

VALLOX

MyVallox

Model

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

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3.2.2015

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7.6.2017

Manual



Vallox TSK
Multi50_{MV}

Vallox TSK
Multi80_{MV}



Vallox
90_{MV}

Vallox
90K_{MV}



Vallox
096_{MV}

Vallox
110_{MV}

Vallox
145_{MV}

Vallox
245_{MV}

Ventilation units

SAFETY

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

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

Installation

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

GUARANTEE

The guarantee and liability exclude damage resulting from:

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

INTENDED USE

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



IMPORTANT

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

DISPOSAL OF THE VENTILATION UNIT

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



NOTE

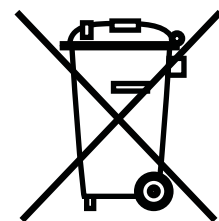
For further information, go to www.vallox.com



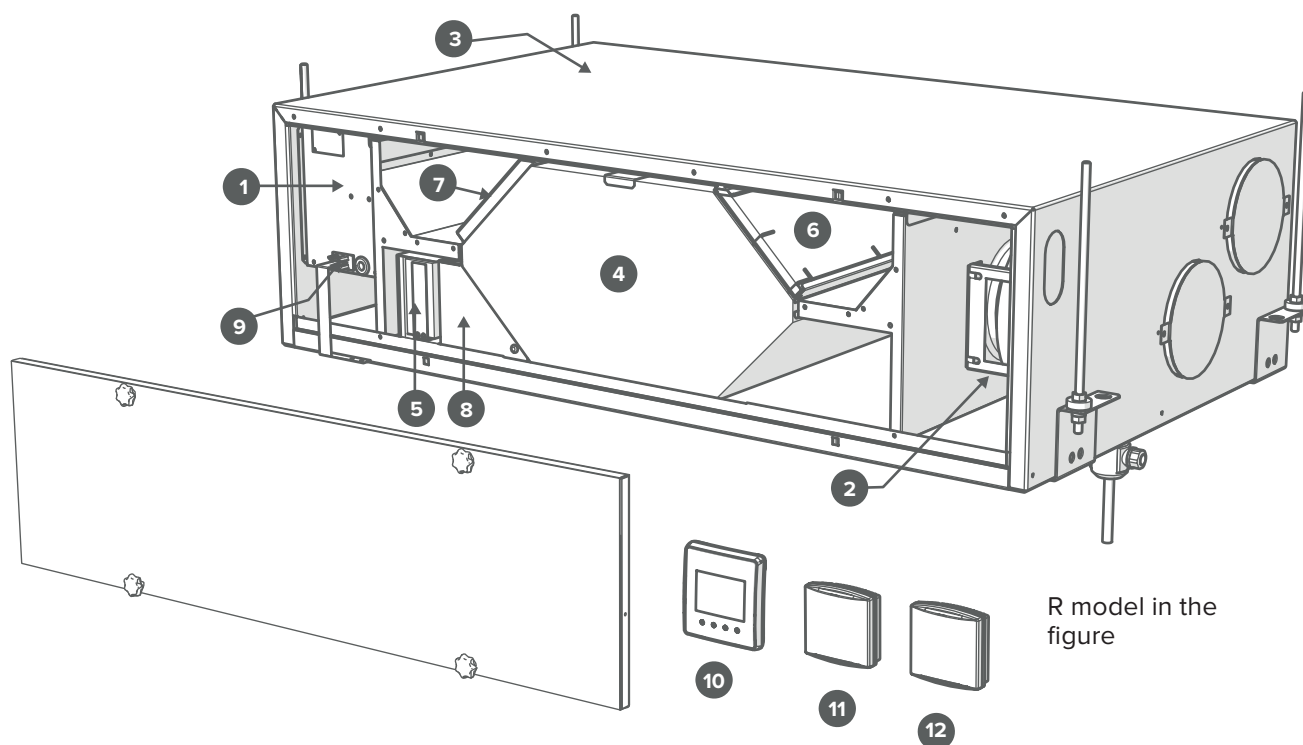
WARNING

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

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



MAIN PARTS

Vallox TSK
Multi80_{MV}Vallox TSK
Multi50_{MV}VALLOX TSK MULTI 50 MV AND
VALLOX TSK MULTI 80 MV

