 - control unit 3 - supply air filter; 4 - counter-flow heat exchanger; 5 - drain pipe; 6 - supply fan; 7 - bypass damper 8 - extract air filter; 9 - supply air filter (option); 10 - drain pan; 11 – external control unit 12 - SETUP MODE button

The service side of the unit is equipped with a detachable plate for filter and heat exchanger cleaning and replacement operations. The control unit is positioned inside the unit casing. The power cable and grounding cables are connected to the control unit via the cable gland at the side of the unit. The temperature differential between the supply and extract air flows leads to condensate generation. Condensate is collected in the drain pan and is removed outside through the drain pipes.

### Additional components (not included in the delivery set, optionally available for purchase):

**Humidity sensor** (HV2 is connected to the terminal block, HR-S is connected to the controller).

Based on the humidity sensor readings the unit keeps the set indoor humidity level. When the extract air humidity crosses the set humidity point, the unit goes automatically to the high speed. When the indoor humidity drops down below the set point, the unit reverts to the previous operation mode.

**CO2 sensor** (connected to the controller).

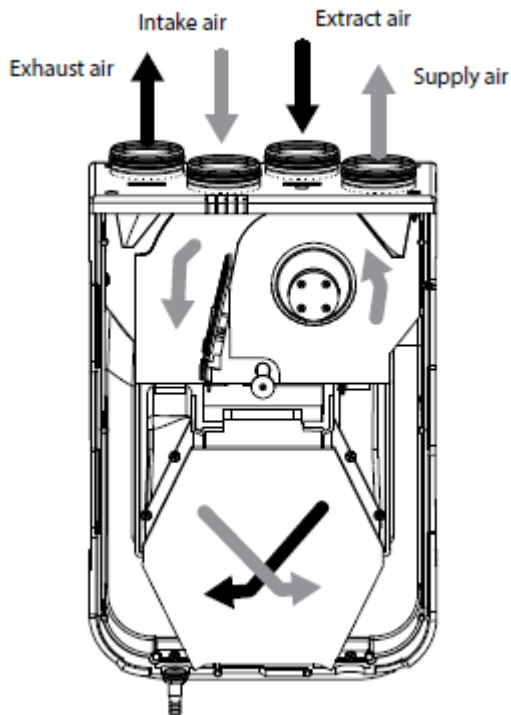
Measures indoor CO2 concentration and sends control signal to control the fan capacity. Air capacity control based on CO2 concentration is an efficient energy-saving ventilation solution.

**VOC sensor** (connected to the controller).

Used for quantification of indoor air saturation with cigarette smoke, exhaled air, vapours of solvents and cleaning agents for setting sensitivity with respect to expected maximum air pollution; for local demand controlled ventilation for energy saving, as air exchange takes place only in case of exceeding the set point of air pollution.

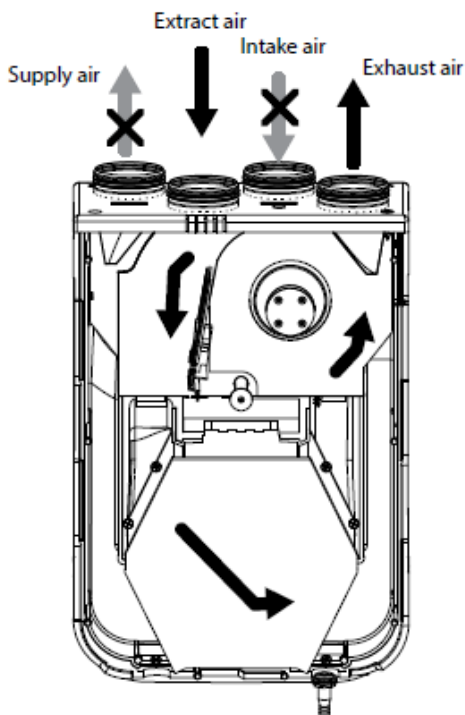
## 6 UNIT OPERATION MODE

### 6.1 Heat recovery



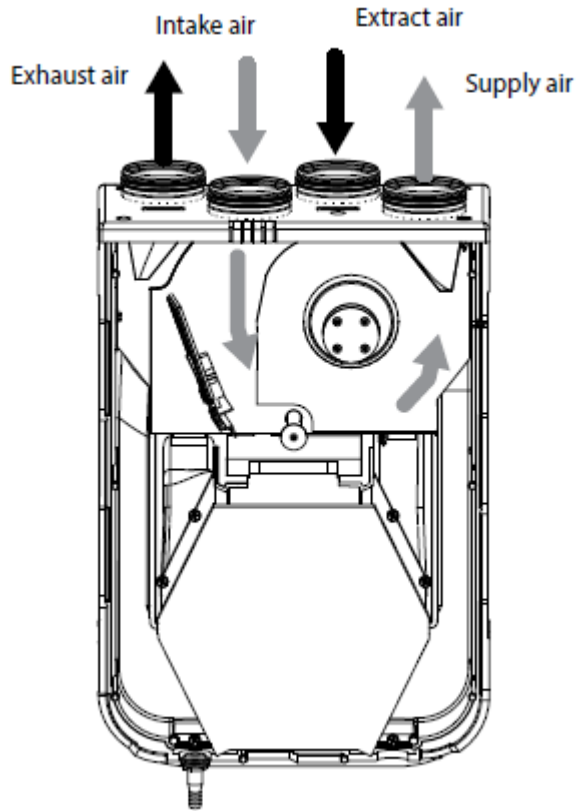
Warm stale extract air from the room flows into the unit, where it is filtered by the extract filter, then air flows through the heat exchanger and is exhausted outside by the extract fan. Cold fresh air from the outside flows into the unit, where it is cleaned by the supply filter. Then the air flows through the heat exchanger and is directed to the room with the supply fan. Supply air is heated in the heat exchanger by transferring the heat energy of warm and humid extract air to the cold fresh air. The air flows are fully separated while flowing through the heat exchanger. Heat recovery minimizes heat losses, which reduces the cost of space heating in the cold season.

