

My**VALLOX**
TOUCH

Manual



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1. INTRODUCTION

1.1. 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.

These instructions contain all the information needed for the safe operation of the unit. All persons who install, operate, and maintain the ventilation unit must follow the provided instructions. 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

NOTE: For further information, go to <https://www.vallox.com>

1.1.1. Installation

⚠ WARNING:

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

1.2. Guarantee

The guarantee and liability exclude damage resulting from:

- Inappropriate use of the ventilation unit or the control panel
- Incorrect or inappropriate installation, setup, or use
- Failure to follow instructions regarding transport, installation, operation, or maintenance
- Structural or electronic modifications or changes made to the software

1.3. 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.

⚠ WARNING:

Ensure that the fireplace air intake is sufficient. Operating certain kitchen range hood, central vacuum cleaner and ventilation unit functions can create underpressure in the indoor air. Combustion gases can then be released from the fireplace into the indoor air.

The following can create underpressure indoors:

- Kitchen range hood or central vacuum cleaner are in operation while there is a fire burning in the fireplace
- The supply air fan is stopped during the defrosting function of the ventilation unit
- The boosted defrosting function of the ventilation unit is being used

Underpressure can prevent fireplace air intake, and combustion gases can then be released into the indoor air.

! 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.

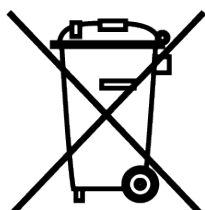
! IMPORTANT:

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

1.4. 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.

See the MyVallox ventilation unit recycling instructions at: https://res.cloudinary.com/vallox/image/upload/v1704800151/FileStock/ValidManuals/Recycling_Instructions_Vallox_Ventilation_units.pdf.



1.5. Safety signs used in the instructions



DANGER:

Indicates a hazard that will result in death or serious injury if not avoided.



WARNING:

Indicates a hazard that can result in death or serious injury if not avoided.



CAUTION:

Indicates a hazard that can result in minor or moderate injury if not avoided.



IMPORTANT:

Indicates a hazard that can result in damage to property or loss of data if not avoided.



NOTE:

Indicates essential information about the product.

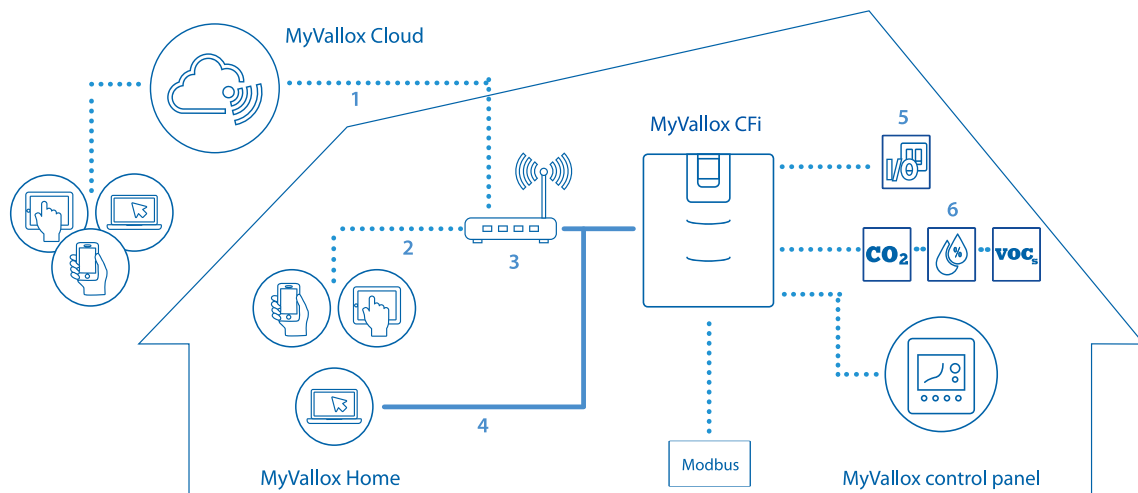
TIP:

Provides additional information about the use of the product and its benefits.

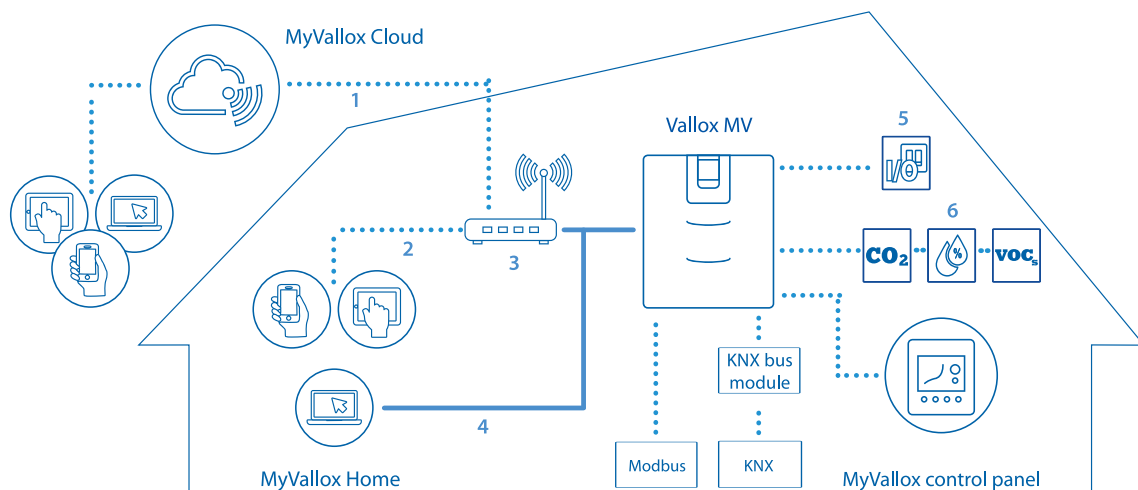
1.6. Compatibility of the MyVallox Touch control panel

The control panel is compatible with all MyVallox ventilation units.

1.7. System description



- 1 Internet
- 2 WLAN
- 3 Router
- 4 WLAN/LAN
- 5 Additional switch
- 6 Sensors



- 1 Internet
- 2 WLAN
- 3 Router

- 4 WLAN/LAN
- 5 Additional switch
- 6 Sensors

1.8. Ventilation unit control options

The Vallox ventilation unit can be controlled by the following means:

- Through the MyVallox control panel installed to the building
- Through the MyVallox Home LAN connection and the MyVallox Home/Cloud user interface
- Through the MyVallox Cloud service and the MyVallox Home/Cloud user interface
- Through a remote monitoring or building automation system that uses voltage signals or Modbus messages.

The ventilation unit's integrated humidity and carbon dioxide sensors control ventilation automatically, as necessary. Ventilation can also be adjusted automatically by using an optional carbon dioxide, humidity, or VOC (air quality) sensor. When these sensors are used, ventilation remains optimal even when the apartment is unoccupied. The standard equipment and available optional accessories vary from country to country.

The ventilation unit's integrated humidity and carbon dioxide sensors adjust ventilation automatically according to the need. In addition, ventilation can be automated by using optional carbon dioxide, humidity or air quality (VOC) sensors.

TIP:

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

1.9. Updating the unit software (MyVallox Touch)

We recommend that the latest software version be always used.

The software version of the ventilation unit is shown on the display of the control panel, when the unit starts up. Alternatively, the current software version can be checked from the **Unit information** display under the Service menu.

Updating the MyVallox ventilation unit with the MyVallox Touch control panel:

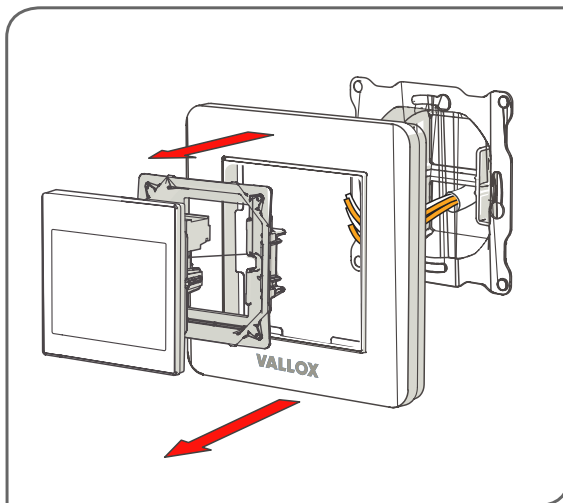
You need a computer with an internet connection, a MicroSD card and, possibly, an adapter.

Requirements for the MicroSD card:

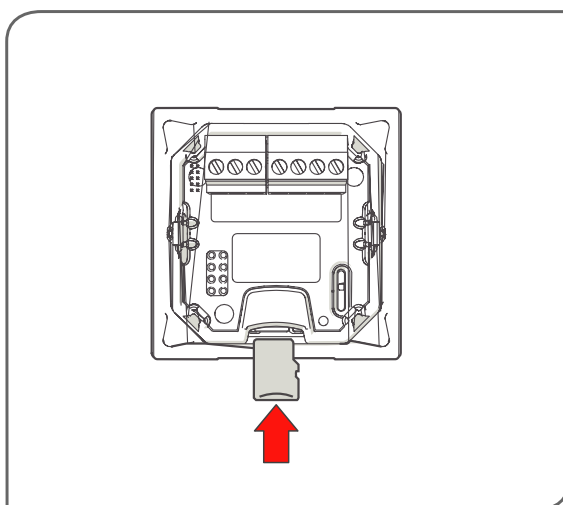
- Format FAT32 (exFAT does not work)
 - Max. Size 32GB
 - No minimum size.
1. Download the latest software version at <https://cloud.vallox.com/>.
 2. Transfer the update file HSWUPD.BIN that you have downloaded onto a MicroSD card.

! IMPORTANT: Do not change the file name!

3. Unplug the ventilation unit from the mains or turn off the fuse.
4. Disconnect the control panel from the outlet box and remove the grey mounting frame from the control panel. Do not unplug the control panel power cords.



5. Insert the MicroSD card into the control panel.



6. Plug the unit in or switch the fuse back on.

7. The control panel downloads the new software version from the MicroSD card to the control panel. A progress bar is shown on the display. This takes about one minute.
8. When the download is complete, you can remove the MicroSD card and connect the control panel back to the outlet box. Do not unplug the control panel power cords.
9. The control panel transfers the new software from the control panel to the motherboard of the ventilation unit. This may take several hours. The unit works normally but it is not recommended to use the control panel.

Once the update process is complete, the unit will restart. The unit's software version is displayed on the control panel when the unit starts up and during use: **Service menu** → **Unit information**.

1.10. Connecting the ventilation unit to the cloud service

You can connect the ventilation unit to the MyVallox Cloud service. In the cloud service, you can control ventilation remotely with a smartphone or tablet, for example. The unit software is updated automatically through the cloud service. To connect to the cloud service, the ventilation unit must be connected to the internet through LAN and registered for the cloud service. By registering the unit, you create a MyVallox Cloud account for yourself. Read more about the service at <https://cloud.vallox.com>.

To register a Vallox ventilation unit with the MyVallox Cloud service:

1. Connect one end of the network cable to the grey connector of the Vallox ventilation unit and the other end to the router.
2. Open the computer's network settings by selecting **Start** → **My Computer** → **Network**. You can see a computer icon with the text Vallox and a series of numbers. Open the MyVallox Home user interface by double clicking on the icon. The MyVallox Home user interface opens.

OR

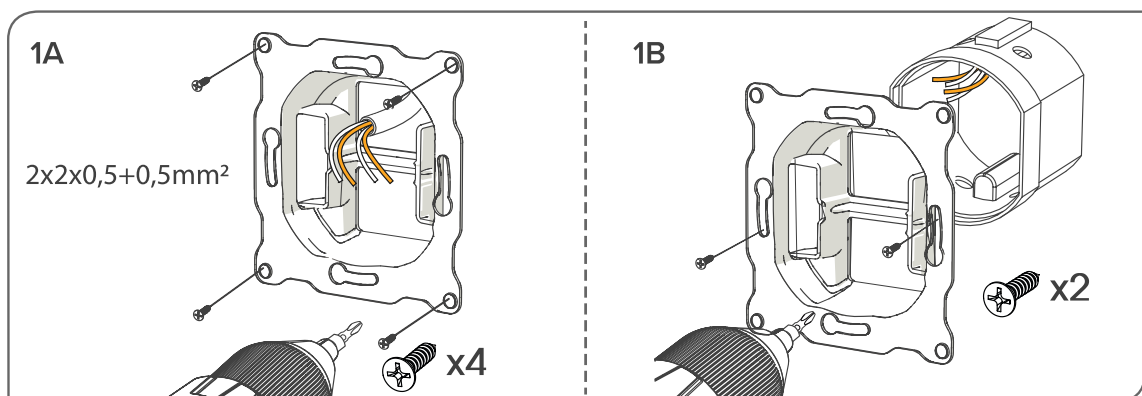
Select on the MyVallox control panel **Service menu** → **Diagnostics display** → **IP address**. Type in the IP address and press Enter. The MyVallox Home user interface opens.

3. Select Special functions.
4. The MyVallox Cloud area will open and you can see whether you are signed in to the cloud service.
5. Select **Connect**.
6. The registration page of the MyVallox Cloud cloud service opens, **Ventilation unit ID** i.e. the unique identification number of the unit will be automatically generated into the field.
7. Enter the following information in the form:
 - **Ventilation unit name** - Enter the ventilation unit name of your choice in this field.
 - **Language** - Select the desired language from the menu.
 - **Country** - Select the desired country from the menu.
 - **Choose username** - Enter the username of your choice in this field.

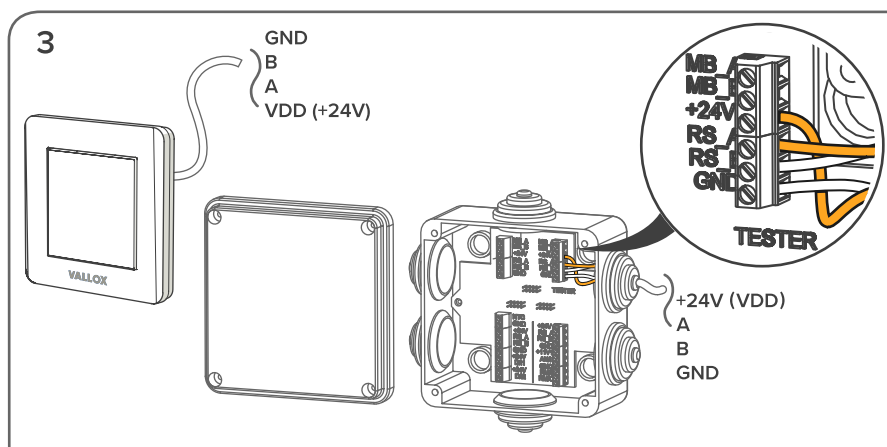
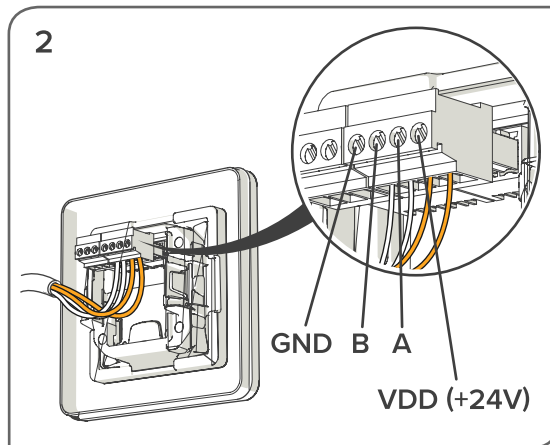
- **Email** - Enter the email address of your choice in this field.
 - **Password** - Enter the password of your choice in this field.
 - **Retype your password** - Retype your password in this field.
8. Select the **I want to receive notifications related to my ventilation unit** box if you wish to receive email notifications related to your ventilation unit.
 9. Read the terms and conditions of use of the service and select **I have read and accepted the terms and conditions of use of the MyVallox Cloud cloud service**. The use of the service requires that the user has accepted the terms and conditions.
 10. Select **Create MyVallox Cloud account**. The ventilation unit generates a unique identification code and sends it to the service. The service will remember the unit the next time you sign into the cloud service.
 11. A confirmation message will be sent to your email address. Click on the link in the message to confirm your email address and to sign in to the cloud service for the first time.
 12. Once you have signed in, the MyVallox Cloud service will open and the main page of the MyVallox Cloud account will be displayed in your browser.

1.11. Installing the MyVallox Touch control panel

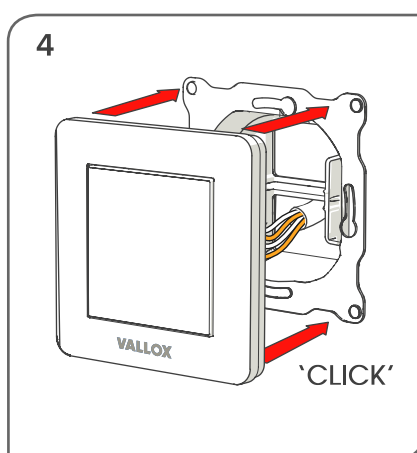
1. Screw the back of the control panel to a wall according to image 1A or to an outlet box according to image 1B.



