



FlexitGO


EN

USER MANUAL (FUNCTIONS)

NORDIC

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1. Menu tree

This is a visualization of the menu tree. The different colours show different access.

- Standard shows what an end user can access.
- Installer shows the extra features you can access if you are logged on as installer.
- Accessories shows features that are visible if you have that particular accessory installed / configured.

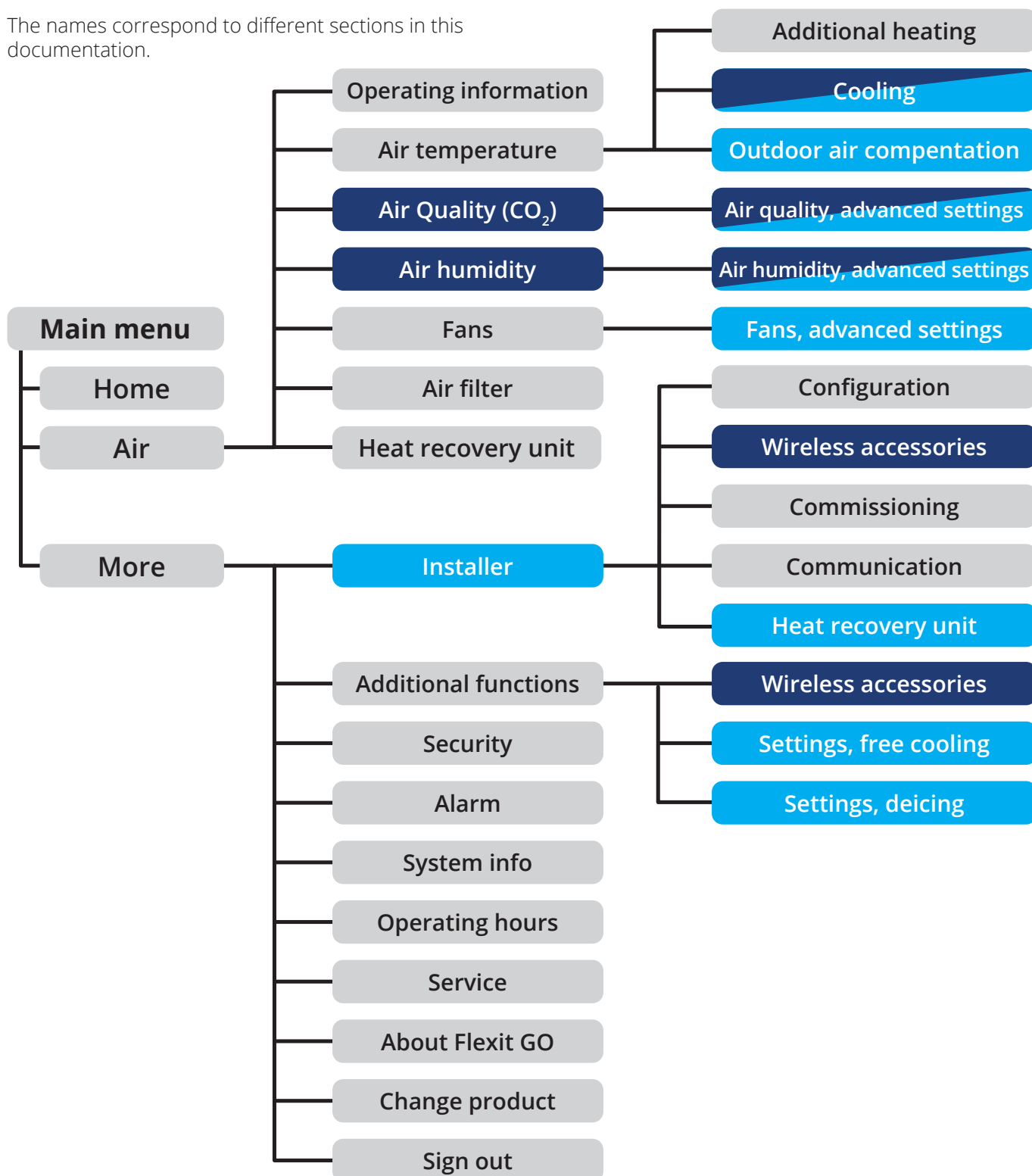
Colour explanation:

Standard

Installer

Accessories

The names correspond to different sections in this documentation.



2. How to read this manual



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.

The parameters described in this document are accessed via the Flexit GO app. They are available on different pages that you navigate to through the main menu and submenus. The menu structure is shown in the Menu tree chapter. In the top of each table (See Example table below) the path on how to navigate to that page is listed.

Depending on the configuration of your ventilation unit, some of the parameters are not used, which means that they or that page do not appear in the Flexit GO app.

In this document both end-user and Installer access is shown. You can see which user has access to which parameters. The table have columns (B and I) that defines access. For end-user access the column has title B, and for Installer access the column has title I. In these two columns you see the type of access according to:

- This means you have no access and will not even see the parameter.
- R This means you have read access.
- RW This means you have both read and write access.

Example table:

Path:
The path to this page. Ex. *Air/Air temperature*

Page title:
This is the Title of the page. Ex. **Air temperature**

Submenu:
This is a submenu that takes you to a new page. In the table, these are always indicated with the symbol ">" in the column before. If an end-user doesn't have access to any of the parameters in a submenu, they won't even see the submenu.

Section help text:
This is a text that helps explain the parameters under.

Parameter:
This is the actual parameter. In the table, these are always indicated with a number in the column before. If the parameter is referred to in any text, it is done so in the following manner: **{number | name}**
ex. **{951 | Parameter 1}**, this way they are easier to find.

Path

	Page title	B	I	Default	Range	Unit
>	Submenu					
	Section help text					
951	Parameter 1	RW	RW	10	10 - 30	°C
952	Parameter 2	R	RW	28	10 - 30	°C
	Section help text 2					
833		R	R		Mode 1; Mode 2; Mode ...	
	Section help text 3					
833	Parameter 4	--	RW	15	10 - 30	°C
788	Parameter 5	--	R	18	10 - 30	°C

Example table

This is an example of how information in example table is presented in the Flexit GO app depending on access level.

Page title
Submenu >
Section help text 1
Parameter 1 10°C >
Parameter 2 28°C
Section help text 2
Mode 1
(End user)

Page title
Submenu >
Section help text 1
Parameter 1 10°C >
Parameter 2 28°C
Section help text 2
Mode 1
Section help text 3
Parameter 4 15°C >
Parameter 5 18°C
(Installer)

3. Home

Air Panel

The air panel shows information on current ventilation mode, temperature setpoint, outside air temperature, air quality CO₂ (accessory), air humidity (accessory) and extract air temperature. From the air panel you can change ventilation mode and temperature setpoint.

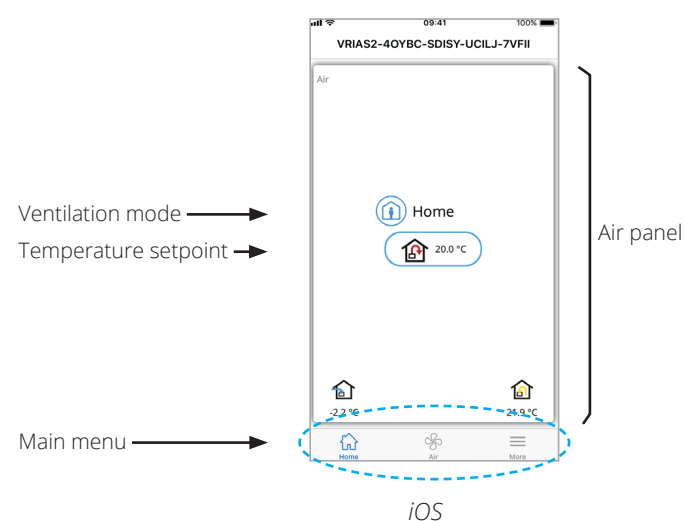
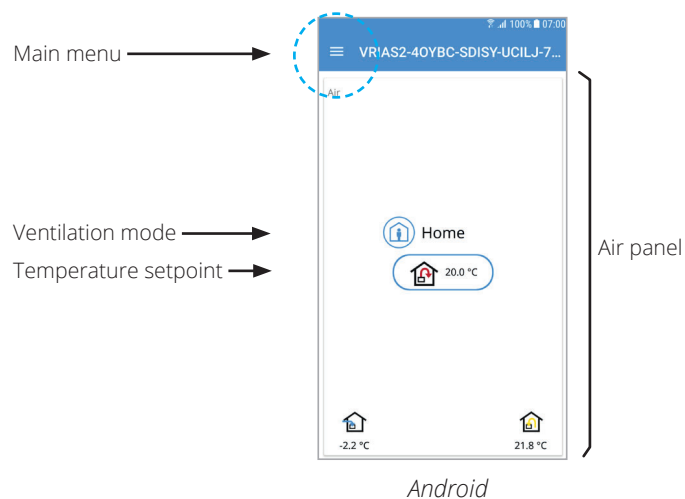
Five individual ventilation modes are available: Away, Home, High, Fireplace and Cooker hood. In each of the ventilation modes the required fan speed can be individually set for both supply and exhaust fans.

