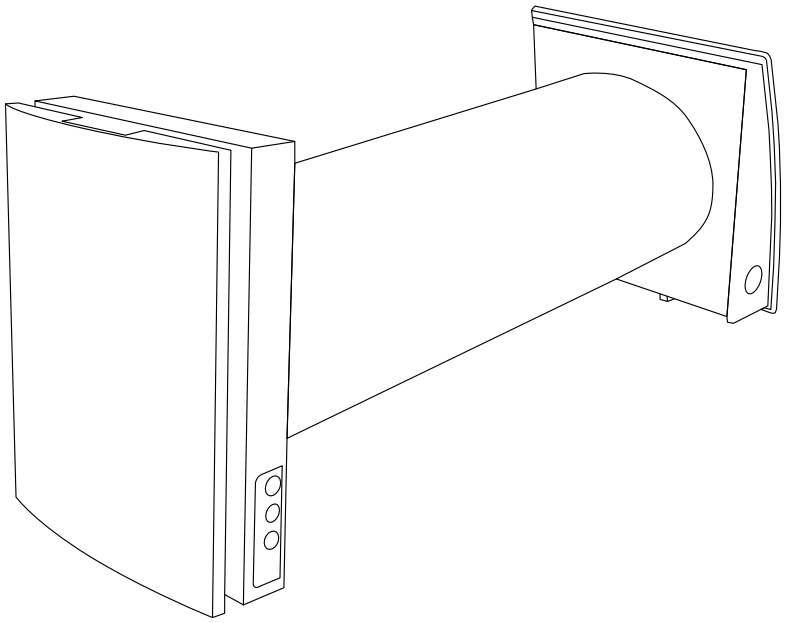


User manual

DUKA One S6B Plus

Ventilation unit with heat recovery for bathroom, toilet,

and utility room

Indhold

Information and Safety

Transport and Storage

The unit must be protected from shocks, impacts, and weather conditions during transport.
The unit must be stored in its original packaging in a dry and ventilated room with a temperature between 5°C and 40°C.
The storage area must not contain aggressive or chemical fumes or gases.
Do not expose the stored unit to pressure or any form of load.

Usage

Use the unit only for room ventilation. Do not connect a dryer or similar equipment to the unit.
The unit is designed to provide basic ventilation for residential spaces.
The unit should only be turned off in cases required by authorities or for safety reasons—such as in the event of a fire.
The unit cannot be used as a heat source.
The unit cannot be used as a dehumidifier.
Keep explosive and/or highly flammable dust, vapors, or liquids away from the unit.
The air supplied to the ventilation unit must not contain chemical fumes, coarse dust, soot, oil, adhesive substances, fibrous materials, pathogens, or other harmful substances.
Do not block the unit's ducts while it is in operation.
Ensure that the airflow from the unit is not directed toward open flames or similar sources.

Before Installation

Read and understand the user manual before installing and using the unit.
Inspect the product for any damage to the fan, core, front cover, electronic components, or outer casing. No foreign objects should be present, as this may damage the unit.
Keep the quick guide so that you can easily access the latest manual via the QR code.
If the unit changes ownership, pass on the quick guide to the new owner.

Installation

The unit is designed for installation in a facade wall.
Unpack the unit carefully.
During installation, all applicable building, electrical, and technical standards must be followed.
Follow all electrical safety regulations when installing the unit. For more information, visit the Danish Safety Technology Authority at www.sik.dk.
If any of the unit's wires are damaged, they must be replaced in accordance with applicable regulations. See more at www.sik.dk.
The unit must not be subjected to pressure. Deformation of the unit may result in motor blockage and excessive noise.

Operation

Disconnect power to the unit before installation, servicing, maintenance, and repair. Filter replacement is an exception—see the maintenance section.
Do not use the unit outside the specified temperature range.
Do not operate or service the unit, controls, or remote control with wet hands or bare feet, as this may cause an electric shock.
Do not allow children to operate the unit. Children should be supervised to prevent them from playing with the unit.
Improper use of the unit or unauthorized modifications are not permitted.
The unit should not be operated by persons with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, unless they are supervised or have received instructions from a responsible person regarding the safe use of the unit.

Cleaning

Do not wash the unit with water.
Protect the electrical components from water exposure.

Warranty and Claims

DUKA Ventilation provides a 24-month warranty from the date of purchase in accordance with the Sales of Goods Act. Additionally, DUKA Ventilation offers an extra 12-month warranty, provided that all specified requirements regarding transport, storage, usage, installation, operation, maintenance, and warranty conditions are met.

To maintain the warranty, it must be documented that the filters have been replaced at least once per year using original DUKA Ventilation filters. Keep receipts for these purchases.
Note: Depending on the environment, more frequent filter replacement may be necessary.

The unit is designed to provide basic ventilation in residential spaces.
It should only be turned off when required by authorities or for safety reasons, such as in the event of a fire.

If the unit is installed in an area with a risk of mold, it must be thoroughly cleaned to remove dust and mold spores. A special cleaning agent may be necessary. Failure to do so will void the warranty.

The Warranty Does Not Cover:
Regular maintenance.
Installation, configuration, or removal of the unit.

The Warranty Is Void If:
Guidelines for transport, storage, usage, installation, operation, maintenance, and warranty conditions are not followed.
The unit is used or placed in an unsuitable environment.
The unit has been turned off without an official requirement to block outside air.
Damage occurs due to mold growth.
The unit has visible damage.
The unit is connected to an incompatible electrical network.
Damage results from fluctuations in electrical voltage.
Non-original filters have been used in the unit.
Technical components have been added or removed.
Unauthorized repairs have been performed.
Damage is caused by force majeure (lightning strikes, fire, flooding, earthquakes, etc.).
A purchase receipt cannot be presented.
The warranty period has expired.

For warranty claims, please complete our online claims form at:
www.dukaventilation.dk/reklamation
DUKA Ventilation is not liable for warranty obligations carried out without prior agreement with DUKA Ventilation.

For further details, refer to Vink Plast's General Terms and Conditions of Sale and Delivery. The latest version is always available on our website:
www.dukaventilation.dk

Contents of the Box

- Front cover and electronic component (assembled unit
- Storm shield and drip plate
- Sound damper
- Ceramic heat exchanger
- Motor
- 500 mm duct
- Mounting kit
- Installation template
- Remote control
- Quick Guide

Technical Specifications

The unit is designed for indoor use in temperatures ranging from 1°C to 40°C and a relative humidity of up to 80%.
The supply and exhaust air temperatures must be between -15°C and 40°C.
The unit must operate continuously.

