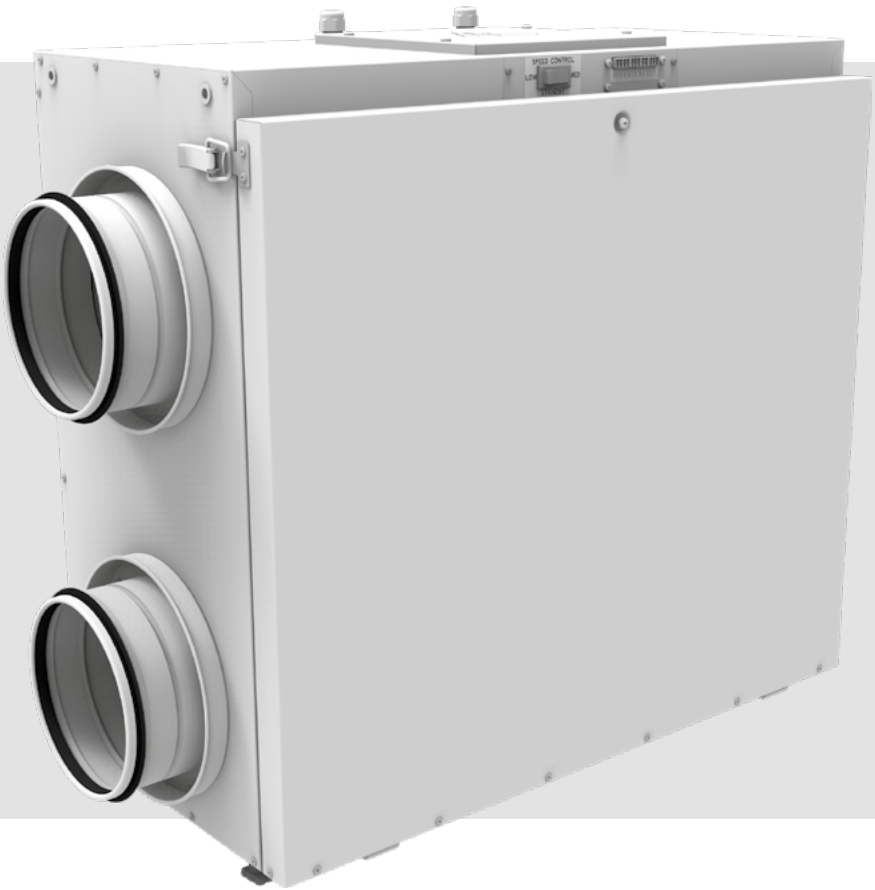
USER'S MANUAL

CUTTER HRV 150 PR EC
CUTTER HRV 150 PR EC M
CUTTER ERV 150 PR EC
CUTTER ERV 150 PR EC M



Air handling unit

VENTS-US

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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 Cutter HRV/ERV 150 PR 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 done by children without supervision.
Children shall not play with the appliance.

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.

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

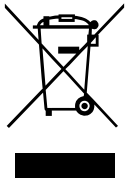
Do not attach the product to the support using glue or adhesives. Use only the fastening method specified in the "User's manual".

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.

- 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 as well as national electrical code 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.
- 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.
- Installation work and electrical wiring must be done by qualified person(s) and only in accordance with local requirements and national electrical code.
- The unit must be grounded!
- Do not bend the power cable.
- Avoid damaging the power cable.
- Do not put any foreign objects on the power cable.
- Do not use damaged equipment or cables when connecting the unit to power mains.
- 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 open the unit during operation.
- Do not block the air duct when the unit is switched on.
- Do not sit on the unit and avoid placing foreign objects on it.
- Unpack the unit with care.
- While installing the unit, follow the safety regulations specific to the use of electric tools.
- Do not lay the power cable of the unit in close proximity to heating equipment.
- Do not operate the unit outside the temperature range stated in the user's manual.

- Disconnect the unit from power mains prior to any technical maintenance and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel
- When the unit generates unusual sounds, odor, or emits smoke, disconnect it from power supply and contact the Seller.
- Do not direct the air flow produced by the unit towards open flame or ignition sources.
- In case of continuous operation of the unit, periodically check the security of mounting.
- Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.
- The unit should not be operated by children or persons with reduced physical, mental, or sensory capacities, or those without the appropriate training.
- The choice of unit installation location must prevent unauthorized access by unattended children.
- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden Utilities.
- Do not mount room-to-room fan in a fire-rated wall.
- 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.
- Ensure that the unit is switched off from the supply mains before removing the guard.
- Do not use to exhaust hazardous or explosive materials and vapors as well as flammable 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).
- Do not store any explosive or highly flammable substances in close proximity to the unit.
- For use in non fire rated installations only.
- For use in one- and two-family dwellings only.
- Do not install in a cooking area or connect directly to any appliance.
- Warning: not suitable for use with solid-state speed controls.



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

DO NOT DISPOSE THE UNIT AS UNSORTED DOMESTIC WASTE.

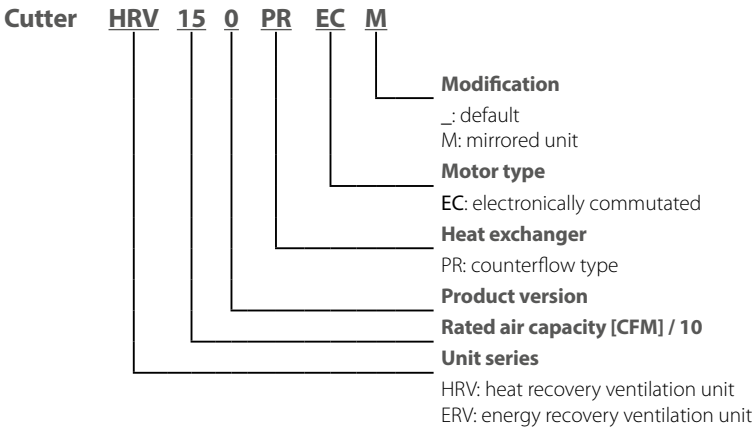
PURPOSE

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	Quantity
Unit	1 pc.
User's manual	1 pc.
Mounting kit	1 pc.
Packing box	1 pc.

