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MyVALLOX
51K CFi

User Manual

Contents

1. Introduction

Thank you for choosing a Vallox product. For optimal performance, read the instructions carefully before installation, operation, or maintenance.

1.1. General Safety Instructions

Read these instructions before operating the ventilation unit. Safe and appropriate handling of the unit requires knowledge of the basic safety regulations, and of the intended use of the ventilation unit.

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.

1.1.1. 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.

1.2. Intended use

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

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

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

1.3. Warnings

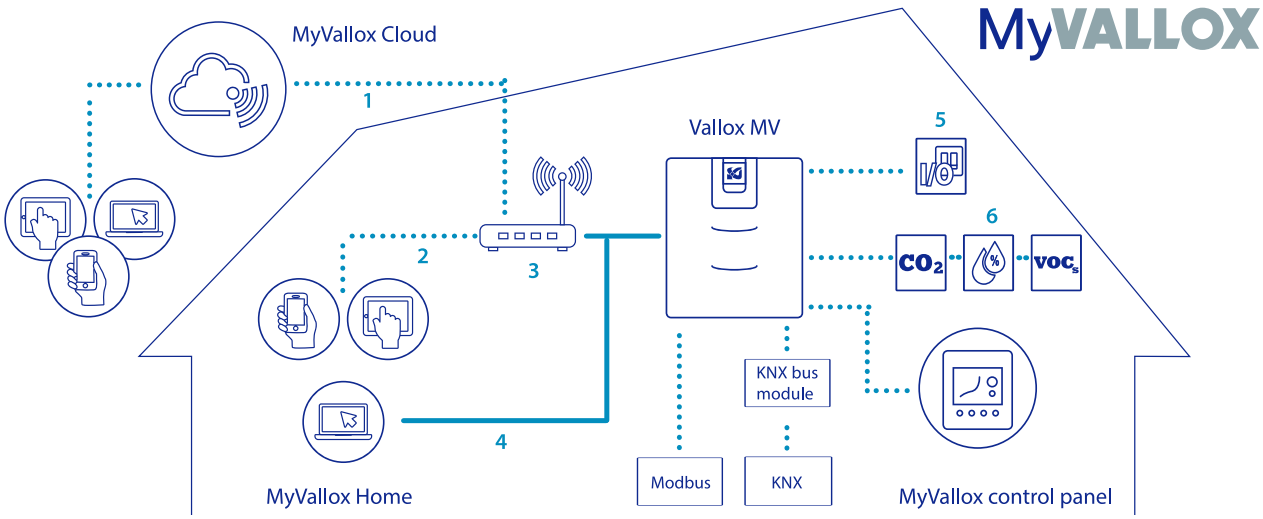
WARNING: The unit is not intended for use by children under 8 or by persons with reduced sensory, physical or mental capabilities, or whose lack of knowledge and experience do not ensure safe operation of the unit. Such persons can use the unit under supervision, or by following the instructions of someone who is responsible for their safety. Children must be supervised and not be allowed to play with the device.

- The ventilation unit is very heavy.
- The door of the ventilation unit is heavy.

- Water must at all times be kept out of the electrical system.

- The timer function of the Custom mode can only be turned off when the external fireplace switch has a timer.
- The fan settings must be completed by a qualified specialist in accordance with the ventilation plan. If you edit the settings, ensure that they comply with the ventilation plan.
- If the heating resistor needs to be removed from the unit in connection with maintenance measures, ensure that the relay is not hot before pulling it out of the unit.
- Connect the cables so that they do not touch the resistor.

1.4. System description



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

1.5. Warranty and liability

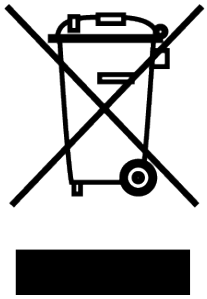
The guarantee and liability exclude damage resulting from:

- 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

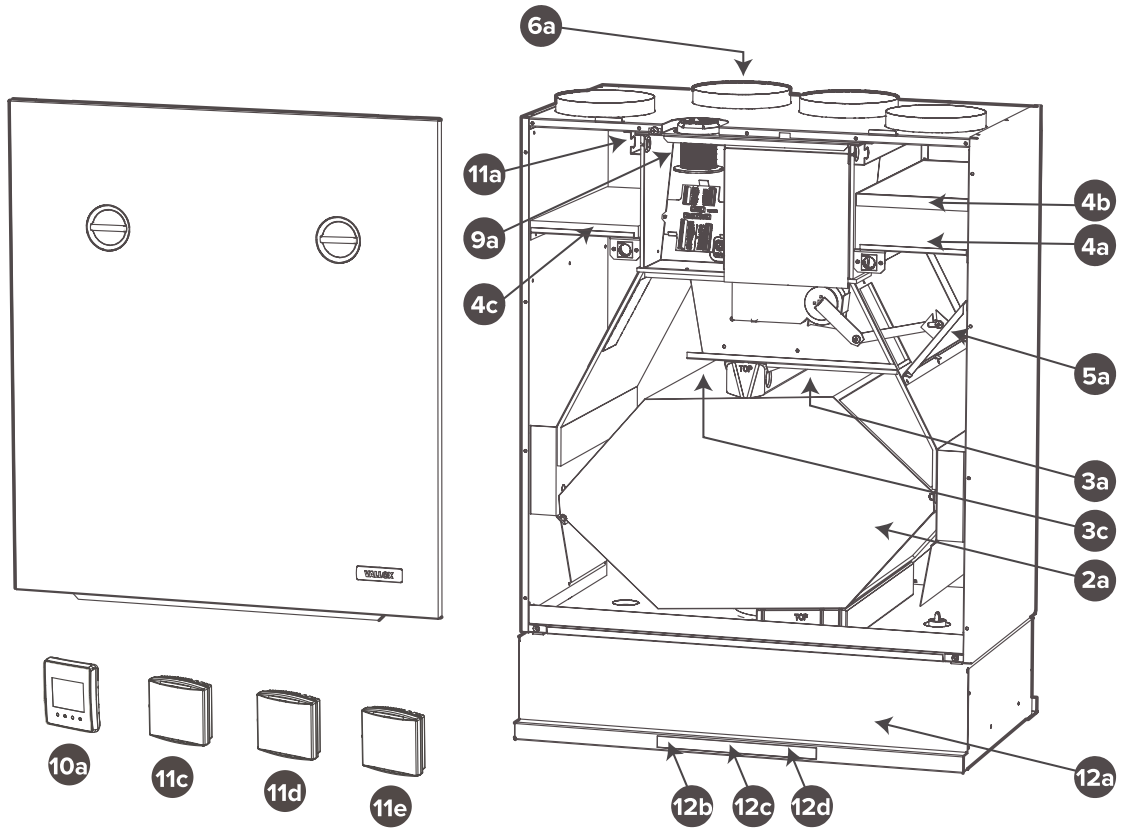
1.6. Disposal of the ventilation unit

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.



1.7. Main parts



No.	Part	No.	Part
2a	Heat recovery cell	10a	Control panel
3a	Extract air fan	11a	Internal carbon dioxide and humidity sensor
3c	Supply air fan	11c	Carbon dioxide sensor (optional)
4a	Fine filter for supply air	11d	Humidity sensor (optional)
4b	Coarse filter for supply air	11e	VOC sensor (optional)
4c	Coarse filter for extract air	12a	Cooker hood
5a	Bypass damper of the HR cell	12b	Damper button
6a	Post-heating resistor	12c	Fan speed adjustment
9a	Ceiling bushing for electric wires	12d	Light switch

2. Installation

This chapter describes the installation of the Vallox ventilation unit.

Only a qualified technician is allowed to install and set up the unit. Electrical installation and connection work must be carried out by an electrician in line with local regulations.

Check the package contents before installation and make sure that all parts are in good condition. Store the product in a dry place (indoors).

Check the dimensions and weight of the product from the technical specification of the unit.

The ventilation unit must be installed in a dry place where the temperature does not drop below +10°C. When installed without its enclosure, the unit must be placed in a place where its running noise is not bothersome; for example, a storage room, utility room or a false ceiling.

If the relative humidity of the ambient air is high and the outdoor temperature is very low, moisture may condense on the unit surface. The possibility of condensation should always be taken into account when selecting the furnishings and fixtures to be placed close to the unit.

Avoid mounting the ventilation unit to a hollow partition wall or a bedroom wall, or prevent the conduction of noise through the wall.

NOTE:
The whole length of the outdoor air duct to the unit and the exhaust air duct from the unit must be insulated using closed-cell insulation. Closed-cell insulation is needed for the duct component that runs through warm spaces.

NOTE:
The ventilation unit must be installed so that it can be connected to a LAN cable. The LAN cable must be able to be connected to a router.

2.1. Mounting on the wall

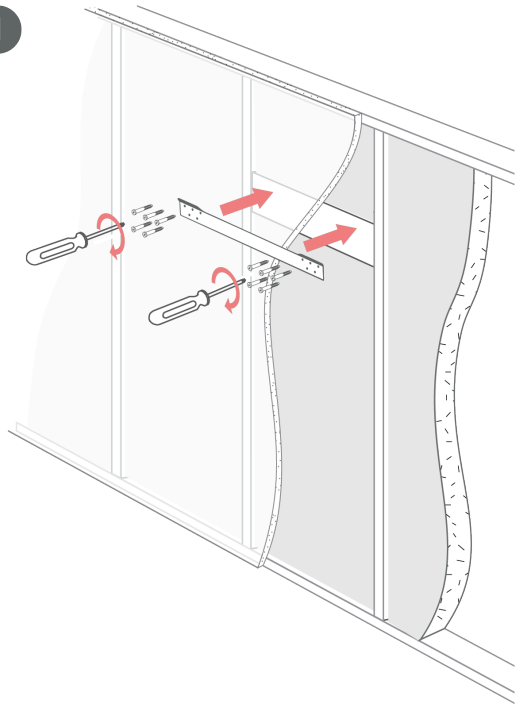
NOTE:
Avoid mounting the ventilation unit to a hollow partition wall or a bedroom wall, or prevent the conduction of noise through the wall.
The minimum distance between the unit roof and the ceiling surface is 30 mm. Please note that the unit sits 10 mm higher than the final height when mounted by using a wall bracket.

NOTE: Make sure there is at least 330 mm of free space in front of the unit for easy maintenance.

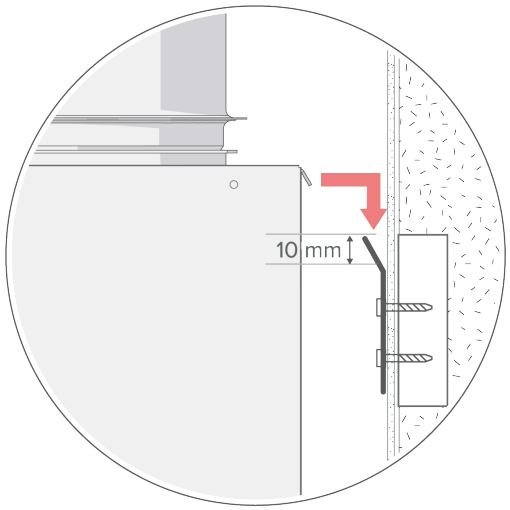
NOTE: Install the ventilation unit in a place where the temperature does not drop below +10°C.

Mount the ventilation unit on the wall with a wall mounting plate, as shown in the figures below. Make sure that the unit is horizontally level after mounting.

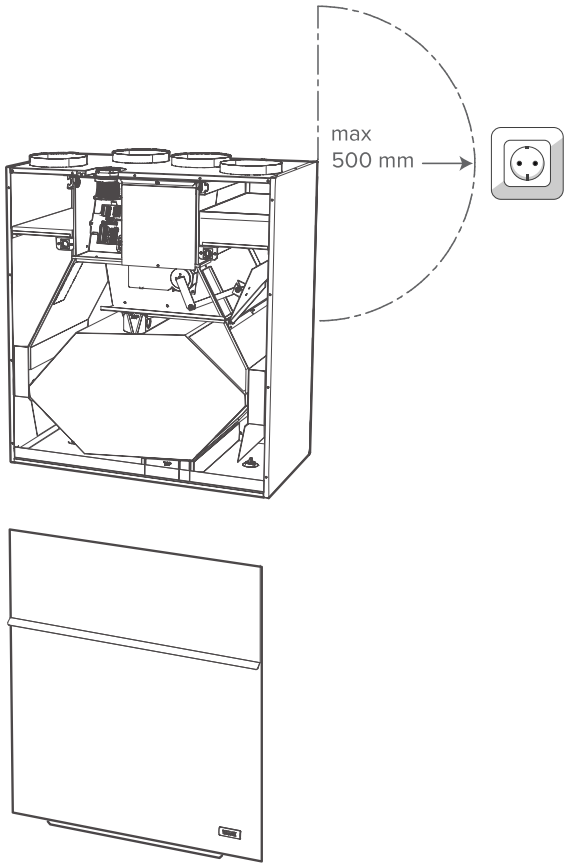
1



2



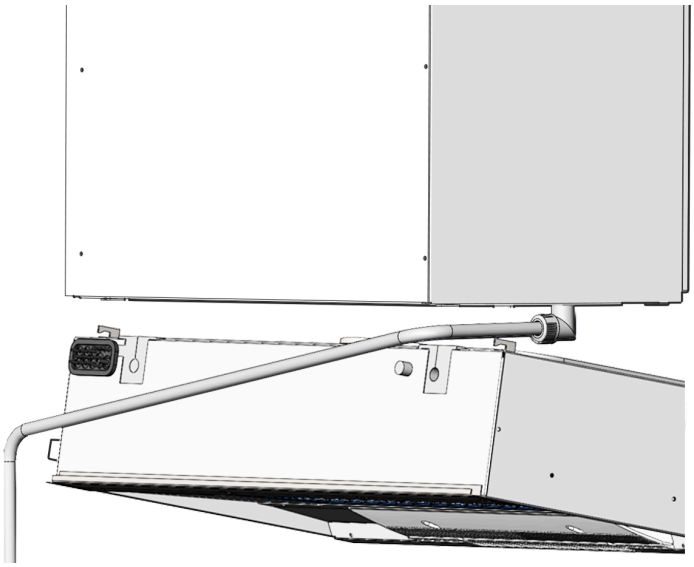
NOTE: The socket may be no further than 500 mm from the unit's right-hand top edge.