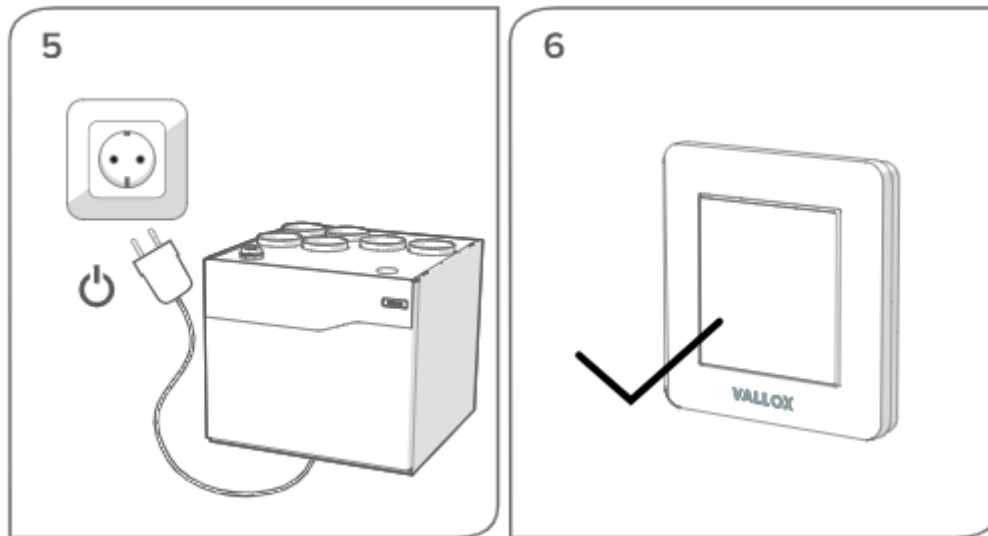
2. Connect the wires to the control panel and the ventilation unit's external connection box according to images 2 and 3.



3. Push the front cover of the control panel in place according to figure 4. You will hear a clicking sound when the cover locks into the bottom part.



4. Plug in the ventilation unit. If the wires are connected correctly, both the unit and the control panel are turned on.



1.12. MyVallox Touch panel buttons

The MyVallox Touch panel contains the buttons described in the following table. The control panel has a touch screen.

Table 1. MyVallox Touch panel buttons

Button	Description
	The arrow button allows you to change the operating mode of the ventilation unit.
	The Ventilation information button allows you to view the currently active mode information and information on temperatures and sensors.
	The Settings button opens the settings menu.
	The Back button takes you backwards in the menu.
	The Left arrow button takes you leftwards in the menu.
	The Right arrow button takes you rightwards in the menu.
	The OK button accepts the selected option.
	The Cancel button cancels the selected option.
	The Select button allows you to edit the week clock.

Button	Description
	The Edit button allows you to edit settings.
	The Plus button allows you to increase the value of the selected setting.
	The Minus button allows you to reduce the value of the selected setting.
	The Up arrow button takes you upwards in the menu.
	The Down arrow button takes you downwards in the menu.
	The Statistics button opens the temperature, relative humidity of air or carbon dioxide level graph (1 day).

2. MYVALLOX TOUCH SETUP

Use one of the following to set up the ventilation unit

- MyVallox Control panel
- MyVallox Touch panel
- MyVallox Home user interface.

This section describes, step by step, the setup of the ventilation unit by using the MyVallox Touch panel.

! IMPORTANT:

The basic fan settings must be set according to the ventilation plan. Do not change these settings.

TIP:

If you make a mistake when configuring the settings during guided setup and move to the next phase, finish the guided setup and then change the incorrect setting.

! IMPORTANT:

We recommend that the latest software version be always used. See and download the latest version at <https://cloud.vallox.com> either before or immediately after setup. See also [Updating the unit software \(MyVallox Touch\)](#).

! NOTE:

The MyVallox Touch control panel automatically switches to the sleep mode when the Sleep time set in the display settings has elapsed. You can wake up the control panel by touching the touch screen.

2.1. Start guided setup

1. Turn on the Vallox ventilation unit.
2. When you turn on the unit for the first time, the control panel displays a language menu.

2.2. Language

Select the desired language.

 Language 1/3 ▲

English	☒
Suomi	☐
Deutsch	☐

↶ ✓ ▼

2.3. Time and date

1. Set the time.

 Time

— 11:57 +

↶ ✓

2. Select 24 h On / Off.

 Time ▲

24-hour time

On	☒
Off	☐

↶ ✓ ▼

3. Select the date and set the daylight-saving time **On / Off**.


Date


Time

▲

Dayl. saving time

–

16. 10. 2020

+

On

Off

☒

☐

↶

✓

↶

✓

▼

2.4. Air flow unit (CFi)

The air flow unit options are:

- l/s
- m³/h

1. Set the air flow unit.

Airflow unit

▲

l/s

m/h³

☒
☐

↶

✓

▼

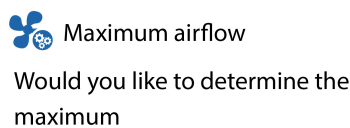
2. Proceed with the setup by selecting **OK**: ✓

2.5. Ventilation mode settings (CFi)

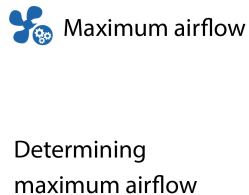
2.5.1. Maximum air flow

You can measure the ventilation unit's maximum air flow in the duct system in use. The test takes no longer than one minute and it is not mandatory. To skip the test, select **Cancel**: . If the test is skipped, the default maximum air flow value is used.

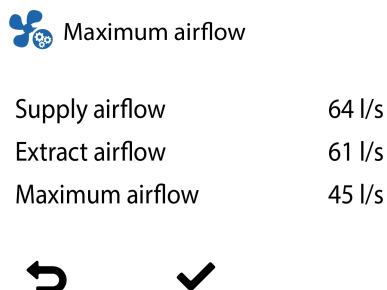
1. Select **OK**  and start the maximum air flow test.



2. The test is ongoing.



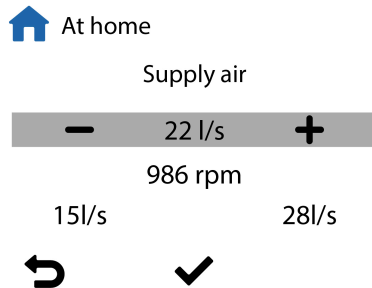
3. The maximum air flow has been determined.



If the maximum air flow is low, the supply or extract air flow may be blocked. In that case, check the ventilation unit and ducts for obstructions.

2.5.2. At Home mode settings

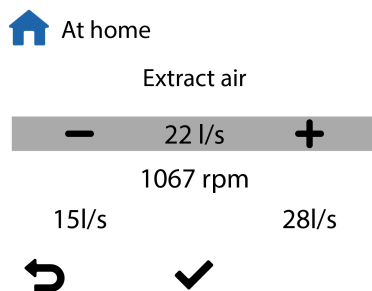
1. Set the supply air flows for the At Home mode and adjust the valves according to the ventilation plan.



NOTE:

By default, the fan speed in the At Home mode is the higher percentage of the basic ventilation air flow values set earlier. We recommend this basic ventilation output be set for the At Home mode. You can adjust the output if necessary.

2. Set the extract air flows for the At Home mode and adjust the valves according to the ventilation plan.



3. Proceed with the setup by selecting **OK**: ✓

2.5.3. Calibration

During calibration, the unit's actual operating range is determined in relation to the ducts in use. This test is mandatory. The test takes no longer than one minute.

1. The calibration screen opens after the At Home mode settings have been configured.



Calibration

In the calibration, the unit determines the correct operating range according to the duct system.



2. Select **OK**:



Calibration starts.



Calibration

Calibrating

3. After calibration, the unit's actual maximum air flow is shown in relation to the ducts in use.



Calibration

Supply airflow	65 l/s
Extract airflow	62 l/s
Maximum airflow	45 l/s

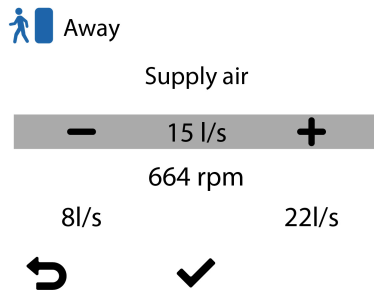


If the unit indicates that the Away or Boost modes cannot be activated, go back and adjust the air flows for the At Home mode.

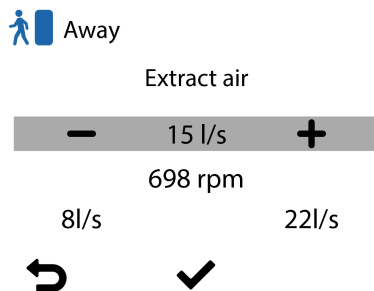
2.5.4. Away mode settings

The air flows in the Away mode are automatically 30% lower than the air flows in the At Home mode, but they can be adjusted.

1. Set the supply air flows for the Away mode and adjust the valves according to the ventilation plan.



2. Set the extract air flows for the Away mode and adjust the valves according to the ventilation plan.

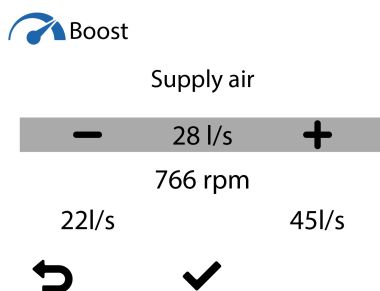


3. Proceed with the setup by selecting **OK**: ✓

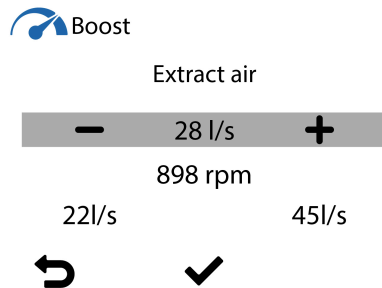
2.5.5. Boost mode settings

The air flows in the Boost mode are automatically 30% higher than the air flows in the At Home mode, but they can be adjusted.

1. Set the supply air flows for the Boost mode and adjust the valves according to the ventilation plan.



2. Set the extract air flows for the Boost mode and adjust the valves according to the ventilation plan.



3. Proceed with the setup by selecting **OK**: ✓

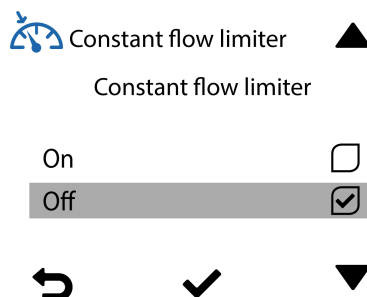
2.5.6. Constant air flow limiter

By default, the constant flow limiter is deactivated. When the function is activated, it monitors the ventilation unit's operation automatically and the unit runs as usual with the constant air flow function enabled. If ventilation performance becomes weaker due to, for example, a blocked filter, the constant air flow limiter stops the fan speed from spiking to avoid excessive noise. The limiter icon in the main view indicates when the function is active:



When the air flow goes back to normal (e.g. after the blocked filter has been cleaned), the constant air flow limiter is deactivated automatically and the unit continues to adjust the constant air flow normally. The function remains in stand-by mode. The function is used in locations where the filters are replaced centrally, for example, in apartment blocks.

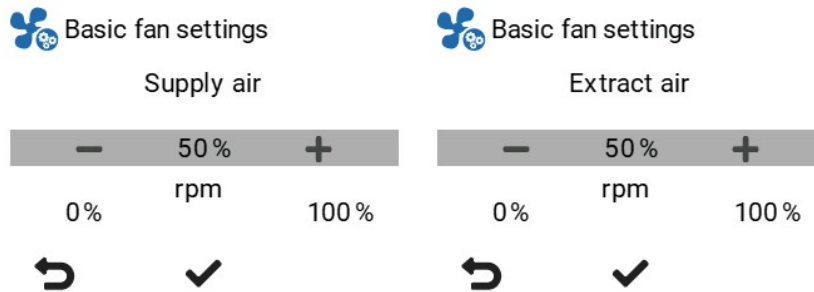
Enable or disable the constant flow limiter.



2.6. Fan settings (MV)

First, set the basic fan settings. These adjust the fan speeds in the At Home mode.

Adjust the valves and set the supply and extract air fans control percentages, that maintain the air flows set for the At Home mode.



2.7. Completion of setup

1. Select ✓ to complete the setup.

 Setup done
Are you sure you want to
continue?



2. The unit saves the settings.

Saving settings...

3. USING MYVALLOX TOUCH

3.1. Starting the unit

If you are starting the ventilation unit for the first time or after a maintenance procedure, first connect it to the mains. This will start the unit.

If the ventilation unit was turned off from the control panel (see [Turning the unit off](#)), you can start it by touching the touch screen of the unit.

3.2. Ventilation modes

The Vallox ventilation unit has five ventilation modes:

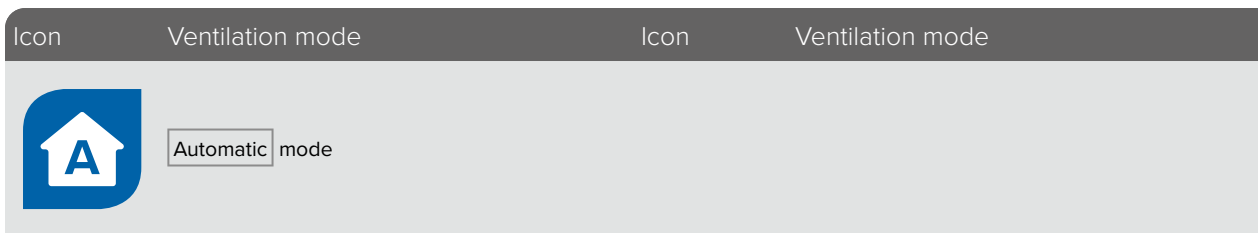
- **At Home** — Use this mode when the apartment is occupied. The Vallox ventilation unit has been set up according to the ventilation plan. The **At Home** mode changes the indoor air at the recommended rate approximately once in two hours.
- **Away** — Use this mode when the apartment is vacant for a longer period of time, e.g. during a trip or longer absence. By default, the **Away** mode's ventilation speed is 30% lower than the speed of the **At Home** mode.
- **Boost** — Use this mode to enhance ventilation when there is a large number of people in the apartment or for other reasons. By default, the **Boost** mode's ventilation speed is 30% higher than the speed of the **At Home** mode.
- **Custom** — Use this mode e.g. when lighting a fire in a fireplace. The mode is primarily used to create a momentary overpressure in the apartment.

! IMPORTANT: Prolonged overpressure can damage the building structures.

- **Automatic** — Use this mode, if the ventilation unit should maintain optimal ventilation automatically.

Table 2. Ventilation mode icons

Icon	Ventilation mode	Icon	Ventilation mode
	At Home mode		Boost mode
	Away mode		Custom mode



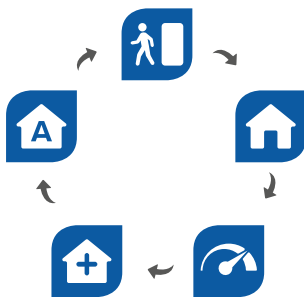
TIP:

Using the **At Home**, **Away** and **Boost** modes according to need saves energy.

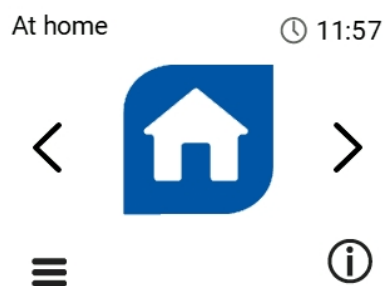
! IMPORTANT: If the **Custom** mode is used to create a momentary overpressure (as a fireplace switch, for example), the timer function may only be turned off if the external fireplace switch has a timer.

3.2.1. Changing the mode

Ventilation mode order:



Select the desired mode with the arrow buttons.



The ventilation mode has now been changed.

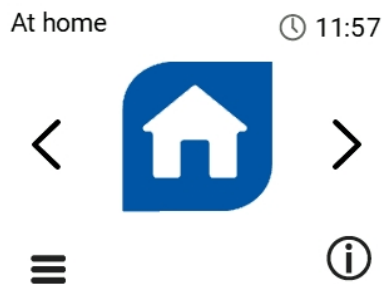
3.2.2. Browsing the ventilation mode information

The Automatic mode adjusts ventilation based on the information from humidity and carbon dioxide sensors. Humidity and carbon dioxide controls are always in operation, and the fan speed is adjusted automatically as needed.

