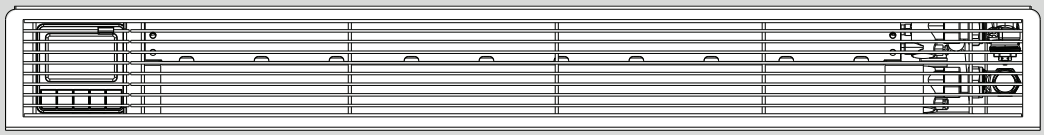
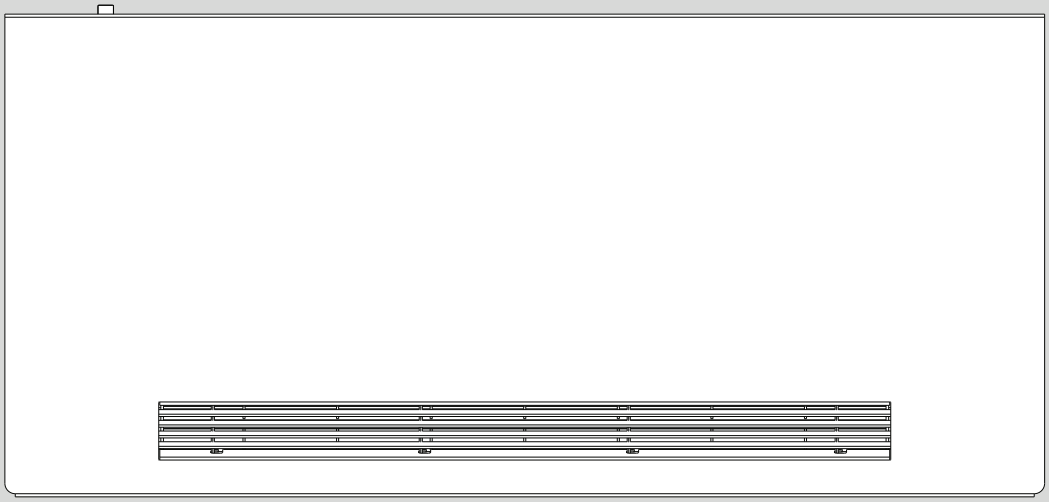
EN

THERMOBREEZE





z5010-02

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Purpose of this Manual

Please read this manual carefully and thoroughly before starting installation, commissioning, or maintenance of the unit.
Proper, optimized, and safe operation is only guaranteed if all instructions, safety guidelines, and recommendations in this document are strictly followed.

Failure to observe safety instructions, installation guidelines, warnings, or key notes can result in injury, damage to the unit, or suboptimal performance.

Keep this manual in a safe place for future reference. Ensure that it is always accessible to anyone operating or servicing the unit. The manual is also available on our website.

Note: The manufacturer accepts no liability for injury or damage resulting from failure to follow these instructions.

Safety Instructions

Read and follow the safety instructions below carefully to avoid personal injury, damage to the unit, or operational issues. These guidelines apply to installation, operation, maintenance and dismantling:

- This appliance may only be used for its intended purpose, and only in accordance with the instructions in this manual.
- Improper use can lead to injury, property damage, or major malfunctions.
- This appliance may be used by children aged 8 years and above, and by persons with reduced physical, sensory, or mental capabilities, or with limited experience and knowledge, provided they have been given supervision or instruction on the safe use of the appliance and understand the hazards involved.
- Children shall not play with the appliance, even if they are supervised.
- Cleaning and user maintenance shall not be made by children without supervision.
- Installation and repair work must be conducted by qualified personnel in compliance with national and European regulations.
- Do not modify or tamper with the unit. Unauthorized modifications compromise safety and performance and cancel the warranty.
- Ensure the electrical installation complies with applicable national standards.
- The unit is designed for wall-mounting only.
- Do not install above or below a power outlet.
- Connect only to a mains voltage as specified on the unit's nameplate. Use suitable circuit protection such as fuses or breakers.
- Do not insert objects into the air inlets or outlet at the front or top of the unit.
- Do not expose the unit to rain, excessive moisture, or extreme temperatures.
- Keep flammable materials or airflow-obstructing objects away from the unit.
- In case of malfunction, unusual noise, smoke, or odour, immediately switch off the unit and disconnect it from the power supply.
- For safe operation, the unit must be regularly inspected and maintained as outlined in this manual.

Manufacturer's declaration

SRG declares that the ThermoBreeze bears the CE mark and has been designed, manufactured and marketed in accordance with the following EEC standards:

- Low Voltage Directive (2014/35/EU)
- EMC Directive (2014/30/EU)
- RoHS Directive (2011/65/EU)

Symbols and Warnings

The following symbol is used in this manual to highlight important safety instructions and precautions:



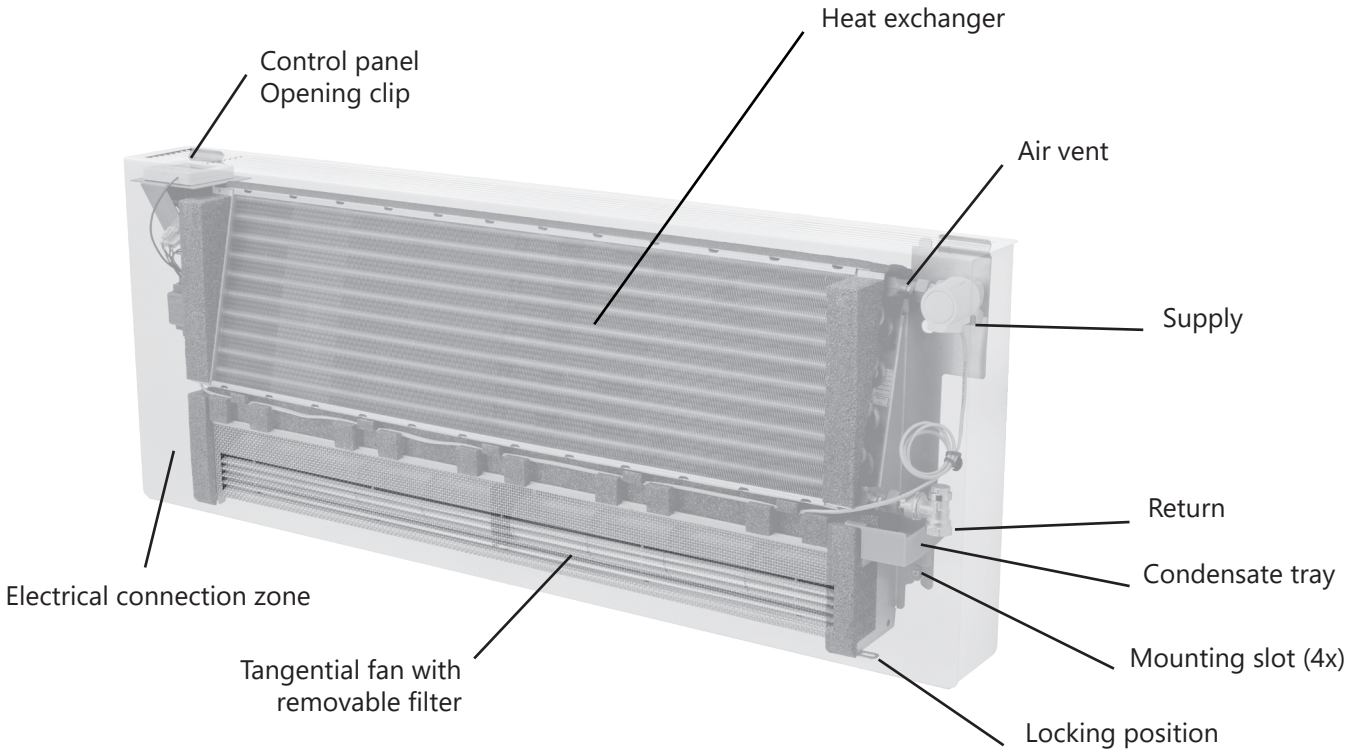
Technical specifications

Features & specifications



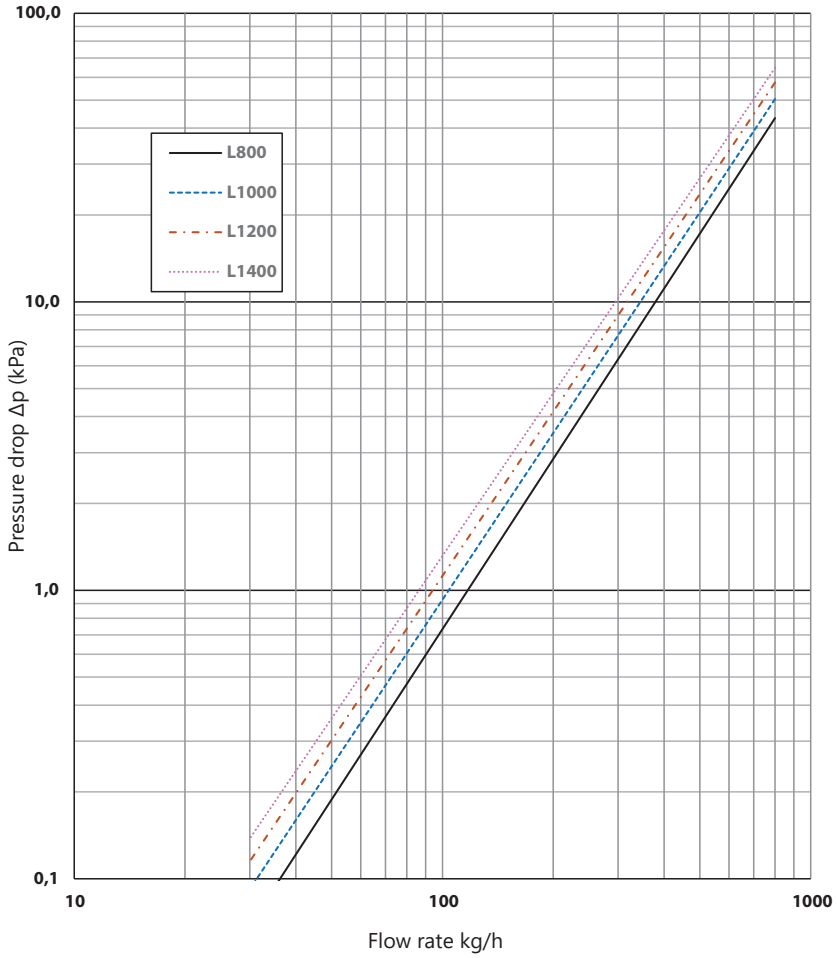
Model	ThermoBreeze			
Casing length (mm)	800	1000	1200	1400
Water content (Litre)	0,7	0,9	1,2	1,4
Weight (kg)	14,1	16,6	19,0	21,4
Fan type	1 tangential fan			
Max. working pressure (Bar)	10			
Max. water temperature (°C)	65			
Min. water temperature (°C)	5			
Connection	1/2" internal thread			
Power supply	220-240V ~50Hz			
Stand-by power (Watt)	0,75			
Max. electrical power (Watt)	19	29	33	42
Protection class	Class I - IPX0			
Sound pressure level (min - nom - max dB(A)*	9,3	12,8	16,2	19,7
	35,0	36,9	38,7	40,6
	50,7	51,5	52,2	53,0
Ambient temperature range (°C)	5°C to 55°C			
* Sound pressure levels calculated at a distance of 1 m, based on measured sound power according to EN 12102. Actual values may vary depending on the installation environment.				