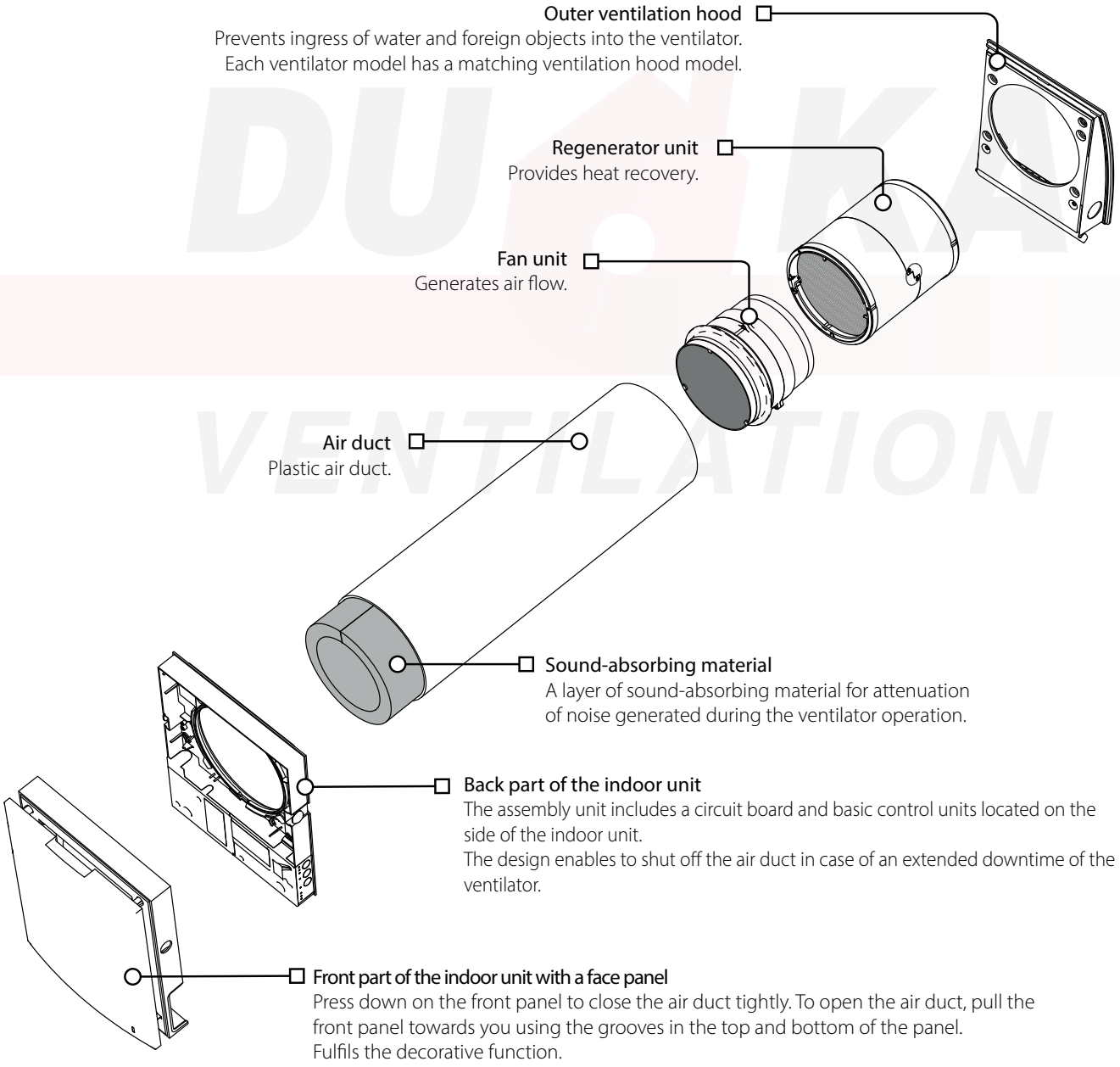
Electrical Classification
Appliance class: Class II
IP rating: IP24

The unit is under continuous development, and therefore, minor variations in technical data and the user manual may occur.
The latest documentation is always available via the QR code in the Quick Guide or at: www.dukaventilation.dk

Unit Composition

The DUKA One unit consists of an indoor section housing the unit's electronic components and front panel. The motor, ceramic heat exchanger, sound damper, and filters are located inside the wall duct. On the exterior side, the storm shield is installed.
Heat recovery occurs in the ceramic heat exchanger, which is protected from dust and dirt by the filters.
The indoor section and motor ensure the necessary air supply and exhaust. The motor is positioned inside, behind the heat exchanger, followed by the sound damper, which reduces motor noise and external noise.

On the exterior side, the storm shield protects the unit from wind and rain.



Teknisk data

	DUKA One S6B Plus		
Speed	1	2	3
Supply Voltage [V/Hz]	100-240V ~50/60 Hz		
Power Consumption [W]	1,20	2,10	6,10
Current [A]	0,019	0,024	0,057
Airflow in Ventilation Mode [m³/h]	15	30	60
Airflow in Heat Recovery Mode [m³/h]	7,5	15	30
Transported Air Temperature [°C]	-15 ... +40		
Filter	G3		
Sound Pressure Level at 1m [dBA]*	30	34	43
Sound Pressure Level at 3m [dBA]*	29	32	40
Sound Insulation from External Noise [dBA]	42		
Varmegenvindingsgrad [%]	94	84	78

* Measurements conducted by DUKA Ventilation

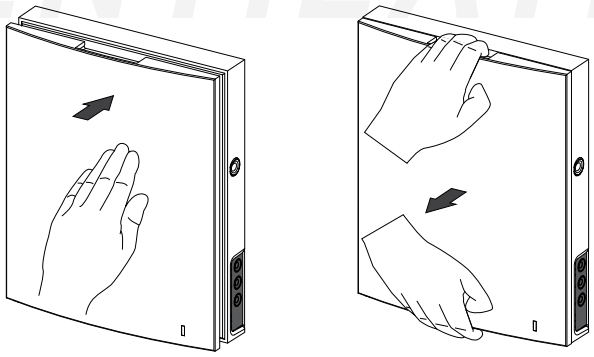
Lukning af lufttilførsel

Press lightly against the front panel to block the airflow. The unit will stop automatically.

To restart, gently pull the top and bottom of the front panel. The unit will resume operation in the same mode as when it was stopped.

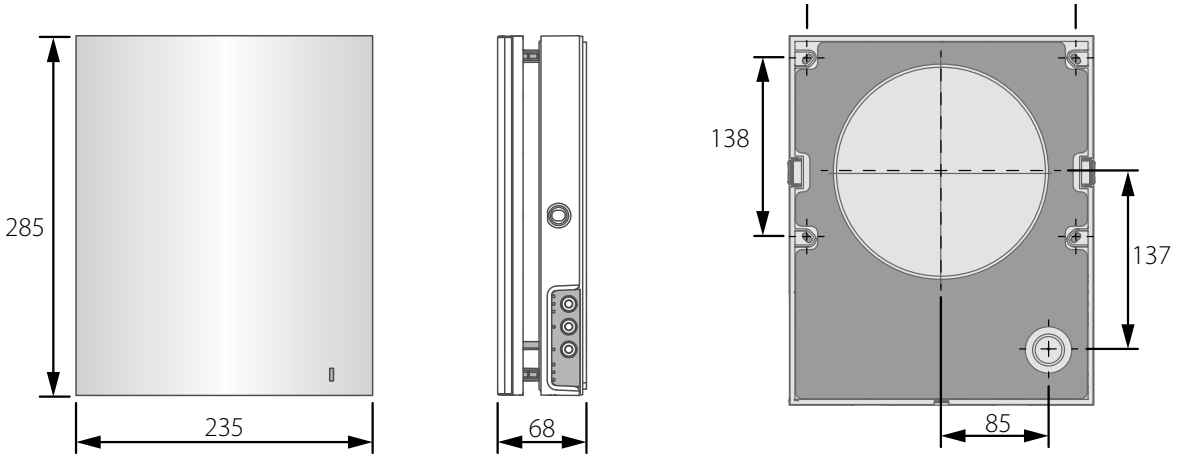
The LED light on the front remains illuminated during operation. In the dark, the light will dim.

