

VALLOX

MyVallox

Model

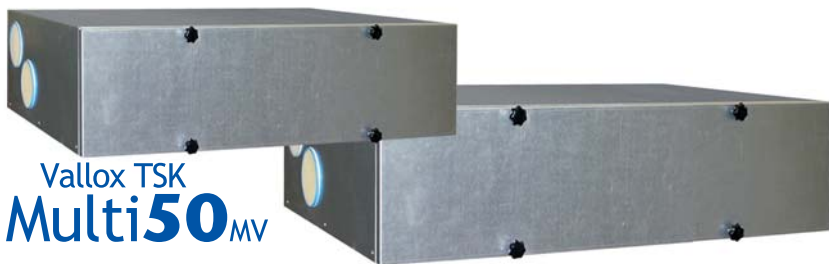
Vallox TSK Multi 50 MV
Vallox TSK Multi 50 MV EH
Vallox TSK Multi 80 MV
Vallox TSK Multi 80 MV EH
Vallox TSK Multi 80 MV EHX
Vallox 90 MV
Vallox 90K MV
Vallox 096 MV
Vallox 110 MV
Vallox 145 MV
Vallox 245 MV
Vallox 245 MV VKL

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7.6.2017

Manual



Vallox TSK
Multi50_{MV}

Vallox TSK
Multi80_{MV}



Vallox
90_{MV}

Vallox
90K_{MV}



Vallox
096_{MV}

Vallox
110_{MV}

Vallox
145_{MV}

Vallox
245_{MV}

Ventilation units

SAFETY

Safe and appropriate handling requires knowledge of the basic safety regulations, and of the intended use of the ventilation system. Read this manual before operating the ventilation unit. Retain the manual for later reference. If you lose the manual, it can be downloaded from our website.

This user manual contains all the information necessary for safe operation of the system. All persons who operate and maintain the ventilation system must follow the instructions provided in this manual. Furthermore, all local accident prevention regulations must be observed.

Installation

Installation and setup should be carried out only by qualified experts. Electrical installations and connections must be carried out only by an electrician and in compliance with local regulations.

GUARANTEE

The guarantee and liability exclude damage resulting from:

- Inappropriate use of the ventilation system or the control unit
- Incorrect or inappropriate installation, setup or use
- Neglect of instructions concerning transportation, installation, use, or maintenance
- Structural or electronic modifications or changes made to the software

INTENDED USE

All Vallox ventilation units have been designed to provide appropriate and continuous ventilation so as to present no threat to health and to maintain structures in good condition.



IMPORTANT

In order to ensure that the indoor air presents no harm to health and remains optimal also for the structures of the building, **ventilation must be kept on without disruptions**. It is recommended that ventilation be left turned on during long holidays also. This keeps the indoor air fresh and prevents humidity from condensing in the ventilation ducts and structures. It also reduces the risk of moisture damage.

DISPOSAL OF THE VENTILATION UNIT

Do not dispose of electronic devices with household waste. Follow local laws and regulations on safe and ecological disposal of the product.



NOTE

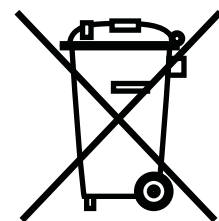
For further information, go to www.vallox.com



