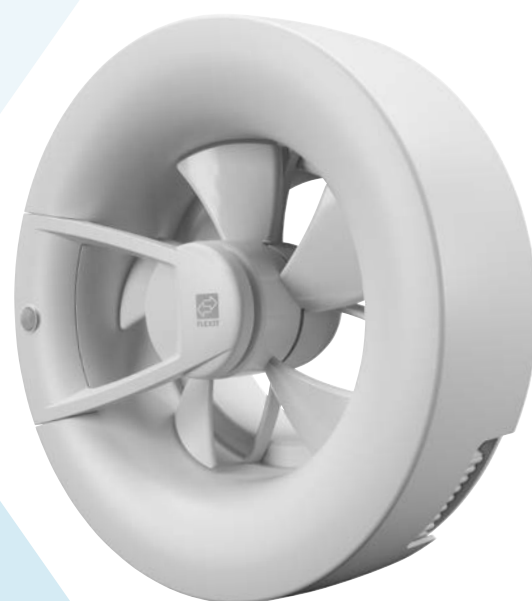


Bodo



User and installation manual

Bathroom fan

ART.NO.: 120943, 120944,
120945, 120946

Symbols used



DANGER! When a text box is this colour, it means that a life-threatening or serious personal injury may be the consequence of not following the instructions.



NOTICE! When a text box is this colour, it means that a poor utilisation ratio or product operating issues may be the consequence of not following the instructions.



CAUTION! When a text box is this colour, it means that material damage may be the consequence of not following the instructions.



INFO! When a text box is this colour, it means that it contains important information.

Important!

This user's manual is a main operating document intended for technical, maintenance, and operating staff. The manual contains information about purpose, technical details, operating principle, design, and installation of the Bodo unit and all its modifications.

Technical and maintenance staff must have theoretical and practical training in the field of ventilation systems and should be able to work in accordance with workplace safety rules as well as construction norms and standards applicable in the territory of the country.

Read the user's manual carefully before proceeding with installation works. Compliance with the manual requirements ensures reliable operation and long service life of the unit. Keep the user's manual available as long as you use the unit. You may need to reread the information on the product servicing.



SAFETY INSTRUCTION



- If the device is to be used by persons (including children) who lack experience and knowledge, or who have reduced physical, sensory, or mental capabilities, use must be supervised or guided by a person responsible for safety.
- Supervise children to ensure that they do not play with the device.
- The device can be used by children aged eight years and older, as well as by persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge. However, this requires that these persons have been instructed on how to use the device safely and understand the risks associated with it.
- Cleaning and maintenance must not be carried out by children without adult supervision.
- Children must not play with the device
- Precautions must be taken to prevent backflow of gases into the room from open flue gases or other combustion appliances (applies to duct and partition fans).
- Do not use the device in a hazardous or explosive environment containing alcohol, gasoline, insecticides, or similar substances.
- The product may affect safety if there is adjacent equipment that burns gas or other fuel (even in other rooms), as the flow of combustion gases may be affected. Such gases can potentially cause carbon monoxide poisoning. Once the product is installed, the gas flow from other equipment must be tested by a qualified person to ensure that combustion gases do not flow back.
- The device must be connected to the electrical network by a qualified electrician authorized to work with electrical equipment up to 1000 V and who has carefully read this user manual.

- Disconnect the device from the power supply before connection, servicing, maintenance, or repair.
- Ensure that the device is disconnected from the electrical network before removing the cover.
- Connection to the electrical network must be made via a disconnecting device integrated into the fixed installation, in accordance with the rules for wiring electrical equipment.
- The device must have contact separation on all poles to allow full disconnection under overvoltage category III conditions
- Never touch the device with wet or damp hands.
- Never touch the device while barefoot.
- All work described in this manual must only be carried out by qualified personnel who have sufficient training and are authorized to install and maintain ventilation units.



- All requirements in the user manual and all provisions of applicable local and national building, electrical, and technical regulations and standards must be followed during the installation and operation of the device.
- Check the device for visible damage to the fan wheel, fan housing, and grille before starting installation. The interior of the fan housing must be free of foreign objects that could damage the fan blades.
- Ensure that the fan housing is not pinched or deformed during installation. Deformation of the fan housing can cause unnecessary noise or cause the motor to seize.
- Incorrect use of the device and unauthorized modifications are not permitted.
- Do not expose the device to adverse environmental conditions (rain, sunlight, etc.).



- The conveyed air must not contain dust or other solid contaminants, sticky substances, or fibers.
- Avoid closing or blocking the intake or outlet vents to ensure efficient airflow.
- Do not sit on the device or place objects on top of it.



- The information in this user manual was accurate at the time of publication.
- The company reserves the right to change the technical specifications, design, or configuration of its products at any time to update them with new technology.
- Read the user manual carefully before starting installation work. Follow the instructions to ensure safe operation and a long service life of the device.
- Keep the user manual available while using the device in case you need to refer to the service information again.
- BEFORE INSTALLING ADDITIONAL EXTERNAL DEVICES, YOU MUST READ THE CURRENT USER MANUALS.
- The device must be disposed of separately at the end of its service life.
- Do not dispose of the device as unsorted household waste.

Delivery set

Fan	1 pc.
Screws with dowels	3 pcs.
Strain relief with screws	1 pc.
Plastic screwdriver (for Prime models only)	1 pc.
Quick guide	1 pc.
Packing box	1 pc.
Mounting template (integrated in inlay)	1 pc.
Template for cut-out (integrated in inlay)	1 pc.
Ø 100 mm spigot	1 pc.
Ø 125 mm spigot	1 pc.

