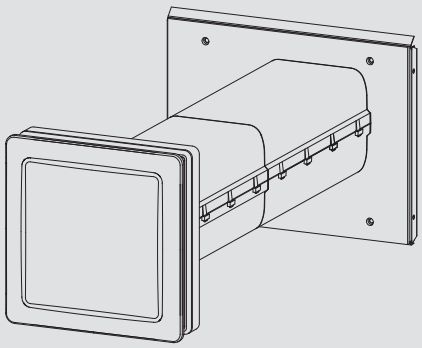
OPERATION AND INSTALLATION

Decentralised ventilation unit with heat recovery

» VLR 70 L Trend EN
» VLR 70 S Trend EN



STIEBEL ELTRON

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GUARANTEE | ENVIRONMENT AND RECYCLING

FILTER CHANGE REPORT

SPECIAL INFORMATION

- The appliance may be used by children aged 8 and older and persons with reduced physical, sensory or mental capabilities or a lack of experience and know-how, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the potential risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.
- Observe all applicable national and regional regulations and instructions during installation.
- Observe minimum clearances (see chapter "Preparations / Installation site").
- The connection to the power supply must be in the form of a permanent connection. Ensure the appliance can be separated from the power supply by an isolator that disconnects all poles with at least 3 mm contact separation.
- Observe the fuse protection required for the appliance (see chapter "Specification / Data table").

OPERATION

1. General information

The chapters "Special information" and "Operation" are intended for both users and qualified contractors.

The chapter "Installation" is intended for qualified contractors.

Note
Read these instructions carefully before using the appliance and retain them for future reference.
Pass on the instructions to a new user if required.

1.1 Safety instructions

1.1.1 Structure of safety instructions

KEYWORD Type of risk
Here, possible consequences are listed that may result from failure to observe the safety instructions.
▶ Steps to prevent the risk are listed.

1.1.2 Symbols, type of risk

Symbol	Type of risk
	Injury
	Electrocution
	Burns (burns, scalding)

1.1.3 Keywords

KEYWORD	Meaning
DANGER	Failure to observe this information will result in serious injury or death.
WARNING	Failure to observe this information may result in serious injury or death.
CAUTION	Failure to observe this information may result in non-serious or minor injury.

1.2 Other symbols in this documentation

Note
General information is identified by the adjacent symbol.
▶ Read these texts carefully.

Symbol	Meaning
	Material losses (appliance damage, consequential losses and environmental pollution)
	Appliance disposal

▶ This symbol indicates that you have to do something. The action you need to take is described step by step.

Symbol	Meaning
	LED off
	LED flashes
	LED illuminates

1.3 Units of measurement

Note
All measurements are given in mm unless stated otherwise.

1.4 Standardised output data

Information on determining and interpreting the specified standardised output data

Standard: EN 13141-8

The output data specifically mentioned in text, diagrams and technical datasheets has been determined in line with the test conditions described in the standard shown in the heading of this chapter.

Generally, these standardised test conditions will not fully meet the conditions found at the installation site of the system user. Depending on the chosen test method and the extent to which the selected method deviates from the conditions described in the standard shown in the heading of this chapter, any deviations can have a considerable impact. Additional factors that have an influence on the test values are the measuring equipment, the system configuration, the age of the system and the flow rates.

A confirmation of the specified output data can only be obtained if the conditions applicable to the relevant test match those of the standard shown in the heading of this chapter.

2. Safety

2.1 Intended use

The appliance is a decentralised ventilation unit with heat recovery. The appliance is designed for the ventilation of individual rooms or partial ventilation of apartments. The appliance is built into the external wall.

The appliance is intended for domestic use. It can be used safely by untrained persons. The appliance can also be used in non-domestic environments, e.g. in small businesses, as long as it is used in the same way.

Any other use beyond that described shall be deemed inappropriate. Observation of these instructions and of the instructions for any accessories used is also part of the correct use of this appliance.

2.2 Incorrect use

The appliance is not suitable for ventilating rooms with stringent requirements for low germ levels.

The appliance must not be used in systems with aggressive or corrosive gases. The air must be free from hazardous substances.

This appliance is not suitable for drying out buildings.

2.3 General safety instructions

We guarantee trouble-free function and operational reliability only if original accessories and spare parts intended for the appliance are used.

WARNING Injury
The appliance may be used by children over 8 years of age and persons with reduced physical, sensory or mental capabilities or a lack of experience and expertise, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the potential risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.

WARNING Injury
If there is a radio or police announcement ordering windows and doors to be kept closed, disconnect the appliance from the power supply.
Close the internal panel if it is not closed.
► Carefully push the internal panel towards the wall until the internal panel is closed.

WARNING Injury
Operating the appliance with a partially installed fan unit may cause injury or may damage the appliance.

WARNING Injury
The discharged cold air can cause condensation to be formed in the vicinity of the air discharge.
► Ensure that no risk of slipping due to wet conditions or ice formation occurs on adjacent footpaths and driveways at low temperatures.

Material losses
Operating the appliance during the building/renovation phase may damage the appliance.
Never commission the appliance before the building phase is complete.

2.4 Test symbols

See type plate on the appliance.

3. Appliance description

This appliance works according to the principle of regenerative heat transfer. Heat exchange sections are located in the air flow.

These appliances only function in pairs in alternate operation. One appliance operates for approx. 40 seconds in supply air mode, the other operates simultaneously in extract air mode. The air direction is then changed. This means that the total supply air flow rates is equal to the total extract air flow rates.

In extract air mode, the heat exchanger absorbs the majority of the thermal energy from the extracted indoor air. Once the fan has switched to supply air mode, the heat exchanger transfers the stored thermal energy to the inflowing outdoor air.

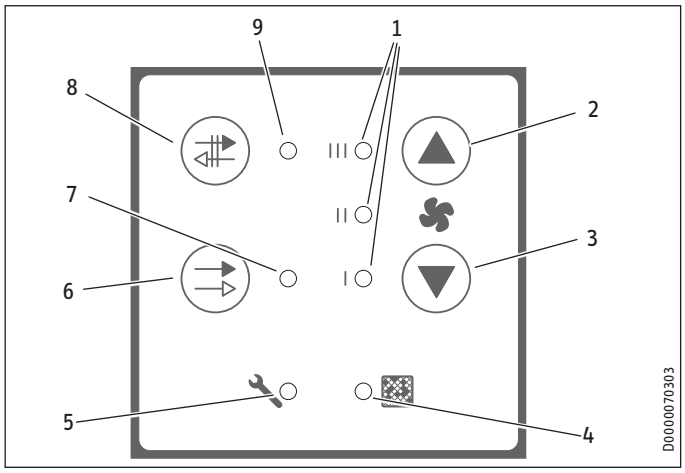
A small part of the thermal energy is lost as the air is extracted. At low outside temperatures, e.g. in winter, the inflowing air cannot be warmer than the outflowing air.

A filter outside the building reduces the penetration of dust and other suspended matter. A filter inside the building reduces contamination of the appliance.

4. Settings

Note
When the appliance is in operation, the internal panel must be open.
Never restrict the air flow from the appliance with cupboards, curtains, etc.

4.1 Controls



1 "Fan stage" indicator
2 "UP" button
3 "DOWN" button
4 "Filter" indicator
5 "Fault" indicator
6 "Cross-ventilation" button
7 "Cross-ventilation" indicator
8 "Differential mode" button
9 "Differential mode" indicator

Confirming settings

Some settings have to be confirmed to be accepted. To save the selected value, press the “Differential mode” and “Cross-ventilation” buttons simultaneously. If the test is successful, this is confirmed by the indicators lighting up.

4.2 Differential mode

The "Differential mode" button activates the mode that enables the appliance to change the air flow direction at regular intervals.

4.3 Cross-ventilation

The "Cross-ventilation" button activates the mode that enables appliances to operate without heat recovery.

One of the paired appliances permanently draws the extract air from the building. The other appliance permanently draws supply air into the building.

If, on summer nights, the outside temperature is lower than the room temperature, cross-ventilation is ideal for passive cooling of the building.

4.4 Fan stage

	Display	
Ventilation for humidity protection	I	Necessary ventilation for ensuring that the building structure is protected under normal conditions of use with somewhat reduced moisture loads, e.g. during temporary absence of users and no drying of washing in the residential unit.
Reduced ventilation	II	Reduced ventilation is the ventilation necessary to meet hygiene standards and ensure protection of the building structure (moisture level) under standard conditions of use with partially reduced moisture and pollutant loads, e.g. as a result of intermittent user absence.
Standard ventilation	III	Standard ventilation is the ventilation necessary to meet hygiene standards and ensure protection of the building structure when users are present.
Reference air flow rate	I & III	The air flow rate is 70 % of the maximum air flow rate. You can only switch on this fan stage if the reference air flow rate is enabled.
Intensive ventilation	I & II & III	Intensive ventilation is increased ventilation with a higher flow rate to reduce load peaks, e.g. for rapid ventilation during or after a party. Intensive ventilation ends automatically after a time that you set.

▶ Set the fan stage using the "UP" and "DOWN" buttons.
▶ The selected fan stage is indicated by the three LEDs on the "Fan stage" indicator. When the fan stage is "Intensive ventilation", the three LEDs on the "Fan stage" indicator light up simultaneously.

4.5 Intensive ventilation

To set intensive ventilation, press the "UP" button while standard ventilation is active (LED III lights up).

Setting the duration of intensive ventilation

▶ When intensive ventilation is activated, press the "Differential mode" and "Cross-ventilation" buttons simultaneously for at least 3 seconds.

The “Differential mode” indicator and the “Cross-ventilation” indicator are illuminated.

▶ Set the duration using the "UP" and "DOWN" buttons.

Display	Intensive ventilation duration [min] / Fan stage after end of intensive ventilation							
	15 II	30 II	45 II	60 II	75 II	90 II	105 II	∞ -
III	○	○	○	○	○	☼	●	○
II	○	○	○	☼	●	●	●	○
I	○	☼	●	●	●	●	●	○
Filters	●	●	●	●	●	●	●	☼

Delivered condition: 15 minutes

▶ To save the selected value, press the "Differential mode" and "Cross-ventilation" buttons simultaneously.

The appliance illuminates the indicators to show that the selected value has been saved.

4.6 Reference air flow rate

Enabling and disabling the reference air flow rate

Delivered condition: Enabled

▶ Press and hold the “UP” button for five seconds.

“Differential mode” and “Cross-ventilation” are shown, flashing alternately.

▶ Set the mode using the “UP” and “DOWN” buttons.

Display	Disabled	Enabled
III	○	●

▶ To confirm, press the “Differential mode” and “Cross-ventilation” buttons simultaneously.

Setting the runtime for the reference air flow rate

You can how long the unit should run with the reference air flow rate.

▶ Set the “Reference air flow rate” fan stage using the “UP” and “DOWN” buttons.

▶ Press and hold the “Differential mode” and “Cross-ventilation” buttons for at least 5 seconds.

▶ Set the runtime using the “UP” and “DOWN” buttons.

Display	Runtime [min] / Fan stage after end of runtime							
	15 II	30 II	45 II	60 II	75 II	90 II	105 II	∞ -
III	○	○	○	○	○	☼	●	○
II	○	○	○	☼	●	●	●	○
I	○	☼	●	●	●	●	●	○
Filters	●	●	●	●	●	●	●	☼

▶ To confirm, press the “Differential mode” and “Cross-ventilation” buttons simultaneously.

4.7 Ventilation pause

You can switch off the appliances for an adjustable time.

▶ Use the "DOWN" button to select fan stage I.

▶ Press the "DOWN" button once.

Note
If you press the "DOWN" button again during the ventilation pause, this switches off the appliance completely.

During the ventilation pause, LED I or LED II flashes slowly. The LED for the fan stage that the appliance is switching to after the ventilation pause flashes.

Duration of the ventilation pause

▶ During the ventilation pause (stage 0), press the "Differential mode" and "Cross-ventilation" buttons simultaneously for at least 3 seconds.

The "Differential mode" and "Cross-ventilation" indicators flash rapidly and the "Fault" indicator lights up.

▶ Set the duration using the "UP" and "DOWN" buttons.

Display	Duration [minutes] / Fan stage after the ventilation pause							
	0 Off	30 I	60 I	90 I	120 I	30 II	60 II	90 II
III	○	○	○	○	○	○	☼	●
II	○	○	○	○	☼	●	●	●
I	○	○	☼	●	●	●	●	●
Filter	☼	●	●	●	●	●	●	●

Delivered condition: 60 minutes

▶ To save the selected value, press the "Differential mode" and "Cross-ventilation" buttons simultaneously.

Ending the ventilation pause

▶ To operate the appliance again with the selected fan stage, press the "UP" button.

▶ To switch off the appliance, press "DOWN".

4.8 Stop ventilation

▶ Use the “DOWN” button to select fan stage I.

▶ Press the “DOWN” button twice more.

4.9 Filter change interval

▶ Press the "Differential mode" and "UP" buttons simultaneously for at least 3 seconds.

The "Differential mode" and "Cross-ventilation" indicators light up and the "Fault" indicator flashes.

▶ Set the duration using the "UP" and "DOWN" buttons.

Display	Filter change interval [months]				
	12	9	6	3	Unscheduled filter reset
III	○	○	○	○	○
II	○	○	○	○	☼
I	○	○	☼	●	●
Filter	☼	●	●	●	●

Delivered condition: 6 months

▶ To save the selected value, press the "Differential mode" and "Cross-ventilation" buttons simultaneously.

4.10 Brightness of the LED indicators

▶ Press the "Cross-ventilation" and "DOWN" buttons simultaneously for at least 3 seconds until all indicators except the "Fault" indicator light up.

▶ Set the brightness using the "UP" and "DOWN" buttons.