DESIGNATION KEY



TECHNICAL DATA

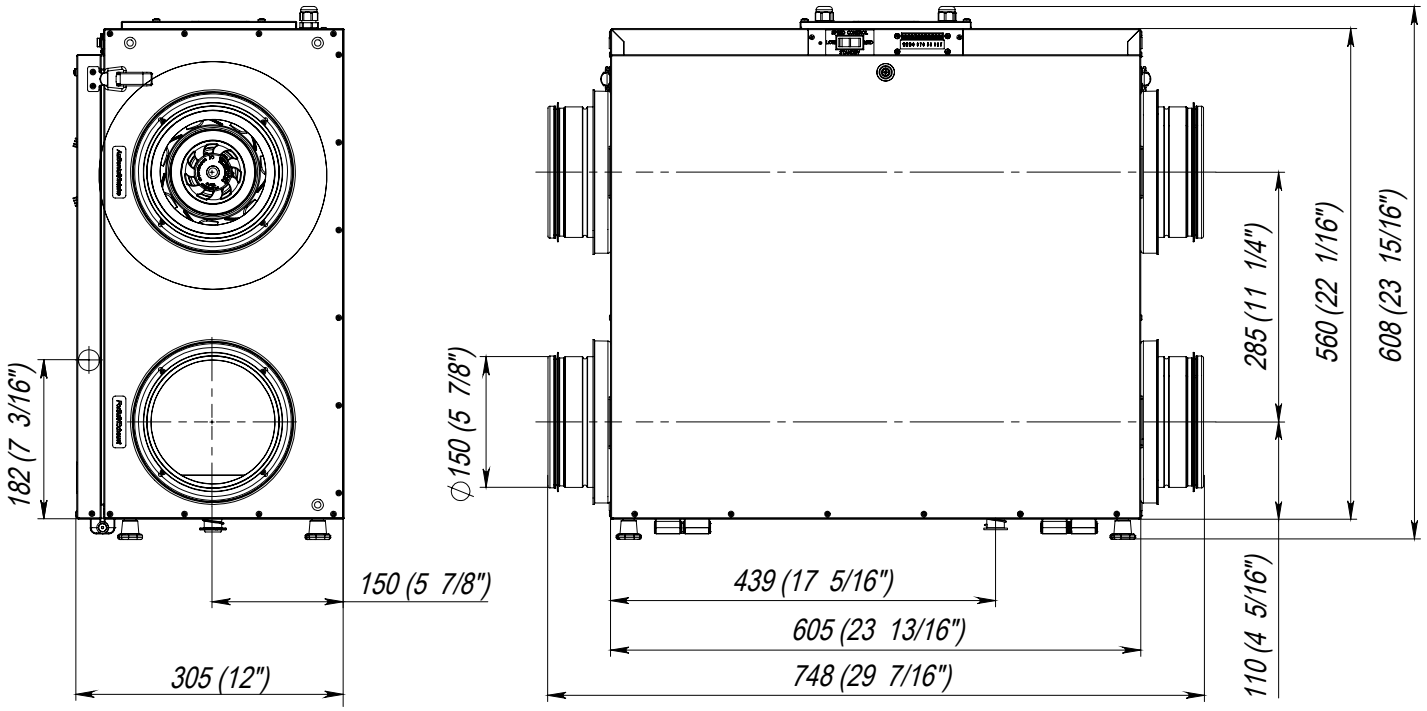
The unit is designed for indoor application at ambient temperature from +1 ˚C (+34 ˚F) up to +40 ˚C (+104 ˚F) and relative humidity up to 80 %.
The unit is rated as a Class I electrical appliance.
Hazardous parts access and water ingress protection rating:

- IP 44 for the unit motors
- IP 22 for the assembled unit connected to the air ducts

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

Model	Cutter ERV 150 PR EC	Cutter HRV 150 PR EC
Voltage [V/60 Hz]	120	120
Nominal power consumption [W]	175	175
Current [A]	2,4	2,4
Rated air flow [cfm @ 0.4 in w. g.]	180	179
Transported air temperature [F (°C)]	from -13 (-25) up to +122 (+55)	from -13 (-25) up to +122 (+55)
Insulation [inch (mm)]	expanded polystyrene foam 1" (25)	expanded polystyrene foam 1" (25)
Extract filter: material/filtration class	Poret PPI 20/MERV5	Poret PPI 20/MERV5
Supply filter: material/filtration class	Poret PPI 20/MERV5	Poret PPI 20/MERV5
Connected air duct diameter [inch (mm)]	Ø 6" (150)	Ø 6" (150)
Weight [lbs]	44	44
Weight [kg]	20	20
Heat exchanger type	Counterflow	Counterflow
Heat exchanger material	Enthalpy membrane	Polystyrene

Overall dimensions

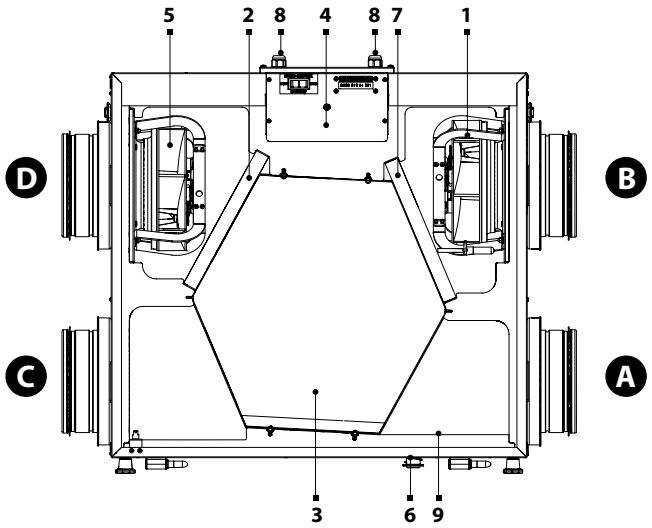


DESIGN AND OPERATING PRINCIPLE

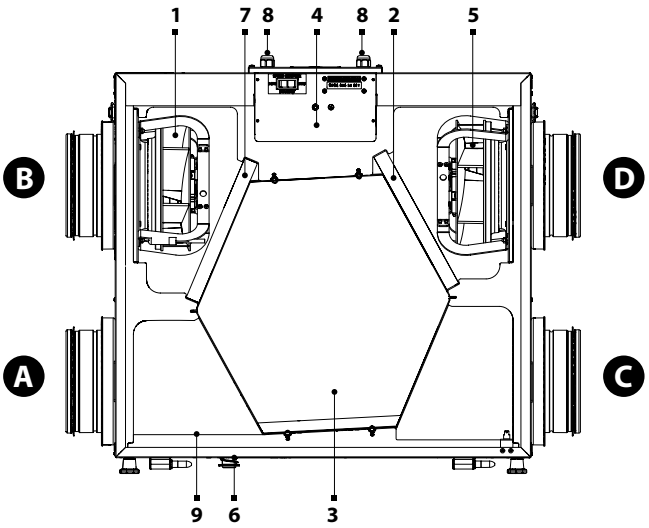
The unit has the following operating logic: warm stale air from the room flows into the unit, where it is filtered by the extract filter, then the air flows through the heat exchanger and is exhausted outside by the exhaust fan through the air ducts. Cold fresh air from the outside flows into the unit,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

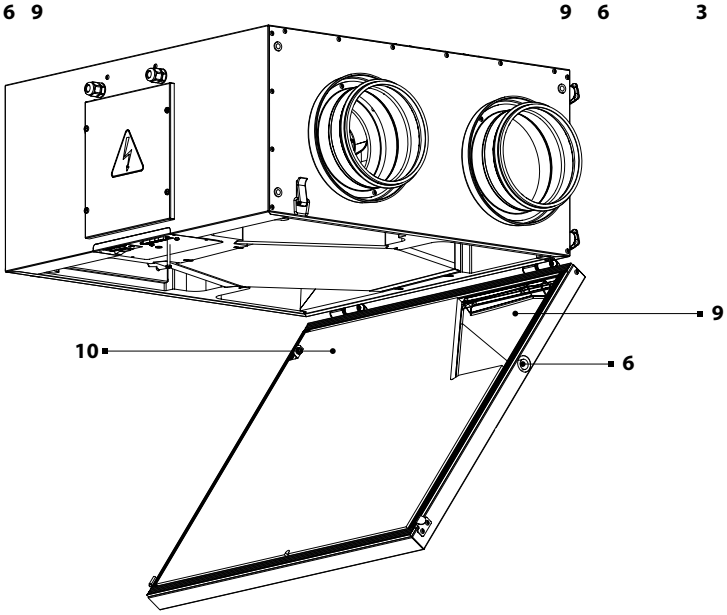
SERVICE PANEL SIDE VIEW

Cutter HRV/ERV 150 PR EC



Cutter HRV/ERV 150 PR EC M





1 – supply fan, 2 – extract filter, 3 – heat exchanger, 4 – control unit, 5 – exhaust fan, 6 – drain hole, 7 – supply filter, 8 – cable glands, 9 – drain pan, 10 – service panel.
A – exhaust air, B – intake air, C – supply air, D – extract air.