Note: The unit should only be turned off if required by authorities or for safety reasons, such as in the event of a fire.

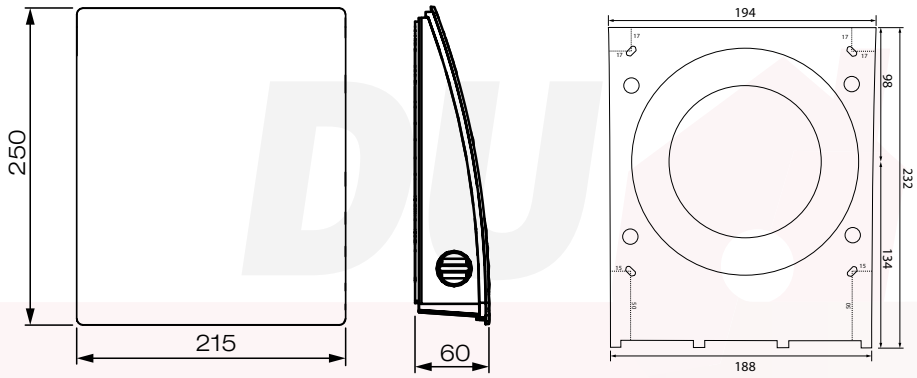


Dimensions

DIMENSIONS OF THE FRONT PANEL (MM)



DIMENSIONS OF THE EXTERIOR SHIELD (MM)

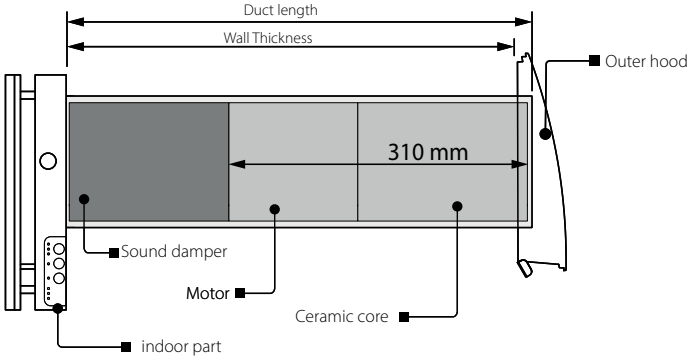


Minimum Wall Thickness for Installing DUKA One S6B Plus

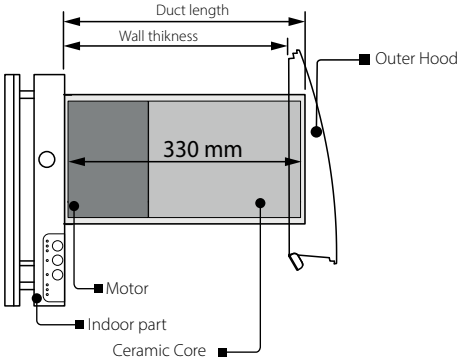
If the wall thickness is below the minimum requirement, it is recommended to purchase the DUKA One Spacer.

	DUKA One S6B Plus
Hole Diameter (for installation)	170-180 mm
Length of Ceramic Core	330 mm
Minimum Wall Thickness	330 mm

Optimal installation



Minimum Wall Thickness installation



Installation

1 - Determine Placement and Drill the Hole

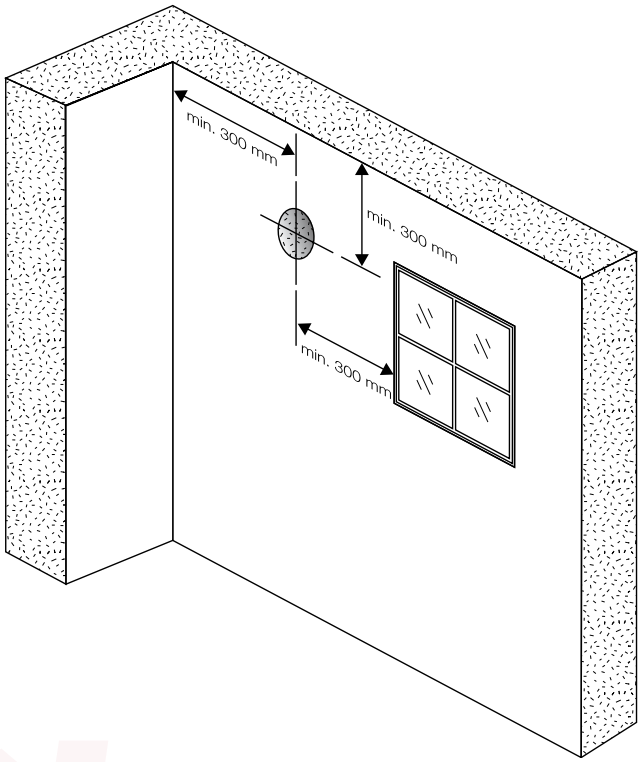
Ensure minimum clearance distances from side walls, ceiling, and windows as shown in the installation diagram.

Consider the power supply when selecting the installation location.

Plan for electrical connection before installation.

Do not install the unit in or above wet zones 0, 1, or 2.

For basement installations, position the DUKA One unit at least 0.3 - 0.5 meters from the bottom edge of the storm shield to the ground level.

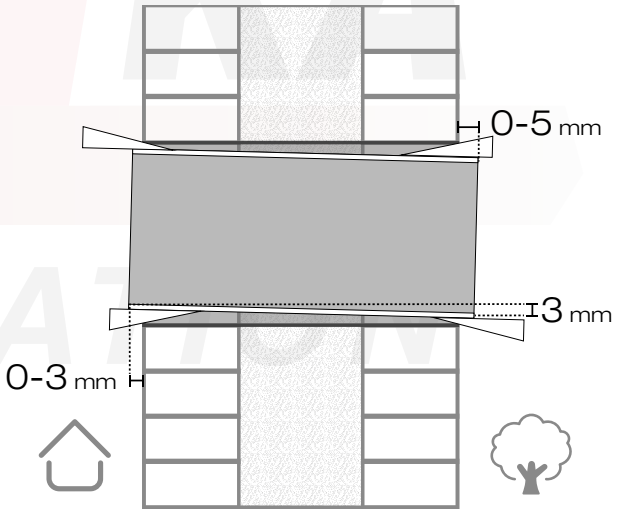


2 - Insert the Duct and Adjust Length to Wall Thickness

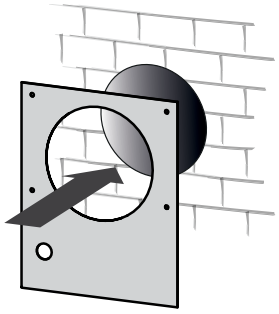
The duct must be installed with a 3 mm slope to ensure that any condensation drains away from the electrical components and towards the storm shield.

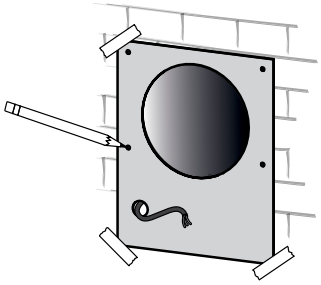
For easier installation, use the included polystyrene wedges.

