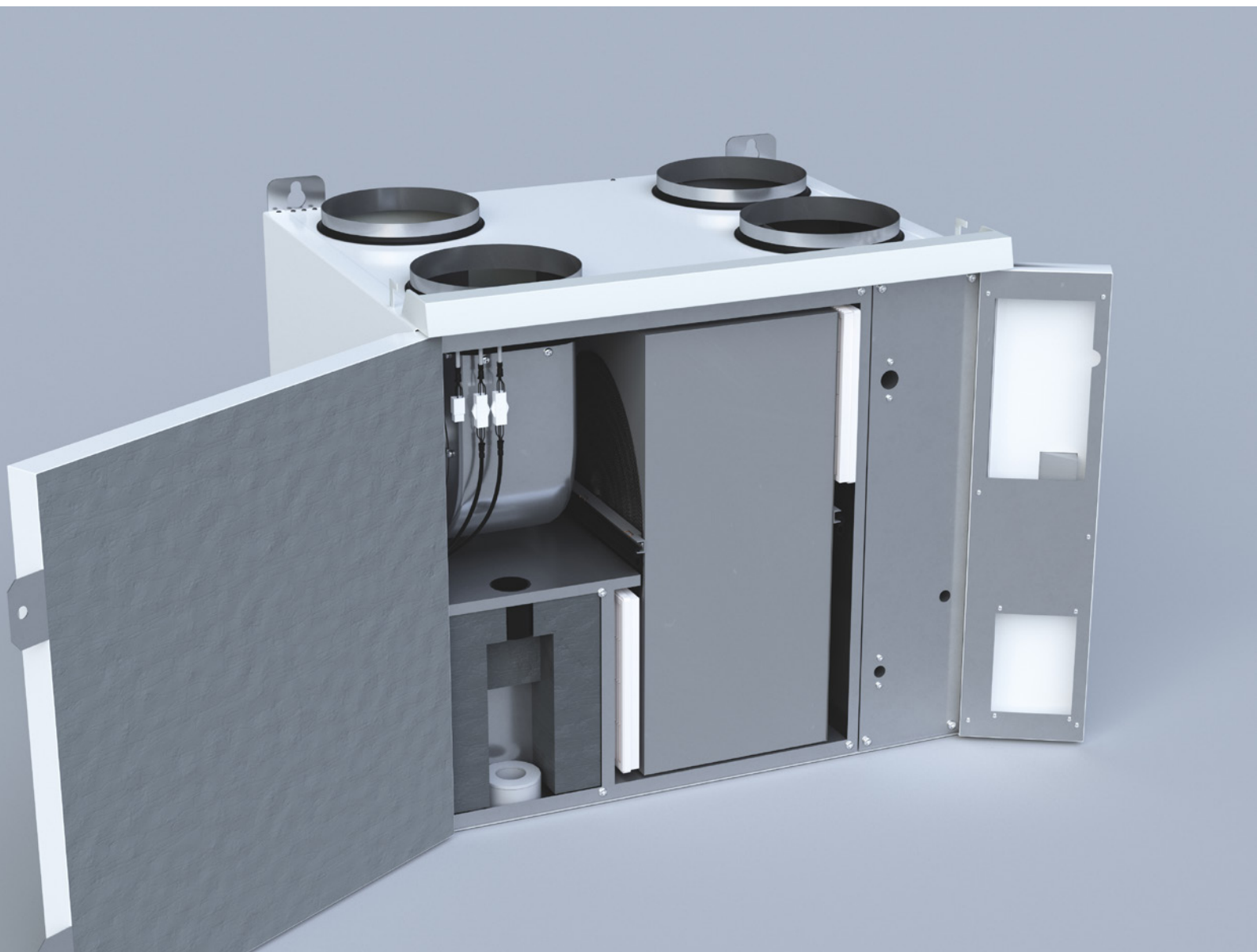


Enervent Salla eWind

Operating and maintenance instructions for the ventilation unit



enervent

Copyright © Enervent Zehnder Oy 2018.

Unauthorised copying and distribution is prohibited.