The removable service panel enables repair and maintenance works. The power and grounding cables are connected to the control unit via the cable glands.
The temperature difference between the supply and extract air streams of the Cutter HRV 150 PR EC unit leads to condensate formation. It is collected in the drain pan and removed through the drain hole.

MOUNTING AND SET-UP

ALL OPERATIONS DESCRIBED IN THIS USER'S MANUAL MUST BE PERFORMED BY QUALIFIED PERSONNEL ONLY, PROPERLY TRAINED AND QUALIFIED TO INSTALL AND MAINTAIN VENTILATION EQUIPMENT.

DO NOT ATTEMPT TO INSTALL THE PRODUCT YOURSELF.

IT IS UNSAFE AND IMPOSSIBLE WITHOUT SPECIAL KNOWLEDGE.

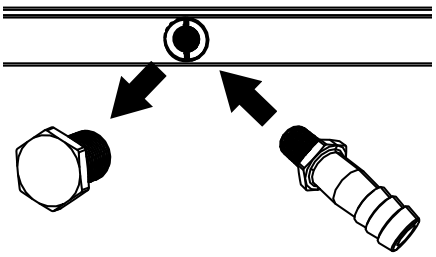
IF A UNIT HAVING PROVISION FOR CONNECTION OF A FRESH AIR DISCHARGE DUCT DOES NOT ALSO HAVE PROVISION FOR CONNECTION OF AN INDOOR AIR INTAKE DUCT, APPLICABLE INSTALLATION CODES MAY LIMIT THE UNIT TO INSTALLATION ONLY IN A SINGLE-STORY RESIDENCE.

Condensate drainage

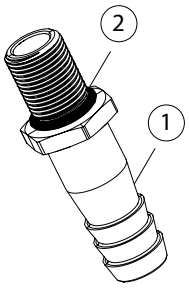
Cutter HRV 150 PR EC units require condensate drainage.

Recommendations for organizing condensate drainage are given below. All components of the system are not included in the delivery set of the unit and must be purchased separately. The manufacturer of the ventilation system is not responsible for the operability of the condensate drainage system installed at a particular facility.

When installing the units on the floor, allow sufficient distance from the floor to the bottom of the unit to fit the entire condensate drainage system. Remove the plug from the unit cover. Connect the drainage pipe with the sealing gasket.



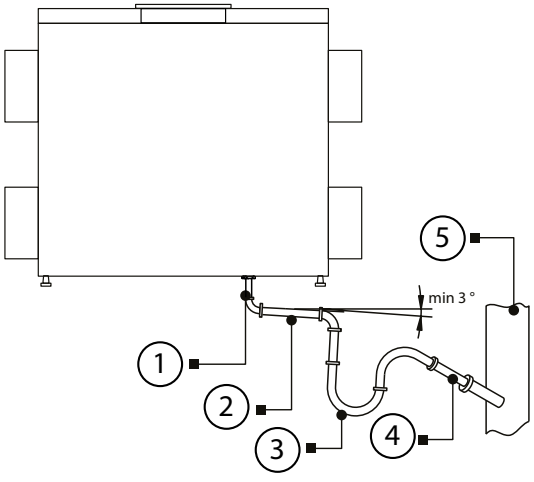
Installation of the drain pipe when mounting the unit

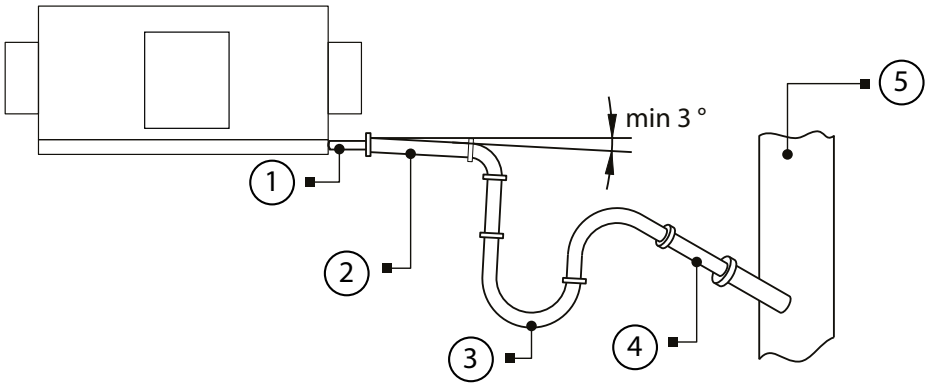


The drain pipe (1) with the sealing gasket (2)

Attach a U-trap to the pipe.

Connect the drain pipe, U-trap and the sewage system with metal, plastic or rubber connection pipes. The condensate drainage system drawing is presented below. The minimum downward slope of the pipes must be 3°.



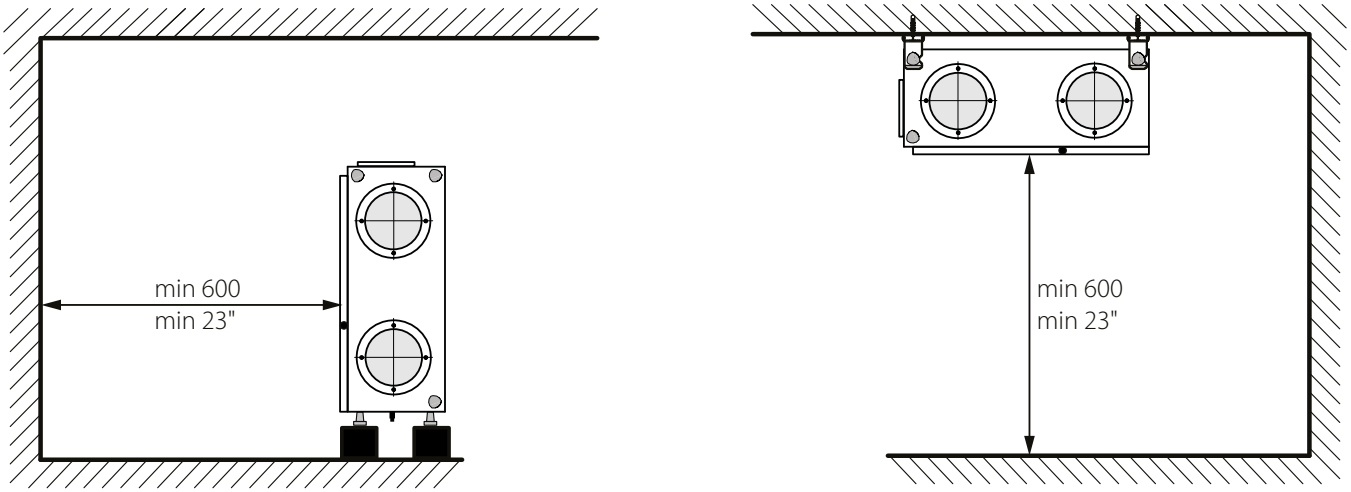


1 – drain pipe; 2 – connecting pipe; 3 – U-trap; 4 – connecting pipe; 5 – sewage system.

