VALLOX

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MyVALLOX
119 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

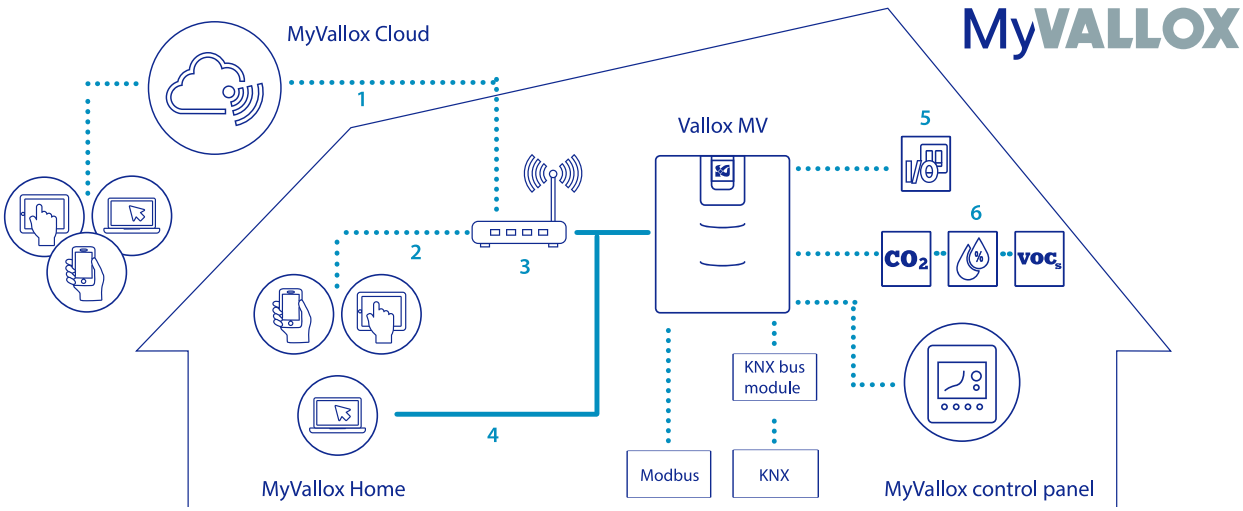
WARNING: The unit is not intended for use by children under 8 or by persons with reduced sensory, physical or mental capabilities, or whose lack of knowledge and experience do not ensure safe operation of the unit. Such persons can use the unit under supervision, or by following the instructions of someone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

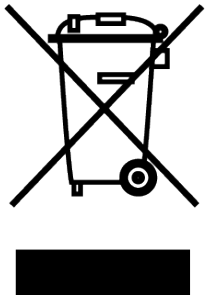
The guarantee and liability exclude damage resulting from:

- 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

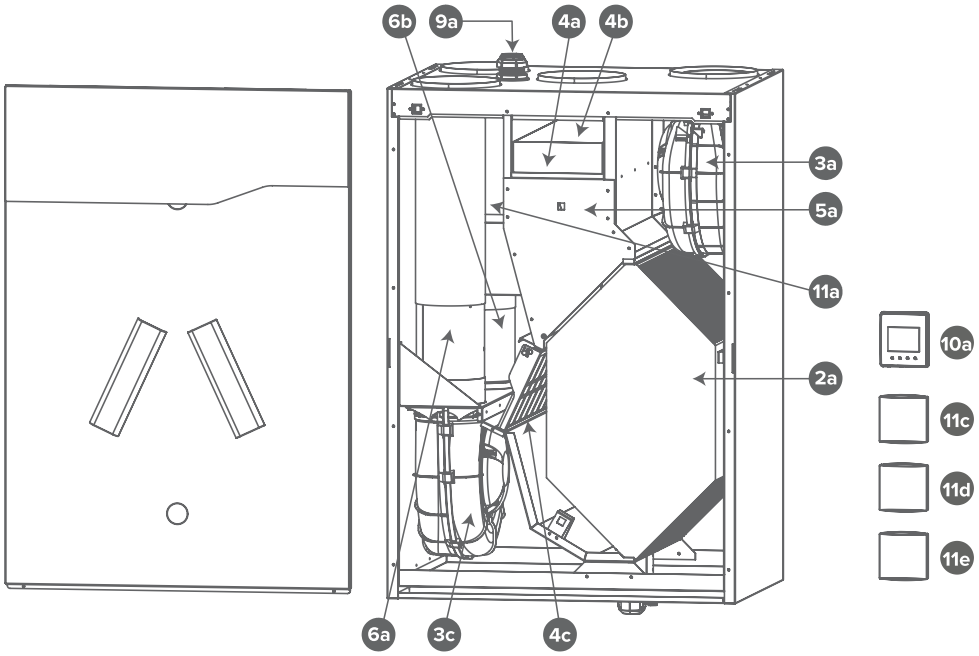
1.6. Disposal of the ventilation unit

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.



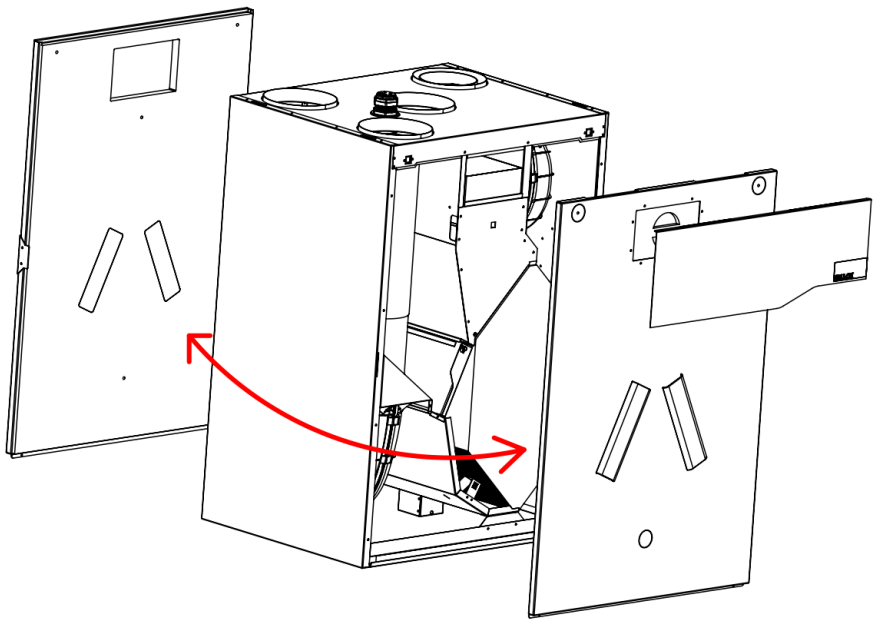
1.7. Main parts



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

MyVallox 119 CFi is always delivered as a right-handed model (R). This means that the outdoor and exhaust air ducts, i.e., the ducts that lead outdoors from the apartment, are connected to the outlet collars located on the right-hand side at the top of the unit. The condensing water outlet is also located on the right-hand side at the bottom of the unit.

The handedness of the unit can be changed easily by interchanging the location of the front and the back doors.



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.

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

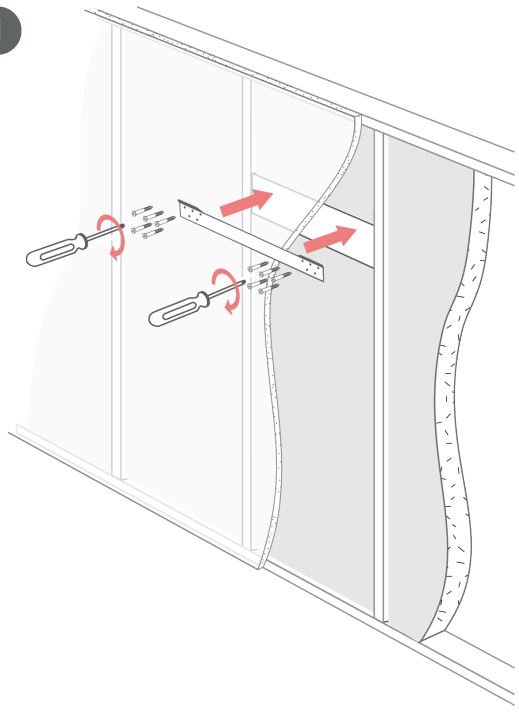
NOTE:
Avoid mounting the ventilation unit to a hollow partition wall or a bedroom wall, or prevent the conduction of noise through the wall.
The minimum distance between the unit roof and the ceiling surface is 30 mm. Please note that the unit sits 10 mm higher than the final height when mounted by using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

NOTE: A space of at least 555 mm must be reserved in front of the unit for maintenance purposes.

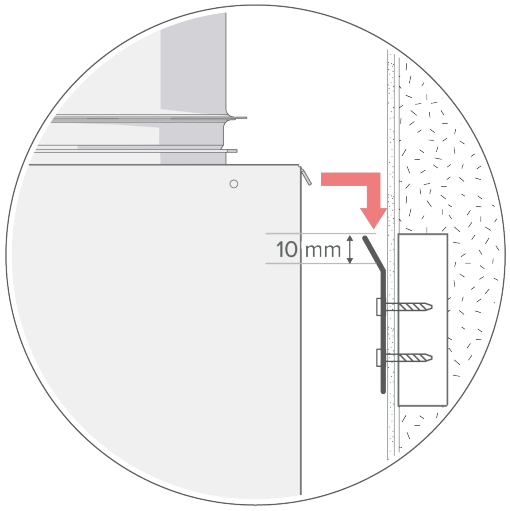
NOTE: Install the ventilation unit in a place where the temperature does not drop below +10°C.

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



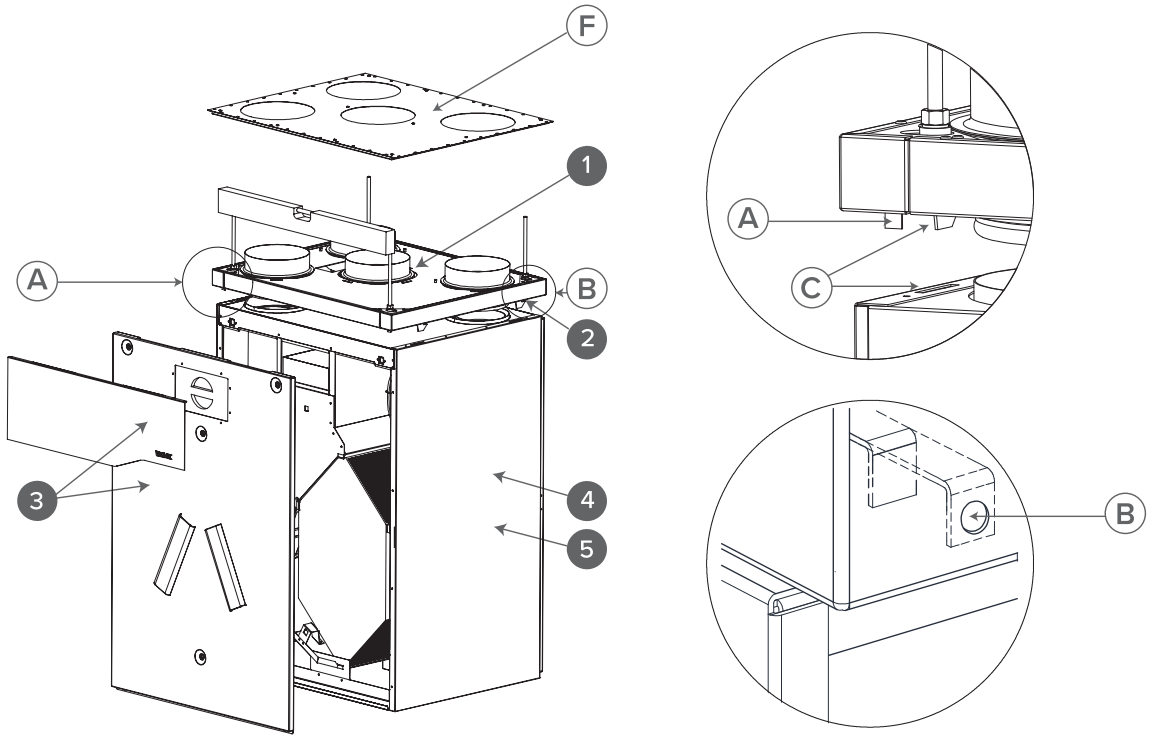
2.2. Mounting the ventilation unit to the ceiling

The model MyVallox 119 CFi can be equipped with an optional ceiling mounting plate. To attach the ceiling mounting plate:

NOTE: When installing the unit, reserve a space of at least 555 mm in front of the unit for servicing purposes.