Supply air fan

1



Extract air fan

2



Post-heating radiator

3



Heat recovery cell

4



Supply air filter F7

5



Supply air filter G4

6



Extract air filter G4

7



Bypass flap

8



Safety switch

9



Control panel

10



Carbon dioxide sensor

11



Humidity sensor

12

TROUBLESHOOTING



NOTE

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

FAULT	CAUSE	MEASURES
Error message: Extract air fan stopped	The extract air fan has stopped.	Make sure that the fan is not running. The fan cabling and operation must be checked, and if necessary the fan must be replaced. Contact the service centre.
Error message: Supply air fan stopped	The supply air fan has stopped.	Make sure that the fan is not running. The fan cabling and operation must be checked, and if necessary the fan must be replaced. Contact the service centre.
Error message: Temperature sensor 1/2/3/4/5	The temperature sensor indicated on the user interface is damaged.	The sensor installation must be checked, and if required the sensor must be replaced. Contact the service centre.
Error message: Bus fault	Problems with the data transfer bus.	Make sure that the Modbus bus is connected correctly, and that the devices connected to it are properly functioning.
The ventilation unit is not working; the control panel is not working.	Power input to the unit is lost or the safety switch catch of the door is not touching the safety switch.	Check: • Fuse in the fuse box • Fuse in the unit • Press the safety switch all the way down and test if the unit can be turned on. If the unit can be turned on, ensure that the safety switch catch is touching the safety switch.
The ventilation unit is working, but the control panel is not working.	Either the control panel 24 VDC power is lost, there is a problem with data transmission, or the control panel is damaged.	Check the cables from the unit to the control panel. Contact the service centre if necessary.

CONDENSING WATER (USER)

In the heating season, the extract air humidity condenses to water. In new buildings, condensation runoff can form rapidly. Condensed water must be able to freely leave the unit.

At some time before the heating season begins (e.g. during autumn maintenance), check that the water seal or the condensing water outlet in the bottom pool are not clogged. To check this, pour some water into the pool. Clean as required.



NOTE

Some condensing water may have accumulated in the bottom pool of the unit; this is normal and requires no corrective action.



WARNING

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

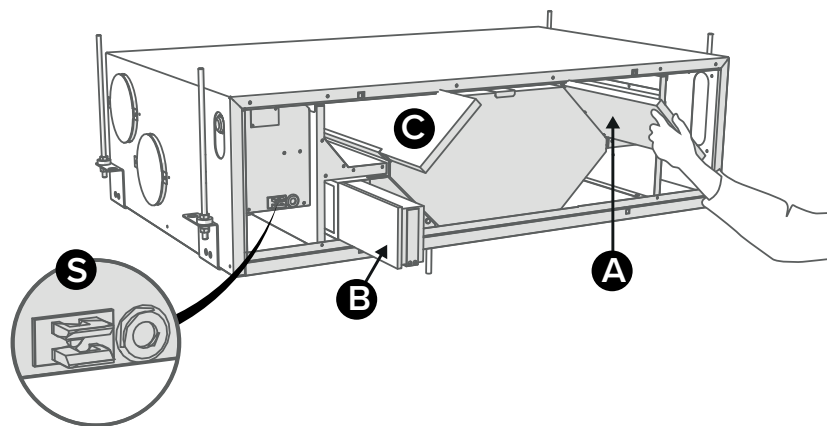
BEFORE BEGINNING MAINTENANCE WORK

The safety switch (S) automatically turns off the power when the door of the unit is opened.



WARNING

Always disconnect the power plug before starting the ventilation unit maintenance.



There are two unit models, left- (L) and right-handed (R). In the right handed version, outdoor air blows into the unit from the right side of the centre line as shown in the instructions. In the left handed version, outdoor air blows into the unit from the left side. Also the position of the filters, bypass flap, and heating radiator is mirrored in the left-handed model.

REPLACING THE FILTERS (USER)

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

The ventilation unit has three air filters:

- Class G4 coarse filter (A) filters insects, heavy pollen and other relatively large foreign objects out of the outdoor air.
- Class F7 fine filter (B) filters microscopic pollen and dust particles out of the supply air.
- Class G4 coarse filter (C) filters the extract air and keeps the heat recovery cell clean.

To replace the filters:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Open the door of the unit.
3. Lift the door off.
4. Remove the old filters (A, B, C) and discard them.
5. Install the new filters (A, B, C).
6. Close the door of the unit. Ensure that the safety switch catch of the door is touching the safety switch, allowing the unit to be turned on.
7. Plug the ventilation unit back into the mains.
8. The filters have now been successfully replaced.