Separate temperature setpoints can be defined for HOME and AWAY ventilation modes. Ventilation modes High, Fireplace and Cooker hood use the same temperature setpoint as HOME mode.

You can also add accessories for air quality (CO₂) and air humidity. They have their own separate limits that can be set for ventilation modes, Home and Away. These functions can only control the fans during Home or Away mode. The colour of the icon will show if the value is under the limit or above.

The following table lists the icons used on the home page:

Icon	Description
	Outside air
	Supply air
	Extract air
	The air quality value is under the limit and the fans are running on the setpoint for the current mode
	The air quality value is over the limit and the fans are regulating to increase the air flow to reduce the value below the limit
	The air humidity value is under the limit and the fans are running on the setpoint for the current mode
	The humidity sensor in the exhaust air has initiated the dehumidification process and the ventilation mode has been increased to HIGH, to reduce the humidity.
	The air humidity value is over the limit and the fans are regulating to increase the air flow to reduce the value below the limit
	Indicates that a temporary mode is running. Remaining time is also shown

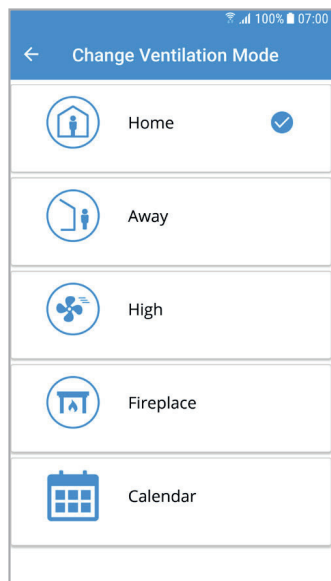


Icon	Description
	Indicates that the calendar is activated
	Calendar temporary overridden
	Active alarm (A banner with error code is also shown)
	Alarm not active, waiting for acknowledge
	Alarm acknowledged, but still active
	Alarm not active, waiting for reset
	Active maintenance (A banner with error code is also shown)
	Maintenance not active, but not acknowledged
	Maintenance acknowledged, but still active

3.1. CHANGE VENTILATION MODE

From this page you can change the ventilation mode. Ventilation modes can either be constant or temporary. Constant means they will be active until you change the mode. Temporary means that they will be active for the set duration after which the previous mode will take place.

When you click on a specific mode, it will expand to show the start button and for some modes the possibility to delay the start or set a duration.



Adjustment of airflow for the operating modes below should only be performed by qualified personnel. See the unit documentation for more information.



Home: This is a constant mode and is Intended for normal use when the building is occupied.



Away: This is a constant mode and is intended for use only when the building is unoccupied for extended periods. The Away mode should not be used when the residence is occupied and/or when there is an increased moisture load. The Away mode also has a delayed start, which can be adjusted.



High: This can be both a constant mode and a temporary mode with a set duration. It is intended for use when a higher ventilation demand is temporarily required.



Fireplace: This mode is used temporarily when lighting a fire in the fireplace. It is used to improve smoke extraction in the chimney by increasing the supply air flow and reducing the exhaust air flow.



Cooker hood: This mode is used to improve the removal of moisture and odors associated with cooking and can only be activated with a wireless or wired accessory mounted on the cooker hood. It is activated when you use the cooker hood.

3.2. CALENDAR

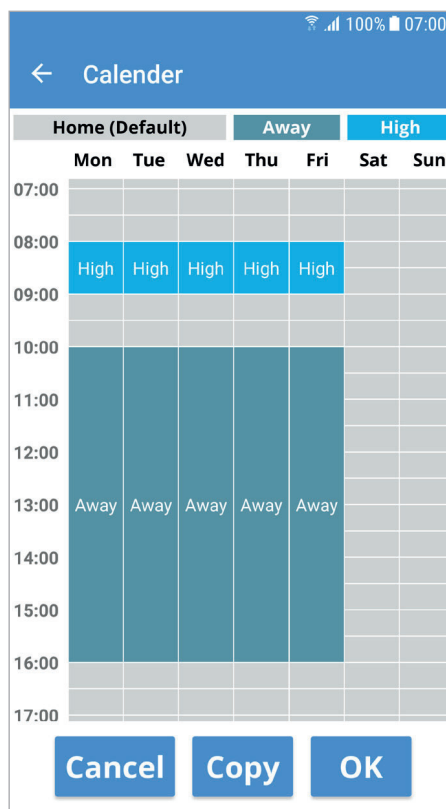
From this page you can activate the calendar function and define the calendar events. If the calendar is activated, a notification icon will show up in the top left corner of the air panel.

The default ventilation mode is the Home mode, this means that you can define the start and stop time for either Away or High mode. All other time the ventilation mode will be the Home mode.

You can add up to eight events per day in the calendar. To add an event, just click at the desired start time on the day you want to add the event. A yellow plus sign (+) will appear and if you click it again, a new page appears where you can select between ventilation mode Away or High, and change the start and stop time, by 30min intervals.

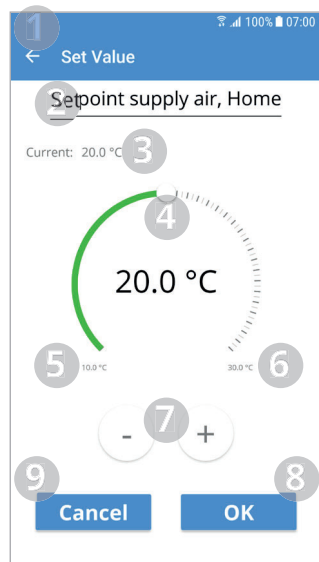
If you click on an already defined event, you can edit or delete it.

There is also a copy function. This is useful if you have defined one day, and then want to copy the same settings to other days. Just press the copy button, then choose a day to copy and select to which days you want it copied to and press ok.



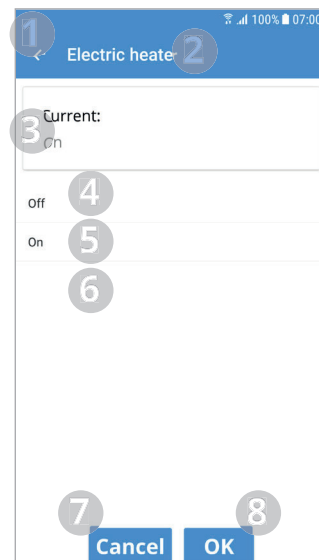
3.3. SET VALUE

From the set value page, you can set a new value for a parameter. For all parameters that are not selections and are writable you will get the set value page if you click it.



1. Navigate back.
2. The name of the parameter.
3. Current value (before change).
4. Value selector, slide or click along the scale to change the value.
5. Min allowed value.
6. Max allowed value.
7. Increase or decrease the value by the smallest resolution.
8. Write the new value.
9. Cancel, go to previous page.

For writable parameters that are selections you will get the below page if you click it.



1. Navigate back.
2. The name of the parameter.
3. Current selection (before change).
4. Choice 1. Click to select.
5. Choice 2. Click to select.
6. More choices if available.
7. Cancel, navigate back.
8. Write the selected choice.