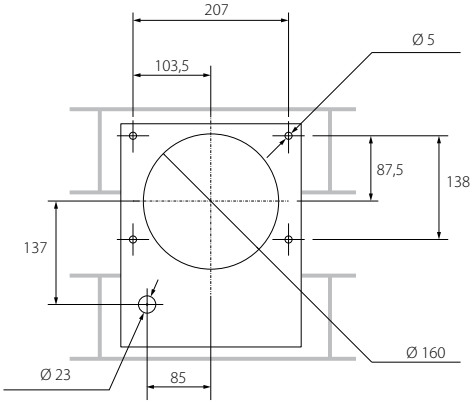
The duct must extend no more than 3 mm on the indoor side and 5 mm on the outdoor side.



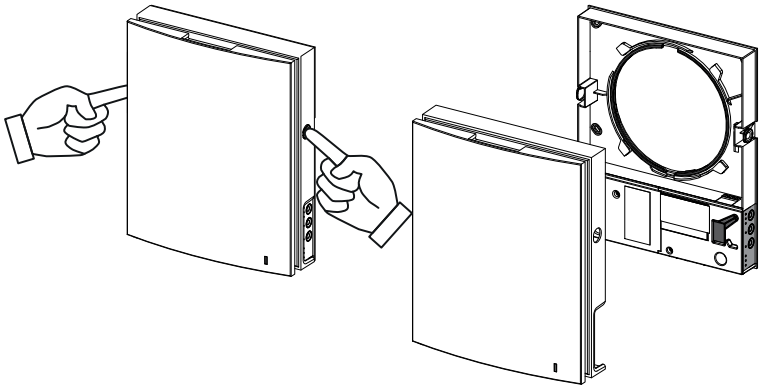
3 - Use the provided installation template to accurately mark the positions for the necessary drill holes for mounting and hidden cable entry.

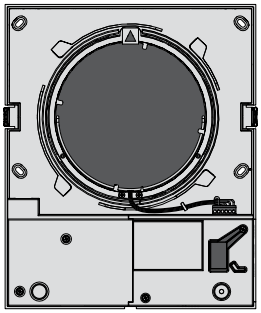






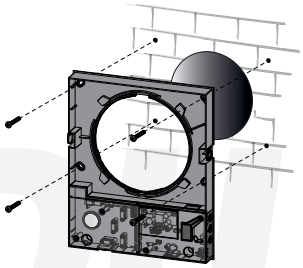
4 - Remove the Front Cover
Press the two buttons on the sides to detach the front cover.

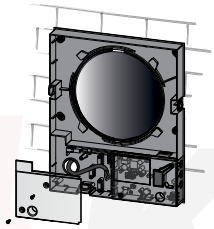




5 - Mount the Electronic Component
Secure the electronic unit using the provided screws.

Remove the left cover plate.

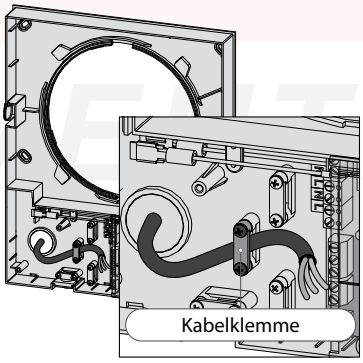


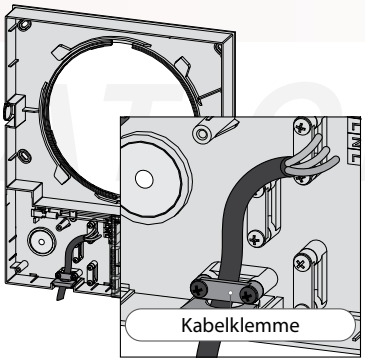


6 - Connect the Cables
Follow the wiring diagram to correctly connect the cables.

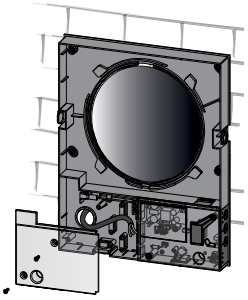
Route the cables as shown in the instructions.

Secure the cables using the cable clamps to prevent strain.





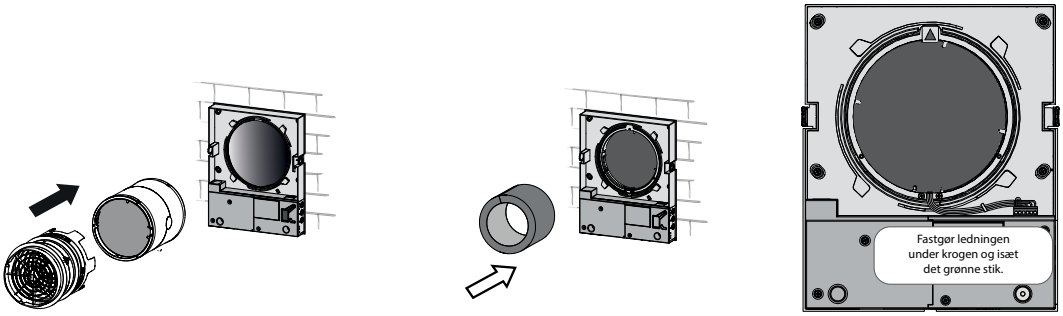
7 - Reattach the Left Cover Plate
After connecting the power supply, reinstall the left cover plate.

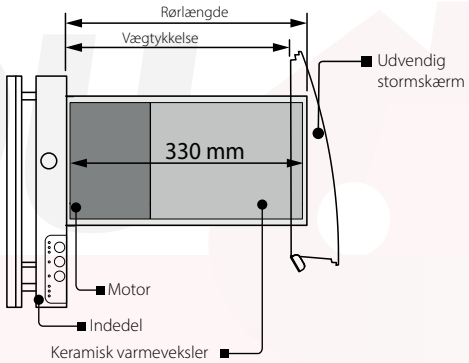


7 - Insert the Core into the Wall Duct

Place the ceramic heat exchanger as far inside the duct as possible.
Position the motor 6 cm away from the ceramic exchanger.
To ease future maintenance, mark inside the duct where the motor and exchanger should be placed.
Connect the motor to the PCB using the green terminal connector.

Roll up the sound damper and insert it into the duct after the motor, adjusting its length to fit the duct.
If the wall thickness is close to the minimum requirement, the core and motor can be placed closer together, omitting the sound damper.

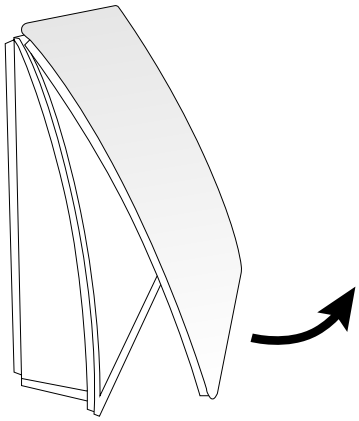




Note: Reducing the distance between the motor and exchanger may affect performance and noise levels.