CONTENTS

| | |
|---|----|
| READ FIRST | 4 |
| INTENDED USE | 4 |
| SAFETY | 5 |
| General information..... | 5 |
| Electrical safety | 5 |
| TYPE PLATE..... | 5 |
| USING THE VENTILATION UNIT | 6 |
| Daily use of the ventilation | 6 |
| Operation modes | 6 |
| EFFICIENT USE OF THE VENTILATION..... | 9 |
| Use of the ventilation during the cold season | 8 |
| Filters | 8 |
| Filter replacement..... | 8 |
| ADDITIONAL FUNCTIONS..... | 10 |
| Maintenance reminder display | 10 |
| Set-up display..... | 10 |
| SETTINGS..... | 11 |
| Supply air is too warm | 11 |
| Supply air is too cold..... | 11 |
| Ventilation is insufficient | 12 |
| Ventilation is noisy | 12 |
| Indoor air is too humid..... | 12 |
| Ventilation does not work..... | 12 |
| MAINTENANCE | 13 |
| Maintenance reminder..... | 13 |
| Filters..... | 13 |
| ADDING WATER TO THE WATER TRAP (DRAINAGE OF THE CONDENSATION WATER) | 15 |
| TROUBLESHOOTING | 16 |
| QUICK REFERENCE GUIDE FOR THE USER..... | 20 |

READ FIRST

This instruction manual is intended for all the users of the Enervent ventilation units. Only qualified professionals may install the equipment described in this manual in accordance with the manufacturer's instructions and the local laws and regulations. If the instructions provided in this manual are not followed, the warranty for the equipment becomes void and damages may be caused to persons or property.

The equipment described in this manual may not be used by persons (including children) with reduced physical, sensory or mental capacity or without sufficient experience or knowledge, unless a person responsible for their safety is supervising and advising them in the use of the equipment.

INTENDED USE

The intended use of the unit is the improvement of indoor air quality, and its primary function is ventilation.

The unit is also used for the recovery of heat energy from the exhaust air. Depending on the model and the accessories, the unit can also be used for cooling the supply air in the summer. Moreover, the unit can also be used for adjusting the humidity and carbon dioxide levels of indoor air.

General information

DANGER

Always check that the supply voltage to the equipment is switched off before opening the service hatch.

WARNING

In case of a malfunction, always determine the reason for the malfunction before restarting the unit.

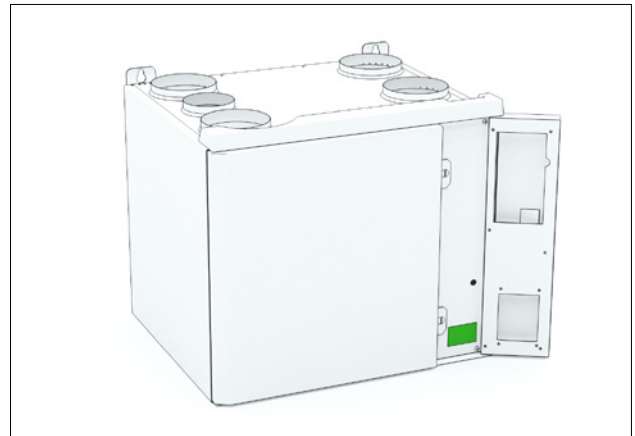
WARNING


When you have switched off the power to the unit, wait for two (2) minutes before starting the maintenance work. Even though the power is switched off, the fans continue running and the post-heating coil remains hot for a while.

Electrical safety

DANGER

Only an authorised electrician may open the electrical box.

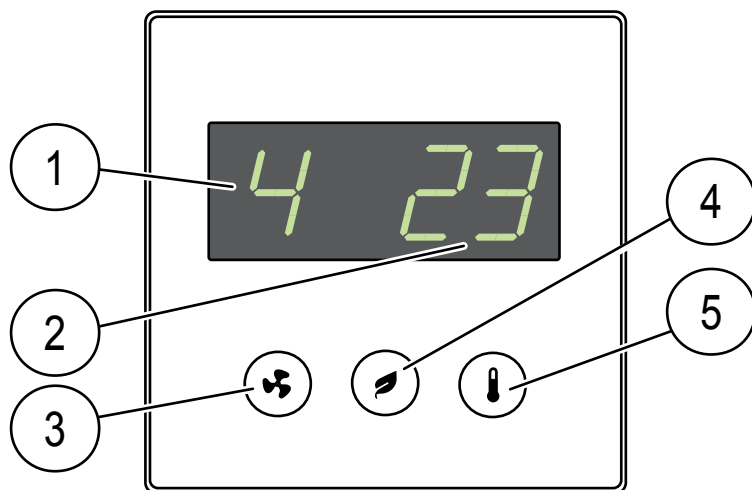


| | |
|--|--|
| enervent <i>ilmanvaihtolaite</i> <i>ventilation unit</i> | |
| TYYPPI/TYPER: | |
| W/ V/ HZ / A: | |
| SRJ. NRO/SERIAL NO: | |
| www.enervent.com | IP 20  CE EAC |

If you need technical support, please check the equipment type and serial number from the type plate.