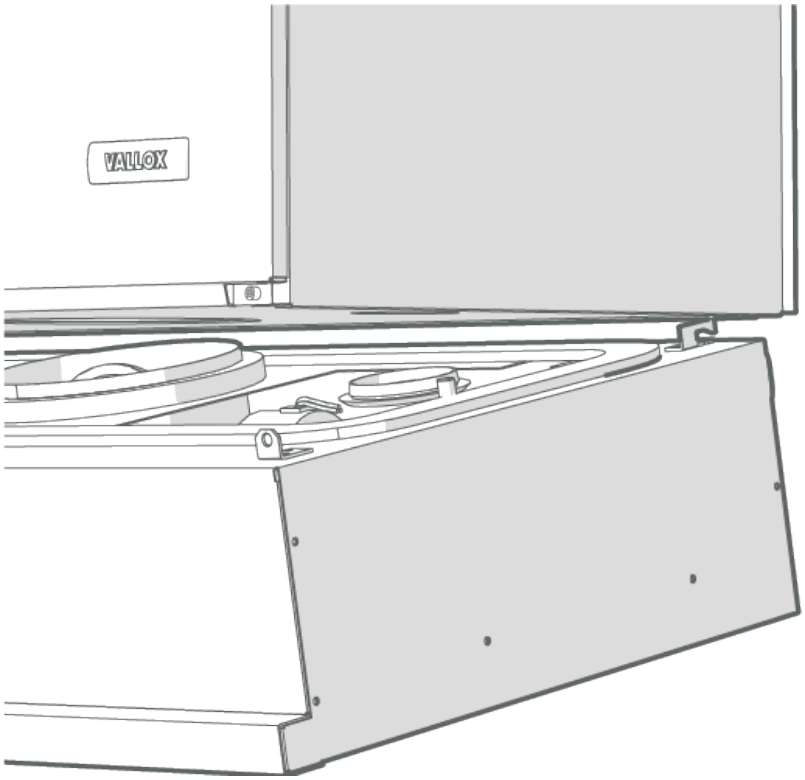
2.2. Installation of the Vallox Captura Cooker hood

The Vallox Captura cooker hood is installed on the bottom of MyVallox 51K CFi.

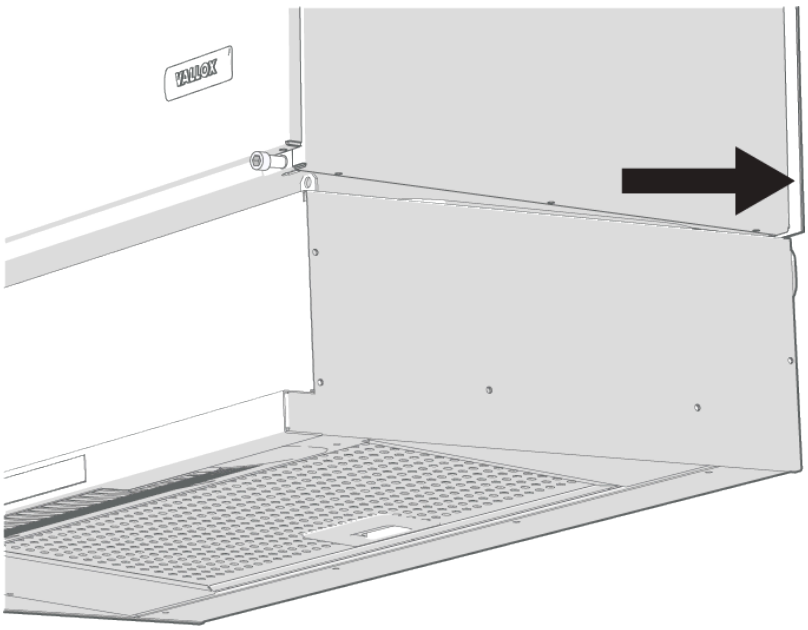
1. Remove the plug from the feedthrough seal of the condensing water tube of the cooker hood.



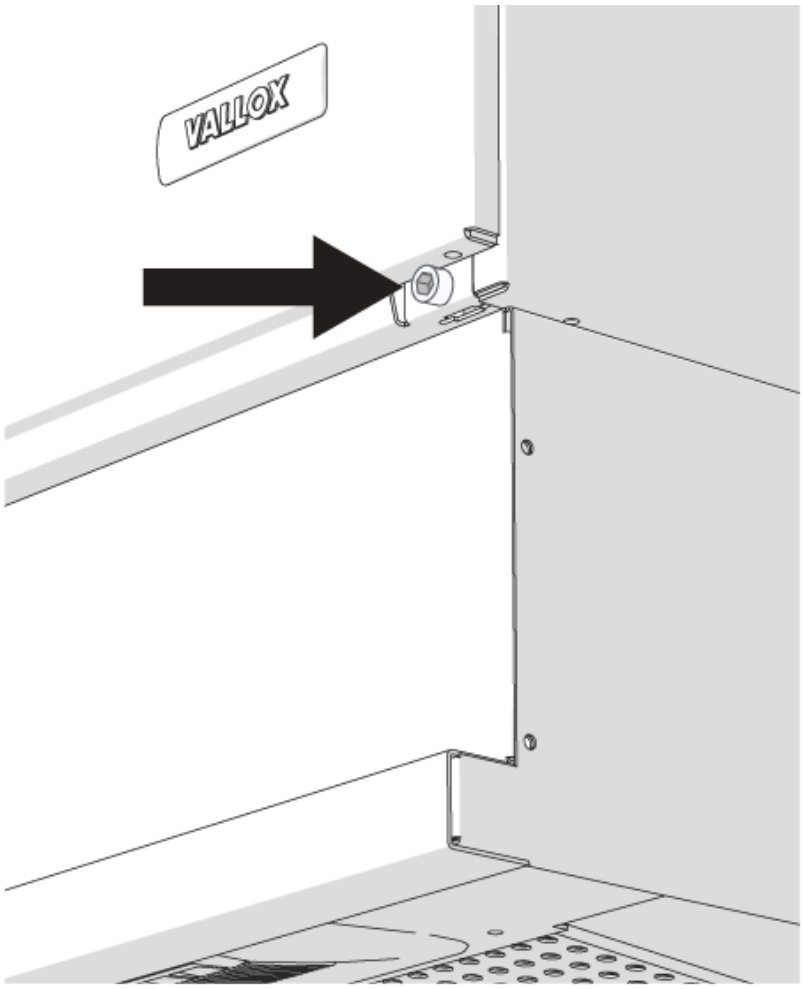
2. Lift the cooker hood and fit the hooks at the rear of the cooker hood into the holes at the bottom of the ventilation unit. Push in place.



3. Ensure that the feedthrough seal of the condensing water tube sits firmly around the tube.
4. Lift the front of the cooker hood to fit the mountings into the penetrations in the bottom of the ventilation unit.

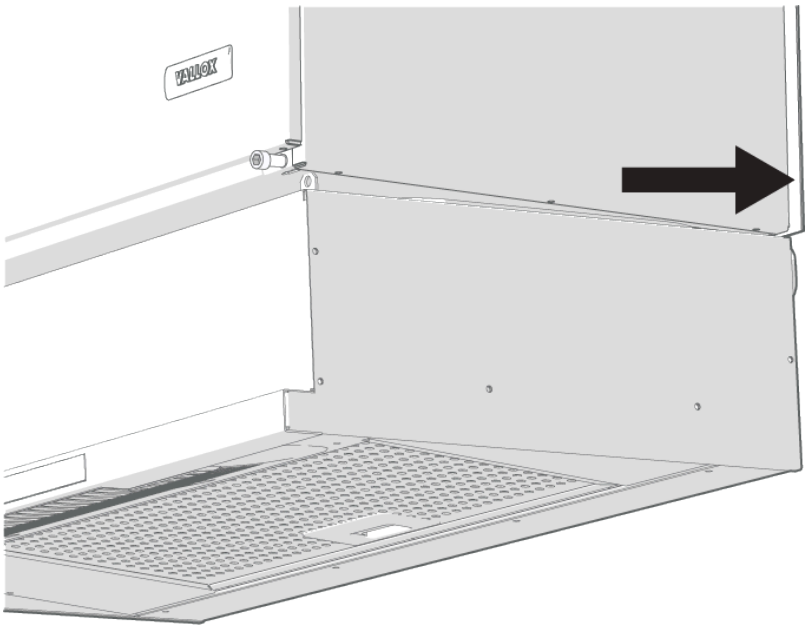


5. Fasten the M5 hexagon screws (2) through the mountings.

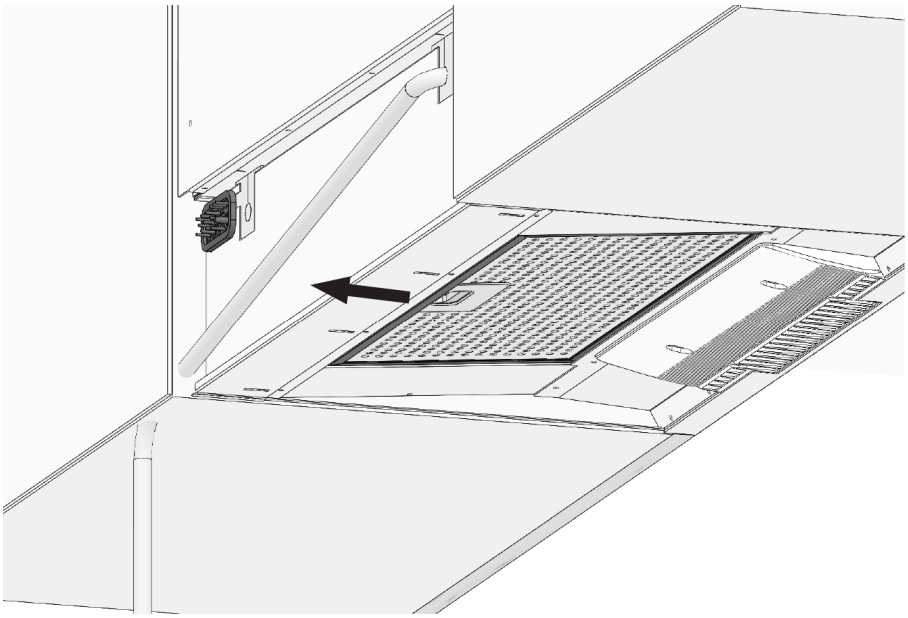


6. Lead the power cord and the control cable up along the cable channel. Wind approx. half a metre of the cables behind the cooker hood so that it can be removed for maintenance

purposes where required.



7. Move the metal cover backwards so that it covers the opening between the cooker hood and the wall.



IMPORTANT:
The minimum clearance between the bottom edge of the cooker hood and an electric stove is 426 mm.

2.3. Measuring and adjusting the air flows of the cooker hood

Standard ventilation

The volume flow rate of the air inside the cooker hood is measured with the damper closed and, where required, adjusted based on the static pressure loss and the performance scheme of the cooker hood.

- The static pressure loss is measured from the hole in the damper using the measuring tube found in the accessory bag (see Figure).
- Determine the volume flow rate from the performance scheme based on the measured pressure and the number of open holes in the damper.

The rate of air flow passing through the Vallox Captura cooker hood when the damper is open can be determined as follows:

- Sum up the air flow rates of the building's extract air valves and subtract the result from the extract air flow rate of the ventilation unit's Boost mode.

Adjustment

- Cover the required number of holes in the damper with the magnetic strip that is delivered with the cooker hood.

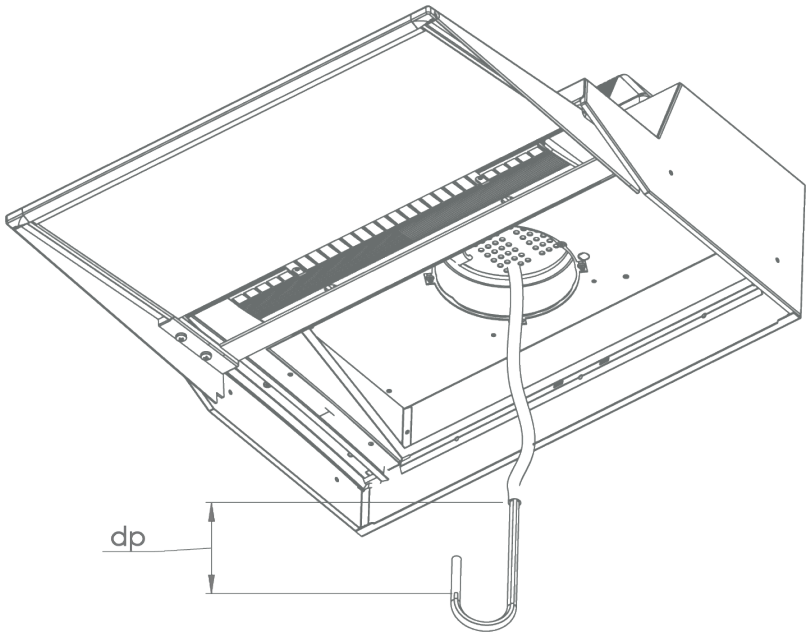
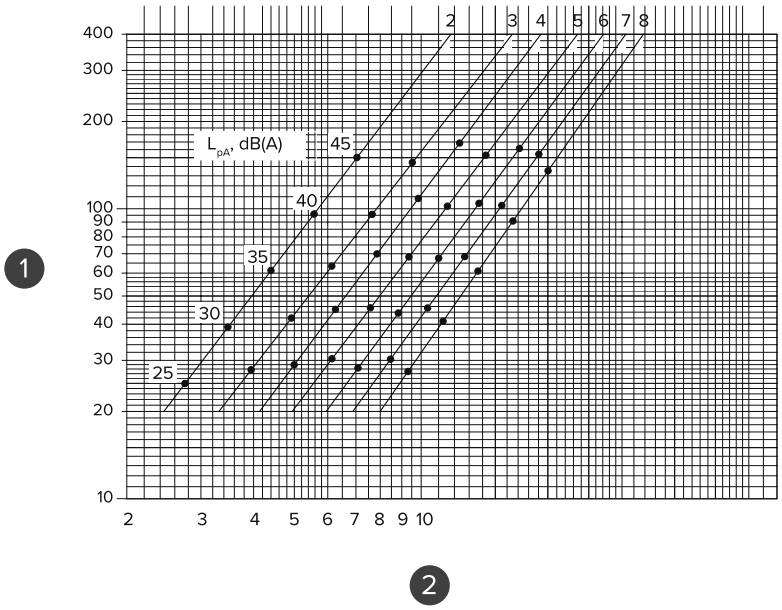