### 6.2 Freeze protection



The heat exchanger freeze protection function of the unit is implemented with a temperature sensor installed in the exhaust air duct downstream of the heat exchanger. In case of a freezing danger the supply fan is turned off and the heat exchanger is warmed up with warm extract air flow. The recommended sensor or thermostat operating temperature is + 3 °C (exhaust air temperature behind the heat exchanger). If necessary, this set point can be edited using the software. After temperature increase the unit returns to the previous operation mode.

### 6.3 Summer cooling mode



The bypass dampers are open and both air flows do not come in contact with the heat exchanger.

## 7 INSTALLATION AND SET-UP

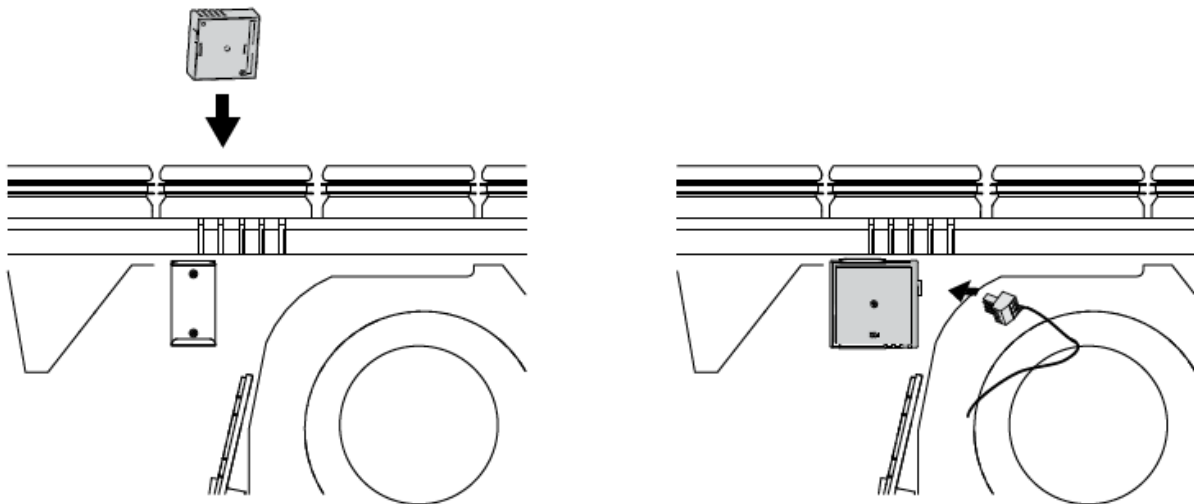


Read the user's manual before installing the unit.

### 7.1 HV2 humidity sensor installation and connection (for units with a14 and a21 control)

The HV2 humidity sensor is not included in the delivery set and is available as a specially ordered accessory. The humidity sensor must be installed prior to the unit mounting.

Install the humidity sensor through the extract spigot into the mount on the extract air duct panel. After that connect the humidity sensor plug to the respective socket on the control unit, refer to the External wiring diagram.



### 7.2 Unit installation

To attain the best performance of the unit and to minimize turbulence-induced air pressure losses, connect the straight air duct section to the spigots while installing.

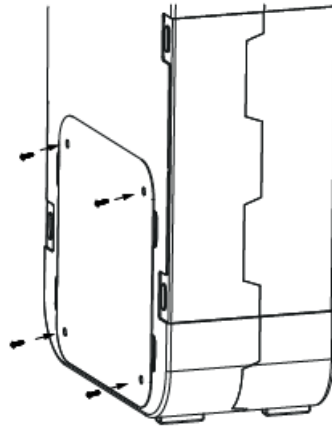
Minimum straight air duct length:

- equal to 1 air duct diameter on the intake side
- equal to 3 air duct diameters on outlet side

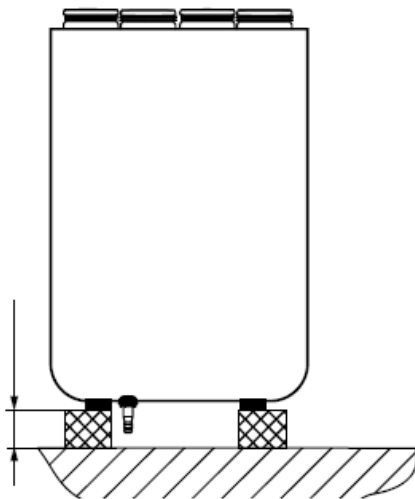
If the air ducts are too short or not connected, protect the unit parts from ingress of foreign objects. To prevent uncontrollable access to the fans, the spigots may be covered with a protecting grille or other protecting device with mesh width not more than 12.5 mm.