USING THE VENTILATION UNIT

When the ventilation system has been carefully designed and installed, it requires only little maintenance by the user. The user can just relax and enjoy the good ventilation.



| Button/display | Description |
|---------------------|---|
| Mode display | Current operation mode |
| Temperature display | Supply air target temperature |
| Mode button | Operation mode selection (parameter browsing) |
| Eco button | Eco mode selection (parameter browsing) |
| Temperature button | Supply air target temperature selection |

NOTE:

Some functions of the control panel are only intended for installation or maintenance purposes.

eWind control panel

eWind control panel

1. *Mode (standard display)* 2. *Temperature (standard display)* 3. *Mode button*
 4. *Eco button* 5. *Temperature button*

Daily use of the ventilation

The ventilation is adjusted with an easy-to-use control panel, whose operation is based on actual operating situations. The operation modes that based on these situations cover all the ventilation needs of your home. When you select the operation mode, the operation of the ventilation unit is changed accordingly. The installer of the unit sets the operation modes in connection with the commissioning of the ventilation.

The control panel is normally in standby mode, in which case the display is dimmed. The unit can be activated by pressing any button.


Operation modes

- 1 = Away (when you are not at home)
- 2 = Home (when you are at home)
- 3 = Home (when you are at home, boosted ventilation)
- 4 = Boosted (when the ventilation needs to be boosted even more)
- F-PL = Fireplace mode (when lighting a fire in the fireplace)
- HEAt = Heating on/heating off
- Eco = Energy-saving ventilation
- PdC = Range hood mode

Away mode (1)

You can reduce ventilation when you are going to be away for an extended period of time, e.g., due to a trip.

Setting:


- 1 Go to mode 1 by pressing button .
- The ventilation system will enter the selected mode.

NOTE:

The Away mode can also be selected using an external switch (if installed).


Home mode (2)

When you are at home, the ventilation unit functions normally in Home mode. Setting:

- 1 Go to mode 2 by pressing button .
- The ventilation system will enter the selected mode.

Home mode, boosted ventilation (3)


If you need more efficient ventilation, you can increase the airflow. Setting:

- 1 Go to mode 3 by pressing button .
- The ventilation system will enter the selected mode.

Boosted mode (4)

When you have visitors, the ventilation intended for everyday use may not be sufficient. This may be the case, for example, when several people are having a sauna.

Setting:


- 1 Go to mode 4 by pressing button .
- The ventilation system will enter the selected mode. There is a time limit in the boosted mode. The passing of time is displayed with the aid of alternating bars that come after the number of the mode.

NOTE:

If the Boosted mode is controlled with an external button, the mode will remain on as long as the button is activated. When the button is released, the Boosted mode will remain on for the duration set in the system. The factory setting is 2 hours.

Changing the supply air temperature

The desired supply air temperature (displayed on the display) is set in connection with the installation of the system. You can adjust the temperature on the scale of 15...22°C. Adjustment:

- 1 Go to the desired target temperature by pressing button .
- The system adjusts the efficiency of heat recovery or the effect of the post-heating/post-cooling accordingly.

Fireplace mode

The Fireplace mode may be useful when you are lighting a fire in the fireplace.


WARNING

The fireplace mode is only intended to be used when lighting a fire in the fireplace. It is not intended to be used as the source of make-up air when using the fireplace.


TIP

Unnecessary use of the fireplace mode causes unnecessary waste of energy.

Setting:

- 1 Press button  for 3 seconds. First, the text **on** will be displayed for a short period of time, and then the text **F-PL** will be displayed.

Returning to the Home mode:

- 1 Press button  for 3 seconds. First, the text **oFF** will be displayed for a short period of time. Then the display will return to the standard view.

NOTE:

The default duration of the Fireplace mode is 10 minutes, and it can be selected no more than twice a day. When the period has elapsed, the system will return to the previous mode.

The Fireplace mode can also be selected using an external Fireplace button (if installed).


If a range hood has been connected to the unit, the fireplace mode will not be available.

Range hood mode


In the range hood mode, the unit boosts the ventilation and removes fumes from the stove more efficiently. When the range hood has been connected to the unit and the range hood boosting has been activated from the hood, the text 'PdC' is displayed on the screen. At that point, the unit's mode cannot be changed from the eWind control panel.

Heating mode

In the Heating mode, the supply air is heated using an integrated heater. Setting:

- 1 Press button  for 3 seconds. First, the text **HEAt** will be displayed for a short period of time. Then the display will return to the standard view.

Returning to the Home mode:

- 1 Press button  for 3 seconds. First, the texts **HEAt** and **oFF** will be displayed for a short period of time. Then the display will return to the standard view.

