# USER'S MANUAL

 VUT 300 HB(E) EC
 VUE 300 HB(E) EC

 VUT 400 HB(E) EC
 VUE 400 HB(E) EC

 VUT 700 HB(E) EC
 VUE 700 HB(E) EC



HEAT RECOVERY AIR HANDLING UNIT





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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 VUT/VUE HB(E) EC 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.

## **SAFETY REQUIREMENTS**

This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the unit by a person responsible for their safety. Children should be supervised to ensure that they do not play with the unit.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Cleaning and user maintenance shall not be made by children without supervision. Children shall not play with the appliance.

Ensure that the unit is switched off from the supply mains before removing the guard.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a safety hazard.

Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.

The appliance may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of the unit the operation of flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.



Do not attach the product to the support using glue or adhesives. Use only the fastening method specified in the «User's manual».

Connection to the mains must be made through a disconnecting device, which is integrated into the fixed wiring system in accordance with the wiring rules for design of electrical units, and has a contact separation in all poles that allows for full disconnection under overvoltage category III conditions.

All operations described in this manual must be performed by qualified personnel only, properly trained and qualified to install, make electrical connections and maintain ventilation units.

Do not attempt to install the product, connect it to the mains, or perform maintenance yourself. This is unsafe and impossible without special knowledge.

Disconnect the power supply prior to any operations with 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.

Disconnect the unit from the power supply prior to any connection, servicing, maintenance, and repair operations.

Connection of the unit to power mains is allowed by a qualified electrician with a work permit for the electric units up to 1000 V after careful reading of the present user's manual.

Check the unit for any visible damage of the impeller, the casing, and the grille before starting installation. The casing internals must be free of any foreign objects that can damage the impeller blades.

While mounting the unit, avoid compression of the casing! Deformation of the casing may result in motor jam and excessive noise.

Misuse of the unit and any unauthorised modifications are not allowed.

Do not expose the unit to adverse atmospheric agents (rain, sun, etc.).

Transported air must not contain any dust or other solid impurities, sticky substances, or fibrous materials.

Do not use the unit in a hazardous or explosive environment containing spirits, gasoline, insecticides, etc.

Do not close or block the intake or extract vents in order to ensure the efficient air flow.

Do not sit on the unit and do not put objects on it.

The information in this user's manual was 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.

Never touch the unit with wet or damp hands.

Never touch the unit when barefoot.

BEFORE INSTALLING ADDITIONAL EXTERNAL DEVICES, READ THE RELEVANT USER MANUALS.



THE PRODUCT MUST BE DISPOSED SEPARATELY AT THE END OF ITS SERVICE LIFE.

DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.



## **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.

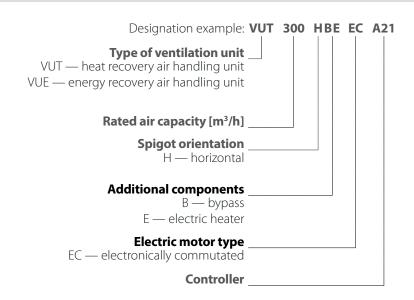
Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).

#### **DELIVERY SET**

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

<sup>\*</sup>Control panel is not included in delivery set of units equipped with A21 controller.

#### **DESIGNATION KEY**





#### **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 60 % without condensation. In cold, damp rooms, there is a possibility of freezing or condensation inside and outside the casing. In order to prevent condensation on the internal walls of the unit, it is necessary that the surface temperature of the casing is 2-3 °C above the dew point temperature of the transported air.

The unit should be operated continuously, and in cases where ventilation is not necessary, reduce the air flow of the fans to a minimum (20%). This will ensure a favorable indoor climate and reduce the amount of condensation inside the unit, which can damage electronic components. Never use the unit for dehumidification, for example, of new buildings.

The unit is rated as a Class I electrical appliance.

