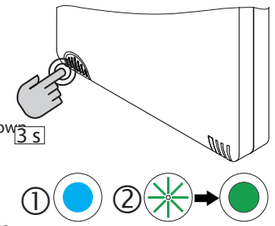
Activate additional components

- CO^2 sensor 810051 (for indoor use)

► Press the button.

⇨ The LED lights up turquoise.

► Press the button again and hold it down until the LED lights up green (approx. 3 s).

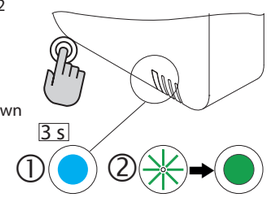


- Indoor temp./humidity sensor 810052 (for indoor use)

► Press the button.

⇨ The LED lights up turquoise.

► Press the button again and hold it down until the LED lights up green (approx. 3 s).

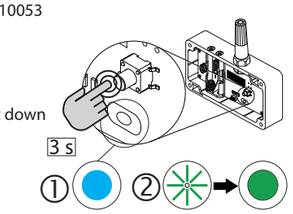


- Outdoor temp./humidity sensor 810053 (for outdoor use)

► Press the button.

⇨ The LED lights up turquoise.

► Press the button again and hold it down until the LED lights up green (approx. 3 s).



TIPS:

The LEDs on all components flash green when the device is connected and remain permanently green when the connection is complete.

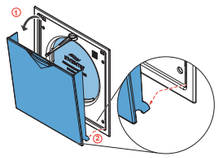
⇨ The figure for the number of connected devices on the control panel screen increases each time a device is connected.

► Continue with the numbering of the connected devices.

Replace the cover when all devices are connected.

NB:

► Install the cover by inserting the lower lips into the notch and pressing the cover onto the **Fresh Flow FDX inner panel.**



6 Operation

It is most convenient to control the Fresh Flow system using the 'Fresh Ventilation' app. Therefore, a description of this particular method of operation follows.

6.1 Start

► Download the 'Fresh Ventilation' app to your mobile device.

⇨ Once the app has been installed, an icon appears in the display.

► Touch the 'Fresh Ventilation' app icon in the display of the mobile device.

⇨ This opens the start screen.

► Tap the START field.

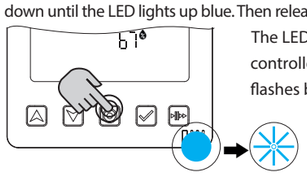
⇨ A box will appear with all available devices that can be connected to your mobile device.

► Tap the 'Control Panel' field.

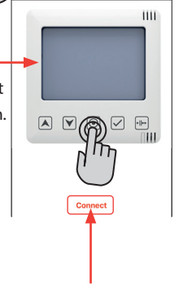
⇨ A prompt to connect the device to the controller

⇨ (via Bluetooth) appears in the display.

► Press the mode button on the control panel and hold it down until the LED lights up blue. Then release the button.



The LED on the controller now flashes blue.



► Press the 'Connect' field while the LED is still flashing blue.

⇨ The control panel is connected to the mobile device.

⇨ A message appears when the connection is complete.

► Tap the message.

► Enter a name in the box that appears. The name is your choice and may consist of max. 24 characters.

► Tap 'Done'.

⇨ The control panel appears in the display to indicate that it is connected and available. The Bluetooth symbol appears in blue.

Tap the field with the available controller to register it in the app.

6.2 Allocation of ventilation zones

Once all the desired components is integrated in the system, they can be allocated to a specific ventilation zone.

► To do this, tap the available control panel field on the mobile device.

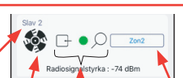
⇨ A box appears with the menus that can be selected:

- Zone view
- Device view
- Advanced setting

► Select device view.

⇨ All connected devices are displayed, including their status.

Example:



Device name

Device symbol Status Ventilation zone

► Tap the symbol of a connected device and rename it if necessary.

► Tap the Zone field and change the ventilation zone allocation if necessary.

TIPS: All components are allocated to ventilation zone 1 by default.

The control panel is always allocated to ventilation zone 1. The other components may be allocated to one of the four ventilation zones defined in the system.

Radio signal strength is a value of the signal strength between the Master and other devices, (Green: good signal strength, Yellow: poor signal strength.) See 'Repeater function' in manual 008648 for better radio connection.