Model overview

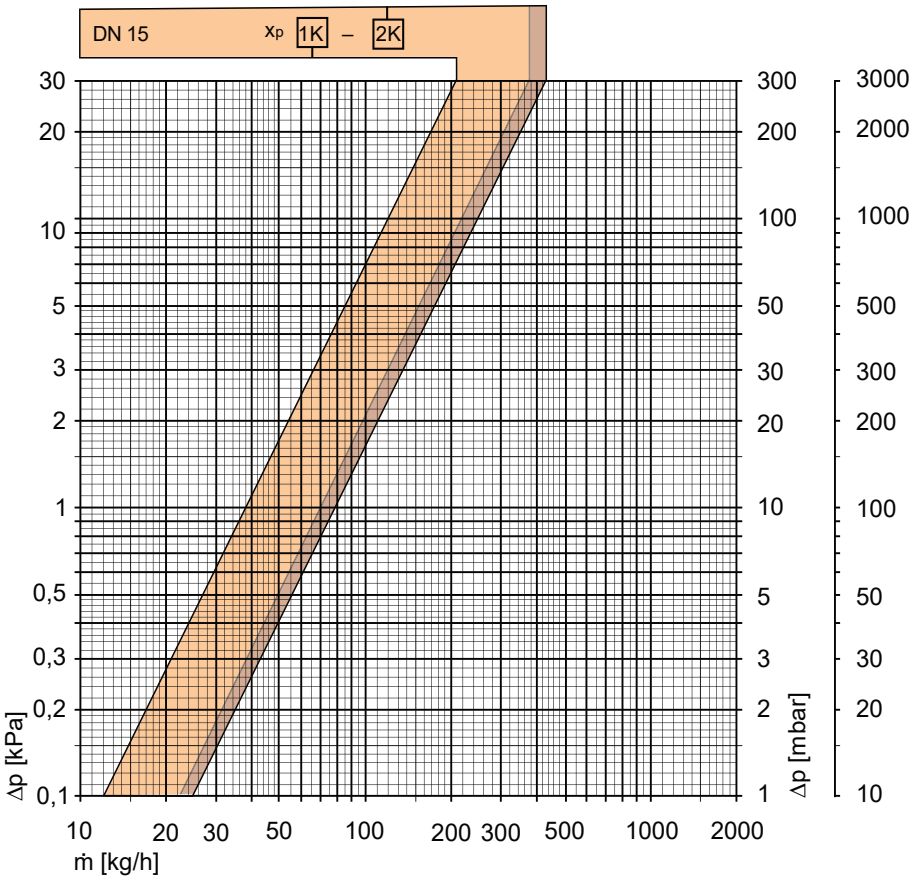


Pressure drop

Heat exchanger

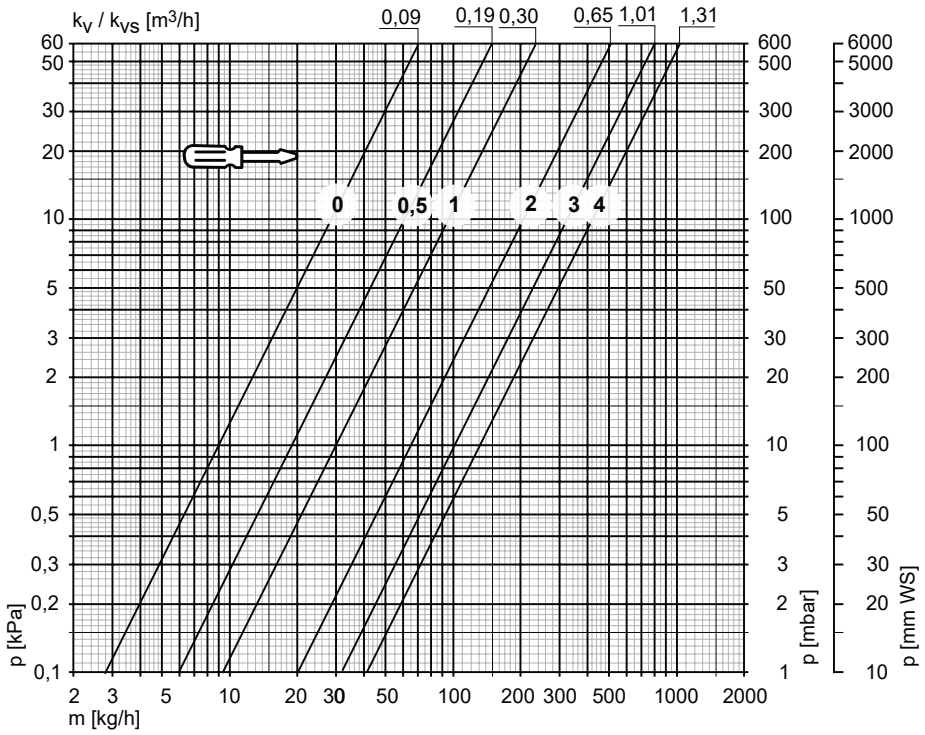


Thermostatic valve



	kv P-Band [K]			Kvs
	1,0	1,5	2,0	
DN 15	0,38	0,59	0,79	1,50

Lockshield valve



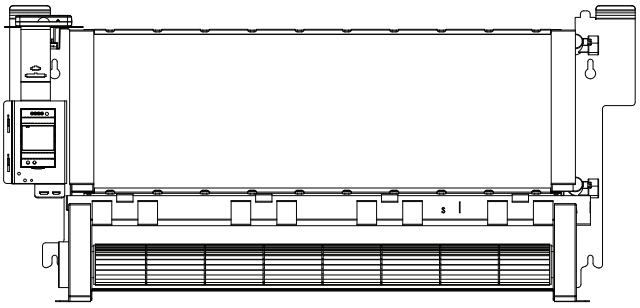
Follow the diagonal lines to determine the number of counterclockwise rotations

Unit installation

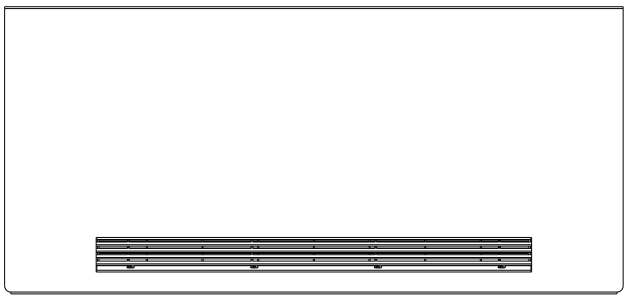
Package contents

A. Core unit
B. Casing
C. Thermostatic valve
D. Lockshield valve
E. Thermoelectric actuator and adaptor ring
F. Condensate tray
G. Locking screws
H. Wall plugs (Ø 8) and mounting screws
I. Opening clip
J. Installation and operating manual
K. Mounting template

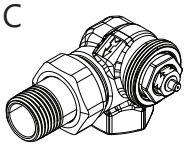
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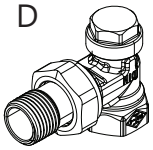
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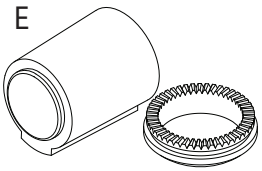
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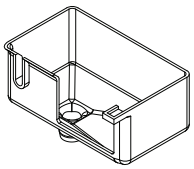
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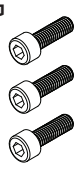
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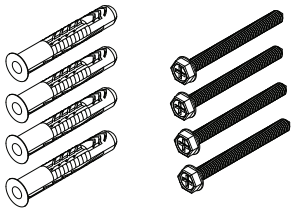
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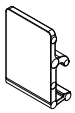
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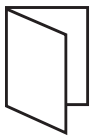
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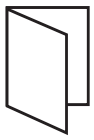
I



J

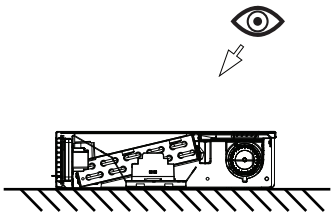


K

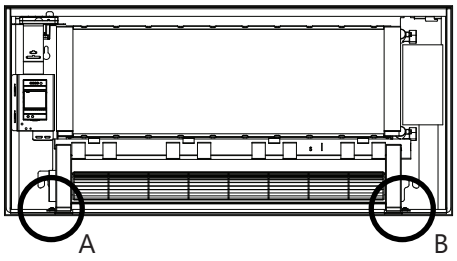


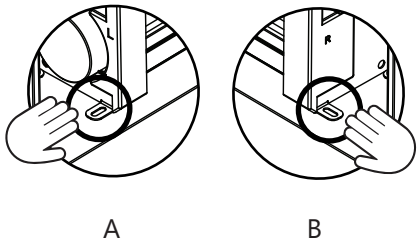
Unpacking the unit

Inspect the unit and all components for visible damage. Do not install it if damage is found. Wear gloves while handling the unit.

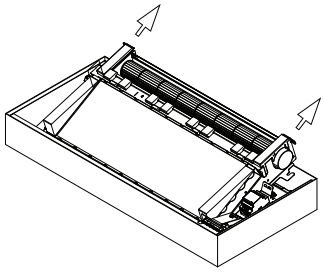


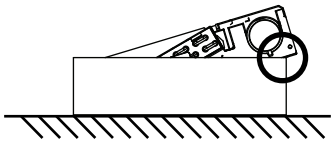
1. Place the packaging on a flat surface and remove accessories.