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

WARNING: The unit is very heavy. Do not perform the task alone.



1. Install the ceiling mounting plate with M8 thread bars so that it is horizontally level. Do not fasten the ceiling mounting plate too tight to the ceiling.

   NOTE: The end of the thread bars must be 5 mm or less below the fastening nut.

   Alternative 1.

   Pull from the operating levers (**A**) to ensure that the sliding bars move and restore to their original position.

Alternative 2.

Make sure that the sliding bars move and that they return to their original position by pushing the ejector lever (**B**) e.g. with a small screwdriver.

The top edge of the white covering strip of the ceiling mounting plate can be installed against the ceiling. Alternatively, a concealed mounting method can be used, in which case the ceiling can be 25 mm below the top of the white covering strip.

2. Ensure that the insulation washers are in place in the outlet collars below the ceiling mounting plate.
3. Remove the door covering strip and the door of the ceiling mounting plate during the installation of the MyVallox 119 CFi unit.
4. Lift the ventilation unit close to the ceiling mounting plate and feed the cables through the hole in the ceiling mounting plate on top of the ceiling.

> **NOTE:** Remember to make a maintenance hatch in the finished ceiling, so that the cables can be accessed. The distance between the maintenance hatch and the ceiling mounting plate should be around 500 mm.

When the ventilation unit is lifted against the ceiling mounting plate, the unit locks in place. Where needed, guide the mounting hooks on the ceiling mounting plate to the grooves on the side panels of the ventilation unit (**C**).

Alternative 1.

The front bottom corners of the ceiling mounting plate have operating levers (**A**) that lock the plate. If the inner edges of the levers have returned to the same level as the front edge of the unit's ceiling, the unit has been locked onto the ceiling mounting plate.

Alternative 2.

The front edge corners of the ceiling mounting plate have holes through which you can see the ejector levers (**B**) of the locking mechanism. If the inner edges of the levers have returned to the same level as the interior surface of the covering strip, the unit has been locked onto the ceiling mounting plate.

5. **Alternative 1.**

Where required, the unit can be detached from the ceiling mounting plate. Lift the unit slightly upwards and pull simultaneously from both operating levers (**A**) of the ceiling mounting plate to detach the unit from the ceiling mounting plate.

Alternative 2.

Where required, the unit can be detached from the ceiling mounting plate. Lift the unit slightly upwards and push (e.g. with a small screwdriver) both ejector levers (**B**) of the ceiling mounting plate simultaneously to detach the unit from the ceiling mounting plate.

Attic floor feedthrough plate

The attic floor penetration plate (**F**) is optional. When an attic floor penetration plate is used, the tightness of the vapour barrier has to be ensured.

The attic floor penetration plate can be fastened on the finished rear door. The minimum distance of the attic floor penetration plate from the finished side walls is 15 mm.

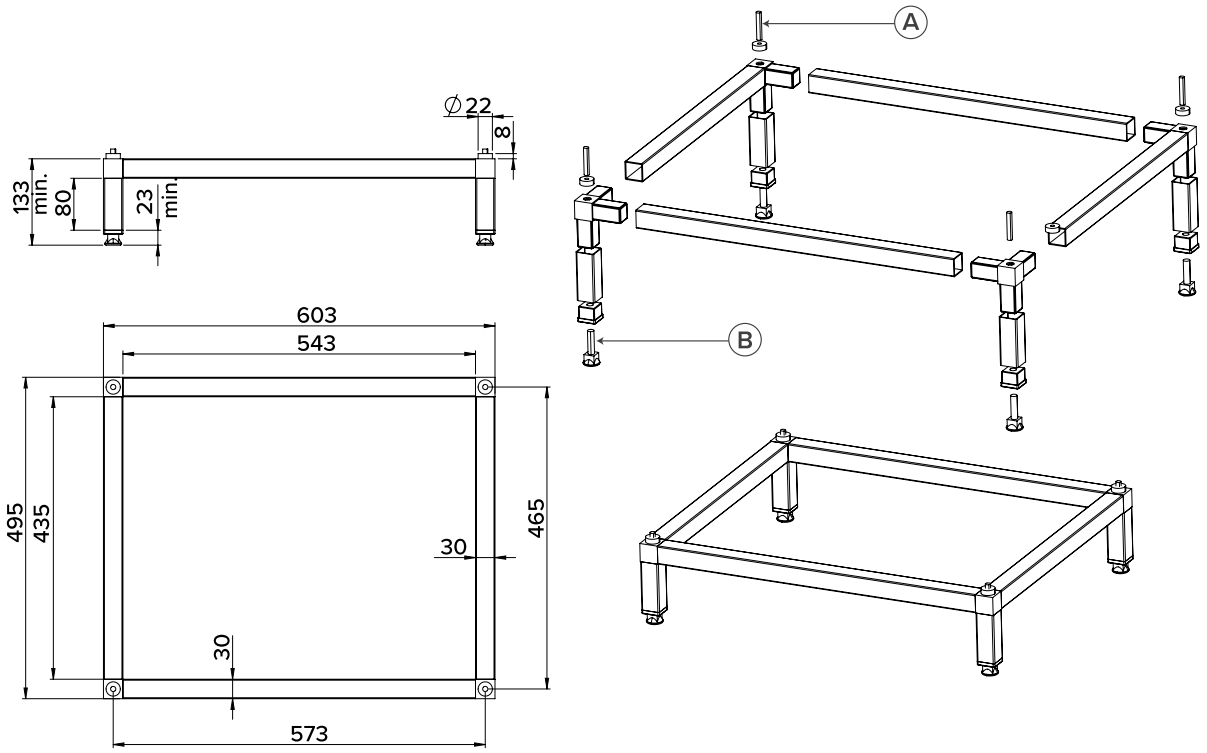
2.3. Mounting on a base

MyVallox 119 CFi must always be installed on a base on the floor, on a wall mounting plate on the wall, and on a ceiling mounting plate on the ceiling.

NOTE: A space of at least 555 mm must be reserved in front of the unit for maintenance purposes.

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

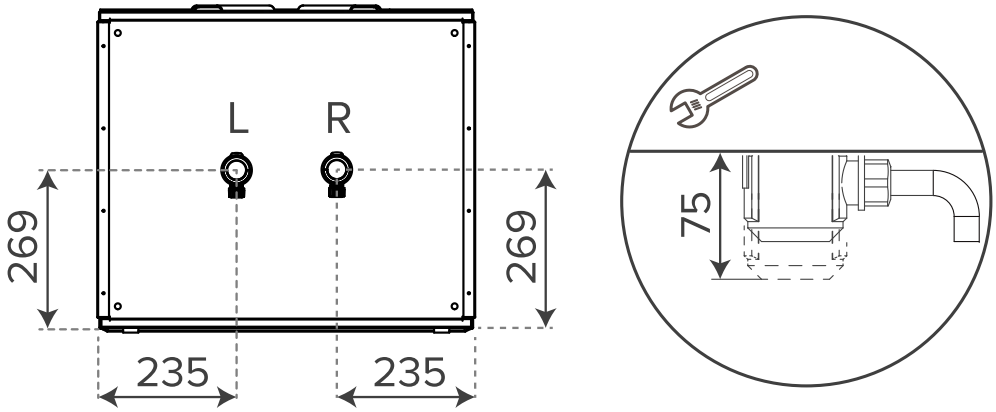
The base is optional. Adjust the base with adjusting legs to level it. Remove the rubber plugs (4 pcs) at the bottom of the unit. Place the unit on top of the base so that the bars of the base fit in the holes at the bottom of the unit. Mount the ventilation unit on the base, as shown in the figure. Make sure that the unit is horizontally level after mounting.



A	Thread bar M8 x 35, shorter thread upward.
B	The length of the adjusting screw is 37 mm.

2.4. Removal of condensing water

Figure 1. Dimensioning figure and space required for installation of the Vallox Silent Klick siphon



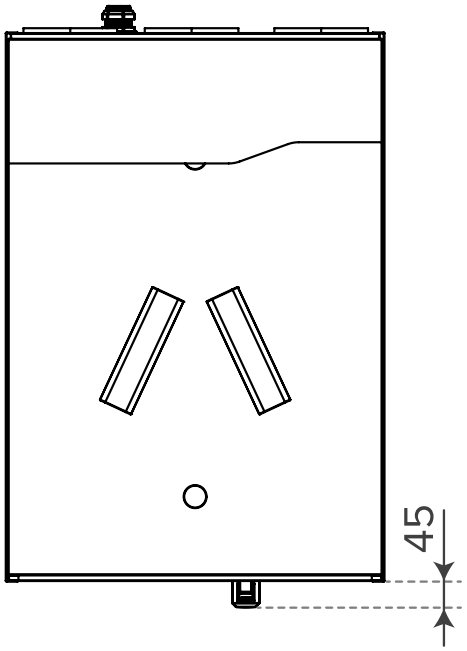
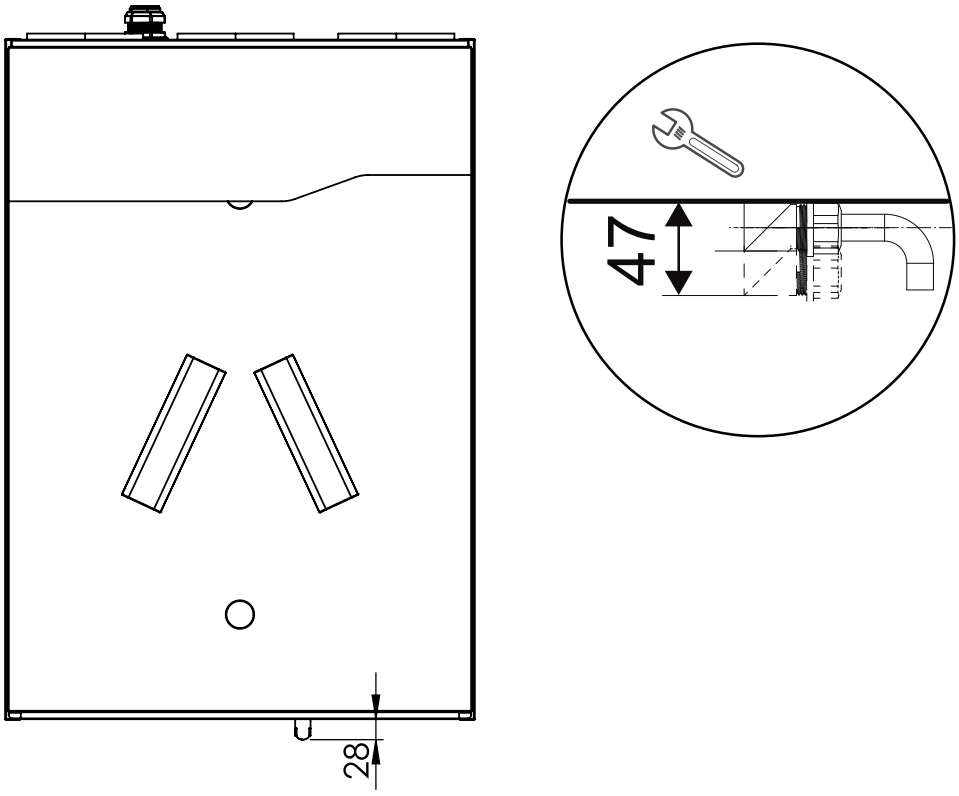