Hazardous parts access and water ingress protection rating:

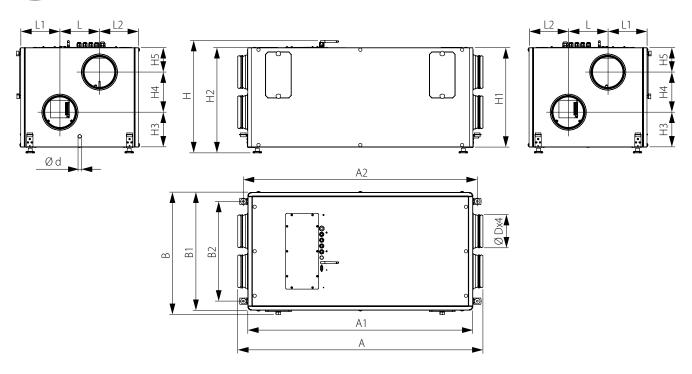
IP22 for the unit connected to the air ducts

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.

Parameters	VUT 300 HB EC A21 VUT 300 HB EC A14	VUT 300 HBE EC A21	VUE 300 HB EC A21 VUE 300 HB EC A14	VUE 300 HBE EC A21	VUT 400 HB EC A21 VUT 400 HB EC A14	VUT 400 HBE EC A21	VUE 400 HB EC A21 VUE 400 HB EC A14	VUE 400 HBE EC A21	VUT 700 HB EC A21 VUT 700 HB EC A14	VUT 700 HBE EC A21	VUE 700 HB EC A21 VUE 700 HB EC A14	VUE 700 HBE EC A21
Unit voltage [V/50 (60) Hz]						1~	230					
Maximum unit power [W]	18	32	18	32	28	39	28	39	33	36	33	36
Maximum unit current (without an electric heater) [A]	1.	.4	1	.4	2.	.1	2.	.1	2	.4	4 2.4	
Electric heater power [W]	-	2800	-	2800	-	2800	-	2800	-	3600	-	3600
Electric heater current [A]	-	12.2	-	12.2	-	12.2	-	12.2	-	15.6	-	15.6
Maximum unit power (with an electric heater) [W]	182	2982	182	2982	289	3089	289	3089	336	3936	336	3936
Maximum unit current (with an electric heater) [A]	1.4	13.6	1.4	13.6	2.1	14.3	2.1	14.3	2.4	18.0	2.4	18.0
Maximum air flow [m³/h]	38	30	38	30	540 540		10	830		830		
RPM [min <sup>-1</sup> ]	21	00	21	00	2600		2600		3200		3200	
Sound pressure level at a distance of 3 m [dBA]	2	4	2	4	27		27		31		31	
Transported air temperature [°C]						-25	.+40					
Casing material						Alu	zinc					
Insulation					40 r	nm mi	neral v	vool				
Extract air filter						Œ	4					
Supply filter						G4-	+F7					
Connected air duct diameter [mm]	Ø 1	60	Ø.	160	Ø 2	200	Ø 2	200	Ø 2	250	Ø 2	250
Weight [kg]	63.1	64.3	63.1	64.3	74.8	76	74.8	76	107	108.4	107	108.4
Heat recovery efficiency [%]	80-	-98	74	-89	84-	-98	78-	-89	80-	-98	74-	-89
Heat exchanger type	Counter-flow											
Heat exchanger material	Polyst	yrene	Enth	nalpy	Polyst	yrene	Enth	alpy	Polyst	yrene	Enth	alpy
SEC class	A+	A+	А	А	A+	A+	А	Α	A+	A+	А	Α