3.4. AUTOMATIC FUNCTIONS

In the product, there are several automatic functions that can override the ventilation mode that is set. There are two categories of functions that can do this:

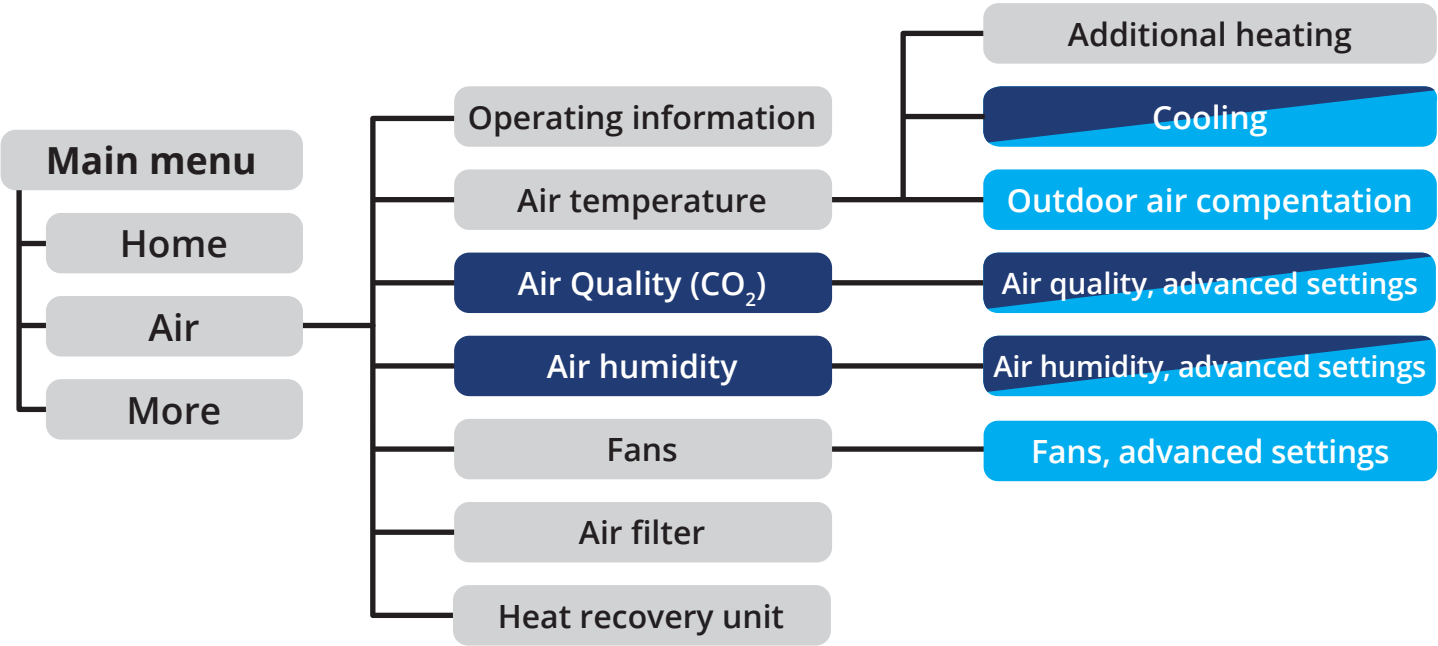
Security features

For more information see chapter ADDITIONAL INFORMATION and sub section Deicing.

Functions for demand control

For more information see chapters AIR QUALITY REGULATION and HUMIDITY REGULATION.

4. Air



Air/

	Air	B	I	Range	Unit
Grafic	Air Panel				
>	Operating information				
>	Air temperature				
*	> Air Quality (CO ₂)				
*	> Air Humidity				
>	Fans				
>	Air Filter				
>	Heat Recovery Unit				

*Accessories and/or configuration needed

4.1. OPERATING INFORMATION

On this page you can view the ventilation units operating information. The information shown here depends on the configuration and if you have installed accessories.

Air/Operating information

	Operating information	B	I	Range	Unit
	Ventilation mode				
29		R	R	Away; Home; High; Fireplace; Cooker hood	
	Sensors				
13	Outside air	R	R		°C
3	Supply air	R	R		°C
14	Extract air	R	R		°C
15	Exhaust air	R	R		°C
* 264	Air quality (CO ₂)	R	R		ppm
* 265	Humidity	R	R		%RH
	Supply fan				
19	Control signal	R	R	0 - 100	%
* 266	Duct pressure	R	R	30 - 250	Pa
20	Speed	R	R	0 - Max	rpm
	Extract fan				
22	Control signal	R	R	0 - 100	%
* 267	Duct pressure	R	R	30 - 250	Pa
23	Speed	R	R	0 - Max	rpm
	Heat recovery unit				
17	Mode	R	R	Heating; Cooling	
42	Speed	R	R	0 - 100	%
	Additional heating				
169	Setpoint		R		°C
18	Electric battery	R	R		%
* 96	Water battery	R	R		%
* 43	Return temperature		R		°C
*	Cooling				
* 159	Setpoint		R		°C
* 160	Water battery	R	R		%
* 168	DX status	R	R	Off; On	
	Demand controlled function				
213		R	R	«Empty = No demand controlled function»; Free Cooling; Deicing; Emergency shut down; Smoke control supply; Smoke control extract; Smoke purge	
	Digital inputs				
256	DI1	R	R	«Empty = Not active»; Stop; Away; Home; High; Fireplace; Cooker hood	
257	DI2	R	R	«Empty = Not active»; Stop; Away; Home; High; Fireplace; Cooker hood	
258	X8	R	R	«Empty = Not active»; Away; Home	

*Accessories and/or configuration needed

4.2. AIR TEMPERATURE

From this page you can change the temperature setpoint for ventilation modes Home and Away. You can also access other pages as shown in the table below depending on user level and configuration.

The product supports two different ventilation air temperature controlling strategies:

- Supply air control (Default)
- Extract air cascade control (Only for special use, needs to be configured)

Supply air control

The product aims to keep the supply air at the setpoint **{259 | Home}** or **{260 | Away}**. It uses heat recovery unit and the available and configured heating or cooling components to achive that.

Air/Air temperature

	Air temperature	B	I	Default	Range	Unit
	> Additional heating					
*	> Cooling					
	> Outdoor air compensation					
	Temperature setpoints supply air					
259	Home	RW	RW	20	10 - 30	°C
260	Away	RW	RW	18	10 - 30	°C

*Accessories and/or configuration needed

Extract air cascade control

This temperature control mode tries to keep the extract air temperature at the setpoint **{261 | Home}** or **{262 | Away}** by changing the supply air temperature between the min **{201 | Min}** – max **{200 | Max}** setting, using a cascade regulator. This temperature control mode can be used when your ventilation system is your primary heating source or during summer time if a cooling component is used.

Air/Air temperature

	Air temperature	B	I	Default	Range	Unit
>	Additional heating					
* >	Cooling					
>	Outdoor air compensation					
*	Temperature setpoints extract air					
* 261	Home	RW	RW	20	10 - 30	°C
* 262	Away	RW	RW	18	10 - 30	°C
*	Temperature limitation supply air					
* 201	Min	--	RW	16	10 - 30	°C
* 200	Max	--	RW	28	10 - 30	°C

*Accessories and/or configuration needed

Components

Heat recovery

The heat recovery unit is always the first step used in the temperature control. The purpose of the heat recovery is to take heat/cool energy from the extract air and transfer it back to the supply air. The heat recovery unit is an active element which uses a PI regulated stepper signal for speed control.

Additional heating

From this page you can turn on or off **{171 | Electric heater}** the electric heater (Default).

If a water battery is configured, only setpoints shown in the table below is shown.

When heating is required the first step is the heat recovery unit which recovers heat from the extract air. If the supply air temperature can't be reached only using the heat recovery unit the additional heating component will be used.

Air/Air temperature/Additional heating

	Additional heating	B	I	Default	Range	Unit
171	Electric heater	RW	RW	On	Off; On	
*	Settings Water battery					
* 184	Frost protection	--	R	10	0 - 30	°C
* 185	Frost risk	--	R	5	0 - 30	°C
* 186	Standby protection	--	R	25	0 - 30	°C

*Accessories and/or configuration needed

Cooling (Accessory)

This page is only visible for an installer and only if a cooling component is configured and installed.

When cooling is required the heat recovery unit can be used if the extract air is colder than the outside air. If the supply air temperature can't be reached only using the heat recovery unit the additional cooling component may be used.

Air/Air temperature/Cooling

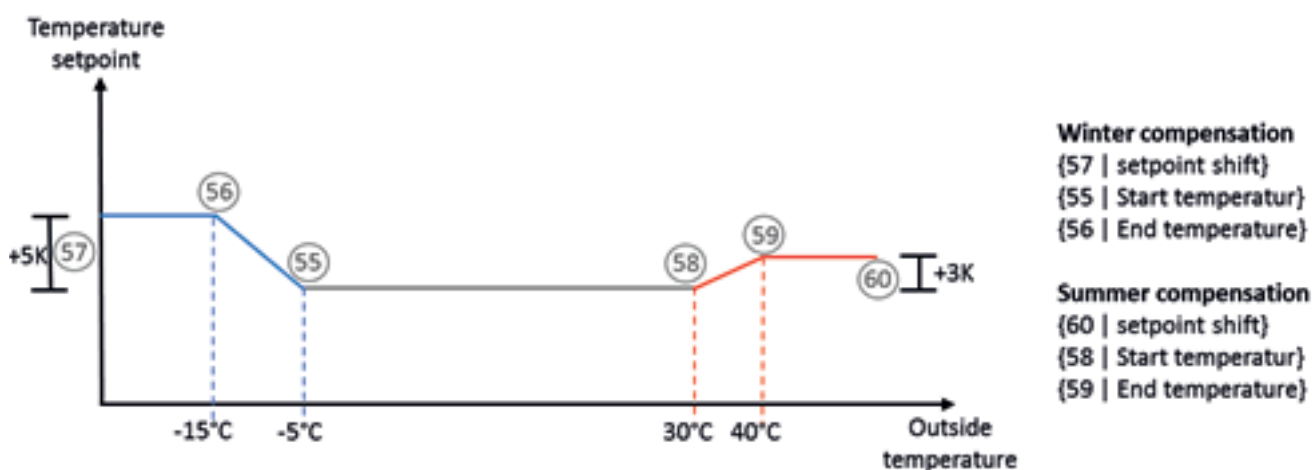
	Cooling	B	I	Default	Range	Unit
*	Outdoor temperature release for cooling					
* 158	Cooling release	--	RW	20	0 - 40	°C
	Limitations for DX on/off time					
* 166	Min DX off time	--	RW	300	0 - 3600	s
* 167	Min DX on time	--	RW	300	0 - 3600	s

*Accessories and/or configuration needed

Outdoor temperature compensation

From this page an installer can change the settings to activate this functionality.