Before starting operation, provide free drainage for the condensed water through the sewage system. Fill up the U-traps with water before using the system.The trap must be filled with water at all times as long as the system is operating.
The condensate drain system is designed for use in premises with ambient temperature above 0 °C (+32 °F)! If the air temperature is below 0 °C (+32 °F), the condensate drainage system must be equipped with heat insulation and pre-heating Cutter ERV 150 PR EC modifications do not require condensate drainage.

Unit mounting

The unit can be mounted on the floor, on the wall, or suspended.
During installation works sufficient maintenance and service access must be provided.
The recommended minimum distances from the unit to the walls for all mounting options are shown in the picture below.

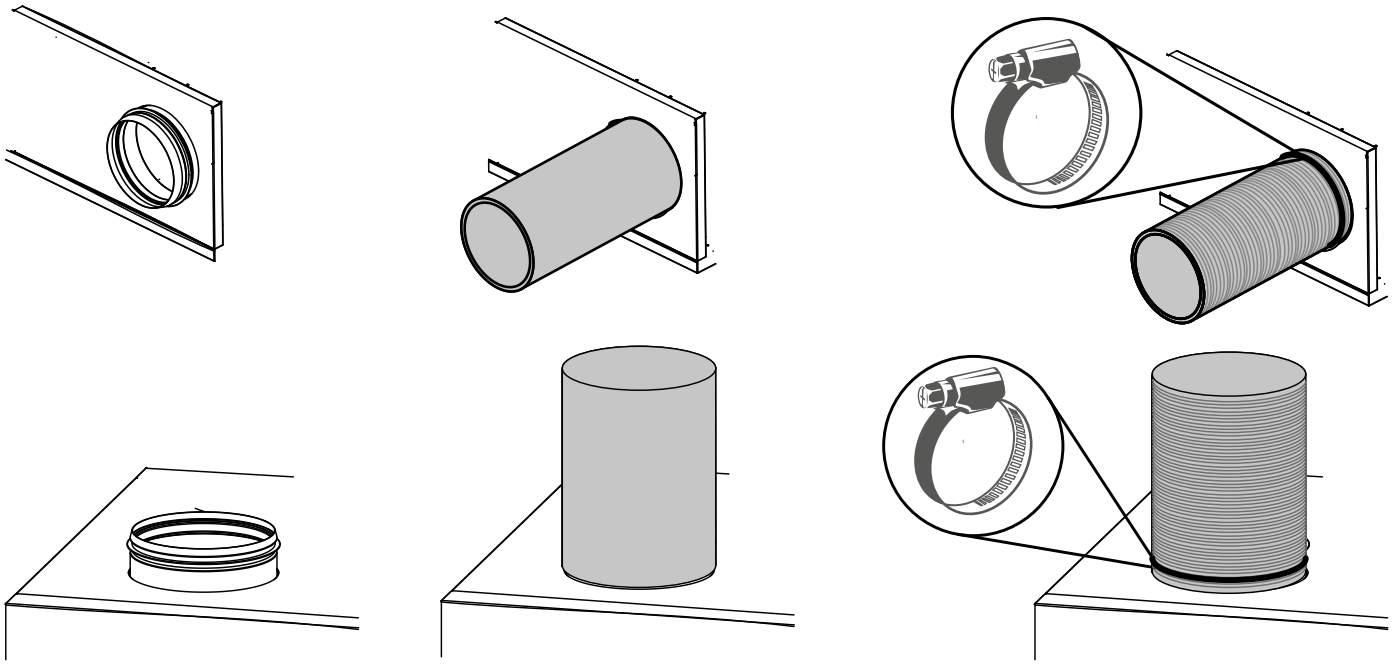


To attain the best performance of the unit and to minimize turbulence-induced air pressure losses while mounting connect a straight air duct section on both sides of the unit.

The minimum recommended straight air duct length is equal to:
- 1 air duct diameter on the intake spigot side;
- 3 air duct diameters on the extract spigot side.

EACH VENTILATION UNIT MUST BE CONNECTED TO AN INDIVIDUAL U-TRAP IRRESPECTIVELY OF THE VENTILATION UNIT TYPE

The air ducts must be slipped over the unit flanges until tight. Flexible air ducts must be rigidly fixed with a metal worm clamp.

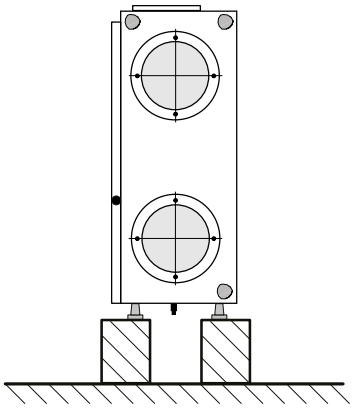


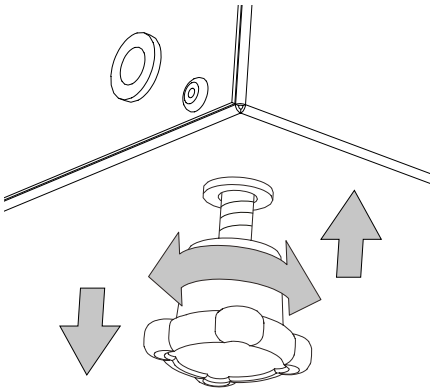
If the air ducts are too short or not connected to one or multiple spigots of the unit, protect the parts inside the unit from ingress of foreign objects.
To prevent uncontrollable access to the fan the spigots may be covered with a protecting grille or other protecting device with mesh width not more than 12.5 mm (1/2").
The surface for unit mounting must be smooth.
Mounting the unit on an uneven surface causes the unit casing to skew, which may disrupt intended operation.
Secure the mounting brackets on the wall or ceiling, depending on the mounting type chosen.