While installing the unit, ensure convenient access for subsequent maintenance and repair. The unit must be mounted on a flat floor.

Installing the unit to an uneven surface could lead to the unit's casing distortion and operation disturbance. Do not expose the unit to direct sunlight.

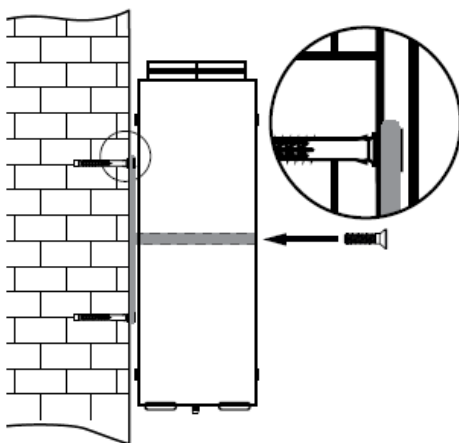


The plate opposite to the service side must be fixed with screws (included in the delivery set) before installation.



**Unit floor mounting**

Install the unit on the pre-mounted floor supports, minimum 150 mm height, to ensure sufficient access for the drain pipe connection to the U-trap and for condensate drain system installation.



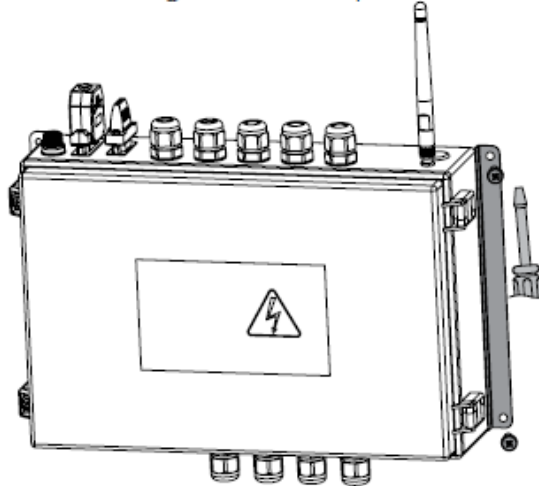
**Unit wall mounting**

Fasteners (dowels, self-tapping screws) for wall mounting are not included in the delivery set and must be ordered separately. While choosing fasteners consider the material of the mounting surface as well as the weight of the unit, refer to the Technical data section. Fasteners for unit installation should be selected by a qualified technician. Secure the wall bracket at required height. Hang the unit on the wall bracket and secure it with a screw.

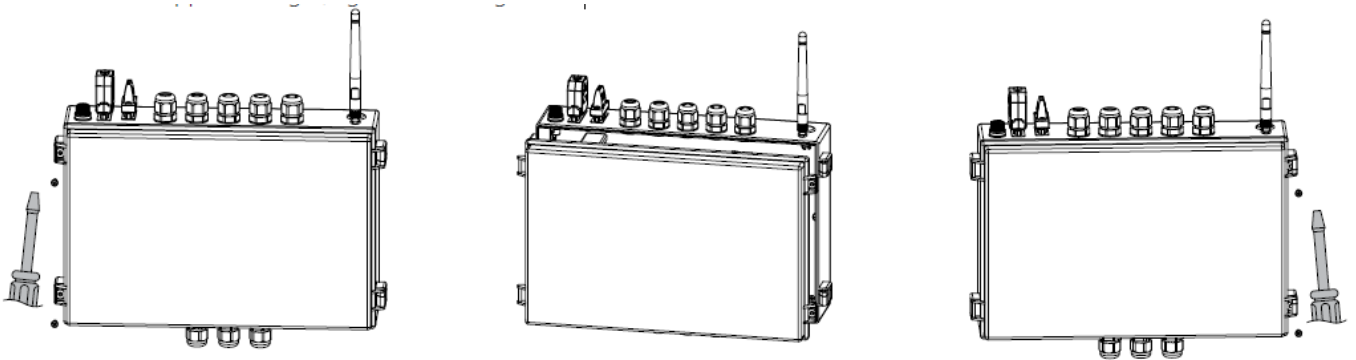
## Control unit mounting for ORCA MIDI 270 A22

Fasteners (dowels, self-tapping screws) for the control unit mounting are not included in the delivery set, must be purchased separately.

While choosing fasteners consider the material of the mounting surface. Fasteners for unit installation should be selected by a qualified technician. To fix the control unit on the mounting surface the mounting brackets are provided. If necessary, the mounting brackets can be removed.