Table 1. Standard ventilation of the cooker hood (settings 2-8) - damper in the closed position

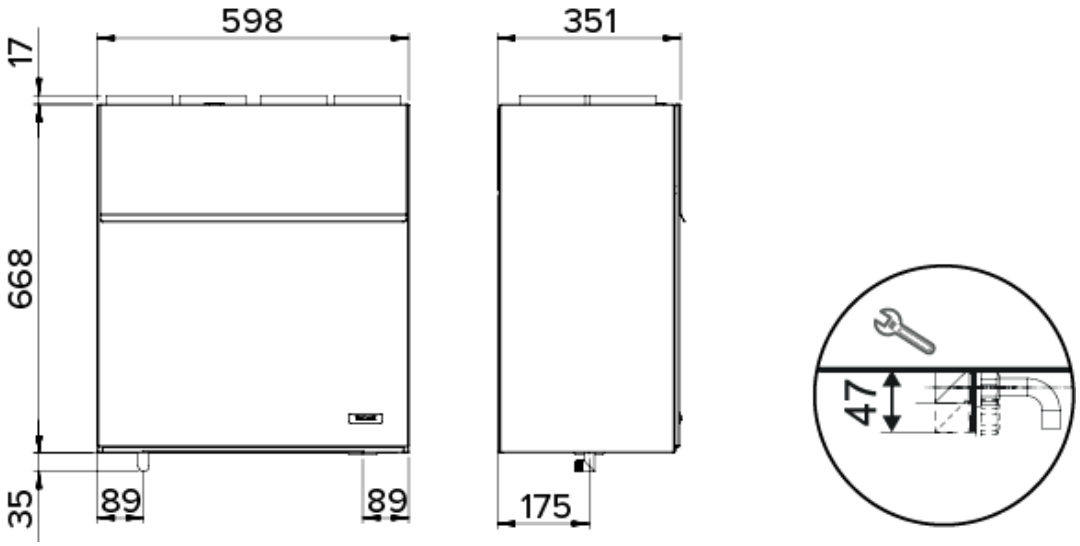
Adjustment position	Holes of the damper open
2	2
3	3
4	4
5	5
6	6
7	7
8	8



1. Static pressure, Pa
2. Air flow dm^3/s

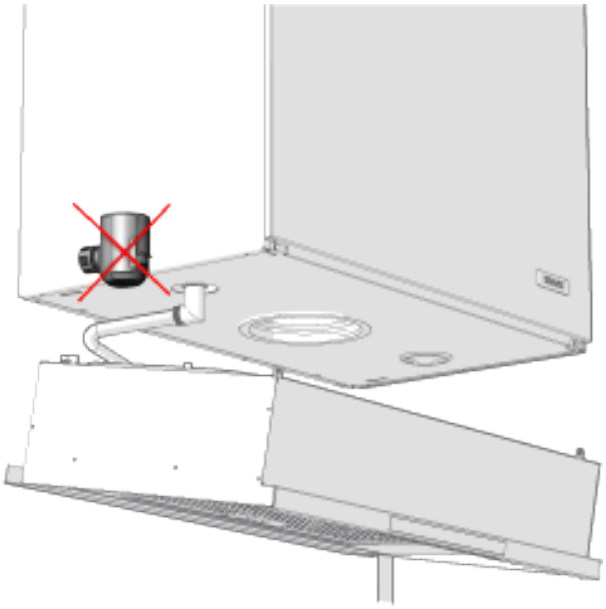
2.4. Removal of condensing water

NOTE:
The Vallox Silent Klick siphon package is delivered with the MyVallox 51K CFi unit. Installation instructions for the siphon are enclosed with the packaging, and can also be found online at https://www.vallox.com. When the alternative siphon installation method is used, the ring seal and the locking part must be moved to the pipe connection part that is mounted on the wall.



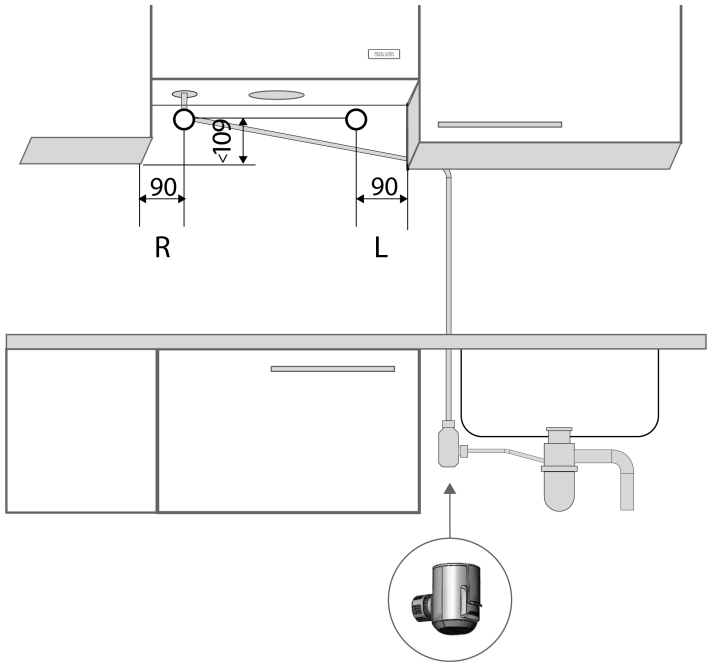
In MyVallox 51K CFi, an elbow is mounted in the bottom pool between the unit and the cooker hood. A condensing water tube is led from the elbow e.g. into the siphon of the sink or to the floor drain. The siphon must not be installed inside the cooker hood. Instead, it must be installed in the condensing water tube so as to enable maintenance measures. There are approx. 2 mm wide holes at the rear of the bottom of the MyVallox 51K CFi ventilation unit marking the position where the condensing water tube must be installed.

1. Install the elbow at the bottom of the ventilation unit without the siphon. Install the siphon in the condensing water tube before the drain or odour trap. The Vallox Silent Klick siphon helps prevent noise disturbance caused by the removal of condensing water.

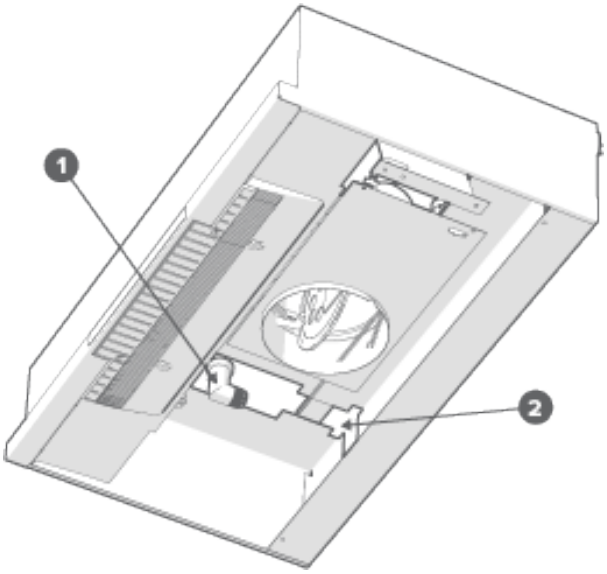


2. The condensing water tube must be installed either directly backwards from the cooker hood

through the wall, if there is a sewer connection behind the wall, or to the odour trap of the sink.



3. The condensing water pipe must be placed at an angle so that it always points downwards.



1. Elbow
2. Exit hole for the condensing water outlet

3. 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 the Vallox Captura cooker hood connected to the unit
- Through a remote monitoring or building automation system that uses voltage signals or Modbus messages.

Update the ventilation unit software by connecting it to the cloud service. See Connecting the ventilation unit to the cloud service.

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.

Each user can use the week clock to adjust the ventilation to fit their lifestyle and schedule.

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.

3.1. Vallox Captura Cooker hood

The Vallox 51K MV ventilation unit is controlled by using the Vallox Captura cooker hood that is connected to the unit. The cooker hood is designed to be used above the cooker top, as a general extraction valve in the kitchen, and as a ventilation system control panel.

The front panel of the cooker hood has four buttons.

In normal circumstances, the damper must be closed (the signal light is off), which boosts the extract

air flow from other premises. The damper must be open (the signal light is turned on) **when the user wants to increase the extract air flow from the cooker hood e.g.**

- when the cooker top or the oven is used for cooking
- when the load in the kitchen is exceptional e.g. due to the use of strong detergents or the presence of a large number of people.

	**Position of the damper**	The damper is opened by pressing the damper button (signal light turns on). The damper is closed (signal light turns off) by pressing the damper button or automatically after one hour (without a timer or 45-120 min when programmed).
	**Cooker hood light**	Turn the light on or off by pressing the light switch. The brightness of the light can be adjusted.
	**Ventilation modes**	Select the ventilation mode by pressing the fan speed button repeatedly until the signal light indicates the desired mode:
	**Away mode**	Use this ventilation mode when the apartment is unoccupied, e.g. during a trip or other long absence.
	**At home mode**	Use this mode when the dwelling is occupied.
	**Boost mode**	Use this mode to enhance ventilation, e.g. when there are more people than usual in the apartment.
	**Selection button**	The selection button is roughly 2 cm to the left from the light switch.

⚠ CAUTION:

- Neglecting the cleaning of the grease filter can cause a fire hazard.
- The outer surfaces of the hood can become hot when the cooker or the oven is turned on.
- Flaming is forbidden underneath the cooker hood.
- Always follow the instructions provided on adjusting the efficiency of ventilation.
- Enable a sufficient supply air flow into the room if the cooker hood and non-electric devices are used simultaneously.

NOTE: The unit reminds the user of the need to change the filters with the red signal light of the Vallox Captura cooker hood. To set off the filter reminder, close the damper and then open-close-open-close. Press at a less than one second interval.

Guard function

The cooker hood has a guard function that is activated when the temperature of the cooker hood exceeds +60 °C or after a sudden increase in temperature (> 8 °C/min). In such a case, all signal lights of the cooker hood and the LED light will flash, the fans of the ventilation unit will stop, and the damper of the cooker hood will close. If this kind of alarm is noticed before fire damage, it can be acknowledged by pressing any of the cooker hood buttons.

3.1.1. Brightness of the light

To adjust the brightness of the light:

1. Turn on the light, close the damper, and set the ventilation to the Away mode.
2. Press the selection button for roughly 3 seconds until the setting mode signal light starts to flash.
3. Adjust the brightness of the light by pressing the light button until the brightness is adequate.
4. To save the setting, press the selection button for roughly 3 seconds until the setting mode signal light stops to flash.

To read about the other functions of the selection button, go to our website https://www.vallox.com.

3.2. 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.

3.3. Connecting the ventilation unit to a computer

To use a computer as a second controller alongside the MyVallox control panel, connect the computer directly to the Vallox ventilation unit.

Before starting, ensure that you have:

- A computer with a browser that supports Web Sockets data transmission. Supported browsers:
    - Firefox, version 31 or higher.
    - Internet Explorer, version 10 or higher.
    - Opera, version 25 or higher.
    - Chrome, version 31 or higher.
    - Safari, version 7 or higher.

- An internet connection to the Vallox ventilation unit with a network cable (RJ-45).

To use the Vallox ventilation unit through the MyVallox Home user interface:

1. Start the computer.
2. Connect one end of the network cable to the computer's Ethernet port and the other end to the grey Ethernet port of the Vallox ventilation unit.

   NOTE:
   You can also connect the Vallox ventilation unit to a router. In that case, the Vallox ventilation unit can be connected to the MyVallox Cloud service. You can also use a WLAN network by connecting the Vallox ventilation unit to a computer.
3. On the computer, select: Start → My Computer → Network.
4. Please wait until you see a computer icon with the text Vallox and a series of numbers. Double-click on the icon to open the MyVallox Home user interface in your browser. The ventilation unit is now connected to the computer.
   OR

   You can skip steps 3 and 4 and:

   a. Select on the MyVallox control panel Service menu → Unit information → IP address. The MyVallox Home user interface opens in your browser.
   b. Type in the IP address and press Enter

3.4. Registering the ventilation unit in the MyVallox Cloud service

This section explains how to register the Vallox ventilation unit in the MyVallox Cloud service.

When the ventilation unit is connected to the MyVallox 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.

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's LAN port (usually numbered 1,2,3,4). The LAN port must not be bridged, i.e. it must share private IP addresses (addresses that begin with 10.x.x.x, 172.x.x.x or

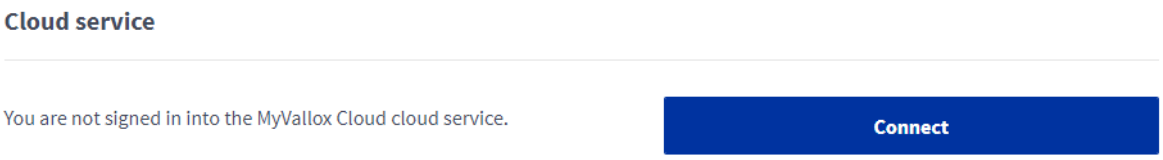
192.168.x.x).

> **TIP:**
> If the ventilation unit rejects the IP address and it is not possible to connect the unit to the intranet, go to the router settings and make sure the DHCP server is on and it is sharing private IP addresses (addresses that begin with 10.x.x.x, 172.x.x.x or 192.168.x.x).