Brief description

The product is an axial fan for exhaust ventilation of small and medium-sized premises.

Operation guidelines

The fan is rated for connection to single-phase AC 100–240 V, 50/60 Hz or DC 12 V power mains.

Power supply parameters are stated on the unit packaging and/or the label on the unit casing.

Ingress protection rating against access to hazardous parts and water ingress is IP44.

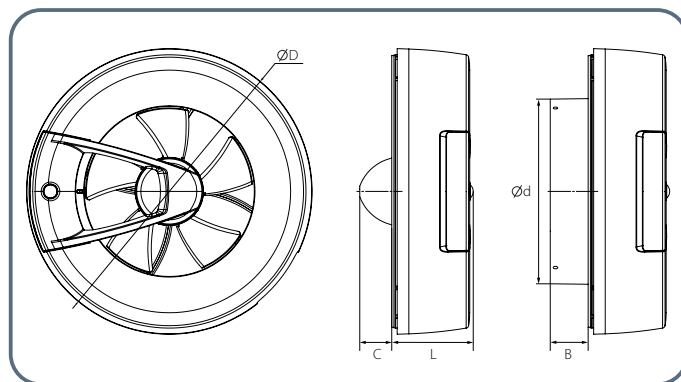
WARNING! IP-klassen gjelder en montert enhet.

The fan is rated for operation at ambient temperatures ranging from +1 °C to +40 °C.

WARNING! Do not operate the fan outside the specified temperature range.

The unit is rated as a Class II (100–240 V, 50 Hz) or Class III (12 V) electrical appliance and requires no grounding.

Overall dimensions



	Dimensions [mm]				
	Ø d	Ø D	C	L	B
Bodo	100	193	22	55	26
	125				

Fan modifications

Model	Functions					
	Humidity sensor	Motion sensor	Light sensor	Air quality sensor	Temperature sensor	WiFi
Bodo Prime	+	+	+	-	+	-
Bodo Supreme	+	+	+	+	+	+

Control of Bodo Prime

Bodo Prime is controlled using a multi-position switch.

Main operating modes

- By default, the fan either runs continuously at low speed or does not rotate, depending on the operating mode selected.
- If one or more sensors are triggered, the fan switches to the speed set for the selected fan mode and runs until the sensor signal disappears. After the sensor signal has disappeared, the fan continues to run at high speed for another 15 minutes and then returns to the default speed. If the motion or light sensor is triggered, the fan switches to high speed after a delay of 30 seconds to prevent the fan from switching on when the room is briefly visited.

Preset sensor triggering parameters

- The humidity sensor works in automatic mode. It accumulates statistical information on the natural humidity level in the room, and only reacts to sudden changes in the humidity level. Natural humidity variations due to seasonal changes or weather conditions will not trigger the sensor.
- Temperature sensor. Detects changes in room temperature. Actuates when the room temperature reaches 28 °C, and switches off at 24 °C.
- Motion sensor. Sensor responds to movement in the room.
- The light sensor is in automatic mode. It accumulates statistical information about the natural light level in the room and reacts only to sudden changes in light levels. Natural variations in light levels during the day will not trigger the sensor.

The fan has 8 preset operation modes, which are regulated by a multi-position switch.

Mode 1: The fan operates in constant ventilation mode at a speed of 20 m³/h; the motion sensor, light sensor at 60 m³/h and humidity sensor at 90 m³/h are active.

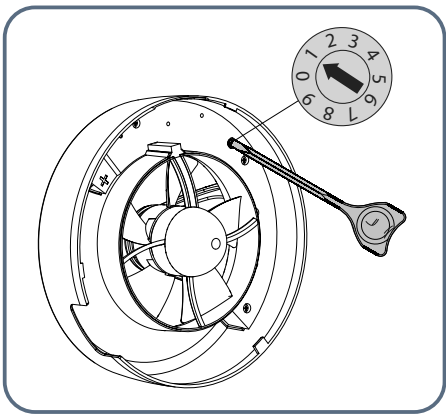
Mode 2: The fan operates in constant ventilation mode at a speed of 40 m³/h; the motion sensor and light sensor are active at 60 m³/h, and humidity sensor at 90 m³/h.

Mode 3: The fan operates in constant ventilation mode at a speed of 40 m³/h; the humidity sensor at maximum speed is active.

Mode 4: The fan operates in constant ventilation mode at a speed of 60 m³/h; the humidity sensor at maximum speed is active.

Mode 5: The fan is in standby mode; it is started by a signal from the motion sensor and the light sensor at a speed of 60 m³/h, as well as from the humidity sensor at a speed of 90 m³/h.

Mode 6: The fan operates in the interval ventilation mode: the fan turns on for 30 minutes every 12 hours at a speed of 20 m³/h; the motion sensor and light sensor are active at 60 m³/h, and the humidity sensor at 90 m³/h.



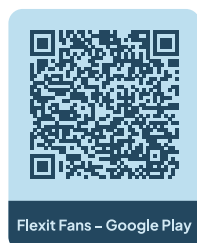
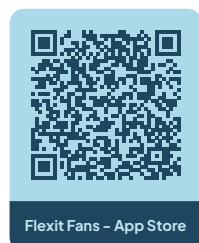
Mode 7: The fan is in standby mode; the temperature sensor activated at 90 m³/h; the fan starts at 28 °C and stops at 24 °C.