During hot summer periods or cold winter times, the temperature setpoint may be weather compensated to increase comfort or cost-optimize the operation. Compensation can be set individually for summer and winter, with dedicated settings to adjust the temperature setpoint.



Outdoor temperature compensation is active when setpoint shift (57 or 60) is defined ($\neq 0$) and the outside temperature is below/above set start limits (55 or 58). It has an influence on the temperature setpoint for both supply air and extract air cascade control.

Air/Air temperature/Outdoor air compensation

	Outdoor air compensation	B	I	Default	Range	Unit
Winter compensation						
57	Setpoint shift	--	RW	0	-10 - 10	K
55	Start temperature	--	RW	-5	-50 - 0	°C
56	End temperature	--	RW	-25	-50 - 0	°C
Summer compensation						
60	Setpoint shift	--	RW	0	-10 - 10	K
58	Start temperature	--	RW	30	0 - 50	°C
59	End temperature	--	RW	40	0 - 50	°C

4.3. AIR QUALITY (CO₂) REGULATION (ACCESSORIES)

From this page you can see the air quality limits for ventilation modes Home and Away. As an installer you can also change the limits and certain settings explained below.

By using a CO₂ sensor as an input from a room, this function controls the fan speeds to keep the ppm-level under the set limit. Individual limits can be set for ventilation modes: **Away {44 | Away}** and Home **{45 | Home}**.

If the CO₂ level exceeds the set limit, the air quality controller increases the fan speed to bring in more fresh air. The calculation is performed by a PI-controller. Fan speed is controlled dynamically to a higher value until it reaches the HIGH ventilation mode speed for both fans, if necessary. Minimum speed is defined by the active ventilation mode.

During active air quality control, the speed of both fans will be increased and decreased linearly and simultaneously with symmetrical control signal which keeps the set difference in every situation and the air quality below the limit. When the ppm value drops below the limit, air quality controlling reduces the fan speed until the defined level for the active ventilation mode.

It is possible to use more than one Air quality (CO₂) sensor simultaneously from different rooms. In that case, the highest value is used. Air quality (CO₂) sensors are available as cabled (0-10V) or as wireless.



This function will temporarily override the selected fan speed settings. When the increased demand returns to normal level, the unit will return to the selected ventilation mode.

Air/Air Quality (CO₂)

	Air Quality (CO ₂)	B	I	Default	Range	Unit
>	Air quality, advanced settings					
	Limit					
45	Home	R	RW	700	500 - 1500	ppm
44	Away	R	RW	700	500 - 1500	ppm
	Sensors					
214	0-10V sensor	R	R			ppm
215	Wireless sensor	R	R			ppm

Air/Air Quality (CO₂)/Air quality, advanced settings

	Air quality, advanced settings	B	I	Default	Range	Unit
X3: Settings, 0-10V sensor						
97	Min input signal	--	RW	0	0 - 10	V
99	Max input signal	--	RW	10	0 - 10	V
101	Min input CO ₂	--	RW	0	0 - 3000	ppm
103	Max input CO ₂	--	RW	2000	0 - 3000	ppm

4.4. AIR HUMIDITY REGULATION

The purpose of the function is to dehumidify the building through increased ventilation. When the moisture level is back to normal, the product returns to the selected ventilation mode.

Depending on the type of humidity sensor used (extract air or accessory), the functionality partially differs. The two different methods are described in section 4.4.1 and 4.4.2.

4.4.1. HUMIDITY REGULATION WITH THE EXTRACT AIR HUMIDITY SENSOR



This function will temporarily override the selected fan speed settings. When the invcreased demand returns to normal level, the unit will return to the selcted ventilation mode.

NB! Make sure that ventilation mode HIGH is properly commisioned to your building, in order to achieve correct functionality.

The product includes an extract air humidity sensor, which measures the humidity level in the extract air duct and represents an average for the entire building. The sensor is used to control the dehumidification function inside the product.

The dehumidification function continuously monitors changes in humidity levels and activates when the humidity level exceeds a predetermined **{552| Switch-on point}**. Once activated, the function sets the ventilation mode to HIGH, and runs until a **{553| Switch-off point}** with decreasing humidity level is detected. After reaching the switch-off point, a time delay **{554| Switch-off delay}** is activated, to ensure that the dehumidification function is running until the

humidity increase has decreased. The unit then returns to the selected ventilation mode.

If the function cannot reduce the humidity level within a certain time after activation, **{555|Maximum runtime}**, the function ends, and the unit returns to the selected ventilation mode.

Note that the function only operates when the HOME and AWAY ventilation modes are selected.

If the dehumidification function is triggered too frequently or not often enough, you can adjust the sensitivity of the **{552|Switch-on point}**.

- A higher value slows down the function.
- A lower value speeds up the function.

The function can be enabled or disabled by changing the **{557|Enable humidity control}** setting.

Extract air sensor

	Air humidity	B	I	Default	Range	Unit
>	Air humidity, advanced settings					
Extract air sensor, sensitivity settings						
557	Enable humidity control	RW	RW	1	1:Disable 2:Enable	
552	Switch-on point	RW	RW	1	0,6 - 10	
553	Switch-off point	RW	RW	-0,3	-10 - -0,3	
550	Calculated value	R	R			
Extract air sensor, time settings						
554	Switch-off delay	RW	RW	30	0 - 120	Minutes
555	Maximum runtime	RW	RW	120	60 - 600	Minutes
Room sensors, limits						
*50	Home	R	RW	70	30 - 100	%RH
*49	Away	R	RW	80	30 - 100	%RH
Sensors						
560	Extract air sensor	R	R			%RH
*217	Wireless sensor 1	R	R			%RH
*218	Wireless sensor 2	R	R			%RH
*219	Wireless sensor 3	R	R			%RH

	Air Humidity, advanced settings	B	I	Default	Range	Unit
Duty cycle at high outdoor humidity for room sensor control						
*53	On time	--	RW	1800	0 - 10000	s
*54	Off time	--	RW	1800	0 - 10000	s

* Only visible if room sensors (accessories) are installed

4.4.2. HUMIDITY REGULATION (ACCESSORIES)

From this page you can change the humidity limits for ventilation modes Home and Away. As an installer you can also change certain settings explained below.

By using a humidity sensor as an input from a room, this function controls the fan speeds to keep the humidity level under the set limit. Individual limits can be set for ventilation modes: Away **{49 | Away}** and Home **{50 | Home}**.

If the relative humidity exceeds the set limit, the humidity controller increases the fan speed to bring in more fresh air. The calculation is performed by a PI-controller. Fan speed is controlled dynamically to a higher value until it reaches the HIGH ventilation mode speed for both fans, if necessary. Minimum speed is defined by the active ventilation mode.

Since increased ventilation alone cannot lower the humidity level in every situation, the controller calculates internally the dew point from the air humidity with a fix room temperature value of 22°C, to define if outside air temperature is sufficient for lowering the humidity level in the room. In case the outside air temperature is low enough to assure dehumidification, the PI-control works continuously. Otherwise, the PI works periodically with configurable on time **{53 | On time}** and off time **{54 | Off time}** for the function.

The function is deactivated when the relative humidity drops below the current limit.

It is possible to use more than one humidity sensor simultaneously from different rooms. In that case, the highest value is used.

Humidity sensors – Accessories (only visible if existing)

	Air Humidity	B	I	Default	Range	Unit
>	Air humidity, advanced settings					
	Limit					
50	Home	R	RW	70	30 – 100	%RH
49	Away	R	RW	80	30 – 100	%RH
	Sensors					
216	0-10V sensor	R	R			%RH
217	Wireless sensor 1	R	R			%RH
218	Wireless sensor 2	R	R			%RH
219	Wireless sensor 3	R	R			%RH



This function will temporarily override the selected fan speed settings. When the increased demand returns to normal level, the unit will return to the selected ventilation mode.