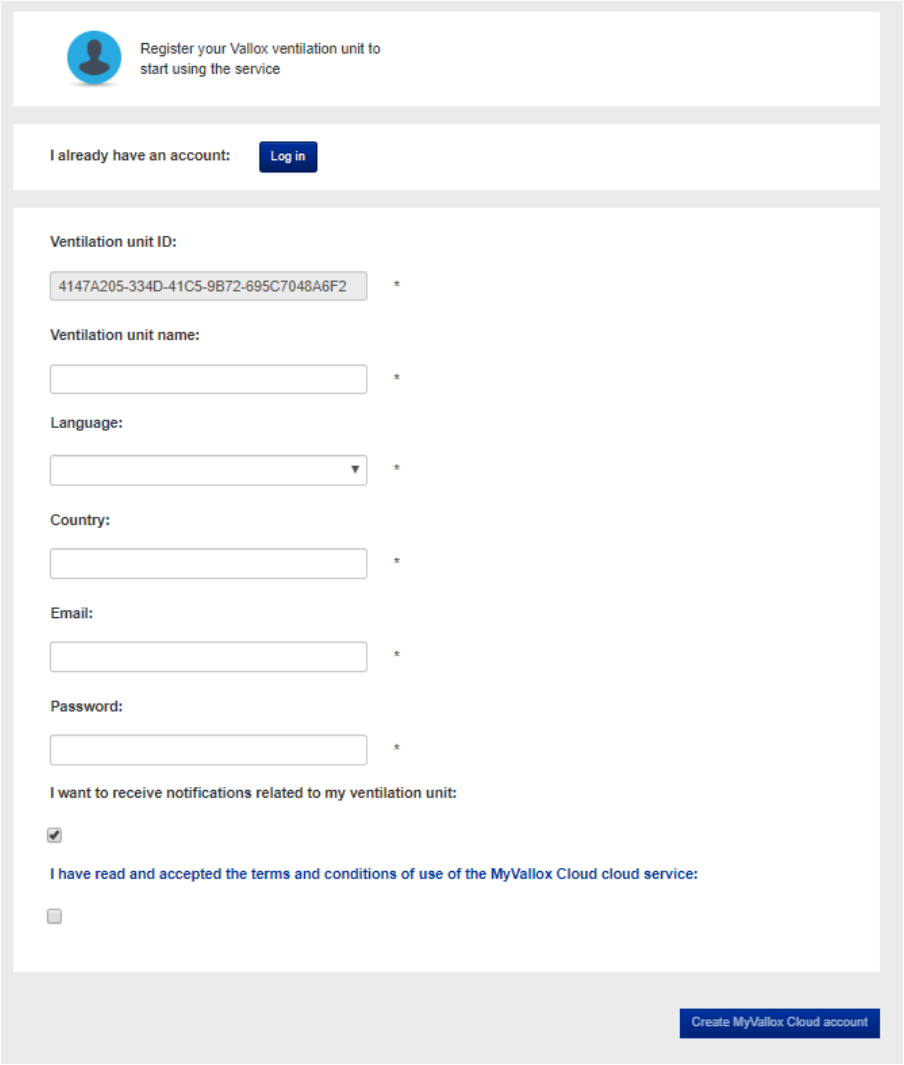
2. Open the computer's network settings by selecting Start → My Computer → Network. You can see a computer icon with the text Vallox and a series of numbers.
   OR

   Select on the MyVallox Control control panel Service menu → Unit information → IP address. Type in the IP address and press Enter.

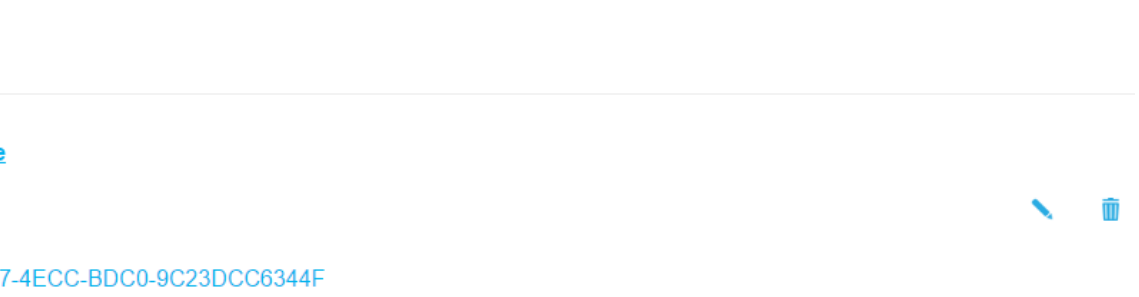
3. Open the MyVallox Home user interface by double-clicking on the icon.
4. Select Special functions.
5. Under Cloud service, you can see whether you are signed in to the MyVallox Cloud service.



6. Select Connect.
7. The registration page of the MyVallox Cloud service opens.
   The Ventilation unit ID, i.e. the unit's unique identifier, is generated automatically in the field.



8. 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.
   - Country — Select the desired country.
   - Email — Enter your email address in this field. The email address is your username.
   - Password — Enter the password of your choice in this field.
9. Select the I want to receive notifications related to my ventilation unit box if you wish to receive notifications related to your ventilation unit.
10. Select I have read and accepted the terms and conditions of use of the MyVallox Cloud cloud service and read the terms and conditions of use of the service. The use of the service requires that the user has accepted the terms and conditions.
11. 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.
12. 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.
13. Once you have signed in, the MyVallox Cloud service will open and the main page of the MyVallox Cloud account will appear in your browser.


My devices
Demo Machine
Last seen:
--
Device ID:
8853824E-C597-4ECC-BDC0-9C23DCC6344F

4. Maintenance

This section describes the maintenance of the Vallox ventilation unit.

⚠ **WARNING:** Always disconnect the power plug before starting maintenance on the ventilation unit. The unit has no safety switch that would switch the power off when the door of the unit is opened.

⚠ **WARNING:**
If you are using water to clean unit parts, be careful that the water does not touch the electrical parts.

IMPORTANT:
If the power cord is damaged, the manufacturer, their service representative or another equally qualified person should replace it to avoid accidents.

NOTE:
Vallox ventilation units are available in two models: a left-handed (L) and a right-handed (R) model. The images below depict the right-handed model.
In the right-handed model, outdoor air enters the unit from the right side of the centre line, as shown in these instructions. In the left-handed model, outdoor air enters the unit from the left. Correspondingly, the placement of the filters, HR cell bypass damper and heating resistor is reversed.

The table below indicates the recommended maintenance intervals for different Vallox ventilation unit parts.

Table 2. Recommended maintenance intervals for Vallox ventilation unit parts

	Year 1				Year 2			
Part	**Spring**	**Summer**	**Autumn**	**Winter**	**Spring**	**Summer**	**Autumn**	**Winter**
Filters	x		x		x		x	
Cell							x	
Fans	x		x		x		x	
Siphon			x				x	
General cleaning and visual check			x				x	

4.1. Filter replacement

⚠ **WARNING:** Always disconnect the power plug before starting maintenance on the ventilation unit. The unit has no safety switch that would switch the power off when the door of the unit is opened.

The Vallox ventilation unit has three filters:

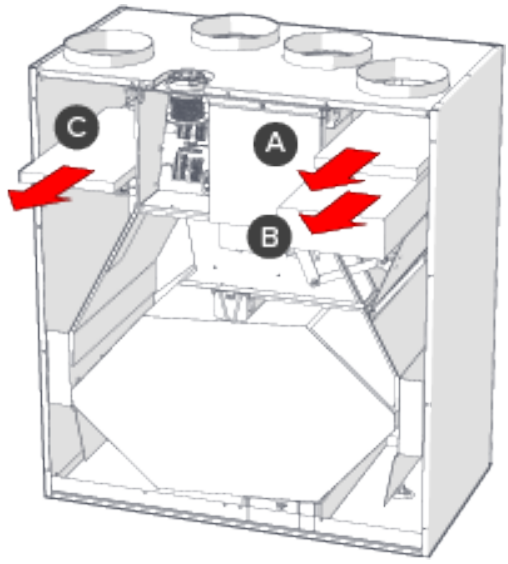
- Coarse filter for supply air filters insects, heavy pollen and other relatively large foreign objects out of the outdoor air.
- Fine filter for supply air filters microscopic pollen and dust particles out of the supply air.
- Coarse filter for extract air filters the extract air and keeps the heat recovery cell clean.

The filter replacement interval depends on the ambient particle concentration. It is recommended that the filters be replaced every spring and autumn, or, at the very least, once a year.

IMPORTANT: If the power cord is damaged, the manufacturer, their service representative or another equally qualified person should replace it to avoid accidents.

NOTE: At least 330 mm of free space must be left in front of the unit to ensure enough room for maintenance.

NOTE:
Using original Vallox filters ensures that the ventilation unit remains in top condition, giving the best results. Selection and ordering of filter packages: valloxsuodattimet.fi/en



To replace the filters:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Open the door of the unit.

   ⚠ **CAUTION:** The door is heavy.

3. Remove the old filters **(A, B, C)** and discard them.
4. Install the new filters **(A, B, C)**.
5. Close the door of the unit.
6. Plug the ventilation unit back into the mains.

The filters have now been replaced.

4.2. Cleaning the heat recovery cell

⚠ **WARNING:** Always disconnect the power plug before starting maintenance on the ventilation unit. The unit has no safety switch that would switch the power off when the door of the unit is opened.

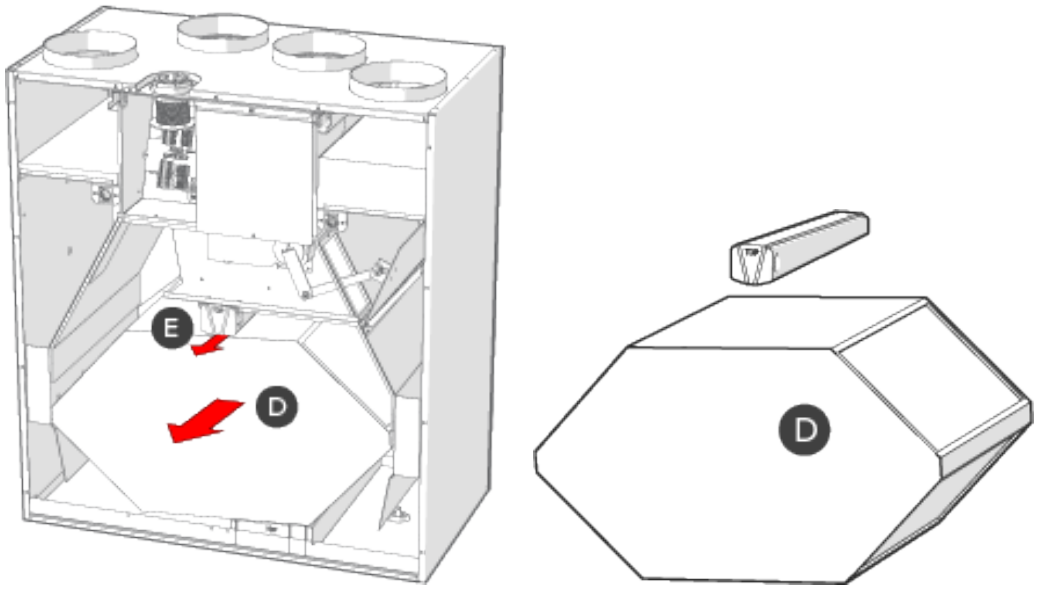
Check that the heat recovery cell is clean roughly once a year, or whenever the filters are being replaced. Clean by washing as required.

Cleaning the heat recovery cell:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Open the door of the ventilation unit by undoing the finger screws and by lifting the door off.

   ⚠ **CAUTION:** The door is heavy.

3. Pull out the black upper support of the cell (**E**) located above the cell.



4. Lift and pull the cell (**D**) out of the unit.

> **IMPORTANT:** Handle the cells carefully! For example, do not lift the cells by the layers. The cell layers are very thin and easily damaged.

5. If the cell is dirty, clean it by immersing it in warm water, to which a small amount of a mild detergent has been added.
6. Rinse the cell clean with a water spray. Do not use a high-pressure cleaner.
7. When all the water has drained from between the layers, reassemble the ventilation unit in the reverse order.
8. Close the door.
9. Plug the ventilation unit back into the mains.

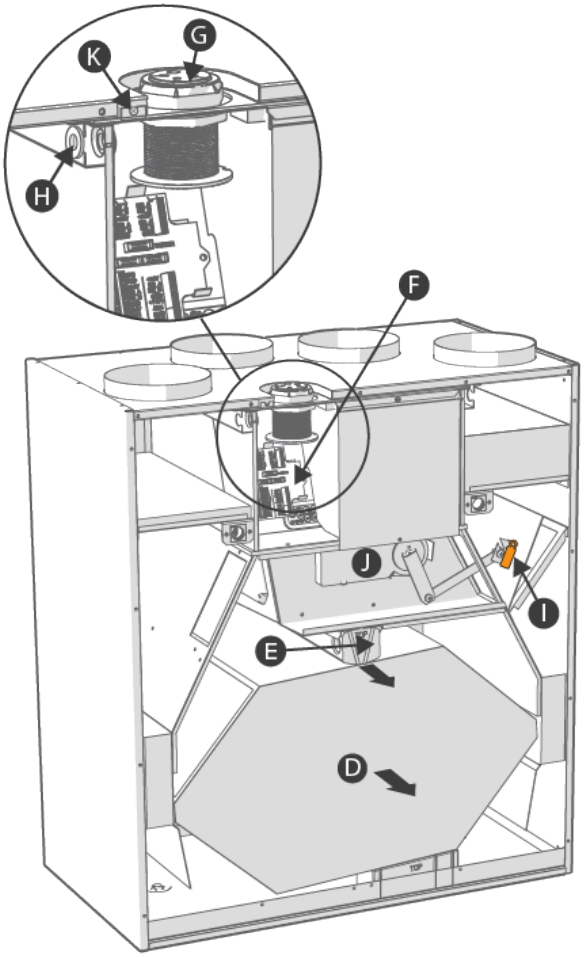
The heat recovery cell has now been cleaned.