Figure 2. Space required by the alternative Vallox Silent Klick water seal installation method (elbow)



NOTE: The unit comes with the Vallox Silent Klick siphon package. See the instructions for siphon installation in the package or at https://www.vallox.com. When using an alternative siphon installation method, move the washer and locking part to the pipe connection mounted to the wall.

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 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.

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. 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.

3.2. 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

3.3. 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:

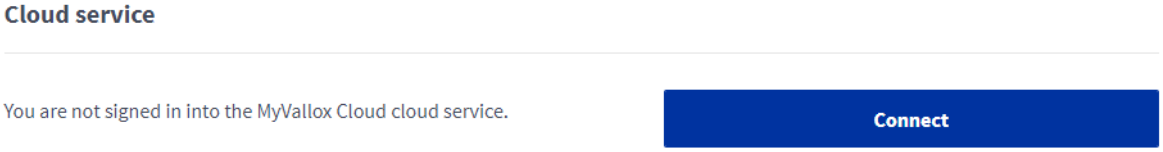
1. Connect one end of the network cable to the grey connector of the Vallox ventilation unit and the other end to the router's LAN port (usually numbered 1,2,3,4). The LAN port must not be bridged, i.e. it must share private IP addresses (addresses that begin with 10.x.x.x, 172.x.x.x or 192.168.x.x).

   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).

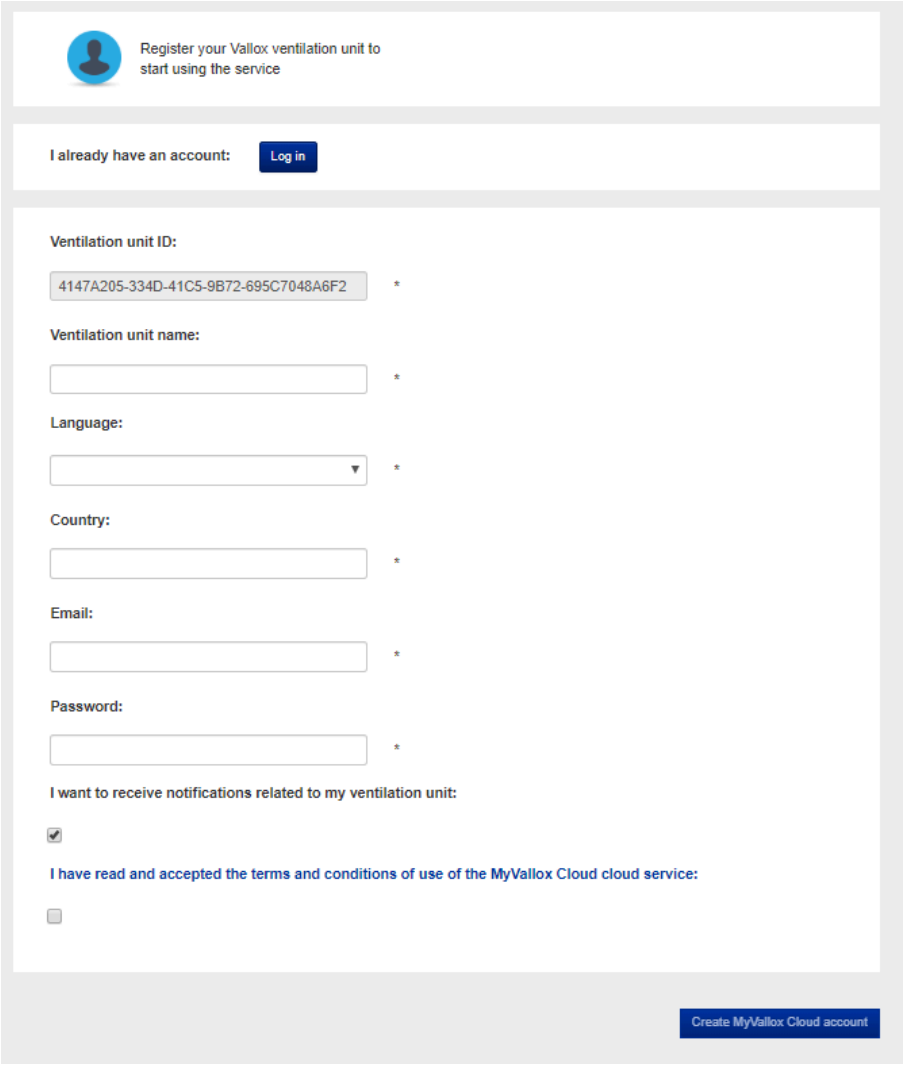
2. Open the computer's network settings by selecting Start → My Computer → Network. You can see a computer icon with the text Vallox and a series of numbers.
   OR

   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.

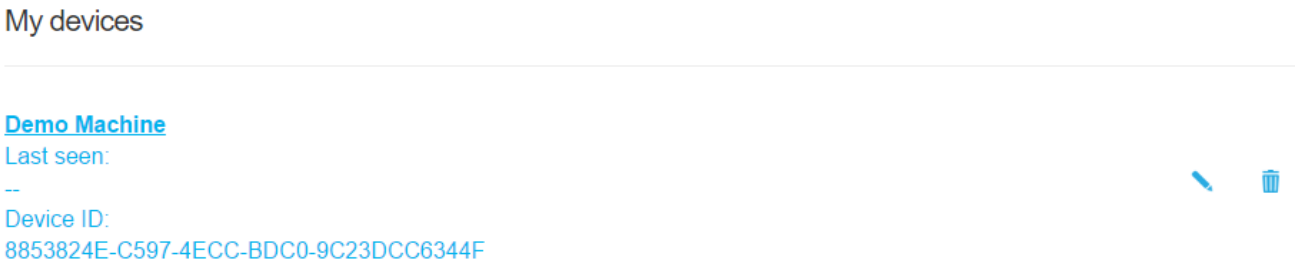


6. Select Connect.
7. The registration page of the MyVallox Cloud service opens.
   The Ventilation unit ID, i.e. the unit's unique identifier, is generated automatically in the field.



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.



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 1. 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.

When the maintenance reminder becomes activated, check the cleanliness of the filters and replace them if required.

The Vallox ventilation unit has three air filters:

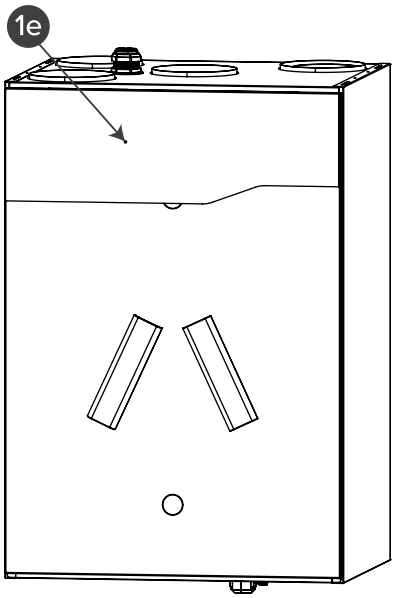
- Coarse filter for supply air filters insects, heavy pollen and other relatively large foreign objects out of the outdoor air.
- Fine filter for supply air filters microscopic pollen and dust particles out of the supply air.
- Coarse filter for extract air filters the extract air and keeps the heat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

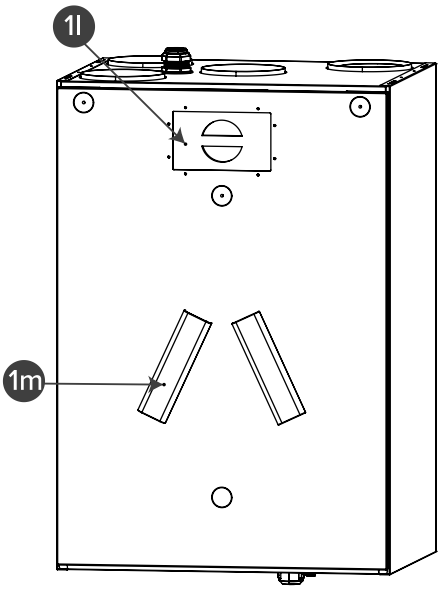
NOTE:
Using original Vallox filters ensures that the ventilation unit remains in top condition, giving the best results. Selection and ordering of filter packages: valloxsuodattimet.fi/en

To replace the filter:

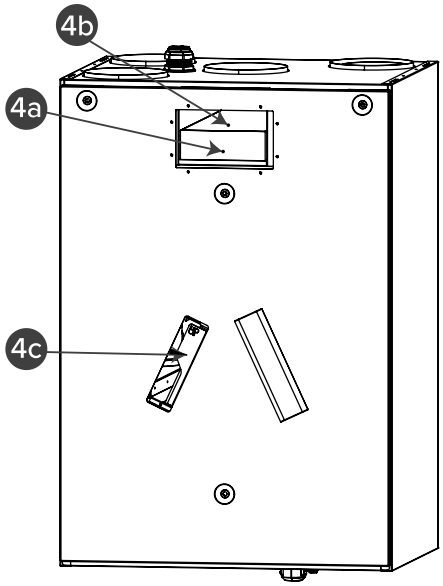
1. Remove the cover panel (**1e**) at the top edge of the Vallox ventilation unit door by pulling the bottom edge of the plate outwards before lifting it off.



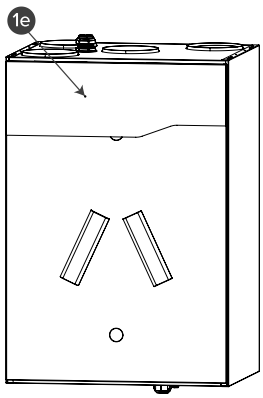
2. Pull the insulation hatch (**1l**) of the supply air filter out by the handles on the hatch. Remove the cover hatch of the extract air filter (**1m**) by pulling the hatch from both ends.