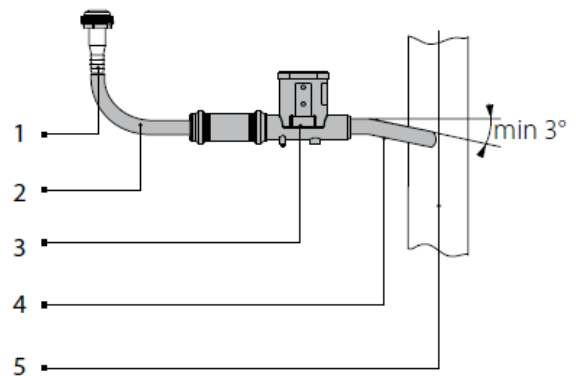
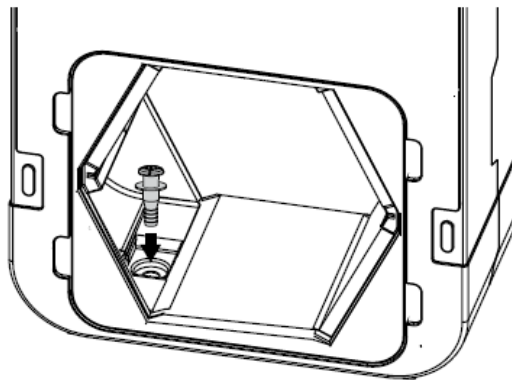


Design of hinges allows to change the opening side of a control unit cover. Unscrew the fixing screws, open the cover and unhinge it. Fix the cover to the opposite hinges, tighten the fixing screws.



### 7.3 Condensate drainage

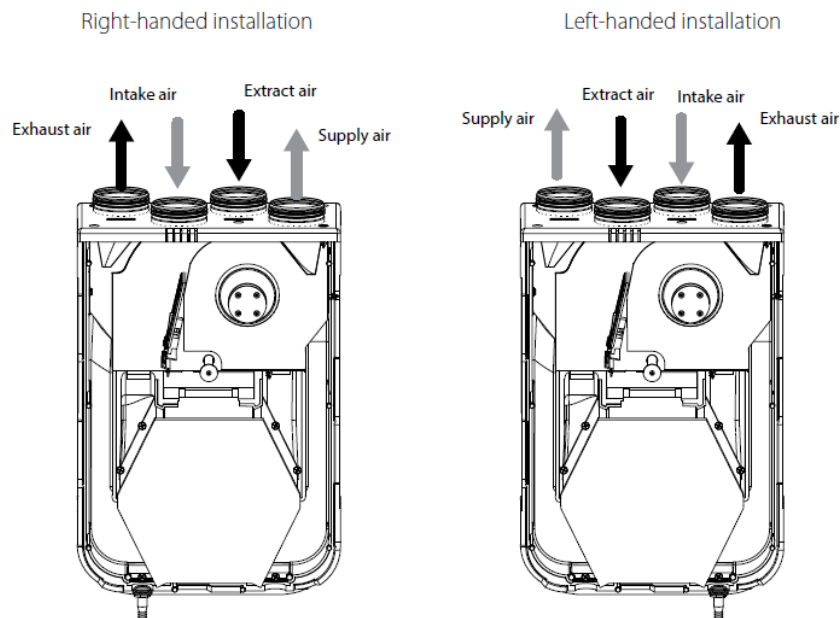
Condensate drainage is required for the ORCA MIDI 270 A22 unit series. The ORCA MIDI 270 A22 units are equipped with an enthalpy membrane heat exchanger. No condensate is generated in heat exchangers of this type, therefore, no condensate drainage is required. The hole for the drain pipe connection is located at the bottom of the unit. Open the service panel, remove the heat exchanger and filters, drill a hole (22 mm in diameter) in the plastic pan in the exhaust air duct and install the drain pipe (supplied) in the hole. Then connect the drain pipe to the sewage system using a U-trap kit (purchased separately). The pipe slope downwards must be at least 3.



1 - drain pipe; 2, 4 - drain hose; 3 - U-trap; 5 - sewage system.

The condensate drainage system is designed for normal operation in premises with air temperatures above 0 °C! If the expected ambient air temperatures are below 0 °C, the condensate drainage system must be equipped with heat insulation and pre-heating facilities.

### 7.4 Service side change



Make sure of the correct unit service side selection. Unit mounting position should enable free excess to the opening plate for maintenance and service operations. The plate opposite to the service side must be fixed with screws (included in the delivery set).



## 7.5 Connection to power mains



Turn off power supply prior to any operations with the unit.  
The unit must be connected to power supply by a qualified electrician. the rated electrical parameters of the unit are given on the manufacturer's label.



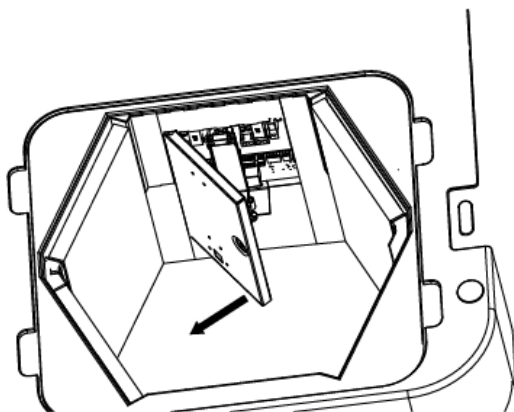
Any tampering with the internal connections is prohibited and will void the warranty.



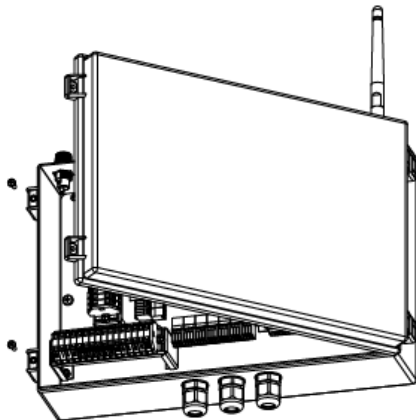
Do not lay the power cable of the unit in close proximity to the control panel cable! do not coil the cable from the control panel in loops while laying it.