NOTE:


The heater does not heat the supply air if the outdoor temperature exceeds +25°C.

Eco mode


When you select Eco mode in the ventilation system, the system will save energy by making minor adjustments to the set temperature and airflow values. In the Eco mode, the system does not react to changes in temperature as quickly as in the normal mode. It first examines in which direction the temperature is changing before it starts to heat or cool the supply air.

This green operation mode does not reduce comfort notably, but it does reduce costs.

Setting:

- 1 Press button . First, the text **ECO** will be displayed for a short period of time. Then the display will return to the standard view. The ventilation system will enter the selected mode.

Returning to the Home mode:

- 1 Press button . First, the texts **ECO** and **oFF** will be displayed for a short period of time. Then the display will return to the standard view.

NOTE:

The selected Eco mode will be switched off if the outdoor temperature exceeds +25°C. The mode will be switched back on when the outdoor temperature drops below +25°C.

EFFICIENT USE OF THE VENTILATION

A correctly designed and used ventilation system reduces costs and saves energy. In addition, it promotes the health of both the living environment and the residents.

- Always use the ventilation system in accordance with the plan drawn up for your home – around the year.
- Clean or replace the filters when the system advises you to do so, and vacuum-clean the interior of the unit regularly.
- Open the lid of the ventilation unit and inspect the unit regularly, e.g. once a month.
- The equipment may become dirty due to dust and other air pollutants. Dirt blocks the filters and clings to the heat exchanger weakening the efficiency of ventilation.
- Use the special modes, such as the Fireplace mode, only when truly required.
- The unnecessary use of special modes increases energy consumption.
- Instead of, or in addition to, adjusting the ventilation system, you can also improve living comfort using traditional methods:
- Keep the curtains and windows closed on hot days in order to keep out the heat of the sun. Dress more warmly on cold days. This way you can save a significant amount of energy.
- Only use spare parts approved by Enervent.
- Only use original filters. They have been designed to ensure the best possible performance of your ventilation system.
- Use the **Eco** mode in order to save energy and reduce costs without compromising indoor air quality.

Using the ventilation during the cold season

CAUTION

Reducing ventilation may cause serious damage to the structures of your house.

Do not reduce the ventilation or switch it off even when the outdoor temperature drops. Instead of decreasing, the costs may increase. Your ventilation system is the result of a professional system designer. Changes in the outdoor temperature have been taken into account in the design of the system and the unit. If no changes occur in your daily routines, there is no need to adjust the ventilation system.

If you reduce the airflow in cold weather, ice may accumulate in the ventilation unit. The risk is particularly high in extremely cold weather and when the indoor air humidity is high (the shower is used frequently and large amounts of laundry are dried).

If the structure of the ventilation system needs to be updated, contact the designer of the system.




Maintenance reminder display

The purpose of the maintenance reminder is to remind the user when the maintenance interval has elapsed. The maintenance interval is 4 or 6 months depending on the model.

When the maintenance interval has elapsed, the text **FILS** will appear on the display.

Time and date of maintenance

Viewing:

- 1 Simultaneously press buttons  and  once.
 - 2 Go to the parameter n13 by pressing button .
- The time remaining until the next maintenance is displayed in days.

Set-up display


The set-up display is only intended for professional use. It displays the current settings in the ventilation system and enables the changing of the settings.

CAUTION

Only an authorised person who has received sufficient training in using the ventilation system may change the settings.

Supply air is too warm

If the air coming from the ventilation system is too warm:

- 1 Go to a lower supply air target temperature by pressing button . The temperature value on the panel will change and the ventilation system will be adjusted according to the set target temperature.

NOTE:

The system uses all of its devices in order to reach the desired temperature. The lack of a device, such as a cooling coil, may result in a higher temperature than the one you have set.

Using the Eco mode also maximises heat recovery in warm weather. It may, however, also cause the supply air to be too warm. In that case, switch off the Eco mode.

Supply air is too cold

If the air coming from the ventilation system is too cold:

Go to a higher supply air target temperature by pressing the **Temperature** button. The temperature value on the panel will change and the ventilation system will be adjusted according to the set target temperature.

NOTE:

The system uses all of its devices in order to reach the desired temperature. The lack of a device, such as a post-heater, may result in a higher temperature than the one you have set.

Insufficient maintenance: A clogged filter or a worn heat recovery drive belt, among other things, may be the cause for cold supply air.

See also the following section: 'Heating mode', page 8.

Ventilation is insufficient

If the ventilation is insufficient:

1. Check that the filters are clean and do not need to be replaced.
 - If the filters are dirty, replace them in accordance with the instructions provided in the section **'Filters'** on **page 12**.
2. Check that no changes have occurred in the need for ventilation after the design and installation of the system.
 - If changes have occurred in the number or routines of the people using the premises, the ventilation system may require updating. Contact the designer of your ventilation system.