NOTE

Using original Vallox filters ensures that the ventilation unit remains in top condition, giving the best results. The filter replacement interval depends on the ambient dust concentration. It is recommended that the filters be replaced every spring and autumn, or at the very least once a year.

CLEANING THE HEAT RECOVERY CELL (USER)

Check that the heat recovery cell (D) is clean roughly once a year when the filters are being replaced. Clean by washing as required.

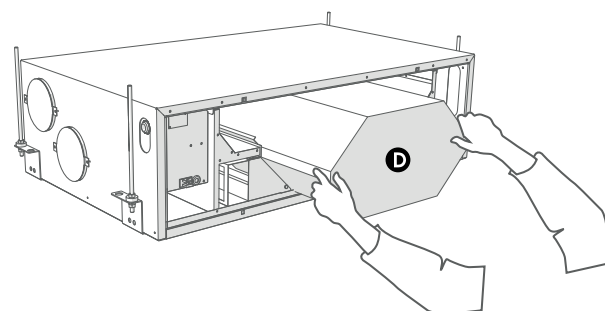
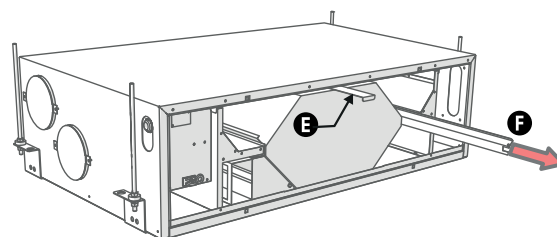


IMPORTANT

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

To check the heat recovery cell (HR cell):

1. Disconnect the ventilation unit from the mains electricity supply.
2. Lift the latch to open the door of the ventilation unit.
3. Lift the door off.
4. Pull the G4 filters (A, C) and filter supports out of the unit.
5. Remove the sealing strip (E) above the heat recovery cell.
6. Remove the side sealing strip (F).
7. Remove the G7 filter (B).
8. Lift and pull the cell (D) out of the unit.
9. 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.
10. Rinse the cell clean with a water spray. Do not use a high-pressure cleaner.
11. When all the water has drained from between the layers, reassemble the ventilation unit in the reverse order.
12. Close the door. Ensure that the safety switch catch of the door is touching the safety switch.
13. Plug the ventilation unit back into the mains.
14. The heat recovery cell has now been checked and cleaned.



IMPORTANT

If the unit has an enthalpy cell, it must not be washed. Only aluminium or plastic cells can be washed.

CLEANING THE FANS (INSTALLER)

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. Do not remove or move the fan blade balancing weights.



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. Remove the fan beds and the bypass duct carefully in accordance with the below instructions to prevent damage to the unit. The small size of the unit restricts the space available for servicing.



IMPORTANT

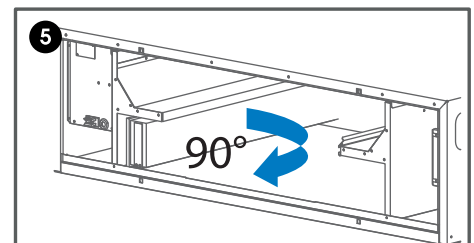
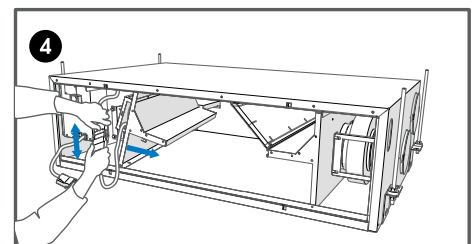
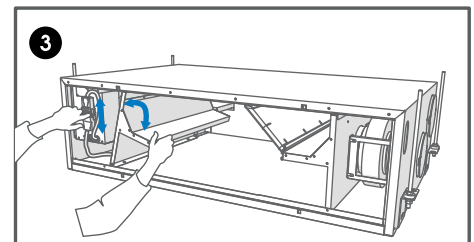
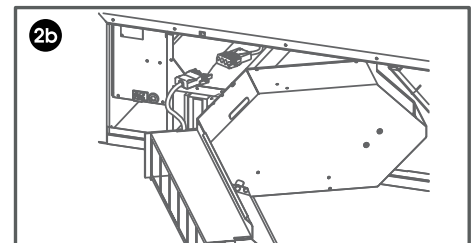
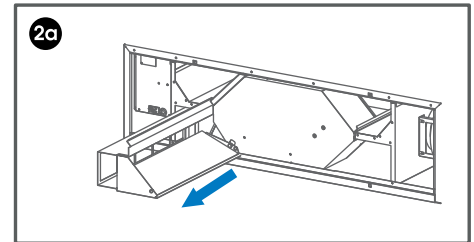
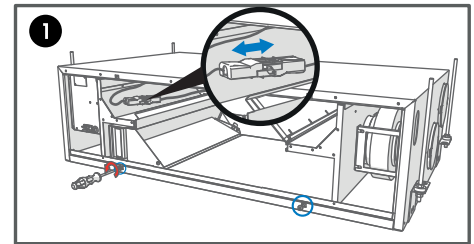
Handle the fan blades carefully. Do not remove or move the fan blade balancing weights.