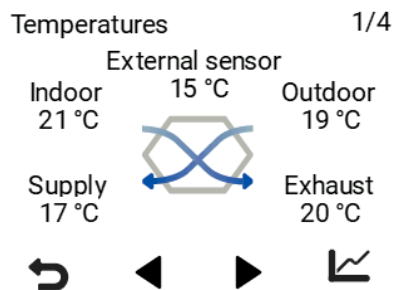
In the Automatic mode, the default speed is the Away mode's fan speed and the temperature is the At Home mode's temperature setting. Temperature and fan speed settings cannot be adjusted separately in the Automatic mode.

The Automatic mode is designed for continuous use and for maintaining good indoor air quality without separate adjustments.

1. Select the desired mode with the arrow buttons.

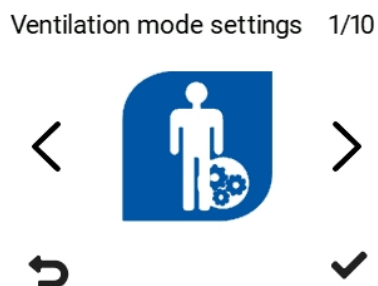


2. Select the information icon: 
3. Browse the tabs to view the information.



3.2.3. Changing the ventilation mode settings

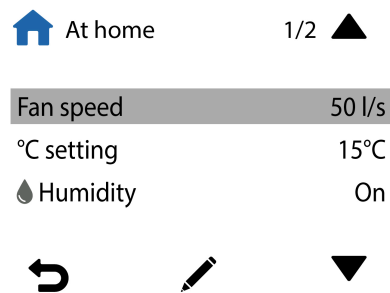
1. Select **Ventilation mode settings** in the main menu.



2. Select the ventilation mode to be edited.



3. The edit menu opens.



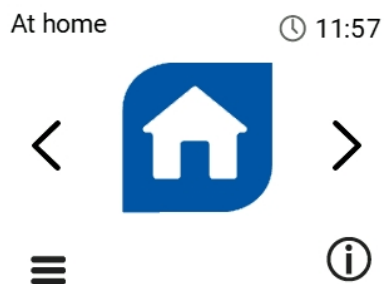
3.3. Temperatures and sensors

This section describes how to browse temperature and sensor information on the MyVallox Touch panel.

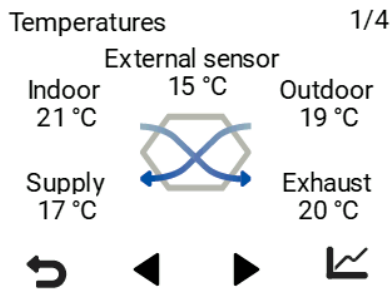
3.3.1. Browsing of temperature information

To browse temperature and sensor information:

1. Select the information icon on the main page to open the temperature data.



2. A summary of the temperatures and sensors appears:

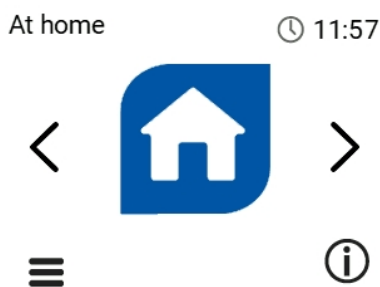


This screen shows the following information:

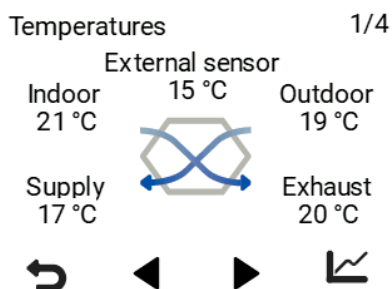
- **Indoor air** — Indicates the temperature of air flowing into the unit and extracted from the apartment.
- **Outdoor air** — Indicates the temperature of air flowing into the unit from outside.
- **Supply air** — Indicates the temperature of air flowing into the apartment from the unit.
- **Exhaust air** — Indicates the temperature of air flowing out of the unit.
- **External sensor** — The temperature of the external sensor is shown in the temperature and sensor view when the method of use is configured for the sensor in the expert settings.

3.3.2. Browsing of temperature statistics

1. Select the information icon on the main page to open the temperature data.

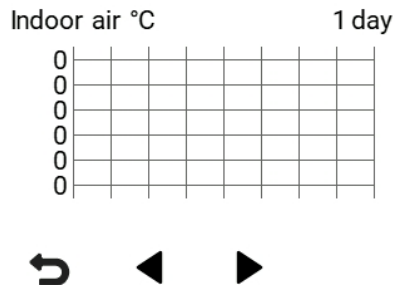


2. A summary of the temperatures appears:



3. Select **Statistics**: 

A graph describing the indoor air temperature in the past 24 hours appears:



NOTE:

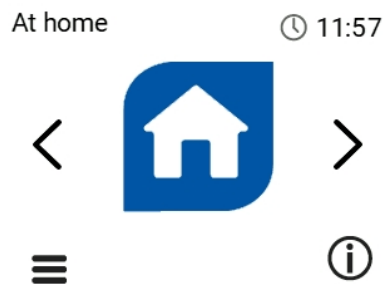
The daily statistics are reset after a power cut.

4. Browse the tabs to view temperature statistics.

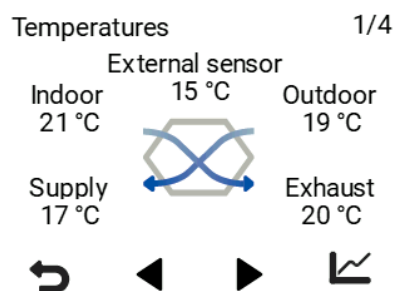
3.3.3. Browsing of humidity and carbon dioxide levels measured by the sensors

You can browse the humidity and carbon dioxide levels measured by individual sensors:

1. Select the information icon on the main page to open the temperature data.



A summary of the temperatures and sensors appears.



2. Select the **Right arrow** to access the humidity and carbon dioxide information.

A screen showing the highest relative humidity level measured by the humidity sensors opens.

Sensor	2/4	Sensor	3/4
Humidity		Carbon dioxide	
No sensors installed		No sensors installed	

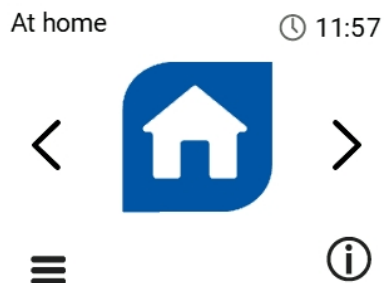


3.3.4. Browsing of relative humidity and carbon dioxide statistics

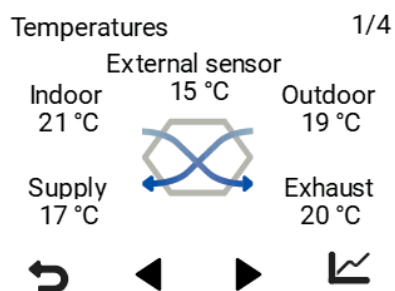
The ventilation unit's integrated humidity and carbon dioxide sensors control ventilation automatically, as necessary. Ventilation can also be adjusted automatically by using an optional carbon dioxide, humidity, or VOC (air quality) sensor.

To browse relative humidity and carbon dioxide statistics:

1. Select the information icon on the main page to open the temperature data.



A summary of the temperatures and sensors appears.



2. Select the **Right arrow** to access the humidity and carbon dioxide information.

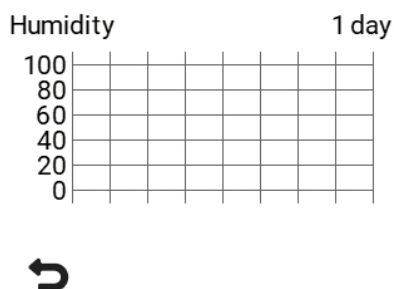
A screen showing the highest relative humidity level measured by the humidity sensors opens.

Sensor 2/4
Humidity
No sensors installed



3. Select the graph icon to browse statistics: 

A graph opens depicting the trend of relative humidity in the last 24 hours measured by the sensor that measured the highest value:



3.4. Settings

This section describes how to set and change the settings of the MyVallox Touch panel and the Vallox ventilation unit.

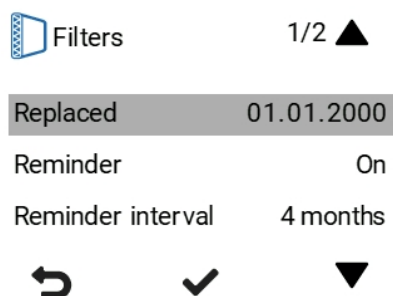
3.4.1. Filter settings

1. Select **Settings**: 

2. Select **Filters** with the arrow buttons.



3. Select **OK**: ✓
4. The summary display of replacing the filter opens:



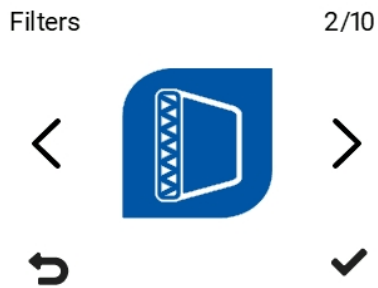
This screen shows the following information:

- **Filters replaced** — Indicates the date when the filters were last replaced.
- **Maintenance reminder** — Indicates whether the reminder is turned on or off or a special mode is in use.
- **Reminder interval** — Indicates the filter replacement interval in months.
- **Next reminder** — Indicates the date when a reminder to replace the filters will next be shown.
- **Automatic reset interval** — The number of days the filter reminder is active. After this, the filter reminder is acknowledged automatically.

3.4.1.1. Setting the reminder interval for filter replacement

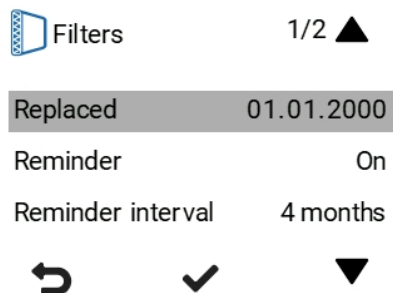
1. Select **Settings**: ☰

2. Select **Filters** with the arrow buttons.

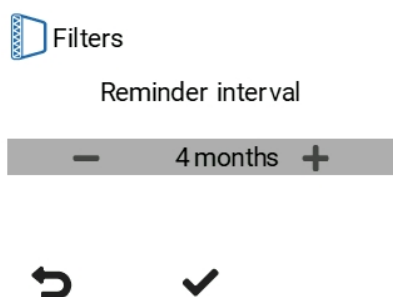


3. Select **OK** ✓

A summary view of filter replacement appears:



4. 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 factory setting is 6 months.



5. Select **OK**: ✓

3.4.1.2. Setting the filter reminder

1. Select **Settings**: ☰

2. Select **Filters** with the arrow buttons.



3. Select **OK:** ✓
4. Select **Down arrow**.
5. Select the status of the filter reminder:
 - **On** — The filter reminder is turned on and acknowledged manually.
 - **Off** — The filter reminder is turned off.
 - **Special mode** — The filter reminder is turned on and acknowledged manually or, at the latest, when the automatic reset interval ends.
6. Select **OK:** ✓

3.4.1.3. Setting the automatic filter reset interval

! NOTE: You can set the automatic filter reset interval if the reminder is a Special mode reminder.

1. Select **Settings:** ☰
2. Select **Filters** with the arrow buttons.



3. Select **OK:** ✓
4. Select **Down arrow**.
5. Set the desired automatic reset period in days. The interval value can be between 1 and 50 days. The factory setting is 14 days.
6. Select **OK:** ✓

3.4.1.4. Setting the filter replacement date

Instructions for replacing the filters are provided under *Maintenance*.

After replacing the filters, enter the replacement date.

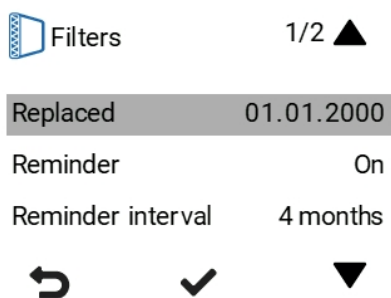
! NOTE: Based on the set reminder interval, the unit will automatically set the maintenance reminder to provide a reminder to replace the filters at the due time.

1. Select **Settings:** 
2. Select **Filters** with the arrow buttons.



3. Select **OK** 

The summary display of replacing the filter opens:



4. Use the arrow buttons to select **Filters replaced.**

5. Select , if you want to update the filters as having been replaced today.



Would you like to reset the filter replacement date?



! NOTE:

Based on the set reminder interval, the unit will automatically set the maintenance reminder to give a reminder to replace the filters at the due time. See [Setting the reminder interval for filter replacement](#) and [Filter maintenance reminder](#).

3.4.1.5. Filter maintenance reminder

The maintenance reminder appears in a pop-up window to remind the user to replace the filter.

The message can be acknowledged by selecting .

Select to postpone the reminder by a week.

3.4.2. Display settings

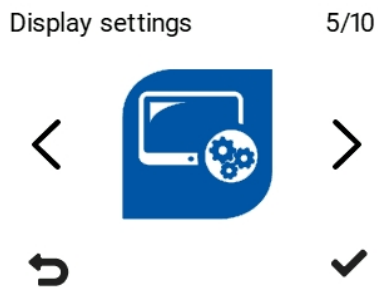
The next sections describe the display settings.

3.4.2.1. Setting a sleep time

The MyVallox Touch panel automatically switches to the sleep mode when the pre-set sleep time has elapsed.

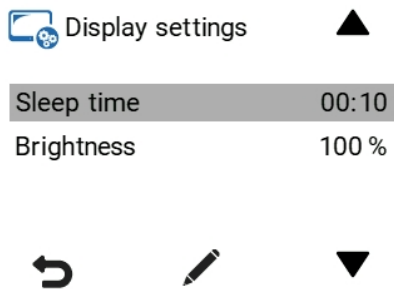
1. Select 

2. Select **Display settings** with the arrow buttons.

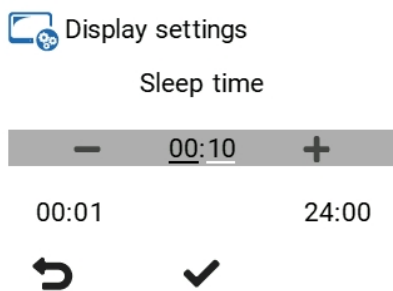


3. Select **OK**: ✓

The **Display settings** screen opens.



4. Select **Sleep time**.



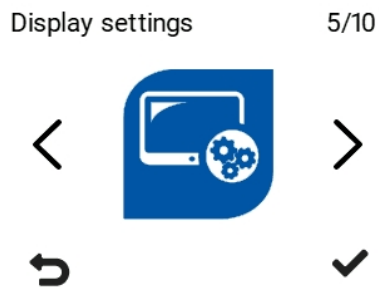
5. Use the **Plus** and **Minus** buttons to set the **Sleep time** in minutes.

6. Select **OK**: ✓

! NOTE: The MyVallox Touch control panel automatically switches to the sleep mode when the pre-set **sleep mode** has elapsed. To reactivate the MyVallox Touch control panel, press any button.

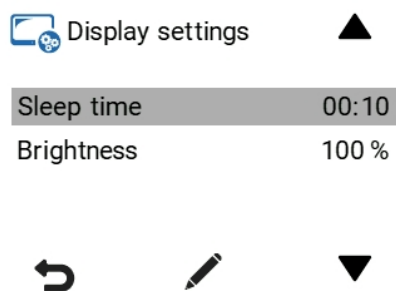
3.4.2.2. Adjusting the display brightness

1. Select **Settings:** 
2. Select **Display settings** with the arrow buttons.

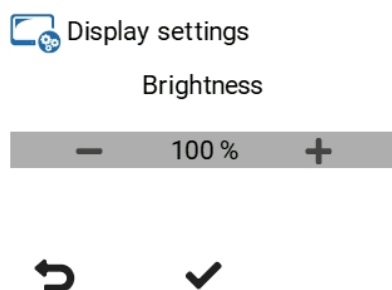


3. Select **OK** .

The **Display settings** screen opens.