Air/Air Humidity/Air humidity, advanced settings (only visible if existing)

	Air humidity, advanced settings	B	I	Default	Range	Unit
Settings, 0-10V sensor						
*105	Min input signal	--	RW	0	0 - 10	V
106	Max input signal	--	RW	10	0 - 10	V
107	Min input R.H	--	RW	0	0 - 100	%RH
108	Max input R.H	--	RW	100	0 - 100	%RH
Duty cycle at high outdoor humidity for room sensor control						
53	On time	--	RW	1800	0 - 10000	s
54	Off time	--	RW	1800	0 - 10000	s

4.5. FANS

From this page you can change the fan setpoints for the different ventilation modes.

There are two ways the product can control the fans.
Fan speed control, which is the default and duct pressure control which needs accessories and a special installation / configuration.

Strategy	Unit	Comment
Fan speed control	%	Default
Duct pressure control	Pa	Needs accessories and special installation / configuration.

Fan speed control

The supply fan and extract fan have individual setpoints for each ventilation mode, percent value is used. These setpoints define the fan speed used in the various ventilation modes.

Air/Fans

	Fans	B	I	Default	Range	Unit
	Fan setpoints, Away					
32	Supply air	RW	RW	45	35 – Home	%
33	Extract air	RW	RW	50	35 – Home	%
	Fan setpoints, Home					
30	Supply air	RW	RW	70	Away – High	%
31	Extract air	RW	RW	75	Away – High	%
	Fan setpoints, High					
34	Supply air	RW	RW	90	Home - 100	%
35	Extract air	RW	RW	95	Home - 100	%
	Fan setpoints, Cooker hood					
38	Supply air	RW	RW	70	35-100	%
39	Extract air	RW	RW	75	35-100	%
	Fan setpoints, Fireplace					
36	Supply air	RW	RW	80	35-100	%
37	Extract air	RW	RW	70	35-100	%

Duct pressure control

The supply fan and extract fan have individual setpoints for each ventilation mode, pascal value is used. By using pressure sensors (Accessory) the product controls the fan speed to keep the duct pressure at a constant level. Duct pressure is commonly used together with VAV control.

If pressure sensor becomes faulty and control can no longer be guaranteed, fan control of the duct with faulty sensor is automatically switched to fan speed control. Setpoints used for the fan speed control are then calculated by using the maximum unit pressure value as 100% and setting the actual pressure setpoint proportionally according to the maximum value. Example: When maximum unit pressure is 100 Pa and AWAY pressure is set to 35 Pa then fan speed of 35 % (3,5 V) is used in case of a fault.

Air/Fans

	Fans	B	I	Default	Range	Unit
Fan setpoints, Away						
* 32	Supply air	RW	RW	90	30 - Home	Pa
* 33	Extract air	RW	RW	90	30 - Home	Pa
Fan setpoints, Home						
* 30	Supply air	RW	RW	90	Away - High	Pa
* 31	Extract air	RW	RW	90	Away - High	Pa
Fan setpoints, High						
* 34	Supply air	RW	RW	90	Home - 250	Pa
* 35	Extract air	RW	RW	90	Home - 250	Pa
Fan setpoints, Cooker hood						
* 38	Supply air	RW	RW	150	30 - 250	Pa
* 39	Extract air	RW	RW	70	30 - 250	Pa
Fan setpoints, Fireplace						
* 36	Supply air	RW	RW	150	30 - 250	Pa
* 37	Extract air	RW	RW	70	30 - 250	Pa

*Accessories and/or configuration needed

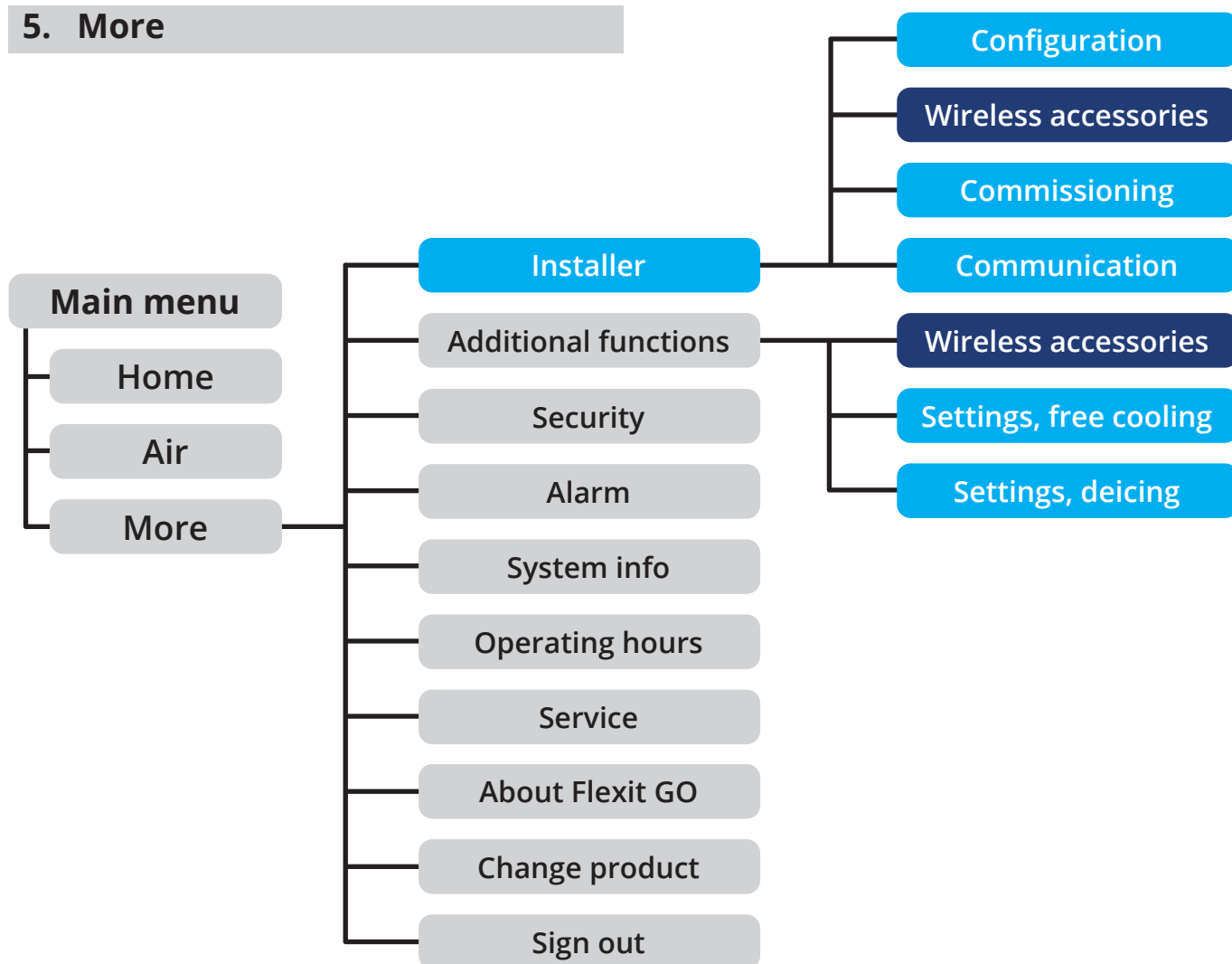
4.6. AIR FILTER

The air filters are default set to be changed every six months (The period can be changed, see chapter Additional functions). This will be shown as maintenance message 1020, or you can see how long time there is until a filter change is needed in the Air filter page. When it's time, you can reset the counter from the maintenance message or from the Air filter page.

4.7. HEAT RECOVERY UNIT

	Heat recovery	B	I	Default	Range	Resolution	Unit
Select the desired control for the rotary heat exchanger:							
590	Control	--	RW	1	Speed Control On/Off Control	0	0
Speed Control:							
	In this mode, the heat exchanger's rotor speed is regulated to maintain the supply air temperature at the setpoint, assuming the temperature conditions allow.						
On/Off Control:							
	In this mode, the heat exchanger's rotor speed will be set to 100% when there is a cooling/heating need, and 0% when there is no cooling/heating need, assuming the temperature conditions allow. The minimum time for how long the rotor speed should remain at each level can be adjusted.						
621	Min Off time (0%)	--	RW	20	10 to 600	10	min
622	Min On time (100%)	--	RW	60	10 to 600	10	min

5. More



	More	B	I	Range	Unit
>	Installer				
>	Additional functions				
*	> Security				
	> Alarm				
	> System info				
	> Operating hours				
	> Service				
	> About Flexit GO				
**	> Change product				
	> Sign out				

*Accessories and/or configuration needed

**Only over cloud account

5.1. INSTALLER

This page is only accessible when connected as installer using local network.