The unit is rated for connection to single-phase AC 230 V/50 (60) Hz power mains. Connect the unit to power mains using the supplied power cable with the mains plug (included in the delivery set).. The external power input must be equipped with an automatic circuit breaker built into the stationary wiring to open the circuit in the event of overload or short-circuit. The position of the external circuit breaker must ensure free access for quick power-off of the unit. The trip current must be in compliance with the consumption current, refer to Technical data. Complete the electrical connections through the terminal block in the control unit as shown in the external wiring diagram.

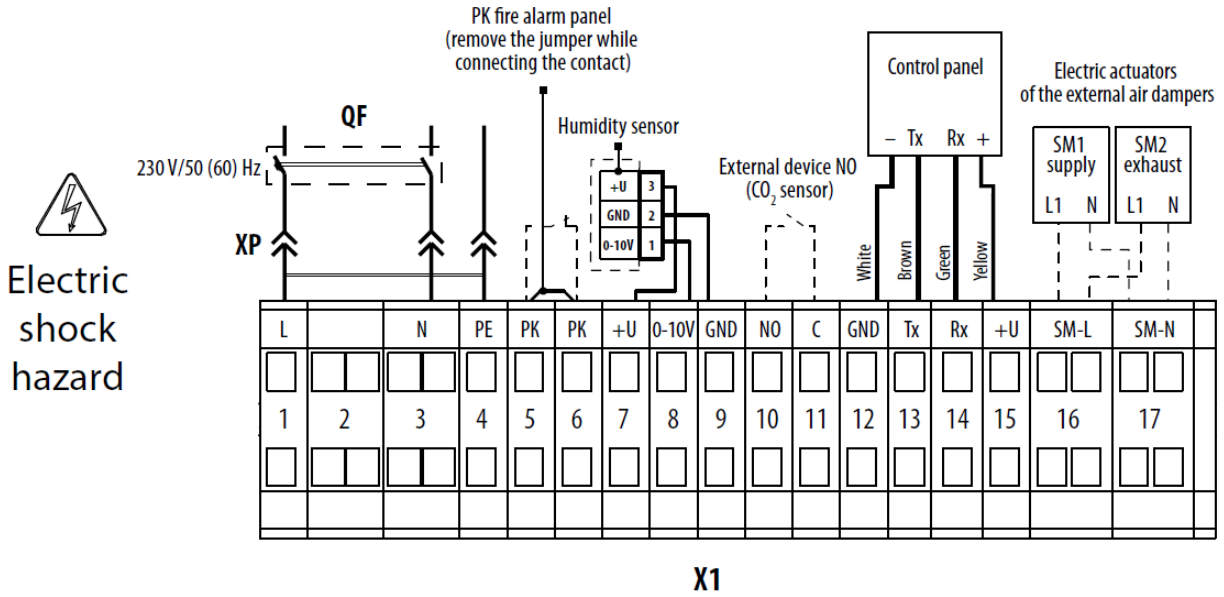


Access to the control unit VUT/VUE 270 V5(B)  
EC A2/A14



Access to the control unit VUT/VUE 270 V5(B)  
EC A21

### 7.6 External wiring diagram for units **vut/vue 270 v5(b) ec a14**

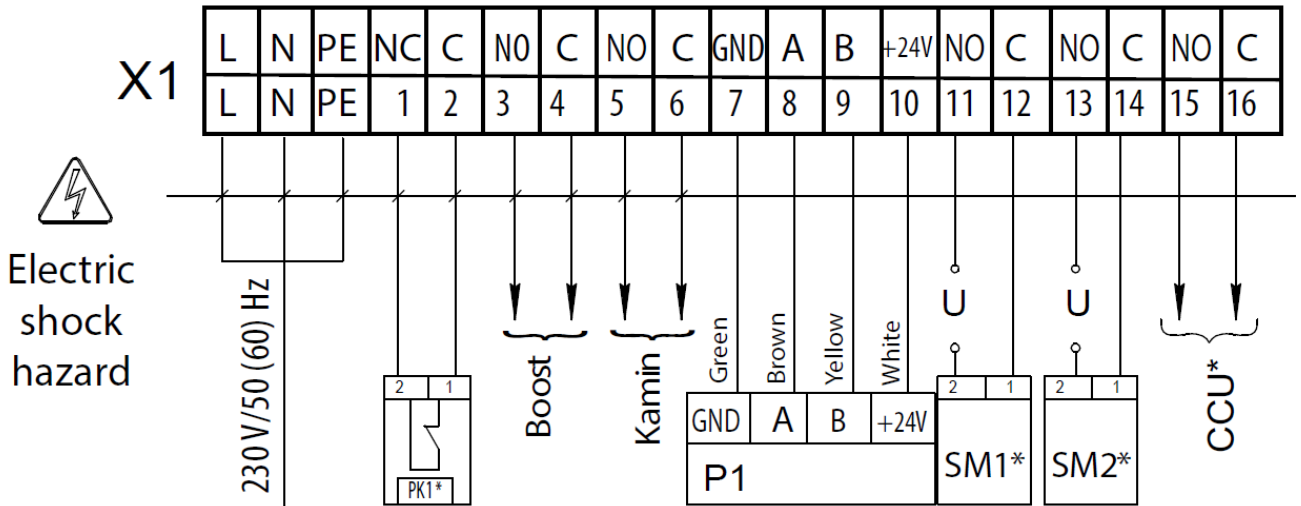


Designation	Name	Model	Wire**
NO	External control device contacts		2 x 0.75 mm <sup>2</sup>
SM1*	Supply air damper actuator	LF230	2 x 0.75 mm <sup>2</sup>