UNIT MOUNTING EXAMPLES

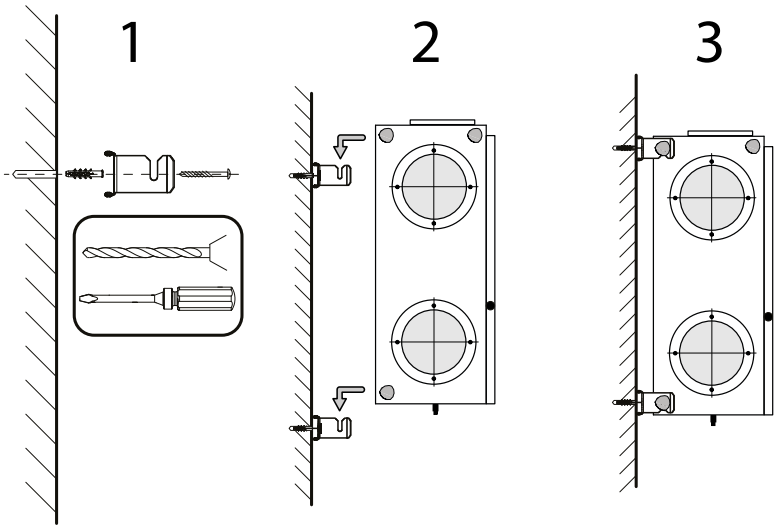
Floor mounting

Install the unit on the pre-mounted floor supports to ensure sufficient access for the drain pipe connection to the U-trap and for condensate drain system installation.
The unit is supplied with removable legs, which can be used to adjust the horizontal position of the unit.

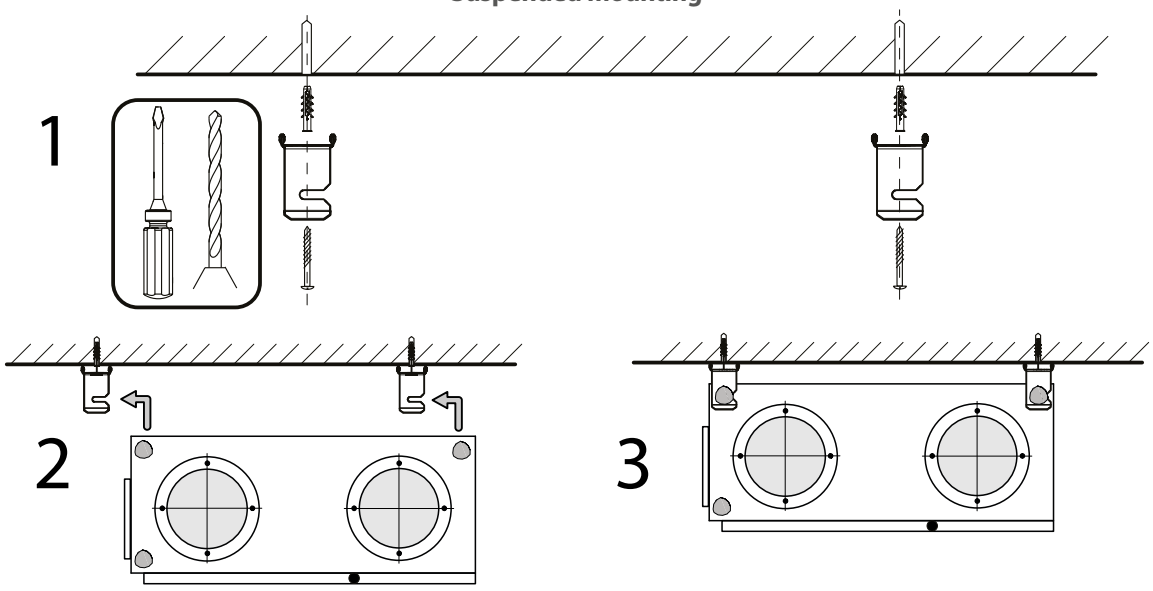




Wall mounting



Suspended mounting

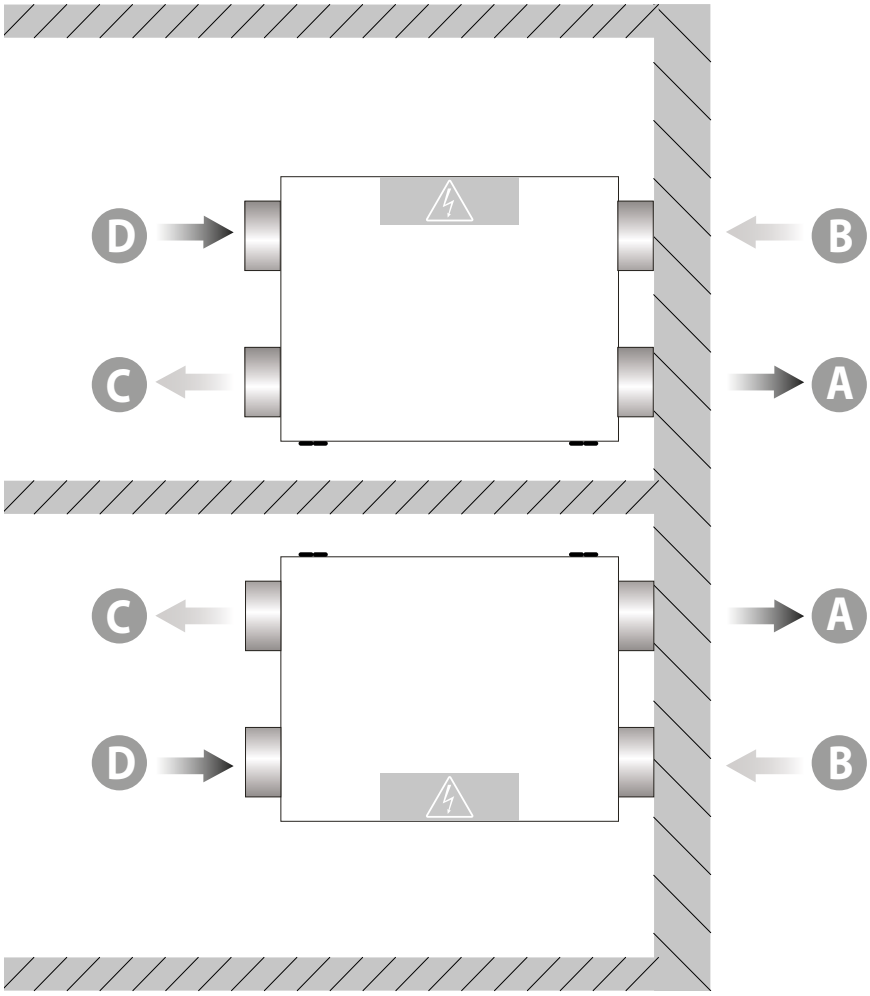


UNIT DESIGN

To ensure comfortable installation and provide space for accessing the unit, left and right design types of the unit are made.