Ventilation is noisy

Even though our ventilation units are relatively quiet, they never run completely silently. If the ventilation system has been designed and installed correctly (no devices are located close to the bedroom and soundproof doors and silencers are used), the disturbance caused by ventilation can be reduced to a minimum.

If the ventilation is unusually noisy:

1. Check that the filters are clean and do not need to be replaced.
2. If the filters are dirty, replace them in accordance with the instructions provided in the section **'Filters'** on **page 12**.
3. Check that the fans are clean and do not require cleaning.
4. If the fans are dirty, clean them in accordance with the instructions provided in the maintenance manual.
5. Check that the automated boosted ventilation for the removal of humidity is not on.
6. Open the Information display and browse to the parameter n1. If the parameter is visible, the boosted operation is on.

NOTE:

If the automatic boosted ventilation is always on, the air humidity may be too high. Contact the designer of your ventilation system.

Indoor air is too humid

In addition to feeling the air humidity, you may also identify a too high a humidity level by listening to the sound of the ventilation. If the automatic boosted ventilation is always on, the air humidity may be too high and the system may attempt to remedy the matter.

If the indoor air is too humid:

1. Check that the filters are clean and do not need to be replaced.
 - If the filters are dirty, replace them in accordance with the instructions provided in the section **'Filters'** on **page 12**.
2. Check that no changes have occurred in the need for ventilation after the design and installation of the system.

NOTE:

If changes have occurred in the number of people using the premises and/or the use of the shower/sauna, the ventilation system may require updating. Contact the designer of your ventilation system.

Ventilation does not work

If the ventilation does not work:

1. Check that the unit is connected to the mains supply.
2. Check that a fuse has not tripped in the electricity distribution board.

If all these matters are in order and the ventilation still does not work, contact maintenance.

MAINTENANCE

The unit requires very little maintenance. Sufficient maintenance usually includes the following tasks:

- Filter replacement
- Cleaning of the heat exchanger (in connection with the cleaning of the ventilation ducts)
- Cleaning of the fans (in connection with the cleaning of the ventilation ducts)
- Inspection of the condensation water discharge pipe

DANGER

Before you begin any maintenance work, switch the power off by removing the plug from the socket. Wait for two (2) minutes before you begin the maintenance. Even though the power supply to the unit has been switched off, the fans will continue running and the electric coil will be hot for a while.

The equipment includes moving parts (e.g., fans and the motor and belt of the rotating heat exchanger) that wear out in use. Due to normal wear and tear, these parts must be replaced during the lifecycle of the equipment. The normal operating life of the wear-out parts is determined on the basis of the operating conditions and operating time. As a result, no normal maintenance interval can be specified for the wear-out parts.

Maintenance reminder

The control panel advises the user to conduct the periodic maintenance. The maintenance reminder **FILS** will appear on the control panel display when the maintenance interval has elapsed.

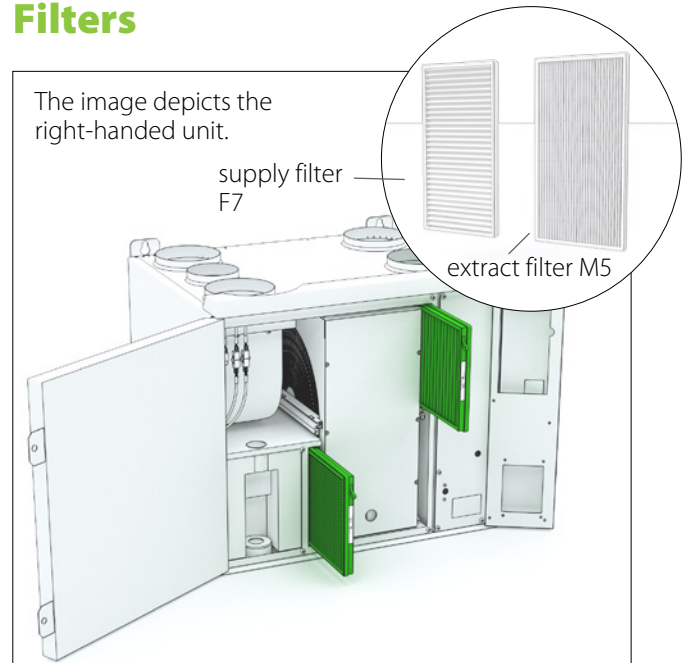
Acknowledge the maintenance reminder by pressing any key on the eWind panel for 5 seconds.