▶ The appliance saves the setting after a few seconds.

4.11 Reading the number of hours run

The number of hours run is shown with the LED indicators, which flash one after another. Count how often each indicator flashes. Indication of hours run starts with the flashing of the "Filter" indicator. An LED flashes every 0.5 seconds. After a pause of 3 seconds, look at the next LED.

Once all four LEDs have indicated their number of hours, there is a pause of 5 seconds before the indication of hours run occurs a second time for checking purposes.

Display	Each flash stands for ... hours
Filter	10
I	100
II	1000
III	10000

- ▶ Press the "Cross-ventilation" and "UP" buttons simultaneously for at least 3 seconds.
- ▶ Count the indicator flashes.

5. Cleaning, care and maintenance

WARNING Injury
To ensure that no limbs or objects come into contact with the rotating fan blades, switch off the power supply to the appliance at the building's fuse box.

The appliance control unit is maintenance-free.

5.1 Cleaning

- ▶ Wipe the internal panel with a soft dry cloth.

5.2 Replacing filters

You can buy filters as accessories:

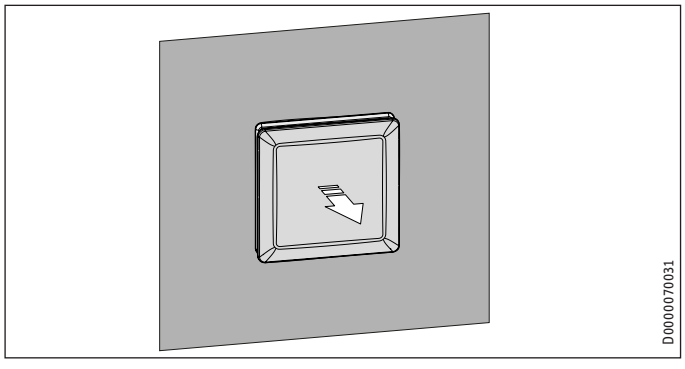
	Filterklasse	
VLR 70 RF COARSE 30 G2-4	ISO Coarse > 30 % (G2)	Outside
VLR 70 RF ACTIVE CARBON-4	ISO Coarse > 30 % (G2)	Inside
VLR 70 RF COARSE 60 G4-4	ISO Coarse > 60 % (G4)	Outside / Inside
VLR 70 RF EPM10 50 M5-4	ePM_{10} ≥ 50 % (M5)	Inside
VLR 70 RF EPM1 50 F7-4	ePM_1 ≥ 50 % (F7)	Inside
VLR 70 RF EPM1 80 F9-4	ePM_1 ≥ 80 % (F9)	Inside

After an adjustable number of days run, the "Filter" indicator lights up.

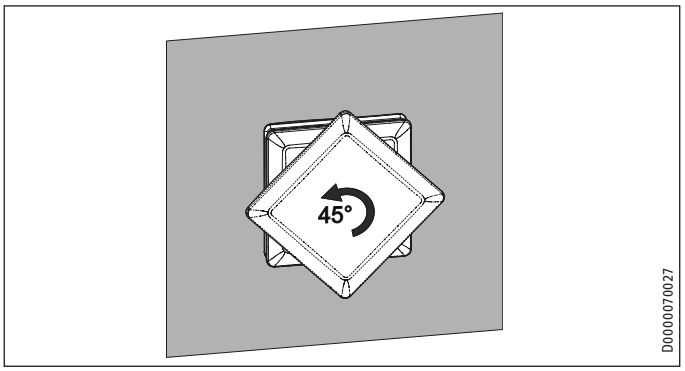
- ▶ When the "Filter" indicator lights up, replace the filters.

We recommend replacing the filters every 6 months. If the ambient air is polluted, replace the filters more often. Check the filters monthly.

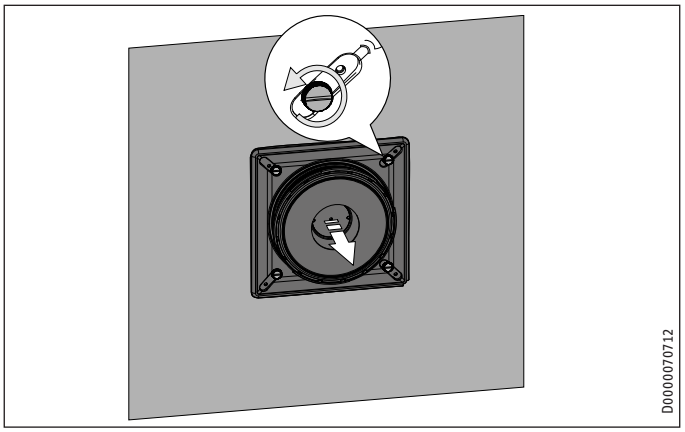
5.2.1 Opening the internal panel



- ▶ If the internal panel is not open, carefully pull the internal panel cover slightly back from the wall.

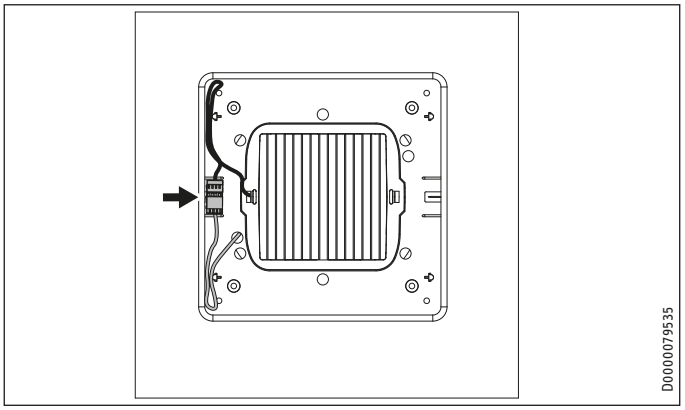


- ▶ Rotate the internal panel cover 45° anti-clockwise.
- ▶ Remove the cover.

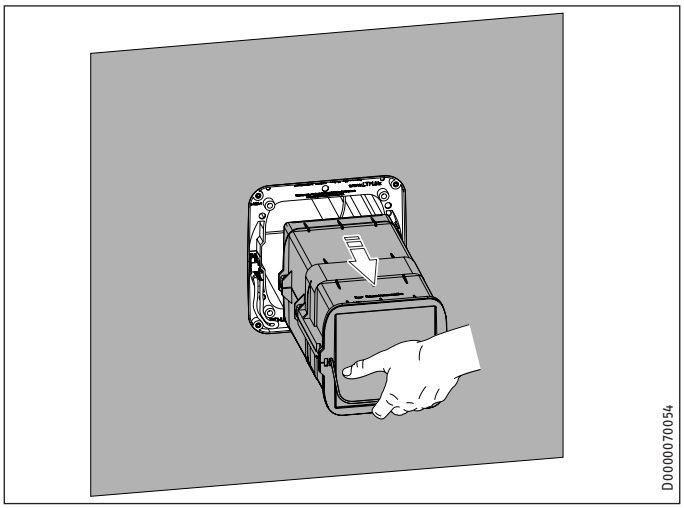


- ▶ Undo the four knurled screws.
- ▶ Remove the internal panel base plate.

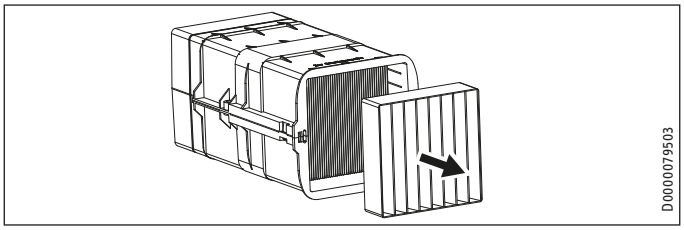
5.2.2 Removing the fan unit



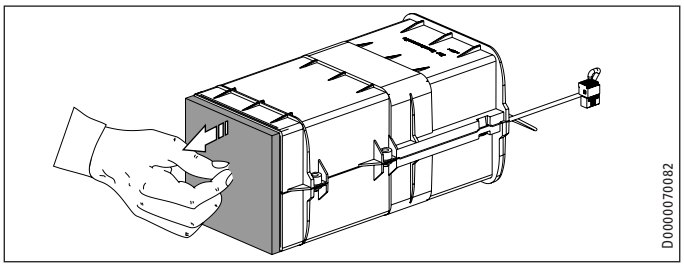
- ▶ Pull the plug-in connection to the right to remove it from the retainer.
- ▶ Disconnect the plug-in connection.



▶ Use the bracket to pull the fan unit out of the wall mount casing.



▶ Remove the internal filter.



▶ Remove the external filter. Use a screwdriver if necessary.

▶ Insert new external and internal filters.

5.2.3 Resetting the filter timer

▶ When the "Filter" indicator lights up, press the "Cross-ventilation" and "Differential mode" buttons simultaneously for at least 3 seconds.

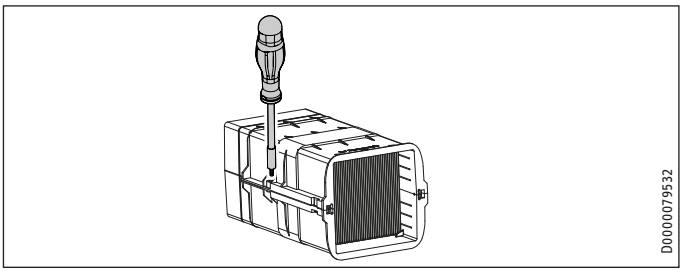
The "Filter" indicator goes off.

5.2.4 Logging a filter change

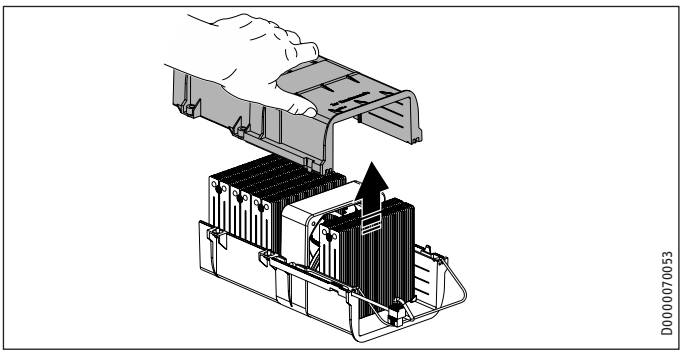
▶ Enter the filter change in the filter change report at the back of the instruction manual.

5.3 Cleaning heat exchangers

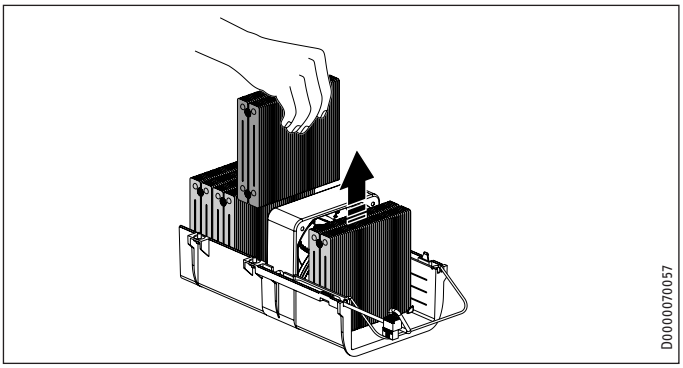
Clean the appliance's heat exchangers at the start of the heating season. If the ambient air is polluted, clean the heat exchangers every 6 months.



▶ Undo the screws on the long sides of the fan unit.



▶ Lift off the top half of the fan unit.



▶ Remove the heat exchange sections.

The fan does not need to be removed.

▶ Check the fan blades for contamination.

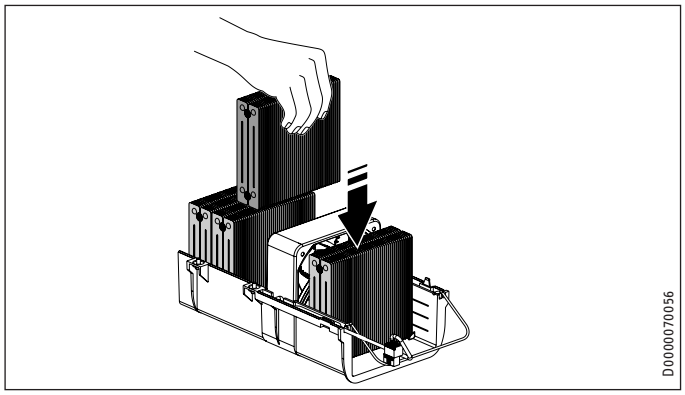
▶ Carefully dry-wipe the fan blades if necessary.

▶ Carefully clean the fan unit casing with a dry cloth.

Material losses
Never put heat exchangers in the dishwasher. Otherwise, there is a risk of corrosion.

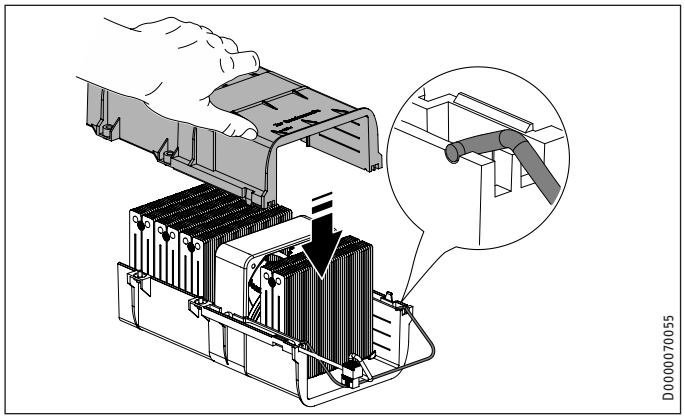
▶ Wash the heat exchange sections in warm water with a little washing-up liquid.