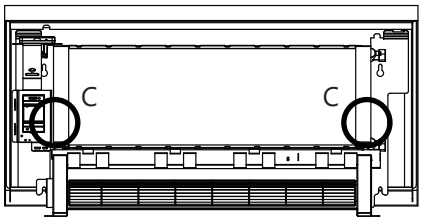


2. Grip the core unit with the two lower tabs (A and B).

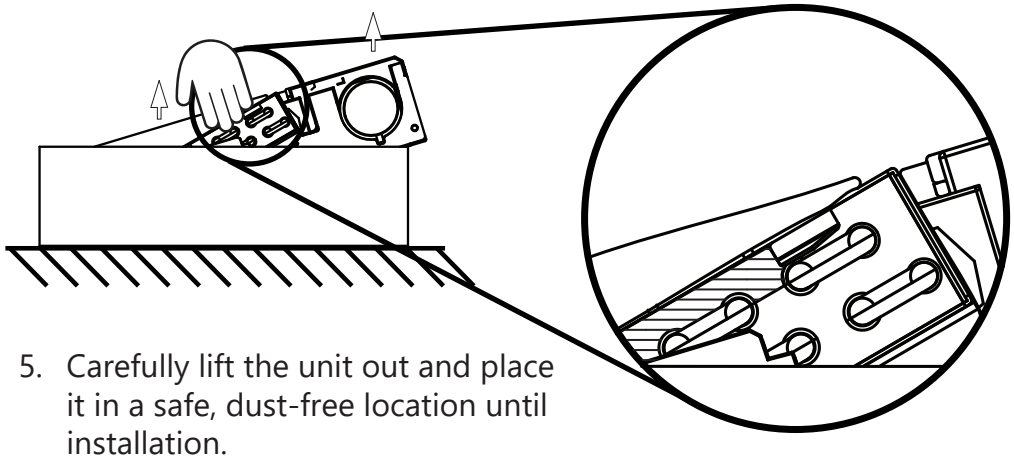




3. Pull up until the bottom of the unit rests on the box's edge.



4. Reposition your hands to the outer sides (Position C) of the heat exchanger and black EPP foam corners.



5. Carefully lift the unit out and place it in a safe, dust-free location until installation.

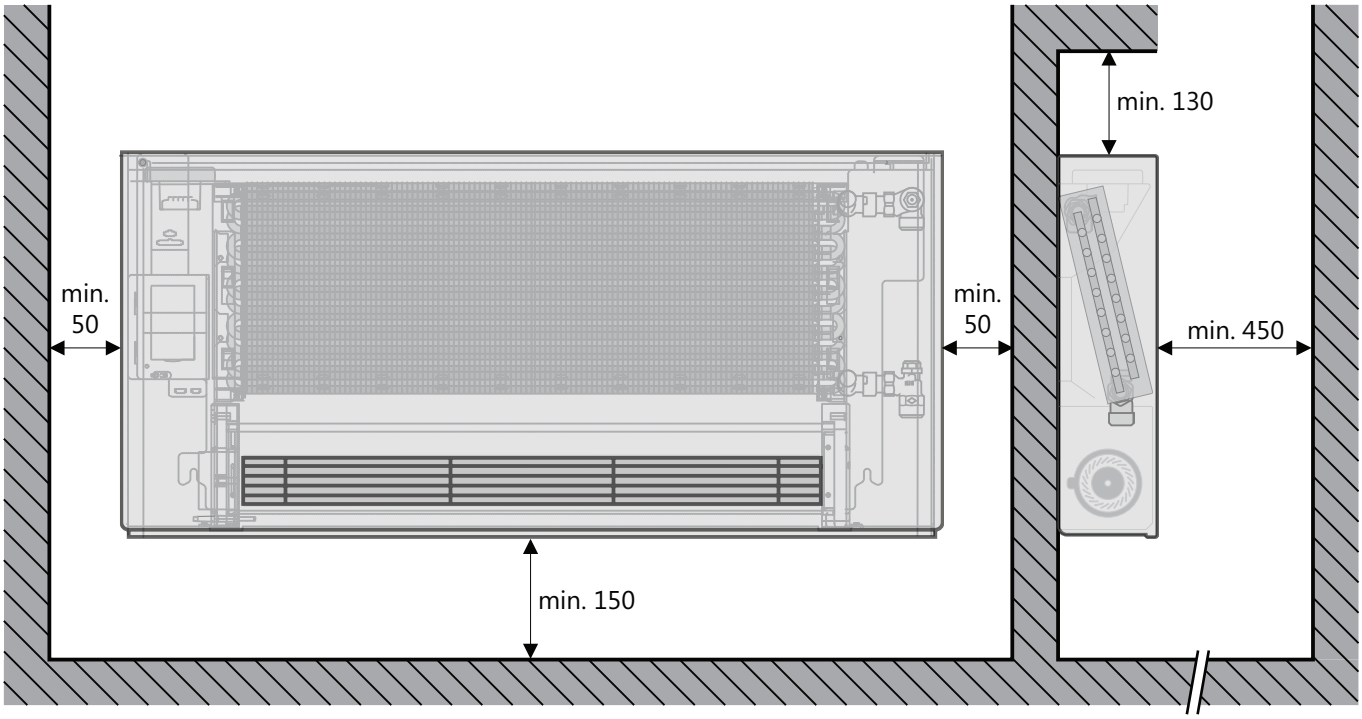
Preparation

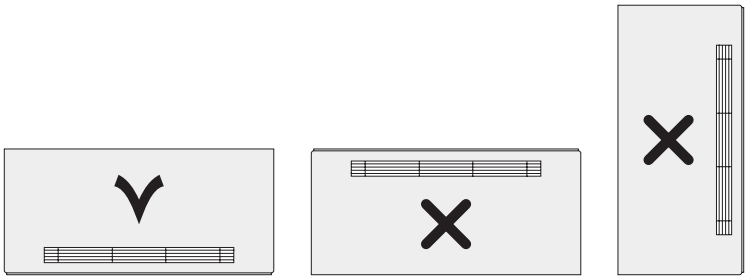
Centre connection (Optional)

If the optional centre connection is used, it should be installed first. Refer to the corresponding manual for proper instructions.

Installation requirements

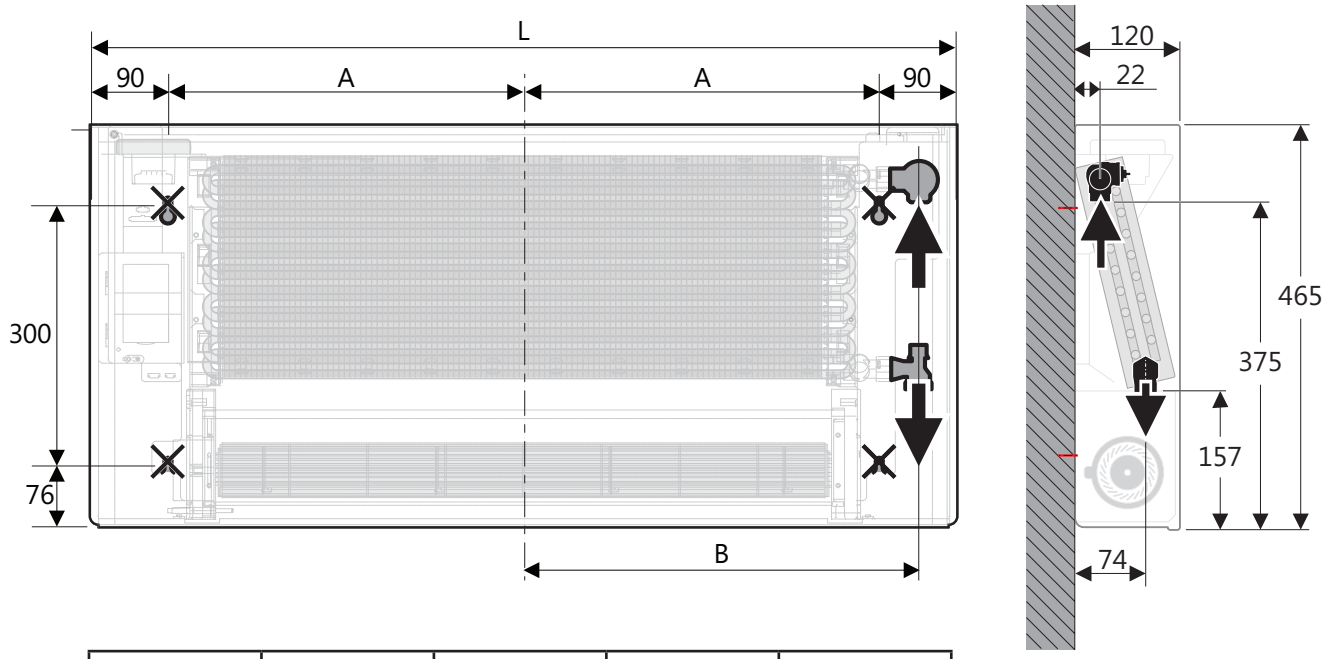
Maintain sufficient clearance from furniture or obstacles. The unit must remain accessible for service and repairs.
Do not mount the unit against the ceiling — wall mounting only.





Mounting

Mounting & Connection Points



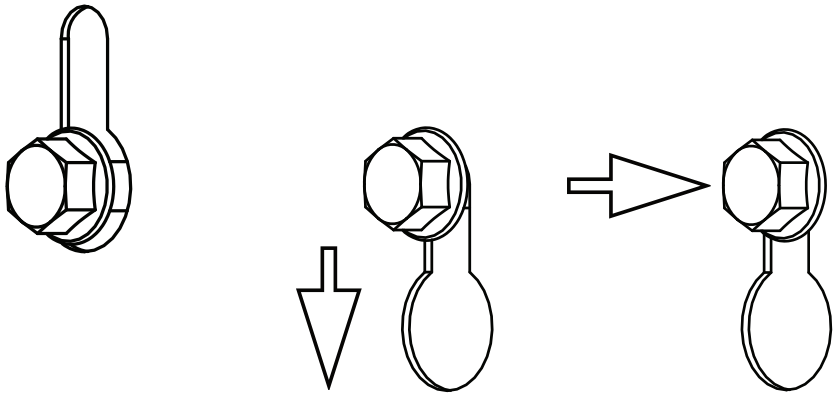
L	800	1000	1200	1400
A	310	410	510	610
B	375	475	575	675

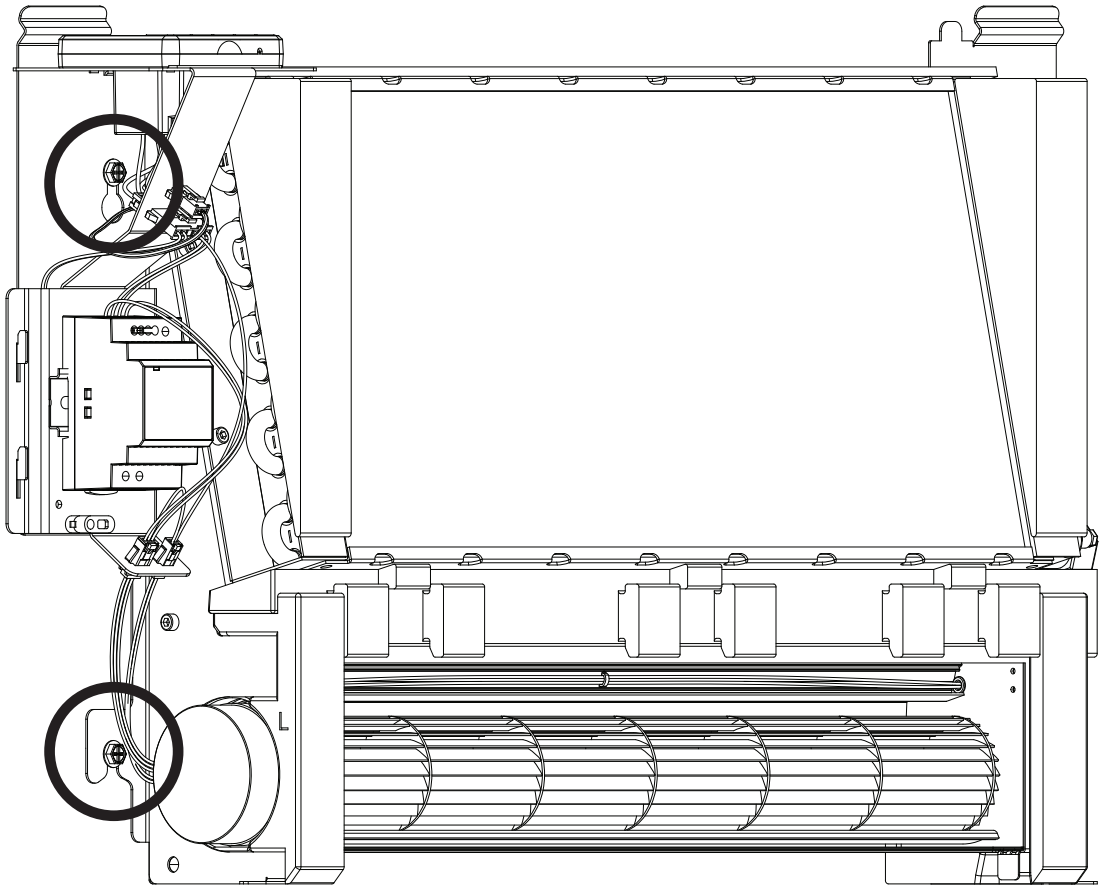
✕ = Positions of drilling holes ▲ = Water connections