FOR YOUR INFORMATION

When you are performing maintenance work on a part of the equipment, always check the cleanliness and degree of wear of the other parts, as well.

Watch the maintenance instruction video in the Help Center on our website at www.enervent.com.

Filters



M5 and F7 cassette filters are used in the ventilation unit.

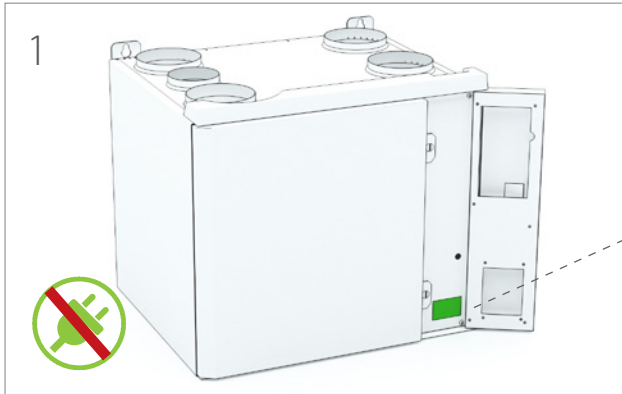
The recommended maximum maintenance interval for the cassette filter is 4 months.

Cassette filters may be cleaned using compressed air, which extends the maintenance interval to six (6) months at the most.

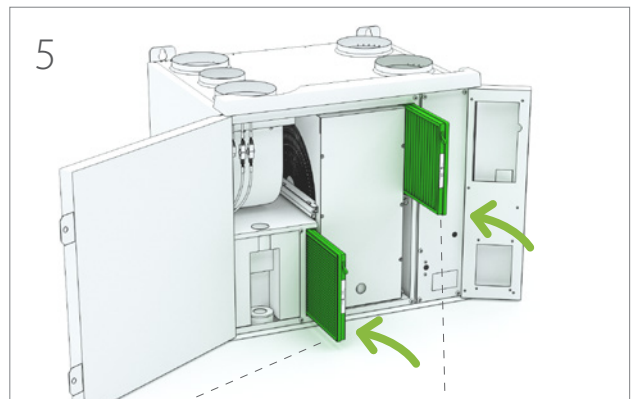
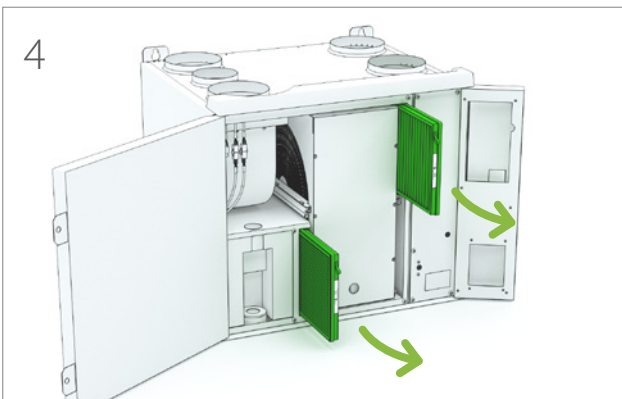
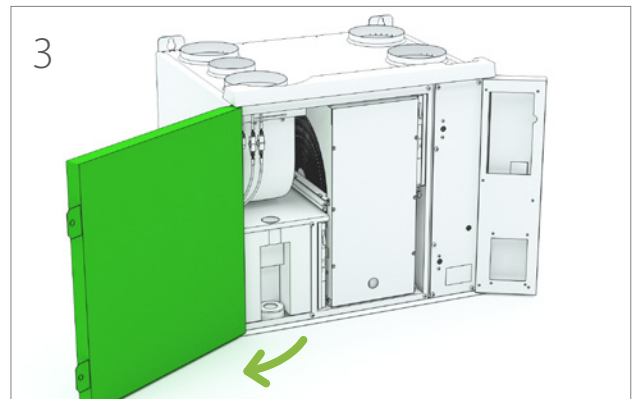
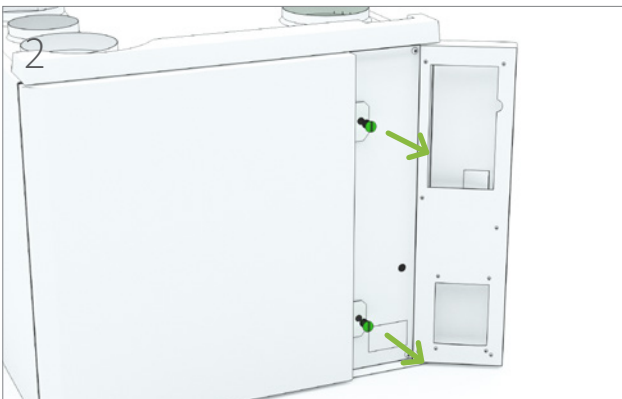
FOR YOUR INFORMATION

The compressed air must be dry and oil-free.