SM2 *	Extract air damper actuator	LF230	2 x 0.75 mm <sup>2</sup>
PK*	Contact from fire alarm panel	NO	2 x 0.75 mm <sup>2</sup>

\*Is not included in the delivery set.

\*\* Maximum connecting cable length is 20 m!

### 7.7 External wiring diagram for units **vut/vue 270 v5(b) ec a21**

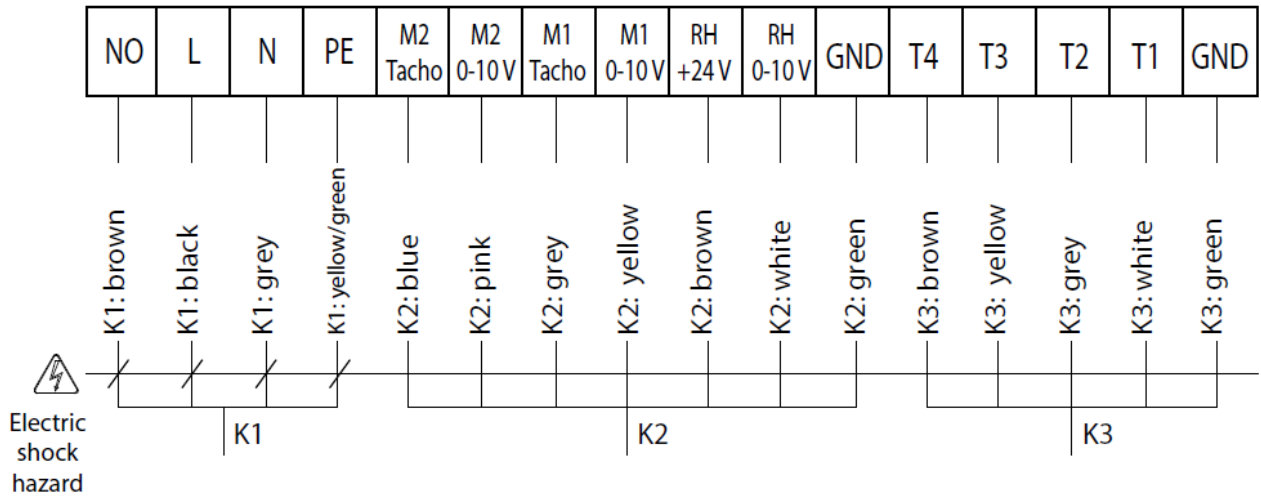


Designation	Name	Type	Wire**
SM1*	Supply air damper actuator	NO	2 x 0.75 mm <sup>2</sup>
SM2 *	Extract air damper actuator	NO	2 x 0.75 mm <sup>2</sup>
PK1*	Contact from fire alarm panel	NC	2 x 0.75 mm <sup>2</sup>
CCU*	Cooler control	NO	2 x 0.75 mm <sup>2</sup>
P1	External control panel		4 x 0.75 mm <sup>2</sup>
Boost	On/Off Boost contacts	NO	
Kamin	On/Off Kamin contacts	NO	

\*Is not included in the delivery set.

\*\* Maximum connecting cable length is 20 m!

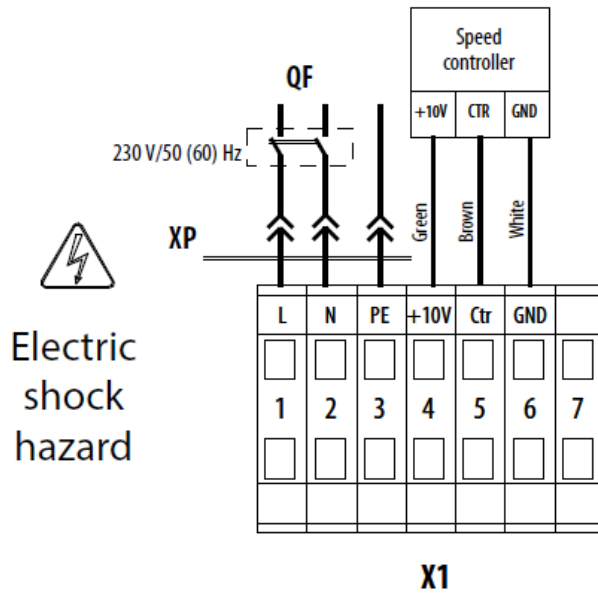
## 7.8 WIRING DIAGRAM FOR CONNECTION OF THE EXTERNAL CONTROL UNIT TO **VUT/VUE 270 V5(B) EC A21** UNITS



K1: Connection cable for M1, M2 motors and Y1,Y2 actuators.  
 K2: Cable for connection of the control signals for M1, M2 motors and RH humidity sensor.  
 K3: Connection cable for temperature sensors.