Mode 8: The fan is in standby mode; it starts on a signal from the humidity sensor at maximum speed.

Control of Bodo Supreme

Bodo Supreme is controlled via an app on your mobile phone or tablet.

Download the Flexit fans app by scanning the QR code below:

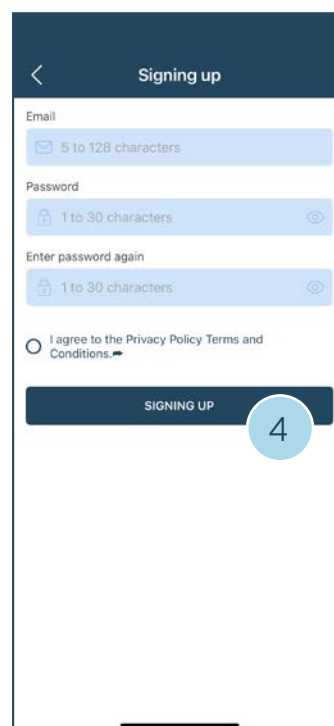
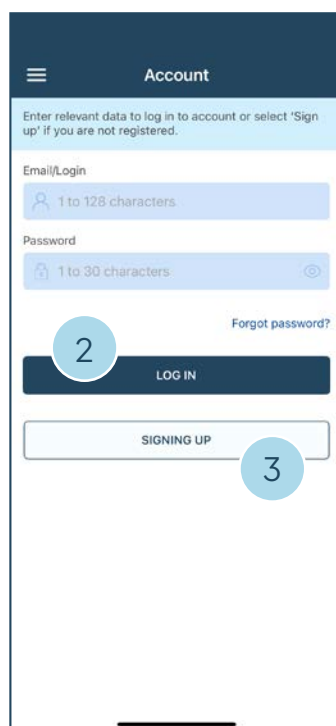
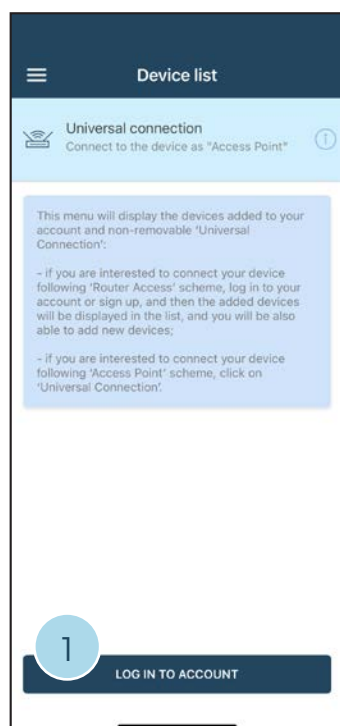


With the Flexit Fans app you get access to all functions. You can, among other things:

- Adjust sensors
- Fan speeds
- Monitor the operation and status of the fan

Account registration

- 1 Press **LOG IN TO ACCOUNT** under “Device list”.
- 2 If you already have an account, enter your information and press **LOG IN**.
- 3 If you do not have an account, press **SIGNING UP**.
 - Enter your email and desired password.
 - Check the box to accept the terms and conditions.
- 4 Press **SIGNING UP**.



Connecting Bodo Supreme

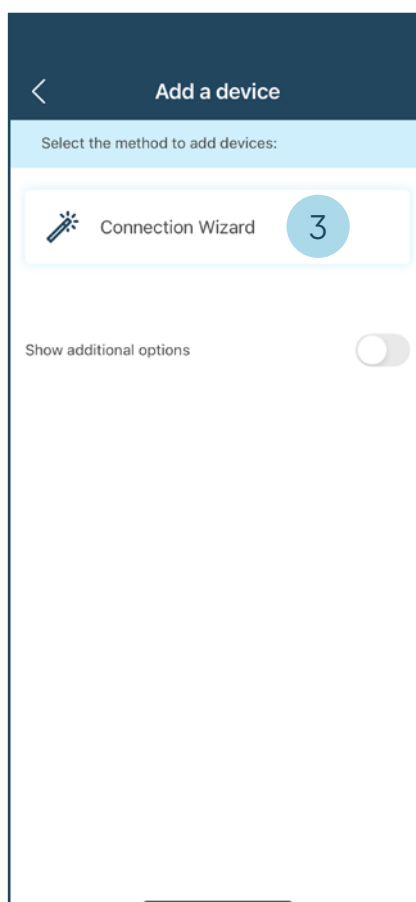
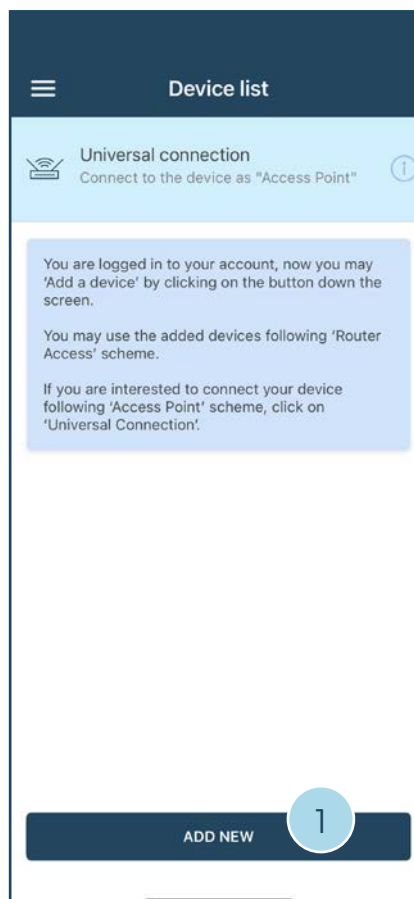
1 Press **ADD A DEVICE** under “Device List” in the menu with the three lines at the top left.