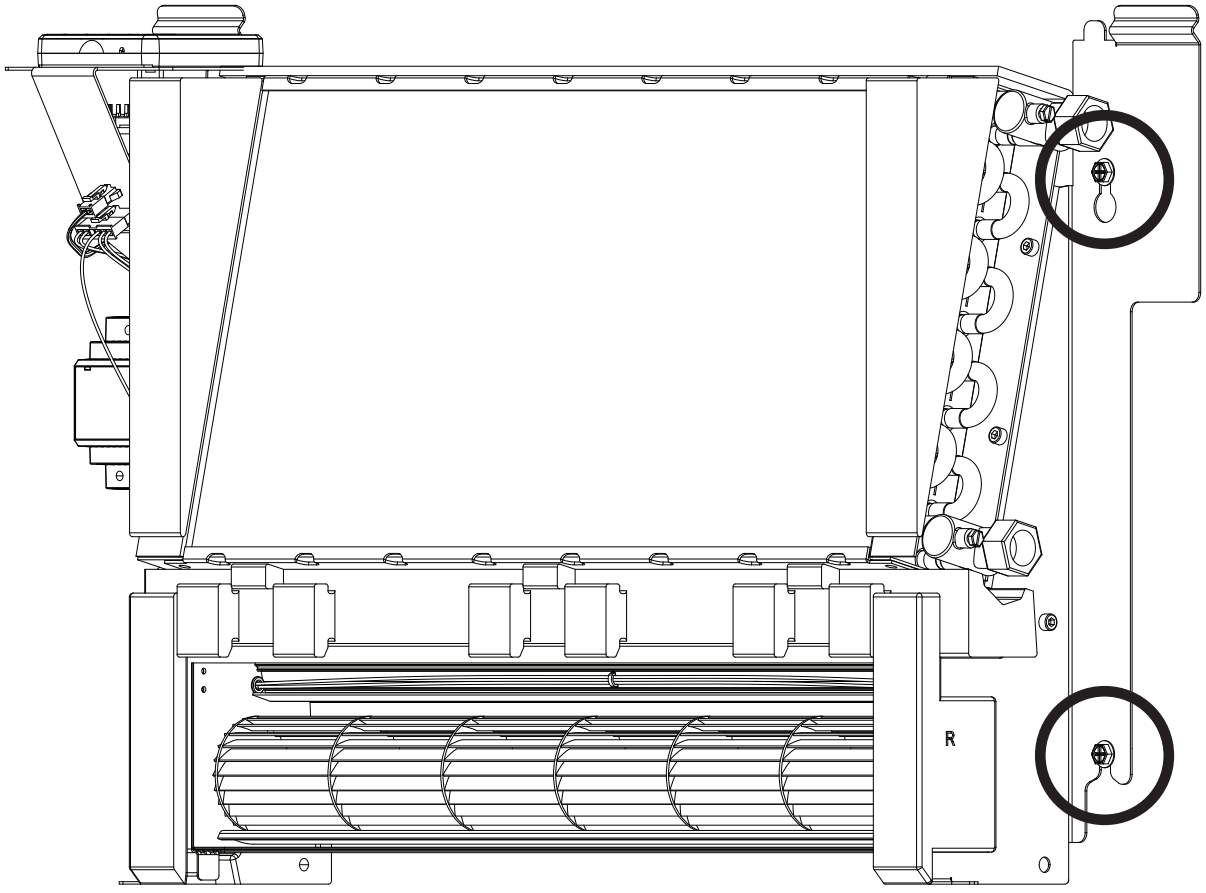
Wall installation

Mount the product on a flat, vertical wall in the correct orientation.

1. Drill Ø 8mm mounting holes according to the illustration above or the provided mounting template.
2. Insert plugs. Mount the screws, leaving a gap from wall (+/- 5mm).
3. Hang the core unit and ensure it is level and stable.
4. Fully tighten all 4 mounting screws.




L


R

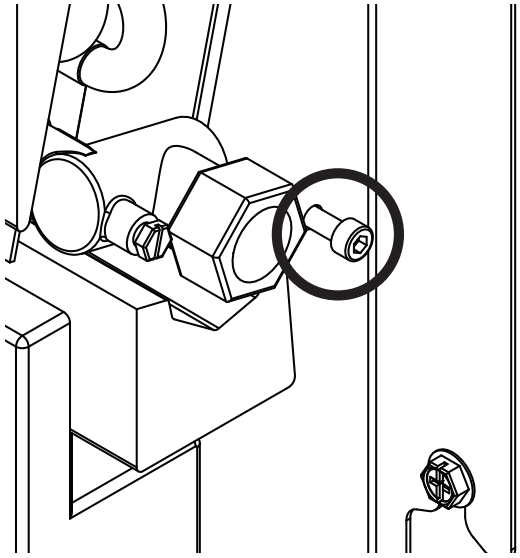
Connection to heating/cooling system

Deep Cooling precautions

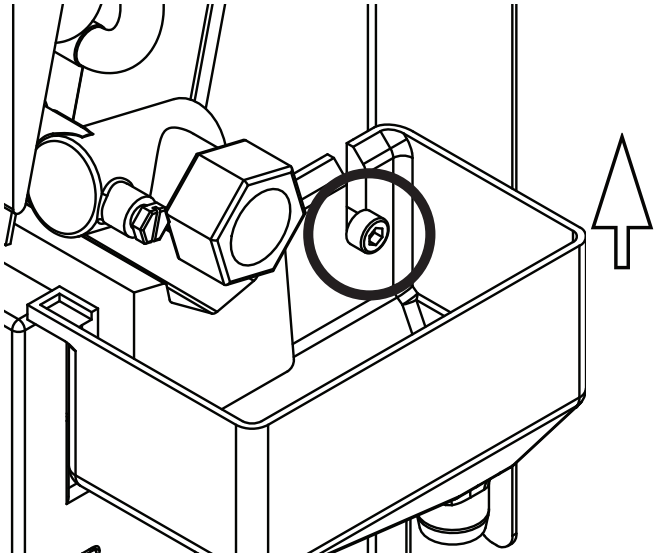
When cooling below dew point, the unit must be connected to the building's wastewater drain. Place the condensate tray below for this purpose and apply the necessary insulation to the supply and return lines.

Condensate tray installation

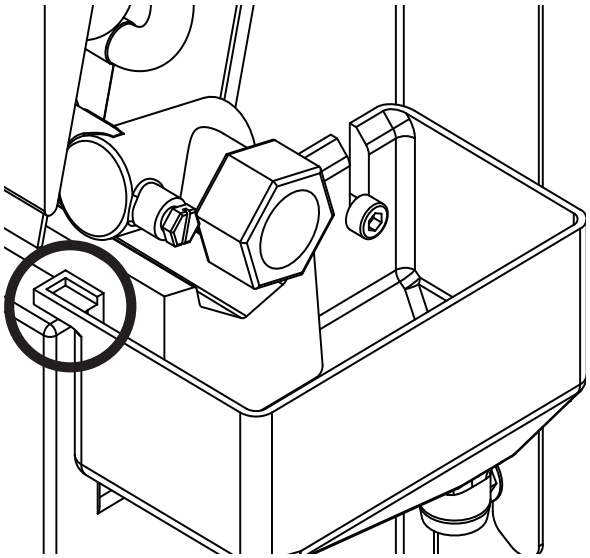
1. Unscrew the hex screw and replace it with one of the three M5x16 screws provided in the accessory bag. Screw this in a few millimeters.



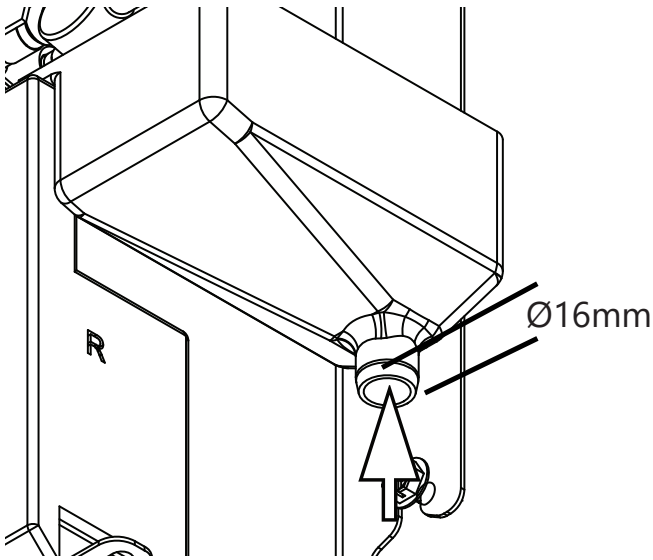
2. Position the tray, underneath the screw and push it up so that the screw slides into the recess of the tray.



3. Retighten the screw securely when the top left lip of the condensate tray rests on the black EPP foam bracket. The tray must hang level and firmly in place.



4. Connect the drainpipe, with an inner diameter of 16mm, directly to the tray's outlet. Clamp the connection to prevent leaks.

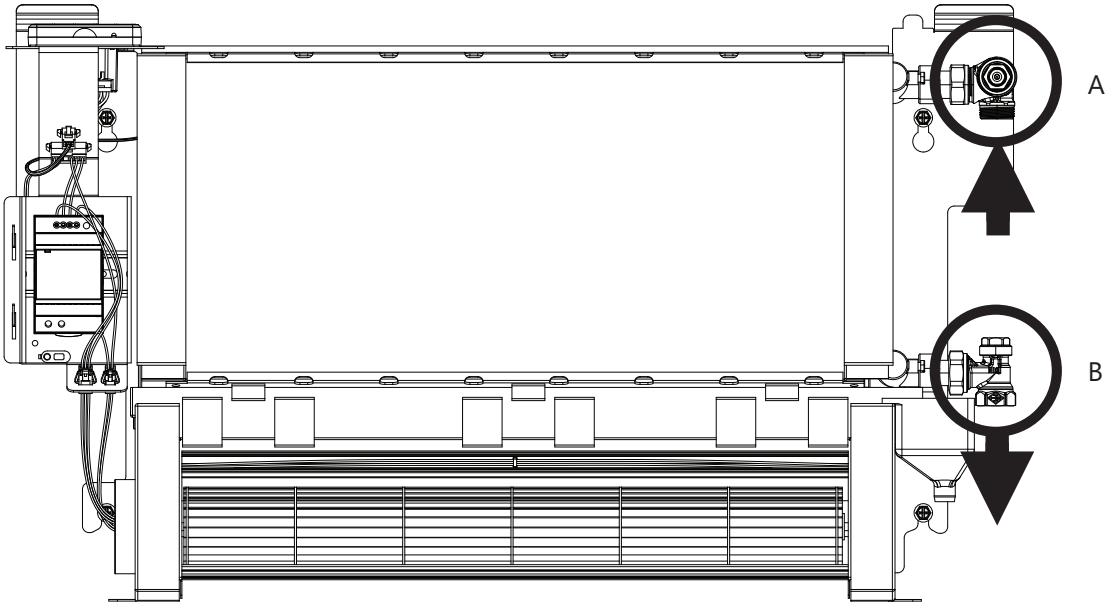


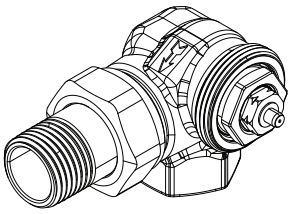
Ensure:

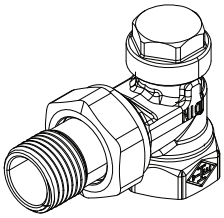
- Connection is made to wastewater drainage.
- A siphon is used to prevent odours.
- Drainage is assessed to confirm proper flow and odour control.