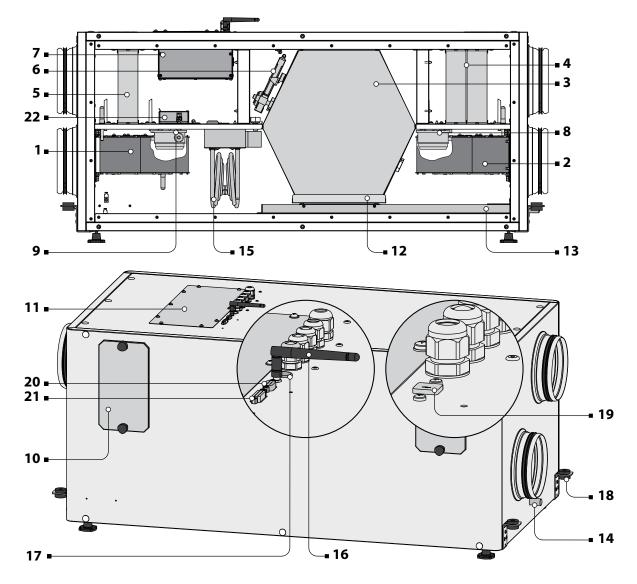
Mandal	Overall and connecting dimensions [mm]																
Model	d	D	Α	<b>A</b> 1	A2	В	B1	B2	Н	H1	H2	Н3	H4	H5	L	L1	L2
VUT/VUE 300 HB(E) EC	16	157	1180	1083	1126	586	566	480	540	479	506	168	193	118	190	189	189
VUT/VUE 400 HB(E) EC	16	197	1191	1094	1137	702	682	596	566	504	531	162	201	141	248	217	217
VUT/VUE 700 HB(E) EC	16	247	1379	1282	1325	886	866	700	663	601	629	201	234	166	274	296	296

**CAUTION!** Technical data and dimensions of the control panel (included in the delivery set) are specified in the user's manual of the panel.



## **UNIT DESIGN AND OPERATING PRINCIPLE**

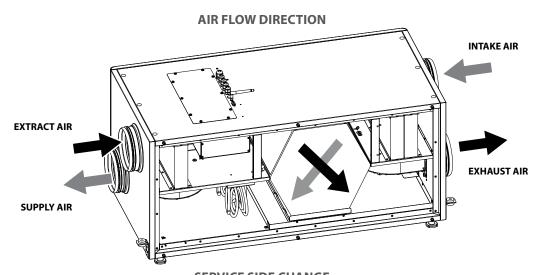
- Warm stale extract air from the room flows to the unit, where it is filtered by the extract filter, then air flows through the heat exchanger and is exhausted outside by the extract fan. Cold fresh air from outside flows into the unit, where it is cleaned by the supply filter. Then filtered air flows through the heat exchanger and is moved to the room with the supply fan.
  - Thermal energy of warm extract air is transferred to clean intake fresh air from outside and warms it up. The air flows are fully separated. Heat recovery minimizes heat losses, which reduces the cost of space heating in the cold season.
- The removable service plates for filter replacement are located on the service side of the unit. Service side change is available.
- The BE VILLA H A21, BE VILLA EH A21 models are equipped with a built-in reheater for heating the supply air to a more comfortable temperature. An NKD electric duct heater can be optionally connected to the BE VILLA A21, BE VILLA E A21 units. The heaters operate automatically according to the temperature sensor readings. The NKD heater must be installed in the supply air duct downstream of the heat exchanger.
- Heat exchanger freeze protection in units with an A21 controller is carried out:
  - 1. By means of an automatic cyclic shut-off of the supply fan, with the extract fan running.
  - 2. By means of the bypass duct with a bypass damper, which automatically opens the bypass duct upon the temperature sensor readings. When the bypass damper is opened, the extract air that is removed from the premises bypasses the heat exchanger.
  - 3. With an NKP preheater (purchased separately). Switching the NKP heater on/off is carried out automatically upon the temperature sensor readings. The heater must be installed in the supply air duct upstream of the heat exchanger.
  - The choice of the required heat exchanger freeze protection is made in the mobile application.
- Heat exchanger freeze protection in units with an A14 controller is carried out by means of automatic shut-off of the supply fan, with the extract fan running.
- Changing the position of the damper (opening/closing) in units with an A14 controller is done manually on the control panel.