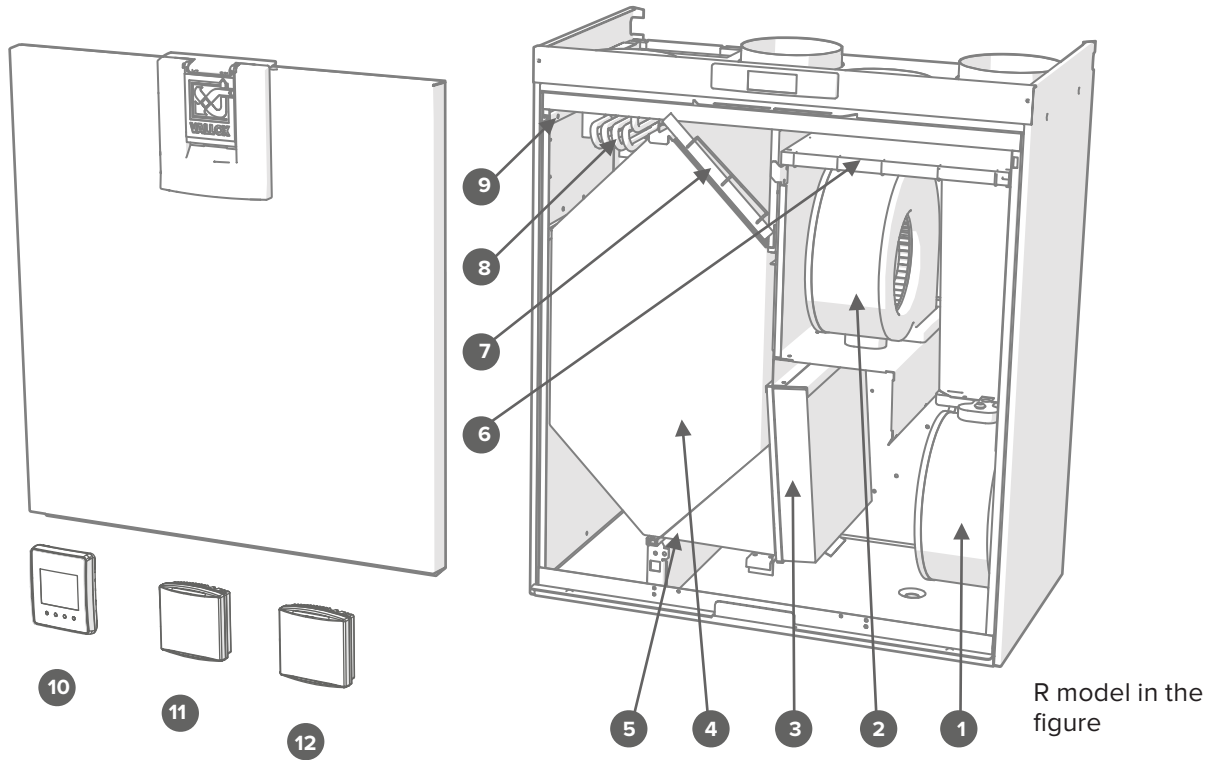
WARNING

The unit is not intended for use by children under 8 or by persons with reduced sensory, physical or mental capabilities, or whose lack of knowledge and experience do not ensure safe operation of the unit.













Such persons can use the unit under supervision, or by following the instructions of someone who is responsible for their safety.



VALLOX 90 MV



R model in the figure

- | | | | | | |
|-------------------------------------------------------------------------------------|--------------------------------|---|-------------------------------------------------------------------------------------|-----------------------|----|
|  | Extract air fan | 1 |  | Post-heating radiator | 8 |
|  | Supply air fan | 2 |  | Safety switch | 9 |
|  | Supply air filter F7 | 3 |  | Control panel | 10 |
|  | Heat recovery cell | 4 |  | Carbon dioxide sensor | 11 |
|  | Automatic summer/winter damper | 5 |  | Humidity sensor | 12 |
|  | Supply air filter G4 | 6 | | | |
|  | Extract air filter G4 | 7 | | | |

FOUR VENTILATION UNIT PROFILES



At home

Use this ventilation profile when the dwelling or the premises are occupied.



Away

Use this ventilation profile when the dwelling or premises are unoccupied, e.g. during a trip or other long absence.



Boost

Use this profile to increase the ventilation rate, e.g. when there are more people than usual in the dwelling or elsewhere on the premises.



Fireplace profile

Use this ventilation profile when, for example, you are making a fire in the fireplace. This profile is primarily used to create momentary overpressure in the apartment.



TIP

Using the At home, Away, and Boost profiles according to need helps to save energy.



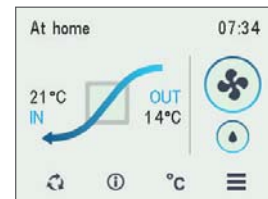
IMPORTANT

Prolonged overpressure can result in damage to the structures of the building.