Connection to Heating/Cooling System

Connections are located on the right-hand side of the unit. Install the supplied valves onto the heat exchanger.



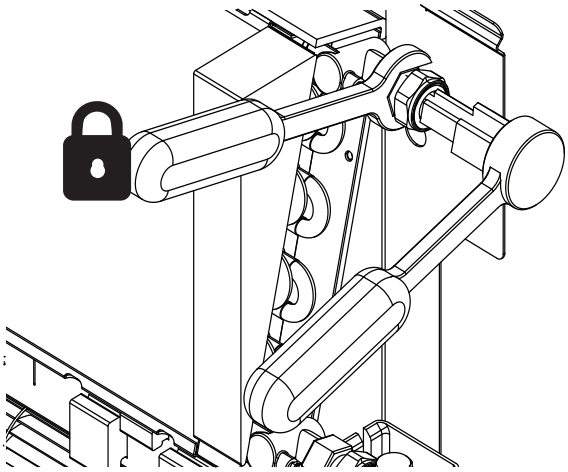


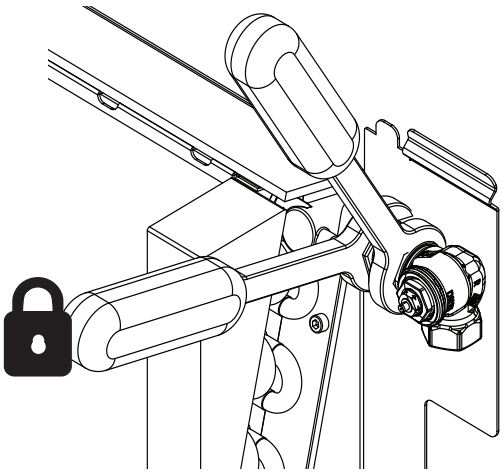


A - supply	B - return
Thermostatic valve	Adjustable lockshield valve
Connection pipework type: ½" internal thread	

Use appropriate sealing methods (e.g. PTFE tape, hemp, paste) to ensure leak-free joints.

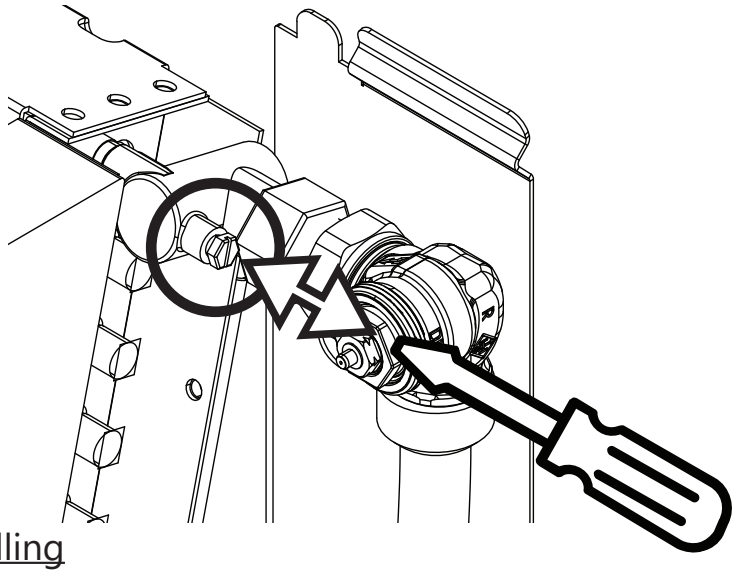
Always use a second wrench to support the heat exchanger collector when tightening to avoid applying torque to the solder joints.





Connect the supply and return pipes to the valves. Avoid stress on valves or pipes.

Once connected, fill the system and bleed the unit via the bleed screw at the top connection until water flows without air bubbles. Tighten the screw and check for leaks.



Shutting off and filling

1. Loosen the cap using a 19 mm open-ended spanner (see fig. 1).
2. Close the valve by turning the internal body clockwise with a 5 mm Allen key until it stops (see fig. 2).
3. Fill the unit.
4. Reopen the valve by turning the internal body anti-clockwise with the 5 mm Allen key until it stops (see fig. 2).

Setting the flow rate

1. Loosen the cap using a 19 mm open-ended spanner (see fig. 1).
2. Close the valve by turning the internal body clockwise with a 5 mm Allen key until it stops (see fig. 2).
3. Tighten the control cone using a slotted screwdriver by turning it clockwise until it stops (to minimum setting value 0) (see fig. 3).
4. Set the desired flow rate by turning the screwdriver back (anti-clockwise) to the required setting (see fig. 3). The setting value (= amount of turns anti-clockwise) can be derived from the diagram on page 8.
5. Reopen the valve by turning the internal body anti-clockwise with the 5 mm Allen key until it stops (see fig. 2).
6. Screw the cap back on and tighten it with the 19 mm spanner (see fig. 1).

fig. 1

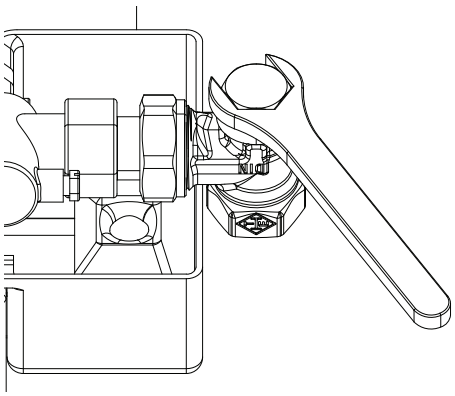


fig. 2

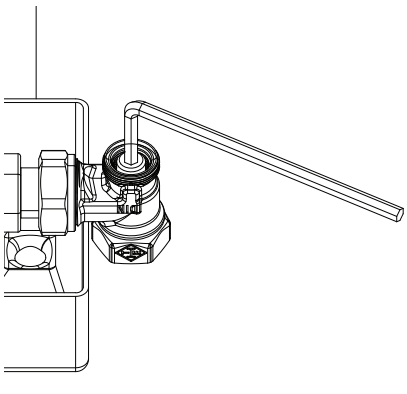
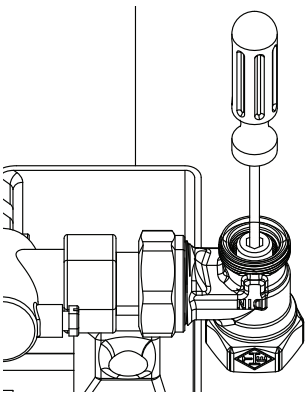


fig. 3



Electrical connection

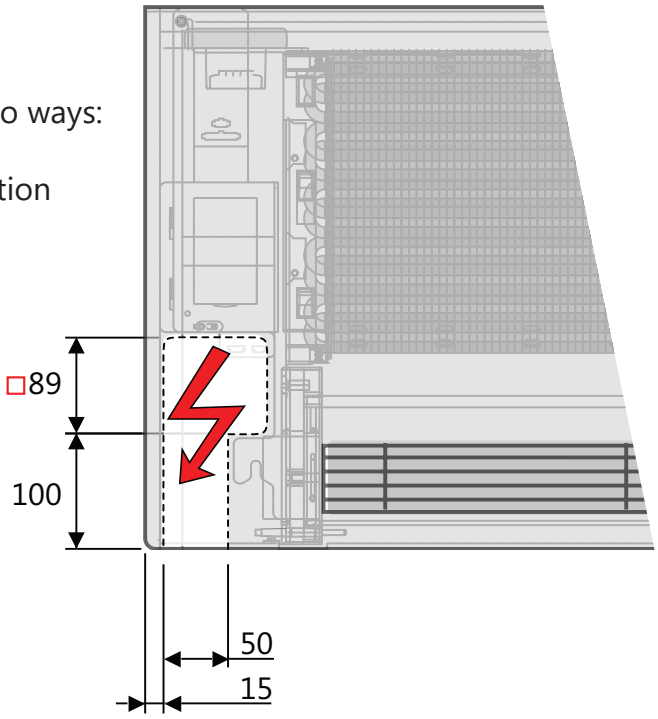
Connecting the power cable

The unit is supplied without a power cable. The electrical connection must be made via a suitably rated switch or circuit breaker, in accordance with local electrical regulations.

Mains connection options

The power cable may be connected in one of two ways:

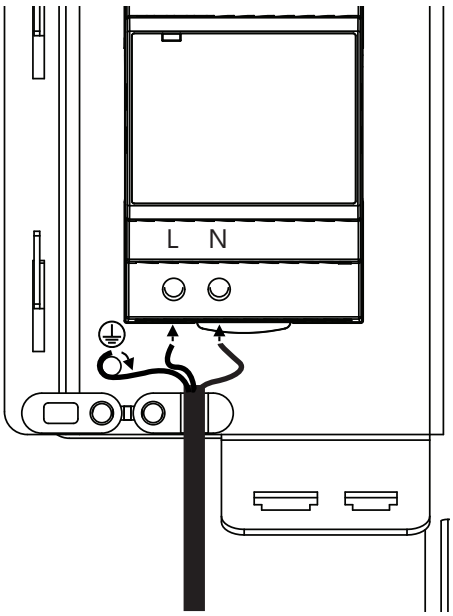
- Externally
- Internally: wired directly or via a built-in junction box mounted in the left bracket slot.

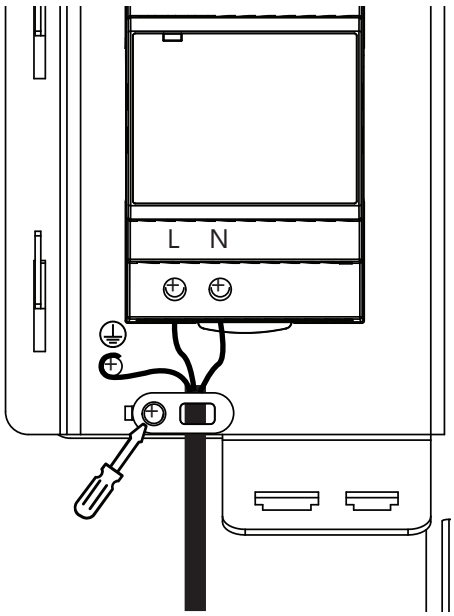


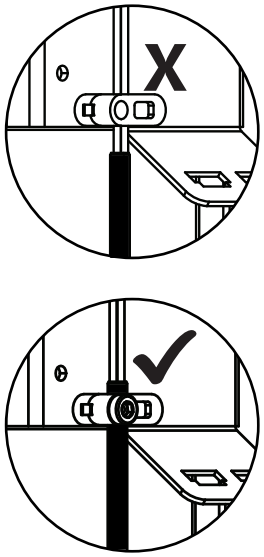
Wire the power cable as follows:

- Earth (green/yellow): To grounding screw on metal housing.
- Live/Neutral: To terminal block (L – N).

Ensure the entire cable, including outer sheath, passes through the strain relief. Tighten the strain relief to prevent pull-out under tension or movement.