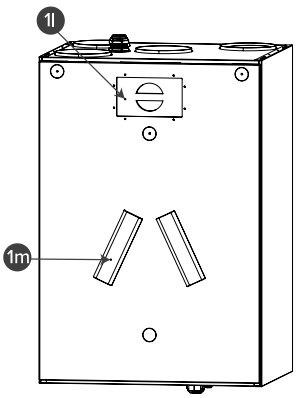


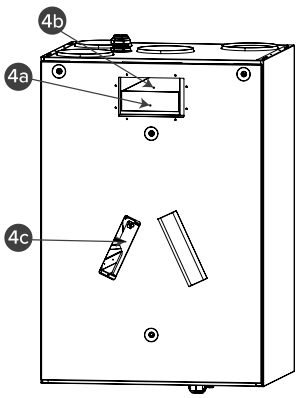
3. Remove the old filters (**4a**), (**4b**) and (**4c**) and dispose of them (do not dispose of the support mesh of the extract air filter).



4. Install the new filters.
5. Install the insulation door (**1l**) of the supply air filter by pressing its edges behind the surface plate of the door. The cover hatch (**1m**) of the extract air filter is installed so that both of its ends are against the door plate.
6. Put the supply air filter cover panel (**1e**) back in place.
7. Reset the maintenance reminder.







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.

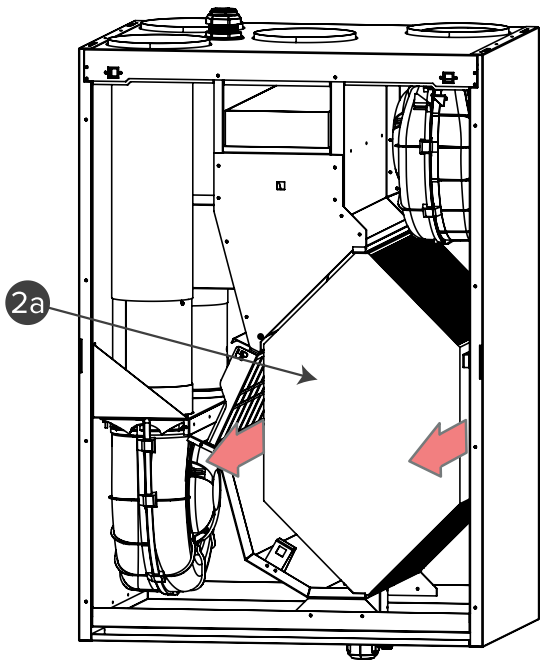
Check that the heat recovery cell is clean roughly once a year, or whenever the filters are being replaced. Clean by washing as required.

To check and clean the heat recovery cell:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Remove the cover hatch of the supply air filter and unscrew the four screws on the door to open the door of the Vallox ventilation unit.
3. Lift the door off.

   ⚠ **CAUTION:** The door is heavy.

4. Grab the sides of the cell (**2a**) and pull the cell from the unit.



> **IMPORTANT:** Handle the cell carefully! For example, do not lift the cell 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, push the cell back in place.
8. Close the door of the unit.
9. Plug the ventilation unit back into the mains.

The heat recovery cell has now been checked and 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.

You can clean the fan blades with compressed air (wear protective goggles) or by brushing them gently.

> **IMPORTANT:**
> The fans are extremely sensitive to external shocks.Handle the fan blades carefully.Do not remove or move the fan blade balancing weights.

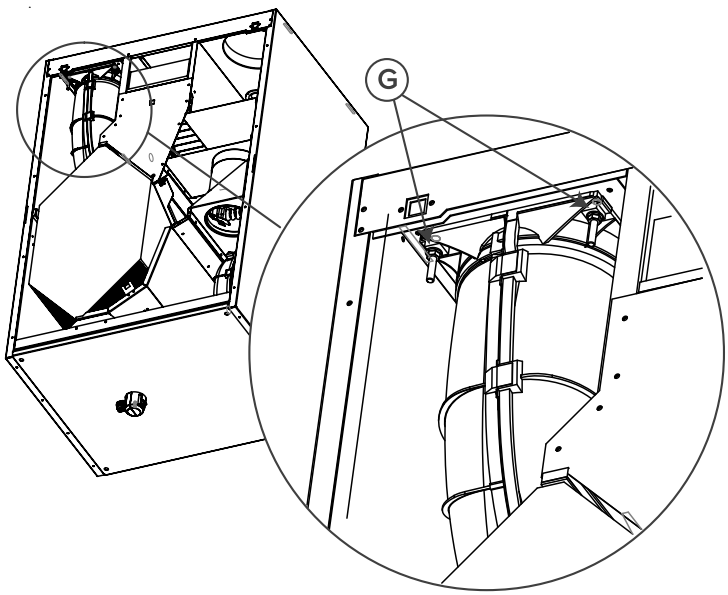
4.3.1. Cleaning the extract air fan

To clean the extract air fan:

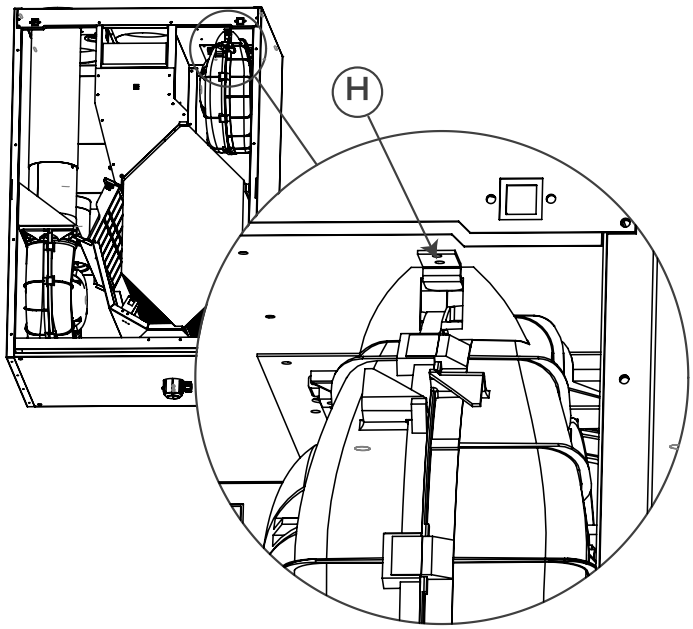
1. Disconnect the ventilation unit from the mains electricity supply.
2. Remove the cover hatch of the supply air filter and unscrew the four screws on the door to open the door of the Vallox ventilation unit.
3. Lift the door off.

> ⚠ **CAUTION:** The door is heavy.

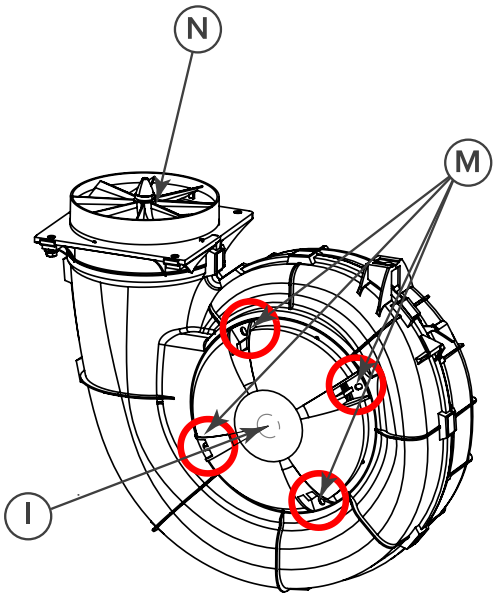
4. Disconnect the fan cable. The mounting flange of the extract air fan is mounted on the ceiling of the unit on the side of the unit's rear door with screws and bolts (R-model). Unscrew the screws (**G**) using a long ø 8 box key. In the R-model, the cell must be removed during fan maintenance. Lower the fan flange downwards until you can detach the flange.



5. On the front door side (R model), the fan is attached to a mount (**H**). Move the fan towards the rear door (R model) until the fan detaches from the unit's ceiling completely.



6. Unscrew the four mounting screws (**M**) to remove the fan's air controller (**I**). You can clean the fan blades with compressed air (wear protective goggles) or by brushing them gently. Do not remove or move the fan blade balancing weights.



The extract air fan has now been checked and cleaned.

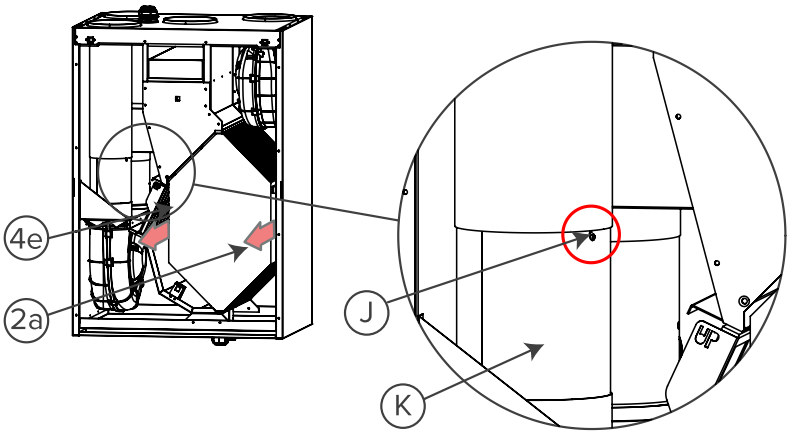
4.3.2. Cleaning the supply air fan

To clean the supply air fan:

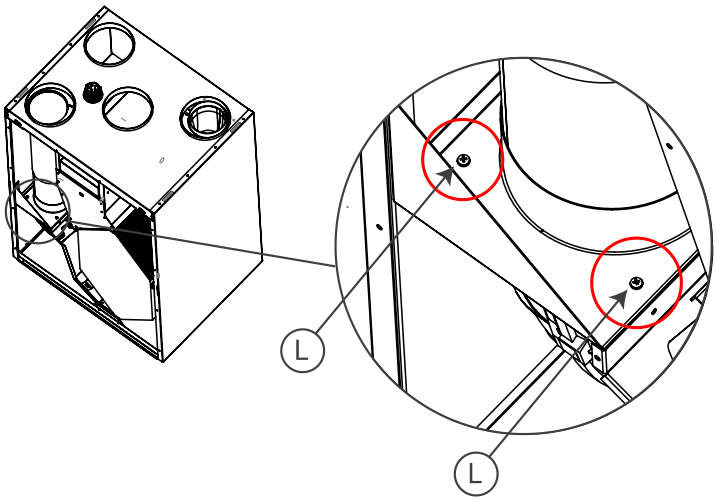
1. Disconnect the ventilation unit from the mains electricity supply.
2. Remove the cover hatch of the supply air filter and unscrew the four screws on the door to open the door of the Vallox ventilation unit.
3. Lift the door off.

> ⚠ **CAUTION:** The door is heavy.