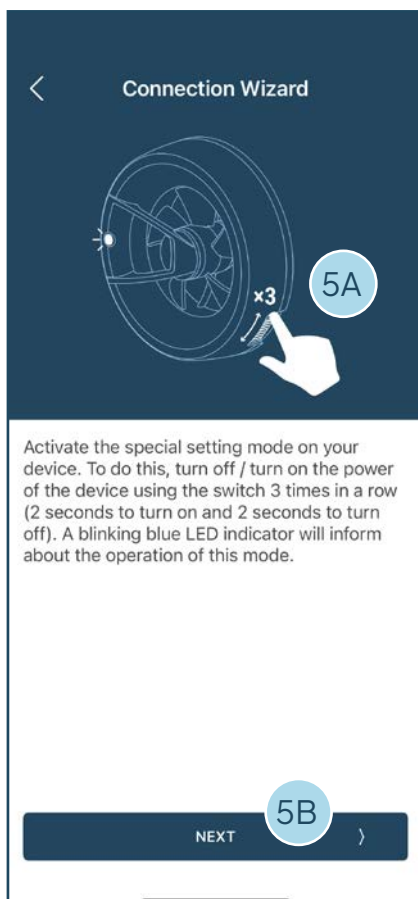
2 Press **BODO SUPREME**

3 Press **CONNECTION WIZARD**

4 **A.** Select your home network and enter the password for this network.
B. Press **NEXT**.

NOTE! Be aware that the device can only connect to a 2.4 GHz WiFi signal.





5

A. Activate "Setup mode" on the product by turning the power off and on using the switch on the side of the product. This is done as follows: turn the power on for 1 second, turn the power off for at least 3 seconds, and repeat this at least 3 times until the blue light starts blinking. Then wait approximately 20 seconds.

B. Press **NEXT**.

6

A window will now appear asking if you want to connect to the "Setup mode" network. This is the network shared by the product and used to complete the setup. Press **JOIN**.

7

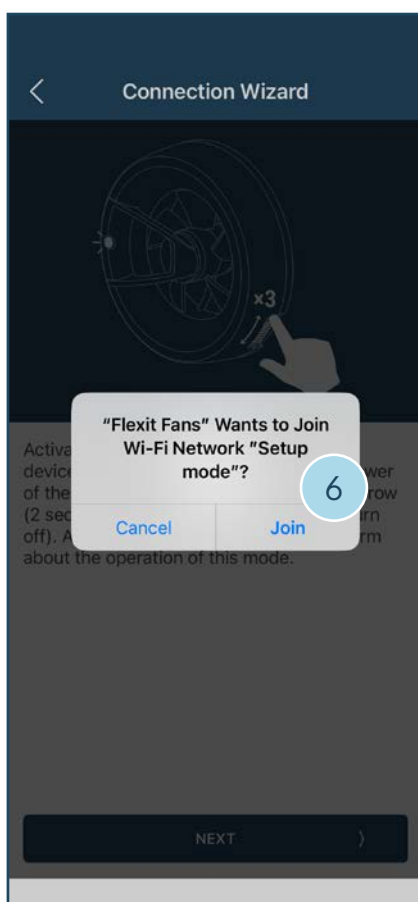
Enter the desired name and password for the device, or select the default settings that are already filled in.

The option **"Allow device management via cloud server"** must be checked to be able to control the product outside the home network.

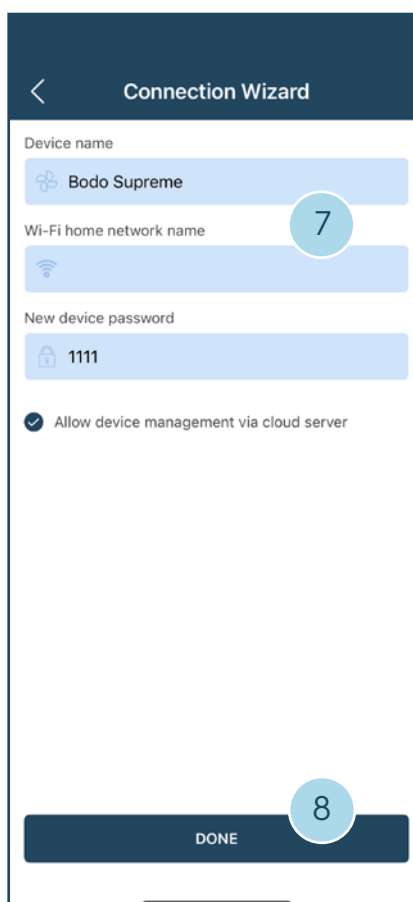
If this option is not checked, the product can only be controlled when the phone or tablet is connected to the home network.

8

Press **DONE**. The product will now take approximately 30 seconds to connect to the network selected in step 4. In the meantime, the phone will reconnect to the home network. The product will now appear in the device list.



6



7

8

Main modes

24 hours: The fan runs continuously at the selected speed: 20, 40 or 60 m³/h.

When the sensors are triggered, the fan switches to the speed selected in the application when configuring the corresponding sensor.