Symbols for ventilation profiles

The following symbols are used on the main displays of the profiles:

Table 2. Profile symbols



SYMBOL	DESCRIPTION
	The profile in use is either the At home, Away, or Boost profile. The week clock is turned off.
	The profile in use is either the At home, Away, or Boost profile. The week clock is on.
	The Fireplace profile is used. The week clock might be turned on.
	These symbols indicate the currently active profile. The smallest fan icon indicates that the Away profile is in use, and the largest fan icon indicates that the Boost profile is being used.
	Droplet symbols indicate the relative humidity of air. The symbols are: <ul style="list-style-type: none"> • One drop — The humidity sensor has been successfully installed and the relative humidity of air is normal. • Two drops — The relative humidity of air is slightly higher than normal. The fan speed will be automatically increased if automatic adjustment is allowed. • Three drops — The relative humidity of air is significantly higher than normal. The fan speed will be automatically increased if automatic adjustment is allowed.
	These symbols indicate the carbon dioxide level in the air. The colour codes are: <ul style="list-style-type: none"> • Green — The carbon dioxide sensor has been installed and the carbon dioxide level is normal. • Orange — The carbon dioxide level is slightly higher than normal. The fan speed will be automatically increased if automatic adjustment is allowed. • Red — The carbon dioxide level is significantly higher than normal. The fan speed will be automatically increased if automatic adjustment is allowed.

CHANGING THE PROFILE

1. Press the **Change profile** button until the desired ventilation profile icon appears on the display.
2. Wait until the main display of the ventilation profile appears.
3. The ventilation profile has now been changed.



Browsing the information of the At home, Away, and Boost profiles

To view the profile settings:

1. Open the main display of the profile you wish to view.
2. Select **Profile information**.

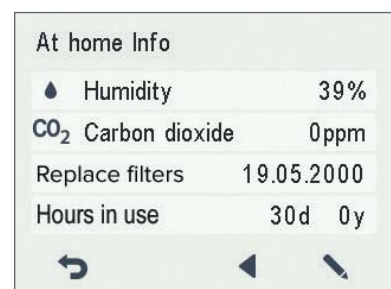
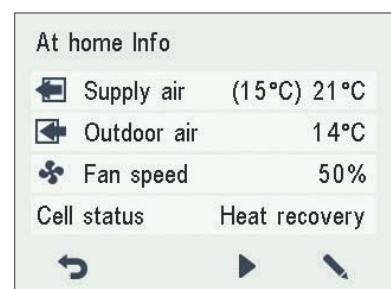
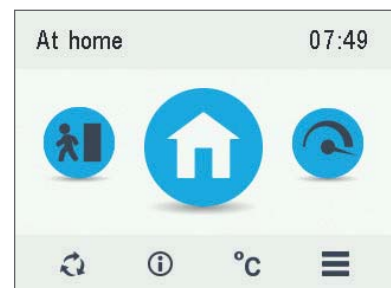
The following information is shown on the first information display of the profile:

- **Supply air** — Indicates the temperature of the air blown into the building and its set value (in brackets), if the supply air is warmer than the set value.
- **Outdoor air** — Indicates the outdoor temperature.
- **Fan speed** — Indicates the fan speed. If the automatic fan speed boost is turned on, the set value is shown in brackets first followed by the actual fan speed.
- **Cell status** — Indicates the status of the ventilation unit heat recovery cell. The status options are:
 - **Heat recovery** — The heat recovery cell heats the air streaming in from outdoors.
 - **Cooling** — The heat recovery cell cools the air streaming in from outdoors.
 - **Cell bypass** — The inflowing air bypasses the heat recovery cell.
 - **Defrosting** — The heat recovery cell is being defrosted.

3. Proceed to the next phase by selecting **Right arrow**.

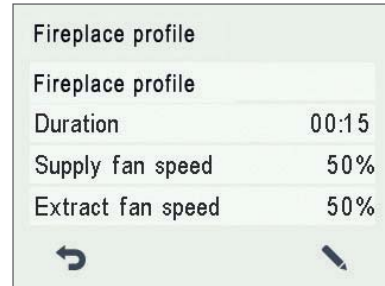
The next information display of the profile shows the following information:

- **Humidity** — Indicates the highest relative humidity of air measured by the sensors.
- **Carbon dioxide** — Indicates the highest carbon dioxide level measured by the sensors.
- **Replace filters** — Indicates the next recommended filter replacement date.
- **Time in operation** — Indicates how long the device has been running.



Viewing the Fireplace profile Information

1. Open the main display of the **Fireplace** profile:
2. Select **Profile information**.
3. The information display shows the following information:
 - **Duration** — Indicates the duration of enhanced ventilation when the **Fireplace** profile is activated. The value is expressed in hours and minutes.
 - **Supply fan speed** — Indicates the percentage of the supply air fan speed relative to the maximum speed.
 - **Extract fan speed** — Indicates the percentage of the extract air fan speed relative to the maximum speed.