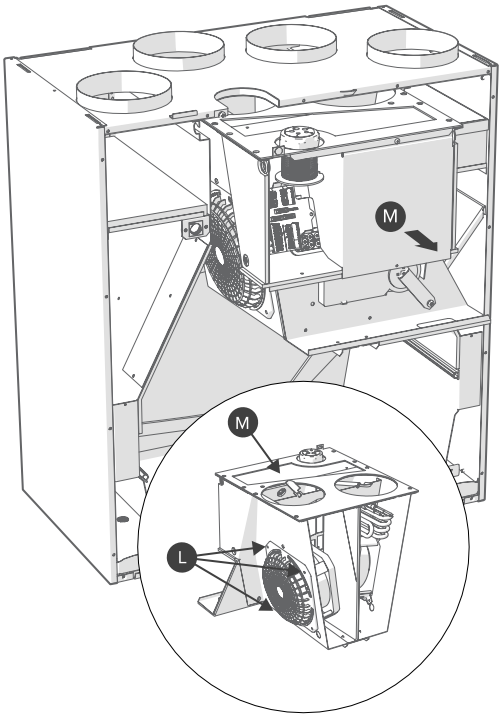
4.3. Cleaning the fans

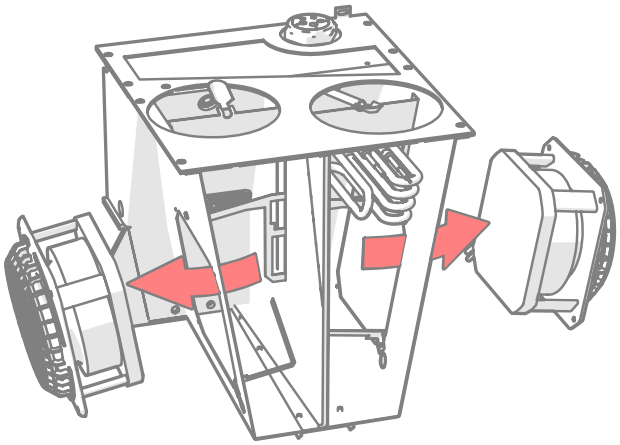
> ⚠ **WARNING:** Always disconnect the power plug before starting maintenance on the ventilation unit. The unit has no safety switch that would switch the power off when the door of the unit is opened.

Check the cleanliness of the fans when servicing the filters and the heat recovery cell. Clean the fans as required.

IMPORTANT:
The fans are extremely sensitive to external shocks. It is recommended that the fans be cleaned in place, i.e. without attempting to remove them. Handle the fan blades carefully.
It is recommended that the fans be cleaned by a professional.







To clean the fans:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Undo the door screws to open the door of the Vallox ventilation unit.
3. Lift the door off.

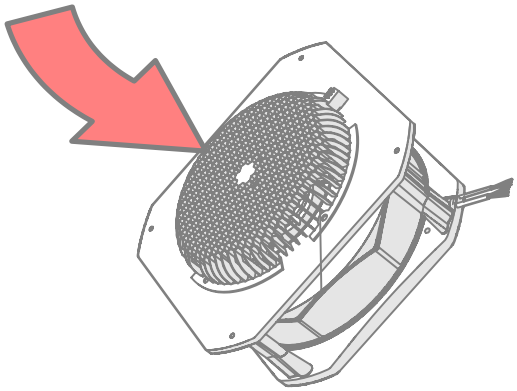
   ⚠ **CAUTION:** The door is heavy.

4. If cables, whose length prevents the fan chamber from being moved far enough from the ventilation unit, have been connected to the connection card on the electric box **(F)** through the ceiling bushing **(G)**, disconnect the cables. Then, pull out the cables through the bushing.
5. Detach the outdoor and exhaust air temperature sensors from the ceiling brackets. Pull off the round feedthrough rubbers **(H)** from the partition wall slots.
6. Loosen the earthing screw in the top left corner of the electric box **(K)**.
7. Release the damper actuator **(J)** by placing the orange magnet **(I)** on the magnet symbol on the damper actuator. Memorise the magnet placement so that you can replace it correctly after maintenance. Detach the bar from the damper pivot. Turn the damper actuator handle to detach the bar from the bypass damper and turn the damper to the cell bypass position.
8. Pull out the black upper support of the cell **(E)**. Lift and pull out the cell **(D)**.
9. Pull out the fan chamber **(M)** (including fans, electric box and bypass duct with its damper actuators).
10. The fans are secured to the fan chamber with four screws **(L)**. You do not need to remove the earthing screw at the bottom of the rear wall.
11. Disconnect the quick connectors of the fan cable.
12. Clean the fans. You can clean the fan with compressed air (use eye protection) or by brushing them with a clean paint brush.
13. To reassemble the ventilation unit, follow the above steps in reverse order.

    IMPORTANT:
    Remember to reattach the damper actuator bar to the damper pivot and secure it with the orange magnet. Make sure the sensors and their feedthrough rubbers are in place. Check also that the connections have been made correctly and the earthing screw is in place in the left corner.

Cleaning the anemometer

The anemometer in the fan must be cleaned at least every three (3) years. It is recommended to use compressed air (max 2–3 bar) for the cleaning.



IMPORTANT:
When using compressed air, the arms of the anemometer must not be allowed to freely. This could damage the bearings.

IMPORTANT:
Cleaning with a brush is not recommended. This could damage the arms.

4.4. Cleaning the grease filter of the cooker hood

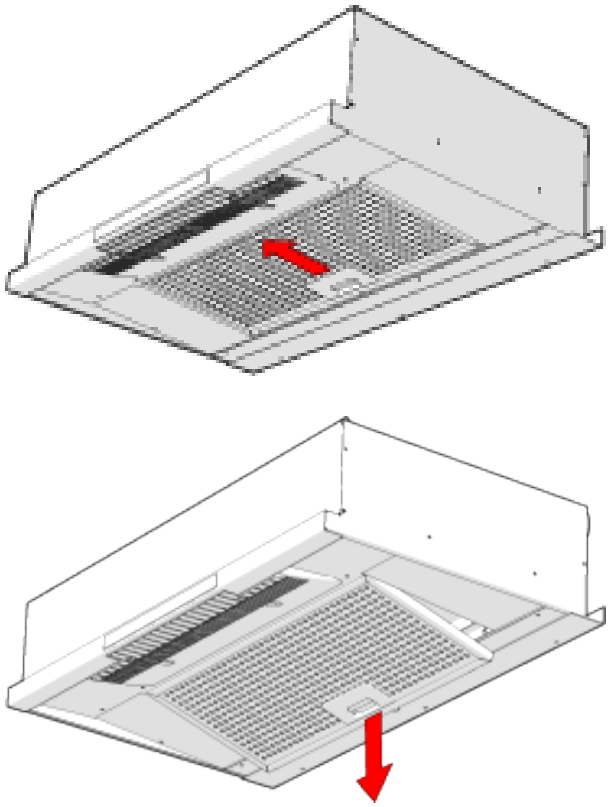
WARNING:
Neglecting the cleaning of the grease filter can cause a fire hazard.

Keep the cooker hood clean. Wipe outer surfaces regularly with water containing a small amount of a mild detergent. Clean off any grease stains immediately. Do not use abrasive or corrosive detergents or tools. Keep the grease filter clean to ensure an adequate extract air flow. The grease filter must be washed with warm water and detergent or in a dishwasher at least 1-2 times a month.

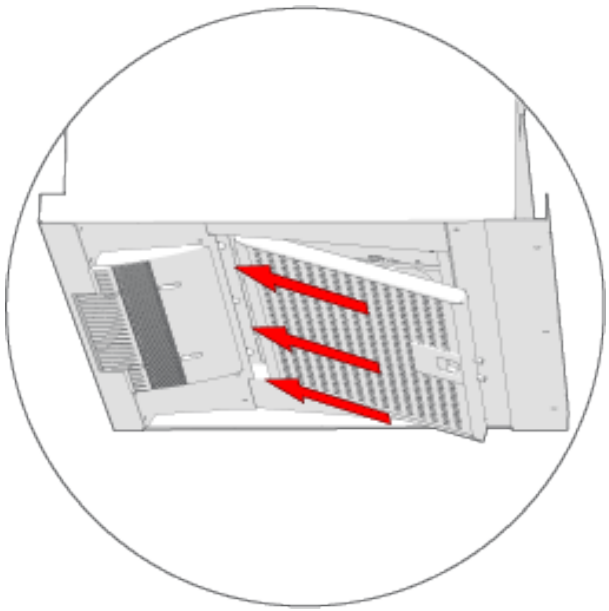
Removing and mounting the grease filter:

1. Pull the locking device of the grease filter towards the front edge of the cooker hood while

pulling the grease filter downwards until it comes off.



2. Clean the grease filter either by washing it with hot water and hand-washing detergent or in a dishwasher.
3. Mount the grease filter back in place. Push the front edge of the filter onto the shelf of the cooker hood and lift the rear edge in place with the locking device pressed down.



IMPORTANT:
Ensure that the locking device points downwards.

4.5. Cooker hood light

The cooker hood has a long-lasting LED lighting module. If the light is not working, contact a servicing company.

4.6. Condensing water

During the heating season, moisture in extract air condenses into water. Condensation can be heavy in new buildings. It is important that the condensing water is drained from the unit without hindrance.

NOTE:
There may be a little bit of condensing water in the unit's bottom pool. This is perfectly normal and does not call for action.

While carrying out maintenance, make sure that the condensing water blocks in the bottom pool are not clogged and that they are not leaking. You can do this in autumn before the start of the heating season, for example. To check that there are no blockages or leaks, pour water into the pool. Unblock and clean if necessary.

WARNING:
Water must at all times be kept out of the electrical system.

4.7. Troubleshooting

The table below provides instructions for troubleshooting and repair.

IMPORTANT:
We recommend you always use the latest software version. You can check the latest version at https://cloud.vallox.com.

NOTE:
Error messages are displayed on the control panel and in the MyVallox Home and MyVallox Cloud services.

Table 3. Troubleshooting

Error	Cause	Follow these steps
Error message: Extract air fan	The extract air fan has stopped.	Make sure the fan has really stopped. Check the fan wires and operation. If necessary, the fan must be replaced. Contact the service centre.
Error message: Supply air fan	The supply air fan has stopped.	Make sure the fan has really stopped. Check the fan wires and operation. If necessary, the fan must be replaced. Contact the service centre.
Error message: Temperature sensor 1/2/3/4/5	A temperature sensor indicated by the user interface is damaged.	Check the sensor installation. If necessary, the sensor must be replaced. Contact the service centre.
Error message: High supply air temperature	The supply air temperature is too high.	Check the operation of the post-heating and additional heating resistors. Make sure the resistors are on in the user interface. If necessary, contact the service centre.
Error message: Low supply air temperature	The supply air temperature is too low.	Check the operation of the post-heating and additional heating resistors. Make sure the resistors are on in the user interface. If necessary, contact the service centre.
Error message: Bus error	Problems in data transmission.	Make sure that the control panel and any external sensors are connected and working correctly.
Both the ventilation unit and the control panel do not work.	The unit's power supply has been cut off.	Check: • Fuse on the fuse panel • The unit's glass tube fuse. Contact the service centre.
The ventilation unit works but the control panel does not work.	The control panel's 24 VDC supply has been cut off, there are problems in data transmission or the control panel is damaged.	• Check the cords between the unit and the control panel. • Unplug the unit and restart the unit. • Update the unit software. • Contact the service centre.

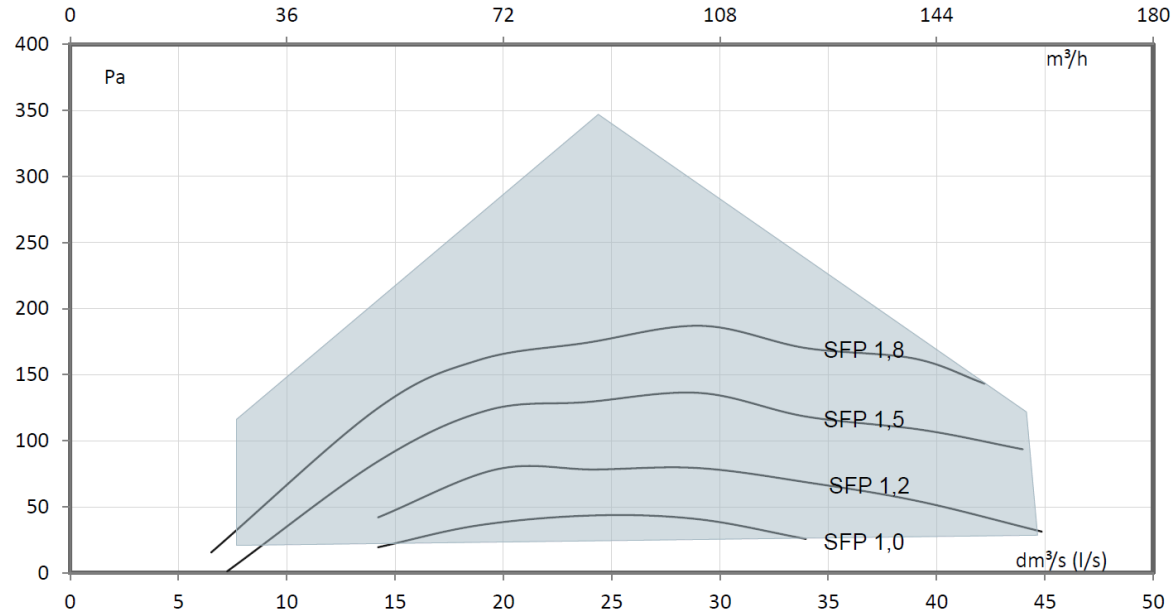
5. Technical data

Table 4. Technical properties MyVallox 51K CFi

Object	MyVallox 51K CFi
Product titles	MyVallox 51K CFi R MyVallox 51K CFi L Vallox Captura white hood Vallox Captura stainless steel hood
Type code	3832
Air volumes	• Supply air — 44 dm^3/s, 100 Pa • Extract air — 45 dm^3/s, 100 Pa
Electrical connection	230 V, 50 Hz, 4.24 A 2 x power plug
Enclosure protection class	IP34
Post-heating	Electrical resistor, 900 W
Pre-heating	-
Additional heating	-
Fans	• Extract air — 0.035 kW 0.35 A EC • Supply air — 0.035 kW 0.35 A EC
Specific energy consumption (SEC)	• In a cold climate — A+ • Temperate climate — A+
Efficiencies*	• Annual efficiency — 81% • Supply air efficiency — 89% • Specific Fan Power SFP — 1.04 $kW/m^3/h$ (32 dm^3/s) B
Filters	• Supply air — ISO Coarse > 75% + ISO $ePM_1 \geq 50$ % • Extract air — ISO Coarse > 75%
HR cell bypass	Automatic
Dimensions (width x height x depth)	598 x 802 x 349 mm
Weight	51 kg
*Working point defined in the Ecodesign Directive (2009/125/EC), Southern Finland, Helsinki-Vantaa TRY year 2020.	