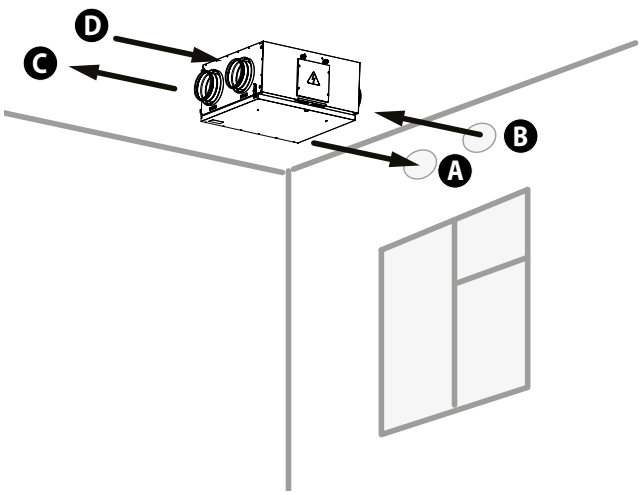
Top view

Cutter HRV/ERV 150 PR EC M

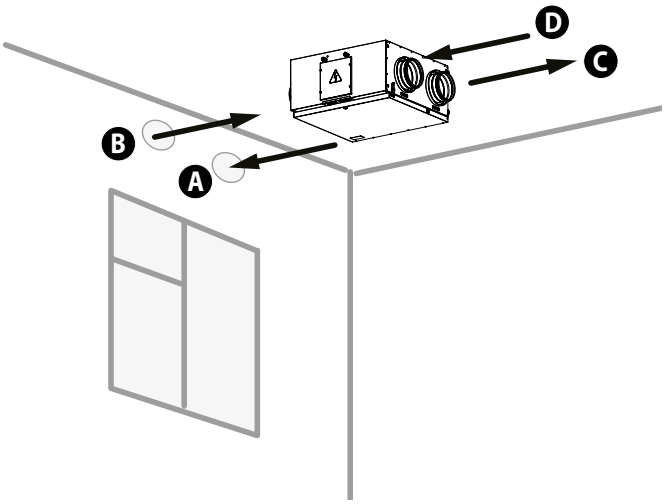


Cutter HRV/ERV 150 PR EC

Cutter HRV/ERV 150 PR EC



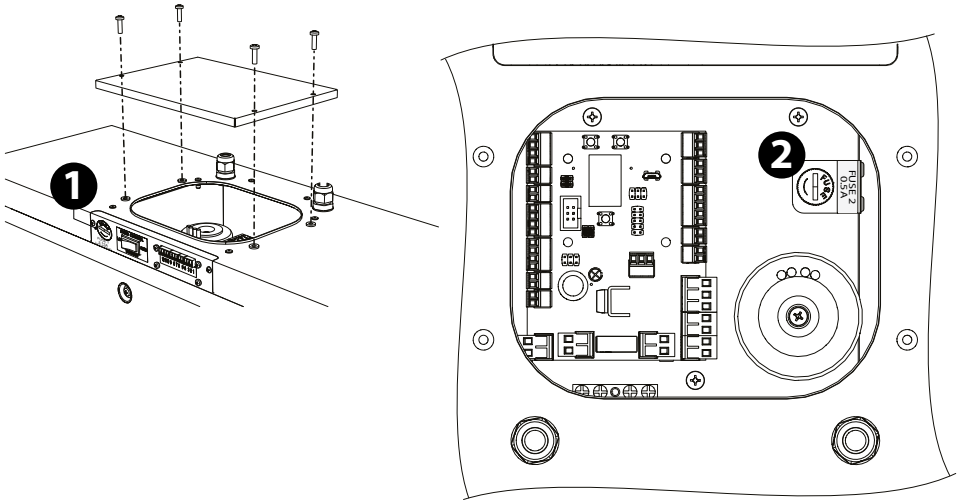
Cutter HRV/ERV 150 PR EC M



A – exhaust air, B – intake air, C – supply air, D – extract air.

CONNECTION TO POWER MAINS

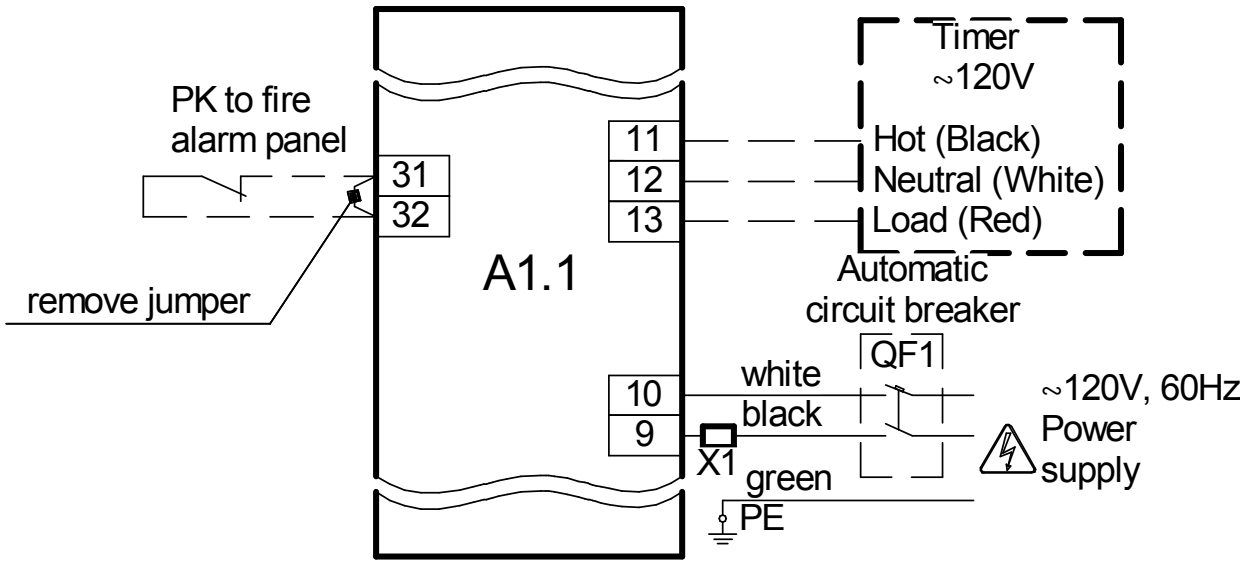
The unit is designed for connection to power mains with the parameters specified in the technical data table.
The appliance is equipped with overload protection with 3.15A (glass 5x20 slow) and 0.5A (glass 5x20 slow) fuses. In case of overload or short circuit, the fuse blows.
To replace the fuse, disconnect the unit from the power supply, remove the control unit cover as shown in the figure below. Then replace the fuse.
Only install fuses with the rated current specified on the label.
If the fuse blows again, contact the service center.



1 – protection fuse 3.15 A; 2 – protection fuse 0.5 A

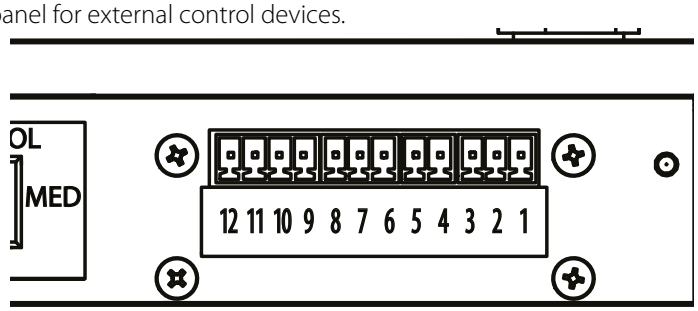
To connect external devices to the controller board, remove the control box cover as shown above, route the cables through the cable glands and connect them according to the wiring diagram.