Modifying and saving the profile settings

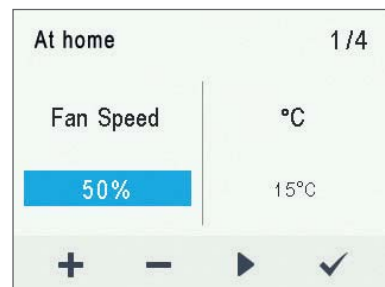
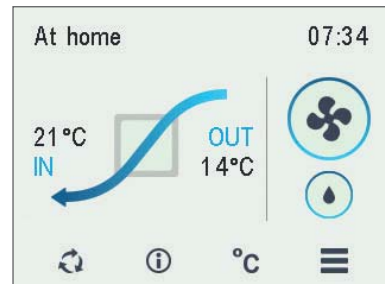
- IMPORTANT**
The unit does not automatically save any settings, not even those that are currently in use. Unless saved, settings may be lost during a power cut, for example. To save the settings, select **Expert settings > Save and restore settings**.

Modifying profile settings

1. Open the main display of the profile you wish to view.
2. Select **Profile information**.
3. Select **Edit**.
4. Make the desired changes as instructed in the section Setup wizard > Profile settings.

Timer functions of the Boost and Fireplace profiles

In addition, the timer function can be modified in the Boost and Fireplace profiles. See Setup wizard -> Profile settings.

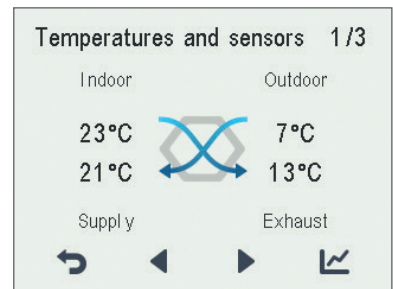
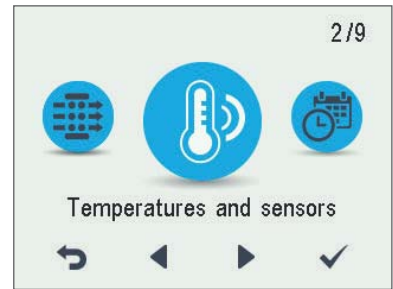


Viewing temperature data

1. Select **Settings** > **Temperatures and sensors**.
2. Select **OK**.

The summary display of temperatures and sensors shows the following information:

- **Indoor** — Indicates the temperature of the air flowing into the unit to be removed from the premises.
- **Outdoor** — Indicates the temperature of the air flowing into the unit from outside.
- **Supply** — Indicates the temperature of the air flowing into the premises from the unit.
- **Exhaust** — Indicates the temperature of the exhaust air flowing outdoors from the unit.



i TIP

The temperature and sensor data can also be viewed by pressing the temperature button on the profile display.

Viewing temperature statistics

1. Select **Settings** > **Temperatures and sensors**.
2. Select **OK**.
3. Select **Statistics**.
4. A graph appears on the display showing the indoor air temperature over the past 24 hours.
5. Use the **Plus** and **Minus** buttons to alternate between weekly and daily statistics.
6. Use the **arrow** buttons to view outdoor air, supply air, and exhaust air temperature statistics.
7. On each display, use the **Plus** and **Minus** buttons to alternate between weekly and daily statistics.
8. To exit the menu, press the **Back** button.

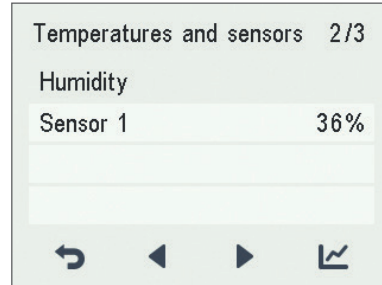


Indoor air temperature graph for the past 24 hours. The outside and supply air values are shown on a similar display. You can view the graph for a week or for a single day.

Viewing the relative humidity of air and carbon dioxide levels measured by the sensors

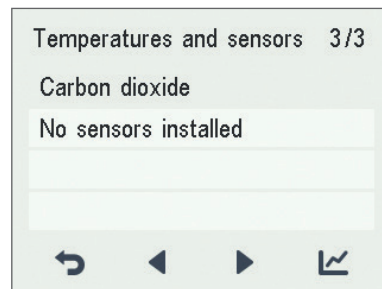
To browse levels measured by individual sensors:


- ☰ 1. Select **Settings** > **Temperatures and sensors**.
- 2. Select **OK**.
- 3. Use the arrow buttons to switch from the summary display of **Temperatures and sensors** to view the relative humidity of air and carbon dioxide levels measured by the humidity and carbon dioxide sensors.