5.1. Supply/extract air volumes and input powers

Figure 1. Supply and extract air volumes, aluminium heat recovery cell



The recommended SFP (Specific Fan Power) rate is <1.8 (kW m^3/s). At a lower total pressure, the SFP rate is lower.

Table 5. Input power, aluminium heat recovery cell

	l/s	m^3/h	Pa	W
Min	7	27	73	16
Mid	24	87	145	39
Max	44	158	122	72

You can calculate the operating-point-specific input power with the *Vallox MySelecta* product selection program.

5.2. Sound values

Table 6. Sound power level in the supply air duct, aluminium heat recovery cell

Sound power level in the supply air ducts by octave band $L_{W'}$ dB									
Air flow l/s		**8**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
Medium frequency of the octave band Hz	**63**	64	64	66	68	70	73	73	73
	125	55	55	59	62	66	66	67	67
	250	57	57	57	60	61	64	64	64
	500	47	47	52	56	59	63	64	64
	1000	41	41	47	51	54	58	63	63
	2000	32	32	38	43	46	50	52	52
	4000	24	24	32	38	43	47	48	48
	8000	22	22	24	29	35	41	43	43
$L_{W'}$ dB		65	65	67	70	72	75	75	75
$L_{WA'}$ dB(A)		51	51	54	57	60	63	66	66

Table 7. Sound power level in the extract air duct, aluminium heat recovery cell

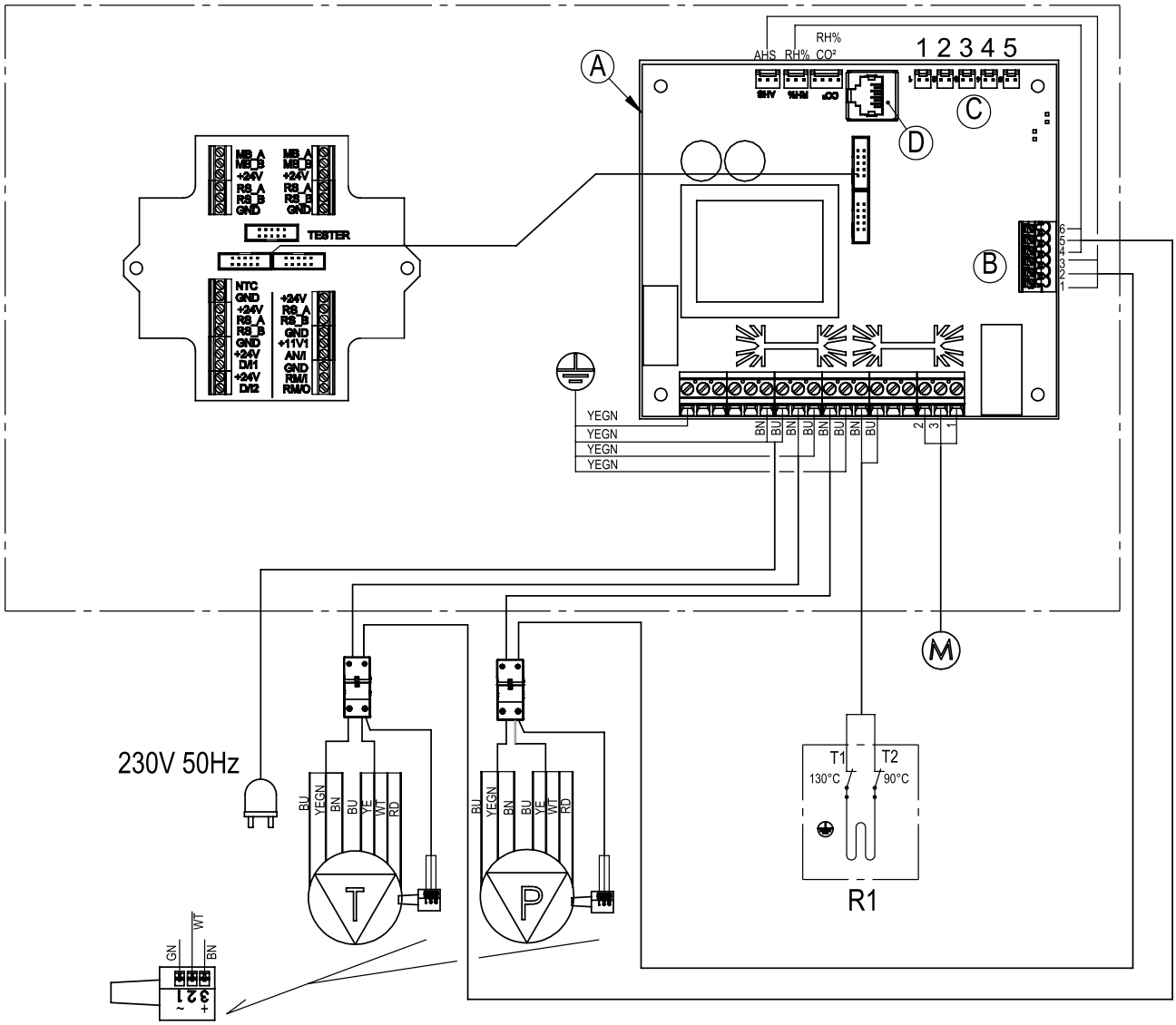
Sound power level in the extract air ducts by octave band $L_{W'}$ dB									
Air flow l/s		**8**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
Medium frequency of the octave band Hz	**63**	56	56	61	65	68	68	72	72
	125	47	47	51	54	56	58	60	60
	250	34	34	39	44	46	47	50	50
	500	35	35	39	42	46	49	54	54
	1000	25	25	30	34	37	40	44	44
	2000	14	14	17	20	24	28	33	33
	4000	17	17	17	17	17	19	24	24
	8000	22	22	22	22	22	22	22	22
$L_{W'}$ dB		56	56	62	65	68	69	72	72
$L_{WA'}$ dB(A)		37	37	41	44	48	50	53	53

Table 8. Sound pressure level coming through the envelope, aluminium heat recovery cell

Sound pressure level coming through the envelope of the unit in the room in which it is installed (no standard extraction through the hood in the kitchen)								
Air flow l/s	**8**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
L_{pA}, dB (A)	25	25	29	32	34	38	40	40

The operating-point-specific sound values can be calculated with the *Vallox MySelecta* product selection program.

5.3. Internal electrical connection



A	Motherboard	**11V1**	11.1 V operating voltage
B	1. Extract air fan tacho (WT) 2. GND (GN) 3. Extract air fan PWM (YE) 4. Supply air fan tacho (WT) 5. GND (GN) 6. Supply air fan PWM (YE)	**AN/I**	Analog input 0–10 VDC

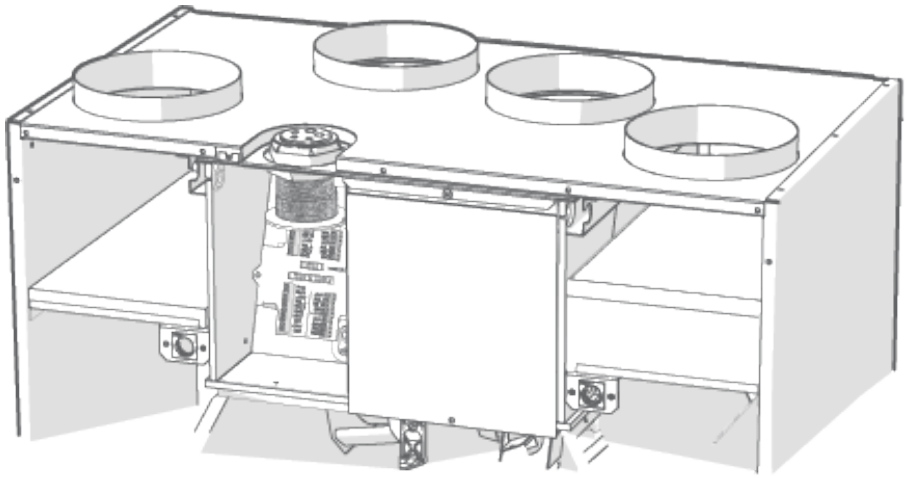
C	1. Extract air 2. Outdoor air 3. Supply Air 4. Exhaust air 5. Supply air from the HR cell	**RM/I**	24 V relay input
D	LAN	**RM/O**	24 V relay output
MB_A	External Modbus A signal	**T**	Supply air fan
MB_B	External Modbus B signal	**P**	Extract air fan
+24V	+24V voltage (DC)	**M**	Damper motor
GND	Digital and analog ground potential	**S/E**	Fan balance adjustment
RS_A	Local hardware Modbus A signal	**AHS**	Air flow measuring sensor for extract air fan
RS_B	Local hardware Modbus B signal	**%RH**	Air flow measuring sensor for supply air fan
NTC	External temperature sensor connector	**%RH** **CO_2**	Internal humidity and carbon dioxide sensor
D/I1	Digital input 1	**R1**	Post-heating resistor with 90°C and 130°C overheating protection
D/I2	Digital input 2		

Table 9. Cable colours

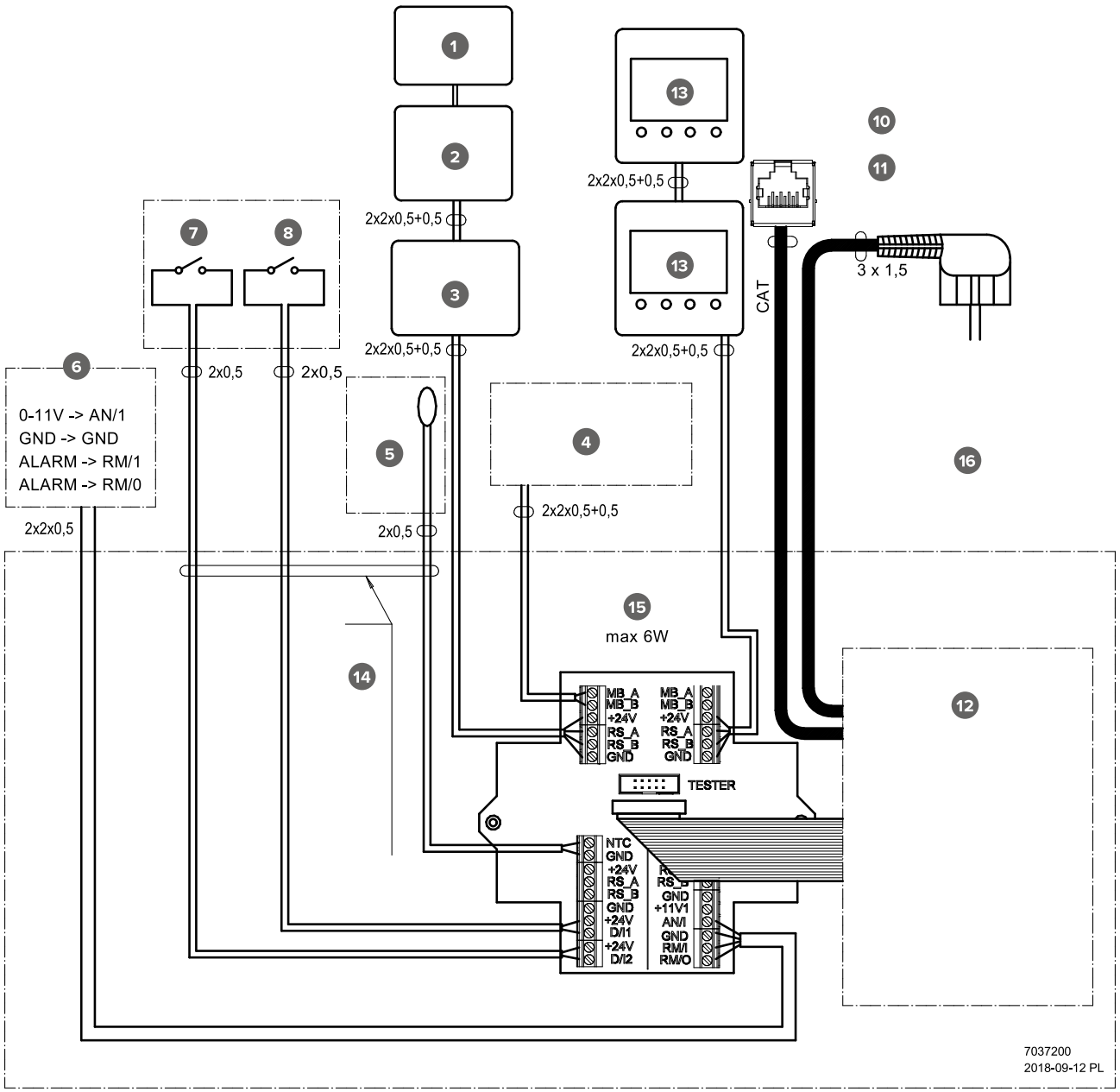
Code	Colour	Code	Colour
BK	Black	**GN**	Green
BU	Blue	**RD**	Red
BN	Brown	**YE**	Yellow
WT	White	**YEGN**	Yellow-green

5.4. External electrical connections

External electrical connections are led to the ventilation unit through the ceiling bushing for electric wires. The length of the wires must enable pulling the fan chamber assembly out of the unit without having to disconnect any of the connections.