▶ Leave the heat exchange sections to dry completely before reinstalling them.

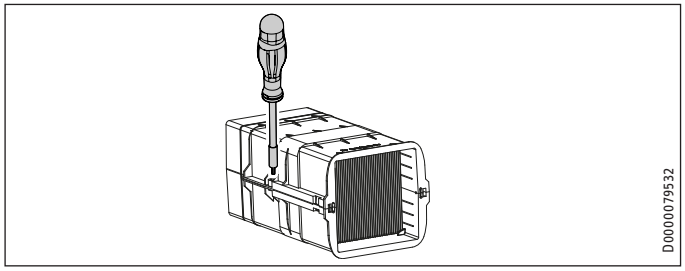


- ▶ Reinsert the heat exchange sections. The fins of the heat exchanger must be vertical.
- ▶ If you removed the fan, ensure that the direction of installation is correct when refitting it. The direction of installation is specified on the fan.
- ▶ Ensure that the gaskets are fitted on the fan.

The fan connecting cable must be routed on the left-hand side in the guide provided.



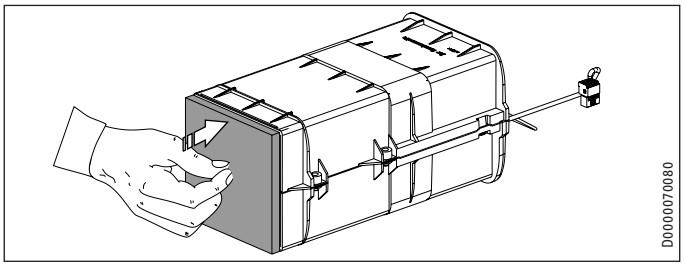
- ▶ Ensure that the bracket is seated correctly in the lower half of the casing.
- ▶ Fit the top half of the fan unit by jiggling it slightly to move it down.



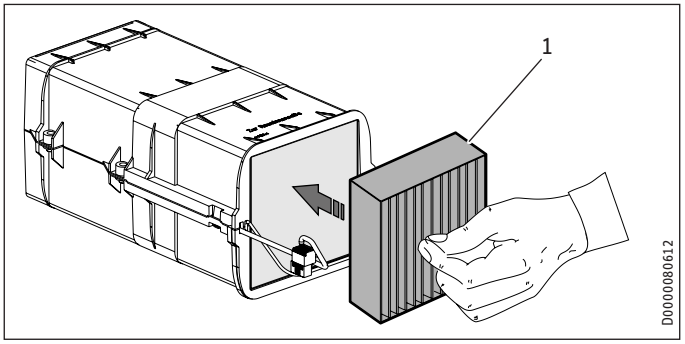
- ▶ Screw in the screws on the long sides of the fan unit.

5.4 Assembling the appliance

Note
For reasons of hygiene, always replace contaminated filters with new ones. Always use original spare parts. Use of alternative filters may lead to considerable losses of appliance output and functionality.

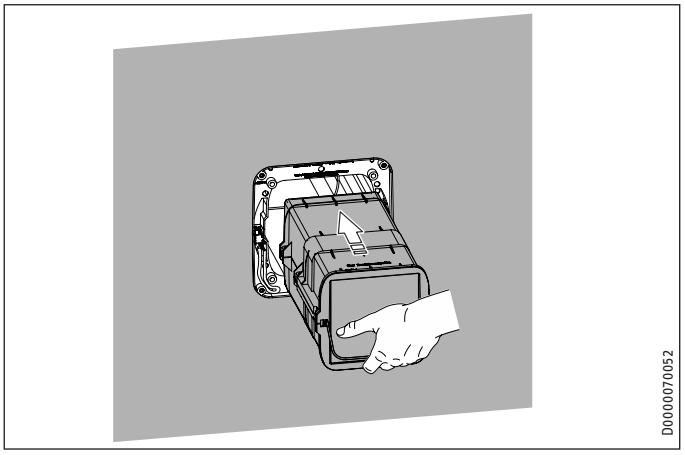


- ▶ Fit a new external filter.

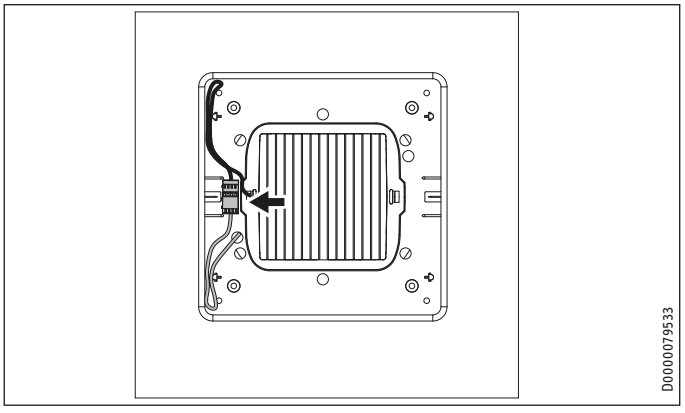


1 Internal filter

- ▶ Fit a new internal filter.



- ▶ Push the fan unit into the wall mount casing so that the bracket is inside the building at the bottom.
- ▶ Ensure that the fan unit is not wedged.
- ▶ Push the fan unit as far as it will go into the wall mount casing.



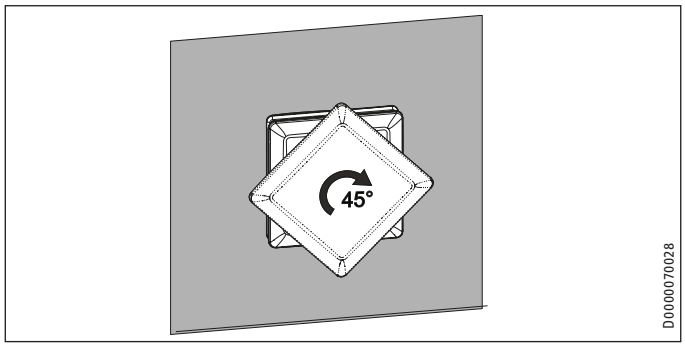
- ▶ Reconnect the power supply.

- ▶ Carefully push the plug-in connection from the right into the retainer.
- ▶ Clamp the cable in a loop underneath the plug-in connection between the plastic bosses.

Internal panel

Material losses
Turn the screws until just finger-tight.

- ▶ Secure the internal panel base plate to the wall mount casing using the four knurled screws.
- ▶ Refit the cover on the internal panel.



- ▶ Rotate the internal panel cover 45° clockwise.
- ▶ Switch on the power supply to the appliance via the fuse/MCB in the fuse box.

6. Troubleshooting

Note
At outside temperatures below 0 °C, ice may form on the external filter or on the outside cover.

"Fault" indicator flashes x times	Cause	Remedy
1	Fan fault	Notify a qualified contractor.
2	Level error during system detection	Notify a qualified contractor.
3	Communication fault	Notify a qualified contractor.
4	Fault in system detection (stability fault)	Notify a qualified contractor.
5	The programming unit and control structure are not compatible.	Look up the system components on the programming unit. Notify a qualified contractor.
Flashes continuously	The control unit is not programmed correctly.	Pair the control unit again. If pairing is unsuccessful, restore the factory settings with a reset.

The flashing codes are repeated every 10 seconds.

Faults without fault message

Faults	Remedy
In rare cases the fan may stop when this is not wanted.	Switch off the power supply to the appliance via the fuse/MCB in the fuse box. After a power interruption of three seconds, switching the appliance back on causes a reset. The appliance resumes correct operation.

6.1 Restoring factory settings

- ▶ Press and hold down the 4 buttons on the programming unit simultaneously for more than 5 seconds until the two operating mode indicators light up.
- ▶ Press the “UP” and “DOWN” buttons simultaneously for at least 3 seconds.

If the reset is successful, this is shown on the programming unit by the indicators on the right lighting up alternately several times from bottom to top.

Display during appliance start-up

All indicators on the programming unit light up for a few seconds.

Of the indicators on the left, a further indicator goes off every two seconds.

All indicators flash at the frequency of the connected system.

6.2 Notifying a qualified contractor

If you cannot remedy the fault, contact your qualified contractor. To facilitate and speed up your request, provide the number from the type plate (000000-0000-000000).

The type plate can be found on the fan unit after removing the internal panel.

6.2.1 Calling up components

You can call up the components to help the qualified contractor become familiar with the system configuration.

- ▶ Press the “UP” and “DOWN” buttons simultaneously for at least 3 seconds.

The “Fault” indicator flashes several times in rapid succession. The programming unit then immediately shows the control unit information (first table column).

Display	Scan mode					
	Control unit	Control unit software	Control unit hardware	Programming unit software	Programming unit hardware	Programming unit
III	○	○	○	○	○	○
II	○	○	○	○	☼	●
I	○	○	☼	●	●	●
Filters	☼	●	●	●	●	●

- ▶ Compare the programming unit displays with the table. Select the information you wish to scan for using the “UP” and “DOWN” buttons.

The “Fault” indicator flashes several times in rapid succession.

Software/hardware statuses

- ▶ Count how often the “Cross-ventilation” indicator flashes. This number is the first digit of the software/hardware status.

The “Fault” indicator flashes once.

▶ Count how often the “Cross-ventilation” indicator flashes. This number is the second digit of the software/hardware status.

The “Fault” indicator flashes once.

▶ Count how often the “Cross-ventilation” indicator flashes. This number is the third digit of the software/hardware status.

To enable you to check the information that is displayed, the flashing sequence is repeated three times.

Compatibility of the control unit

Some components are available in visually identical designs for different appliances. Check whether the components you are using are compatible with your appliance.

Indicator flashes x times	Compatible
1	No
2	No
3	No
4	No
5	Yes

▶ Count how many times the indicators flash.

If the component is not compatible, contact your qualified contractor.

Compatibility of the programming unit

Some components are available in visually identical designs for different appliances. Check whether the components you are using are compatible with your appliance.

Indicator flashes x times	Compatible
1	No
2	No
3	Yes

▶ Count how many times the indicators flash.

If the component is not compatible, contact your qualified contractor.

7. Appliance shutdown

▶ Switch off the power supply to the appliance via the fuse/MCB in the fuse box.

▶ To prevent heat losses, close the internal panel.

8. Recommissioning

▶ Remove the internal panel cover.

▶ Fit a new filter.

▶ Fit the internal panel cover.

▶ Open the internal panel cover.

▶ Switch on the power supply.

INSTALLATION

9. Safety

Only a qualified contractor should carry out installation, commissioning, maintenance and repair of the appliance.

9.1 General safety instructions

We guarantee trouble-free function and operational reliability only if original accessories and spare parts intended for the appliance are used.

9.2 Instructions, standards and regulations

Note
Observe all applicable national and regional regulations and instructions.

WARNING Burns
In connection with the fire prevention regulations concerning the installation of ventilation systems, observe all country-specific regulations and requirements.

9.3 Operation of the appliance in buildings with combustion equipment

The term "combustion equipment" used below includes, for example, tiled stoves, fireplaces and equipment with gas combustion.

WARNING Injury
Ventilation units can generate negative pressure in the dwelling. If combustion equipment is operating at the same time, combustion exhaust gases can penetrate the room where the combustion equipment is installed. It is therefore important to observe a number of points for simultaneous operation of a ventilation unit and combustion equipment.

The engineering, installation and operation of the ventilation unit and combustion equipment must be carried out in accordance with national and regional regulations.

9.3.1 Planning safety measures

Together with the relevant authorities, engineers plan the safety measures that are required for simultaneous operation of a ventilation unit and combustion equipment.

Alternate operation

Alternate operation means that, when the combustion equipment is started, the mechanical ventilation system is switched off and/or cannot be started. Alternate operation must be ensured by appropriate measures, e.g. automatically enforced shutdown of the ventilation unit.

Simultaneous operation

For simultaneous operation of combustion equipment and a mechanical ventilation system, we recommend choosing approved room sealed combustion equipment (in Germany, with DIBt approval).

If open flue combustion equipment is operated in the dwelling at the same time as a ventilation unit, combustion exhaust gases must be prevented from penetrating the home as a result of possible negative pressure in the room.

The ventilation unit may only be operated in combination with intrinsically safe combustion equipment. This combustion equipment has, for example, a draught hood or an exhaust gas monitor and is permitted to be operated in conjunction with ventilation units. Alternatively, external, tested safety equipment can be connected to monitor the operation of the combustion equipment. For example, you can install differential pressure monitoring to monitor the chimney draught and to switch off the ventilation unit in the event of a fault.

The equipment for differential pressure monitoring must fulfil the following requirements:

- Monitoring of the differential pressure between the connection piece to the chimney and the room where the combustion equipment is installed
- Possibility of matching the shutdown value for the differential pressure to the minimum draught requirement for the combustion equipment
- Floating contact to switch off the ventilation function
- Optional connection of a temperature capturing device so that differential pressure monitoring is only enabled when the combustion equipment is in operation and so that unwanted shutdowns due to environmental influences can be prevented

Note
Differential pressure switches that use the pressure differential between the outdoor air pressure and the pressure in the room where the combustion equipment is sited as a response criterion are not suitable.

Note
We recommend installing and regularly maintaining a carbon monoxide detector in accordance with EN 50291 for operation of any combustion equipment.

9.3.2 Commissioning

When commissioning the ventilation unit, it is important to check and document in the commissioning log that combustion exhaust gases are not penetrating the dwelling in a quantity that is harmful to health.

Commissioning in Germany

Acceptance is carried out by the local flue gas inspector.

Commissioning outside Germany

Acceptance must be carried out by a specialist. In case of doubt, you must involve an independent expert in the acceptance procedure.