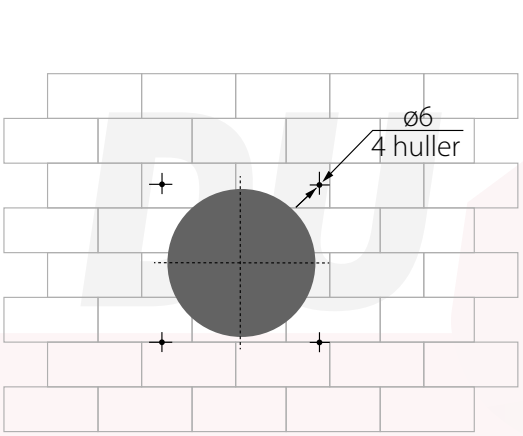
8 - Install the Front Cover

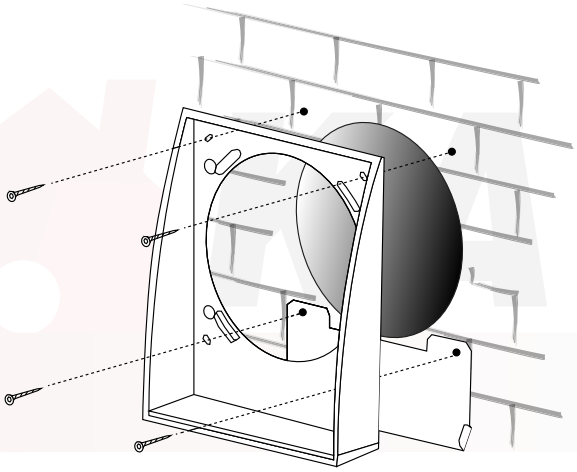
9 - Remove the Cover from the Storm Shield Before Installation
Detach the storm shield cover before proceeding with the installation.



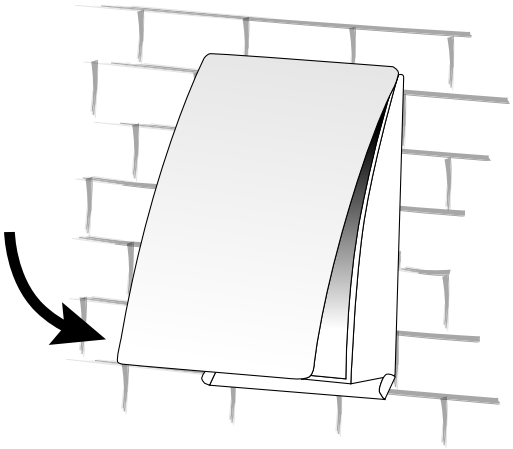
10 - Install the Storm Shield and Drip Plate

Attach the drip plate to the back of the storm shield, as shown in the illustration.
The drip plate ensures that condensation water is directed away from the wall to prevent damage





11 - Attach the Storm Shield Cover
Secure the storm shield cover to complete the installation.



Electrical Connection

IMPORTANT: ALL ELECTRICAL CONNECTIONS MUST BE PERFORMED BY A CERTIFIED ELECTRICIAN.
Any modifications or illegal installations will void the product warranty.
It is illegal for private individuals to perform fixed installations.
For more details, refer to the Danish Safety Authority at www.sik.dk.

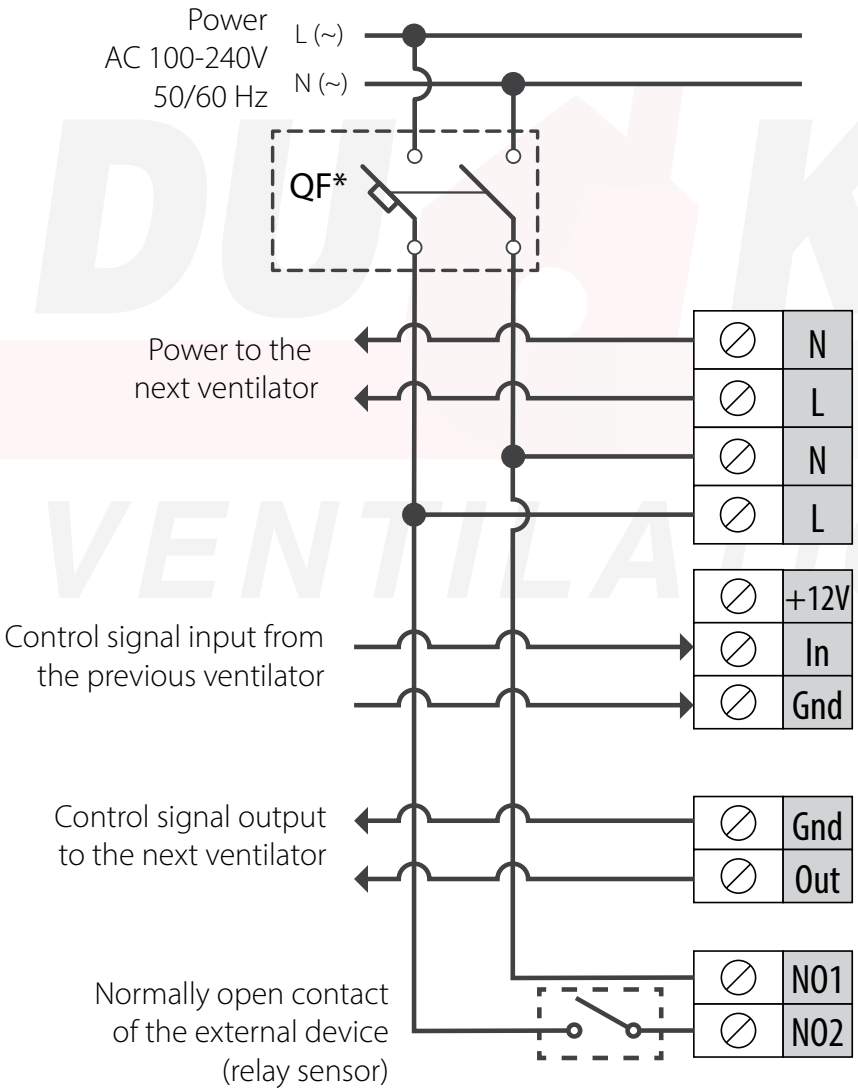
The unit operates on single-phase AC 100-240V / 50(60) Hz.

Connect the unit to the electrical grid via the terminal blocks N (Neutral) and L (Live).

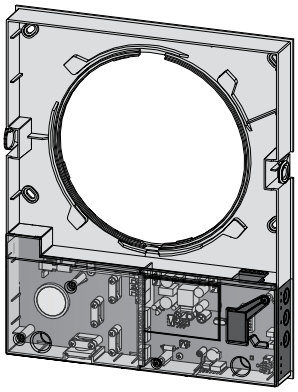
Connect a light switch to the unit via terminal blocks NO1 and NO2.

Placement Restriction: The unit must not be installed in or above wet zones 0, 1, or 2.

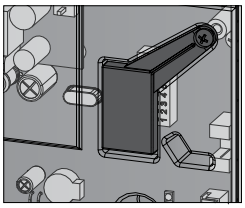
Electrical Diagram

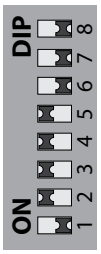


Settings



Åbn gummidækslet





DIP-switches placeret under gummidækslet

Before starting the DUKA One unit, the operating settings must be adjusted to fit your needs.
This is done using the DIP switches, located under the DIP switch cover.

Control Panel Settings

DUKA ONE S6B PLUS	
1	Unit can be disabled
1	Unit cannot be disabled
Ventilation Direction Settings	
2	**Intake Mode** The unit operates in intake mode. In heat recovery mode, the unit starts in intake mode.
2	**Exhaust Mode (Recommended Setting)** The unit operates in exhaust mode. In heat recovery mode, the unit starts in exhaust mode.