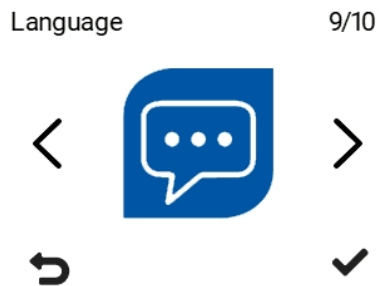


4. Select **Brightness**.
5. Use the **Plus** and **Minus** buttons to adjust the display brightness.

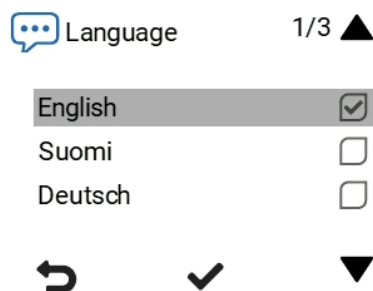


3.4.3. Selecting the user interface language

1. Select **Settings:** 
2. Select **Language**.



3. Select **OK:** 
4. Use the arrow buttons to select the desired language.



5. Select **OK:** 

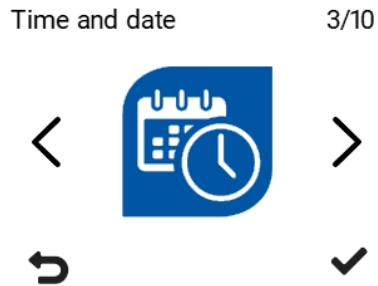
3.5. Time and date

The available time settings are:

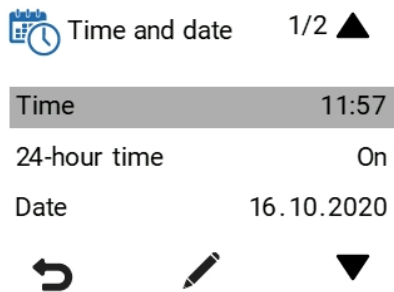
- Time
- 24-hour or 12-hour clock
- Date
- Automatic daylight-saving time.

! NOTE: The time is not affected by a power cut of a few hours.

1. Select **Settings**:
2. Select **Time and date**.



3. The **Time and date** settings open.



Options in this menu:

- a. Ventilation unit time
- b. 12-hour or 24-hour clock
- c. Date
- d. Automatic daylight-saving time

3.6. Week clock

The week clock allows you to pre-set a weekly ventilation programme for the ventilation unit. You can set one of the following modes for each hour of the week:

- **At Home** — The At Home mode is used.
- **Away** — The Away mode is used.
- **Boost** — The Boost mode is used.
- **Custom** — The Custom mode is used.
- **Standby mode** — The ventilation unit has been turned off.
- **Empty** — The previous mode is used.

! NOTE:

If you change the mode manually when the week clock is on, the selected mode will remain active until the week clock switches to the next mode in the programme.

If ventilation is being controlled by the humidity, carbon dioxide or VOC sensors, they will adjust the fan speed regardless of whether a mode has been manually selected or selected by the week clock.

! IMPORTANT:

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 interruptions. 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.

! IMPORTANT:

When using the Custom mode, the apartment must not remain overpressured for a long time.

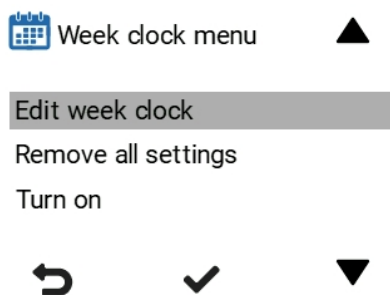
3.6.1. Setting and editing a weekly program

1. Select **Settings:** 
2. Select **Week clock turned on** / **Week clock turned off**.

Week clock turned off 10/10



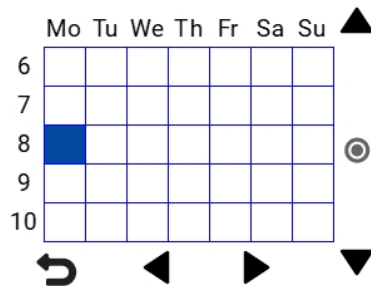
3. **Week clock menu** opens:



4. Select **Edit week clock**.

5. Select **OK:** 

6. Select **Right arrow** to set the date.



7. Select **Down arrow** to set the time.
8. Use the **Select** button to browse and select the ventilation mode that will be turned on at the chosen time. The icons are:

- At Home mode:



- Away mode:



- Boost mode:



- Custom mode:



- Standby mode:



9. Set the other ventilation mode changes to the week clock as described above. See also [Example of setting a weekly program](#).
10. Once you have selected the modes for the week clock, select **Back**.

11. Select **OK**, if you want to save the changes made to the week clock. Select **Cancel**, if you do not want to save the changes. Select **Back**, if you want to go back to editing the week clock.

The week clock is now in use and follows the weekly program.

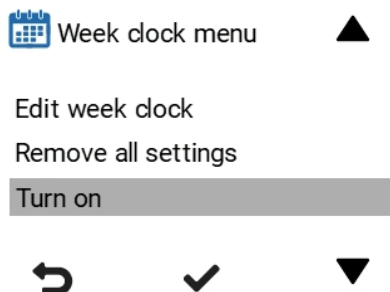
3.6.2. Turning on the week clock

1. Select **Settings:** 
2. Select **Week turned off.**

Week clock turned off 10/10



3. **Week clock menu** opens:



4. Select **Turn on** with the arrow buttons.
5. Select **OK:** 

The confirmation screen opens:

Week clock turned on



The week clock is now in use and follows the weekly program.

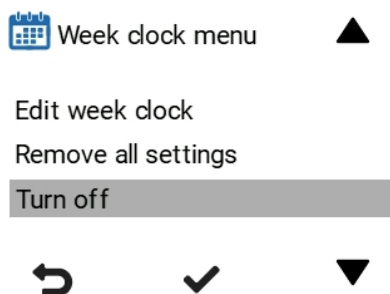
3.6.3. Turning off the week clock

1. Select **Settings:** 
2. Select **Week clock turned on.**

Week clock turned on 10/10



3. Select **OK:** 
4. Select **Turn off.**



5. Select **OK:** 

The confirmation screen opens:

Week clock turned off



The week clock is now disabled. If you have set a weekly program, it is not deleted.

3.6.4. Resetting the week clock

To reset a weekly program you have set:

1. Select **Settings:** 
2. Select **Week clock turned on / Week clock turned off.**

Week clock turned off 10/10



3. Select **OK:** 
4. Select **Remove all settings.**

 Week clock menu 

Edit week clock

Remove all settings

Turn on



5. Select **OK** to accept the deletion of the weekly programme: 

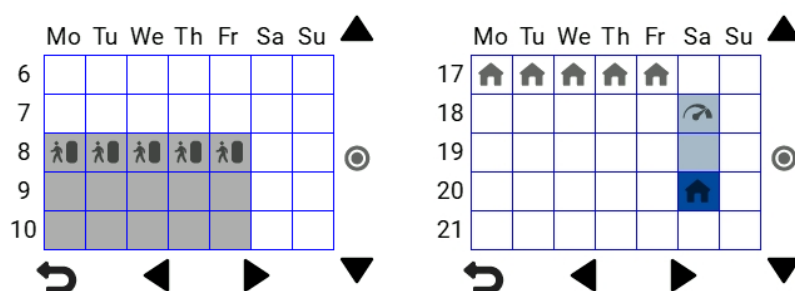
The week clock has now been reset.

3.6.5. Example of setting a weekly program

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

- Mon–Fri 8–16, you are not home.
- Mon–Fri 17–7, you are home.
- Sat 8–17, you are home.
- Sat 18–20, you are home and need boosted ventilation e.g. for cooking.
- From Sat 20 until Mon 8, you are home.

In the images below, the week clock has been set according to the example:



Set the week clock:

1. Open the week clock.
2. Select Monday, and make the following settings:
 - a. 08:00: select the **Away** mode.
 - b. 17:00: select the **At Home** mode.
3. Then make the corresponding settings for the other weekdays.
4. Then select Saturday, and make the following settings:
 - a. 18:00: set the **Boost** mode.
 - b. 20:00: set the **At Home** mode.
5. Make sure the week clock is in use. If not, see [Turning on the week clock](#).

The weekly programme has now been set.

! NOTE: Do not set a ventilation mode separately for every hour. Only include in the weekly programme hours when you want the ventilation mode to change.

3.7. Timed function

3.7.1. Enabling/disabling the timed function

The timed function allows you to adjust ventilation for a specific period of time, for example, for the duration of a holiday. You can select a ventilation mode and set a start and end date for this mode.

If the timed function is enabled and you switch the ventilation unit to another mode manually, the unit returns to the timed mode at the next midnight. When the pre-set period ends, the unit switches automatically back to the **At Home** mode.

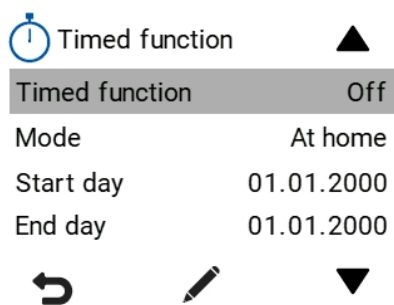
! NOTE: When the timed function activates, the weekly program is disabled. If the weekly program was active before the activation of the timed function, it reactivates automatically after the pre-set period.

1. Select **Settings:** 
2. Select **Timed function** with the arrow buttons.

Timed function 4/10



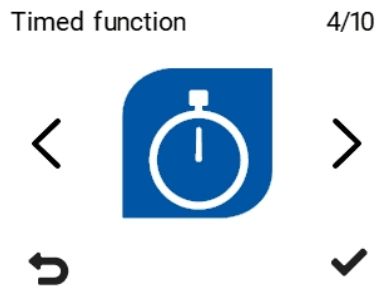
3. Enable or disable the **Timed function**:



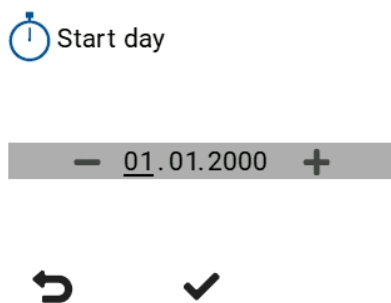
3.7.2. Setting the timed function's start and end date

1. Select **Settings:** 

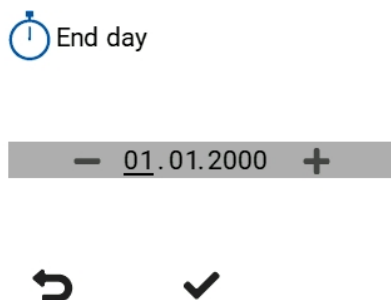
2. Select **Timed function** with the arrow buttons.



3. Set the start date for the timed function:



4. Set the end date for the timed function:



3.7.3. Selecting a timed ventilation mode

The timer function allows you to adjust ventilation in advance for a specific period of time, for example, for the duration of a holiday or another absence. You can pre-set any of the following ventilation modes:

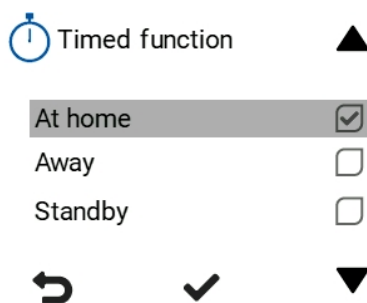
- **Away** – The ventilation unit operates at a lower intensity to save energy during your absence.
- **At Home** – The ventilation unit operates at a normal intensity like in normal use.
- **Standby mode**: The ventilation unit is stopped (not recommended for constant use).

! IMPORTANT: Stopping the ventilation can deteriorate the indoor air quality, increase the accumulation of moisture in the building structures and potentially lead to mildew or ice. If you want to reduce ventilation, it is better to use the **Away** mode. In this mode, the ventilation unit operates at a lower intensity but does not stop completely.

1. Select **Settings:** 
2. Select **Timed function** with the arrow buttons.



3. Select the desired ventilation mode.



3.8. Expert settings

This section describes how to set and change the expert settings of the MyVallox Touch panel and the Vallox ventilation unit.

3.8.1. Basic fan settings (CFi)

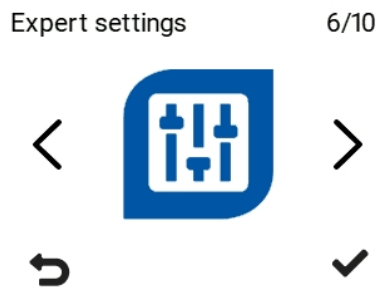
The basic air flow setting values can be adjusted on this configuration page. The operation of these values is based on the same principle as the air flow adjustment that is carried out during setup.

- The set value for Away mode air flows cannot be higher than the At Home or Boost mode air flows.
- The set value for At Home mode air flows cannot be lower than the Away mode air flows or higher than the Boost mode air flows.
- The set value for Boost mode air flows cannot be lower than the At Home or Away mode

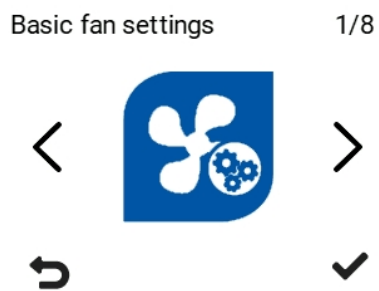
air flows.

This configuration page is designed for fine tuning these values. If the ventilation unit air flows need to be measured again, it is recommended to restart the setup process.

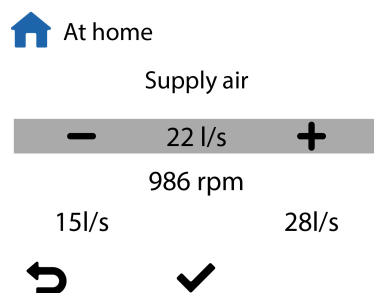
1. Open **Expert settings**.



2. Select **Basic fan settings**.



3. Set the supply and extract air flows.



3.8.2. Adjusting the supply and extract air flows (MV)

! IMPORTANT:

Adjust the air flows according to the ventilation plan. First, set the valves to the correct adjustment positions. Next, set the fans as close to the optimal value as possible by consulting the fan diagram. You can use the gauge fittings connected to the unit or delivered with the unit when adjusting the total air flow of the system. Then, measure and adjust the air flows from the valves. Try to adjust the air flows without choking them with the valves. This makes the solution as quiet and energy-efficient as possible. If the output ratio between the air flows is very high at first, the ventilation unit may have to carry out extra defrosting cycles in sub-zero temperatures, thus making adjustment of the air flows more complicated.

! NOTE:

If the outdoor air is extremely cold (below -10°C with an aluminium cell or below -3°C with a plastic cell), the ventilation unit may have to defrost the heat recovery cell. The air flows cannot be adjusted during defrosting.

Defrosting the HR cell



! ATTENTION: The supply and extract air settings have been set by a specialist during the setup of the ventilation unit. These settings should be changed only when the ventilation unit is reconfigured, and not at any other time. Changing the ventilation settings so that overpressure is created can result in damage to the structures of the building.

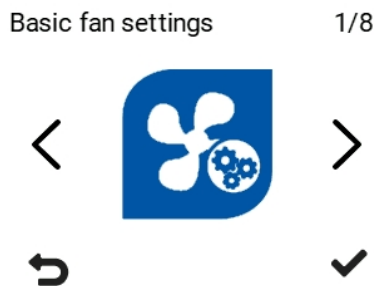
1. Open **Expert settings**.

Expert settings

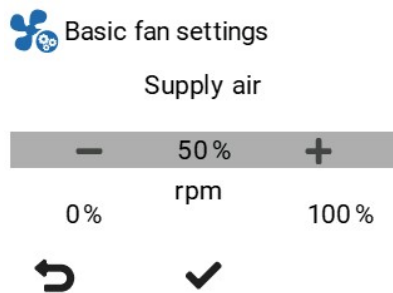
6/10



2. Select **Basic fan settings**.



3. Select the supply or extract air fan and set the target fan speeds.



3.8.3. I/O and bus settings

3.8.3.1. Control panel address

If two control panels have been connected to the ventilation unit, the panel addresses must be different. In other words, each control panel must have a unique address. If only one control panel is used, its address can be any number between 11 and 19.

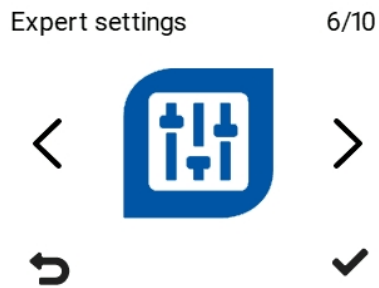
! IMPORTANT:

If your system uses multiple control panels, connect them one at a time.

To set a control panel address:

1. Select **Settings**: 

2. Select **Expert settings** with the arrow buttons.



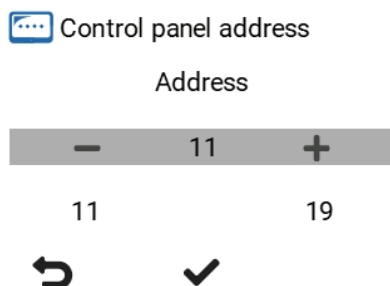
3. Select **OK**: ✓
4. Use the arrow buttons to select **I/O and bus settings**.



5. Select **OK**: ✓
6. Select **Control panel address**.



7. Select **OK**: ✓
8. The **Control panel address** screen opens.



9. Use the **Plus** and **Minus** buttons to set the control panel address. You can set the address between 11 and 19.

10. Select **OK**: ✓

The control panel address has now been set.