9.3.3 Maintenance

Regular maintenance of the combustion equipment is prescribed. Maintenance includes checking the exhaust gas extraction system, the free pipe cross-sections and the safety equipment. The relevant qualified contractor responsible must prove that is a sufficient flow of combustion air.

10. Appliance description

10.1 Standard delivery

- Tilting wall mount casing with support frame
- Fan unit
- Internal panel
- External panel

10.2 Accessories

10.2.1 Required accessories

- Control set: Programming unit, control unit, flush box, power supply unit subject to the number of appliances

10.2.2 Further accessories

PM 2,5 fine dust sensor

- VLR Monitoring accessory

11. Preparation

11.1 Transport

Material losses
Heavy impacts may impair functionality and damage the appliance.
- ▶ Always store and transport the appliance in its delivery packaging.
- ▶ Store the appliance in a dry place protected against vibrations.

Material losses
Leave the appliance in its protective packaging until shortly before installation.

11.2 Installation site

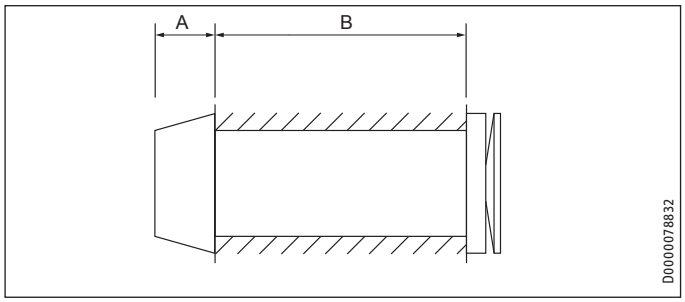
WARNING Electrocution
If installing the appliance in rooms with a bath and/or shower, take the relevant safety zone into account in accordance with the information on the appliance type plate. The safety zones are defined in the IEC 60364-7-701 standard.

If a pair of appliances working in differential mode are being installed in two different rooms in the apartment, create an air connection between these rooms by ensuring that the overflow air apertures are large enough.

Windowless extract air areas (e.g. kitchens, bathrooms and toilets) should only be ventilated with the appliance if it is installed in an external wall. Appliances should not be connected to a shaft or pipeline.

To avoid draughts caused by fan operation, we recommend installing the appliance next to windows at lintel height.

Wall thickness including render/plaster



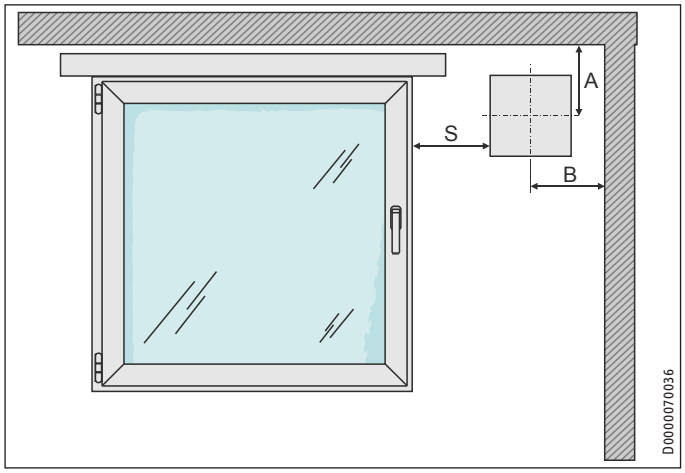
		VLR 70 L Trend EN	VLR 70 S Trend EN
A	mm	80	200
B	mm	300-550	100-300

Minimum clearances

Note
Take the position of the core hole into account when designing the interior fittings, e.g. kitchen cabinets.

Ensure a clearance of 350 mm between the side of the internal panel and any furniture.

- Inside the building, ensure there is enough free space in front of the internal panel for inserting and removing the fan unit.
- Never install the appliance near seating areas or at the head of a bed.
- Ensure a clearance of 100 mm from all sides of the external panel to downpipes, balconies and other solid objects.

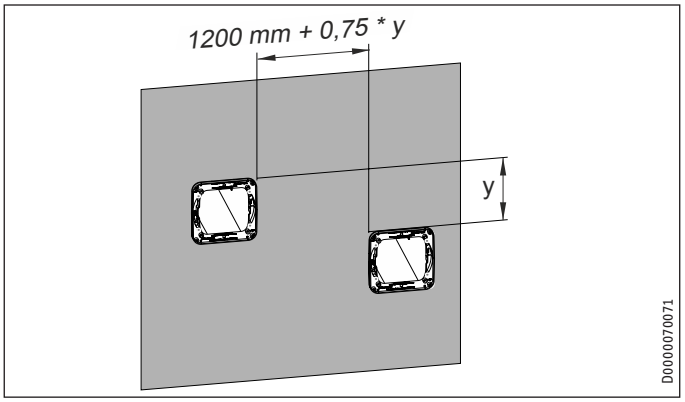


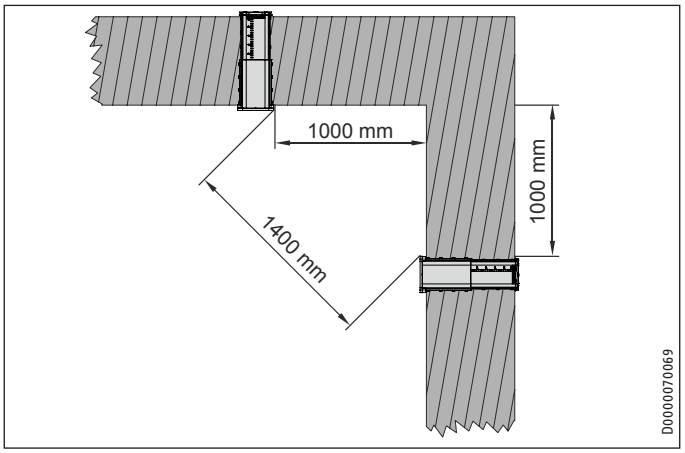
A 220 mm
B 220 mm
S Specified clearance depending on the structural condition of the wall

We recommend positioning the upper edge of the wall outlet 30 mm beneath the upper edge of the window.

Clearances between appliances working in differential mode

Appliances working as a pair in differential mode must be installed with a minimum horizontal and vertical clearance.

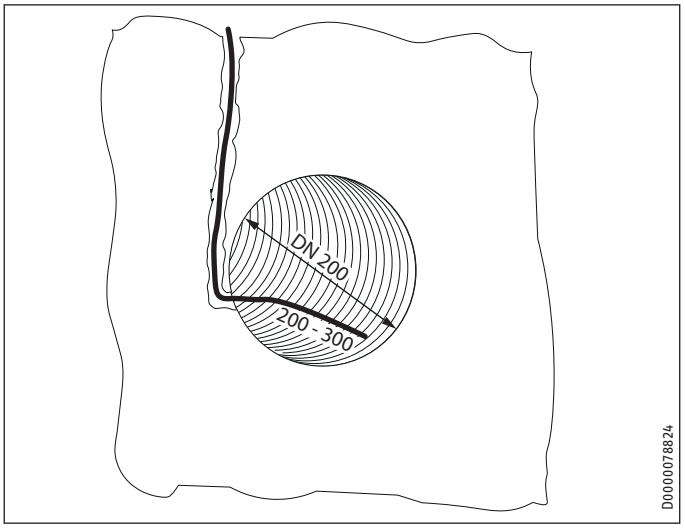




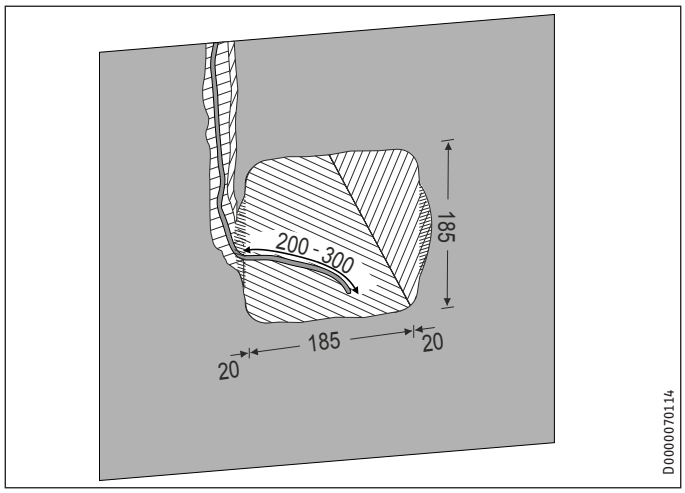
11.3 Wall outlet

The figures show the wall without plaster.

11.3.1 Solid wall



Alternative:



▶ Create a wall outlet vertical to the wall without a fall.

The fall required for draining any condensate is achieved by securing the wall mount casing on the support frame in such a way that it can be tilted.

▶ On the inside of the wall, create the slot for the cable, which you route from the control unit to the left-hand side of the wall mount casing. The diagram shows a sample installation where the cable is routed from above. You can also route the cable from below or horizontally to the left-hand side of the wall mount casing.

▶ Install the cable from the planned installation site of the control unit to the left-hand side of the wall mount casing. The cable must have a free end of 200 to 300 mm in the wall mount casing to enable you to connect the appliance.

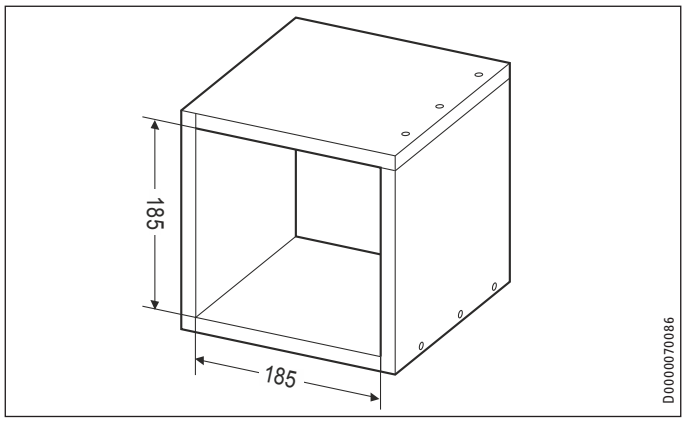
Cable type: YR 4 x 0.8 mm² or equivalent

Cable length: ≤ 25 m

11.3.2 Cavity wall installation

▶ Create a wall outlet vertical to the wall without a fall.

The fall required for draining any condensate is achieved by securing the wall mount casing on the support frame in such a way that it can be tilted.



▶ For a cavity wall, construct enclosed wooden edging with a length corresponding to the wall thickness between the internal lining and external cladding.

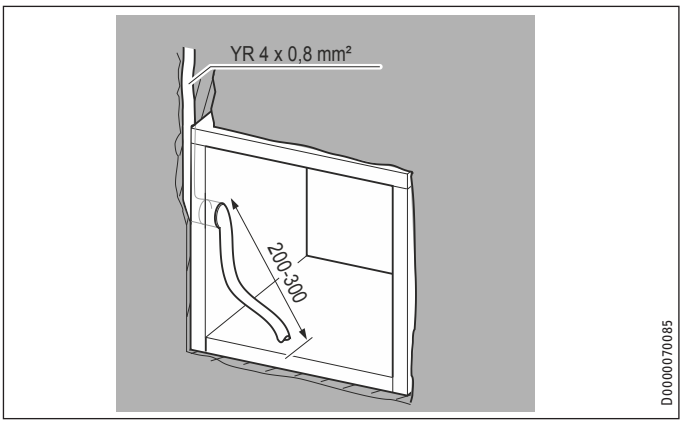
▶ Install the cable from the planned installation site of the control unit to the left-hand side of the wall mount casing. The cable must have a free end of 200 to 300 mm in the wall mount casing to enable you to connect the appliance.

Cable type: YR 4 x 0.8 mm² or equivalent

Cable length: ≤ 25 m

▶ Drill a hole with a diameter to fit the cable, to create a cable entry in the wooden edging.

▶ Route the cable through the hole.



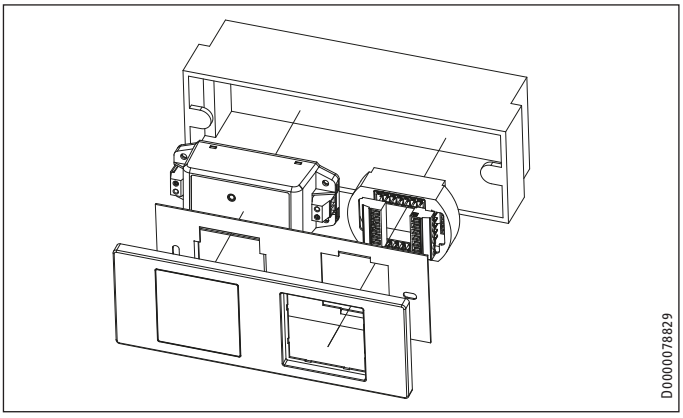
▶ Secure the wooden edging in the aperture. Use PUR foam, for example.

11.4 Control unit and programming unit

▶ Select a suitable, easily accessible location for mounting the programming unit on the wall.

11.5 Power supply unit

Power supply unit for 2 appliances



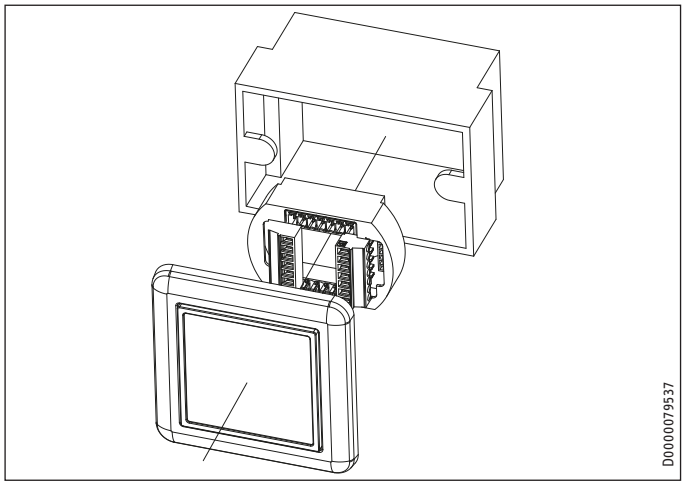
The control unit, the power supply unit and the programming unit are installed together in a double flush box.