EXTERNAL WIRING DIAGRAM

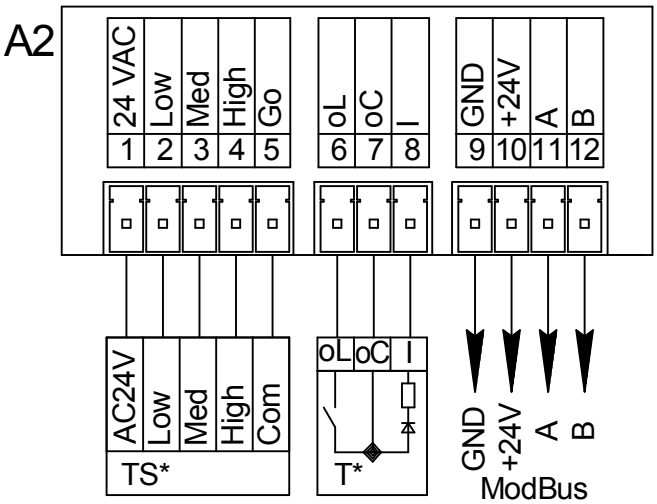


– Electric shock hazard! / Risque de choc électrique!

There is a connector on the front panel for external control devices.



Connect external devices according to the following diagram.



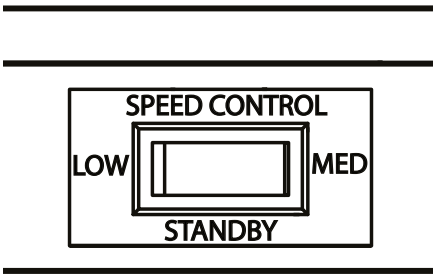
Design/Désign	Name/Nom	Cable/Câble
TS*	Thermostat	5x0.5(21AWG)
T*	Timer / Minuteur	3x0.5(21AWG)

* - The units are not included in the delivery set and are available as specially ordered accessories. / Non inclus dans le kit de livraison et à acheter séparément.

UNIT CONTROL

- Permanent low-speed mode or standby mode
- High-speed mode

The unit has a three-position speed switch. **LOW** or **MED** speed are used to set permanent operation mode or to set the **STANDBY** mode.
The external controls switch the ventilation unit to the high-speed mode.
The supply and extract fan speed is individually adjusted.
The air capacity is controllable from 0 % up to 100 %.



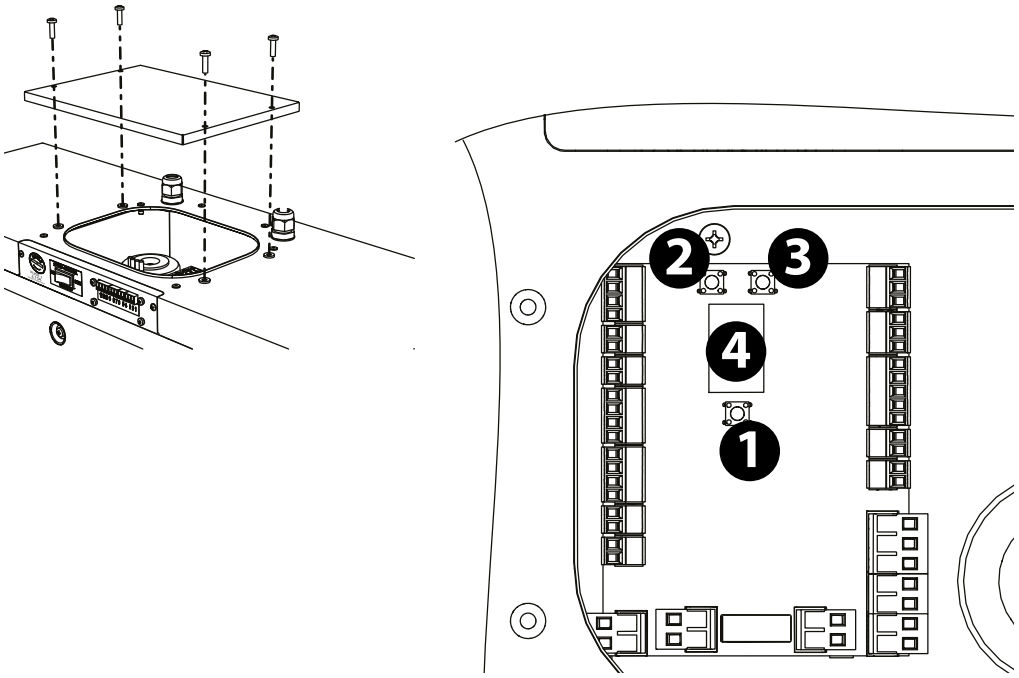
SPEED SETTING

The control system enables equal speed settings or synchronous speed correcting for the supply and extract fan (see **ALL**).
If the air resistance differential in the supply and extract air ducts the speed of the supply and extract fan can be individually adjusted and this setting will be saved in the controller memory (see **SPL** and **Eht**, respectively).
The controller circuit board has a digital indicator and **«KEY1»**, **«KEY2»**, **«KEY3»** buttons which are used for operation mode setup and editing of the operation parameters. After switching on power the ventilation unit operates normally and the light indicator is off. Press **«KEY1»** to open the setup menu. Select the required menu item using the buttons **«KEY2»** and **«KEY3»**. The display shows the current setting of the menu item:

- **«ALL»**: actual speed setting for both the supply and extract fans over the range from 0 % up to 100 % (displayed as previously set speed setting for the supply fan). For example, in case of activated **LOW**-speed mode, editing of this parameter will result in change of the low speed setting both for the supply and extract fans. To display or change this parameter press **«KEY1»** and set a required value using the buttons **«KEY2»** and **«KEY3»**. Then press **«KEY1»** to save the value in the nonvolatile memory and return to the setup menu.
- **«SPL»**: activated speed setting of the supply fan displayed percentagewise over the range from 0 % to 100 %. For example, in case of activated MEDIUM-speed mode, editing of this parameter will result in change of the supply fan MEDIUM speed setting. To display or change this parameter press **«KEY1»** and set a required value using the buttons **«KEY2»** and **«KEY3»**. Then press **«KEY1»** to save the value in the nonvolatile memory and return to the setup menu.
- **«Eht»**: activated speed setting of the extract fan displayed percentagewise over the range from 0 % to 100 %. For example, in case of activated HIGH-speed mode, editing of this parameter will result in change of the HIGH speed setting for the extract fan. To display or change this parameter press **«KEY1»** and set a required value using the buttons **«KEY2»** and **«KEY3»**. Then press **«KEY1»** to save the value in the nonvolatile memory and return to the setup menu.
- **«dEF»**: reset to the factory settings (default settings). To reset to the factory settings press **«KEY1»**, then select **«-Y-»** using the **«KEY2»** and **«KEY3»** buttons and press the **«KEY1»** button.
  To edit the factory settings, select the **«-n-»** value using the **«KEY2»** and **«KEY3»** buttons and press the **«KEY1»** button. The ventilation unit revers to the manual settings.
- **«Cor»**: temperature corrections. To correct the temperature value communicated by the temperature sensor, press the **«KEY1»** button, change the temperature setpoint using the **«KEY2»** and **«KEY3»** buttons, then press the **«KEY1»** button.
- **«Prg»**: software version. Press the «KEY1» button to display it.