6.3 Allocation of ventilation profiles

► Select Ventilation zone overview from the menu box.

► Tap the ventilation profile symbol in the box that opens.

⇨ A box with the characteristics of the ventilation zone opens.

► Tap the zone symbol in the box. This will open a pop-up menu in which you can select a different ventilation zone.

When you tap the corresponding zone symbol, the following values are displayed:

- *Fan mode for the ventilation zone*
- *Fan speed in the ventilation zone*
- *Ventilation zone profile*

► To enter these settings, follow the instructions in the menu on your mobile device or the description in the detailed system installation and operating instructions (• 008648).

TIPS:

For a description of the Advanced Settings menu item , see the detailed system installation and operating instructions (• 008648).

6.4 Close the settings menu

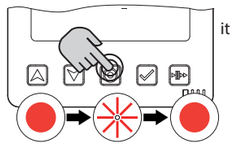
► Tap the arrow to return to the menu box.

TIPS:

You can always go back one step by tapping the arrow at the top left of a box.

7 Resetting the control panel and sensors

In order to enter new settings in the system, it may be necessary to reset the devices to their factory settings (soft reset).



Control panel

► Press the mode button and hold it down until the LED remains red.

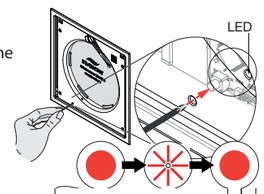
► Release the mode button.

⇨ The LED flashes red for approx. 5 seconds

► Press the mode button again to confirm the reset.

⇨ The LED is permanently red.

⇨ Then run the entire startup routine as described for initial commissioning.



Sensors

Applies to all devices (on the Fresh Flow FDX inner panel using a small screwdriver):

► Press the button and hold it down until the LED remains red.

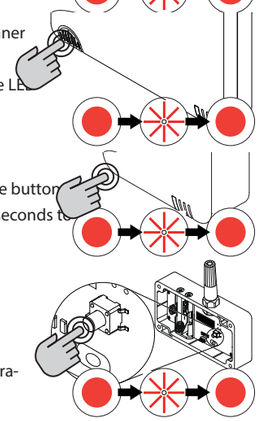
► Release the button.

⇨ The LED flashes red for approx. 5 seconds

► Press the button on the device or the mode button on the control panel again within these 5 seconds to confirm the reset.

⇨ The LED is permanently red.

⇨ Then run the entire startup routine as described for initial commissioning.



⇨ The system is now ready for a new configuration.

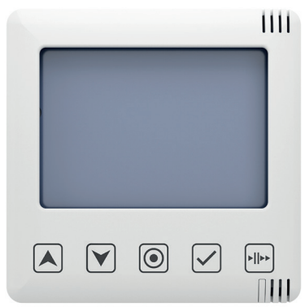
8 Warranty and service

We provide a five-year warranty covering manufacturing defects.

For the warranty to be valid, proof of purchase must be presented and the control panel must:

- be assembled and installed according to the installation guide.
- have been maintained in accordance with these instructions.
- be installed and used indoors.
- not be used in exposed environments, e.g. in industrial or other environments where there is a risk of the control panel being exposed to solvents, a high dust density, gases, etc.
- be connected to a power supply with a voltage of 100-240 VAC 50/60 Hz.
- not be subjected to lightning strikes or abnormal power surges.
- not have been subjected to any damage.
- have been installed in such a way that water cannot splash/flood the control panel.
- not have been installed in an environment where the temperature exceeds 50°C.

Any warranty claim is made at the place of purchase.



Fresh Control Panel 810050

English: Quick guide

7 User and safety instructions

To prevent personal injury and damage to property, read this manual carefully before operating the system and follow the instructions in the description.
The components of the system should only be used for the purposes specified. Modification or alteration of the product is not permitted.
All warranties are void if the product is used for purposes other than its intended use.
All system components meet the technical safety requirements and standards for electrical equipment. They may only be installed and used in conjunction with this documentation. Only qualified personnel may install the controller, connect the electrical system to the controller and commission the controller. For the purposes of the safety information in this documentation, qualified personnel are defined as persons authorised to install, commission and label equipment, systems and electrical circuits in compliance with safety standards.