▶ Mount the double flush box included as part of the standard delivery. The flush box must be vertical and flush with the interior plaster.

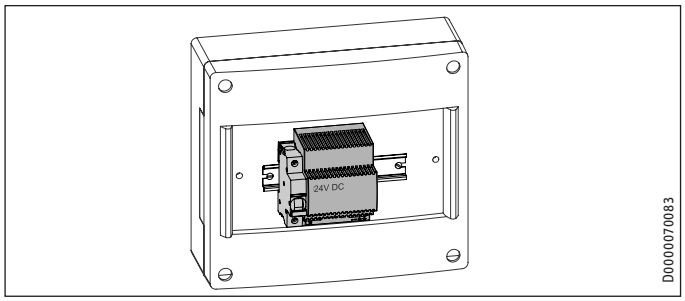
▶ Push the cable routed to the ventilation unit into the flush box. The cable must protrude 200 mm into the flush box.

▶ Push the power cable into the flush box. The cable must protrude 200 mm into the flush box.

Power supply unit for more than 2 appliances



The control unit and the programming unit are installed in a flush box. The power supply unit is installed on a top-hat rail in the fuse box. The power supply unit requires up to 4 MCB spaces.



- ▶ Install the power supply unit on a top-hat rail in the control panel fuse box.
- ▶ Mount the flush box for installing the control unit and programming unit. The flush box must be vertical and flush with the interior plaster.
- ▶ Install the cable from the control panel to the control unit.

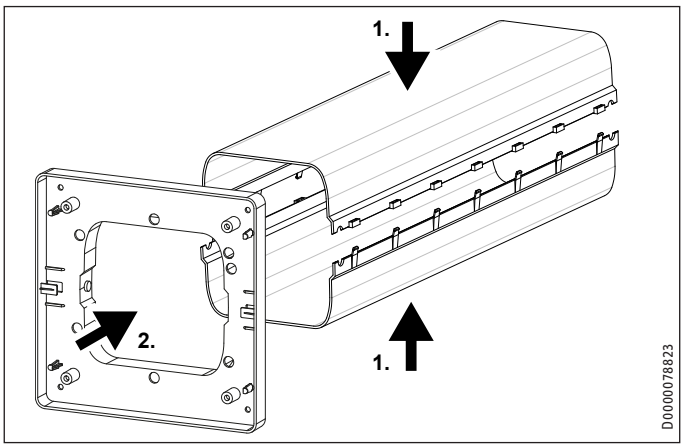
Cable type: YR 4 x 0.8 mm² or equivalent

Cable length: ≤ 25 m

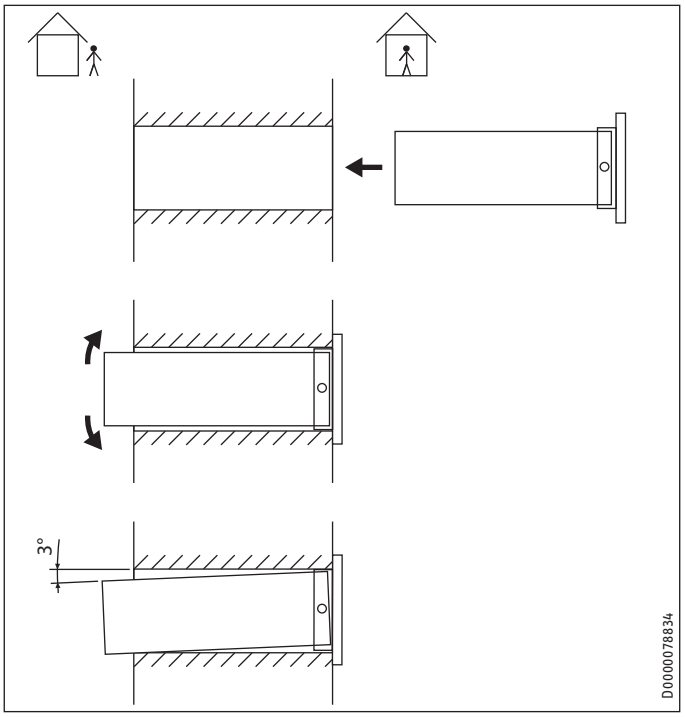
- ▶ Push the cable routed to the control panel into the flush box. The cable must protrude 200 mm into the flush box.
- ▶ Push the cable routed to the ventilation unit into the flush box. The cable must protrude 200 mm into the flush box.

12. Installation

12.1 Wall mount casing

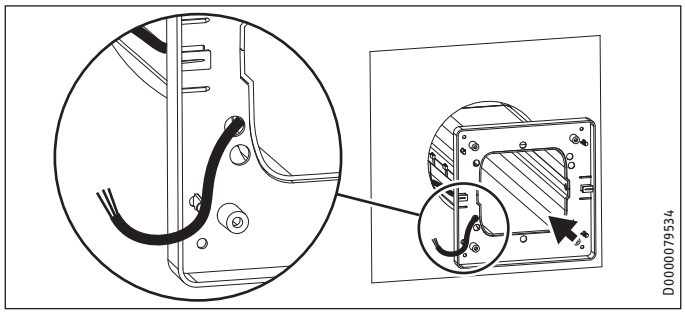


- ▶ Place the two halves of the wall mount casing together.
- ▶ Carefully push the support frame into the wall mount casing. The round brackets at the side must click into place in the apertures of the wall mount casing.



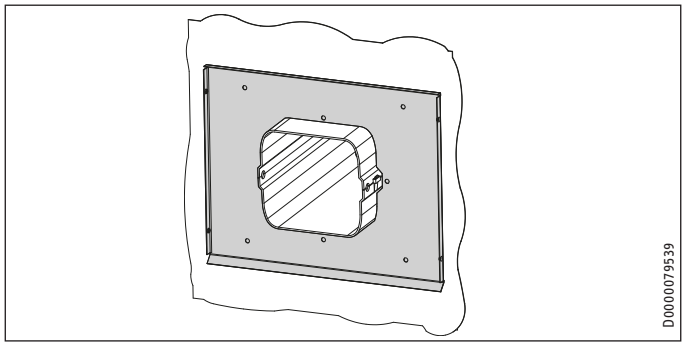
Material losses
The joint between the two halves of the wall mount casing must not be facing down. Otherwise, condensate may escape and penetrate the wall.

- ▶ On the inside of the building, push the wall mount casing almost all the way into the wall.



- ▶ On the left-hand side of the wall mount casing, route the cable from the back through the cable entry.
- ▶ Push the wall mount casing all the way into the wall.

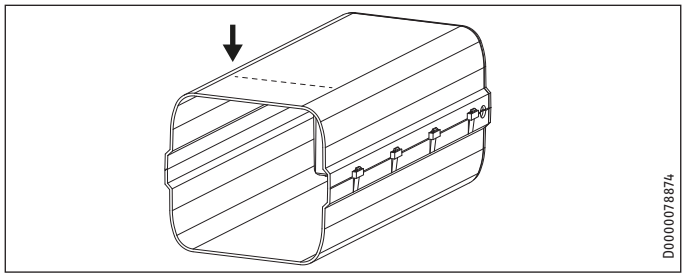
When you push the support frame on the internal wall upwards, a fall is created in the wall mount casing as a result of the axis bracket. Any condensate that occurs can run outside the building.



- ▶ On the outside of the building, push the external cover base plate over the wall mount casing protruding from the wall.

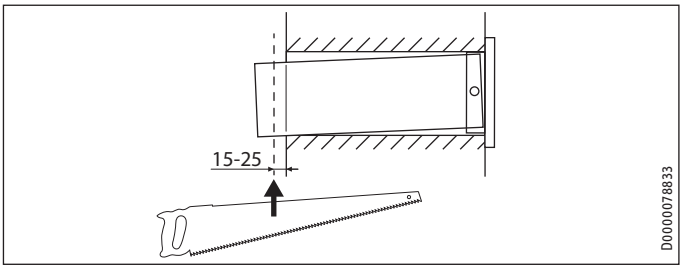
VLR 70 S Trend EN: Shortening the wall mount casing

Material losses
With this appliance, you can only shorten the wall mount casing up to the marker. This is the marker for positioning the fan and heat exchanger inside the wall mount casing at a later date.



- ▶ Shorten the wall mount casing so that it protrudes over the external panel base plate by the length illustrated.

VLR 70 L Trend EN: Shortening the wall mount casing

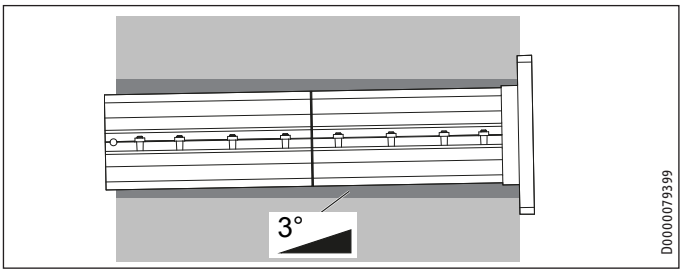


- ▶ Shorten the wall mount casing so that it protrudes over the external panel base plate by the length illustrated.

Securing the wall mount casing to the inside of the building

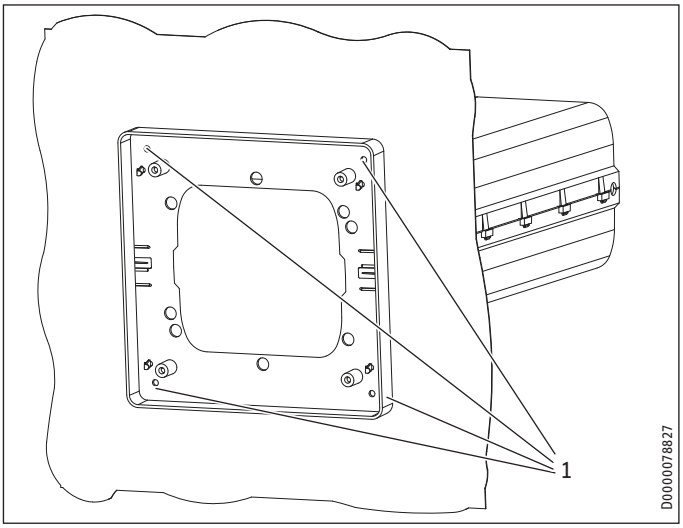
- ▶ Align the wall mount casing centrally in the wall aperture so that the apertures for injecting the PUR foam are not blocked by the brickwork.

Note
The corners of the wall mount casing must finish flush with the wall.



Material losses
To prevent condensate from running into the building, the wall mount casing must be mounted with a slight external fall. An internal fall can cause damage due to damp in the building.

- ▶ Push the support frame for the wall mount casing upwards as far as it will go.

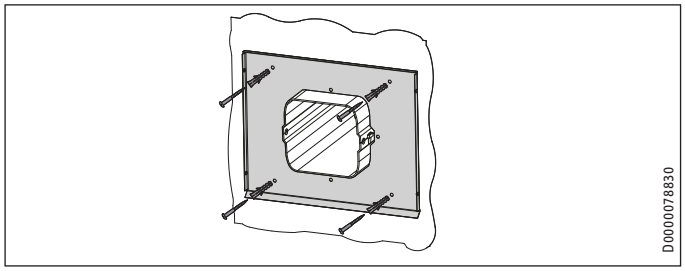


1 Hole for securing the wall mount casing

- ▶ Align the wall mount casing horizontally.

- ▶ Mark the fixing points where you will be securing the wall mount casing to the internal wall of the building.
- ▶ Drill holes at the fixing points.
- ▶ Screw the wall mount casing to the wall at the fixing points.

12.2 Securing the external cover base plate

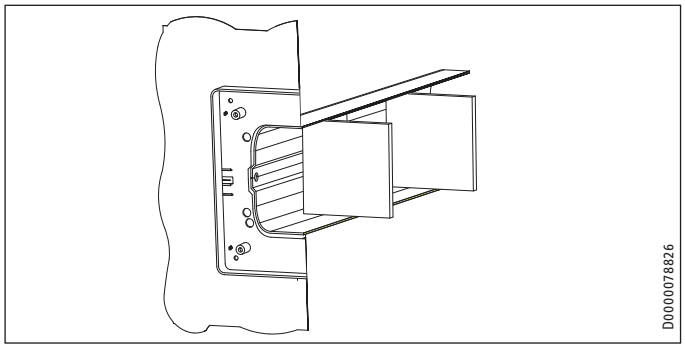


- ▶ Secure the base plate to the wall with four screws.

12.3 Foaming

Support elements

You can use the EPS support element included in the standard delivery to support the wall mount casing from the inside, before applying foam around the outside of the wall mount casing.



	VLR 70 S Trend EN	VLR 70 L Trend EN
Number of support elements	2	3

- ▶ Install the support elements in the wall mount casing so that they are evenly distributed along its length. The support elements prevent the wall mount casing from becoming compressed during foaming.