Humidity Control Setup
The humidity sensor measures the moisture level in the air: If the extracted air exceeds the set humidity threshold, the unit switches to the highest exhaust speed. Once the humidity drops below the set threshold, the unit returns to the previous operating mode. If run-on time is selected, the unit continues at high exhaust speed for the chosen duration.

70 %	80 %	90 %
5 4 3	5 4 3	5 4 3

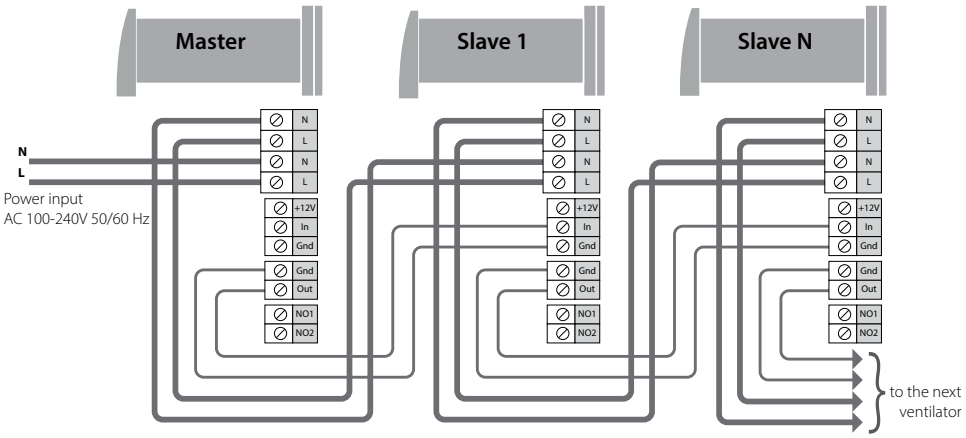
Run-On Time Setup
The run-on timer is used when the light switch is activated or in combination with the humidity sensor.
When the light switch or sensor deactivates, the run-on timer starts, keeping the unit running for the selected time.
Once the timer expires, the unit returns to the previous operating mode.

Run-on: 0 min.	Run-on: 5 min.	Run-on: 15 min.	Run-on: 30 min.
7 6	7 6	7 6	7 6

Resetting the Filter Alarm
DIP switch 8 is used to reset the filter alarm.
Move DIP switch 8 left for at least 3 seconds, then move it back right.

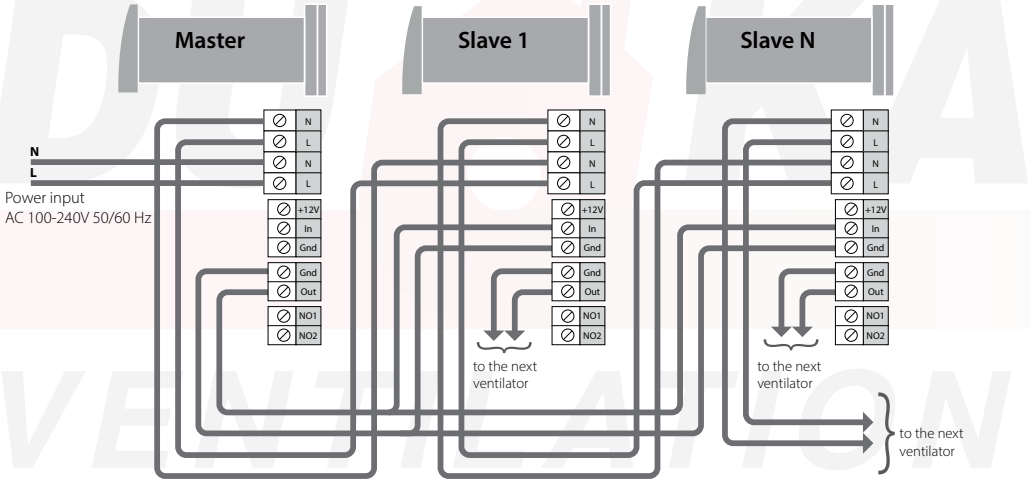
Standard position	Reset filter alarm
8	8

Wiring Diagram for Series Connection



Use only when multiple S6B Plus units are installed in the same room.

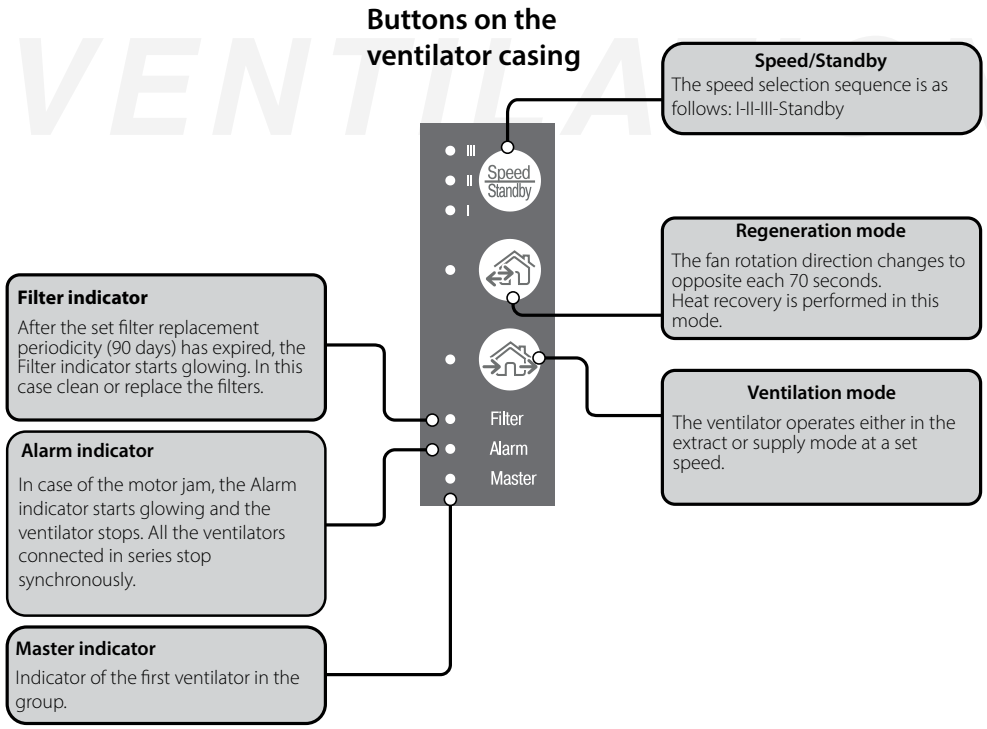
Wiring Diagram for Parallel Connection



Use only when multiple S6B Plus units are installed in the same room.