- **Configuration** is only necessary if accessories are to be installed and/or certain functionality or I/O needs to be added or changed.
- ***Wireless accessories** is only shown if the CI 75 Wireless adapter was connected and added in the configuration. From that page you can add wireless accessories (see chapter Wireless accessories).
- **Commissioning** starts a guide that steps the installer through the steps necessary for the specific installation, such as fan and temperature setpoints.
- **Communication.** Settings for BACnet/IP and Modbus communication.
- **Time zone.** Settings for time zone.

Configuration

When you enter this page, you will be prompted with a pop-up message informing you that to enter the configuration mode the application in the controller needs to be stopped and you can cancel or proceed. Stopping the application takes up to 2 minutes. The configuration is divided into 2 sections, functionality and hardware I/O.

Functionality

Under functionality you can configure the following functions. The default function is marked as **this**.

Function	Choice	Comment
Temperature control ventilation	<u>Supply air control</u> Extract air cascade control	
Fan control	Duct pressure <u>Fan speed</u>	Duct pressure is commonly used together with VAV control
Dehumidify control	<u>Off</u> On	Activate this function if you install humidity sensors.
Heating coil	None <u>Electrical</u> Water	
Cooling coil	<u>None</u> Water DX	For Water or DX, you also need to select the cooling pump on Q1, Q2 or Q3 and for Water, the valve output on X7 under hardware I/O. <i>*You cannot use Water cooling if you have Water heating.</i>
Fire damper	<u>No</u> Yes	For Fire damper you also need to configure output on Q1, Q2 or Q3 and the feedback on DI1, DI2 or X8.

Hardware I/O

In the Configure hardware I/O page it is possible to change functions of some in and outputs on the control system. The bold and underlined choice is the default selection on Nordic models.

Several I/O:s demands an accessory to be available for physical connection, please see comment in column "I/O available where" in table below, for more information.

I/O	Choice	I/O available where	Comment
DI1 Selection (Input)	None Cooker hood Fireplace *Fire damper feedback High Stop Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max	In 3-core cable on top of the unit.	Here you can choose the function of digital input DI1. The available choices are the different ventilation modes and the different Emergency inputs see chapter security. *If you have configured fire damper the feedback is available as a choice as well. If you select Emergency off, CO detector or Smoke detector, the input is automatically configured to NC function. All other selections are configured as NO function.
DI2 Selection (Input)	None Cooker hood Fireplace *Fire damper feedback High Stop Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max	In 3-core cable on top of the unit.	Here you can choose the function of digital input DI2. The available choices are the different ventilation modes and the different Emergency inputs see chapter security. *If you have configured fire damper the feedback is available as a choice as well. If you select Emergency off, CO detector or Smoke detector, the input is automatically configured to NC function. All other selections are configured as NO function.
X8 Selection (Input)	None Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max *Fire damper feedback Cooker hood Fireplace High Stop	As accessory, Cable harness, accessories Nordic	Here you can choose the function of digital input X8. The available choices are the different ventilation modes and the different Emergency inputs see chapter security. *If you have configured fire damper the feedback is available as a choice as well. If you select Emergency off, CO detector or Smoke detector, the input is automatically configured to NC function. All other selections are configured as NO function. This I/O can only be configured as "Cooker hood" on Nordic KS3 model.
Q1 Selection (Output)	None Outside air damper *Fire damper Common alarm and maintenance indication Alarm indication Maintenance indication Operation indication Bypass damper *Cooling pump	As accessory, Cable harness, accessories Nordic	Here you can choose the function of digital output Q1. *Fire damper and cooling are not visible until they are configured as a function. This I/O is not available on Nordic KS3 model.

I/O	Choice	I/O available where	Comment
Q2 Selection (Output)	None Outside air damper *Fire damper <u>Common alarm and maintenance indication</u> Alarm indication Maintenance indication Operation indication Bypass damper *Cooling pump	As accessory, Cable harness, accessories Nordic	Here you can choose the function of digital output Q2. *Fire damper and cooling are not visible until they are configured as a function. This I/O is not available on Nordic KS3 model.
Q3 Selection (Output)	<u>None</u> Outside air damper *Fire damper Common alarm and maintenance indication Alarm indication Maintenance indication Operation indication Bypass damper *Cooling pump	As accessory, Cable harness, accessories Nordic	Here you can choose the function of digital output Q3. *Fire damper and cooling are not visible until they are configured as a function. This I/O is not available on Nordic KS3 model.
Y1 Selection (Output)	None <u>Electrical heater</u> Pump water heater	As accessory, Cable harness, accessories Nordic	This digital output Y1 is read only and is automatically set to correct choice depending your choice of heating coil. This I/O is not available on Nordic KS3 model.
X4 Selection (Input)	None <u>Thermostat overheating</u> Return water temperature	As accessory, Cable harness, accessories Nordic	This input X4 is read only and is automatically set to correct choice depending your choice of heating coil. This I/O is not configurable on Nordic KS3 model.
X7 Selection (Output)	<u>None</u> 0-10V Water heater valve *0-10V Water cooling valve	As accessory, Cable harness, accessories Nordic	Choose Water cooling valve on analog output X7 if you have configured water cooling under functionality. This I/O is not available on Nordic KS3 model.
Wireless accessories	<u>None</u> Connected	On top of the unit.	Make sure that the adapter CI-75 is connected before you choose Connected.

5.2. ADDITIONAL FUNCTIONS

From this page you can see if the functions Free cooling and Deicing are enabled or not and which interval time the filter change has. As an installer you can access and change the settings for those functions and change the filter change interval **{459 | Interval}**.

You can also access the wireless accessories page to add wireless devices if the CI 75 Wireless adapter is connected and configured.

More/Additional functions

	Additional functions	B	I	Default	Range	Unit
*	>	Wireless accessories				
206	Free cooling enabled	R	RW	Off	Off; On	
	>	Settings, free cooling				
118	Deicing enable	R	RW	Off	Off; On	s
	>	Settings, deicing				
	Filter change, interval setting					
459	Interval	R	RW	4380	0 - 8760	h

*Accessories and/or configuration needed

Wireless accessories (Accessory)

This page is only shown if the CI 75 wireless adapter has been connected and configured.

When the CI 75 Wireless adapter is connected and configured, you can add the following wireless devices:

Device	Max qty
CI78 - Control panel	3
CI77 - RH sensor	3
CI76 - CO ₂ sensor	1
CI79 - Pressure switch	1

This page exists both here and under the Installer page. From this page you can add wireless accessories. Chose the device you want to add **{149 | Chosen device}** and then wait for the **Pairing process status** to show **Start pairing procedure**, then activate the commissioning command on the wireless device and wait for the **Pairing process status** to show **Closed** and the chosen device to shift it's connected status under **Connected devices** from No to Yes. The procedure is the same for all wireless devices except for activating the commissioning command on the device itself.

More/Additional functions/Wireless accessories

	Wireless accessories	B	I	Default	Range	Unit
	Add wireless device					
149	Chosen device	RW	RW		All devices	
	Pairing process status					
233		R	R	Closed	Closed; Start pairing process	
	Connected devices					
224	CI78 - Control panel 1	R	R	No	No; Yes	
225	CI78 - Control panel 2	R	R	No	No; Yes	
226	CI78 - Control panel 3	R	R	No	No; Yes	
227	CI77 - RH sensor 1	R	R	No	No; Yes	
228	CI77 - RH sensor 2	R	R	No	No; Yes	
229	CI77 - RH sensor 3	R	R	No	No; Yes	
230	CI76 - CO ₂ sensor	R	R	No	No; Yes	
231	CI79 - Pressure switch	R	R	No	No; Yes	
	Remove wireless device					
232	Chosen device	RW	RW		All devices	

Free cooling

The purpose of the Free cooling function is to ensure that overheated living area can be cost efficiently cooled down by using the lower outside temperatures just by increasing the air circulation. As an end user you can see if this function is activated or not, to change that and access the settings you need installer access.

Activation of the function occurs when the outside air temperature is more than **{210 | DT B3-B4 enable start}** lower than the extract air temperature, and the extract air temperature is above **{205 | Extract temp setpoint}**, and the outside air temperature is above **{208 | Outside temp limit}**. During activation, the ventilation mode is set to HIGH and kept there until the extract air temperature is below **{205 | Extract temp setpoint}** or the outside air temperature is less than **{211 | DT B3-B4 disable}** lower than the extract air temperature, and more time than **{212 | Min on time}** has elapsed.