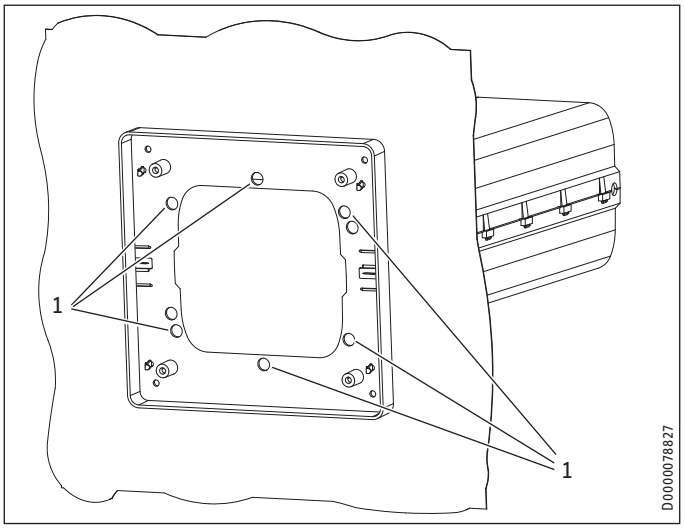
Material losses
Only remove the support elements just before you push the appliance into the wall mount casing. The support elements protect the wall mount casing. The support element prevents draught.

PUR foam

Material losses
Only use rigid 2-component PUR foam.

Note
Observe the instructions for the PUR foam. To increase the foam volume, you may need to moisten the substrate.

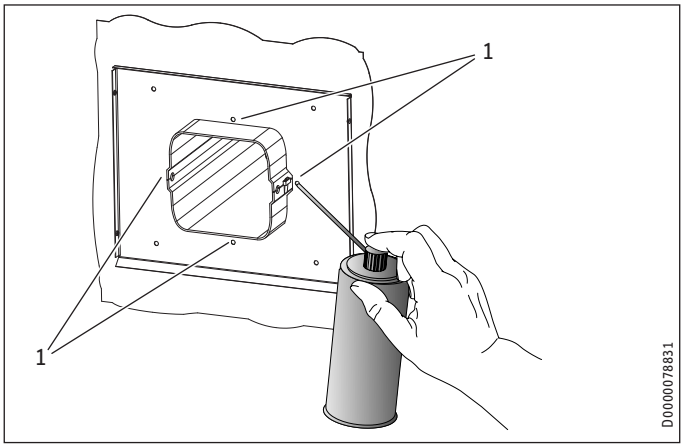
Inside



1 Apertures for foaming

- ▶ Foam the spaces around the wall mount casing to the entire wall thickness.

Outside

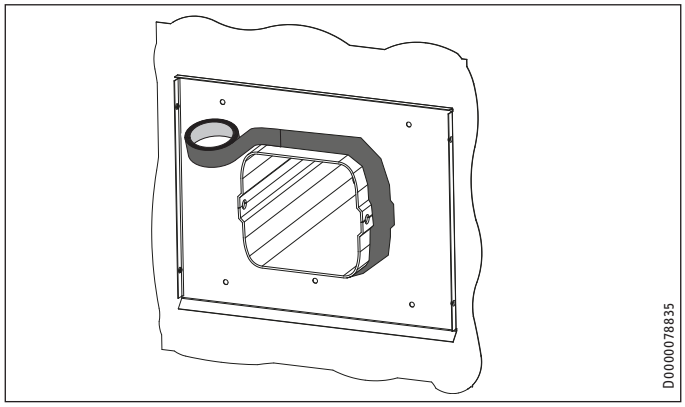


1 Apertures for foaming

- ▶ Foam around the wall mount casing through the apertures on the outside of the building.

12.4 Sealing off

▶ Once the PUR foam has hardened, trim off any bits of protruding foam.

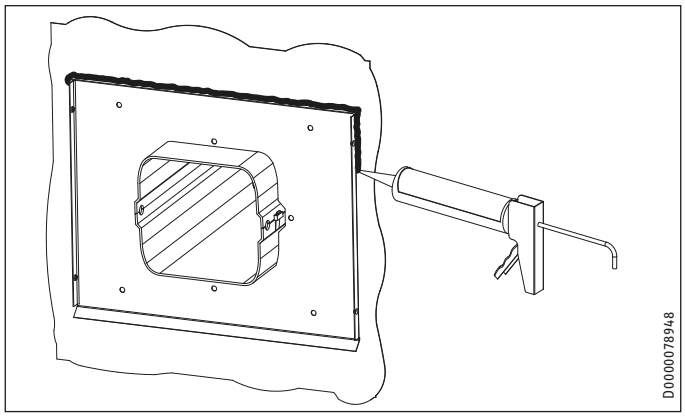


▶ Affix the permeable film as a vapour barrier to the outside over the joint between the wall mount casing and the external cover base plate.

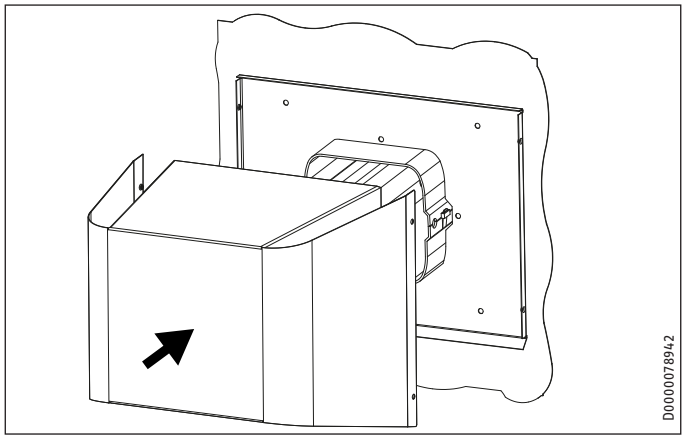
12.5 Insulating the wall mount casing

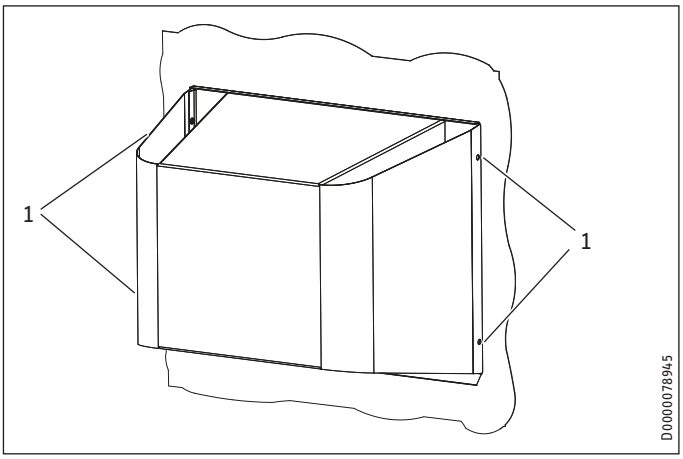
▶ Insulate the part of the wall mount casing protruding from the wall.

12.6 Sealing the external cover base plate



▶ Use a permanently elastic sealant to seal the joint between the external panel base plate and the wall.





1 Screws for securing the external cover to the base plate

▶ Secure the external cover to the base plate.

12.7 Electrical connection

WARNING Electrocution
Only qualified electricians may carry out the connection in accordance with these instructions. Carry out all electrical connection and installation work in accordance with national and regional regulations.

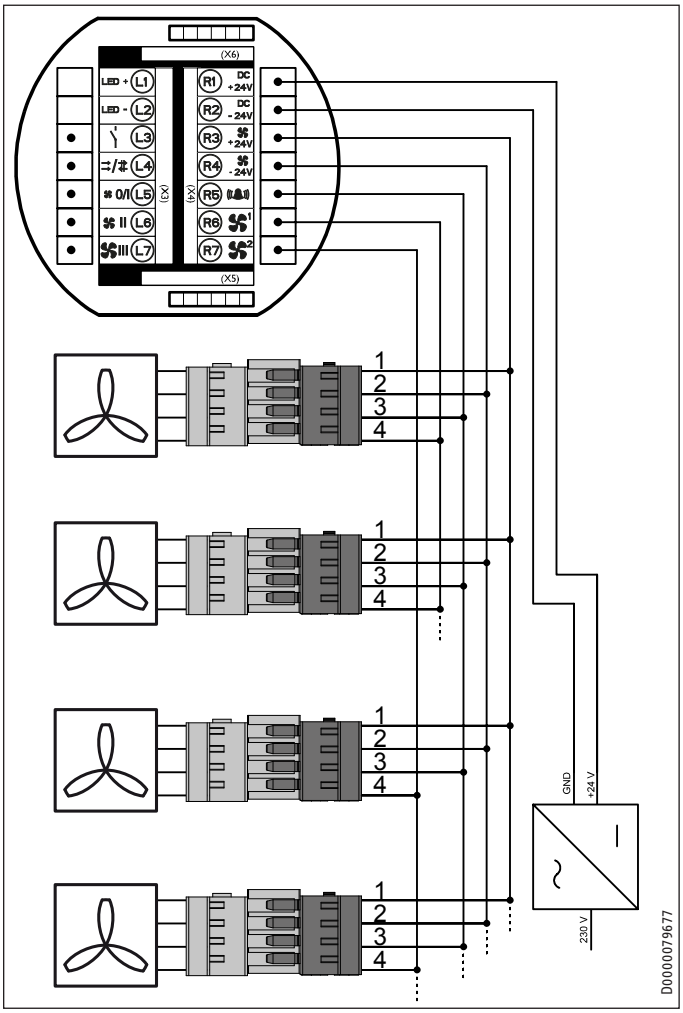
WARNING Electrocution
The connection to the power supply must be in the form of a permanent connection. Ensure the appliance can be separated from the power supply by an isolator that disconnects all poles with at least 3 mm contact separation. This requirement can be met by using contactors, circuit breakers, fuses/MCBs, etc.

WARNING Electrocution
Before working on the electrical installation, disconnect the circuit from the power supply. Switch off the fuse/MCB in the fuse box.

Material losses
The specified voltage must match the mains voltage. Observe the type plate.

Observe the fuse protection required for the appliance (see chapter "Specification / Data table").

12.7.1 Wiring diagram with more than 2 appliances



R1	DC +24 V
R2	DC -24 V
R3	Fan +24 V
R4	Fan -24 V
R5	Alarm
R6	Fan 1
R7	Fan 2

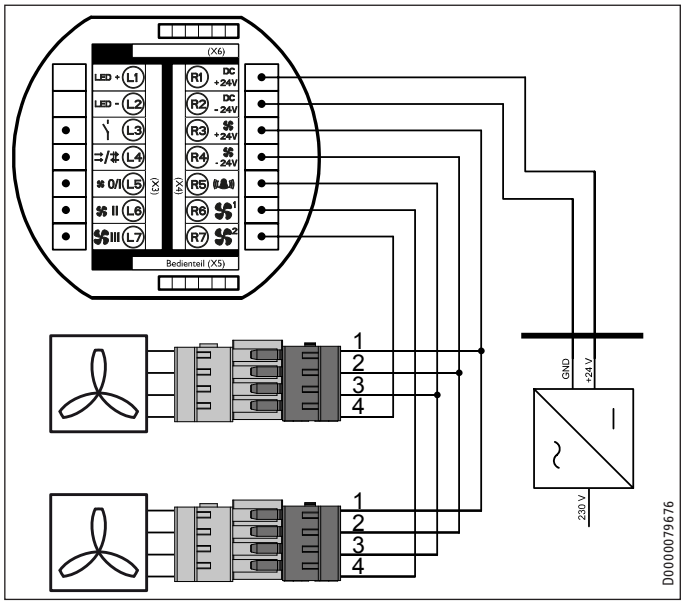
- ▶ Assign the appliances to the "Fan 1" and "Fan 2" terminals. Of the pair of appliances working in differential mode, one must be connected to the "Fan 1" terminal and the other must be connected to the "Fan 2" terminal. Check whether the pairs of appliances are working in differential mode. In differential mode, one appliance transports the extract air out of the building to the outside. The other appliance draws outdoor air into the building.

Odd number of appliances

If there is an odd number, divide the appliances into two groups. Connect the smaller group to the "Fan 1" terminal.

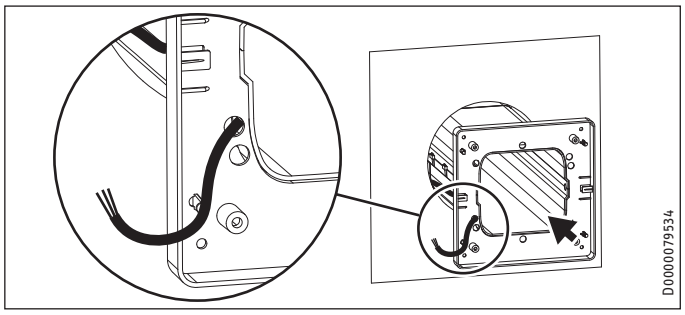
Number of fans	3	5	7
Number of appliances at "Fan 1" terminal	1	2	3
Number of appliances at "Fan 2" terminal	2	3	4

12.7.2 Wiring diagram with 2 appliances

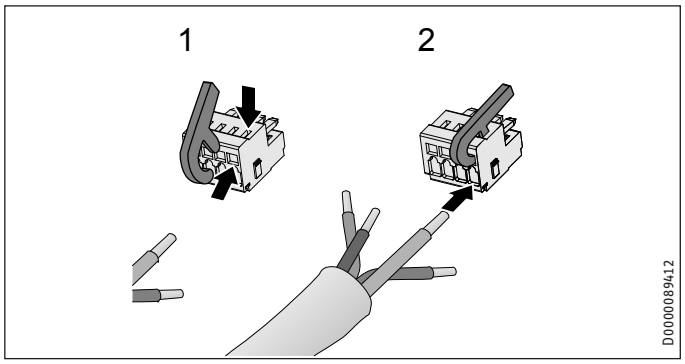


R1	DC +24 V
R2	DC -24 V
R3	Fan +24 V
R4	Fan -24 V
R5	Alarm
R6	Fan 1
R7	Fan 2

12.7.3 Connecting the plug-in connection to the control unit cable



- ▶ Remove a 30 mm length from the cable sheath.
- ▶ Strip the cable wires to a length of 10 mm.