Interval ventilation: This mode is only available when the 24 Hours mode is off. When the interval ventilation mode is activated, if no sensor is activated during 24 hours, the fan is switched on for 30 minutes every 12 hours at the speed selected in the application: 20, 40 or 60 m³/h.

Boost: The fan runs at maximum speed for the duration of the turn-off delay timer.

Do not disturb: This function allows you to set a time interval during which the fan will not respond to sensors.

Sensors

Humidity sensor: The fan has a built-in humidity sensor with the following operating modes:

- Manual mode allows you to set the humidity threshold in the range from 40% to 80%. If this threshold is exceeded, the fan switches to the set speed of 60, 90 m³/h or maximum.
- Auto - intelligent humidity control. This mode provides for changing the threshold value of humidity in automatic mode. The fan independently selects the optimal humidity threshold for the room in which it is installed.

Motion sensor: When the motion sensor is triggered, the fan switches to the speed selected in the application 40, 60, 90 m³/h or maximum. When there is no more motion detected, the turn-off delay timer is activated. At the end of the turn-off delay timer countdown, the fan returns to the previous operating mode.

Light sensor: The light sensor works in automatic mode. It accumulates statistical information about the natural light level in the room and reacts only to sudden changes in light levels. Natural changes in light levels during the day do not trigger the sensor. When the light sensor is triggered, the 30 s turn-on delay timer is activated, after its countdown the fan switches to the speed selected in the application 40, 60, 90 m³/h or maximum. If the sensor detects an insufficient light level, the fan switches to the previous mode after the turn-off delay timer counts down.

Temperature sensor: Temperature and fan speed can be configured in the application. When the selected temperature is reached, the fan switches to the speed set in the application.

Air quality sensor: Manual mode allows you to set the air quality sensor threshold based on the air quality index in the range from 50 to 250 units. For an explanation of the air quality index values, see the table below. If the level of air pollution exceeds the set level, the fan switches to the speed selected in the application 60, 90 m³/h or maximum. Auto - intelligent air quality control. This mode allows you to change the air quality threshold automatically. The fan automatically determines the optimal threshold for the air quality sensor and reacts only to sudden changes in the level of air quality in the room.

Index for air quality classification (IAQ) on levels of volatile organic compounds in air

IAQ Index	Air quality	Influence (long term)	Recommended action
0–50	Excellent	Fresh air; best for well-being	No action required
51–100	Good	Does not irritate mucous or respiratory passages and does not affect well-being	No action required
101–150	Mild contamination	May cause a reduction in well-being	Ventilation is recommended
151–200	Medium contamination	More significant mucous membrane and respiratory tract irritation possible	Increase ventilation with clean air
201–250	Strong contamination	Exposure may cause effects such as headache	Optimize ventilation
251–350	Very heavy contamination	More serious health problems possible	Contamination should be identified if this level is reached even without people present; increase ventilation and reduce attendance.
> 351	Extreme contamination	Headaches possible, additional neurotoxic effects	Contamination should be identified, avoid presence in the room and ventilate as much as possible

Timers for after-run and delayed start

- The turn-off delay timer is configured in the application and is designed to keep the fan running for 5, 15, 30, 60 minutes when a sensor is triggered or the Boost mode is turned on.
- The turn-on delay timer is fixed and set to 30 s. Its countdown is activated when the light sensor is triggered to prevent the fan from turning on during short visits to the premises.

Operating settings before connection in the Bodo Supreme app

	Air flow	Mode	Setpoint
24-Hour mode	20 m ³ /h	On	
Interval mode	20 m ³ /h	Off	
Motion	60 m ³ /h	Off	
Lighting	60 m ³ /h	Off	
Air Quality	115 m ³ /h	Off	
Humidity	115 m ³ /h	Auto	
Temperature	115 m ³ /h	Off	26°C

WiFi technical data

Standard	IEEE 802.11, b/g/n
Frequency band [GHz]	2.4
Transmission power [mW] (dBm)	100(+20)
Network	DHCP
WLAN safety	WPA, WPA2

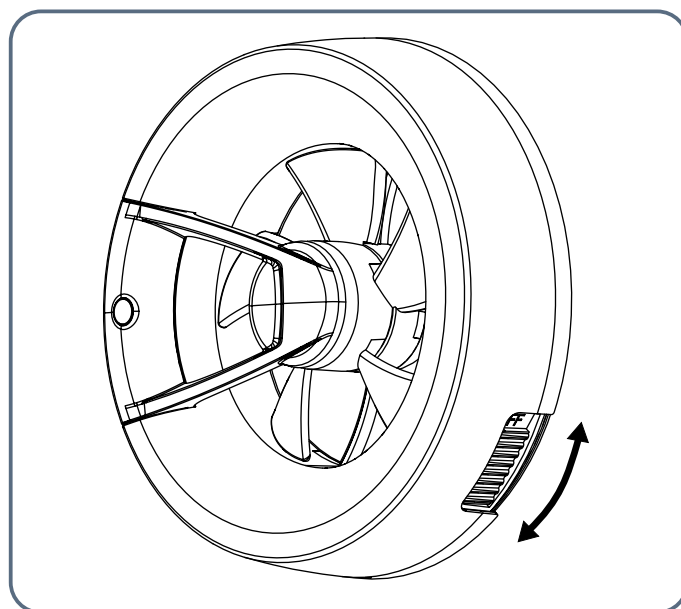
If you need to restore the WiFi password or connect a fan after changes to the WiFi network, you must use **“configuration mode/Setup mode.”**

To activate this mode, you need to turn the power off and on using the power switch on the side of the product. Do this as follows: turn the power on for 1 second, turn the power off for at least 3 seconds, and repeat this at least 3 times until the blue light starts blinking.