To browse statistics for relative humidity of air and carbon dioxide levels:

- ↖ 1. Select **Statistics** next to the sensor group you wish to view.
- 2. A graph opens on the display showing the relative humidity of air and carbon dioxide levels recorded over the past 24 hours by the sensor with the highest values.
- 3. Use the **Plus** and **Minus** buttons to alternate between weekly and daily statistics.
- 4. To exit the menu, press the **Back** button.

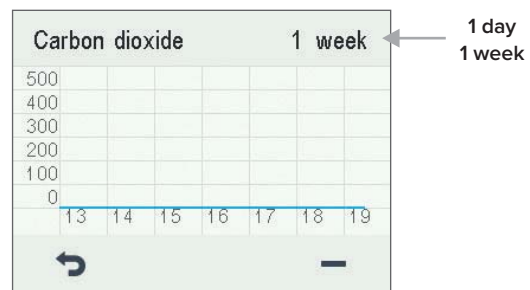


 **NOTE**
For more detailed instructions, go to www.vallox.com

Relative humidity of air and carbon dioxide level statistics



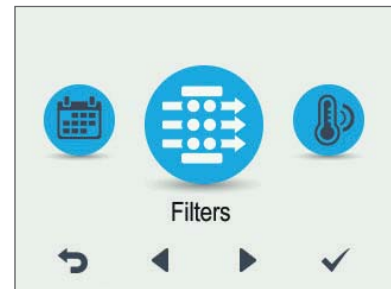
Relative humidity of air statistics for the past 24 hours. You can view the graph for a week or for a single day.



Carbon dioxide level statistics for the past week. You can view the graph for a week or for a single day.

FILTER SETTINGS

- 1. Select **Settings > Filters**.
- 2. Select **OK**.
- 3. The summary display of filter replacement shows the following information:
 - **Filters replaced** — Indicates the date when the filters were last replaced.
 - **Next reminder** — Indicates the date when a reminder to replace the filters will next be shown.
 - **Reminder interval** — Indicates the filter replacement interval in months.

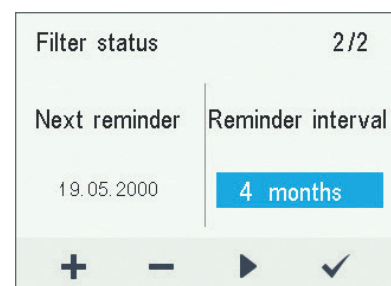
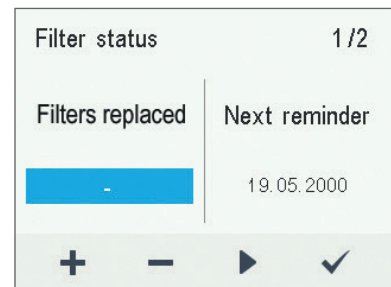


Setting the date the filters were last replaced

Instructions for replacing the filters are provided in the Maintenance section.

After replacing the filters, enter the replacement date.

- 1. Select **Settings > Filters**.
- 2. Select **OK**.
- 3. Select **Edit**.
- 4. Select **Plus** on the Filter replacement display. The **Last replaced** field now reads **Today**.
- 5. Select **OK**.



Setting the Filter replacement reminder interval

- 1. Select **Settings > Filters**.
- 2. Select **OK**.
- 3. Select **Edit**.
- 4. Select **Right arrow**.
- 5. Use the **Plus** and **Minus** buttons to set the desired reminder interval in months in the Reminder interval field. The interval value can be between 1 and 12 months. The default setting is 4 months.
- 6. Select **OK**.

NOTE

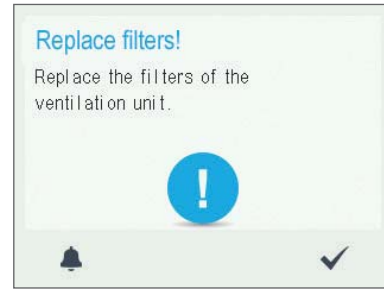
Based on the set reminder interval, the unit will automatically set the service to provide a reminder to replace the filters at the due time.