More/Additional functions/Settings, free cooling

	Free cooling	B	I	Default	Range	Unit
205	Extract temp setpoint	--	RW	22	10 - 30	°C
208	Outside temp limit	--	RW	18	10 - 30	°C
212	Min on time	--	RW	600	0 - 10000	s
Advanced settings						
210	DT B3-B4 enable start	--	RW	4	0 - 10	K
211	DT B3-B4 disable	--	RW	1	0 - 10	K

Deicing

Nordic CL/KS series - The function is enabled

Nordic S series - The function is not enabled

The purpose of the function is to periodically get rid of ice from the heat recovery unit. Depending on prevailing conditions ice may start to accumulate on the unit or in some situation ice may already exist when the function is activated.

When the defrost function of the heat recovery unit is active, it will change the ventilation mode while running, which has a higher priority than the selected ventilation mode.

After defrosting is complete, the product returns to the selected operating mode.



The defrost function will override Fireplace and Cooker hood ventilation modes. This can cause a suppression in the building, resulting in a poor functionality of the Fireplace and Cooker hood ventilation modes.

As an installer you can change the speed of the heat recovery **{122| Recovery speed}**, the speed of the supply fan **{123| Supply fan}** and the speed of the extract fan **{124| Extract fan}** for the active period of the function, if it isn't working satisfactory.

More/Additional functions/Settings, Deicing

	Deicing	B	I	Default	Range	Unit
Exhaust air temperature for activation of						
119	Rotor reduction	--	R	0	(-)30 – 10	°C
120	Fan reduction	--	R	0	(-)30 – 10	°C
Settings for active deicing						
121	Active time	--	R	420	0 – 3600	s
122	Recovery speed	--	RW	100	0 – 100	%
123	Supply fan	--	RW	15	0 – 100	%
*				30	0 – 250	Pa
124	Extract fan	--	RW	75	0 – 100	%
*				150	0 – 250	Pa
Settings for off time ramp start						
126	Max off time	--	R	6900	60 – 18000	s
125	Off time ramp start	--	R	0	(-)50 – 0	°C
Settings for off time ramp end						
128	Min off time	--	R	1800	60 – 18000	s
127	Off time ramp end	--	R	-9	(-)50 – 0	°C

*Accessories and/or configuration needed

5.3. SECURITY

Fire damper

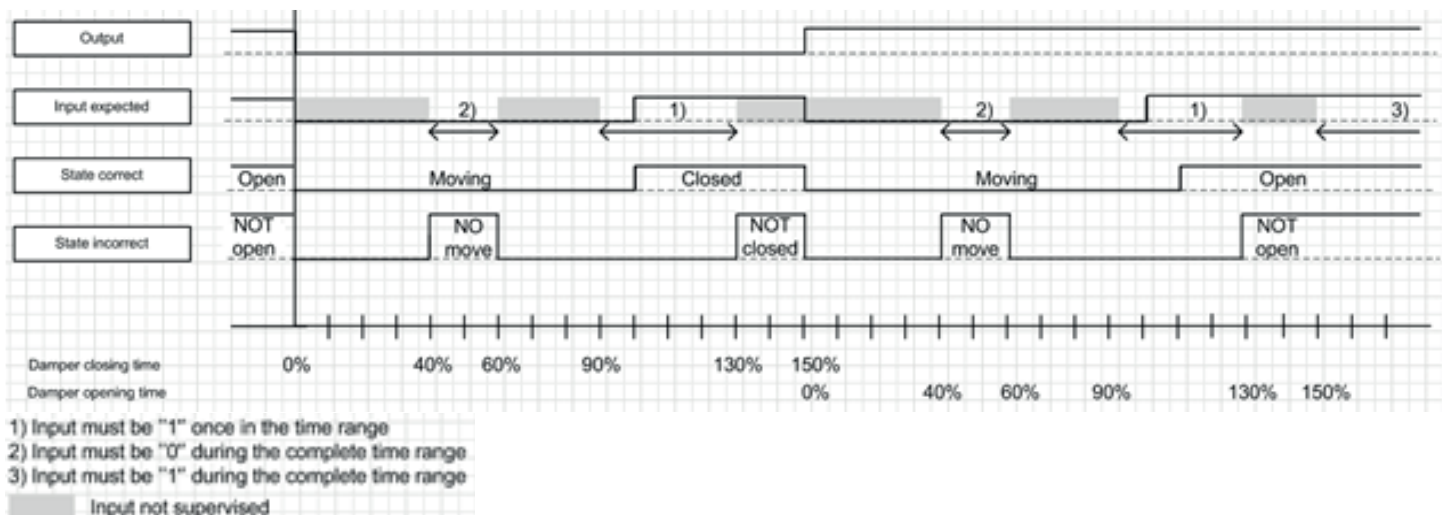
This page is only available for installers and if you have installed and configured a Fire damper. The fire dampers, which will close automatically when fire alarm from duct temperatures (If supply air temp or extract air temp is above 72°C) or smoke / fire alarm "Smoke detector - off" is active. In normal operational situation when power is on, the dampers are always open. When power drops off, dampers close automatically. After fire dampers have been closed due to alarm situation, normal operation cannot be resumed before error is manually acknowledged and reset.

Local fire safety regulations may require that fire dampers are being **periodically tested** to secure correct operation. Testing period is automatically made after interval is set. During active fire damper operation test the ventilation is first shut down, then dampers are driven close and back open again before ventilation may be resumed. Fire dampers have inbuilt auxiliary (limit switch) switches on both open and closed positions which signalizes that movement was successful. Limit switch works as a fire damper feedback.

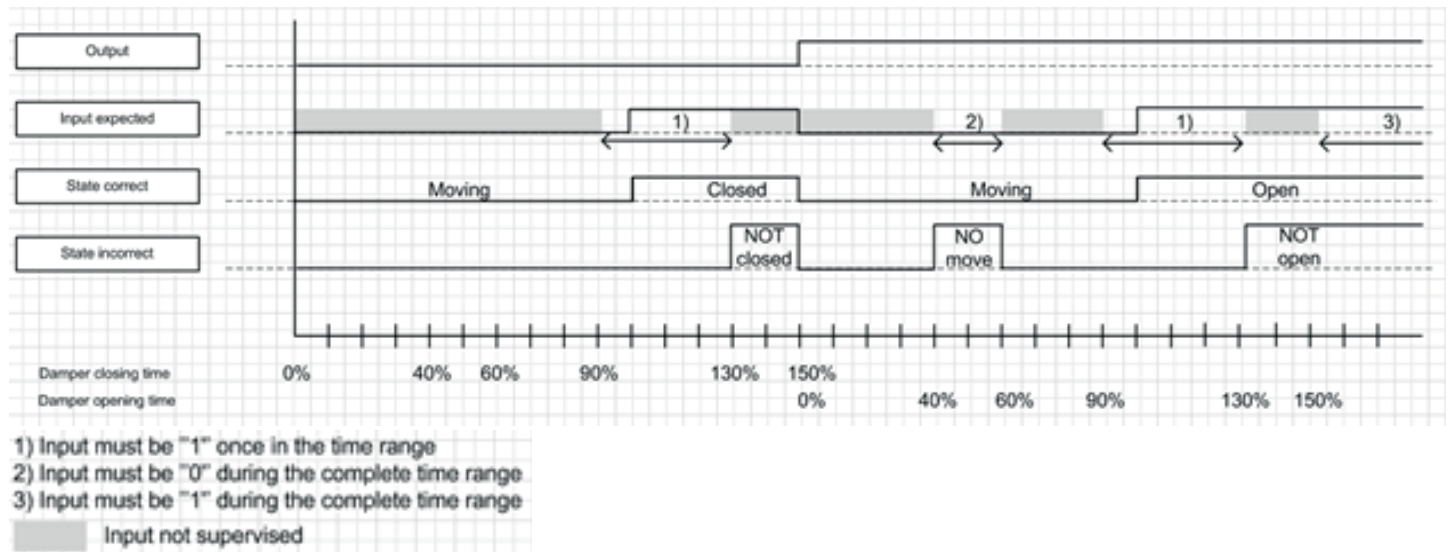
The feedback signal is "active" at both closed and opened damper position and is "inactive" if the damper is in the middle position. If one of these signals is missing, A-alarm is generated, and unit is stopped. However, fire damper doesn't close in this particular case.

At start up and during test a **full test cycle** is executed

0. Start
1. Closing (Feedback = 0)
2. Closed (Feedback = 1)
3. Opening (Feedback = 0)
4. Open (Feedback = 1)



After power up and after Acknowledge/Reset the actual damper position is not known.
Due to that only a **partial test** cycle is performed



Incase fire dampers are equipped with own thermostat, during fire situation dampers close autonomously and feedback signal will become inactive and generate an A-alarm for fire situation with emergency shut-down.