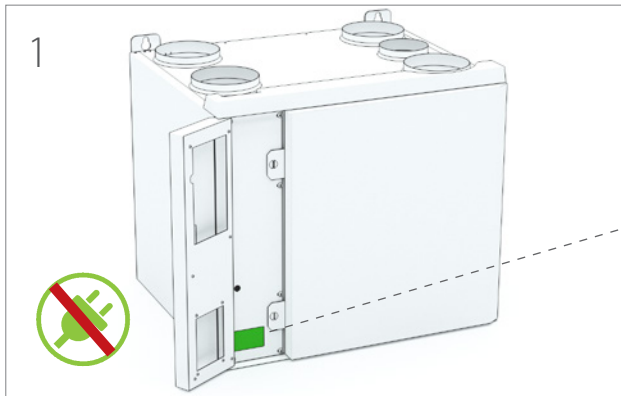
Filter replacement, right-handed



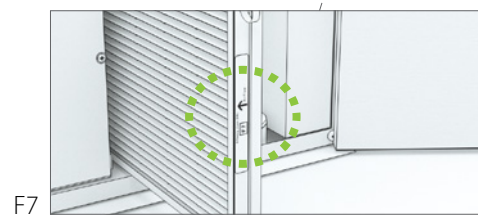
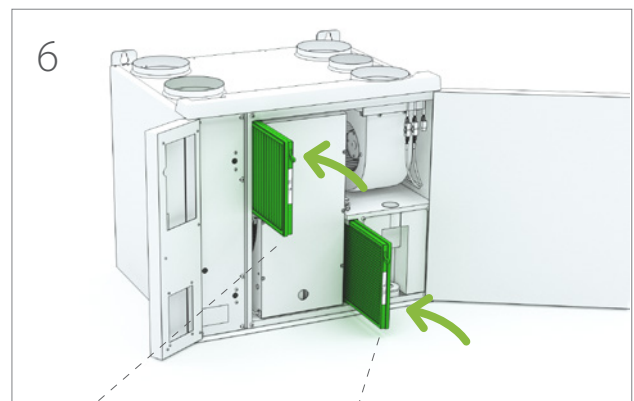
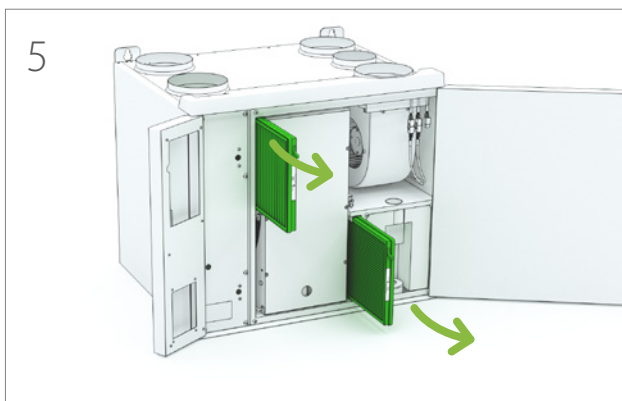
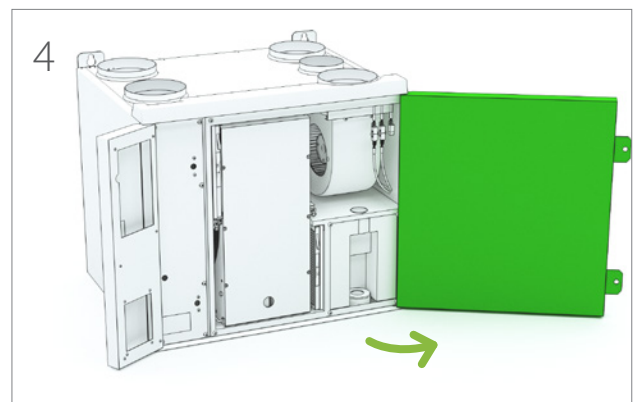
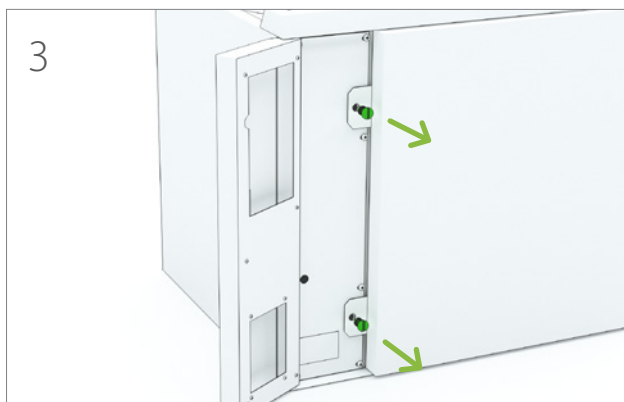
| | |
|--|---------------------|
| enervent ilmanvaihtolaite ventilation unit | |
| TYYPPI/TYPER: | SALLA EWIND E RIGHT |
| W/ V/ HZ / A: | |
| SRJ. NRO/SERIAL NO: | |
| www.enervent.com | IP 20 CE EAC |