3.8.3.2. Modbus settings

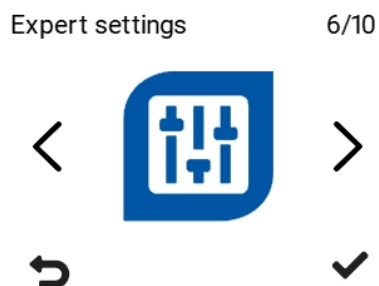
If the ventilation unit is connected to e.g. a building automation system via Modbus, configure the Modbus settings. The Modbus settings are:

- Ventilation unit's Modbus address
- Modbus baud rate
- Modbus parity
- Modbus stop bit.

The configuration of all Modbus settings is described below in the above-mentioned order. You can also refer to these instructions when configuring individual settings, such as the Modbus address.

To configure the Modbus settings:

1. Select **Settings**: ☰
2. Select **Expert settings** with the arrow buttons.

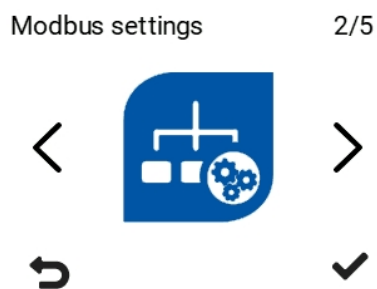


3. Select **OK**: ✓

4. Use the arrow buttons to select **I/O and bus settings**.

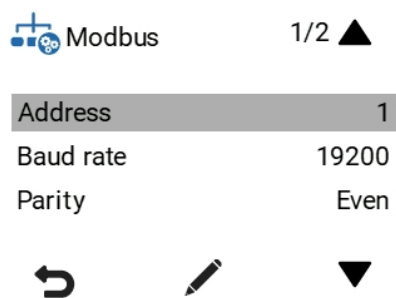


5. Select **Modbus settings** with the arrow buttons.

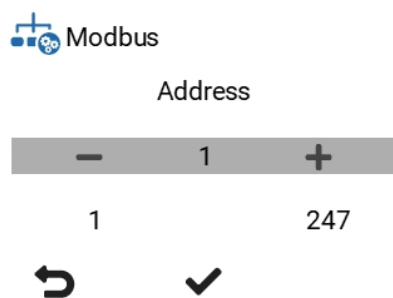


6. Select **OK**: ✓

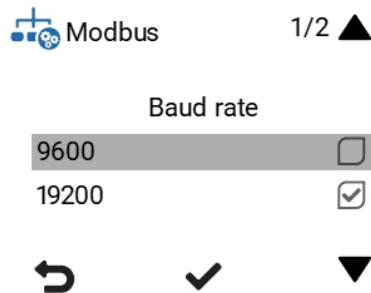
The Modbus menu opens.



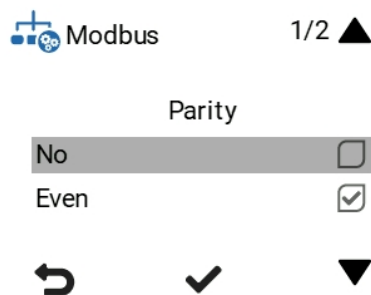
7. Set the ventilation unit's Modbus address with the **Up arrow** and **Down arrow** buttons. You can set the address between 1 and 247.



8. Use the **Up arrow** and **Down arrow** buttons to set the **Baud rate** of the Modbus. The options are 9600, 19200, 38400, 57600 or 115200.



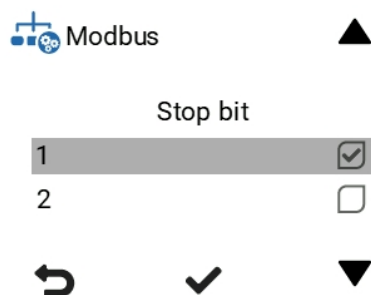
9. Use the **Up arrow** and **Down arrow** buttons to set the **Parity** of the Modbus.



The options are:

- **no** — No parity
- **even** — Even parity
- **odd** — Odd parity.

10. Use the **Up arrow** and **Down arrow** buttons to set the **Stop bit** of the Modbus. The options are 1 or 2.



11. Select **OK**: ✓

The Modbus settings have now been set.

3.8.3.3. Relay settings

In the **Relay settings** menu, you can choose the operating mode of the ventilation unit's 24 V relay. Only one operating mode can be selected at a time.

NOTE:

The information is also accessible through the Modbus.

To set the operating mode of the ventilation unit's relay:

1. Select **Settings**: 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10



3. Select **OK**: 
4. Use the arrow buttons to select **I/O and bus settings**.

I/O and bus settings 2/8



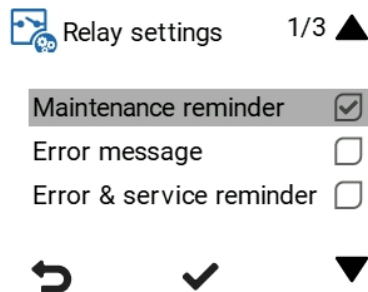
5. Select **OK**: 
6. Select **Relay settings**.

Relay settings 3/5



7. Select **OK**: ✓

The **Relay settings** screen opens.



8. Use the arrow buttons to select the operating mode of the 24 V relay. The options are described in the table below:

Table 3. Relay functions

Function	Ends closed	Ends open
Maintenance reminder — When the unit's maintenance reminder is activated, the relay changes its mode. This change of mode can be read by the building automation system, for example.	Normal operation	Maintenance reminder
Error message — If there is an error in the ventilation unit, the relay changes its mode. This change of mode can be read by the building automation system, for example. The error is also recorded in the error log.	Normal operation	Error situation
Error message and maintenance reminder — If the unit's maintenance reminder is activated or if there is an error in the ventilation unit or the unit has been turned off, the relay changes its mode. This change of mode can be read by the building automation system, for example. The maintenance reminder notifies the user of the need for maintenance every four months (factory setting). For more information, see <i>Maintenance</i> .	Normal operation	Maintenance reminder/error
Emergency stop — If the unit's emergency stop is activated, the relay changes its mode. The emergency stop is usually activated by an external signal received through the digital input. The emergency stop information can be sent to the building automation system, for example.	Normal operation	Emergency stop
Position of the bypass damper — The relay indicates the bypass damper position. This change of mode can be read by the building automation system, for example.	Heat recovery	Cell bypass
Duct radiator control — This setting is used in special situations, in which a duct radiator has been installed in the ventilation duct. The relay can be used to control devices connected to the duct radiator, such as the pump, solenoid valve etc. For more information, see <i>Duct radiator control</i> .	On	Off

Function	Ends closed	Ends open
! NOTE: The relay's voltage is only 24 V, so the information cannot be directly used to control the 230 VAC feed and e.g. a contactor is needed in between.		
None — The relay function is not in use.	Normal operation	Normal operation
Air heating — This setting is used in the warm-air heater. Use the relay to control the liquid radiator actuator of the warm-air heater.	On	Off
On/off status — The relay will change the mode in error situations or when the unit has stopped.	Normal operation	Error situation/the unit has stopped

9. Press **OK** to confirm the selection: ✓

10. When you have confirmed the selection, press **Back**: ↶

The operating mode of the ventilation unit's 24 V relay has now been set.

3.8.3.4. Duct radiator control

The duct radiator can be placed in the outdoor or supply air duct. If the duct radiator is placed in the outdoor air duct, it can be used for pre-heating and/or cooling. If the duct radiator is placed in the supply air duct, it can only be used for cooling.

The duct radiator can be set to work automatically or manually.

- **Automatic** — In summer, the set supply air temperature is maintained. In winter, the duct radiator is switched on when the outdoor air temperature drops below the winter setting.
- **Manual** — In summer, the duct radiator is switched on when the outdoor air temperature rises above the summer setting. In winter, the duct radiator is switched on when the outdoor air temperature drops below the winter setting.

To eliminate the supply air duct's condensation risk, decide whether the supply air limit is adjusted automatically or manually:

- **Automatic** — The supply air limit is adjusted automatically according to the extract air dew point. When the supply air temperature drops too low, the duct radiator is switched off.
- **Manual** — The supply air limit can be set manually. When the supply air temperature drops below the set value, the duct radiator is switched off.

! IMPORTANT:

Please note the risk of condensation when changing the duct radiator settings.

1. Select **Settings**: 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10



3. Select **OK**: 
4. Use the arrow buttons to select **I/O and bus settings**.

I/O and bus settings 2/8



5. Select **OK**: 
6. Select **Relay settings** with the arrow buttons.

Relay settings 3/5



7. Select **OK**: 

The **Relay settings** screen opens.

 Relay settings 1/3 ▲

Maintenance reminder ☒

Error message ☐

Error & service reminder ☐



8. Select **Duct radiator control** as the relay's operating mode with the arrow buttons.

The **Duct radiator settings** screen opens.

Duct radiator settings 1/3 ▲

Operation Automatic

Summer setting 15°C

Winter setting -5°C



9. Use the arrow buttons to set the operation of the duct radiator.

Duct radiator settings ▲

Operation

Automatic ☒

Manual ☐



The options are:

◦ Automatic

◦ Manual

10. Use the **Plus** and **Minus** buttons to set the summer setting.

Duct radiator settings

Summer setting

– 15°C +

12°C

25°C



NOTE:

If the operating method of the duct radiator is set to automatic, the summer setting cannot be changed. You can adjust the temperature between +10°C and +25°C. The factory setting is 15°C.

- Use the **Plus** and **Minus** buttons to set the winter setting. You can adjust the temperature between -10°C and +5°C. The factory setting is -5°C.

Duct radiator settings

Winter setting

—
- 5°C
+

- 10°C
5°C

↶
✓

- Use the arrow buttons to select the duct radiator operating mode.

Duct radiator settings 1/2 ▲

Duct radiator

Cooling
☒

Pre-heating
☐

↶
✓
▼

The options are:

- Both** — The duct radiator is used for pre-heating and cooling.
- Pre-heating** — The duct radiator is only used for pre-heating.
- Cooling** — The duct radiator is only used for cooling.

- Use the arrow buttons to configure how the supply air limit is adjusted.

Duct radiator settings 1/3 ▲

Operation	Manual
Summer setting	15°C
Winter setting	- 5°C

↶
✎
▼

The options are:

- Automatic** — The supply air limit is adjusted automatically according to the extract air dew point.
- Manual** — The supply air limit can be set manually.

14. Use the arrow buttons to select the adjustment method of the supply air limit. You can adjust the temperature between +12°C and +25°C.

Duct radiator settings 3/3 ▲

Lower threshold limit 18 °C
supply air



! NOTE:

If you have selected automatic supply air limit adjustment, you cannot adjust the supply air limit manually.

3.8.3.5. Input settings

The ventilation unit has three inputs: one analog input and two digital inputs. You can assign different functions to each input according to the table below. The digital controls can be implemented by a push button or rocker switch. Both digital inputs recognise the switch type automatically.

Potential uses of the analog and digital inputs include a request to boost ventilation from the cooker hood/central vacuum system or a button for activating the Custom mode next to the fireplace.

The push button functions are activated whenever the push button is released. To cancel a push button function, press the button for five seconds. The rocker switch function is triggered by the switch position. When the switch is turned to ON, the function is activated. When the switch is turned to OFF, the function is deactivated. You can cancel the rocker switch function by pressing the switch for five seconds.

! NOTE:

When you turn the rocker switch to ON for the first time, the function is activated after a five-second delay. After the first time, the function is activated immediately.

The rocker switch can also be used to activate a push button function. To do this, turn the switch to ON for less than five seconds. To cancel the push button function, turn the rocker switch to the ON position for more than five seconds.

The mode selected last from any user interface stays active.

You can make changes to the three inputs in the **Input settings** menu.

To make changes to the ventilation unit's analog input or digital inputs:

1. Select **Settings:** 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10



3. Select **OK:** 
4. Use the arrow buttons to select **I/O and bus settings**.

I/O and bus settings 2/8



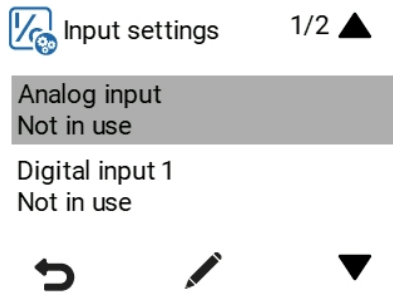
5. Select **OK:** 
6. Select **Input settings** with the arrow buttons.

Input settings 4/5



7. Select **OK:** 

The **Input settings** screen opens:



8. Select an input by browsing the menu with the arrow buttons. Press **OK** at the input you want to select. The options are:

- **Analog input** — Select an analog input function.

The options are given in the table below:

Table 4. Analog input functions

Function	Voltage rating
Stop, Away, At Home, Boost, 0.1–1.0 V, 2–4 V, 5–7 V, 8–10 V — The remote monitoring system uses these voltage signals to control ventilation by changing the ventilation mode.	Stop=0.1–1.0 V, Away= 2–4 V, At Home= 5–7 V, Boost= 8–10 V
Supply air temperature control, 0–10 V = +5°C – +25°C — The remote monitoring system uses these voltage signals to control ventilation by adjusting the supply air temperature.	0–10 V = +5°C – +25°C

- **Digital input 1 / Digital input 2** — Assign a function for digital input 1 or 2.

The options are given in the table below:

Table 5. Digital input control functions

Function	Rocker switch		Push button
	0 V	24 V	24 V pulse for less than 5 seconds
Custom mode off/on 0V / 24V	Off	On	On for the set time
At Home/Away 0V / 24V Does not work in the <i>Boost</i> mode.	-	Away	Switches the mode between <i>At Home</i> and <i>Away</i> .
Emergency stop / Normal operation 0V / 24V	Unit shuts down	Normal operation	-

Function	Rocker switch		Push button
	0 V	24 V	24 V pulse for less than 5 seconds
Boost off/on 0V / 24V When the Boost mode is deactivated, the unit switches back to the previous ventilation mode.	Off	On	On for the set time.
Normal operation / HR cell bypass 0V / 24V	Automatic	Cell bypass	Switches the bypass mode
Week clock off/on 0V / 24V	Off	On	Switches the week clock mode
Programmable input off/on 0V / 24V	Off	On	On for the set time

NOTE:

Only one function per input can be active at a time.

9. When you are done, select **Back** two times:



The ventilation unit's input settings have now been configured.

3.8.3.6. Programmable input

The programmable input can be used to compensate for negative pressure caused by a central vacuum system or cooker hood, for example. When the building automation system detects that the device has been turned on, it sends a signal to the digital programmable input. The ventilation unit adjusts the air flows according to the values set.

NOTE:

The ventilation unit has two digital inputs (digital input 1 and digital input 2). You can set the programmable input to activate from either digital input, but there is only one programmable input profile. Therefore, both digital inputs have the same settings.

To programme an input:

1. Select **Programmable input, 0 V / 24 V, for one digital input**. See [Input settings](#).

2. Set the duration of the programmable input in hours and minutes.

Programmable input 1/2 ▲

Duration	00:10
Supply fan	50 l/s
Extract fan	50 l/s

↶ ✎ ▼

3. **CFi**: Set the air flows of the programmable input's supply air fan and extract air fan (l/s or m³/h).

Figure 1. CFi

Programmable input	Programmable input
Supply fan	Extract fan
– 50 l/s +	– 50 l/s +
0 l/s 100 l/s	0 l/s 100 l/s
↶ ✓	↶ ✓

MV: Set the supply air fan and extract air fan output as a percentage of the maximum output for the programmable input.

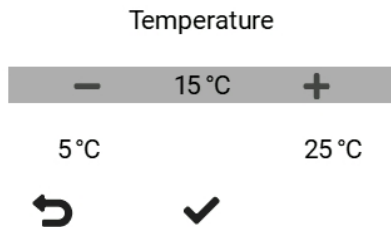
Figure 2. MV

Programmable input	Programmable input
Supply fan	Extract fan
– 50 % +	– 50 % +
0% 100%	0% 100%
↶ ✓	↶ ✓

! NOTE: When compensating for differences in pressure, the difference between the supply and extract air flows should not exceed 30%.

- Set the target supply air temperature for the programmable input. The temperature range is +5°C – +25°C. The factory setting is 15°C.

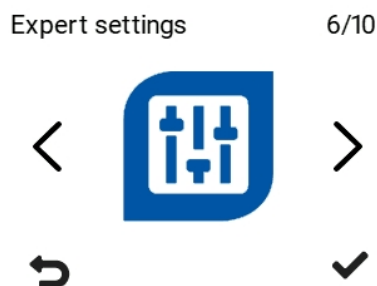
Programmable input



The programmable input settings have now been configured. In addition to the aforementioned expert settings, the MyVallox Home/Cloud user interface can be used to enable or disable a timer.

3.8.3.7. External sensor settings

- Select **Settings:** 
- Select **Expert settings** with the arrow buttons.