5.4.1. External electrical connection



1	MyVallox VOC sensor	**10**	Ethernet connection and power plug on top of the unit
2	MyVallox %RH sensor	**11**	RJ45 female
3	MyVallox CO2 sensor	**12**	Motherboard (underneath the cover)
4	Remote monitoring Modbus RTU	**13**	MyVallox control panel

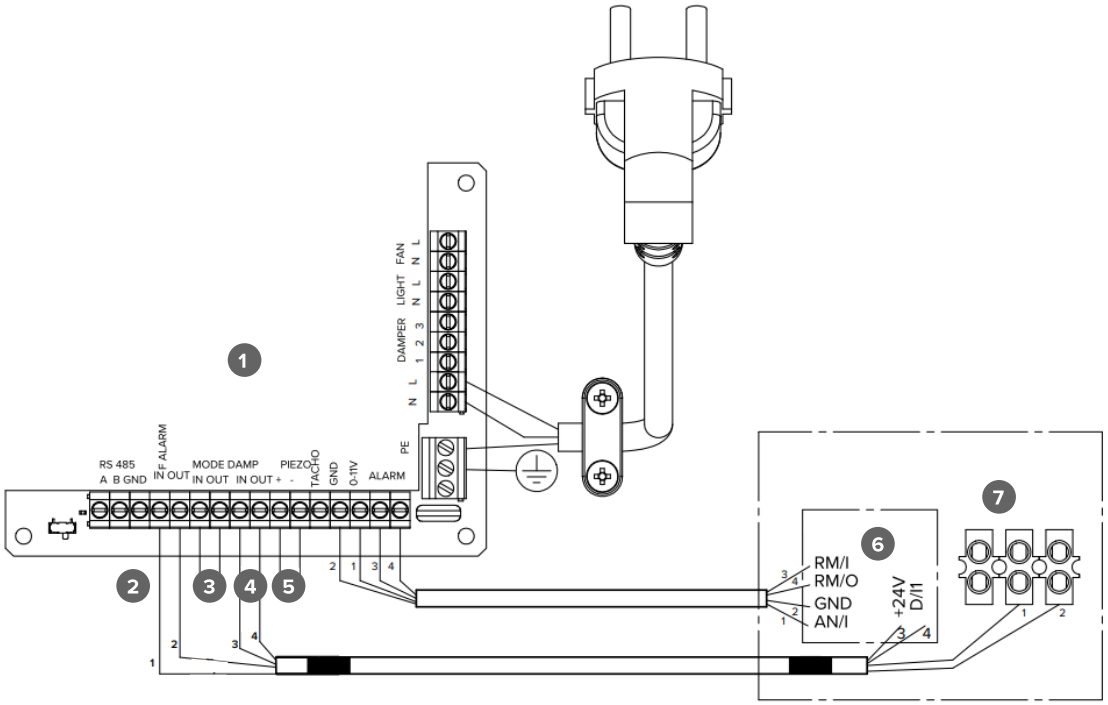
5	External temperature sensor NTC 4K7	**14**	These low-current signals can be led by using just one cable.
6	Cooker hood	**15**	Connection box power supply max. 6 W
7	Digital input 1	**16**	**NB!** The ventilation unit has three vacant feedthroughs. If necessary, more holes can be added or all the required low-current signals can be led out of the unit with one cable and split outside the unit.
8	Digital input 2		

MB_A	External Modbus A signal	**D/I1**	Digital input 1
MB_B	External Modbus B signal	**D/I2**	Digital input 2
+24V	+24 V voltage (DC)	**11V1**	11.1 V operating voltage
GND	Digital and analog ground potential	**AN/I**	Analog input 0-10 VDC
RS_A	Local hardware Modbus A signal	**RM/I**	24 V relay input
RS_B	Local hardware Modbus B signal	**RM/O**	24 V relay output
NTC	External temperature sensor connector		

Table 10. Power supply

Object	Feed
Maximum	≤6W
MyVallox Control	1 W
MyVallox Touch	0.5 W
%RH sensor	0.3 W
CO_2 sensor	1.2 W
VOC sensor	2 W
Voltage	24 VDC

5.4.2. External electrical connection Vallox Captura cooker hood

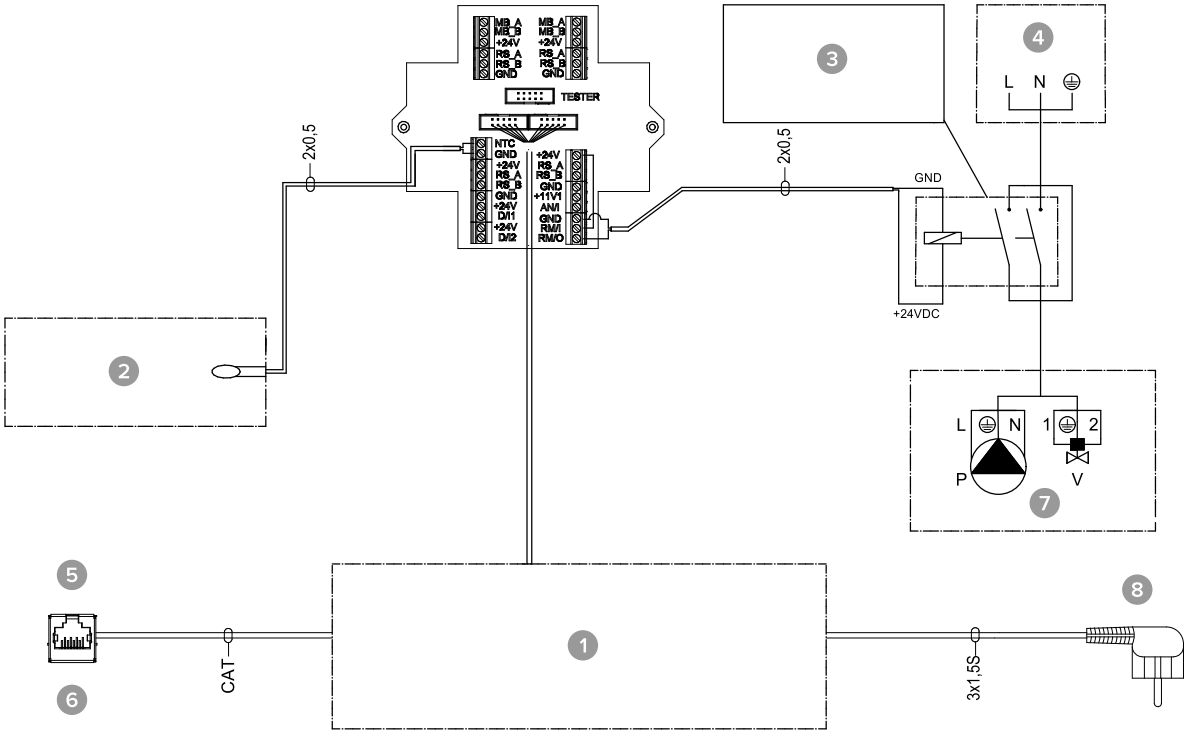


1	3 potential free contact data 24VDC/5A	5	Extra
2	Programming connectors of the circuit board	6	Connection card
3	Building automation system contact data	7	Temperature guard Contact data
4	Damper contact data		

Table 11. Contact data

Temperature guard	Building automation system	Position of the damper
Normal situation = Open	Normal situation = Open	Damper closed – Contact open
Activated = Closed	Error situation (hood or ventilation unit) = Closed	Damper open – Contact closed
	Activated temperature guard = Flashing	

5.4.3. External electrical connection for controlling the MLV duct radiator



1	Internal connection of the ventilation unit	**5**	Ethernet connection on top of the unit
2	External temperature sensor NTC 4K7	**6**	RJ45 Female
3	24 VDC relay/contactor for controlling the pump and solenoid valve	**7**	MLV control
4	Distribution board	**8**	Plug connection 1.2 m on top of the unit

MB_A	External Modbus A signal	**D/I2**	Digital input 2
MB_B	External Modbus B signal	**11V1**	11.1 V operating voltage
+24V	+24 V voltage (DC)	**AN/I**	Analog input 0-10 VDC
GND	Digital and analog ground potential	**RM/I**	24 V relay input
RS_A	Local hardware Modbus A signal	**RM/O**	24 V relay output

RS_B	Local hardware Modbus B signal	**P**	Circulation pump
NTC	External temperature sensor connector	**V**	Solenoid valve
D/I1	Digital input 1		

5.5. Duct radiator operation

Always primarily follow the connection plan provided by the HVAC designer or heat pump manufacturer. Remember to also read the duct radiator's instructions for use.

The accompanying figure shows an example of the arrangement for connecting the heating/cooling radiator unit to the heat collection circuit.

> **NOTE:**
> If the duct radiator is used in the supply air duct, it can only be used for cooling.

The output pipe of the radiator unit is connected to the return pipe of the heat collection circuit. The liquid returning from the radiator unit is circulated back to the heat collection circuit's return pipe. If it is known that the pressure losses inside the heat collection circuit's heat pump are too great, bypassing the heat pump is recommended. In that case the liquid is circulated when the heat pump is at rest, and the pressure loss of the bypass' one-way valve Y2 must be smaller than the pressure loss of the heat pump.

Heating: The pump is switched on when the outdoor air temperature drops below the factory-set winter limit (-5°C).

Cooling: The target supply air temperature set for the unit's mode (e.g. At Home mode) determines when the pump is switched on. The pump is switched on when the supply air setting is lower than the temperature of the air supplied.

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

> **NOTE:**
> To control the outdoor air duct radiator, an external NTC sensor is installed in the outdoor air duct before the radiator. To control the supply air duct radiator, an external NTC sensor is installed after the radiator.

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

- Automatic operation: 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 operation: 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 prevent the risk of condensation in the supply air duct, you can set the adjustment of the supply air limit to automatic or manual.

- Automatic adjustment: 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 adjustment: The supply air limit is set manually. When the supply air temperature drops below the set value, the duct radiator is switched off.

If you are using an external sensor, go to the external sensor settings and select either outdoor air duct radiator or supply air duct radiator control. The external sensor's temperature reading is displayed in the maintenance menu: Menu → Service menu → Unit information (page 5) → External sensor.

NOTE:
When choosing the relay (C), take into account the maximum joint power supply of the motherboard of the MV electric box (max. 6 W), if the relay is supplied by the motherboard's +24 V connector.

NOTE:
Due to the risk of humidity damage, in a duct that has not been insulated for condensation the supply air temperature must not fall below +16 ... 20 °C.

Figure 2. Duct radiator operation chart in the outdoor air duct

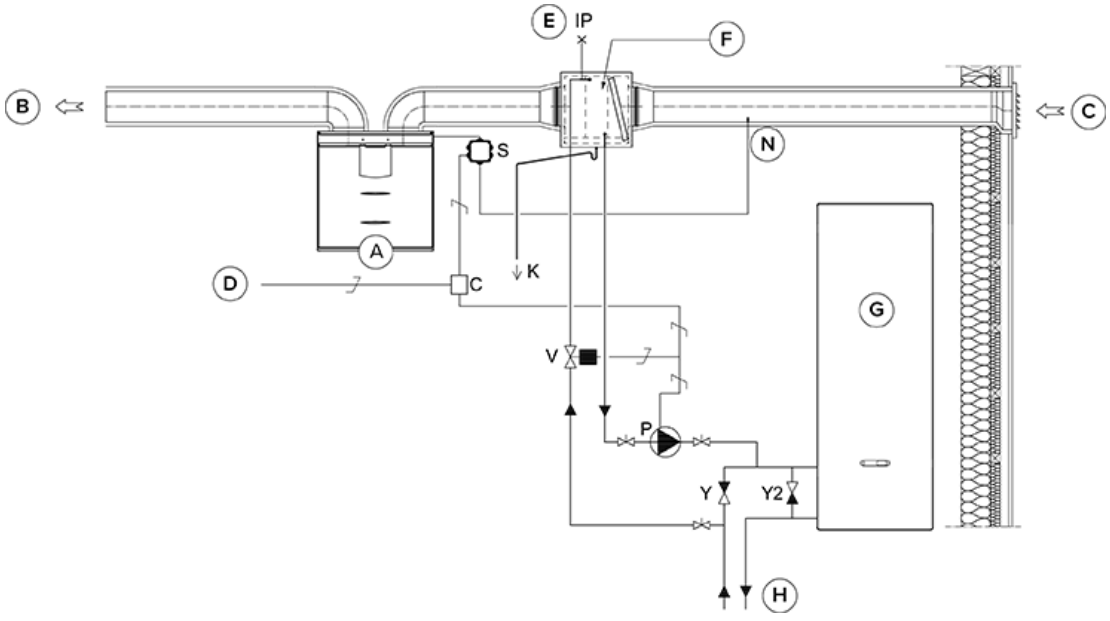
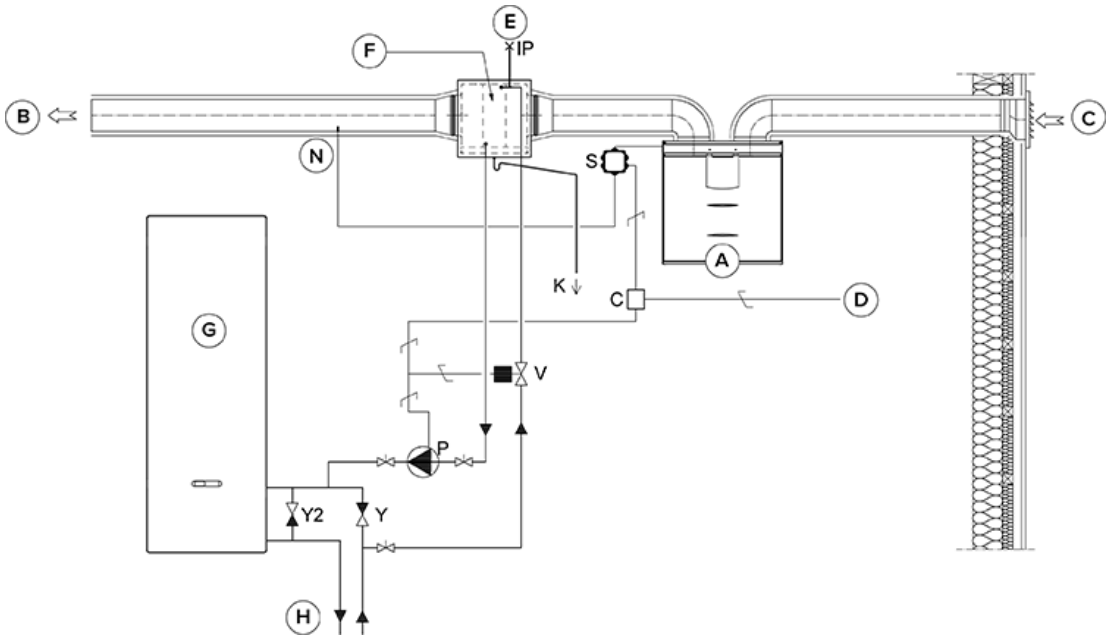


Figure 3. Duct radiator operation chart in the supply air duct



A	Ventilation unit	**P**	Circulation pump. Not included in delivery. Due to a risk of condensation, use a pump that is suitable for pumping liquid colder than the environment (e.g. Grundfos Magna 1 25-80).
B	Supply air	**V**	Solenoid valve. Not included in delivery. The valve should be suitable for heat collection circuit liquid (e.g. ELV05006, Stig Wahlström, Danfoss 032U161431, HVAC code 4122110).
C	Outdoor air	**K**	Condensing water tube. Not included in delivery.
D	Feed from the distribution board	**IP**	De-aerator. Not included in delivery.
E	Air extraction	**S**	External MV electrical connection box.
F	Duct radiator (reverse connection)	**C**	24 VDC Relay/contactor for controlling the pump and solenoid valve. Not included in delivery. (e.g. ABB CR-P024DC2).
G	Heat pump	**Y**	One-way valve. Not included in delivery.
H	Heat collection circuit	**Y2**	One-way valve. Not included in delivery. The pressure loss must be smaller than the pressure loss of the heat pump.
N	External NTC sensor for Vallox MV units.		