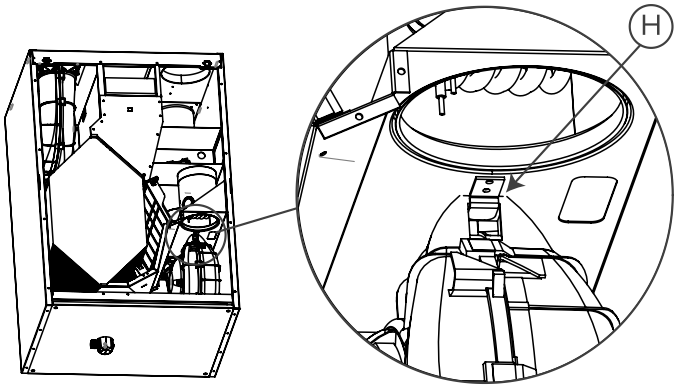
4. Remove the extract air filter (**4e**) and heat recovery cell (**2a**) from the unit. Unscrew the mounting screw (**J**) of the post-heating resistor. Lift and rotate the duct (**K**) of the post-heating resistor.



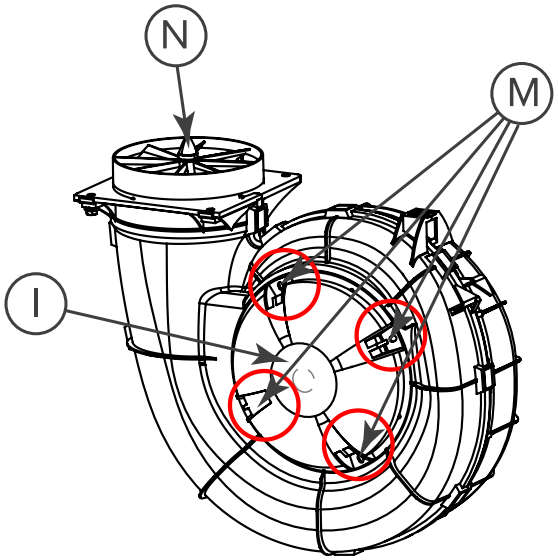
5. Unscrew the fan's two mounting screws TX10 (**L**). They are located in the front edge of the mounting plate (R model).



6. On the rear door side (R model), the fan is attached to a mount (**H**). Move the fan towards the front (R model) until the fan detaches. Disconnect the fan cable.



7. Unscrew the four mounting screws (**M**) to remove the fan's air controller (**I**). You can clean the fan blades with compressed air (wear protective goggles) or by brushing them gently. Do not remove or move the fan blade balancing weights. It is best not to remove the fan's anemometer (**N**) but you can clean it with compressed air.

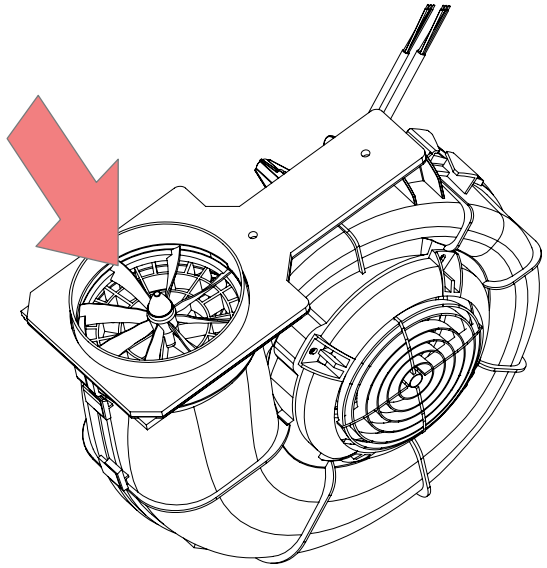


8. To reassemble the ventilation unit, follow the above steps in reverse order.
9. Close the ventilation unit's door.
10. Plug the ventilation unit back into the mains.

The supply air fan has now been checked and cleaned.

4.4. Cleaning the anemometer

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



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

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

4.5. 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.

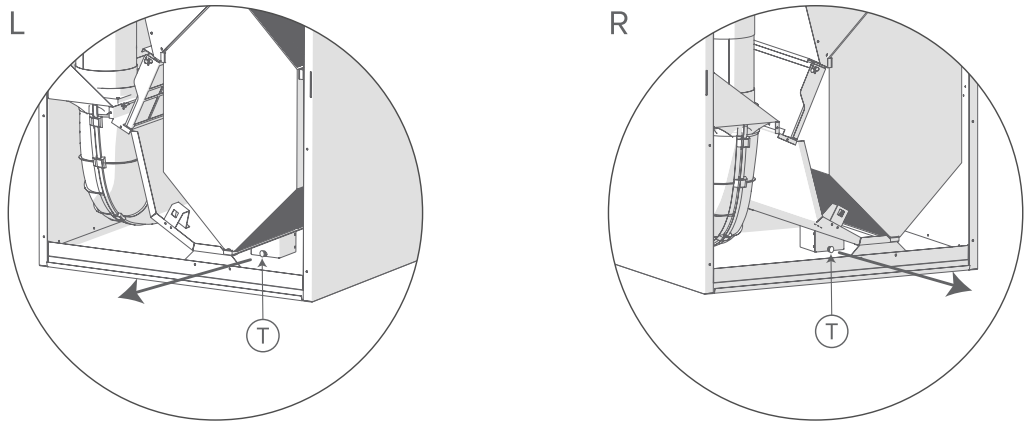
While carrying out maintenance, make sure that the condensing water blocks in the bottom pool are not clogged and that they are not leaking. You can do this in autumn before the start of the heating season, for example. To check that there are no blockages or leaks, pour water into the pool. Unblock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

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

Removal of condensing water in the summer

In certain, quite rare, indoor and outdoor air conditions, condensing water may accumulate at the bottom pool of the unit if the cold recovery has been activated (switched on by default). This may happen, for example, if it is particularly hot and humid outside and noticeably cooler inside.

If excess water accumulates at the bottom, remove the orange plug (T) from the condensing water outlet.



4.6. 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 2. 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	• Check the cords between the unit and the control panel. • Unplug the unit and restart the

Error	Cause	Follow these steps
	problems in data transmission or the control panel is damaged.	unit. • Update the unit software. • Contact the service centre.

5. Technical data

Table 3. Technical data MyVallox 119 CFi, aluminium

Object	MyVallox 119 CFi
Product titles	MyVallox 119 CFi XA
Type code	3780
Electrical connection	230 V, 50 Hz, 12.2 A (power plug)
Enclosure protection class	IP 34
Fans	• Supply air — 0.12 kW 1.0 A EC • Extract air — 0.12 kW 1.0 A EC
Air volumes	• Supply air — 116 dm^3/s, 100 Pa • Extract air — 117 dm^3/s, 100 Pa
Efficiencies*	• Annual efficiency — 84% • Supply air efficiency — 89% • Specific Fan Power (SFP) — 0.83 $kW/m^3/h$ (81 dm^3/s)
Heat recovery bypass	Automatic
Post-heating	Electrical resistor, 900 W
Pre-heating	-
Additional heating	Electrical resistor, 1500 W
Filters	• Supply air — ISO Coarse > 75% + ISO $ePM_1 \geq 60$ % • Extract air — ISO Coarse > 75%
Specific energy consumption (SEC)	In a cold climate — A+ Temperate climate — A+
Dimensions	643 x 932 x 540 mm
Weight	78 kg
Ventilation efficiency control	• MyVallox control panel • MyVallox Home/Cloud user interface • CO_2, %RH, and VOC control • Remote monitoring control (voltage signals, Modbus)
*Working point defined in the Ecodesign Directive (2009/125/EC), Southern Finland, Helsinki-Vantaa TRY year 2020.	

Table 4. Technical data MyVallox 119 CFi, enthalpy

Object	MyVallox 119 CFi enthalpy
Product titles	MyVallox 119 CFi XE
Type code	3781
Electrical connection	230 V, 50 Hz, 12.2 A (power plug)
Enclosure protection class	IP 34
Fans	• Supply air — 0.12 kW 1.0 A EC • Extract air — 0.12 kW 1.0 A EC
Air volumes	• Supply air — 116 dm^3/s, 100 Pa • Extract air — 117 dm^3/s, 100 Pa
Efficiencies*	• Supply air efficiency — 88% • Specific Fan Power (SFP) — 0.85 $kW/m^3/h$ (81 dm^3/s)
Heat recovery bypass	Automatic
Post-heating	Electrical resistor, 900 W
Pre-heating	-
Additional heating	Electrical resistor, 1500 W
Filters	• Supply air — ISO Coarse > 75% + ISO $ePM_1 \geq 60$ % • Extract air — ISO Coarse > 75%
Specific energy consumption (SEC)	In a cold climate — A+ Temperate climate — A+
Dimensions	643 x 932 x 540 mm
Weight	77 kg
Ventilation efficiency control	• MyVallox control panel • MyVallox Home/Cloud user interface • CO_2, %RH, and VOC control • Remote monitoring control (voltage signals, Modbus)
*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 3. Fan supply and extract air volumes, aluminium heat recovery cell

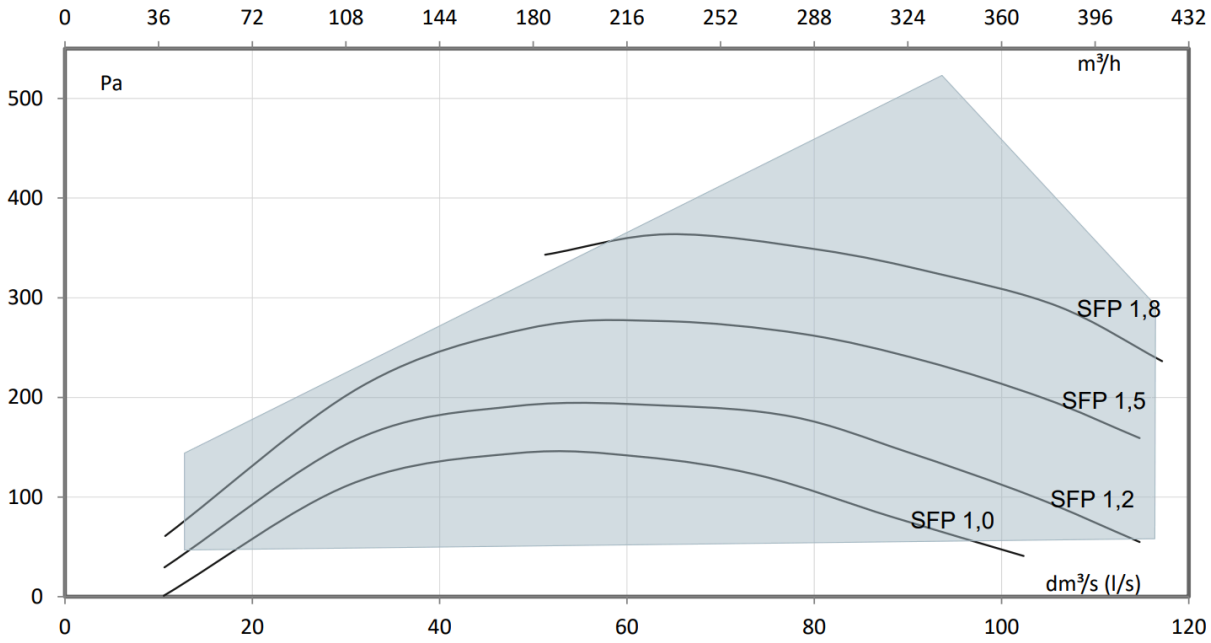
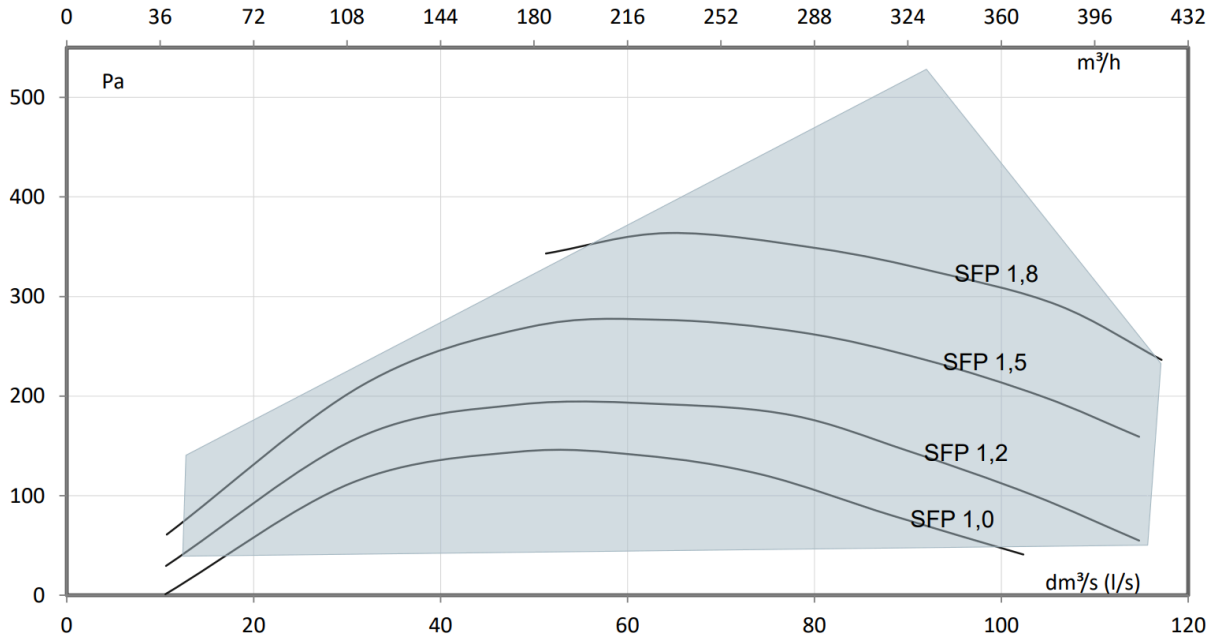