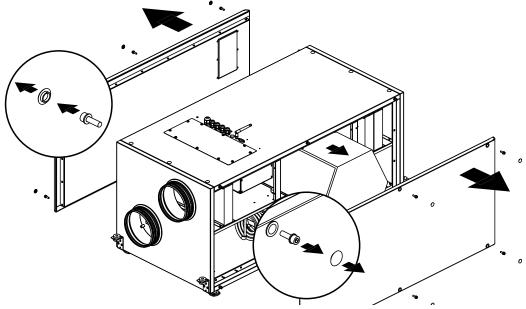
Air handling unit:		DE VILLA	7	DE VILLA E	BE VILLA H	BE VILLA EH
Controller:	A14	A21	A14	A21	A21	A21
<ul><li>Supply fan</li><li>Extract fan</li></ul>	•	•	•	•	•	•
<ul><li>Extract fan</li><li>Counter-flow heat exchanger</li></ul>	•	•	•	•	•	•
4 Supply filters	•	•	•	•	•	•
5 Extract filter	•	•	•	•	•	•
6 Bypass damper actuator	•		•	•	•	•
7 Control unit	•		•	•	•	•
Differential pressure switch for monitoring supply filter clogging			•		•	•
Differential pressure switch for monitoring extract filter clogging		•		•	•	•
10 Filter maintenance access hole	•	•	•	•	•	•
11 Inspection hatch for access to the control unit	•	•	•	•	•	•
12 Condensate drip tray	•	•			•	
13 Condensate drain pan	•	•	•	•	•	•
14 Drain pipe	•	•			•	
15 Supply air reheater					•	•
<b>16</b> Wi-Fi antenna		•		•	•	•
17 Set Up Mode on/off button		•		•	•	•
18 Brackets for suspended mounting	•	•	•	•	•	•
19 USB connector (service)	•		•			
20 Connector for an NKP duct electric preheater connection		•		•	•	•
21 Connector for an NKD duct electric reheater connection		•		•		
22 HV2 humidity sensor (purchased separately)	•	•	•	•	•	•



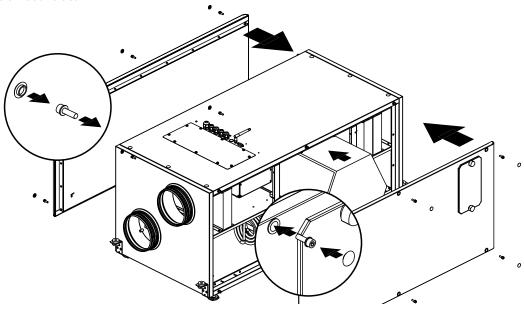


SERVICE SIDE CHANGE

Remove the plugs from the panels on the service side and on the opposite side of the unit. Undo the screws securing the panels and remove them. Remove the heat exchanger with a condensate drip tray.



Install the panel which is not a service side on the opposite side. Move the block with the bypass damper against the stop with the panel and install the heat exchanger with the condensate drip tray to the unit. Fix the front panel (service side) using screws. Close the screw caps with the plugs on both sides.





## **INSTALLATION AND SET-UP**



#### READ THE USER'S MANUAL BEFORE INSTALLING THE UNIT.

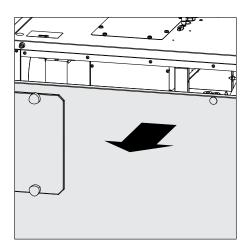


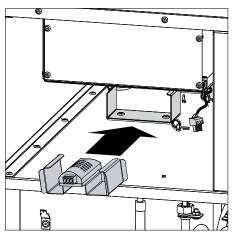
# WHILE INSTALLING THE UNIT ENSURE CONVENIENT ACCESS FOR SUBSEQUENT MAINTENANCE AND REPAIR.

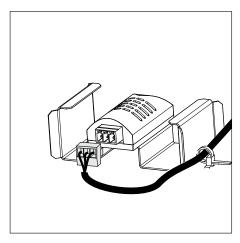
#### **HV2 HUMIDITY SENSOR INSTALLATION AND CONNECTION**

**CAUTION!** The humidity sensor in the exhaust air duct should be installed and connected before the unit mounting.

- Undo the screws on the front panel and remove it.
- Install the humidity sensor in the mount.
- Connect the sensor to the control unit using a cable with a connector (installed by the manufacturer).