WARNING! Use an external DC power switch for 12 V power supply.

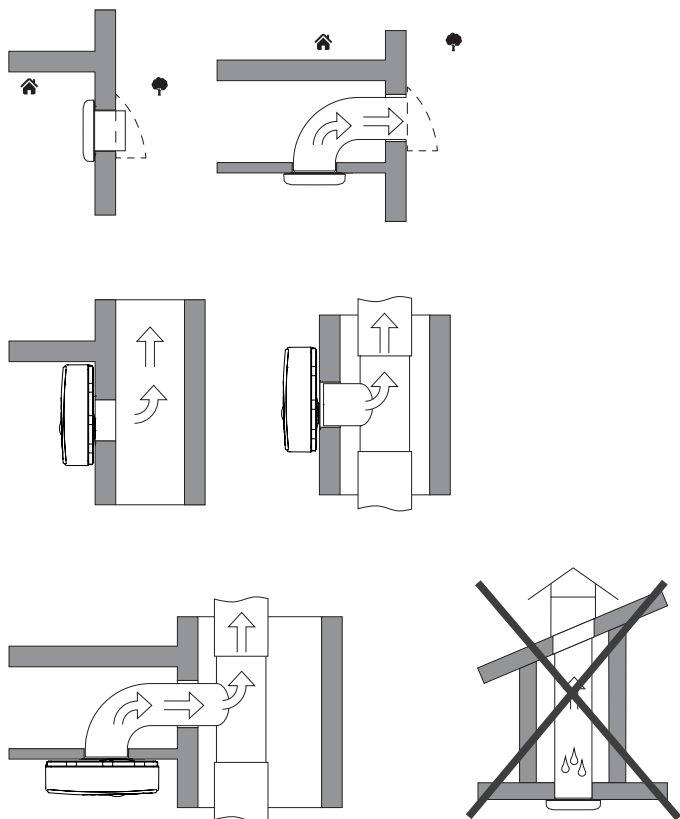
WARNING! Fans designed for 12 V (as indicated on the packaging and housing) must only be connected to a ~12 V power supply.

WARNING! The power cable must only be routed through the cable entry in the housing provided by the manufacturer. Using a self-drilled hole voids the manufacturer's warranty and releases the manufacturer from liability. Strip the cable insulation to a maximum of 8 mm.

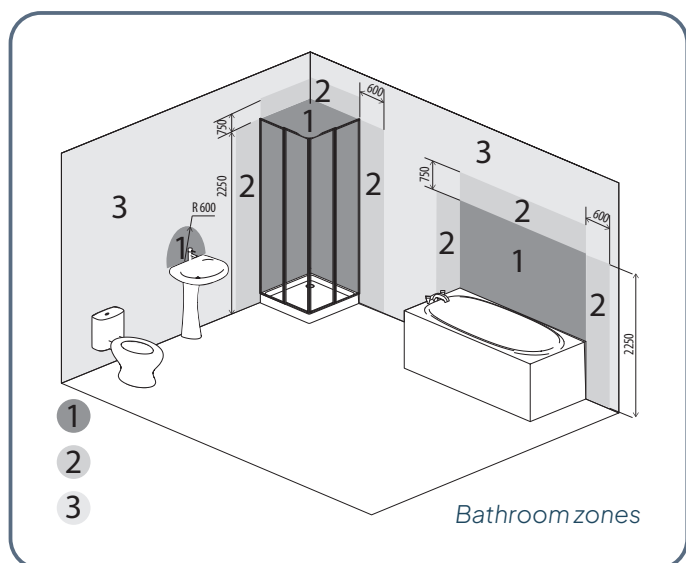


Installation

The fan can be installed on the ceiling or on the wall, with air discharge into a round air duct of suitable diameter. A fan with direct air discharge upwards must not be installed.

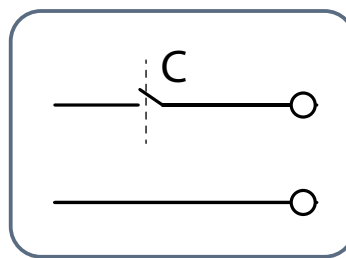


The unit can be installed in bathroom zone 1 (except in case of external electrical connection with power cable from above, see next page), provided that the installation and wiring are in accordance with IEC 60364-7-701 (current version) and in accordance with the national standards of the country of installation.

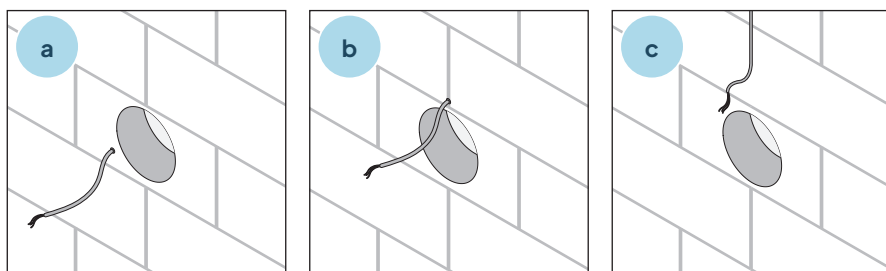


Fan installation sequence:

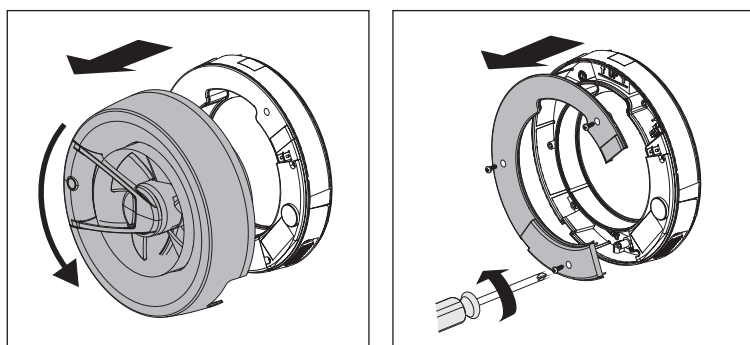
1. Cut off power supply to the unit and make sure that the electricity is switched off. For 12 V power supply, install an external DC power switch (not included in the delivery set).
2. Run the power cable to the vent hole. The cable can be entered through the back at the top or bottom of the fan (a, b), or through the top of the fan (c) if the cable is routed outside the wall/ceiling.



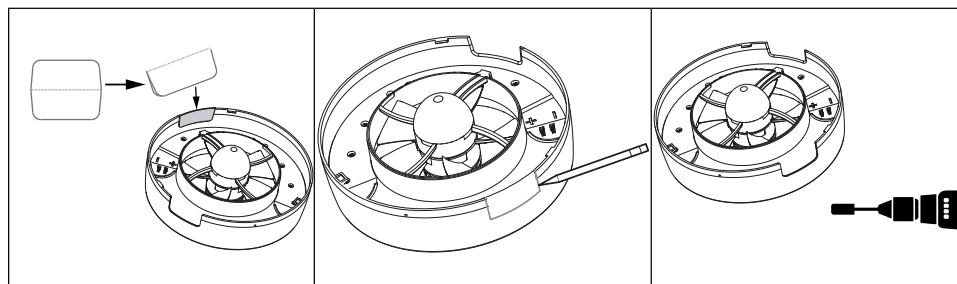
WARNING! The top mounting method (c) does not allow installing the fan in bathroom zone 1.



3. Remove the front panel from the fan and the cover.

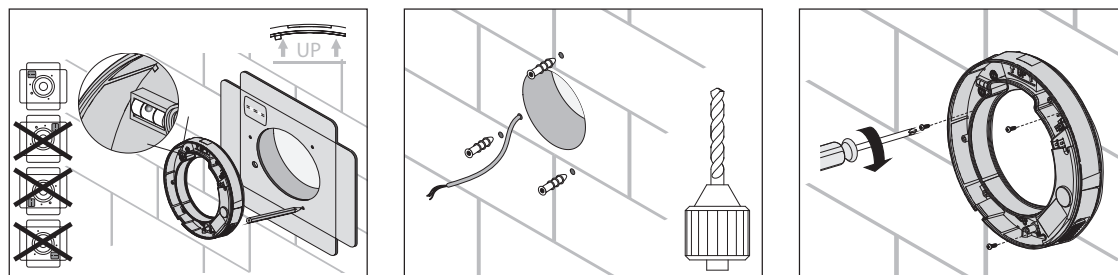


To route the cable from above, a hole must be cut in the top of the fan's front panel according to the recess markings. Use the template for cut-out to mark the cutting location. The front panel has less thickness where the template is to be attached. The template is detached from the insert in the packaging.



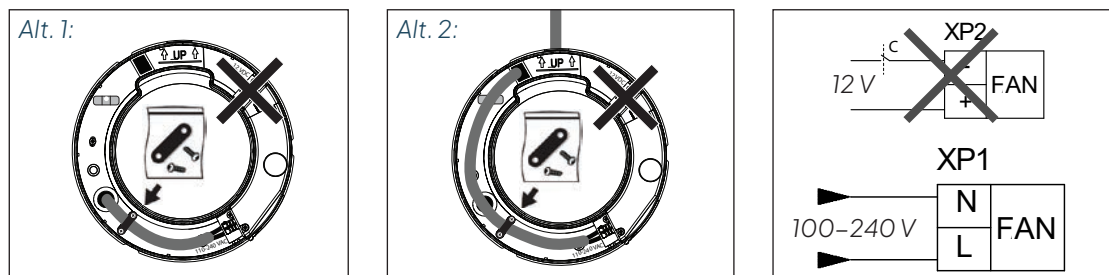
WARNING! Use an electric grinding tool or a suitable hand tool to make the hole.

4. Use the mounting template to mark the screw holes and power supply. The template is a part of the insert in the packaging. Drill the holes and install the fan. **NOTE:** Install the fan according to the direction indicated on the fan ("UP") using the integrated level.



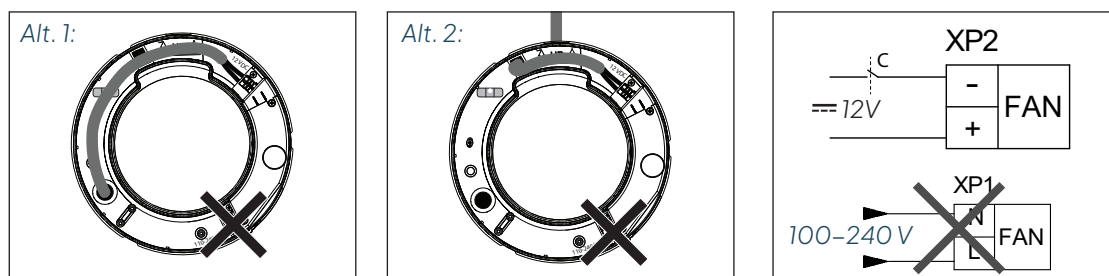
5. Run the power supply cable through the cable gland in the selected way and connect the fan to the power mains as shown in the wiring diagram. Secure the cable with strain relief/screws as instructed (included in a separate bag).