Filter maintenance reminder

The maintenance reminder reminds you of the filter replacement with a pop-up window.

The message can be acknowledged by selecting **OK**.

Press the clock button to postpone the reminder for one week.



DISPLAY SETTINGS

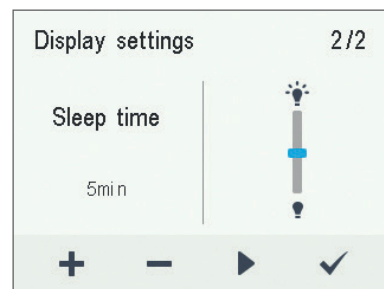
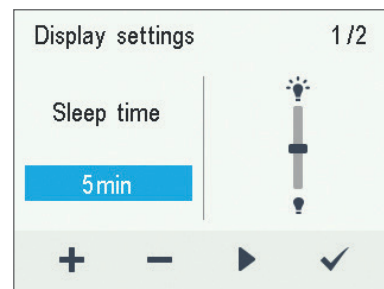
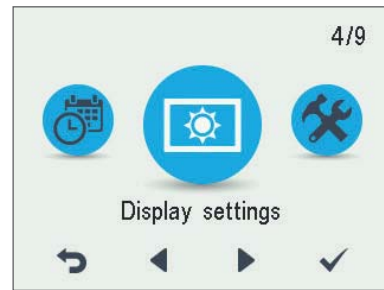
Setting the sleep time

- 1. Select **Settings > Display settings**.
- 2. Select **OK**.
- 3. Use the **Plus** and **Minus** buttons to set the Sleep time.
- 4. Select **OK**.



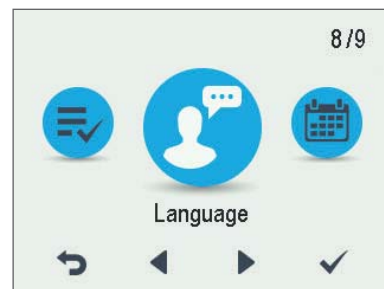
TIP

The MyVallox Control control panel automatically switches to the sleep mode when the pre-set Sleep time has elapsed. To reactivate the MyVallox Control control panel, press any button.



Adjusting the display brightness

- 1. Select **Settings > Display settings**.
- 2. Select **OK**.
- 3. Select **Right arrow**.
- 4. Use the **Plus** and **Minus** buttons to set the display brightness.
- 5. Select **OK**.



Selecting the user interface language

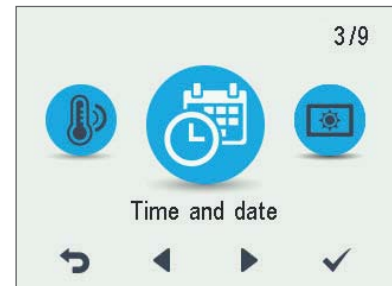
- 1. Select **Settings > Language**.
- 2. Select **OK**.
- 3. Select your language.
- 4. Select **OK**.

TIME AND DATE

Setting the time and date

The available time settings are:

- Time
- 24- or 12-hour clock
- Automatic daylight saving time
- Date

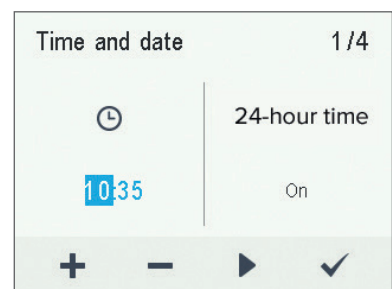


NOTE

The ventilation unit time will withstand a power cut of a few hours.

Setting the time

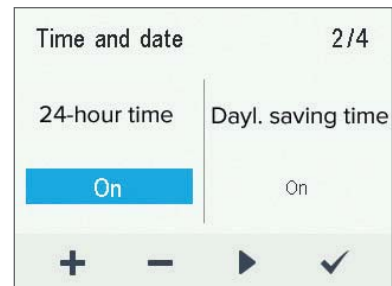
1. Select **Settings > Time and date.**
2. Select **OK.**
3. Use the **Plus** and **Minus** buttons to set the hours.
4. Select **Right arrow.**
5. Use the **Plus** and **Minus** buttons to set the minutes.
6. Select **OK.**



Selecting the 24- or 12-hour clock

The 24-hour clock is used by default. To use the 12-hour clock:

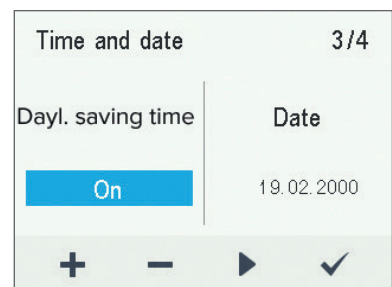
1. Select **Settings > Time and date.**
2. Select **OK.**
3. Select **Right arrow** until the 2/4 display opens
4. Select **Minus.** The **24-Hour** setting value is changed to **Off.**
5. Select **OK.**



Automatic daylight saving time

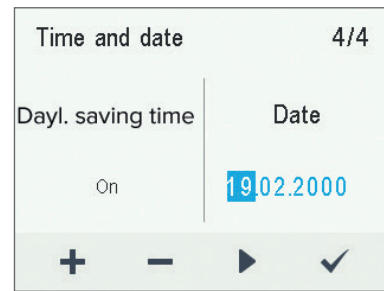
By default, automatic daylight-saving time is turned on. To use the manual daylight saving time setting:

1. Select **Settings > Time and date.**
2. Select **OK.**
3. Select **Right arrow** until the 3/4 display opens.
4. Select **Plus.** The **Dayl.saving time** setting value is changed to **Off.**
5. Select **OK.**



Setting the date

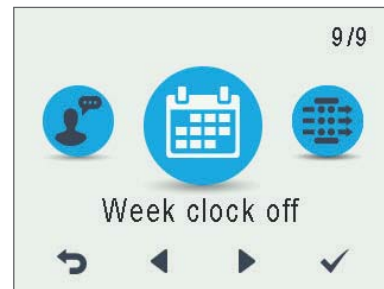
1. Select **Settings > Time and date.**
2. Select **OK.**
3. Select **Right arrow** until the 4/4 display opens.
4. Use the **Plus** and **Minus** buttons to set the date.
5. Select **Right arrow.**
6. Use the **Plus** and **Minus** buttons to set the month.
7. Select **Right arrow.**
8. Use the **Plus** and **Minus** buttons to set the year.
9. Select **OK.**



WEEK CLOCK

The week clock allows you to pre-set a weekly ventilation program for the ventilation unit. For each hour of the week, one of the following profiles can be configured:

- **At home** — The **At home** profile is used.
- **Away** — The **Away** profile is used.
- **Boost** — The **Boost** profile is used.
- **Blank** — Do not change the profile.



NOTE

If you change the profile manually when the week clock is on, the selected profile will be active until the week clock switches to the next profile in the program.

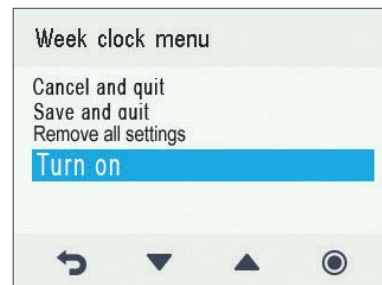
If the humidity or carbon dioxide sensors control the ventilation, they will adjust the fan speed, regardless of whether the profile has been manually selected or selected by the week clock.

TIP




You can turn the week clock on or off by pressing the OK button on the Week clock display for a few seconds.

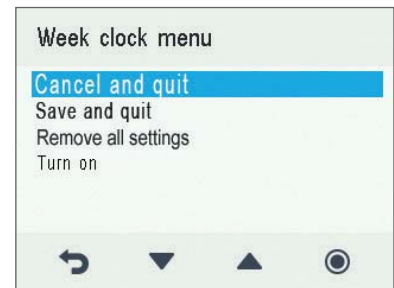
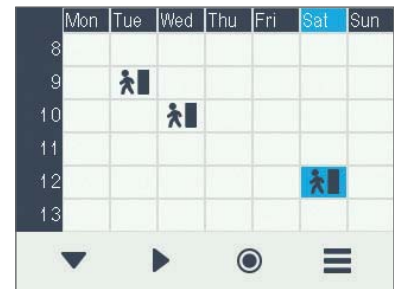
Turning the week clock on

1. Select **Settings > Week clock off.**
2. Select **OK.**
3. Select **Settings.**
4. Select **Turn on.**
5. Select **Select.**
6. The control panel confirms that the week clock is turned on.