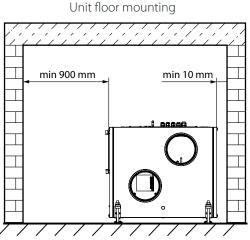






## **UNIT INSTALLATION**

Suspended ceiling mounting



The unit can be suspended on threaded studs or fixed to a horizontal surface using anchor bolts.

Fasteners for mounting the unit are purchased separately. While choosing fasteners consider the material of the mounting surface as well as the weigh of the unit, refer to the "Technical data" section. Fasteners for unit installation should be selected by a qualified technician.

min 900 mm

**CAUTION!** To get the best performance of the unit and to minimize turbulence-induced air pressure losses, connect the straight air duct section to the spigots on both sides of the unit while installing. Minimum straight air duct length: equal to 1 air duct diameter on 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 fan the spigots may be covered with a protecting grille or other protecting device with mesh width not more than 12.5 mm.

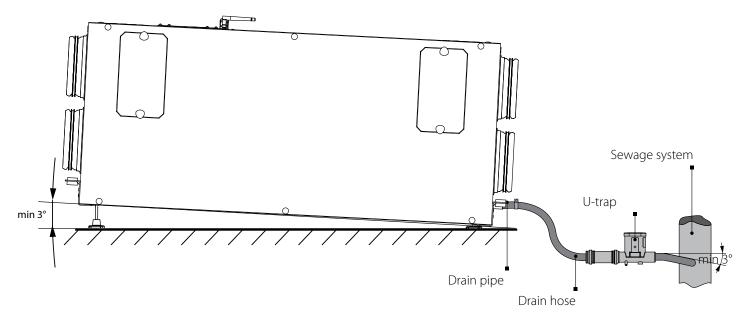


#### **CONDENSATE DRAINAGE**

All the units are equipped with a drain pan.

The drain pan in energy recovery units (VUE HB EC, VUE HBE EC) is not used, since condensate is not formed due to the transfer of moisture from one air stream to the other through the enthalpy membrane.

Temperature differences between supply and extract air flows in heat recovery units (VUT HB EC, VUT HBE EC) lead to condensate formation. Condensate is formed in the heat exchanger, then it is collected in the drain pan and removed outside by the drain pipes. Connect the part of the drain hose at the outside of the unit to the sewage system.



#### **CAUTION!**

To ensure the flow of water, pipes must be mounted with a slope of at least 3°.

Provide free drainage for the condensed water, otherwise it is accumulated inside the unit that may cause the equipment damage and condensate outflow to the room.

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.



## **CONNECTION TO POWER MAINS**

DISCONNECT THE POWER SUPPLY PRIOR TO ANY OPERATIONS WITH THE UNIT.



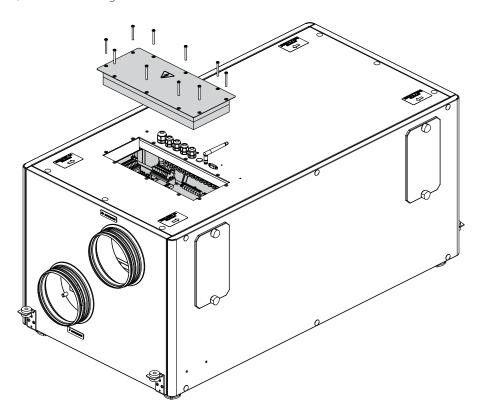
CONNECTION OF THE UNIT TO POWER MAINS IS ALLOWED BY A QUALIFIED ELECTRICIAN WITH A WORK PERMIT FOR THE ELECTRIC UNITS UP TO 1000 V AFTER CAREFUL READING OF THE PRESENT USER'S MANUAL.

THE RATED ELECTRICAL PARAMETERS OF THE UNIT ARE GIVEN ON THE MANUFACTURER'S LABEL.

- The unit is rated for connection to 1~220-240 V/50 (60) Hz power mains.
- The unit must be connected to power mains using insulated electric conductors (cables, wires). The actual wire cross section selection must be based on the maximum load current, maximum conductor temperature depending on the wire type, insulation, length and installation method.
- The external power input must be equipped with an automatic circuit breaker built into the stationary wiring to open the electric circuit in case of overload or short-circuit. The circuit breaker installation place must provide quick access for emergency shutdown of the unit. The trip current of the automatic circuit breaker **QF** must exceed the maximum current consumption of the unit (refer to the technical data table). The recommended trip current of the circuit breaker is the next current in the standard trip current row following the maximum current of the connected unit. The automatic circuit breaker is not included in the delivery set.