## 7.9 EXTERNAL WIRING DIAGRAM FOR UNITS **VUT/VUE 270 V5(B) EC A2**

EXTERNAL WIRING DIAGRAM FOR UNITS **VUT/VUE 270 V5(B) EC A2**



Name	Wire*
Speed controller	3 x 0.25 mm <sup>2</sup>

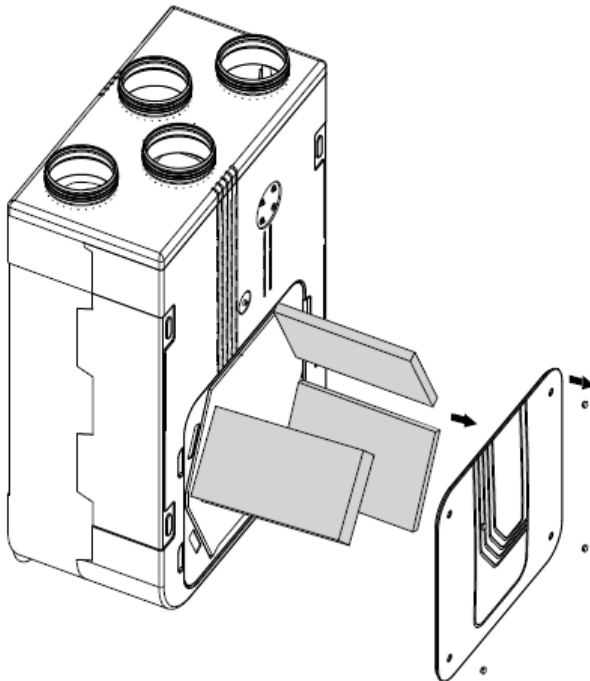
\*\* Maximum connecting cable length is 20 m!

## 8 TECHNICAL MAINTENANCE



Disconnect the unit from power supply before any maintenance operations.  
Follow the safety regulations when carrying out maintenance.

Maintenance operations of the unit are required 3-4 times per year. It includes general cleaning of the unit and the following operations:

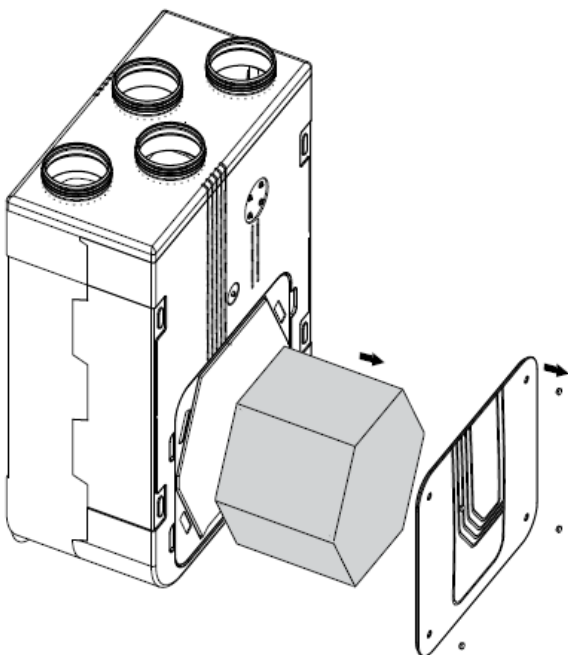


### 1. Filter maintenance (3-4 times per year).

Dirty filters increase air resistance in the system and reduce supply air volume. The filters require cleaning not less than 3-4 times per year.

Vacuum cleaning is allowed. After two consecutive cleanings filters must be replaced. For new filters, contact the Seller.

To clean or replace the filters, detach the removable plates located on the service side of the unit. After cleaning install the filters and the detachable plates in the reverse order.



### 2. Heat exchanger maintenance (once per year).

Some dust may accumulate on the heat exchanger even in case of regular maintenance of the filters. To maintain the high heat recovery efficiency, regular cleaning is required. Before removing the heat exchanger, detach the removable plate located on the service side of the unit.

To clean the heat exchanger pull it out, drain the water through the pipes, then flush the heat exchanger with warm detergent solution. After cleaning install the dry heat exchanger with the drain pan back to the unit.

**3. Drain system maintenance (once per year)**

The condensate drainage (drain line) may get clogged by dirt and dust particles contained in the exhaust air. Pour some water inside the drain pan to check the pipe for clogging. Clean the U-trap and the drain pipe if required.

**4. Technical maintenance of air duct system (every 5 years).**

Even regular fulfilling of all the maintenance operations prescribed above may not completely prevent dirt accumulation in the air ducts, which reduces the unit capacity. Duct maintenance means regular cleaning or replacement.

**5. Control unit maintenance (if necessary).**

The control unit maintenance must be performed by an expert qualified for unassisted operations with electrical installations with the voltage up to 1000 V after careful reading of the user's manual.