- Select **OK:** 
- Use the arrow buttons to select **I/O and bus settings**.



- Select **OK:** 

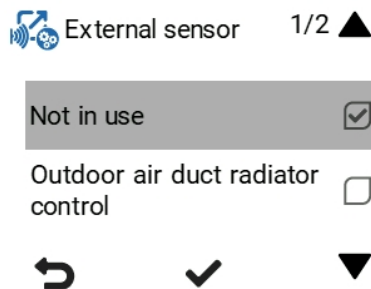
6. Select **External sensor settings** with the arrow buttons.

External sensor settings 5/5

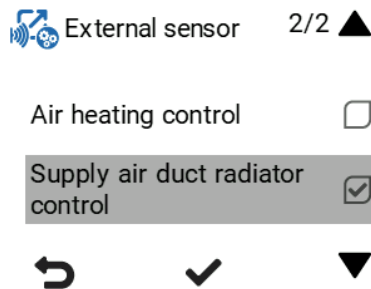


7. Select **OK**: ✓

The **External sensor settings** screen opens:



8. Use the arrow buttons to select the external sensor's operating mode.



The options are:

- **None** — No external sensor in use.
- **Outdoor air duct radiator control** — The duct radiator and external sensor are in the outdoor air duct.
- **Air heating control** — Only used for air heating control.
- **Supply air duct radiator control** — The duct radiator and external sensor are in the supply air duct.

3.8.4. Access rights

3.8.4.1. Access code

The access code is used to restrict the use of the ventilation unit functions at different access levels. If the access code prompt is enabled and the access level is limited or normal, the user is required to enter the access code before certain settings can be changed.

When the access code prompt is active, a lock icon appears on the screen. The access code consists of four digits.

! NOTE:

If you do not change the default access code 0000, the access code prompt is disabled.

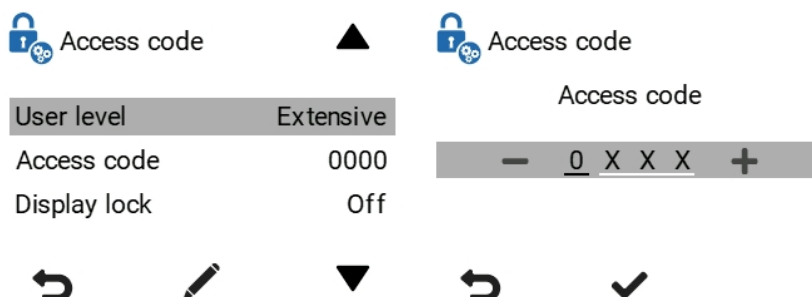
To set a new access code:

1. Select **Settings**: 
2. Open **Expert settings** and select **Access rights**.

Access rights 3/8



3. Go to **Access code** and select **Edit**  to change the access code. The default access code is 0000, and the access code prompt is disabled.



3.8.4.2. User level

The user level determines which settings the user can edit and view. The available user levels:

- **Limited** — The user can change the ventilation mode and view the ventilation unit information. However, the user cannot change the system settings.
- **Normal** — The user can view the ventilation unit information and make limited changes to the settings. Access to expert settings is restricted.
- **Extensive** — The user can change all settings of the ventilation unit.

The factory-set access level is **Extensive**.

TIP: See also [User level diagrams](#).

To change the access level of the ventilation unit:

1. Select **Settings**: 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10

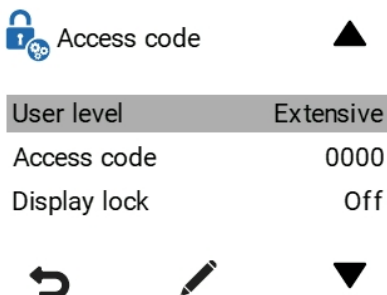


3. Select **Access rights** with the arrow buttons.

Access rights 3/8



4. Select **User level**.



- Set the user level.

 Access code 1/2 ▲

User level

Limited	☒
Normal	☐

↩ ✓ ▼

NOTE: The user restrictions are applied after an access code has been set.

3.8.4.3. Display lock

- Select **Settings**:
- Select **Expert settings** with the arrow buttons.

Expert settings 6/10

<  >

↩ ✓

- Select **Access rights** with the arrow buttons.

Access rights 3/8

<  >

↩ ✓

- Select **Display lock**.

 Access code ▲

User level	Extensive
Access code	0000
Display lock	Off

↩ ✎ ▼

5. You can enable or disable the screen lock. By default, the screen lock is disabled. The default lock code is 1001.

3.8.5. Defrost settings

The next sections describe the settings related to the ventilation unit's defrosting feature.

3.8.5.1. Defrosting method

The HR cell is defrosted when ice has accumulated in the cell. The selected defrosting method determines how the defrosting is done. The defrosting process takes about 15–45 minutes depending on the amount of ice. It is normal for the unit to defrost the HR cell in winter.

The defrosting methods:

- **Bypass** (factory setting) — The HR cell is bypassed from the supply air side. The supply and extract air fans function normally, and the ventilation balance remains constant during defrosting. This prevents drafts or air breaks caused by differences in pressure. This setting is recommended for tightly sealed buildings that may experience negative pressure. When the bypass function is used, the ventilation unit's post-heating resistor and optional additional heating resistor must be activated.
- **Supply fan stop** — The supply air fan stops during defrosting. This causes temporary negative pressure in the apartment. This setting is recommended if the indoor air temperature is exceptionally low (<15°C) or if you want to reduce the use of the heating resistors during defrosting.

! IMPORTANT:

It is usually not necessary to adjust the defrosting settings. The factory settings suffice in normal household use. In exceptional situations, for example, in indoor pool facilities or when a great amount of ice accumulates in the exhaust air duct, the settings could be adjusted.

To set the defrosting method:

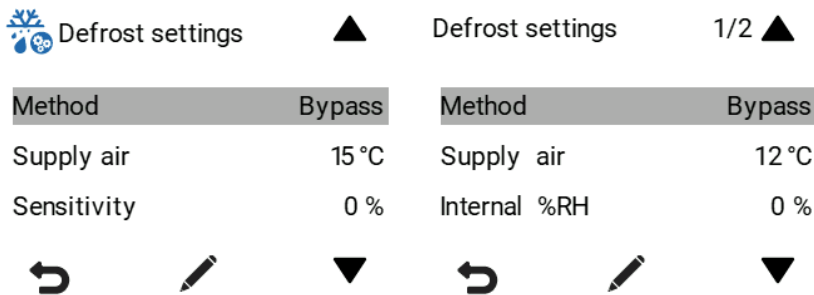
1. Select **Settings**: 

2. Open **Expert settings** and select **Defrost settings**.

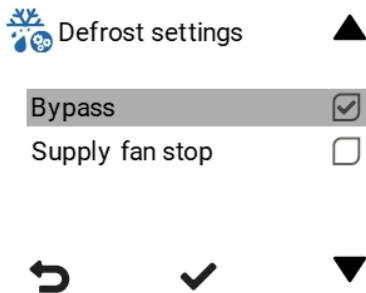


3. Select **Method**.

Figure 3. CFI/MV



4. Select a defrosting method.



NOTE: If post-heating and additional heating is not used, the fan is automatically stopped for defrosting and no other defrosting method can be selected.

3.8.5.2. Supply air temperature during defrosting

The supply air temperature setting determines the supply air temperature during bypass defrosting. The temperature range is 12–20°C (factory setting: 15°C). In severe frost, if the heating resistor's capacity is not enough, the ventilation unit does not allow the supply air temperature to drop below 12°C.

1. Open **Expert settings** and select **Defrost settings**.



2. Select **Supply air**.
Figure 4. CFi/MV

 Defrost settings	▲	Defrost settings	1/2 ▲
Method	Bypass	Method	Bypass
Supply air	15 °C	Supply air	12 °C
Sensitivity	0 %	Internal %RH	0 %
 	▼	 	▼

3. Set the target supply air temperature during defrosting. The temperature range is +12°C – +20°C. The factory setting is 15°C.

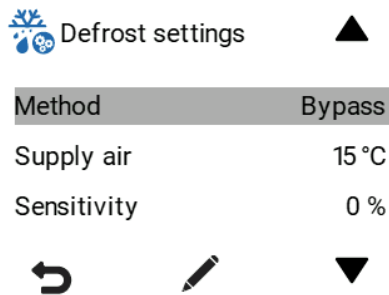
3.8.5.3. Defrost sensitivity (CFi)

The defrost sensitivity setting determines how easily the ventilation unit starts to defrost the HR cell.

1. Open **Expert settings** and select **Defrost settings**.



2. Select **Sensitivity**.



3. If necessary, adjust the defrost sensitivity. The factory setting is 0, which is usually sufficient in normal use.

3.8.5.4. Adjusting the defrost humidity level (MV)

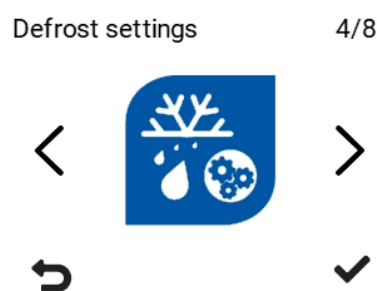
The humidity of indoor air affects the freezing of the HR cell significantly. The unit is optimised to operate in normal household conditions. If the unit is used in exceptional humidity conditions, for example in indoor pool facilities, the humidity level set for defrosting may have to be adjusted. The humidity percentage should be higher than zero in exceptional conditions and lower than zero in dry conditions.

! IMPORTANT:

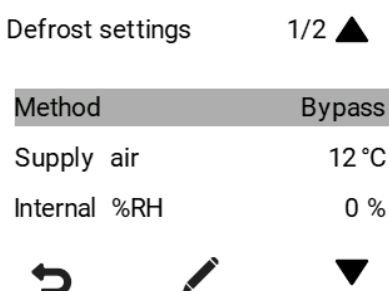
Do not change the relative humidity of indoor air without consulting an HVAC expert.

To set the relative humidity of indoor air:

1. Open **Expert settings** and select **Defrost settings**.



2. Select **Internal %RH**.



- Adjust the humidity level. The factory setting is 0%, which is a normal indoor air humidity level. The humidity range is -50% – +50% RH.

The defrost humidity level has now been adjusted.

3.8.5.5. Outdoor air temperature (MV)

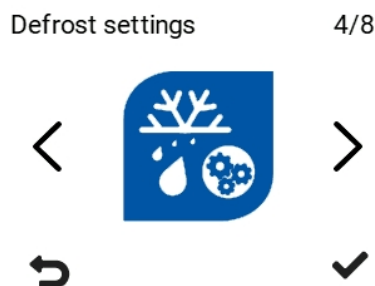
The outdoor air temperature setting influences the unit's operation in very cold conditions (aluminium cell: below -20°C; plastic cell: below -5°C). The setting is optimised according to the cell type and installation conditions.

! IMPORTANT:

Do not change the outdoor air temperature without consulting an HVAC expert.

To set the outdoor air temperature:

- Open **Expert settings** and select **Defrost settings**.



- Select **Outdoor air**.
- Set the outdoor air temperature. The setting range is 0–100%. The factory setting depends on the ventilation unit type.
- Select **OK**. ✓

The outdoor air temperature has now been set.

3.8.6. Save settings

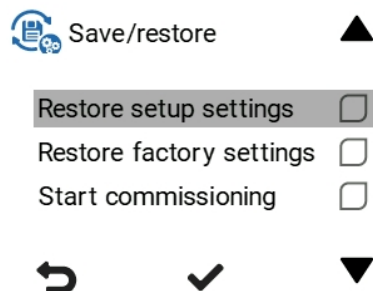
- Select **Settings**: 

- Open **Expert settings** and select **Save and restore settings**.

Save and restore settings 5/8



- Select the desired function:



- **Restore setup settings** — Restores the ventilation unit settings configured during setup.
- **Restore factory settings** — Restores the ventilation unit's original settings. All changes made by the user are reset.
- **Start commissioning** — Launches the ventilation unit's setup process.

3.8.7. Control settings

The ventilation unit's sensors measure the air temperature, relative humidity and carbon dioxide content.

This section describes how to adjust the following sensor settings:

- Adjustment of the temperature of air flowing into the apartment
- Adjustment of humidity control

Humidity control refers to a function the ventilation unit uses to control ventilation based on the relative humidity of room air. If more than one humidity sensor is in use, the fan speed is adjusted according to the highest level.

- Humidity limit

The humidity limit refers to the air's relative humidity level. If this level is exceeded, the ventilation unit boosts ventilation.

- Carbon dioxide limit

The carbon dioxide limit refers to the air's carbon dioxide content. When the limit value is exceeded, the ventilation unit boosts ventilation. If more than one carbon dioxide sensor is in use, the fan speed is adjusted according to the highest level. The carbon dioxide sensor is an optional accessory.

NOTE:

The indicative maximum carbon dioxide content of good room air is 900 ppm.

Other limits related to carbon dioxide content:

- 1200 ppm — Limit of acceptable indoor air
- 700 ppm — Limit of excellent indoor air

Source: Classification of Indoor Environment 2018

3.8.7.1. Setting the supply air temperature control method

The supply air temperature control method defines how the ventilation unit controls the temperature of inflowing air. The control method determines how the unit reacts to changes in indoor and outdoor air temperature. The temperature setting (+5...+25°C, recommendation: +18°C) is set in the ventilation mode (At Home, Away, Boost, Custom) settings.

To change the supply air temperature control method:

1. Select **Settings:** 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10



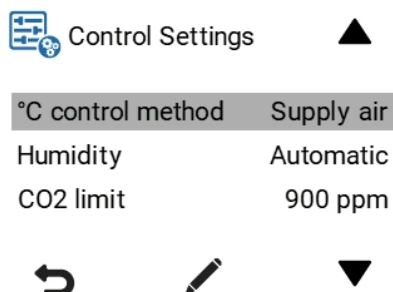
3. Select **OK:** 
4. Select **Control settings** with the arrow buttons.

Control settings 6/8



5. Select **OK**: ✓

The **Control settings** screen opens:



6. Use the arrow buttons to select the control method of the supply air temperature.

The options are **Supply air**, **Extract air**, and **Cooling**.

- **Supply air** (factory setting) — The supply air temperature is maintained at the set target value (+5...+25°C). The unit uses automatic heat recovery and, if necessary, post-heating to maintain the target temperature.
 - If the air temperature is lower than the target supply air temperature after the air has passed through the HR cell, the ventilation unit activates the post-heating resistor.
 - If heating the supply air is not necessary, the HR cell is bypassed.
- **Extract air** — The supply air temperature is adjusted automatically according to the temperature of air extracted from indoors. The unit reacts to changes in indoor air temperature and maintains balanced indoor air conditions. If the apartment is warm, the supply air is cooled down automatically and vice versa.
 - If the extract air temperature is lower than the supply air temperature set for the active ventilation mode, the unit increases the supply air temperature (max. 10°C). If necessary, the unit uses the post-heating resistor.
 - If the extract air temperature is higher than the supply air temperature set for the active ventilation mode, the unit reduces the supply air temperature (max. 10°C). If heating the supply air is not necessary, the HR cell is bypassed.
- **Cooling** — This control method is based on the extract air temperature. In addition, ventilation is boosted when necessary to keep the supply air temperature close to the target temperature, especially in warm weather. This control method is ideal for situations, in which the indoor temperature rises easily.

NOTE:

If the outdoor air is warmer than the indoor air, the ventilation unit is not able to cool the supply air. If the outdoor air is colder than the indoor air, it is recommended partial bypass be activated to maintain the target supply air temperature.

7. Select **OK**: ✓

The temperature control method has now been set.

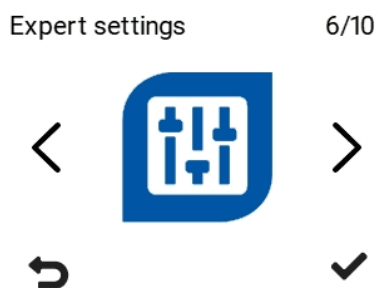
3.8.7.2. Humidity control and setting the humidity limit

The humidity control method determines how the ventilation unit reacts to the humidity level of indoor air. The unit's integrated humidity sensor is located in the extract air chamber. The unit can also be connected to an external humidity sensor (optional) installed in the apartment.

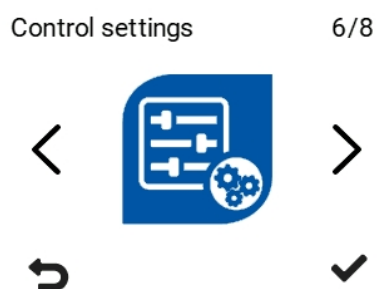
The humidity control boosts the fan speed to the speed set for the **Boost** mode. If the **Boost** mode is activated, the speed can be increased to the maximum fan speed. In any case, the humidity control does not reduce the fan speed below the level set for the active ventilation mode (e.g. **At Home**, **Away**). The humidity control can be disabled from the ventilation mode settings.