Symbols used in the documentation

- NB: **Immediate or possible risk of material damage due to undesirable results/conditions.**
- TIPS:
  The TIPS symbol indicates practical and useful information for handling Fresh Flow FDX systems.
- ▶ **Action required:** Prompts the user to take a specific action.
- ⇨ **Action results:** A request to check the results of the action.
- A list of all tools and aids required for the actions precedes the sequence of actions.
- 🕮 Book: refers to another section of this documentation.

Maintenance: **If necessary, dust and wipe the control panel with a slightly damp cloth. NB: do not use solvents.**

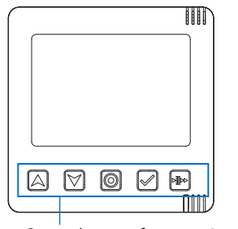
Control buttons on Fresh control panel 810050

Navigation buttons
Used for navigation and to change values.

Mode Button
Used to switch between and complete settings inställningar.

Selection button
Used to confirm settings.

Auto/Pause/Boost buttons
Used to switch the ventilation mode.



Ventilation mode

- Heat recovery
- Air throughflow (the two icons always act together)
- Pause/Off

Ventilation level (default setting)

1	25 %	Air flow	
2	35 %		
3	50 %		
4	100 %		

6 System overview

Fresh control panel is an innovative control system for decentralised Fresh ventilation equipment with heat recovery from Volution Sweden AB.
Using the control panel, separate devices may be connected to a single user unit in an 868 MHz wireless network in which they can be controlled and programmed wirelessly. The control panel may be extended with the following components, depending on design requirements and individual needs:

- **The control panel** 810050 (accessory)
  is the central hub of the wireless Fresh Flow FDX network.
  The control panel has an information screen and can be used for quick access. The panel is also used as the system's interface to the 'Fresh ventilation' app (Bluetooth interface, BLE).

- **The Fresh Flow FDX inner panel** 810001
  is a radio-controlled inner panel with a built-in ceramic heat exchanger package that can be connected to the wireless network.
  In addition to the wireless interface, the inner panels have a built-in power supply with electronics that detect humidity and temperature. Each panel can ventilate in one flow direction or recover the energy in the air by switching the flow direction every 70 seconds.

- **Sensor system**
  - **CO_2** sensor 810051 (accessory)
    (For indoor use, 230 V AC/50 Hz)
    A remote sensor that monitors carbon dioxide levels, temperature and humidity within a ventilation zone so that the ventilation can be adjusted where necessary.

  - **Indoor temp./humidity sensor** 810052 (accessory)
    (For indoor use, battery operated)
    A remote sensor that monitors temperature and humidity within a ventilation zone so that the ventilation can be adjusted where necessary.

  - **Outdoor temp./humidity sensor 810053 (accessory)**
    (For outdoor use, battery operated)
    A remote sensor for outdoor use that sends information about humidity and outdoor temperature to the system.

The following app is required in addition to the system's fixed components for complete control and programming:

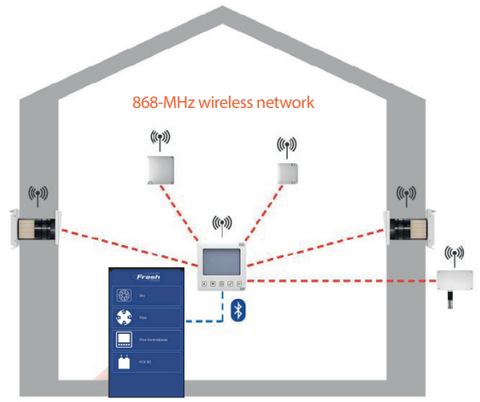
- The app is called 'Fresh Ventilation'
- it is a free app for Android and iOS which is used for controlling and programming the system. The system may also be commissioned without the app, in which case it is mainly controlled via the 810050 control panel. However, a mobile device (mobile phone or tablet) with the 'Fresh Ventilation' app installed is a prerequisite for all settings to be made and for all functions to be used.