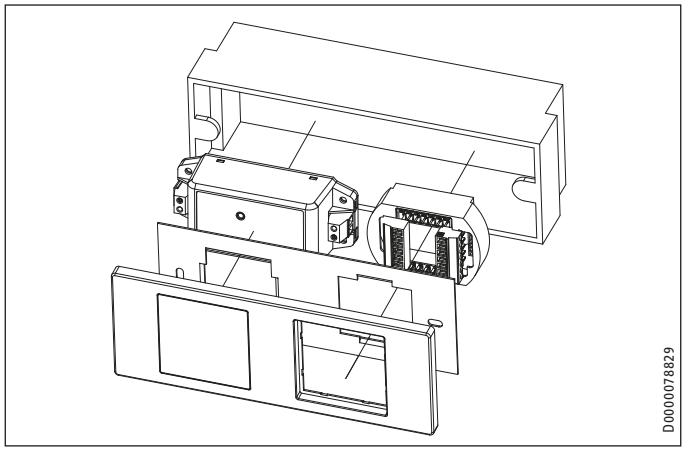
- ▶ To open the terminal, attach the tool and push it down. Alternatively, you can open the terminal with a pointed object from above or from the insertion side.
- ▶ Insert a wire into the terminal.

12.7.4 Control unit and power supply unit

Material losses
Interchanging the connections may result in control unit malfunctions.

Note
When using a differential pressure switch, always interrupt the power supply to the control unit or power supply unit.

Power supply unit for 2 appliances



- ▶ Install the power supply unit in the flush box.
- ▶ Install the control unit in the flush box.
- ▶ Connect the control unit to the power supply unit as per the wiring diagram.
- ▶ Observe the imprint on the control unit.

Power supply unit for more than 2 appliances

- ▶ Connect a dedicated MCB upstream of the power supply unit installed in the control panel.

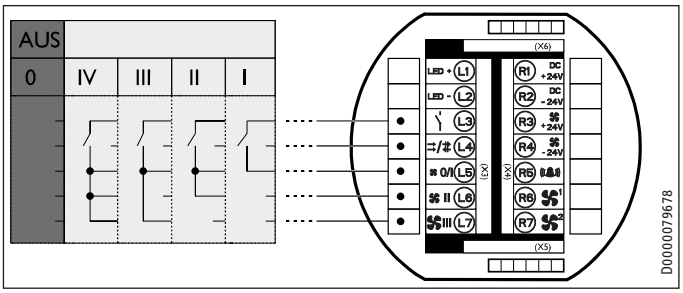
The wiring from the control panel to the appliances is carried out in a star pattern.

- ▶ Install the control unit in the flush box.
- ▶ Connect the control unit to the power supply unit as per the wiring diagram.
- ▶ Observe the imprint on the control unit.

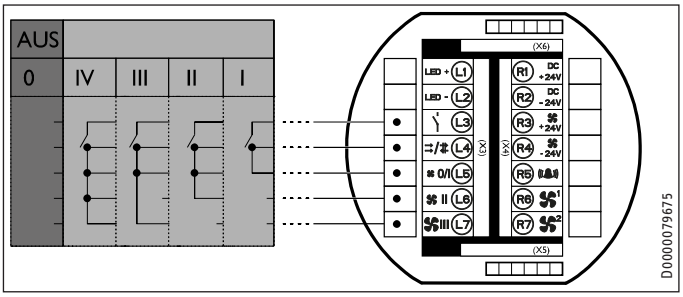
12.7.5 Activation of fan stages by means of an external signal

You can use sensors with potential-free N/O or changeover contacts. Only one of the versions shown should be connected.

Cross-ventilation

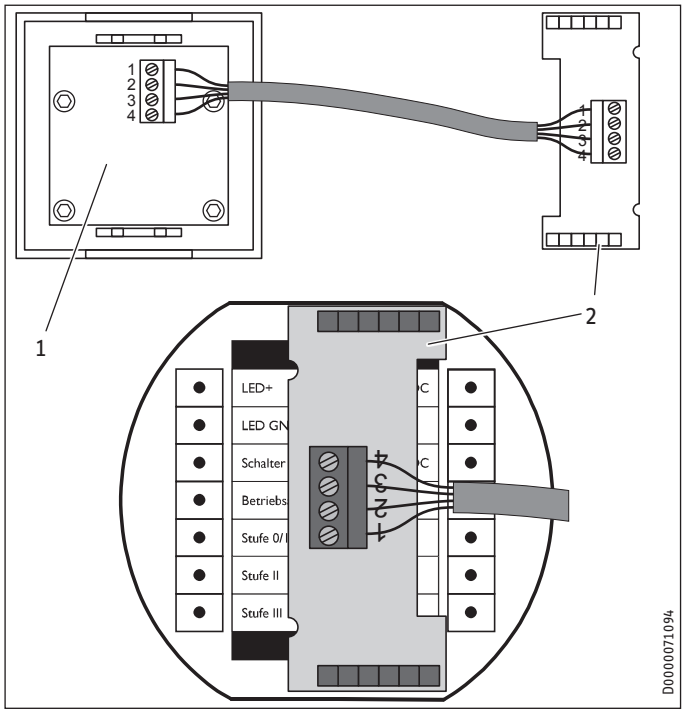


Differential mode



L1	LED+
L2	LED-
L3	Switch
L4	Operating mode
L5	Fan stage 0/I
L6	Fan stage II
L7	Fan stage III

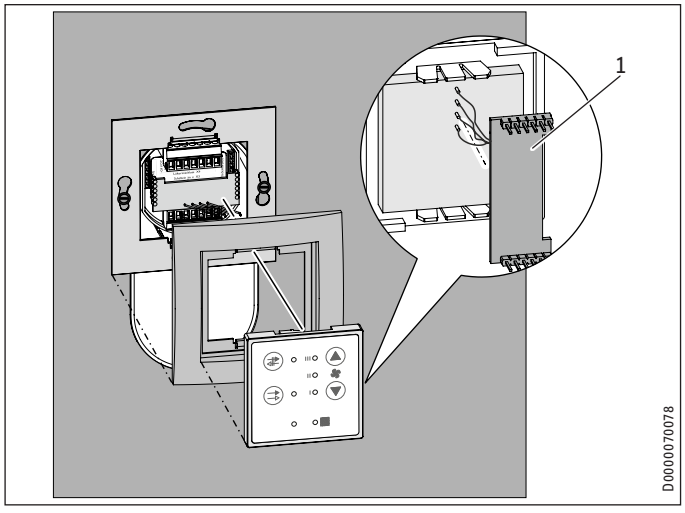
12.7.6 Connecting the programming unit to the control unit



1 Back of the programming unit
2 Adaptor board

12.8 Installing the programming unit

Note
Before installing the programming unit, the wiring between the control unit and fan and between the control unit and power source must be complete.



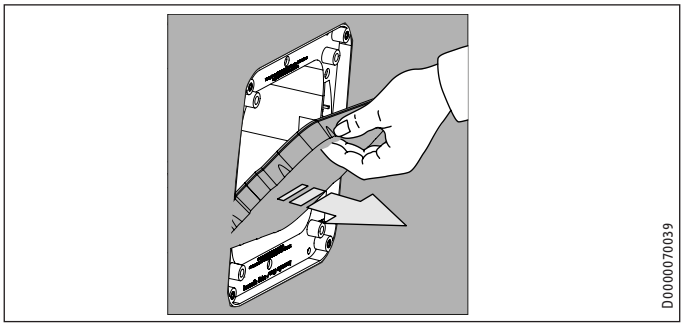
1 Adaptor board

- ▶ Pass the adaptor board through the cover frame and the plate frame. The short tabs on the plate frame must point towards the wall.
- ▶ Position the adaptor board on the control unit so that the terminal strips are not covered.

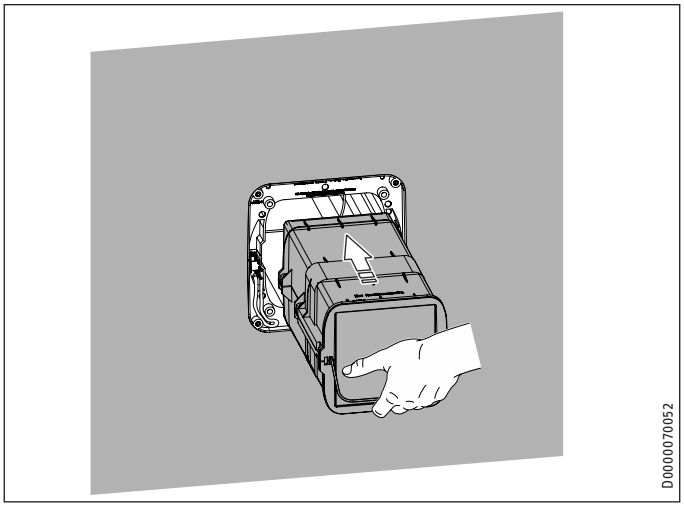
Note
The existing cable between the adaptor board and the programming unit must not be extended.

- ▶ Screw the plate frame onto the flush box. The tabs must be facing up and down.
- ▶ Position the cover frame on the plate frame.
- ▶ Place the programming unit in the cover frame aperture. Carefully push the programming unit until it clicks into place in the plate frame.

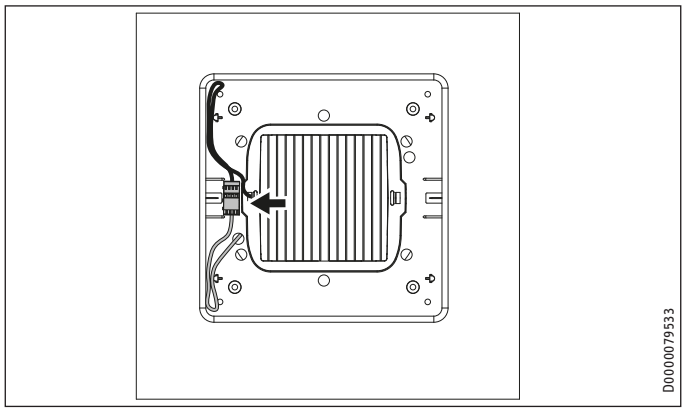
12.9 Installing the fan unit



- ▶ Remove the support elements from the wall mount casing.
- ▶ Clean the wall mount casing.

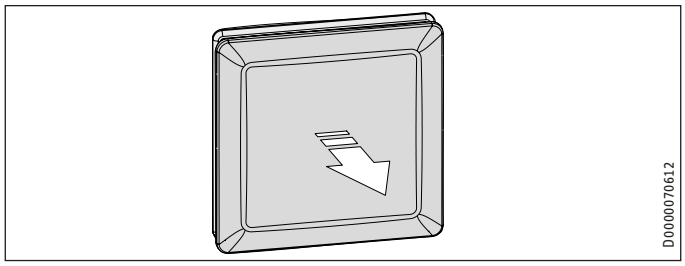


- ▶ Push the fan unit into the wall mount casing so that the bracket is inside the building at the bottom.
- ▶ Ensure that the fan unit is not wedged.
- ▶ Push the fan unit as far as it will go into the wall mount casing.
- ▶ Plug the fan unit plug into the plug-in connection.

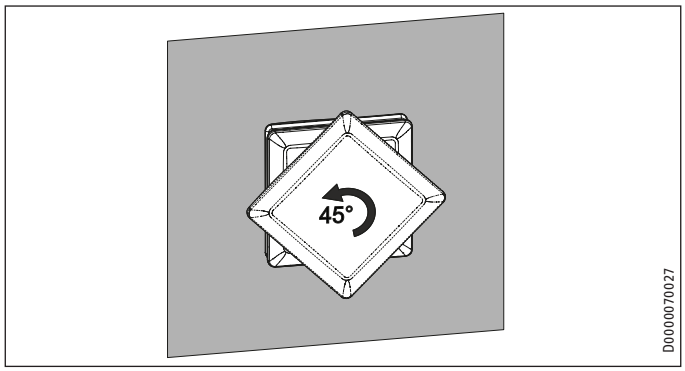


- ▶ Carefully push the plug-in connection from the right into the retainer.
- ▶ Clamp the cable in a loop underneath the plug-in connection between the plastic bosses.

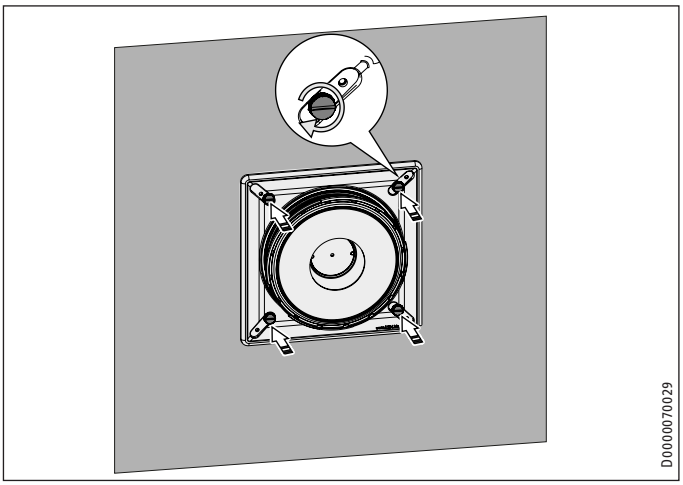
12.10 Installing the internal panel



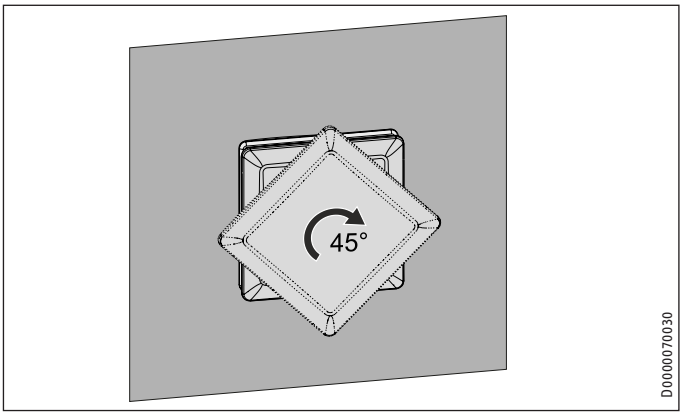
- ▶ If the internal panel is not open, carefully pull the internal panel cover slightly back from the base plate.