! NOTE: The humidity control does not increase the humidity level in the apartment but removes excess humidity more efficiently.

1. Select **Settings**: 
2. Select **Expert settings** with the arrow buttons.

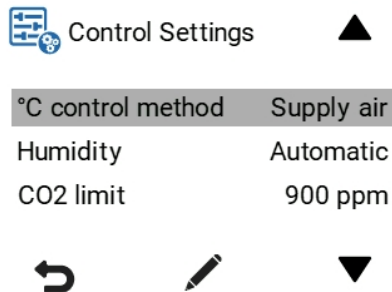


3. Select **OK**: ✓
4. Select **Control settings** with the arrow buttons.

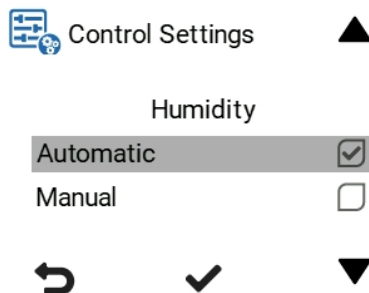


5. Select **OK**: ✓

The **Control settings** screen opens:



6. Select **Humidity** and use the arrow buttons to set the humidity control adjustment method.



The options are:

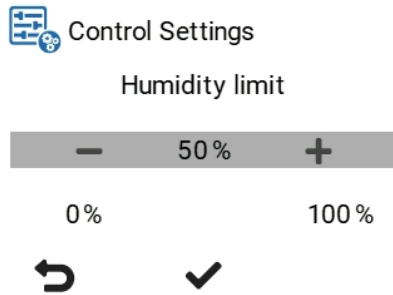
- **Automatic** (factory setting) — Use the **Automatic** setting for regular apartment ventilation. If automatic humidity control is in use, the unit determines the normal humidity level and records it. The unit strives to restore this humidity level after a shower, for example. The normal humidity level changes automatically seasonally. If you are using the **Automatic** setting, you do not have to manually adjust the humidity limit.

! NOTE: Automatic humidity control is selected during unit setup. It takes 3–10 hours to determine the relative humidity level. The humidity level cannot be adjusted during this period.

- **Manual** — Use the **Manual** setting in places, where the humidity level of indoor air stays constant around the year. For example, this setting is recommended for use in indoor swimming pools. You can set the humidity level between 1–99%RH. The unit strives to maintain this humidity level. If you are using the **Manual** setting, remember to set the humidity limit.

If **Manual** is selected, the control panel displays the humidity level settings automatically.

7. Use the **Plus** and **Minus** buttons to set the humidity level as a percentage.



8. Select **OK**: ✓

The humidity control adjustment method has now been set.

3.8.7.3. Setting the carbon dioxide limit

The carbon dioxide limit refers to the air's carbon dioxide content. When the limit value is exceeded, the ventilation unit boosts ventilation. If more than one carbon dioxide sensor is in use, the fan speed is adjusted according to the highest level. The carbon dioxide sensor is an optional accessory.

! NOTE:

The indicative maximum carbon dioxide content of good room air is 900 ppm.

Other limits related to carbon dioxide content:

- 1200 ppm — Limit of acceptable indoor air
- 700 ppm — Limit of excellent indoor air

Source: Classification of Indoor Environment 2018

The ventilation unit adjusts the fan speed automatically according to the carbon dioxide content of indoor air. The carbon dioxide level can be set between 500 and 2000 ppm, and the factory setting is 800 ppm. This level is suitable for regular household use and ensures a good indoor air quality.

You can set the level higher if, for example, there is a large number of people in the apartment simultaneously and ventilation seems to activate too easily. A lower carbon dioxide level improves the indoor air quality further, as the system reacts quickly to minor increases in carbon dioxide content and activates the ventilation.

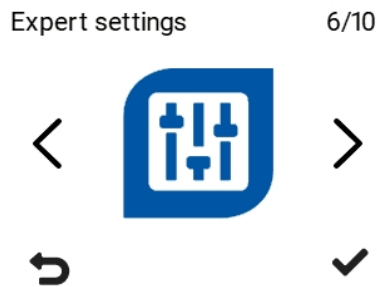
The ventilation unit is equipped with a carbon dioxide sensor, which is located in the unit's extract air chamber. A separate carbon dioxide sensor (optional) can also be installed in the apartment.

The carbon dioxide control boosts the fan speed to the speed set for the Boost mode. If the **Boost** mode is activated, the fan speed can be increased to the maximum fan speed. In any case, the

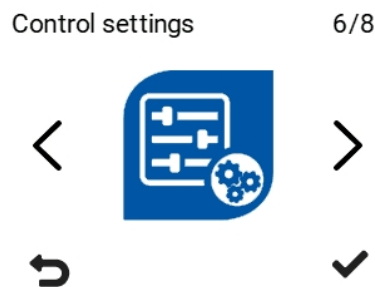
carbon dioxide control does not reduce the fan speed below the level set for the active ventilation mode (e.g. **At Home**, **Away**).

To set the carbon dioxide limit:

1. Select **Settings**: 
2. Select **Expert settings** with the arrow buttons.

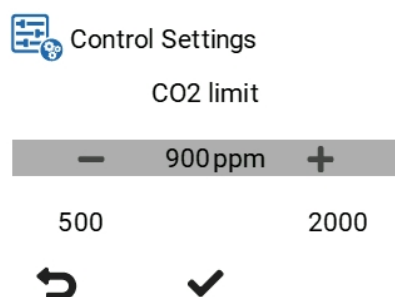


3. Select **OK**: 
4. Select **Control settings** with the arrow buttons.



5. Select **OK**: 

The **Control settings** screen opens:



6. Use the **Plus** and **Minus** buttons to set the carbon dioxide limit in parts per million (ppm). You can set the limit between 500 and 2000 ppm. The factory setting is 900 ppm.
7. Select **OK**: 

The carbon dioxide limit has now been set.

3.8.7.4. Activating the constant air flow limiter (CFi)

By default, the constant air flow limiter is deactivated. When the function is activated, it monitors the ventilation unit's operation automatically and the unit runs as usual with the constant air flow function enabled. If ventilation performance becomes weaker due to, for example, a blocked filter, the constant air flow limiter stops the fan speed from spiking to avoid excessive noise. The limiter

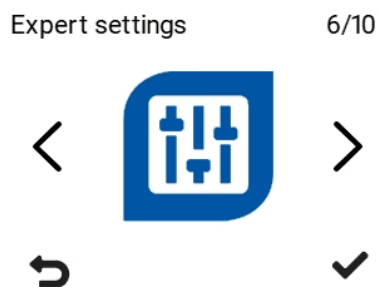
icon in the main view indicates when the function is active: 

When the air flow goes back to normal (e.g. after the blocked filter has been cleaned), the constant air flow limiter is deactivated automatically and the unit continues to adjust the constant air flow normally. The function remains in stand-by mode.

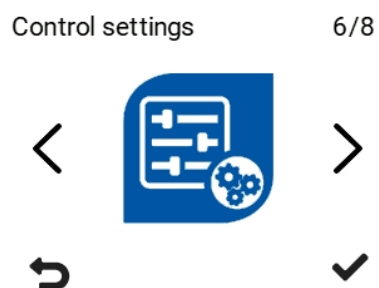
The function is used in locations where the filters are replaced centrally, for example, in apartment blocks.

To enable the constant air flow limiter:

1. Select **Settings:** 
2. Select **Expert settings** with the arrow buttons.

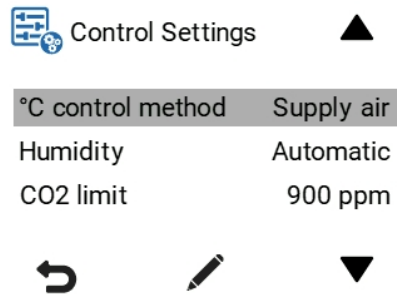


3. Select **OK:** 
4. Select **Control settings** with the arrow buttons.

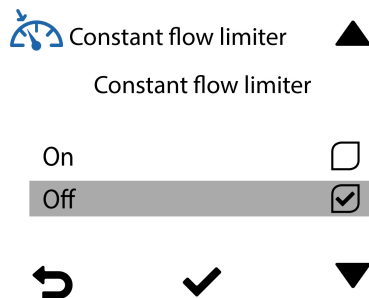


5. Select **OK**: ✓

The **Control settings** screen opens:

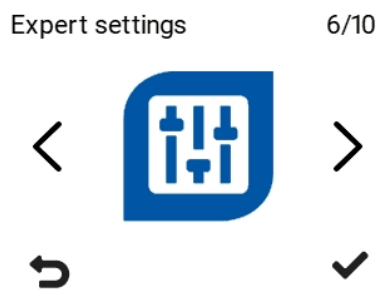


6. Enable or disable the constant air flow limiter.



3.8.8. Bypass settings of the HR cell

1. Select **Settings**: ☰
2. Select **Expert settings** with the arrow buttons.



3. Select **OK**: ✓

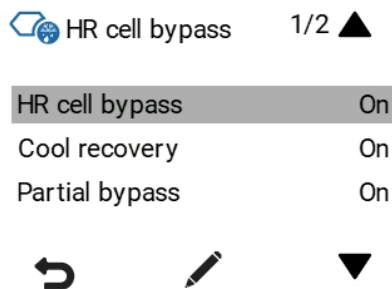
4. Use the arrow buttons to select **HR cell bypass settings**.

HR cell bypass settings 7/8



5. Select **OK**: ✓

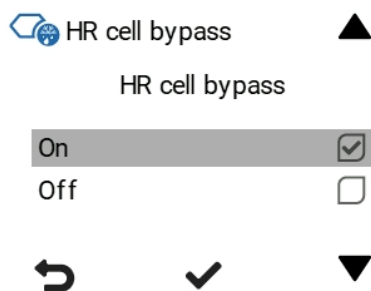
The **HR cell bypass** screen opens:



6. Select with the arrow buttons:

- **Bypass** **On** — Bypass automatics are in use.
- **Bypass** **Off** — Bypass automatics are not in use. The **Heat recovery** mode is active.

7. Select with the arrow buttons:



- **Partial bypass** **On** — Partial bypass is enabled when bypass is activated and the outdoor air temperature exceeds the value set for the heating season.
- **Partial bypass** **Off** — Partial bypass is not in use.
- **Special modes** — Partial bypass is always in use.

! IMPORTANT:

The **Special modes** mode is only used in special modes when the heat load is large. Do not select **Special modes** without consulting an HVAC expert.

3.8.9. Heating settings

! IMPORTANT:

Do not change the heating settings without consulting an HVAC expert.

1. Select **Settings:** 
2. Select **Expert settings** with the arrow buttons.

Expert settings 6/10



3. Select **OK:** 
4. Select **Heating settings** with the arrow buttons:

Heating settings 8/8



5. Select **OK:** 

The **Heating settings** screen opens:

 Heating settings 1/2 ▲

Additional heating method Off
Post-heating method Not in use



6. Select the heating method with the arrow buttons:

 Heating settings 1/2 ▲

Post-heating method

Liquid radiator ☐
Electric resistor ☐



The options are:

- Electric resistor
- Liquid radiator
- Not in use

7. Select the additional heating method with the arrow buttons:

 Heating settings ▲

Additional heating method

On ☐
Off ☒



The options are:

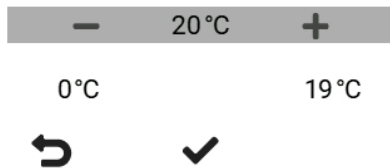
- Electric resistor
- Liquid radiator
- Not in use

8. Select the heating season setting using the **Plus** and **Minus** buttons. You can adjust the temperature between 0°C and +19°C. The factory setting is +12°C. The outdoor temperature triggers the seasonal heating mode. When the outdoor temperature is lower than the set value, post-heating is used where needed to heat the supply air. The bypass is always 100% in heat recovery.



Heating settings

Heating season



NOTE: When the outdoor air temperature is above the reference value:

- Seasonal heating is not in use.
- The supply air heater is not in use.
- Bypass and partial bypass are in use.

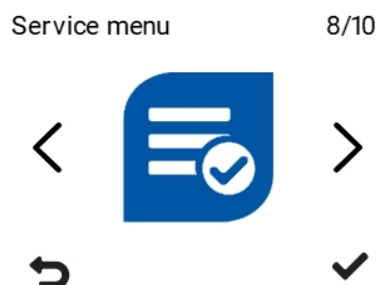
3.9. Service menu

This section describes the **Service menu** of the MyVallox Touch panel.

3.9.1. Unit information

Unit information is a list of all the ventilation unit properties and different ventilation events.

1. Select **Settings**:
2. Select **Service menu** with the arrow buttons.



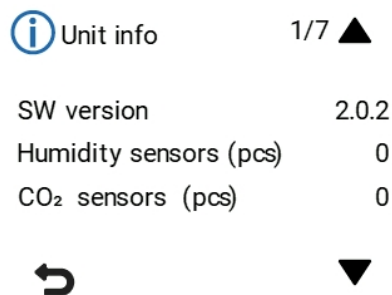
3. Select **OK**:

4. Select **Unit information** with the arrow buttons:



5. Select **OK**: ✓

The **Unit information** screen opens:



6. The information appears on six different screens. Use the arrow buttons to move between the screens. The information is:

- **Software version** — Software version of the ventilation unit
- **Humidity sensors (pcs)** — Number of humidity sensors connected to the unit
- **CO2 sensors (pcs)** — Number of carbon dioxide sensors connected to the unit
- **Type** — Type code of the ventilation unit
- **Model** — Model of the ventilation unit
- **Serial number** — Serial number of the ventilation unit
- **Operating time** — The operating time of the ventilation unit in days and in years
- **Latest power cut** — Time elapsed since the latest power cut
- **Handedness** — Ventilation unit handedness. The ventilation unit is either right-handed (R) or left-handed (L).
- **IP address** — The IP address of the ventilation unit
- **Gateway** — The gateway of the ventilation unit
- **Mask** — The mask of the ventilation unit
- **Extract air** — The temperature of extract air.
- **Exhaust air** — The temperature of exhaust air.
- **Outdoor air** — The temperature of outdoor air.
- **Supply air** — The temperature of supply air.
- **Supply air temperature** — The temperature of air from the HR cell.
- **External sensor** — External sensor temperature.
- **Cloud connection status**:

- **Not connected** — The ventilation unit has not been connected to the MyVallox Cloud service.
- **Connected** — The ventilation unit is connected to the MyVallox Cloud service.
- **Connection error** — Failed to connect to the MyVallox Cloud service.
- **Bad Gateway error** — Invalid gateway address.
- **DNS error** — The DNS name service is not working.
- **Certificate error** — Invalid ventilation unit certificate. Please contact the service centre.
- **Handshake error** — Failed to connect to the MyVallox Cloud service.
- **Internal error** — Internal error in the ventilation unit. Please contact the service centre.
- **Old software version** — The ventilation unit uses an old software version.
- **Software update in progress** — Updating the ventilation unit software.
- **MyVallox Cloud UUID** — The unique ID of the ventilation unit in the MyVallox Cloud service.

TIP:

If the ventilation unit fails to connect to MyVallox Cloud, check that:

- The ventilation unit is connected directly to a router.
- The router assigns the ventilation unit a private IP address (starting with 192, 172 or 10).
- You can access <http://cloud.vallox.com> on a computer browser via LAN.
- The router input ports 80 and 443 are available.

7. Select **Back**: 

3.9.2. Error log

To view and acknowledge errors:

1. Select **Settings**: 
2. Select **Service menu** with the arrow buttons.

Service menu 8/10



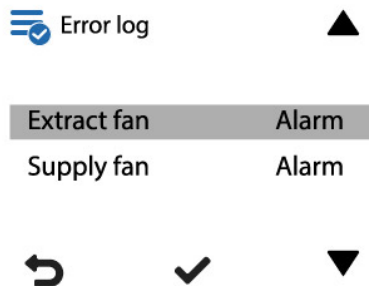
3. Select **OK**: 

4. Select **Error log** with the arrow buttons:



5. Select **OK**: ✓

The **Error log** screen displaying a list of errors opens:

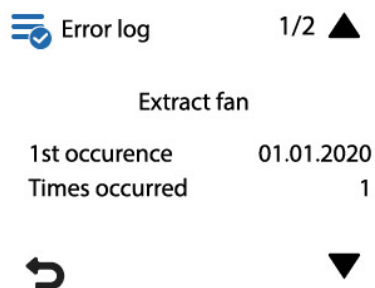


6. Use the arrow buttons to browse the error messages in the error log. To acknowledge error messages in the error log:

a. Select an error message.