In case of alarm the alarm message «Err» is displayed. To detect the alarm root, press the **«KEY1»** button and review the list of all alarm messages using the **«KEY2»** and **«KEY3»** buttons.
The alarm message consists of a number (1, 2, 3) and a letter (n, Y).
The number determines the alarm message type.
1: fire alarm activation.
2: temperature sensor short circuit
3: temperature sensor breakout
The letter indicates no alarm (n) or available alarm (Y).
Example:
«1-Y»: fire alarm activation. If the fire alarm panel is disconnected, it means that the controller contacts 31 and 32 are not jumpered.
«2-Y»: temperature sensor short circuit.
«3-n»: no temperature sensor breakout.

The diagram below shows how to access the controller board and the location of the indicator and keys on the board.



1 – KEY1; 2 – KEY2; 3 – KEY3; 4 – HL1 light indicator

FREEZE PROTECTION OF THE HEAT RECOVERY CORE

The freeze protection function prevents freezing of the heat recovery core in the cold season. This function is activated automatically and cannot be turned on or off. The ventilation unit periodically switches from rated operation mode to the special defrost mode (the extract fan runs in high speed, the supply fan is off) and vice versa according to the signaling from the outdoor temperature sensor. The temperature conditions for this mode are described in the table below.
The temperature conditions for this mode are described in the table below.

Air temperature in the air duct for the incoming fresh air	Duration of the operation in the respective mode [min]	
	Defrost mode	Rated mode
Above 23 F (- 5 °C)	-	permanent
From 5 F (- 15 °C) up to 23 F (-5 °C)	10	30
From -17 F (- 27 °C) up to F (-15 °C)	6	20
Below -17 F (- 27 °C)	10	15

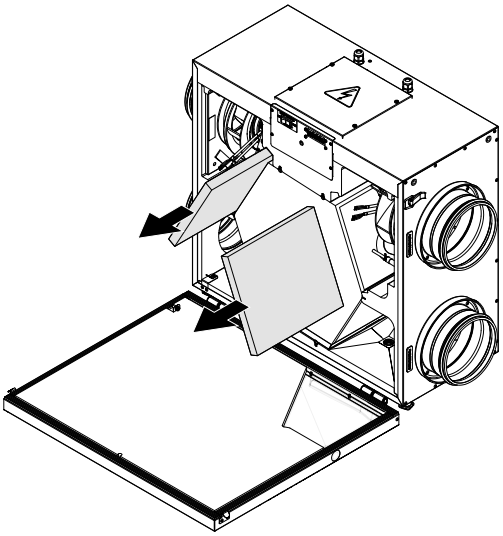
TECHNICAL MAINTENANCE

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.

Clogged filters increase air resistance in the system and reduce supply air volume.
The filters require cleaning as they get clogged, but at least 3-4 times per year.
Vacuum cleaning is allowed. After two consecutive cleanings the filters must be replaced. For new filters, contact the Seller.
Steps for removing the filters:

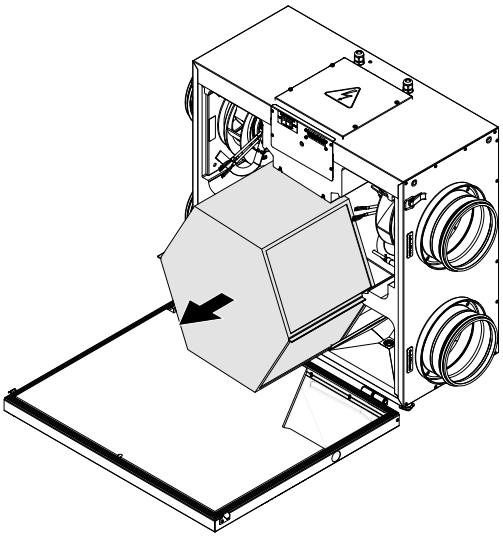
1. Disconnect the unit from power supply.
2. Open / remove the service panel
3. Pull the filters to remove them.



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.
Before removing the heat exchanger, unscrew the screws and remove the panel.
Steps for removing the heat exchanger:

1. Disconnect the unit from power supply.
2. Open / remove the service panel
3. Pull the heat exchanger to remove it.



3. Fan maintenance (once per year).
Even in case of regular maintenance of the filters and the heat exchanger, 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. Maintenance of air intake devices (twice per year).
The supply grille may get clogged with leaves and other objects, which reduces 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 (as required).
The control unit is located inside the unit casing.
For accessing the control unit remove the fixing screws on the panel and remove the control unit cover.

TROUBLESHOOTING

Possible faults and troubleshooting

Problem	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 a 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.
The unit does not turn on, Err is constantly lit on the indicator.	Alarm in the system.	Contact the Seller.
Automatic circuit breaker trips following the unit turning on.	Overcurrent as a result of short circuit in the electric line.	Turn the unit off. Contact the Seller.
Low air flow.	Low set fan speed.	Set higher speed.
	The filters and the fans are clogged, the heat exchanger is clogged.	Clean or replace the filters, clean the fans, 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, louvre shutters, grilles.
Cold supply air.	The extract filter is soiled.	Clean or replace the extract filter.
Noise, vibration.	The impeller(s) is clogged.	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 HRV units)	The drainage system is soiled, damaged or arranged not correctly.	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 (+4 ˚F) to +40 ˚C (+104 ˚F) 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

Production meets standard operating requirements in the USA and Canada.
Vents US warrants to the original purchaser of the unit that it will be free from defects in materials or workmanship for a period of 24 months from the date of original purchase. The Vents US warrants to the original purchaser of the unit that the integrated control unit will be free from defects in materials and workmanship for a period of 24 months from the date of original purchase.

THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

During the stated warranty period, Vents US will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service. This warranty does not cover (a) normal maintenance and normal service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by Vents US), faulty installation or installation contrary to recommended installation instructions. Labor to remove and replace products is not covered. The duration of any implied warranty is limited to the time period specified for the express warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

VENTS US OBLIGATION TO REPAIR OR REPLACE, AT VENTS US OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. VENTS US SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE.

Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty supersedes all prior warranties. If proof of sales date is absent, warranty period is calculated from the production date. The unit can be exchanged at the following address:

Vents-US
400 Murray Road, Cincinnati, OH 45217, USA
Tel: 1-888-640-0925, 513-583-5786, Fax: 513-268-4597
E-mail: support@ventsus.com
www.vents-us.com

Please follow guidelines in this manual for product problem-free operation.

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	Air handling unit
Model	
Serial Number	
Manufacture Date	
Quality Inspector's Stamp	

SELLER INFORMATION

Seller	
Address	
Phone Number	
E-mail	
Purchase Date	
This is to certify acceptance of the complete unit delivery with the user's manual. The warranty terms are acknowledged and accepted.	
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		
Phone Number		
Installation Technician's Full Name		
Installation Date:	**Signature:**	
The unit has been installed in accordance with the provisions of all the applicable local and national construction, electrical and technical codes and standards. The unit operates normally as intended by the manufacturer.		
Signature:		

Installation Stamp

WARRANTY CARD

Unit Type	Air handling unit
Model	
Serial Number	
Manufacture Date	
Purchase Date	
Warranty Period	
Seller	

Seller's Stamp

VENTS-US

Manufacturer: Ventilation Systems LLC,
Ukraine, Kyiv, 1 M. Kotsyubynskoho Street
Address of production facilities:
Ukraine, Kyiv Region, Fastiv District, Boyarka, 36 Sobornosti Street

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