The control unit is positioned inside the unit casing.

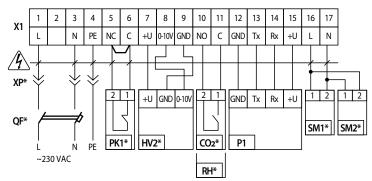
To access the control unit, remove the fixing screws on the service hatch and remove it.





## Wiring diagram

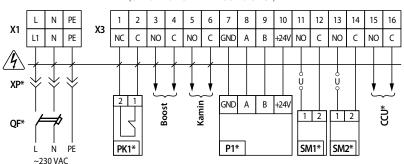
(unit with an A14 controller)



Designation	Unit name	Cable type	Maximum cable length	Note
SM1*	Supply air damper actuator	2x0.75 mm <sup>2</sup>	20 m	
SM2*	Extract air damper actuator	2x0.75 mm <sup>2</sup>	20 m	
PK1*	Contact from a fire alarm panel	2x0.75 mm <sup>2</sup>	20 m	Remove the jumper during installation
P1	Control panel	4x0.25 mm <sup>2</sup>	10 m	
CO₂* or RH*	CO <sub>2</sub> concentration and indoor humidity sensor			
HV2*	Humidity sensor in the exhaust air duct inside the unit			
XP*	Electric plug			
QF*	Automatic circuit breaker			
X1	Terminal block			

## Wiring diagram

(unit with an A21 controller)



Designation	Unit name	Cable type	Maximum cable length	Note
CCU*	Compressor-condenser unit	2x0.75 mm <sup>2</sup>	20 m	3 A. 30 DC/~250 AC
SM1*	Supply air damper actuator	2x0.75 mm <sup>2</sup>	20 m	3 A. 30 DC/~250 AC
SM2*	Extract air damper actuator	2x0.75 mm <sup>2</sup>	20 m	3 A. 30 DC/~250 AC
PK1*	Contact from a fire alarm panel	2x0.75 mm <sup>2</sup>	20 m	
P1*	Control panel	4x0.25 mm <sup>2</sup>	10 m	
HV2*	Humidity sensor in the exhaust air duct inside the unit			
XP*	Electric plug			
QF*	Automatic circuit breaker			
X1. X3	Terminal blocks			
Boost	Contact on/off. Boost mode			
Kamin	Contact on/off. Kamin mode			

<sup>\*</sup>Additionally connected devices are purchased separately. The connection must be made using durable. insulated and heat-resistant conductors (cables. wires). Requirements to a connection cable are shown in the table.



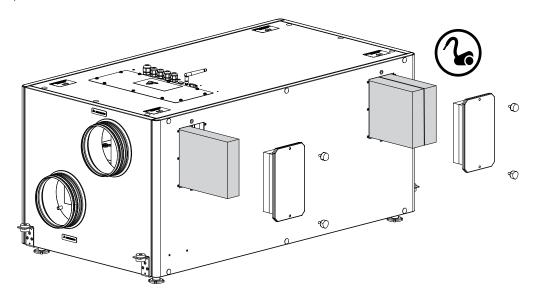
## **TECHNICAL MAINTENANCE**

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

## 1. Filter maintenance.

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. Filter maintenance sequence:

- 1. Unscrew the hand screws on the detachable plates and remove them.
- 2. Pull the dirty filters to remove.
- 3. Clean the filters with a vacuum cleaner.
- 4. Put the filters in place and assemble the unit in the reverse order.