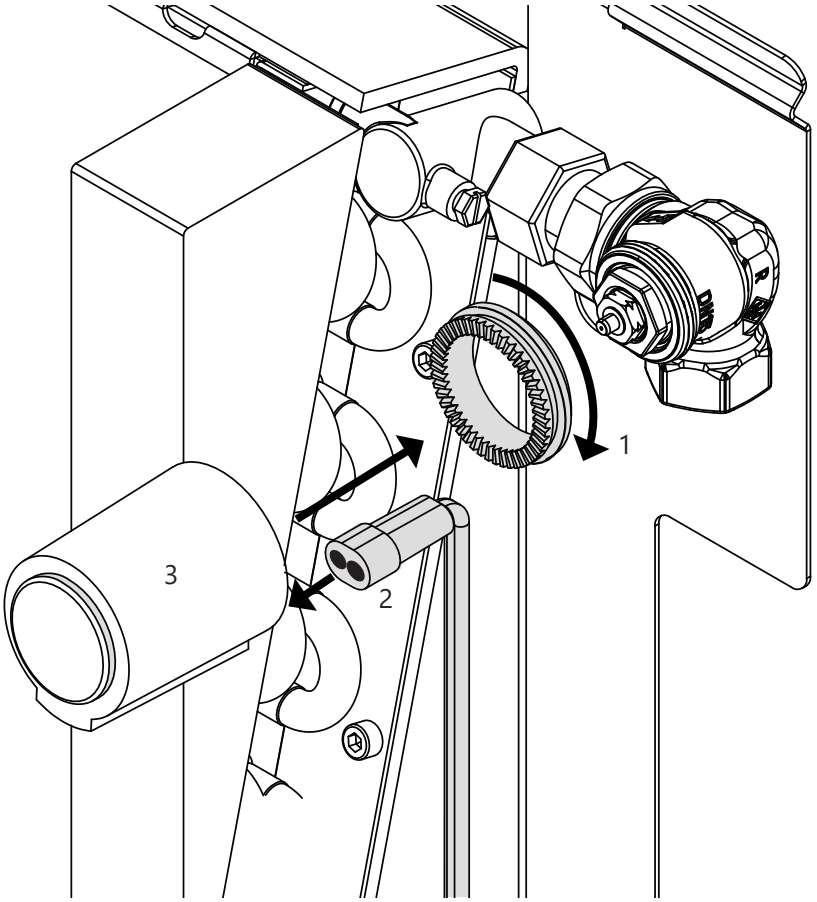




Actuator installation

Install the thermoelectric actuator on the valve in this order:

1. Fit the adapter ring on the valve and ensure it is secure.
2. Connect the signal cable to the actuator connector on the back.
3. Snap the actuator onto the ring until it clicks into place. It should sit straight and firm.

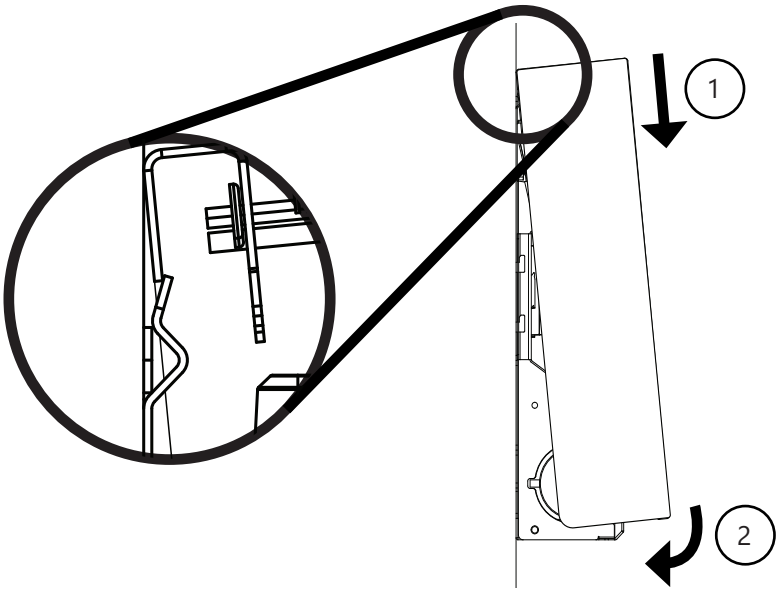


Coil any excess cable length and secure near the connection — avoid tight bends or cable strain. Ensure the actuator can move freely without interference.

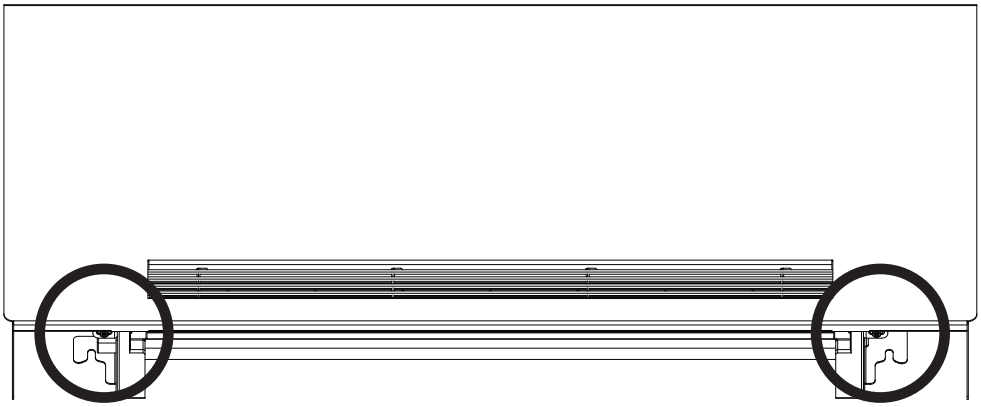
Casing installation

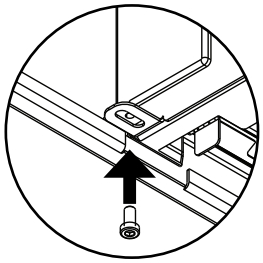
To complete the installation:

- Snap the casing onto the convector and ensure a secure fit.

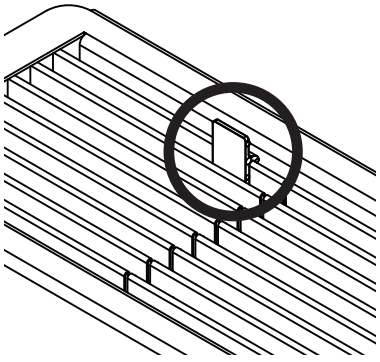


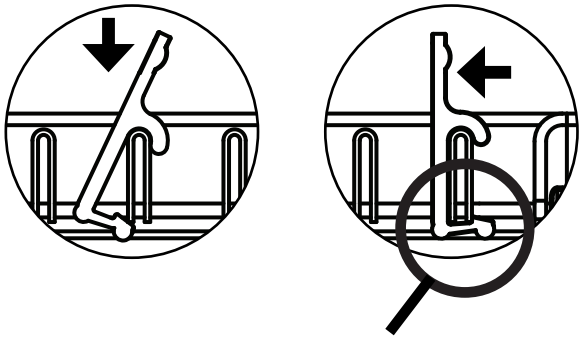
- Install the locking screws at the bottom to prevent accidental removal.





- Optionally, install the plastic opening clip to make it easier to open/close the grille during use. Place on top of a selected grille bar and pull top towards you until you hear a double click.

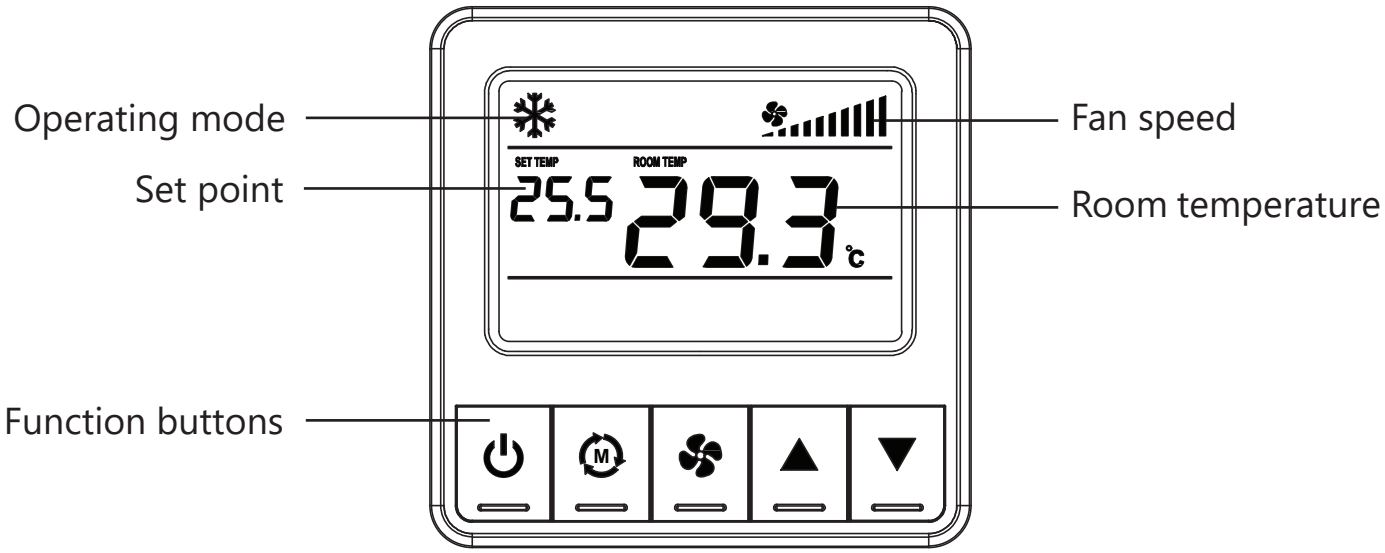




"Double CLICK"

- To remove the clip, pull the top towards you as well.

Operation and settings
Control panel overview



Operation

Power on/off

Use the power button ⏻ to switch the unit on or off (standby).
When powered on or when a button is pressed, the display will light up.
In standby mode, the display remains off, but the unit continues to monitor room temperature and will activate heating if frost protection is triggered.

Selecting the operating mode

Press the mode button Ⓜ to cycle through modes:

- Heating ☀
- Cooling ❄
- Ventilation

Heating

By default, the unit can heat the room when hot water is supplied between 28°C and 65°C. However, these limits can be adjusted in the parameter menu.

Note: If the mode ☀ icon is flashing, the required supply temperature has not yet been reached. This may take some time depending on the central heating system and the required opening time of the thermostatic valve.

Cooling ❄

By default, the unit can cool the room when cold water is supplied between 5°C and 22°C. However, these limits can also be adjusted in the parameter menu.

There are two cooling methods:

Cooling above dew point (Light Cooling)

Key considerations:
- Ensure the supply water temperature stays above the dew point.
- Increase the minimum cooling water temperature limit (e.g. 18°C) in the parameter menu as a precaution. By default, this is set to 5°C.
- Check the room's relative humidity and use a dew point calculator or chart to determine the minimum safe cooling water temperature.

To calculate the dew point, visit https://vr.henradstelrad.be/DEW-POINT.html or scan:

Cooling below dew point (Deep Cooling)

In this mode, water is cooler than the dew point, causing moisture from the air to condense on the heat exchanger. This increases cooling capacity but requires extra precautions:
- Connect a condensate drain with a siphon to the condensate tray.
- Insulate the supply and return lines to prevent dripping.
- Regularly inspect the drain for blockages or leaks.
- Avoid prolonged exposure to high humidity to prevent external condensation.

The inlet water temperature should always stay above the minimum of 5°C.

Ventilation

In this mode, the fan runs but the valve remains closed.
Automatic fan speed control is not available in ventilation mode — fan speed must be selected manually.

Fan speed

Press the fan button to cycle through the fan speeds and automatic mode.