ANDROID APP PÅ Google play

Ladda ner från App Store

8 How it works

The 810050 control panel is placed centrally within a user unit and distributes control commands to the devices.
The sensor system sends sensor data to the panel in real time:



Schematic example with two Fresh flow FDX and three different sensors

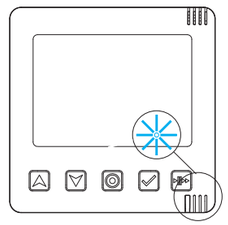
9 Installation

Install all supplied components according to the enclosed instructions:

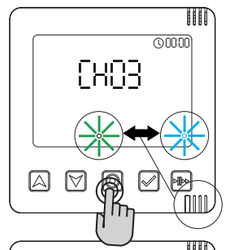
- Control panel 810050
- CO_2 sensor 810051
- Indoor temp./humidity sensor 810052
- Outdoor temp./humidity sensor 810053

10 First commissioning

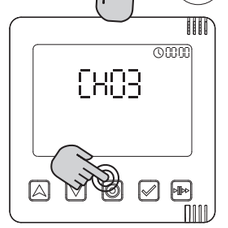
- ▶ Connection to the power supply
- ⇨ The control panel performs hardware tests for the system. The LEDs flash red, green and blue for the duration of the process.
- ⇨ The controller looks for the best radio channel. The LEDs flash turquoise.



- ⇨ The best radio channel is shown on the control panel display. The LEDs flash alternately green and turquoise.
- TIPS:
  There are five channels to choose from.
- ▶ Press the mode button to confirm the best channel.



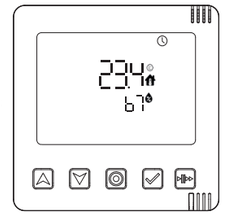
- ⇨ The control panel switches to the time and date setting.
- TIPS:
  You can skip this setting by pressing the mode button. No description of the setting is given here.
  The app automatically takes over the date and time settings.



- ⇨ The control panel is in standard mode. The room temperature and humidity are shown in the display.

You can now connect additional components to the Fresh Flow FDX system.

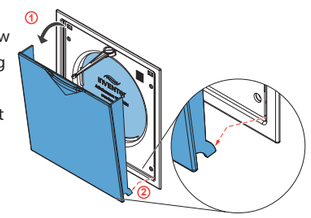
- TIPS:
  Up to 16 devices(Fresh Flow FDX and sensors) can be connected.



Connecting equipment

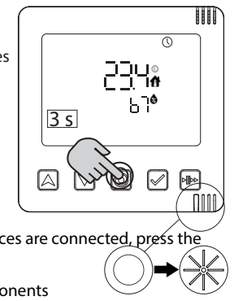
Remove the cover of the Fresh Flow FDX inner panel before connecting it.

- ▶ Remove the cover by pulling it forwards.
- ▶ Pull the lower lips out of the notch and remove the cover.

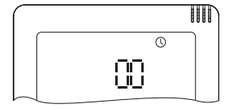


Activate the connection of devices on the control panel as follows:

- ▶ Press and hold the mode button for three seconds.
- ⇨ The LED lights up white. The LED continues to flash white when you release the mode button.
- TIPS:
  Activate the first device to be connected. While the white LED is flashing (approx. five minutes) more devices can be connected. If the LED goes out before all devices are connected, press the mode button again for 3 seconds.
  The control panel detects activated components automatically and the connection time will be longer.



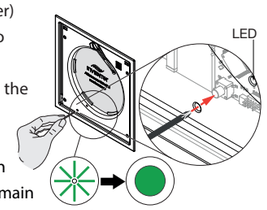
- ⇨ The control panel display will show the digits '00' if neither a fan nor a sensor has been detected and connected.



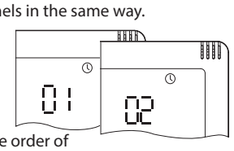
Connecting components

- **Fresh Flow inner panel**
  Tool (pin Ø 2 mm/50 mm long), e.g. screwdriver

- ▶ Insert the tool (e.g. a small screwdriver) into the hole, so that it can be used to operate the switch under the panel.
- ▶ Press the switch and hold it down until the LED lights up green (approx. 3 s).
- TIPS:
  The LEDs on the inner panel flash green when the device is connected and remain permanently green when the connection is complete.



- ▶ Activate and connect additional inner panels in the same way.
- ⇨ The figure for the number of connected devices on the control panel screen increases each time a fan is connected.



For better control, we recommend marking the order of the connected devices with the attached device numbers.

- ▶ Mark the first connected device (in this case, for example, the Inner Panel) with the number 1.
- ▶ Mark the next device connected in the same way.