Cleaning the supply air fan

The steps are mirrored for the left handed unit.

To remove and clean the supply air fan:

1. Disconnect the ventilation unit from the mains electricity supply.
2. Unfasten the four screws to open the door of the unit.
3. Lift the door off.
4. Remove the extract air filter (C), the cell top bracket (E) and the heat recovery cell (D), as described in sections "Filters" and "Heat recovery cell".
5. Remove the mounting screws of the fan bed (2 pcs).
6. Pull the bypass duct/filter stand package out of the unit and turn to the right.
7. Remove the cable connector (black) of the fan and move the supply air fan slightly to the right.
8. Remove the post-heating radiator connector. The post heating radiator connector can be removed once the supply air fan has been moved slightly to the right.
9. Tilt the supply air fan to the right and push the connectors out of the way. Turn the fan 90° and tilt it forward to pull it out of the unit.
10. The fan has now been removed for cleaning.
11. To reassemble the ventilation unit, follow the above steps in reverse order.
12. Close the door. Ensure that the safety switch catch of the door is touching the safety switch.
13. Plug the ventilation unit back into the mains. The fan has now been checked and cleaned.



NOTE

The steps are mirrored for the left handed unit.

Cleaning the extract air fan

To remove and clean the extract air fan:

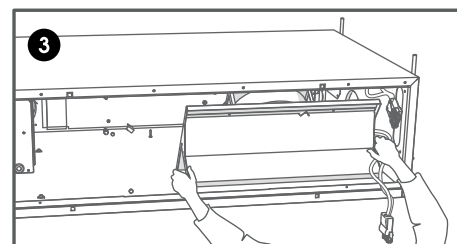
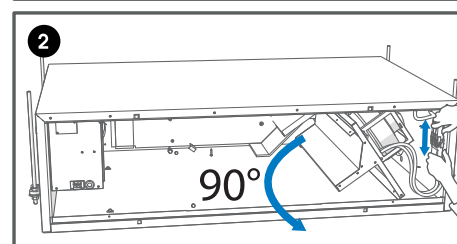
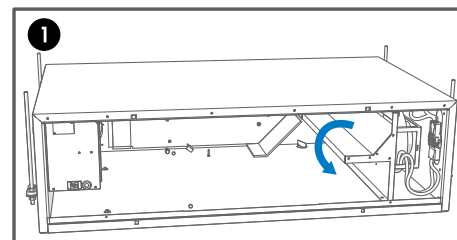
1. Disconnect the ventilation unit from the mains electricity supply.
2. Lift the latch to open the door of the ventilation unit.
3. Lift the door off.
4. Remove the extract air filter (C), the cell top bracket (E) and the heat recovery cell (D), as described in sections "Filters" and "Heat recovery cell".
5. Remove the fan bed mounting screw (see removing the supply air fan, Figure 1).
6. Remove the connector package from the wall.
7. Separate the connectors from each other.
8. Tilt the fan to the left and turn 90°.
9. Tilt the fan forward to pull it out of the unit.
10. The fan has now been removed for cleaning.
11. To reassemble the ventilation unit, follow the above steps in reverse order.
12. Close the door. Ensure that the safety switch catch of the door is touching the safety switch.
13. Plug the ventilation unit back into the mains.

The fan has now been checked and cleaned.



NOTE

The steps are mirrored for the left handed unit.



NOTE

Install the fan beds in a reverse order.