Manual fan speed

The user can select fixed speeds (2–4–6–8–10) across all modes.
The fan will continue running at the selected speed until the user changes it, the target temperature is reached, or the unit is switched off.

Automatic fan speed

Fan speed is regulated based on the difference between actual and target room temperature.
To keep noise at a minimum, the maximum fan speed is limited in auto mode. These limits (6 in heating, 8 in cooling) can be changed in the parameter menu.

Fan-on delay

Due to the slow opening of the thermostatic valve, there may be a delay before the fan starts.

Setting the target temperature

Use the up/down arrows ▲ ▼ to adjust the target temperature in steps of 0.5°C.

Recommendation if the unit is in the same space as the home's main thermostat:
- In heating mode, set a higher target temperature than on the main thermostat.
- In cooling mode, set a lower target temperature than on the main thermostat.

Parameter settings

Users can adjust a range of parameters to tailor operation.

Accessing the Parameter Menu

- Use the mode button to switch to ventilation mode .
- In ventilation mode, press and hold the mode button for 5 seconds.
- Enter the password "987" using the mode and arrow buttons.
- Confirm with the mode button — the menu will appear.
- Use the mode button to scroll through parameters.
- Use arrow buttons to adjust values.
- Confirm by pressing the mode button again or wait 3 seconds.
- Exit the menu by pressing the power button.

Settings

No.	Parameter	Description	Default value
01	Modbus address	ID.1- ID.247	1
02	Baud rate	1 = 4800 | 2 = 9600 | 3 = 19200 | 4 = 38400	2
03	Modbus parity	0 = none | 1 = even | 2 = odd	0
04	Stopbits	1 = 1 Stopbit | 2 = 2 Stopbits	2
05	Temperature offset (room)	-5,0 K...+5,0 K	0
06	Temperature offset (water)	-5,0 K...+5,0 K	0
07	Pipe system	0 = 2-pipe	0
08	Factory reset	Set to 1 and press Mode button	0
09	Max fan speed (heating, auto mode)	1=1V...10=10V	6
10	Max fan speed (cooling, auto mode)	1=1V...10=10V	8
11	Min water temp (heating)	20=20°C...45=45°C	28
12	Max water temp (cooling)	18=18°C...25=25°C	22
13	Min water temp (cooling)	5=5°C...16=16°C	5
14	Fan off delay	1=1min...3=3min	1
15	Fan on delay	3=3min...10=10min	5

Error codes and warnings

E01	Water temperature sensor error
E02	Supply temperature exceeds maximum threshold
E03	Supply temperature outside operational range (blinking mode icon)
E04	Supply temperature below minimum threshold

Maintenance and cleaning

Important information

- All maintenance and repair work must be conducted by qualified professionals.
- Disconnect the unit from the power supply by switching off the main circuit breaker before any cleaning or maintenance.
- Allow components to cool to prevent risk of burns.
- Do not use solvents or aggressive detergents.

Regular maintenance

Periodic inspection and maintenance are essential for safe and efficient operation.

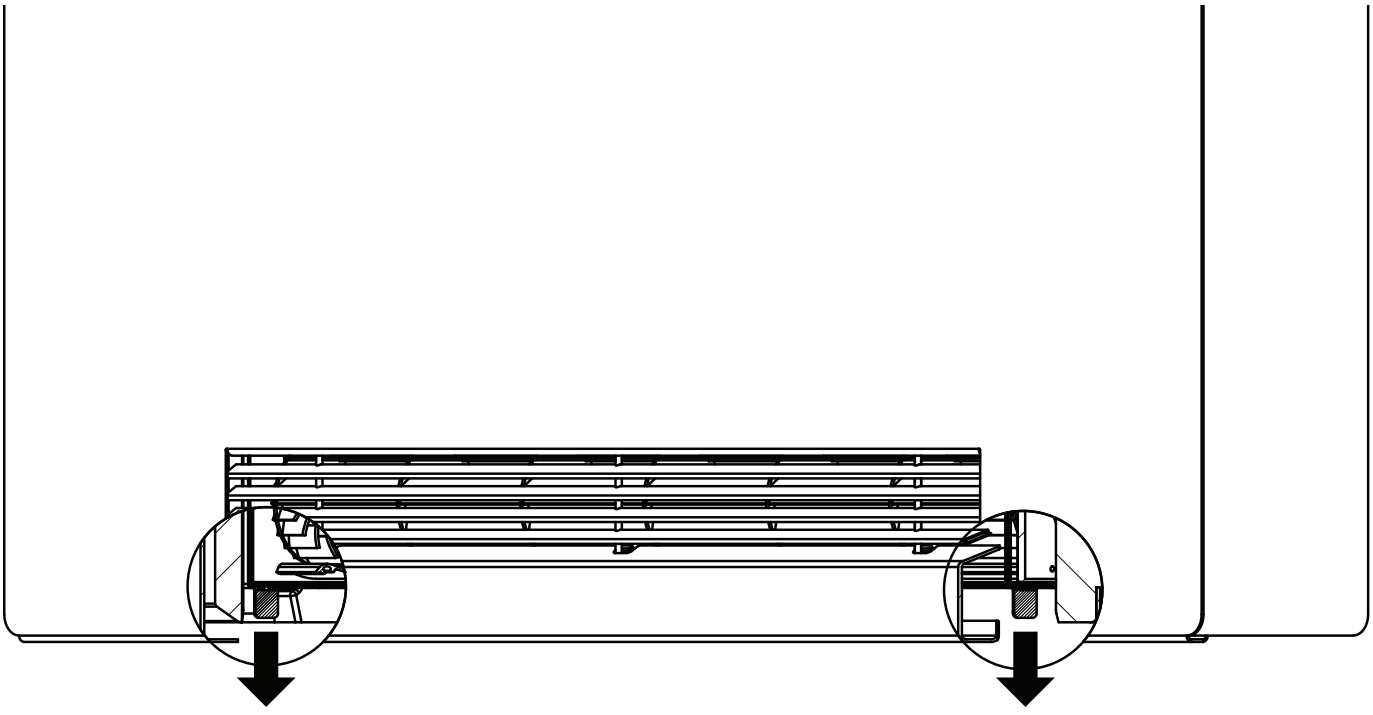
Annually:

- Inspect the heat exchanger. If necessary, remove dust or debris by vacuuming the internals with a soft-bristle brush.
- Clean the filter, air inlets and outlets
- Check the condensate drain
- Bleed the system if necessary

Cleaning the filter

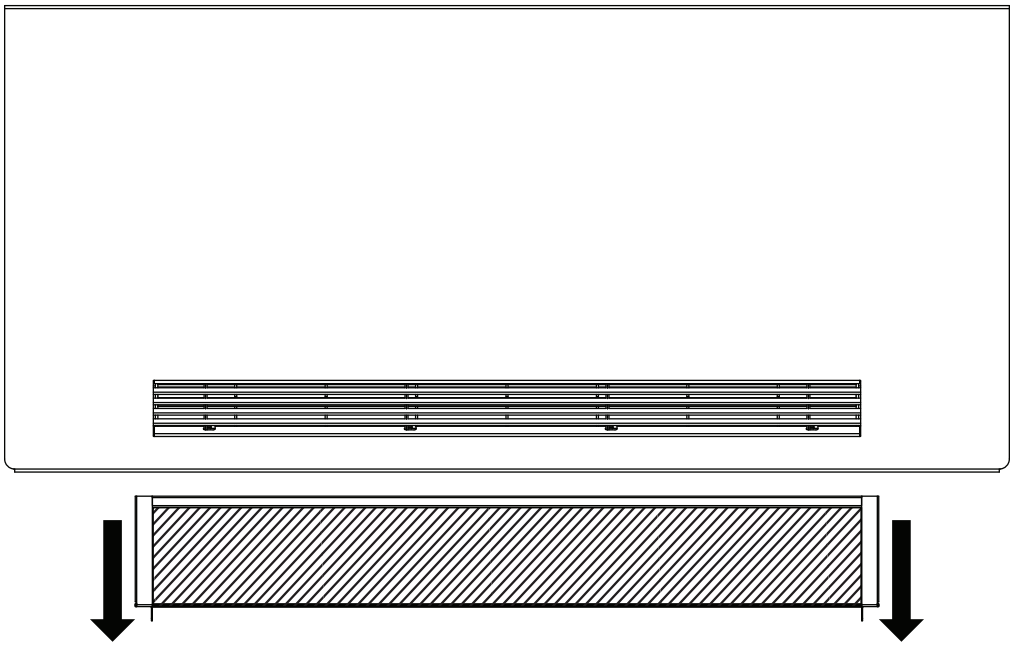
The air filter can be removed without disassembling the casing.
Follow these steps:

- Gently pull the two side tabs at the bottom of the filter. These are located at the underside of the product.



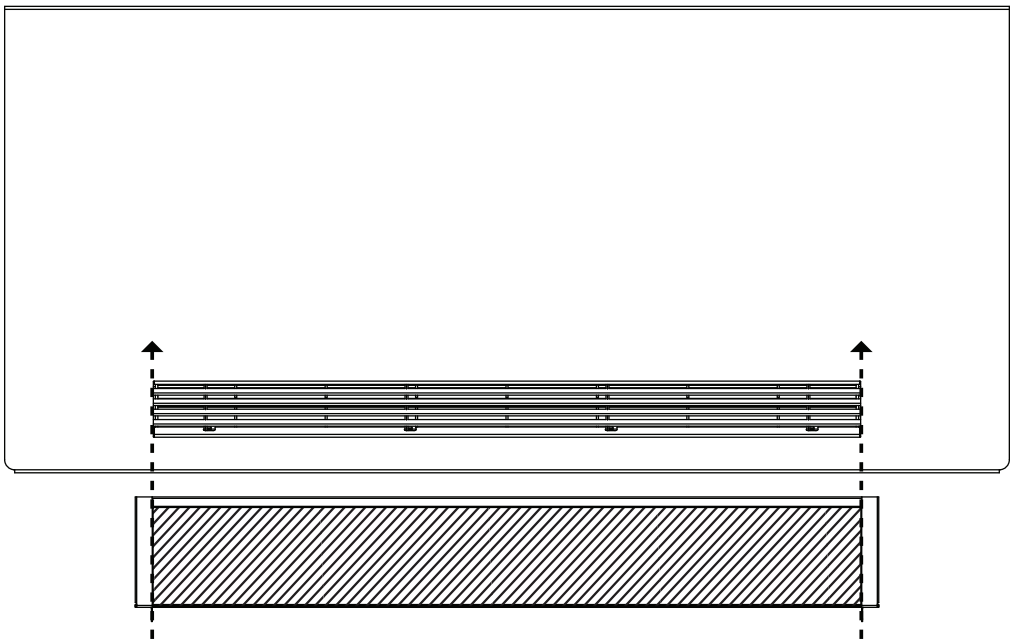
Note: A safety system ensures that the fan does not operate when the filter has been removed.

- Slide the filter downward until it is fully removed. Clean the filter with a damp cloth and/or compressed air.