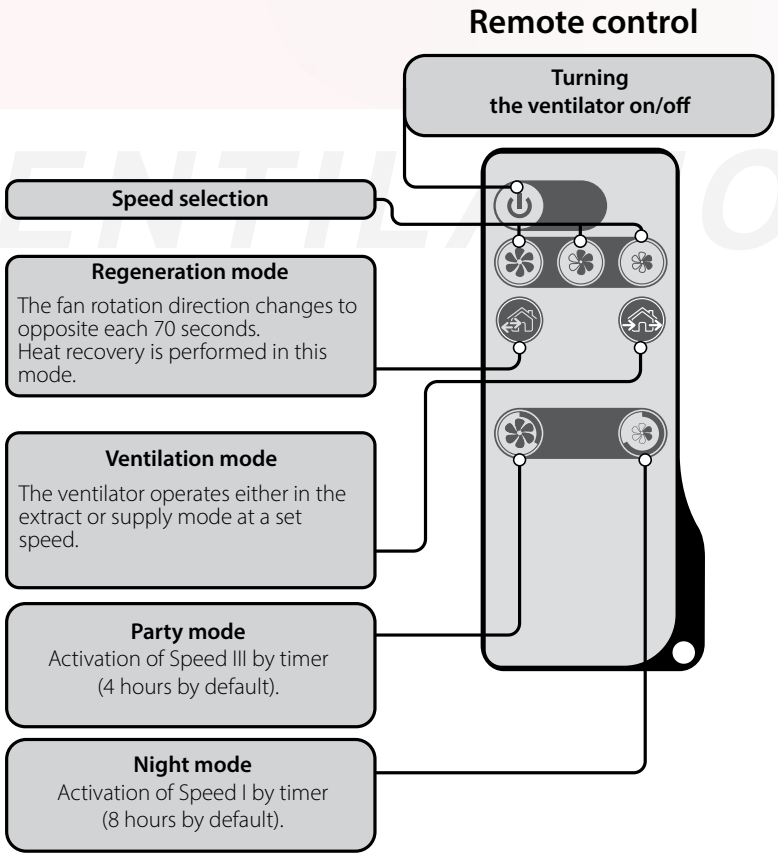
Betjening af enheden via knapper på indedelen

FUNCTION	
	**Set Speed Level I – II – III – OFF** I: If the indicator is lit, the unit is running at speed level I. I og II: If indicators I and II are lit, the unit is running at speed level II. I og II (flashing): If indicators I and II are blinking, the unit is in forced operation with exhaust at speed level II. I, II og III: If indicators I, II, and III are lit, the unit is running at speed level III. I, II og III (flashing): If indicators I, II, and III are blinking, the unit is either in forced operation after the humidity sensor has been activated at speed level III, or the party mode or overrun timer is activated.
Heat Recovery Function 	The unit operates for 70 seconds in intake mode, then switches to 70 seconds in exhaust mode.
Ventilation Function 	The unit operates in ventilation mode, either in intake or exhaust mode. The direction depends on the DIP switch settings—see the Settings section for more details. DUKA Ventilation recommends selecting exhaust mode.
Filter Alarm	The unit operates in ventilation mode, either in intake or exhaust mode. The direction depends on the DIP switch settings—see the Settings section for more details. DUKA Ventilation recommends selecting exhaust mode.
Alarm Indicator	The indicator lights up or blinks when a fault occurs in the unit. If the units are interconnected, all units will stop running. The faulty unit's alarm indicator will blink, while the other units' indicators will remain lit. If the master unit loses connection to the network for more than 20 seconds, the alarm indicator will blink, and the unit will enter standby mode. The slave units will indicate a lost connection to the master unit and will automatically restart once the master unit reconnects.
Master indicator	Only the master unit's indicator will be lit when multiple units are connected. Slave units will not have an illuminated indicator. If a slave unit's indicator is blinking, it means there is no connection to the master unit.



Operating the Unit with the Remote Control

FUNCTION	
	**Power ON / Standby** Turns the unit on or places it in standby mode, unless this function is disabled via the DIP switch settings (see the Settings section for more details).
	**Speed** Cycles through speed levels: III – II – I
Heat Recovery Function 	The unit operates in heat recovery mode – 70 seconds in intake mode, followed by 70 seconds in exhaust mode.
Ventilation Function 	The unit operates in ventilation mode – either intake or exhaust. The direction depends on the DIP switch settings (see the Settings section for more details).
Timer-funktion 	 Party Mode: Activates speed level III for 4 hours.  Night Mode: Activates speed level I for 8 hours. After the timer ends, the unit will return to the previously selected operating mode. To deactivate the function, press any button on the remote.



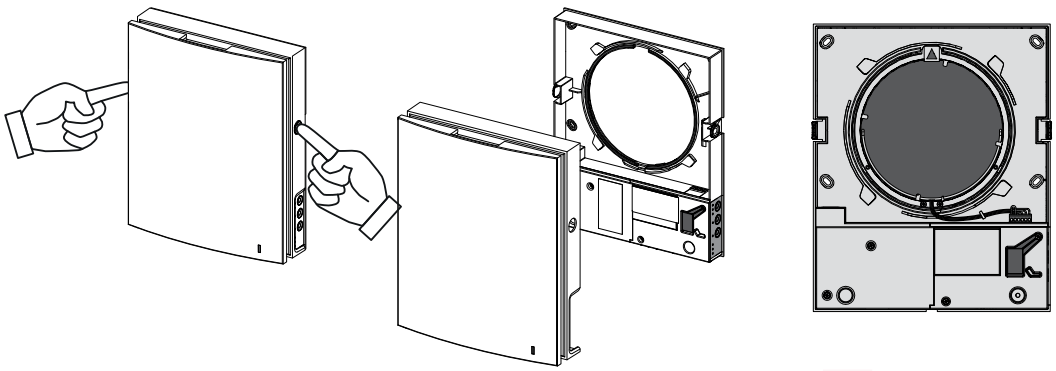
Maintenance

REMEMBER TO DISCONNECT POWER TO THE UNIT BEFORE PERFORMING ANY MAINTENANCE!

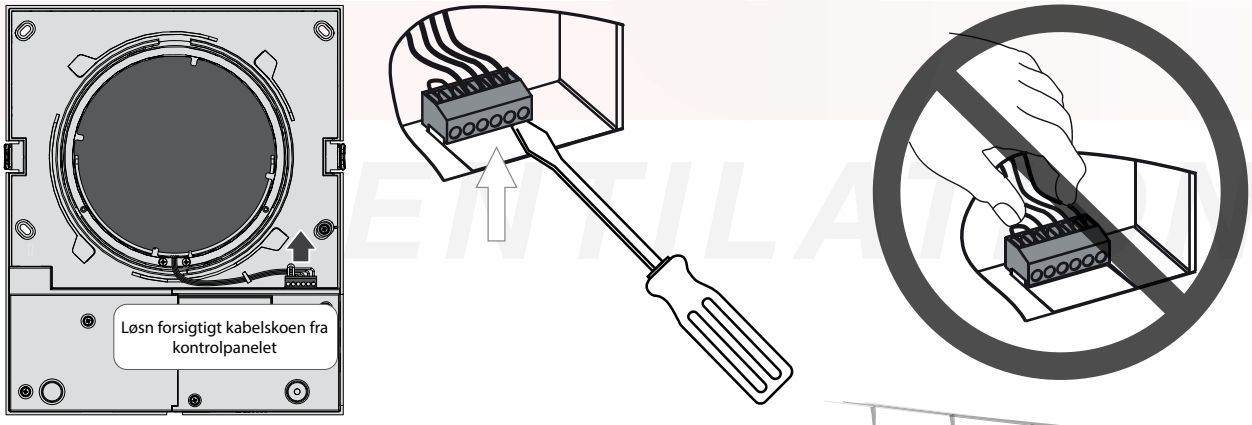
A DUKA One unit must be inspected and maintained at least every 3 months. In certain environments—such as dusty, dirty, or humid areas—more frequent maintenance may be required.