Figure 4. Fan supply and extract air volumes, enthalpy heat recovery cell



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	12	44	77	17
Mid	64	231	210	79
Max	116	418	292	221

Table 6. Input power, enthalpy heat recovery cell

	l/s	m^3/h	Pa	W
Min	12	42	87	19
Mid	63	226	201	70
Max	117	420	233	206

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

5.2. Sound values

Table 7. Sound power level in the supply air duct

Sound power level in the supply air ducts by octave band $L_{W'}$ dB									
Air flow l/s		**15**	**30**	**45**	**60**	**75**	**90**	**105**	**119**
Medium frequency of the octave band Hz	**63**	54	63	62	67	71	75	75	77
	125	50	56	62	65	68	76	73	75
	250	45	51	64	69	71	75	72	73
	500	37	45	54	58	62	67	76	83
	1000	33	39	47	53	57	61	66	68
	2000	19	27	40	48	53	58	61	64
	4000	17	17	25	34	41	47	51	55
	8000	21	21	22	25	31	38	43	48
$L_{W'}$ dB		56	64	68	72	75	81	81	85
$L_{WA'}$ dB(A)		41	48	57	62	65	70	75	80

Table 8. Sound power level in the extract air duct

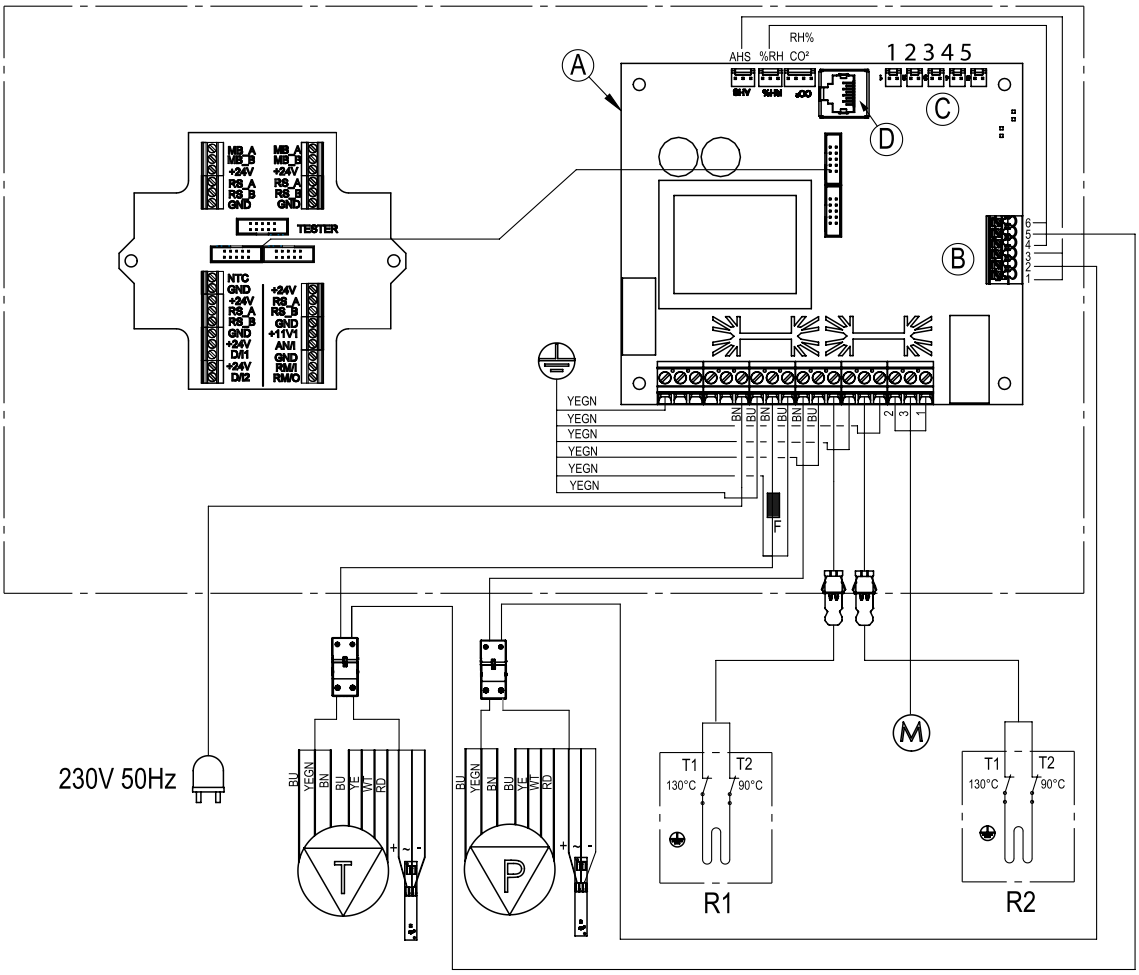
Sound power level in the extract air ducts by octave band $L_{W'}$ dB									
Air flow l/s		**15**	**30**	**45**	**60**	**75**	**90**	**105**	**119**
Medium frequency of the octave band Hz	**63**	49	50	53	64	64	70	73	74
	125	40	47	54	53	55	58	61	62
	250	33	36	45	56	53	55	57	58
	500	24	25	28	32	36	40	44	48
	1000	21	21	22	27	30	35	39	42
	2000	15	15	16	18	22	27	32	35
	4000	17	17	17	17	17	20	24	28
	8000	21	21	21	21	21	21	22	23
$L_{W'}$ dB		50	52	57	65	65	71	74	75
$L_{WA'}$ dB(A)		31	34	41	48	47	50	52	54

Table 9. Sound pressure level coming through the envelope

Sound pressure level coming through the envelope of the unit in the room in which it is installed (10m^2 sound absorption)								
Air flow l/s	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**119**
L_{pA}, dB (A)	22	27	30	33	36	41	43	44

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

5.3. Internal electrical connection



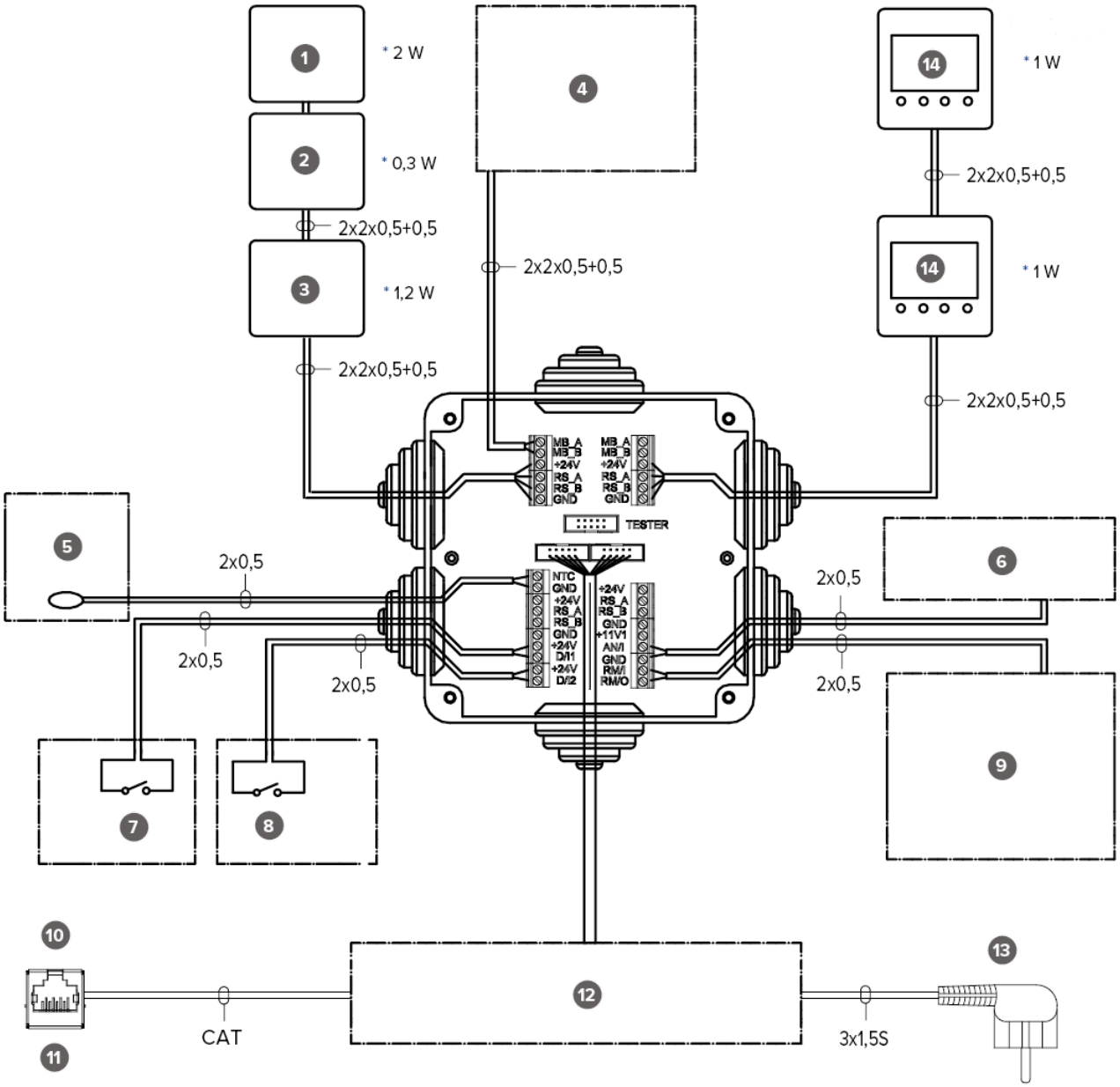
A	Motherboard	**11V1**	11.1 V operating voltage
B	1. Extract air fan tacho (WT) 2. GND (GN) 3. Extract air fan PWM (YE) 4. Supply air fan tacho (WT) 5. GND (GN) 6. Supply air fan PWM (YE)	**AN/I**	Analog input 0–10 VDC