100-240 V AC



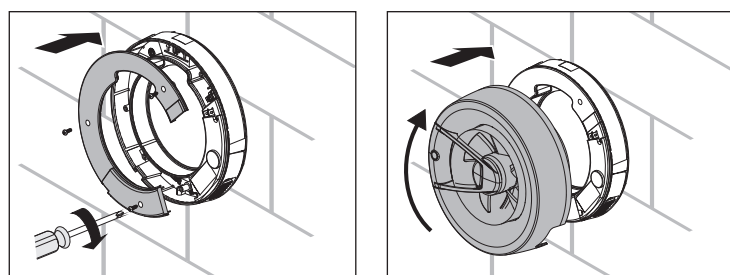
12 V DC

Remove the locking plug in front of the connection terminal when connecting the XP2 connector.



WARNING! Connect power supply to the XP1 or XP2 connector. Do not connect two power supplies at the same time.

6. Install the cover and the front panel back on the fan casing.



Connect the power supply to the fan.

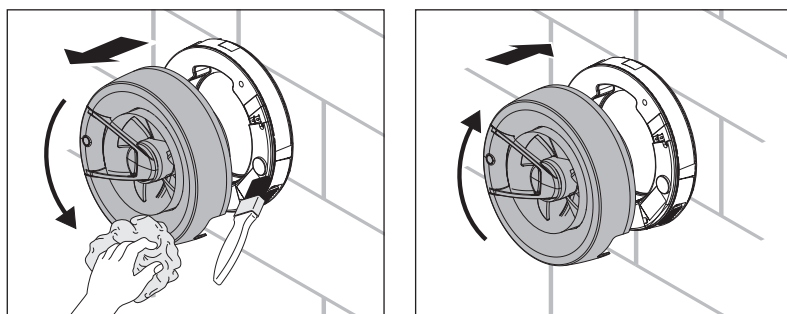
Technical maintenance

The fan maintenance periodicity is at least once per 6 months.

Maintenance steps:

- Disconnect the fan from power supply and make sure electricity has been turned off.
- Remove the front panel, wipe the fan with a dry cloth or a brush.
- Remove dust and dirt inside the duct.
- Install the front panel on the fan.
- Connect power supply to the fan.

WARNING! Do not allow water or liquid come into contact with electric components!



Troubleshooting

Problem	Possible reasons	Troubleshooting
When the unit is connected to power mains, the fan does not rotate and does not respond to any controls.	No power supply.	Make sure the power supply line is connected correctly, otherwise troubleshoot the connection error.
	Internal connection fault.	Contact the seller.
Low air flow.	The ventilation system is clogged.	Clean the ventilation system.
Increased noise, vibration.	The impeller is clogged.	Clean the impeller.
	The fan is not secured well or is not mounted properly.	Troubleshoot the installation error.
	The ventilation system is clogged.	Clean the ventilation system.

Storage and transportation regulations

- Store the unit in the manufacturer's original packaging box in a dry closed ventilated premise with temperature range from +5 °C to + 40 °C and relative humidity up to 70 %.
- Storage environment must not contain aggressive vapors and chemical mixtures provoking corrosion, insulation, and sealing deformation.
- Use suitable hoist machinery for handling and storage operations to prevent possible damage to the unit.
- Follow the handling requirements applicable for the particular type of cargo.
- The unit can be carried in the original packaging by any mode of transport provided proper protection against precipitation and mechanical damage. The unit must be transported only in the working position.
- Avoid sharp blows, scratches, or rough handling during loading and unloading.
- Prior to the initial power-up after transportation at low temperatures, allow the unit to warm up at operating temperature for at least 3 hours.

Warranty claims

WARNING! Warranty claims will only be valid if the instructions in the manuals have been followed.

Warranty claims for this product are subject to the existing terms of sale, and the product must have been used correctly and maintained.

The warranty may be rendered invalid **if the product is used incorrectly or maintenance is grossly neglected.**

Warranty claims resulting from incorrect or defective installation must be submitted to the installation company responsible.



Our products are subject to continuous development and we reserve the right to make changes.

We also disclaim liability for any printing errors that may occur.

Disposal



The symbol on the product shows that this product must not be treated as household waste.

It must be taken to a collection point for recycling electrical and electronic equipment.

By ensuring correct disposal of the equipment, you will help to prevent negative consequences for the environment and health that incorrect handling may entail.

For further information on recycling this product, please contact your local authority, your refuse collection company or the company from which you purchased it.

Product and environmental declaration

The product and production comply with existing international environmental requirements such as WEEE and the RoHS Directive.

EE-products (Electrical and Electronic products)

Flexit meets its obligations under the waste regulations/EE regulations.

EE waste must not be disposed of with other waste. When no longer needed it should be handed into a dealer or appropriate location at a local disposal/collection centre.



Flexit AS, Moseveien 8, N-1870 Ørje
www.flexit.com