5.6. Dimensions and duct outlets

Figure 4. Dimensions MyVallox 51K CFi

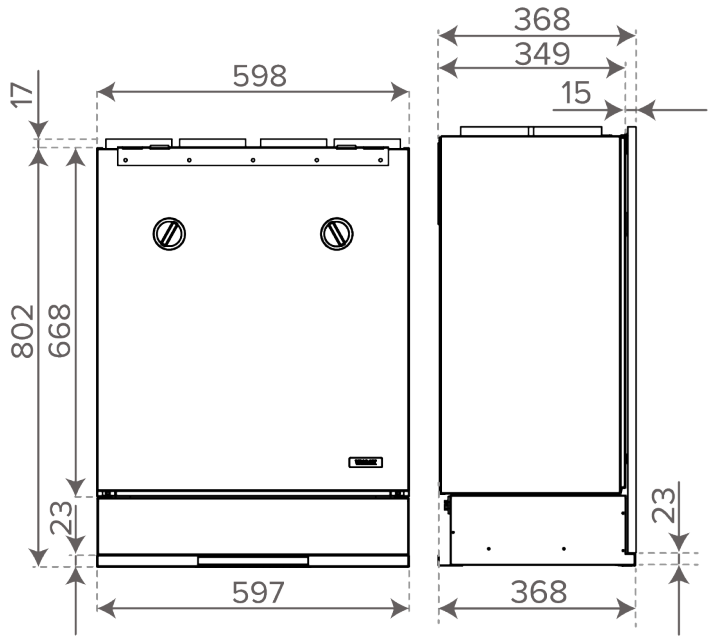
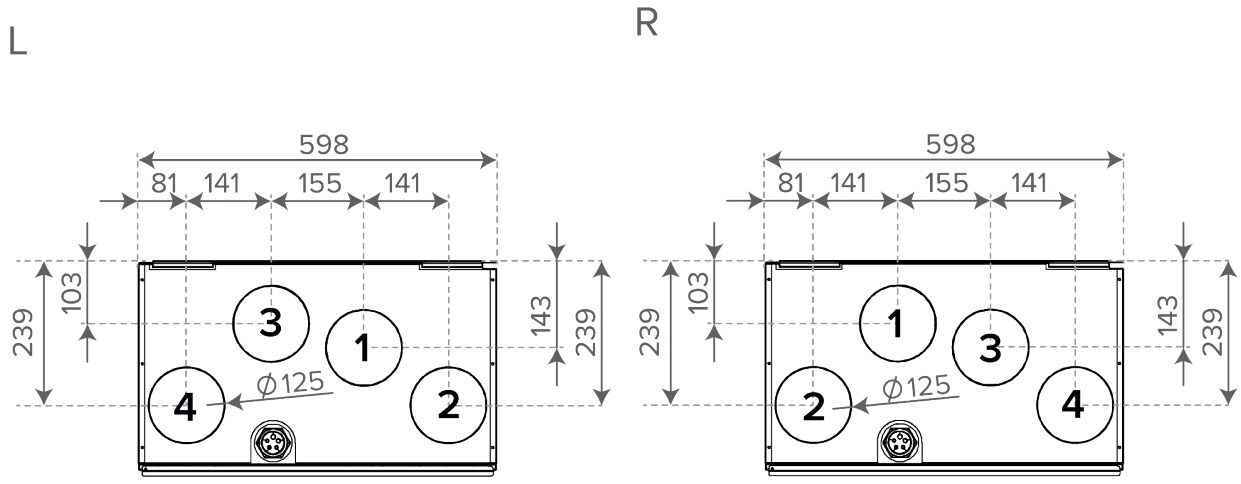


Figure 5. Duct outlets, L model and R model

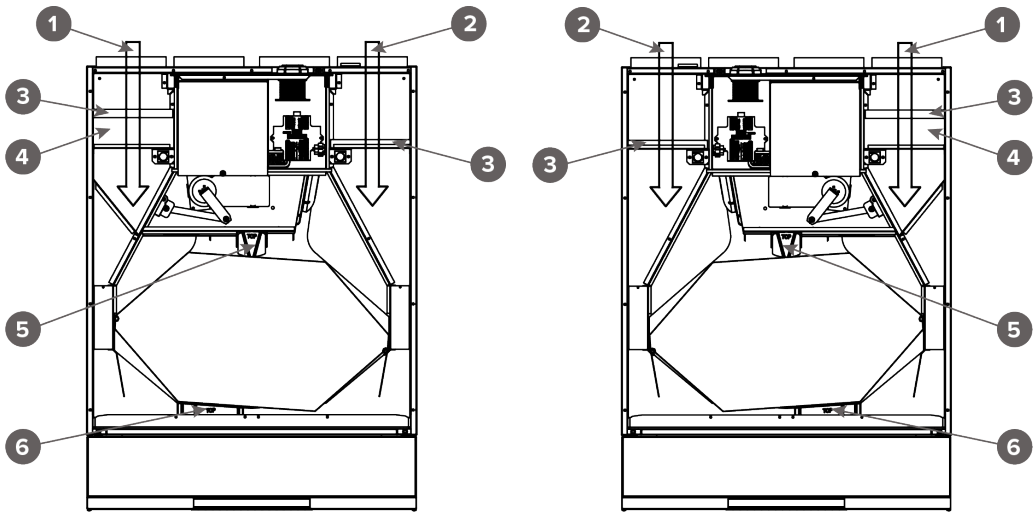


Inner diameter of the female collar ∅ 125 mm.

1. Supply air from unit to apartment
2. Extract air from apartment to unit
3. Exhaust air from unit to outdoors
4. Outdoor air to unit

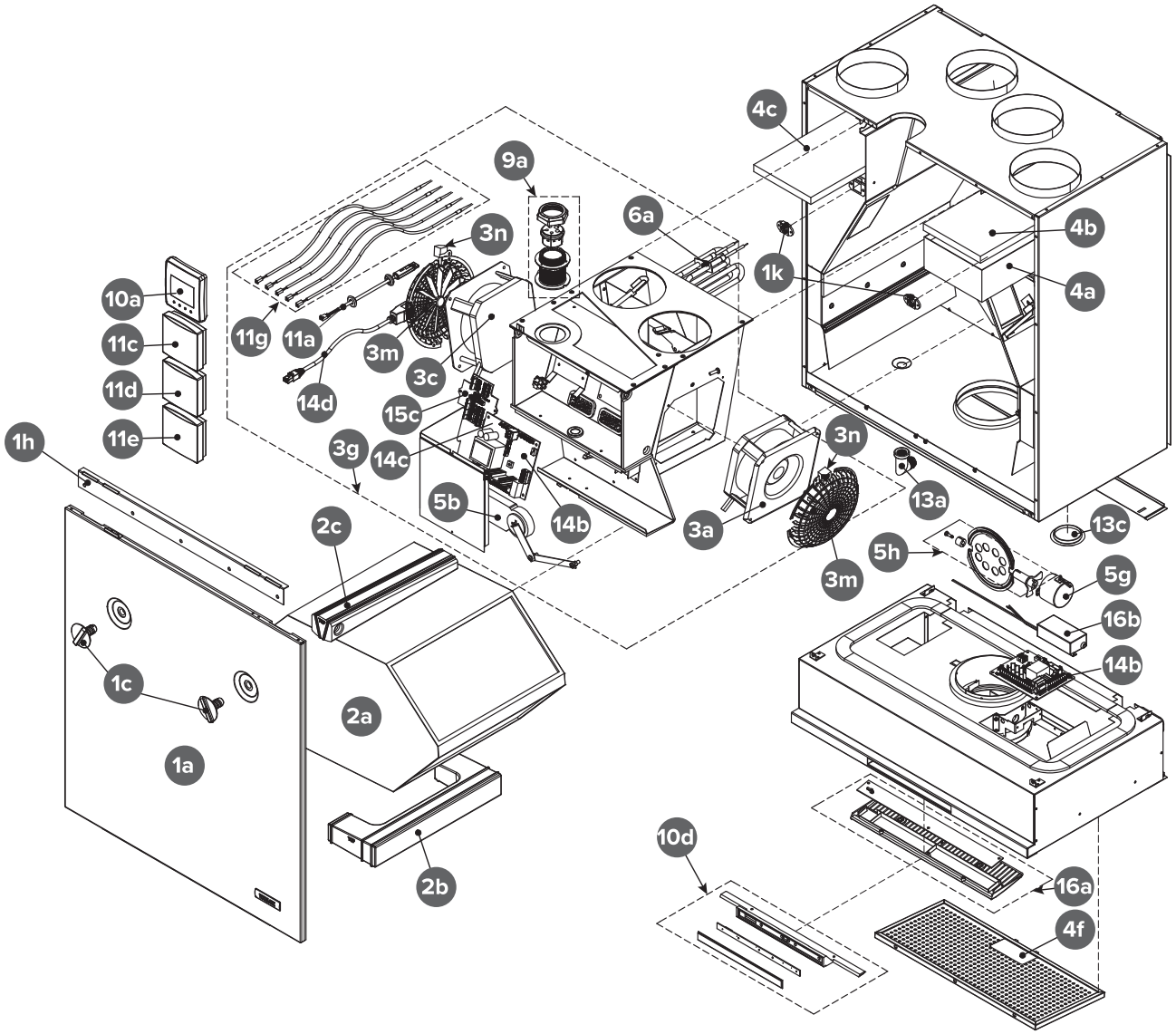
HR cell support locations

Figure 6. MyVallox 51K CFi (left- and right-handed model)



1. Supply air
2. Extract air
3. Coarse filter
4. Fine filter
5. Upper support of the cell
6. Lower support for the HR cell

6. Exploded view and list of spare parts



No.	Part	No.	Part
1a	Door	6a	Post-heating resistor, R model Post-heating resistor, L model
1c	Door screw (delivered with the door screw's lock nut)	9a	Ceiling bushing Ceiling feedthrough seal
1h	Cover door mounting strip	10a	Control panel
1k	Door screw's lock nut (delivered with the door screw)	10d	Front panel assembly white Front panel assembly stainless steel

No.	Part	No.	Part
2a	HR cell	11a	Internal humidity and carbon dioxide sensor
2b	Lower support of the HR cell	11c	MyVallox carbon dioxide sensor (optional)
2c	Upper support of the HR cell	11d	MyVallox humidity sensor (optional)
3a	Extract air fan	11e	MyVallox VOC sensor (optional)
3c	Supply air fan	11g	NTC sensor kit
3g	Fan chamber assembly, R Fan chamber assembly, L	13a	Siphon Vallox Silent Klick
3m	Anemometer	13c	Plastic screw Cover plug
3n	Hall sensor	14b	Motherboard
4a	Fine filter for supply air	14c	Glass tube fuse 63 mA slow 5 x 20 mm
4b	Coarse filter for supply air	14d	RJ-45 extension cable
4c	Coarse filter for extract air	15c	Connection card
4f	Grease filter	16a	LED light Light fixture frame
5b	Bypass damper actuator	16b	LED power source

7. Declaration of Conformity

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY

Manufacturer Vallox Oy	
Address	Myllykyläntie 9-11, FIN-32200 LOIMAA, FINLAND
Telephone number	+358 10 7732 200
The person who compiles the technical file	Petri Koivunen Vallox Oy Myllykyläntie 9-11, FIN-32200 LOIMAA, FINLAND Tel. +358 10 7732 200 Email info@vallox.com
Description of unit	Ventilation unit with heat recovery

Model MyVallox 51/51K/99/119/125/149/245/ 245 VKL CFi
Vallox 51/51K SC/MV,
Vallox 99/125/096/110/145/245/245 VKL MV,
Vallox 99 MV CF,
Vallox TSK Multi 50/80 MV,
ValloPlus 180/180K/270/370/510/520/850 MV,
ValloPlus 180/270 SC,
ValloMulti 200 SC/MV, ValloMulti 300 MV

Declares that the ventilation unit for supply and extract air, equipped with heat recovery and operating as part of a ventilation system has been designed and manufactured to the following specifications:

1. Low Voltage Directive (2014/35/EU) – EN 60335-1:2012 + A11:2014, A13:2017 + A1:2919 + A14:2019 + A2:2019; EN 62233:2008
2. EMC Directive (2014/30/EU) – EN 61000-6-1:2007, EN 61000-3-2:2014 + A1:2009 + A2:2009, EN 61000-3-3:2013, EN 61000-6-3:2007 + A1:2011
3. Ecodesign Directive (2009/125/EY) – Comission regulation 1253/2014 – EN 13141-7 Annex B, EN 308, EN 13141-7, ISO 3741, ISO 5135
4. RoHS Directive (2011/65/EU, 2015/863/EU)

This is the original Declaration of Conformity

Loimaa, 22nd September 2025

Jukka-Pekka Korja
Managing Director

Vallox Oy
Myllykyläntie 9-11
FI-32200 LOIMAA
FINLAND

Tel. +358 10 7732 200
Fax. +358 10 7732 201
www.vallox.com
firstname.familyname@vallox.com

ALV rek.|VAT
Y-tunnus | Business ID:
Kotipaikka|Registered Domicile:

FI06723509
0672350-9
Loimaa, Finland