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)	**F**	Choke
GND	Digital and analog ground potential	**M**	Damper motor
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	**R2**	Additional heating resistor with 90°C and 130°C overheating protection

Table 10. 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 connection



* Σ = max. 6 W

1	MyVallox VOC sensor	8	Digital input 2
2	MyVallox %RH sensor	9	Potential-free contact data 24VDC. Can be programmed to display, for example, error notifications or the HR cell's

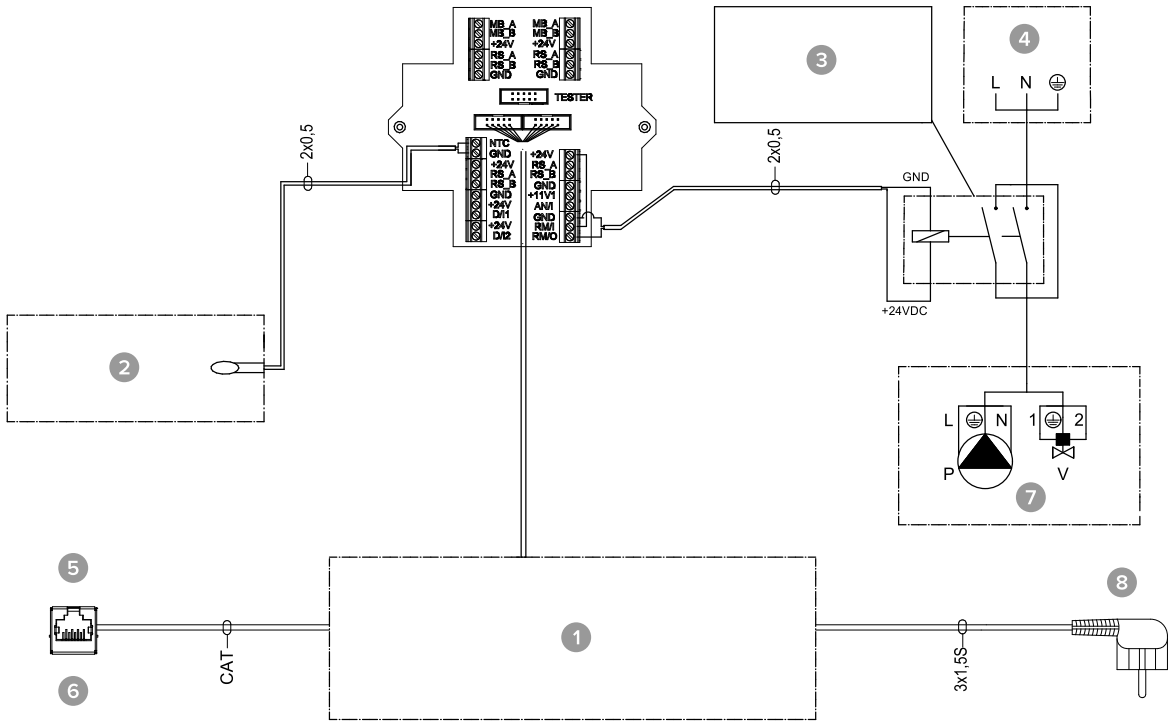
			bypass status.
3	MyVallox CO_2 sensor	10	Ethernet connection on top of the unit
4	Remote monitoring Modbus RTU	11	RJ45 female
5	External temperature sensor NTC 47K	12	Internal connection of the ventilation unit
6	Analog input. Two separate functions.	13	Plug connection Plug connection 1.2 m on top of the unit
7	Digital input 1	14	MyVallox control panel

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 11. 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

5.5. 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 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		

5.6. 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 5. Duct radiator operation chart in the outdoor air duct

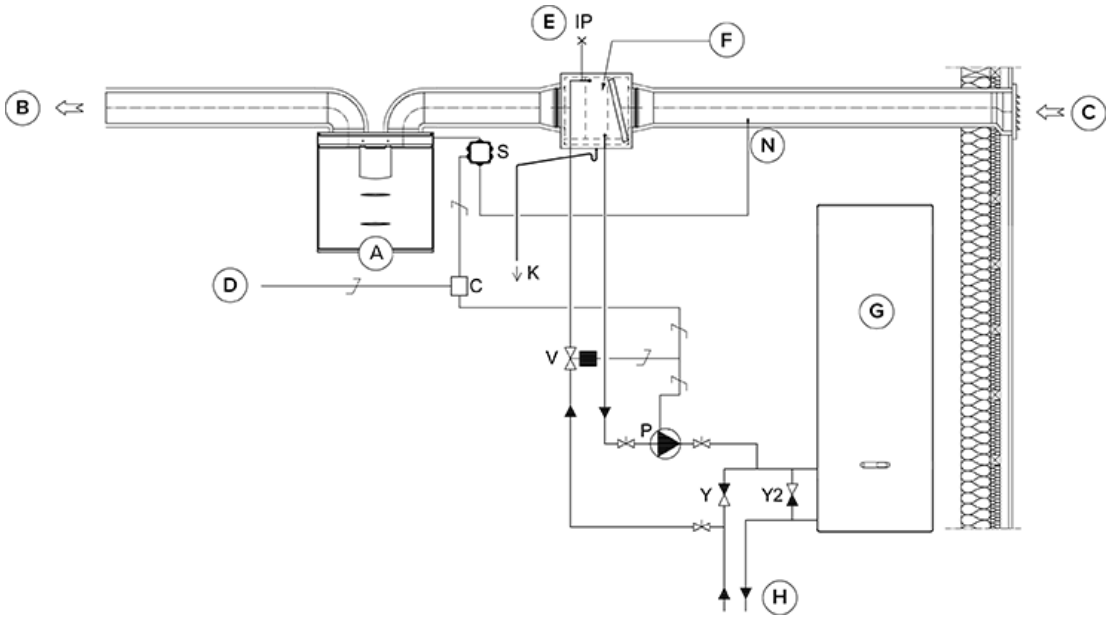
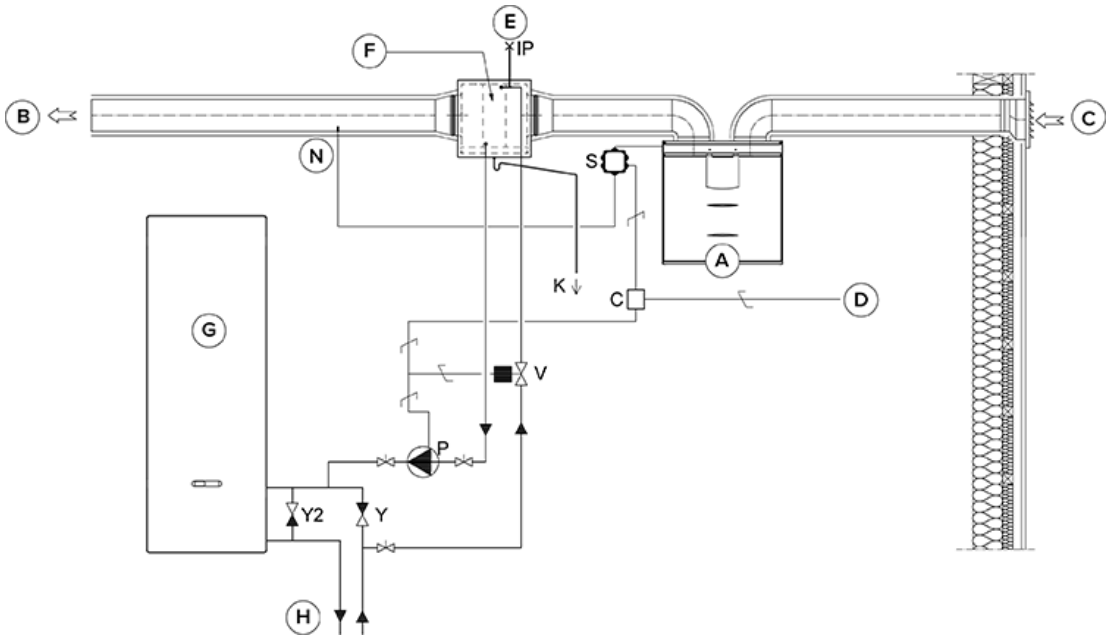


Figure 6. Duct radiator operation chart in the supply air duct



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.		