- b. Select **OK**: ✓

A detailed error message screen opens:



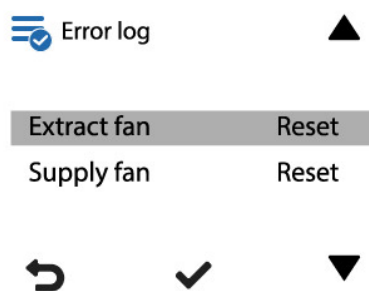
The detailed error message contains the following information:

- **Error name** — The top row in the detailed error notification describes the error.
- **1st occurrence** — Time when the error occurred for the first time.
- **Times occurred** — The number of times the error has occurred.

- Latest occurrence — Time when the error last occurred.
- Severity — Seriousness of the error.
- Status — Error alarm status. The status options are:
 - Acknowledged — Error acknowledged. No active alarm for the error.
 - Alarm — The alarm is active until the error is acknowledged.

c. To acknowledge the error message, select **OK**: ✓

The error will be displayed in the error list as acknowledged:



d. To acknowledge more error messages, select **Back**: ↶

7. Select **Back**: ↶

3.9.3. Fan test

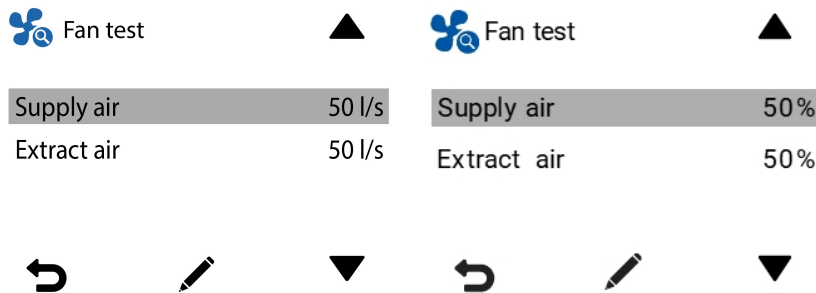
Carry out the fan test to easily check the operation of the ventilation unit's fans.

1. Go to the Maintenance menu and select **Fan test**.



The Fan test menu opens:

Figure 5. CFi/MV



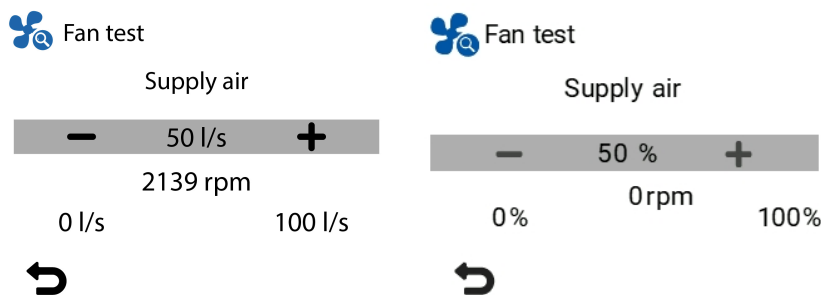
2. Select **Supply air**.

3. **CFi**: Use the **Plus** and **Minus** buttons to adjust the fan's airflow (l/s or m³/h).

MV: Use the **Plus** and **Minus** buttons to set the supply air volume as a percentage of the maximum output.

You can hear when the fan speed changes according to the value set. The fan's rotational speed is shown in the **rpm** field.

Figure 6. CFi/MV



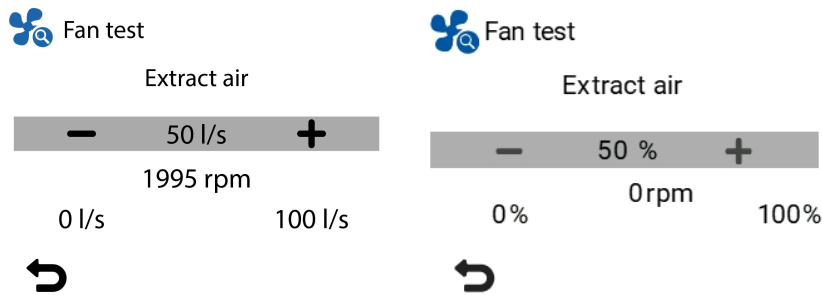
4. Select **Extract air**.

5. **CFi**: Use the **Plus** and **Minus** buttons to adjust the fan's airflow (l/s or m³/h).

MV: Use the **Plus** and **Minus** buttons to set the extract air volume as a percentage of the maximum output.

You can hear when the fan speed changes according to the value set. The fan's rotational speed is shown in the **rpm** field.

Figure 7. CFi/MV



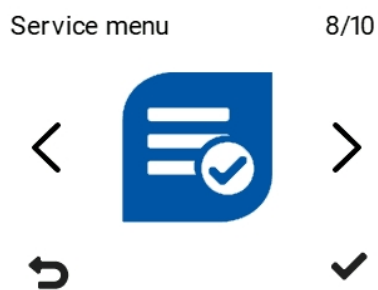
6. Select **Back**:

The fan test has been completed.

3.9.4. Heater test

To test the operation of the ventilation unit's heaters:

1. Select **Settings**:
2. Select **Service menu** with the arrow buttons.

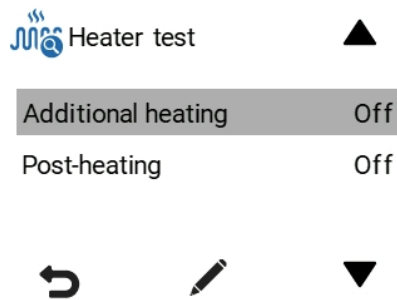


3. Select **OK**:
4. Select **Heater test** with the arrow buttons:



5. Select **OK**:

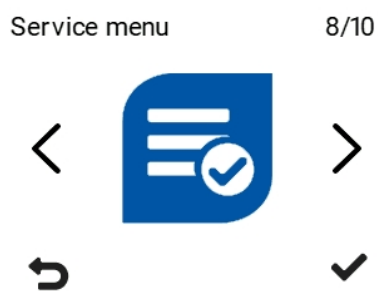
The **Heater test** screen opens:



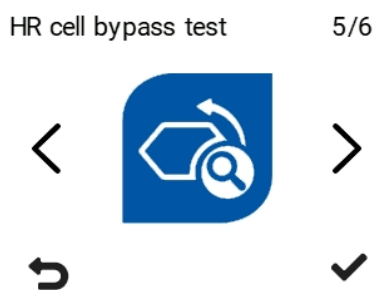
3.9.5. HR cell bypass test

To test the operation of the HR cell's bypass damper:

1. Select **Settings:** 
2. Select **Service menu** with the arrow buttons.

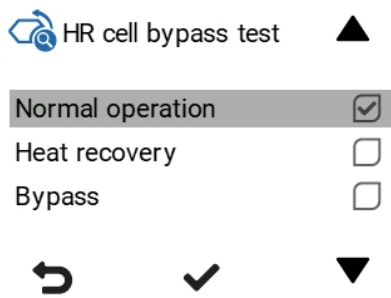


3. Select **OK:** 
4. Select **HR cell bypass test** with the arrow buttons:



5. Select **OK:** 

The **Position of the bypass damper** screen opens:



6. Use the arrow buttons to select the damper position. The options are:

- **Normal operation** — The HR cell bypass test is disabled, the bypass damper moves normally.
- **Heat recovery** — The damper is closed (“winter position”) and air flows through the HR cell.
- **Bypass** — The damper is open (“summer position”) and air passes by the HR cell.

7. Open the ventilation unit door to make sure the damper moves to the right position.

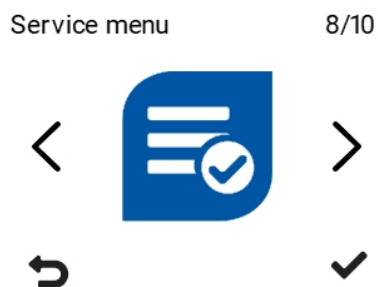
8. Select **Back**: 

The HR cell bypass test has been completed.

3.9.6. HR cell defrost

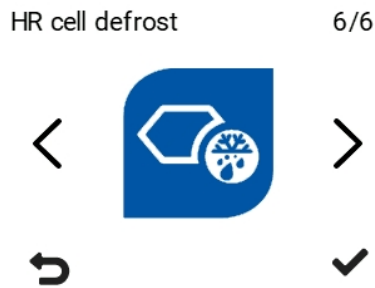
To defrost the HR cell manually:

1. Select **Settings**: 
2. Select **Service menu** with the arrow buttons.



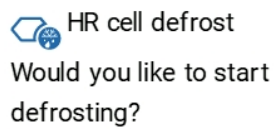
3. Select **OK**: 

4. Use the arrow buttons to select **HR cell defrost**.



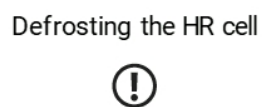
5. Select **OK**: ✓

The unit asks you to confirm the task:



6. Select **OK**: ✓

Defrosting begins:



The defrosting process takes approximately 15–45 minutes, and when complete, the ventilation unit returns to normal operation.

7. Select **Back**: ↶

3.10. Turning the unit off

! IMPORTANT:

It is recommended ventilation be kept on constantly.

! NOTE:

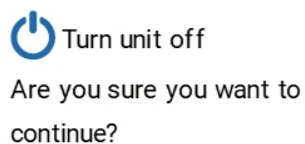
The ventilation unit cannot be turned off when the external input has been set to **Emergency stop**.

To turn the ventilation unit off e.g. for maintenance:

1. Select **Turn unit off** with the arrow buttons.



2. Select **OK** ✓.
3. The unit asks you to confirm the task:



4. Select **OK** ✓.

The ventilation unit has now been turned off.

TIP: To restart the ventilation unit, touch the touch screen.

4. USER LEVEL DIAGRAMS

The following charts specify the user rights of three different user levels.

Figure 8. Limited user level

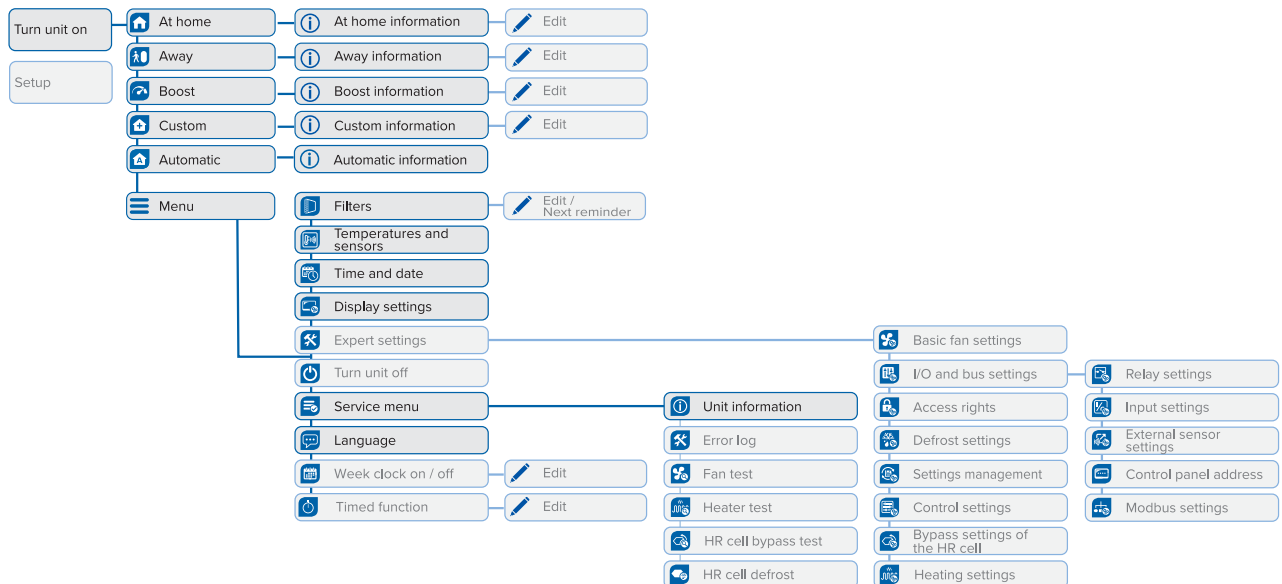


Figure 9. Normal user level

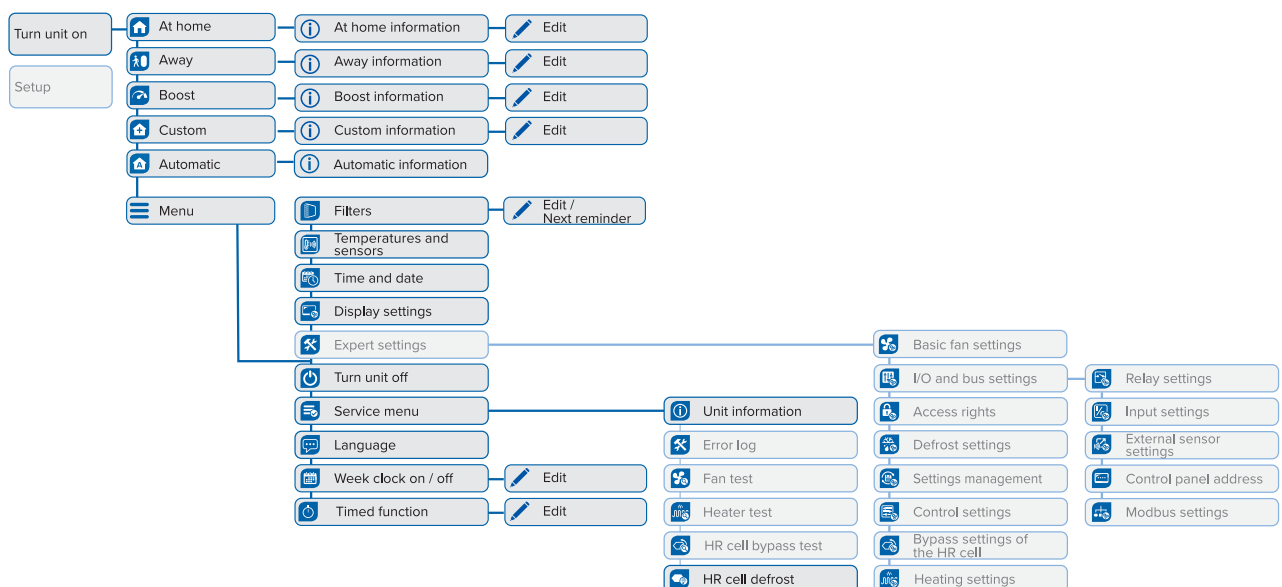
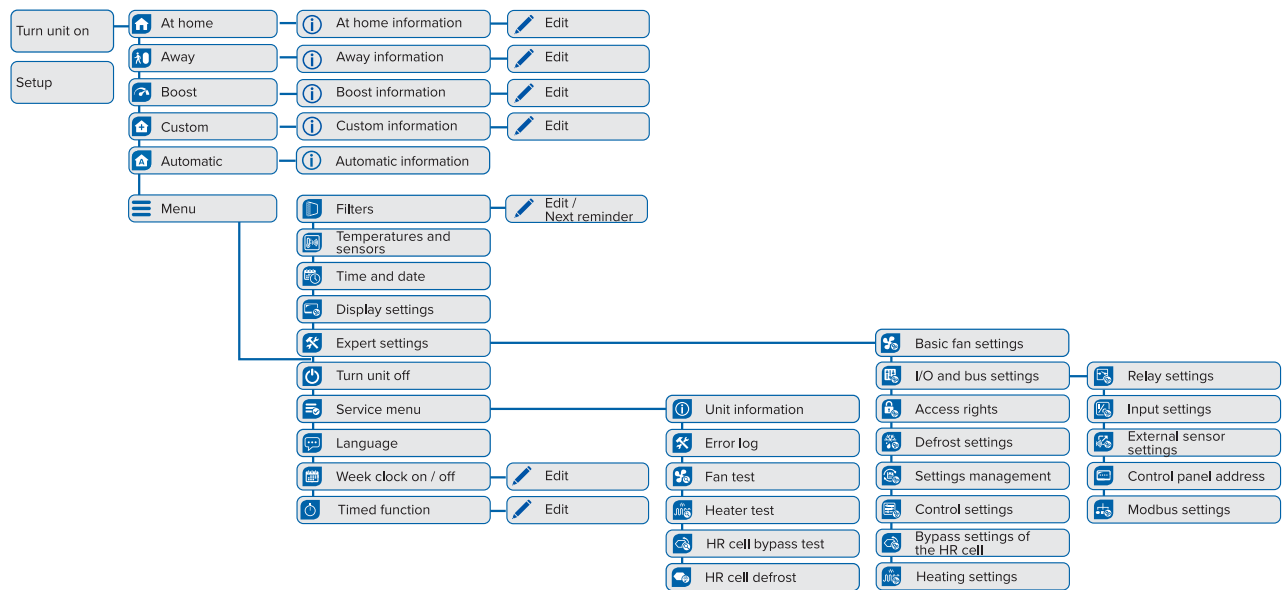


Figure 10. Extensive user level



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