During maintenance, the ceramic core must be removed and cleaned. The sound absorber and filters must also be cleaned or replaced

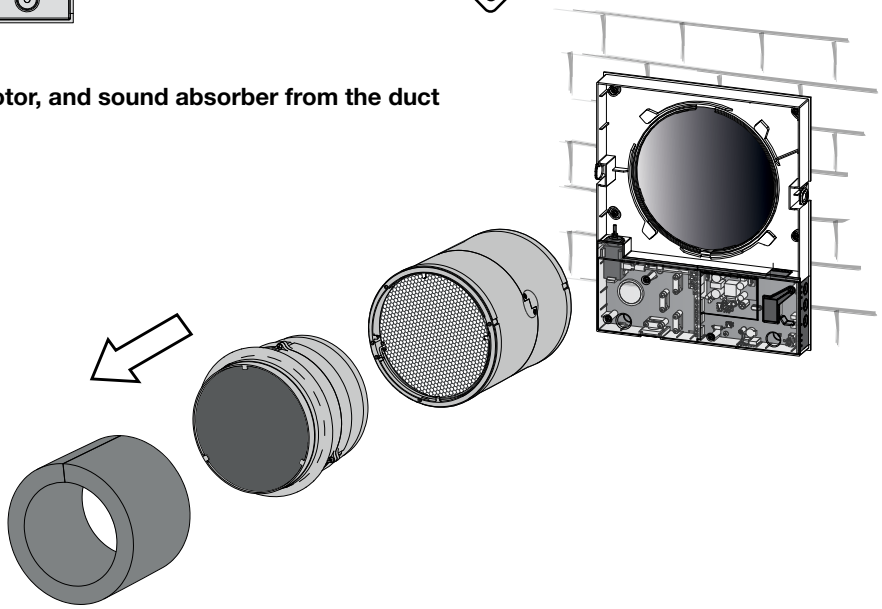
1 – Remove the front cover
Press the buttons on the sides of the front panel and take off the front.



2 – Disconnect the cable connector
Carefully disconnect the cable connector from the electronics module.
Use a flathead screwdriver to gently lift the connector from the terminal block.
Do not pull on the wires.



3 – Remove the core, motor, and sound absorber from the duct



4 – Clean Filters, Core, and Sound Absorber

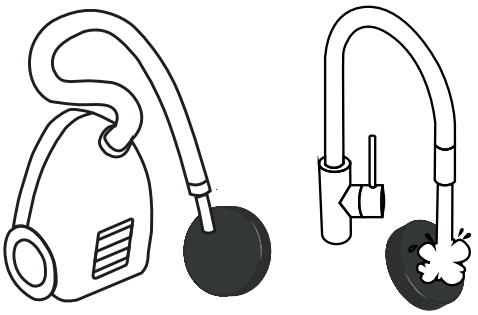
Filters

Filters must be inspected at least every 3 months and should be cleaned or replaced depending on their condition. At least once a year, the filters must be replaced with original filters from DUKA Ventilation.

In some environments (e.g., dusty, dirty, or humid areas), more frequent maintenance may be necessary.

If the unit is installed in an environment with a risk of mold, extra care must be taken to thoroughly remove all dust and potential mold spores. In such cases, it may be necessary to use a special cleaning agent. Failure to do so will void the product warranty.

Depending on how clogged or worn the filters are, they may be vacuumed or washed, but no more than 3 times.
Let the filters dry completely before reinstalling them in the unit.



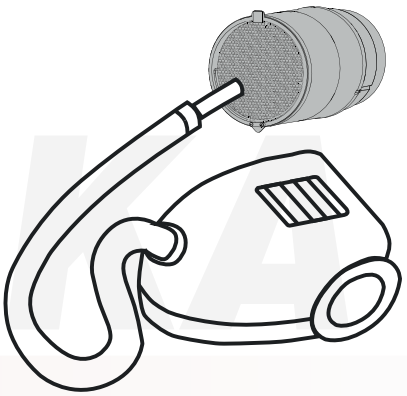
Filter Alarm

The unit must be connected to power and in standby mode for the filter timer to be reset.

To reset the filter alarm:
Move DIP switch 8 to the left for at least 3 seconds, then move it back to the right.

Ceramic Core

Organic particles from the surrounding environment may accumulate in the ceramic core or on the fan.
Clean these components using a vacuum cleaner or compressed air.



Motor

Check the motor for dust and dirt buildup.
Clean it with a soft cloth or brush.

Sound Absorber

The sound absorber can be cleaned by vacuuming or gently washing.
Let it dry completely before reinstalling it in the unit.

Duct

Clean the duct with a damp cloth and mild detergent.
You may use DUKA Clean.
Allow the duct to dry before reinstalling the core, motor, and sound absorber.

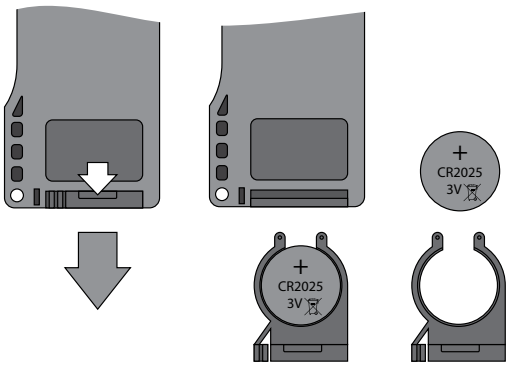
Item	Item nr.	DB nr.	VVS nr.
Filter Set Ø160 – 1 set (2 pcs)	345151	1828091	358889816
Filter Set Ø160 – 5 sets (2 pcs per set)	412816	2172165	358889856
Filter Set Ø160 – 25 sets (2 pcs per set)	412818	2172166	358889866
DUKA Clean	411858	2166265	358889905

Remote Control

After prolonged use, the remote control battery may need replacing.

Pull out the battery drawer from the remote control and insert a new battery.

Battery type: CR 2025



Troubleshooting

PROBLEM	MULIGE FEJL	FEJL AFHJÆLPNING
Unit does not start	Power is not connected	• Check that the unit is connected to power and the switch is turned on. Alternatively, ensure the wiring is correctly installed.
	The motor is blocked or the fan encounters resistance	• Turn off the unit • Check if the motor is blocked • Clean the fan blades • Turn the unit back on
Unit runs at full power and does not respond to external signals	The humidity control in the DUKA One unit is enabled and active	Adjust the humidity sensor threshold on the dip-switches. See more under settings.
Automatic circuit breaker cuts out	Short circuit in the electrical network	• Turn off the unit • Contact mail@dukaventilation.dk
Low temperature in supply air	Filters are clogged	Clean or replace the filters
	The ceramic core is iced up	• Check the ceramic core for ice formation • Turn off the unit, remove the core, and allow the ice to melt
Low airflow	The unit is set to the lowest speed	Select a higher speed setting
	Filters, fan, or ceramic core are clogged	• Clean or replace the filters • Clean the fan and ceramic core
High noise level or vibrations	The fan is dirty	Clean the fan
	Loose screws	Tighten the screws
Filter alarm button remains lit after cleaning/replacing filter	Filter alarm reset was not done according to the instructions	See section: Maintenance

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