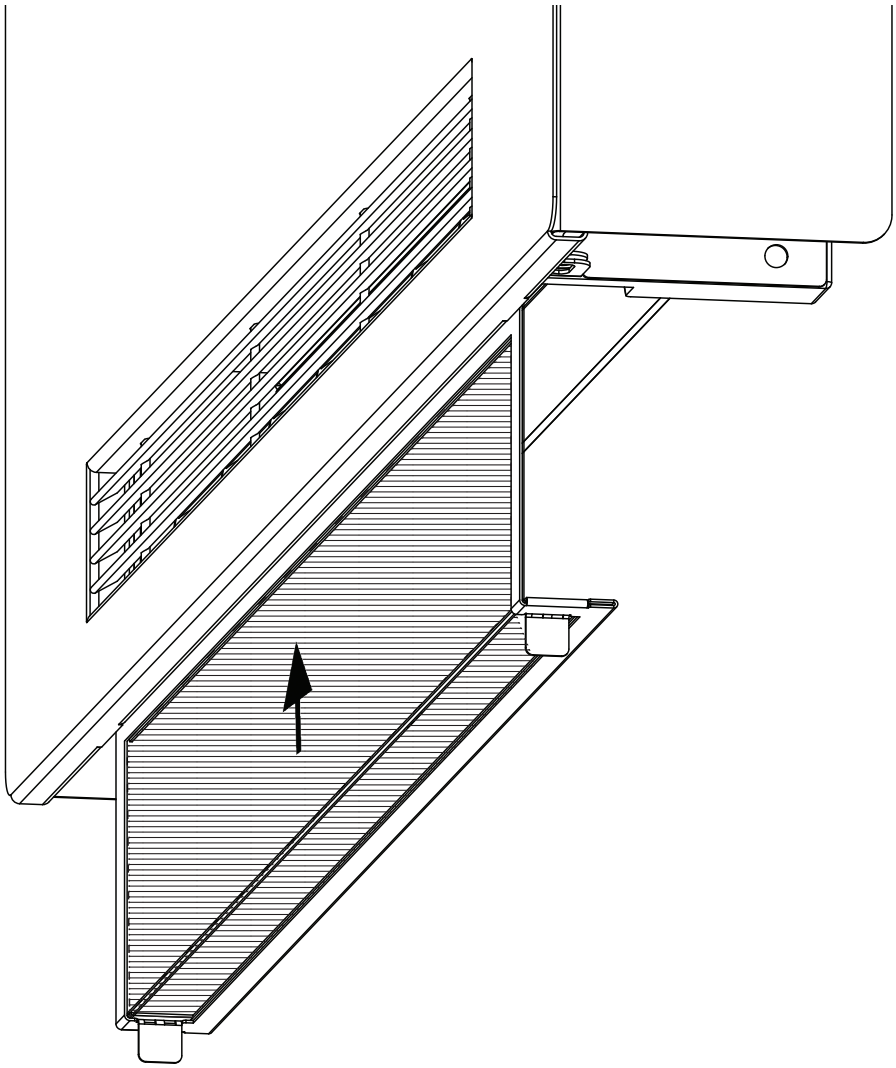


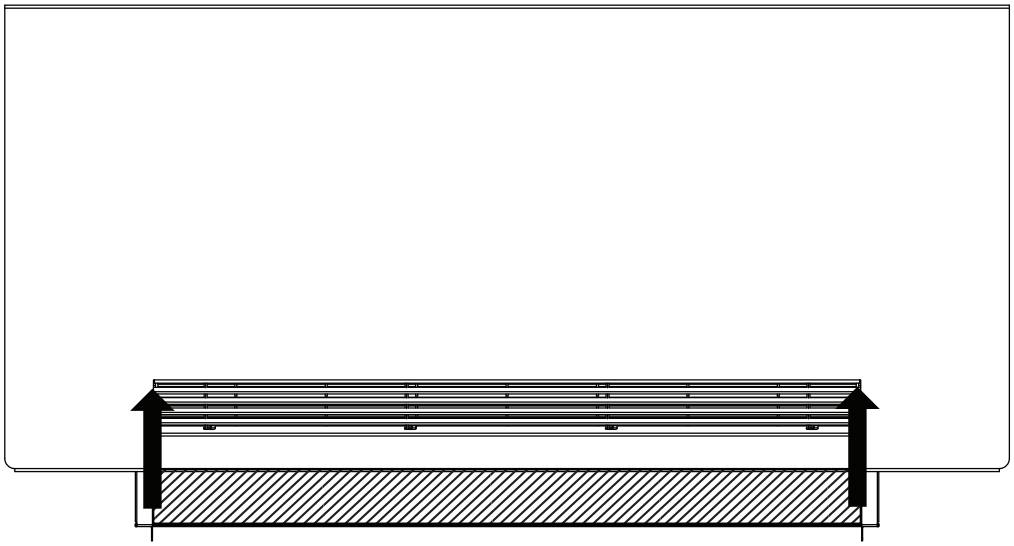
To reinstall the filter:

- Align the filter under the product with the front intake grille.



- Before pushing the filter upwards, make sure the top of the filter touches the inside lip on the bottom of the casing. Push up until the filter clicks into place and remains secured. The fan will not run if the filter has been placed incorrectly.





Troubleshooting

Observation	Possible cause	Solution
The fan does not run	The filter was not correctly inserted	Check that the filter is fully pushed in
	The actuator has not yet opened	Wait until the actuator's opening time is completed. This may take up to 5 minutes
	The desired temperature has been reached	Increase/decrease the set temperature
	The fan is defective	Check the wiring and, if faulty, contact support
	The fan has overheated	Wait until it cools down and resets for safety
The fan runs, but there is no heating or cooling	The unit is set to an incorrect mode	Change the mode on the display and wait for the start-up time
	Incorrect supply of hot or cold water	Check the settings of the central heating/heat pump
The unit makes a disturbing/unusual noise while the fan is running	Dirt in the fan / loose components	Check the filter/fan for dirt
The fan speed is too high/low in automatic mode	Maximum fan speed	Adjust the parameters to increase or decrease the maximum speed
Weak airflow from the fan	Clogged heat exchanger	Check and clean the fins of the heat exchanger using compressed air
The unit leaks during cooling	Condensation forming without drainage	Check the supply temperature and increase it above the dew point
	Condensate drain and hose not connected	Connect the condensate drain and hose to the unit
	Poor connection / no sealing	Check the pipes and fittings for leaks. Apply extra sealing compound where required
The display shows an E-code	Error message from the display	Check the error code in the table in this manual and carry out the listed steps
The unit stops working before the room has been sufficiently heated or cooled	Main thermostat setting	Check whether the main thermostat and the unit are properly aligned
The casing no longer fits flush against the wall	Anti-lift screws	Check that the anti-lift screws are in the correct position and properly tightened
	Wall mounting brackets	Check the 4 wall bracket screws. These must be firmly secured
	Casing suspension	Check that the casing is correctly hung on the wall brackets
	The wall is not level	–
I cannot open the grille above the display	No grip	Use the supplied clip to open the grille more easily
There is an odour coming from the radiator	Siphon	No siphon is present or it is not correctly connected
The filter is not in its proper position	Filter was not correctly inserted	Check that the filter is fully pushed in
	Black EPP foam was damaged	Contact your installer

Warranty

Type of device	Steel components	Electrical components	Other components	Heat exchanger
Fan coil convector	10 years	2 years	2 years	5 years

The warranty conditions form an integral part of our general terms and conditions of sale. The latest version of our general terms and conditions of sale can be found in our price lists and on our websites.

1. On the SRG-products sold by us the following warranty conditions apply:
(a) steel parts of the fan coil convector: 10-year-period warranty starting from the invoicing date against:
   (1) Leakage as a result of faulty manufacture. In case the leakage is caused by faulty installation and/or insufficient maintenance and/or faulty operation and/or unauthorised modifications and/or repairs, the warranty does not apply. The warranty shall also lapse in the event of defects caused by external influences.
   (2) Rust formation on lacquered device surface, except if the devices have been installed in a humid room and/or an aggressive ambient atmosphere. The warranty does not apply either to devices with a inlet temperature of higher than 65°C for fan coil convectors, nor if due to faulty installation and/or maintenance and/or operation and/or any other reason the radiator lacquer surface gets damaged
(b) accessories: 2-year-period warranty starting from the invoicing date:
   (1) Malfunctioning as a result of a faulty manufacture. Accessories are electrical and other components such as, air vents, sealing plugs, valve pieces, spacer tubes, mirrors, electric parts, grills, sidepanels, frontpanels etc.
   (2) The SRG-accessories warranty will become void completely if the product is connected to and combined with non-SRG-products.
(c) heat exchanger: for a period of 5 years from our invoice date for malfunctions and leaks resulting from manufacturing defects.

Malfunctioning, leaks or damage brought about during assembling both during and after the warranty period as a result of faulty installation and/or faulty operation and/or faulty maintenance will not be compensated.

2. And without prejudice to the above-mentioned provisions the following rules for installation and/or operation are to be strictly observed:
(a) Max. installation pressure 10 bar, installation water temperature of at least 5°C and at most 65°C for the fan coil convector;
(b) The device is professionally installated (NBN D 30-100, VDI 2035, BS 5449, DTU 65);
(c) Before putting the heating system (conduit-pipes, radiators, etc.) into operation it should be cleaned with a universal cleaning agent. Next, fill the system with fresh water to which an inhibitor is added in order to effectively avoid the appearance of problems like internal corrosion, kettle scale deposit etc.
(d) All plastic sealing plugs have to be removed from the device and replaced by metal (SRG) sealing plugs.
(e) During and after filling the heating system the functioning and water-tightness of all seals (valve, air vent, sealing plug etc.) of the device and the connections between the device and other parts of the heating system must be checked.
(f) All supplied suspension brackets and accessories (plugs, screws, saddle strips, etc.) have to

be used.
(g) The mounting wall has to be sufficiently stable.
(h) After filling the unit has to be completely air-vented by air-venting each single device individually. The unit has to be and stay free of oxygen. Oxygen/air penetration has to be impossible.
(i) Never clean the device with an agent containing solvents, acids or other corrosive substances.
(j) No ceramic humidifiers or other wet or water-permeable objects or elements should be in direct contact with the lacquered device surface.
(k) If devices prove to be damaged when delivered, the manufacturer should be notified immediately (within 8 days) using the provided procedure.
(l) The device shall be used only as radiant and convective heating units.
(m) The design of the device shall not be changed without prior written approval of the manufacturer.

3. In any case only the installer shall be responsible for any faulty installation or installation failures.

4. In addition we give some points of advice for installation and maintenance that will certainly be favourable to the lifetime of your device:
(a) Handle/transport the devices with special care. The device should not drag on the ground. Devices must be moved in upright position. During transportation the device corners shall not be loaded. Scratched lacquer and other damage can cause formation of rust on short or long term.
(b) Thorough maintenance of the unit shall be effected at least once per year. Check the functioning of the unit and check the elements and connections for leakage.
(c) After putting the devices into operation they should always be filled with water. This avoids contact between the device inside surface and air and formation of internal corrosion.
(d) Our devices shall not be stocked in open air (rain) or humid rooms. If penetrated moisture is visible, the packing has to be opened immediately for the device to dry.
(e) In order to avoid frost damages the devices must be kept running during the winter season.

5. In no way warranty coverage can be considered if the devices have been exposed to water jets, excessively high air-humidity or chemical or other aggressive substances unless according to our provisions the devices specifically comply with the environment-related requirements.

6. This warranty coverage includes only repair or replacement of the devices or the components that we recognise to be defect excluding all expenses related to labour, handling and transportation and excluding any compensation for damages. In no way the buyer will be entitled to any compensation for consequential damage.

If the established defects are due to damaging or unprofessional use or insufficient maintenance by the buyer or third parties, and if the devices have been repaired, transformed or altered by the buyer or third parties without our prior written approval, the present warranty is cancelled by law.

Caradon Stelrad BV
Welvaartstraat 14 bus 6 2200 Herentals, BE