Filter replacement, left-handed

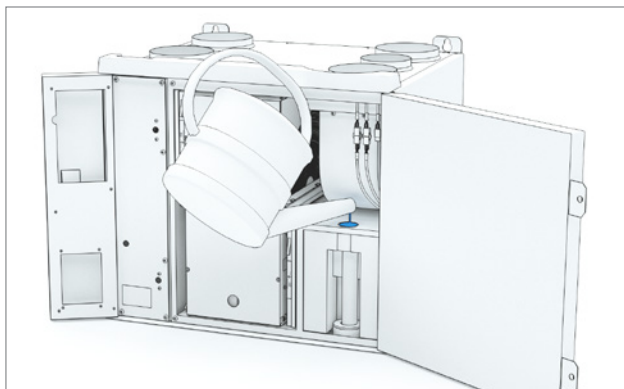


| | |
|----------------------------------|--|
| enervent | <i>ilmanvaihtolaite</i> <i>ventilation unit</i> |
| TYYPPI/TYPER: SALLA EWIND E LEFT | |
| W/ V/ HZ / A: | |
| SRJ. NRO/SERIAL NO: | |
| www.enervent.com | IP 20 |
| | |



ADDING WATER TO THE WATER TRAP (DRAINAGE OF THE CONDENSATION WATER)

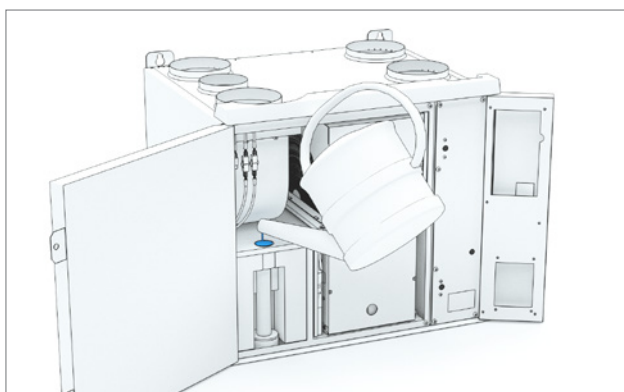
Left-handed model



FOR YOUR INFORMATION

If the K900010010 water trap is used, no water needs to be added.

Right-handed model



TROUBLESHOOTING

| Alarm | Description | Alarm limit | Symptoms | Possible cause | Measure | Notes |
|-------|---|---------------|------------------|--|---|---|
| FILS | Maintenance reminder. | 4 or 6 months | | It is time for the periodic maintenance. | Replace the filters. Inspect the ventilation unit. Clean, if necessary. Check the unit for visible damages. | Acknowledge by pressing any button for 5 seconds. |
| AL2 | The supply air is cold after the rotating heat exchanger. | +5°C | Cold supply air. | The heat exchanger does not rotate: <ul style="list-style-type: none"> The drive belt is damaged. The drive belt skids. The heat exchanger motor is damaged. | If the drive belt is damaged, take the spare belt into use and clean the outer surface of the heat exchanger. Have the new belt and the motor of the heat exchanger replaced by a maintenance company authorised by the manufacturer. | The ventilation unit switches to malfunction mode, in which the fans run at minimum power. The alarm is automatically reset when the fault is cleared. |

Other fault codes (Err, ---, oFFE, AL1, AL3, AL4, AL5, AL6, AL7, AL8, AL9): Please contact an authorised maintenance company (see enervent.com/fi/contact-information/service-partners/).







Quick reference guide for the user

| | | |
|--|--|--|
| | | |
| <p>Acknowledge the FILS maintenance reminder by pressing any key on the eWind control panel for 5 seconds.</p> | <p>Press the Mode button for 3 seconds. First, the text 'on' will be displayed for a short period of time, and then the text 'F-PL' will be displayed. The F-PL is not in use if a range hood has been connected to the equipment.</p> | |