- ▶ Rotate the internal panel cover 45° anti-clockwise.
- ▶ Remove the cover.



- ▶ Use the knurled screws included in the standard delivery to secure the internal panel base plate to the wall mount casing.



- ▶ Fit the internal panel cover on the base plate with a 45° offset.
- ▶ Rotate the internal panel cover 45° clockwise.
- ▶ Close the internal panel by carefully pressing the cover onto the base plate.

Note
Only open the internal panel just before commissioning.

13. Commissioning

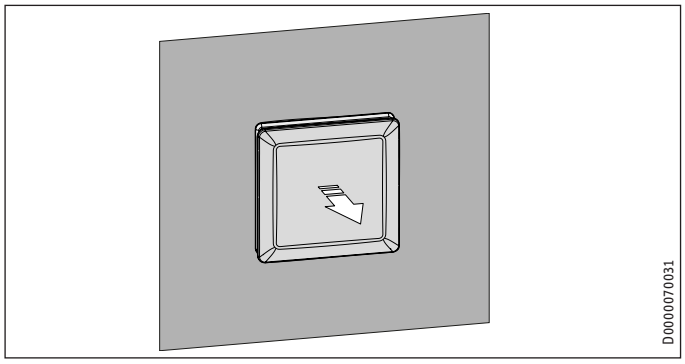
13.1 Initial start-up

13.1.1 Checks before commissioning

All electrical cables must be installed correctly by a qualified contractor.

The fan must be able to rotate freely. There should not be any obstructions in the area of the fan.

13.1.2 Opening the internal panel



▶ Carefully pull the internal panel cover slightly back from the wall.

13.1.3 Switching on the power supply

▶ Switch on the power supply to the appliance via the fuse/ MCB in the fuse box.

Display during appliance start-up

All indicators on the programming unit light up for a few seconds.

Of the indicators on the left, a further indicator goes off every two seconds.

All indicators flash at the frequency of the connected system.

Indicator flashes x times	Control
1	LTM AC 200-50
2	LTM AC 1230
3	LTM TL 1230 LA 11
4	ZLWE 40-2, ZLWE 40-4, ZLWE 40-8, ZTDL 40-2, ZTDL 40-4, ZTDL 40-8,
5	VLR 70 CU, VLR 100 CU

13.1.4 Programming the control unit

First, you need to select the number of appliances connected to the control unit.

▶ Press and hold down the 4 buttons on the programming unit simultaneously for more than 5 seconds until the two operating mode indicators light up.

Display	Number of appliances						
	2	3	4	5	6	7	8
III	○	○	○	○	○	○	○
II	○	○	○	○	○	○	○
I	○	○	○	☼	○	●	○
Filter	☼	●	☼	●	☼	●	☼

▶ Set the number of connected appliances using the "UP" and "DOWN" buttons.

▶ Press the "Differential mode" and "Cross-ventilation" buttons simultaneously for at least 3 seconds.

▶ All programming unit indicators light up briefly. The appliances and the programming unit are then ready for operation.

▶ Check the appliance functions.

13.2 Recommissioning

▶ Open the internal panel.

▶ If the fan unit has been removed and the wall mount casing is filled with insulation material, remove the insulation material.

▶ Push the fan unit into the wall mount casing so that the bracket is inside the building at the bottom.

14. Appliance shutdown

14.1 Temporary shutdown

▶ Switch off the power supply to the appliance via the fuse/ MCB in the fuse box.

▶ To prevent heat losses, close the internal panel.

14.2 Shutdown for a prolonged period

▶ Remove the internal panel.

▶ Use the bracket to pull the fan unit out of the wall mount casing.

▶ Fill the wall mount casing with insulation material. This makes it easier to install a new appliance later on.

▶ Close the internal panel.+

15. Troubleshooting

"Fault" indicator flashes x times	Cause	Remedy
1	Fan fault	Identify which fan the fault relates to. If a fan is blocked, remove the cause.
		At least one fan emits a false alarm signal via the yellow wire. Check the voltage (yellow wire – GND). Standard mode: > 14.4 V Alarm: < 1.65 V Undefined state: 1.65 V < x < 14.4 V
		Replace the fan if necessary.
2	Level error during system detection	Check the fan power supply.
		Check that the yellow wire of the fan is connected correctly.
		Check the fan alarm output.
3	Communication fault	Check the wires between the programming unit and the adaptor board.
		Check that the adaptor board is correctly plugged into the control unit. See chapter "Installation / Electrical connection / Connecting the programming unit to the control unit".
		Check whether a contact on the adaptor board is broken or bent.
4	Fault in system detection (stability fault)	Check the fan power supply.
		Check that the yellow wire of the fan is connected correctly.
		Check the fan alarm output.
5	The programming unit and control structure are not compatible.	Look up the system components on the programming unit. Check the compatibility of the installed system components.
		Replace the programming unit with a compatible one.
Flashes continuously	The control unit is not programmed correctly.	Pair the control unit again. If pairing is unsuccessful, restore the factory settings with a reset.

16. Specification

		VLR 70 S Trend EN	VLR 70 L Trend EN
		200002	201458
Sound emissions			
Sound power level Lwtl relative to air flow rate	dB(A)	35 (at 20 m³/h)	35 (at 20 m³/h)
Application limits			
Operating temperature range	°C	-25...+40	-25...+40
Electrical data			
Power consumption, ventilation	W	12	12
Power consumption	W	2-12	2-12
Rated voltage	V	24	24
Max. current consumption	A	0.5	0.5
Versions			
Filter class		ePM1 ≥ 50 % (F7) | ISO Coarse > 30 % (G2)	ePM1 ≥ 50 % (F7) | ISO Coarse > 30 % (G2)
IP rating		IP21	IP21
Dimensions			
Height	mm	285	285
Width	mm	360	360
Depth	mm	590	780
Maximum altitude for installation	m	2000	2000
Min. outlet aperture	mm	Ø 200, square 185x185	Ø 200, square 185x185
Weights			
Weight	kg	5.2	5.2
Values			
Air flow rate	m³/h	20/30/40/49/70	20/30/40/49/70
Air flow rate for differential mode	m³/h	10/15/20/24.5/35	10/15/20/24.5/35
Heat recovery level up to	%	92	92
Wall thickness	mm	100 - 300	300 - 550

Further details

		VLR 70 S Trend EN	VLR 70 L Trend EN
Software version		≥ 3.0.0	≥ 3.0.0

Guarantee

The guarantee conditions of our German companies do not apply to appliances acquired outside of Germany. In countries where our subsidiaries sell our products a guarantee can only be issued by those subsidiaries. Such guarantee is only granted if the subsidiary has issued its own terms of guarantee. No other guarantee will be granted.

We shall not provide any guarantee for appliances acquired in countries where we have no subsidiary to sell our products. This will not affect warranties issued by any importers.

Environment and recycling

We would ask you to help protect the environment. After use, dispose of the various materials in accordance with national regulations.

Warranty Stiebel Eltron Australia Only - According to national regulations in Australia

STIEBEL ELTRON solutions do not only convince with premium quality, but also outstanding reliability. If you encounter problems with one of our products, rest assured that our national service team will take care of it. We pride ourselves with great customer service as we consider this the basis for a long and successful partnership. For further information, please refer to the detailed warranty conditions listed below or contact our service team on 1800 153 351.

Australian Consumer Law

1. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

2. The STIEBEL ELTRON warranty for the unit is in addition to any rights and remedies you may have under the Australian Consumer Law.

3. Without excluding or limiting any rights you may have under the Australian Consumer Law, any guarantees or warranties that would otherwise be implied by law are excluded. If your rights under the Australian Consumer Law can be limited, they are limited to the maximum extent permitted by the Australian Consumer Law.

Who gives the warranty

4. The warranty is given by Stiebel Eltron (Aust) Pty Ltd (A.B.N. 82 066 271 083) of 294 Salmon Street, Port Melbourne, Victoria, 3207 (“we”, “us” or “our”).

The unit

5. This warranty applies to STIEBEL ELTRON Ventilation Solutions – Model VLR 70 S Trend EN and VLR 70 L Trend EN (the “unit”).

The warranty period

6. The warranty period commences on the date of completion of the installation of the unit. Where the date of completion of installation is not known, then the warranty period will commence 2 months after the date of manufacture.

7. The warranty period for a unit used for domestic purposes is shown in the table below. Domestic purposes means that the unit is used in a domestic dwelling.

Component	Warranty period
All components	2 years from the date of completion of the installation of the unit.

8. The warranty period for a unit used for commercial purposes is shown in the table below. Commercial purposes means that the unit is used for a non-domestic purpose and includes but is not limited to being used in a motel, hotel, mining camp or nursing home.

Component	Warranty period
All components	2 years from the date of completion of the installation of the unit.

Warranty entitlement

9. You are only entitled to make a warranty claim under this warranty if:

9.1. you own the unit or if you have the owner’s written consent to represent the owner of the unit;

9.2. you contact us within a reasonable time of discovering the problem with the unit and in any event within 30 days;

Warranty claim

10. To make a valid warranty claim you must provide us with the following information:

10.1. the model number of the unit;

10.2. a description of the problem with the unit;

10.3. the name, address and contact details (such as phone number and e-mail address) of the owner;

10.4. the address where the unit is installed and the location (e.g. in laundry);

10.5. the serial number of the unit;

10.6. the date of purchase of the unit and the name of the seller of the unit;

10.7. the date of installation of the unit;

10.8. a copy of the certificate of compliance when the unit was installed.

11. The contact details for you to make your warranty claim are:

Name:	Stiebel Eltron (Aust) Pty Ltd
Address:	294 Salmon Street, Port Melbourne VIC 3207
Telephone:	1800 153 351 (8.00 am to 5.00 pm AEST Monday to Friday)
Contact person:	Customer Service Representative
E-mail:	service@stiebel-eltron.com.au

12. We will arrange a suitable time with you to inspect and test the unit.

Warranty

13. Subject to the warranty exclusions, we will repair or replace, at our absolute discretion, a faulty component in your unit free of charge if it fails to operate in accordance with its specifications, and you make a valid warranty claim in accordance with this warranty, during the warranty period.

14. If we repair or replace a faulty component to your unit under this warranty, the warranty period is not extended from the time of the repair or replacement.

Warranty exclusions

15. We may reject your warranty claim if:

15.1. the unit was not installed by a registered and suitably qualified tradesperson.

15.2. the unit was not installed and commissioned:

a) in Australia;

b) in accordance with the Operating and Installation Guide (which is available on the Stiebel Eltron Australia website and request);

c) in accordance with the relevant statutory and other legal requirements of the State or Territory the unit is installed.

15.3. the unit has not been operated or maintained in accordance with the Operating and Installation Guide.

15.4. the unit does not bear its original Serial Number or Rating Label.

15.5. the unit was damaged by or is faulty due to any or any combination of the following:

a) normal fair wear and tear;

b) connection to an incorrect or faulty power supply;

c) connection to faulty equipment, such as a faulty circuit breaker;

d) accidental or malicious damage;

e) act of God, flood, storm, fire, lightning strike, cyclones, earthquakes, natural disasters or other similar actions of the elements;

f) wiring not to AS/NZS 3000 standards.

15.6. the unit was damaged before it was installed e.g. it was damaged in transit.

15.7. an unauthorised person has modified, serviced, repaired or attempted to repair the unit without our written consent.

15.8. non genuine parts other than those manufactured or approved by us have been used on the unit.

16. We may charge you:

16.1. for any additional transport costs if the unit is installed more than 30 kilometres from our closest authorised service technician.

16.2. for the extra time it takes our authorised service technician to access the unit for inspection and testing if it is not sited in accordance with the Operating and Installation Guide or not readily accessible for inspection.

16.3. for any extra costs of our authorised service technician to make the unit safe for inspection.

17. You must ensure that access to the unit by our authorised service technician is safe and free from obstruction.

18. Our authorised service technician may refuse to inspect and test the unit until you provide safe and free access to it, at your cost.

19. If we reject your warranty claim in accordance with clause 15, we may charge you for our authorised service technician's labour costs to inspect and test the unit.

20. In order to properly test the unit, we may remove it to another location for testing.

FILTER CHANGE REPORT

Internal filter

Date of filter change	Next filter change	Filter type

Deutschland
STIEBEL ELTRON GmbH & Co. KG
Dr.-Stiebel-Straße 33 | 37603 Holzminden
Tel. 05531 702-0 | Fax 05531 702-480
info@stiebel-eltron.de
www.stiebel-eltron.de

Verkauf Tel. 05531 702-110 | Fax 05531 702-95108 | info-center@stiebel-eltron.de
Kundendienst Tel. 05531 702-111 | Fax 05531 702-95890 | kundendienst@stiebel-eltron.de
Ersatzteilverkauf Tel. 05531 702-120 | Fax 05531 702-95335 | ersatzteile@stiebel-eltron.de

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