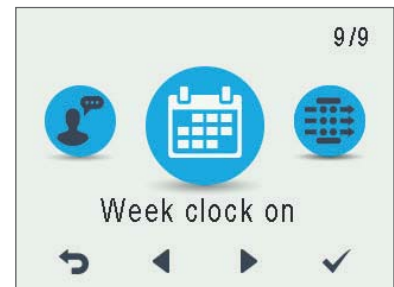
Setting and editing the weekly program

- 1. Select **Settings > Week clock on**.
- 2. Select **OK**.
- 3. Use the **Right arrow** button to select the desired day.
- 4. Use the **Down arrow** button to select the desired time.
- 5. Use the **Select** button to browse and select the ventilation profile that will be turned on at the chosen time. The icons are:
 -  **At home profile**
 -  **Away profile**
 -  **Boost profile**
- 6. Once you have selected the profiles for the week clock, select **Settings**.
- 7. Select **Save and quit**, or select **Cancel and quit** to leave without saving the week program or the changes made to it.
- 8. Once you have saved the week clock program, select **OK** on the **confirmation display**.



Turning the Week clock off

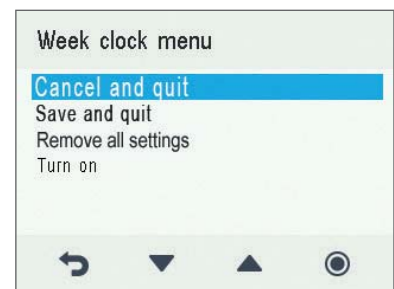
- 1. Select **Settings > Week clock on**.
- 2. Select **OK**.
- 3. Select **Settings**.
- 4. Select **Turn off**.
- 5. Select **Select**.
- 6. The control panel will confirm that the week clock is turned off.
- 7. The week clock is now turned off. If you have set a weekly program, it will be saved in the unit.



Removing the week clock settings

To delete the weekly program settings:

- 1. Select **Settings > Week clock on** or **Week clock off**.
- 2. Select **OK**.
- 3. Select **Settings**.
- 4. Select **Remove all settings**.
- 5. Select **OK** to accept deletion of the weekly program. The weekly program has now been deleted.



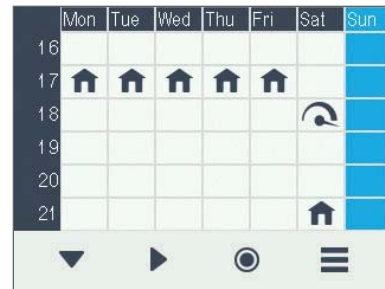
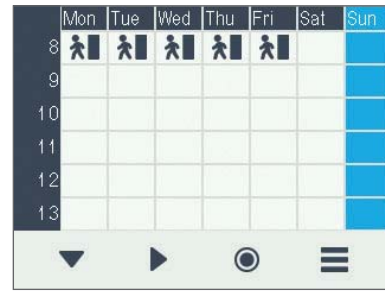
Example of setting a weekly program

In this example, the following weekly program has been set:

- Mon-Fri 8-17, *Away* .
- Mon-Fri 17-07, *At home*.
- Sat 8-17, *At home*.
- Sat 18-20, *At home* with a ventilation boost needed for cooking, for example.
- Sat 21-Mon 8, *At home*.

To set the week clock, proceed as follows:

1. Open the week clock.
2. Select Monday, and input the following settings:
 - For 08:00, select the **Away** profile.
 - For 17:00, select the **At home** profile.
3. Then input the corresponding settings for the other weekdays.
4. Then select Saturday, and input the following settings:
 - At 18, select the **Boost** profile.
 - At 21, select the **At home** profile.
5. Ensure that the Week clock is turned on.
6. The weekly program has now been set.



The figures above show the aforementioned settings in the week clock.

TURNING THE UNIT OFF

To turn the ventilation unit off:

1. Select **Settings**> **Turn unit off**.
2. Select **OK**.
3. Accept the command by selecting **OK**.
4. The ventilation unit has now been turned off.

! IMPORTANT

In order to ensure that the indoor air presents no harm to health and remains optimal for the structures of the building, ventilation must be kept on without disruptions. It is recommended that ventilation be left turned on during long holidays also. This keeps the indoor air fresh and prevents humidity from condensing in the ventilation ducts and structures. It also reduces the risk of moisture damage.

i TIP

To re-start the ventilation unit, press any key.