## 9 TROUBLESHOOTING

TROUBLE	POSSIBLE REASONS	TROUBLESHOOTING
The fan(s) does not start when the unit is on	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.
	The motor is jammed, the impeller blades are soiled.	Turn the unit off. Troubleshoot the motor jam and the impeller clogging. Clean the blades. Restart the unit.
	Alarm in the system.	Turn the unit off. Contact the Seller.
Automatic circuit breaker trips following the unit turning on	Overcurrent as a result of short circuit in the electric circuit.	Turn the unit off. Contact the Seller.
Low air flow	The fan speed is too low	Set a higher speed
	The filter is clogged, fan or conditioner contaminated.	Clean or replace the filter. Clean the fan and the heat exchanger.
	Ventilation system elements (air ducts, diffusers, louver shutters, grilles) are clogged, damaged, or closed.	Clean or replace the ventilation system elements, such as air ducts, diffusers, louver shutters, grilles.
Cold supply air	The extract filter is soiled.	Clean or replace the extract filter.
Noise, vibration	The impeller(s) is soiled.	Clean the impeller(s).
	The fan or casing screw connection is loose.	Tighten the screw connection of the fans or the casing all the way.
	No anti-vibration connectors on air duct pipe flanges.	Install anti-vibration connectors.
Water leakage (only for the VUT 270 V5(B) EC units)	The drainage system is soiled, damaged, or installed incorrectly.	Clean the drain line if necessary. Check the drain line slope angle. Make sure that the U-trap is filled with water and the drain pipes are frost protected.

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## 10 STORAGE AND TRANSPORTATION REQUIREMENTS

- Store the device in the original packaging of the manufacturer in a dry, closed ventilated room with a temperature range from + 5°C to + 40°C and relative humidity up to 70%.
- The storage area must not contain aggressive vapours and mixtures of chemicals that cause corrosion and impair insulation and sealing.
- Use a suitable lifting device for handling and storage to prevent possible damage to the device.
- Observe the requirements that apply to the handling of a particular type of load.
- The device can be transported in its original packaging by any mode of transport that provides adequate protection against precipitation and mechanical damage. The device should only be transported in the working position.
- Avoid sharp shocks, scratches or rough handling during loading and unloading.
- Allow the device to warm up to operating temperature for at least 3-4 hours before the first start-up after transport at low temperatures.

## MANUFACTURER'S WARRANTY

The product is in compliance with EU norms and standards on low voltage guidelines and electromagnetic compatibility. We hereby declare that the product complies with the provisions of Electromagnetic Council Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and CE-marking Directive 93/68/EEC. This certificate is issued following test carried out on samples of the product referred to above.

The manufacturer hereby warrants normal operation of the unit for 24 months after the retail sale date provided the user's observance of the transportation, storage, installation, and operation regulations. Should any malfunctions occur in the course of the unit operation through the Manufacturer's fault during the guaranteed period of operation, the user is entitled to get all the faults eliminated by the manufacturer by means of warranty repair at the factory free of charge. The warranty repair includes work specific to elimination of faults in the unit operation to ensure its intended use by the user within the guaranteed period of operation. The faults are eliminated by means of replacement or repair of the unit components or a specific part of such unit component.

### **The warranty repair does not include:**

- routine technical maintenance
- unit installation/dismantling
- unit setup

To benefit from warranty repair, the user must provide the unit, the user's manual with the purchase date stamp, and the payment paperwork certifying the purchase. The unit model must comply with the one stated in the user's manual. Contact the Seller for warranty service.

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

- User's failure to submit the unit with the entire delivery package as stated in the user's manual including submission with missing component parts previously dismantled by the user.
- Mismatch of the unit model and the brand name with the information stated on the unit packaging and in the user's manual.
- User's failure to ensure timely technical maintenance of the unit.
- External damage to the unit casing (excluding external modifications as required for installation) and internal components caused by the user.
- Redesign or engineering changes to the unit.
- Replacement and use of any assemblies, parts and components not approved by the manufacturer.
- Unit misuse.
- Violation of the unit installation regulations by the user.
- Violation of the unit control regulations by the user.
- Unit connection to power mains with a voltage different from the one stated in the user's manual.
- Unit breakdown due to voltage surges in power mains.
- Discretionary repair of the unit by the user.
- Unit repair by any persons without the manufacturer's authorization.
- Expiration of the unit warranty period.
- Violation of the unit transportation regulations by the user.
- Violation of the unit storage regulations by the user.
- Wrongful actions against the unit committed by third parties.
- Unit breakdown due to circumstances of insuperable force (fire, flood, earthquake, war, hostilities of any kind, blockades).
- Missing seals if provided by the user's manual.
- Failure to submit the user's manual with the unit purchase date stamp.
- Missing payment paperwork certifying the unit purchase ANC





Following the regulations stipulated herein will ensure a long and trouble-free operation of the unit.



User's warranty claims shall be subject to review only upon presentation of the unit, the payment document and the user's manual with the purchase date stamp.

### Certificate of acceptance

Unit Type	Heat and energy recovery air handling unit
Model	MIDI _____
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

### Seller informations

**Seller:**

ORCA ENERGIJA d.o.o.

Vodovodna ulica 30c

2000 Maribor, Slovenija

**Signature:**

**Installation technicians informations:**

**Signature:**

\_\_\_\_\_  
(name)

\_\_\_\_\_  
(Address)

**Installation date:** \_\_\_\_\_