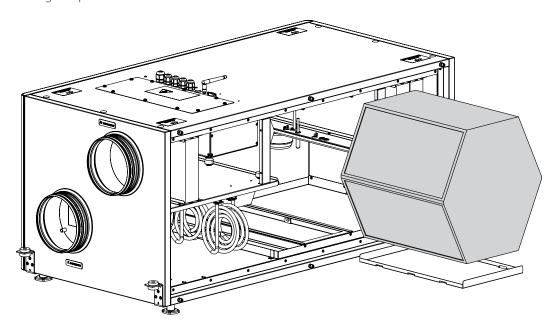


#### 2. Heat exchanger maintenance (once per year).

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. To clean the heat exchanger, remove it from the unit and clean the heat exchanger by using compressed air or a vacuum cleaner. After cleaning, re-install the heat exchanger into the unit.

Heat exchanger maintenance steps:

- 1. Undo the screws on the front panel and remove it.
- 2. Pull the heat exchanger with a condensate drip tray to remove them.
- 3. Remove the heat exchanger from the condensate drip tray.
- 4. Clean the heat exchanger.
  - Wet cleaning (polystyrene heat exchanger): rinse the heat exchanger with a warm detergent solution and leave to dry.
  - Dry cleaning (enthalpy heat exchanger): clean the heat exchanger with a vacuum cleaner using a slotted nozzle.
- 5. Put the heat exchanger in place and assemble the unit in the reverse order.



#### 3. Fan maintenance (once per year).

Even in case of regular maintenance of the filters, some dust may accumulate inside the fans and reduce the fan performance and supply air flow. Clean the fans with a soft cloth, brush, or using compressed air. Do not use water, aggressive solvents, or sharp objects as they may damage the impeller.

## 4. Supply air flow control (twice per year).

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

## 5. Ductwork system maintenance (once in 5 years).

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

## 6. Control unit maintenance (if necessary).

Accessing the control unit is shown in the "Connection to power mains" section.



#### **TROUBLESHOOTING**

PROBLEM	POSSIBLE REASONS	TROUBLESHOOTING		
The fan(s) does not start when	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.		
the unit is on.	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.		
Automatic circuit breaker trips following the unit turning on.	High current consumption caused by a short circuit.	Turn the unit off. Contact the Seller.		
	Low set fan speed.	Set higher speed.		
Low air flow.	The filters and the fans are clogged, the heat exchanger is clogged.	Clean or replace the filters, clean the fans, and the heat exchanger.		
Low all novv.	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.		
	The extract filter is soiled.	Clean or replace the extract filter.		
Cold supply air.	The heat exchanger is soiled.	Clean the heat exchanger.		
	The impeller(s) is soiled.	Clean the impeller(s).		
Noise, vibration.	The fan or casing screw connection is loose.	Tighten the screw connection of the fans or the casing against stop.		
	No anti-vibration connectors on air duct pipe flanges.	Install anti-vibration connectors.		
Water leakage (only for the VUT HB EC, VUT HBE EC).	The drainage system is soiled, damaged, or installed incorrectly.	Clean the drain line. Check the drain line slope angle. Make sure that the U-trap is filled with water and the drain pipes are frost protected.		

## STORAGE AND TRANSPORTATION REGULATIONS

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to +40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
- Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3-4 hours.



## **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 Compatibility (EMC) Directive 2014/30/EU of the European Parliament and of the Council, Low Voltage Directive (LVD) 2014/35/EU of the European Parliament and of the Council and CE-marking Council 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 dismounted 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.



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.



<b>CERTIFICATE OF ACC</b>	LEP	IA	N	CE
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Unit Type	Heat recovery air handling unit
Model	
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

## **SELLER INFORMATION**

Seller		
Address		
Phone Number		1 /
E-mail		
Purchase Date		
This is to certify acceptance acknowledged and accepted.	of the complete unit delivery with the user's manual. The warranty terms are	
Customer's Signature		Seller's Stamp

## **INSTALLATION CERTIFICATE**

The	unit is installed pursuant to the requirements :	stated
in the present user's manual.		
Company name		/
Address		<i>:</i>
Phone Number		
Installation Technician's Full Name		
Installation Date:	Signature:	· ·
	with the provisions of all the applicable local and national constru	uction,

electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.



Signature:

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Installatio	n Stamp
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Heat recovery air handling unit