5.7. Dimensions and duct outlets

Figure 7. Dimensions and duct outlets Vallox 119 CFi R

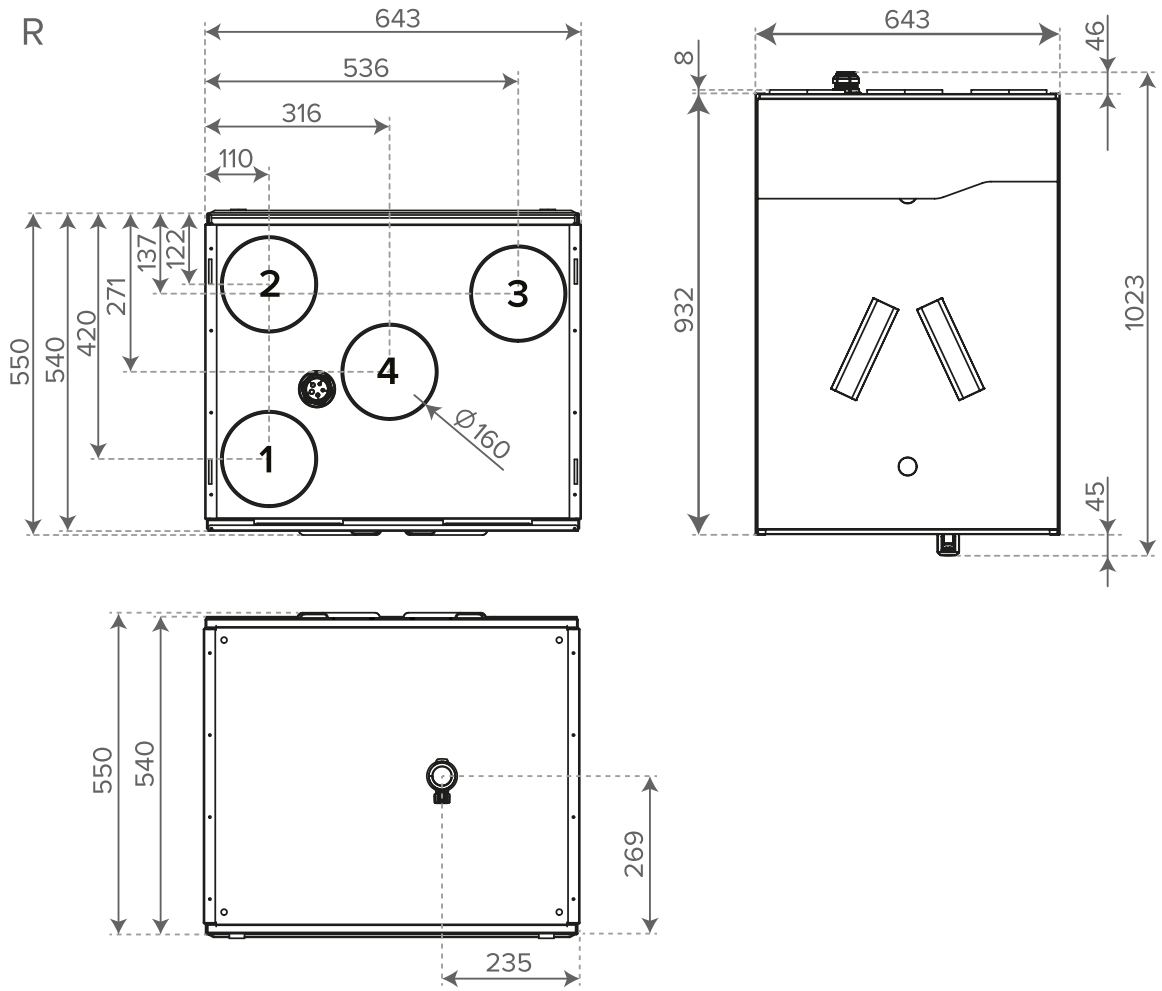
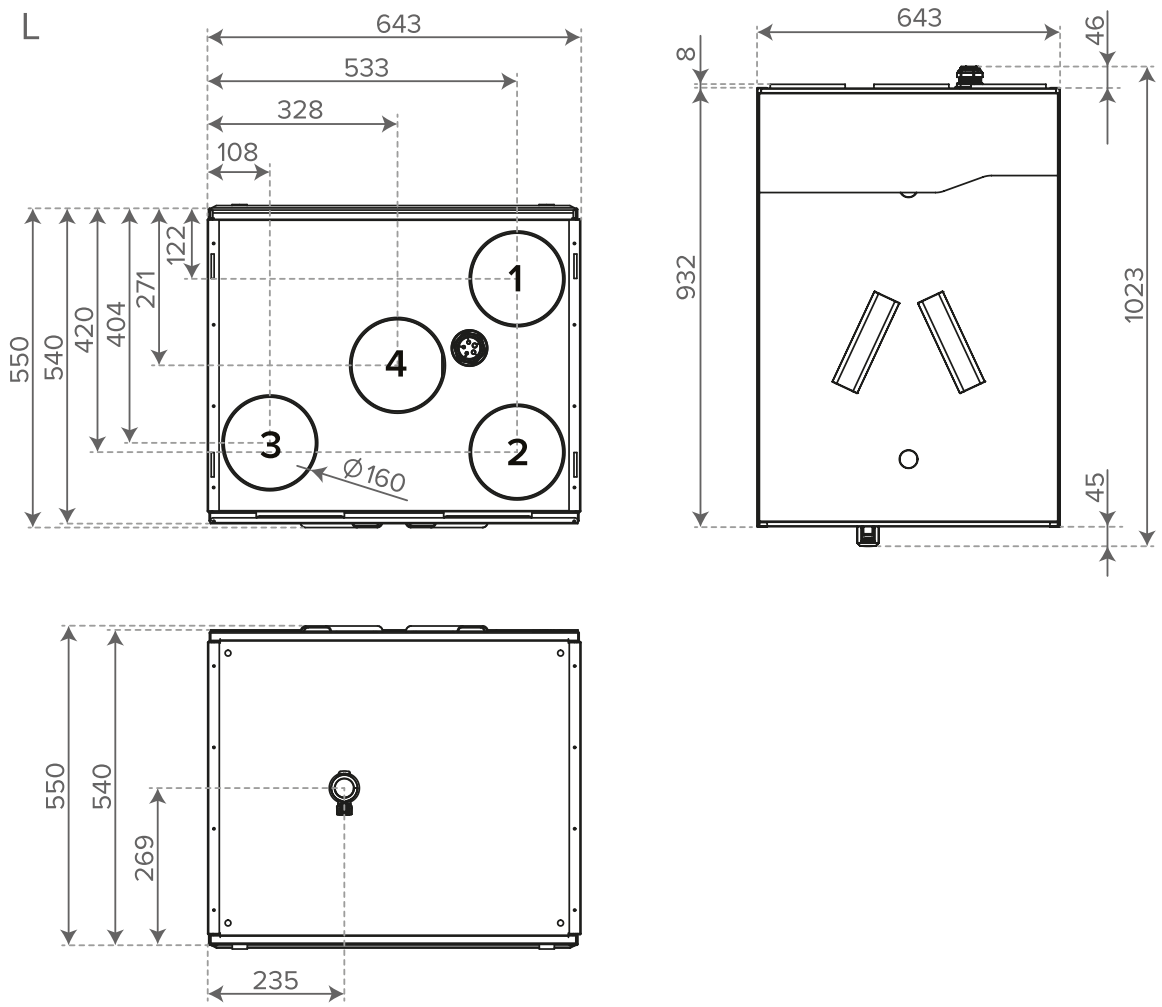


Figure 8. Dimensions and duct outlets Vallox 119 CFi L

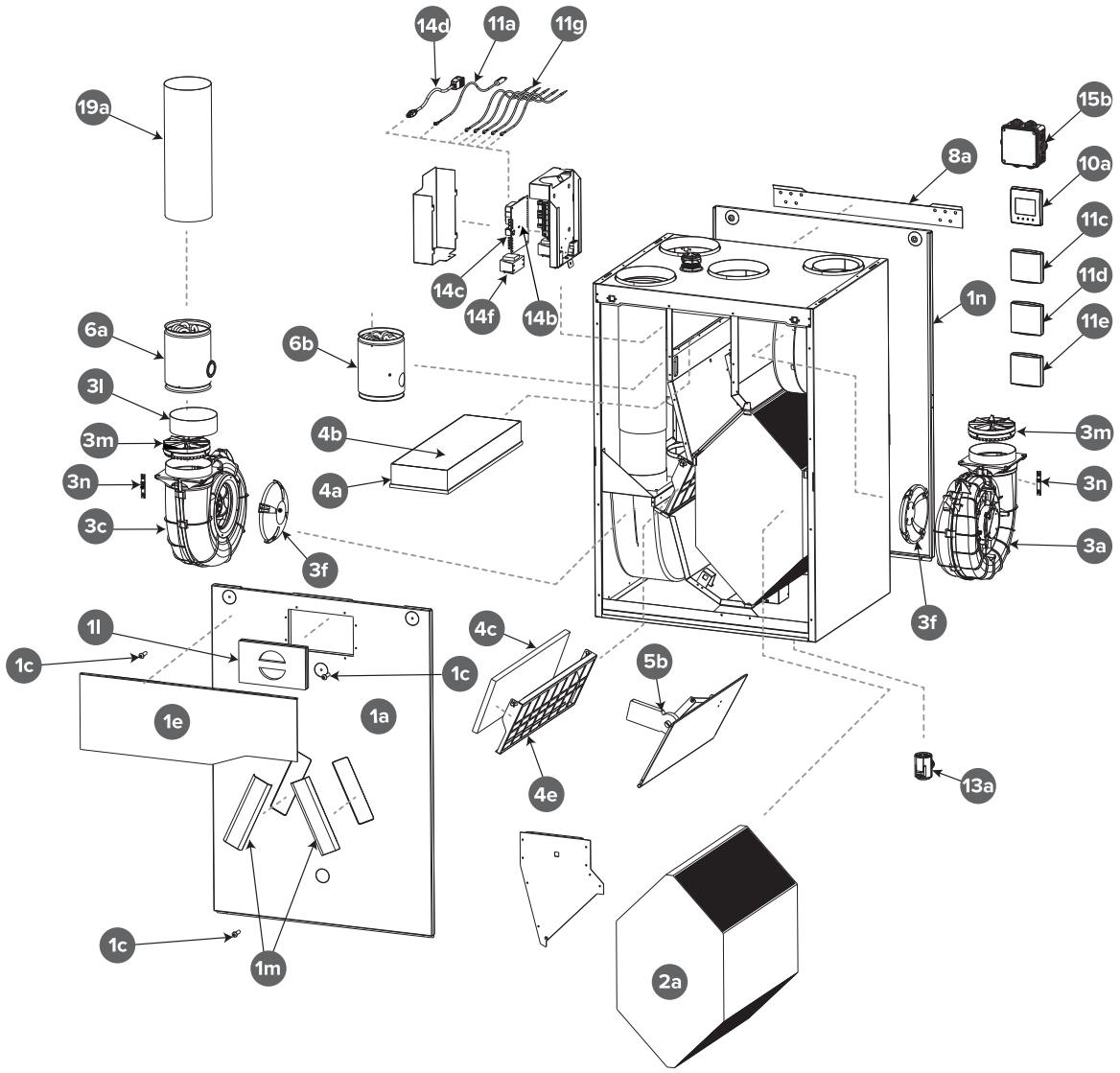


Duct outlets

Inner diameter of the female outlet collar: 160 mm

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

6. Exploded view and list of spare parts



NO.	Part	NO.	Part
1a	Door	6a	Post-heating assembly
1c	Door screw hexagon head screw ISO 7380-1 10.9 Zn	6b	Additional heating assembly
1e	Filter hatch cover panel	8a	Wall mounting plate

NO.	Part	NO.	Part
1l	Supply air filter hatch seal	10a	Control panel
1m	Extract air filter hatch seal	11a	Internal humidity and carbon dioxide sensor
1n	Rear door	11c	MyVallox carbon dioxide sensor (optional)
2a	HR cell	11d	MyVallox humidity sensor (optional)
3a	Extract air fan	11e	MyVallox VOC sensor (optional)
3c	Supply air fan	11 g	NTC sensor kit
3l	Supply air fan collar	13a	Siphon Vallox Silent Klick
3m	Anemometer	14b	Motherboard
3n	Hall sensor circuit board	14c	Glass tube fuse 63mA slow 5x20mm
4a	Fine filter for supply air	14d	RJ-45 extension cable
4b	Coarse filter for supply air	14f	Choke
4c	Coarse filter for extract air	15b	Connection box
4e	Filter frame	19a	Supply air outlet
5b	Bypass damper actuator		

NOTE: If the fan's anemometer or the Hall sensor's circuit board breaks during the unit's warranty period, the entire fan must be replaced. After the warranty period, only the fan's anemometer and/or the Hall sensor's circuit board can be replaced instead of the entire fan.

7. Declaration of Conformity

VALLOX

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/270/370/510/850 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, 3rd March 2025

Jukka-Pekka Korja
Managing Director

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