CO/smoke /fire alarm detection

Ventilation unit can be equipped with various kinds of hazard indicators such as smoke, carbon monoxide detectors or human interaction (push button). Within first phase of fire situation, it can be assumed that ventilation may be used to help the prevailing situation, thus functionality is different from temperature driven fire alarm coming from temperature measurement or fire damper indication.

Depending on the requirements, the ventilation unit can be set to react on an active signal in 6 different ways:

- "CO detector" signal on X8: Both fans would be switched to 100% speed in case of active alarm
- "Emergency off" signal on X8: Both fans would be switched to 0 % speed in case of active alarm
- "Smoke detector - supply" signal on X8: Supply fan would be switched to 100% speed and exhaust fan to 0 % speed
- "Smoke detector - extract" signal on X8: Supply fan would be switched to 0% speed and exhaust fan to 100% speed
- "Smoke detector - off" signal on X8: Both fans would be switched to 0 % speed in case of active alarm
- "Smoke detector - max" signal on X8: Both fans would be switched to 100% speed in case of active alarm

If any of these is configured, the status of the input is shown under **X8 input status**.

As long as the supply fan is running, the temperature control with a water heating coil tries to maintain the temperature setpoint. Frost protection is active any time whereas an electrical heating coil is permanently switched off.

Since ventilation operation is a reaction to A-alarm situation, the defined function will only be stopped after A-alarm is reset and acknowledged.

More/Security

	Security	B	I	Default	Range	Unit
Fire damper settings & status						
* 92	Damper opening time	--	RW	45	0 - 600	s
* 93	Damper closing time	--	RW	15	0 - 600	s
* 94	Fire damper status		R			
X8 input status						
* 236	Emergency off	--	R		Off; On	
* 279	CO detector	--	R		Off; On	
* 280	Smoke detector - extract		R		Off; On	
* 281	Smoke detector - supply	--	R		Off; On	
* 282	Smoke detector - off	--	R		Off; On	
* 283	Smoke detector - max	--	R		Off; On	

*Accessories and/or configuration needed

5.4. ALARM

There are two types of alarms, alarm (A) and maintenance (B).

- A-Alarms are important and urgent situations which stops and locks the ventilation unit immediately. The alarm must be acknowledged. If the reason for the A-Alarm(s) is resolved, the alarm can be reset, and the ventilation unit tries to restart.
- B-Maintenance leave the ventilation unit running, but components or functions of the unit (for example the heat recovery) are switched off and locked. If the reason for these alarms are resolved, they can be acknowledged, and the affected part or function is available again.

On the Air panel, an active alarm indication is shown at the top as a banner. Red banner for A-alarm and orange banner for B-alarm. Pressing the banner will navigate you to the alarm page.

There are different icons depending in which state the alarm is in.
These are also shown in the top of the air panel.

Alarm icon	Maintenance icon	State	Situation
		Alarm, unacknowledged	Problem detected by controller and alarm activated (e.g. new alarm)
		Alarm, acknowledged	Problem still existing, but the alarm has been acknowledged
	Not a state for maintenance	Normal, acknowledged	Problem disappeared/was fixed, alarm is acknowledged, but not reset
		Normal, unacknowledged	Problem disappeared/was fixed, but alarm is not acknowledged

If you navigate to the alarm page (More/Alarm) you will also see if an alarm is active and at which state it is. From here you can acknowledge Alarms (A) and maintenance messages (B) and reset alarms (A).

 Alarm 1004

B4 - Outside air temperature sensor fault

Acknowledge

 Maintenance 1003

B3 - Extract air temperature sensor fault

Acknowledge

 Alarm 1004

B4 - Outside air temperature sensor fault

Reset

 Maintenance 1003

B3 - Extract air temperature sensor fault

Acknowledge

Error codes

Error code	Error source
1000...1999	Hardware related errors
2000...2999	Application related errors
3000...3999	Communication errors

Code #	Type	Name/Text
1001	A	B1 - Supply air temperature sensor fault
1002	B	B6 - Exhaust air temperature sensor fault
1003	B	B3 - Extract air temperature sensor fault
1004	A/B	B4 - Outside air temperature sensor fault
1005	A	B5 - Frost protection temp. Heating coil sensor fault
1006	B	H1 - 0-10 V Humidity sensor fault
1007	A/B	M3 - Rotary heat exchanger motor stuck
1008	A/B	M3 - Rotary heat exchanger belt broken
1009	A	M9 - Fire damper fault
1010	A	TM1 - Supply air fan fault
1011	A	TM2 - Exhaust air fan fault
1012	B	CI 70 - Room temperature sensor on CI 70 fault
1020	B	Time to replace air filter
1032	B	Supply air pressure sensor fault
1033	B	Extract air pressure sensor fault
1039		M3 - Rotary heat exchanger, motor shorted
1040	B	Low battery wireless device

Code #	Type	Name/Text
2001	A	X8 - Emergency off
2002	A	X8 - Smoke detector
2003	A	X8 - CO detector
2004	A	Fire alarm - B1 or B3 over max temperature
2005	B	Supply air temperature outside range
2007	A	B5 - Heating coil frost alarm
2010	A	F10 - electric heater supply air over temperature detection
2024	B	EB1 - Electric Heating, unable to control
2025	B	M3 - Rotary heat exchanger, unable to control

Code #	Type	Name/Text
3003	B	ECUL communication fault, expansion board
3004	A/B	QBM - communication fault, pressure sensor
3006	B	CI 75 - Communication fault, wireless adapter
3007	B	Communication fault, wireless device

5.5. SYSTEM INFO

This page shows system information such as activation key, application version, firmware version and more.

More/System info

	System info	B	I	Default	Range
	General				
237	Flexit serial number	R	R		
238	Activation key	R	R		
239	Firmware	R	R		
240	Application	R	R		
241	Model name	R	R		
248	Model information	R	R		
254	SOC serial number	R	R		
245	Date	R	R		
	Network				
457	Cloud service:	R	R		No access Checking connection... Connection error Product not registered Product connected
252	IP address	R	R		
249	IP default gateway	R	R		
250	IP subnet mask	R	R		
251	UDP Port	R	R		
253	MAC address	R	R		
	Configured functionality				
572	Temperature control ventilation	R	R	1	Supply air control Extract air cascade control
573	Fan control	R	R	3	Air flow Duct pressure Fan speed
574	Dehumidify control	R	R	2	Off On
575	Heating coil	R	R	2	None Electrical Water
576	Cooling coil	R	R	1	None Water DX
577	Fire damper	R	R	1	No Yes

	System info	B	I	Default	Range
	Configured hardware I/O				
579	DI1 Selection (Input)	R	R	5	None Cooker hood Fireplace Fire damper feedback High Stop Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max
580	DI2 Selection (Input)	R	R	2	None Cooker hood Fireplace Fire damper feedback High Stop Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max
581	X8 Selection (Input)	R	R	11	None Home Away Emergency off CO detector Smoke detector - extract Smoke detector - supply Smoke detector - off Smoke detector - max Fire damper feedback Cooker hood Fireplace High Stop
582	Q1 Selection (Output)	R	R	2	None Outside air damper Fire damper Common alarm and maintenance indication Alarm indication Maintenance indication Operation indication #Bypass damper Cooling pump
583	Q2 Selection (Output)	R	R	4	None Outside air damper Fire damper Common alarm and maintenance indication Alarm indication Maintenance indication Operation indication #Bypass damper Cooling pump

	System info	B	I	Default	Range
584	Q3 Selection (Output)	R	R	1	None Outside air damper Fire damper Common alarm and maintenance indication Alarm indication Maintenance indication Operation indication #Bypass damper Cooling pump
585	Y1 Selection (Output)	R	R	2	None Electrical heater Pump water heater
586	X3 Selection (Input)	R	R	4	None 0-10V Humidity sensor 0-10V CO2 sensor B3/H1 sensor
587	X4 Selection (Input)	R	R	2	None Thermostat overheating Return water temperature
588	X7 Selection (Output)	R	R	1	None 0-10V Water heater valve N/A 0-10V Water cooling valve
589	CI75 - Wireless adapter	R	R	1	None Connected

5.6. OPERATING HOURS

Various time counters are running automatically on the background depending on which operating mode is active.

If 240 minutes are reached 4 hours are added to counter.

More/Operating hours

	Operating hours	B	I	Default	Range	Unit
313	Total	R	R			h
Ventilation						
314	Stop	R	R			h
315	Away	R	R			h
316	Home	R	R			h
317	High	R	R			h
318	Fireplace	R	R			h
319	Cooker hood	R	R			h
320	Heat exchanger	R	R			h
321	Electrical battery	R	R			h
* 322	Water battery	R	R			h

*Accessories and/or configuration needed

5.7. SERVICE

On this page you can put the product in service mode. If you need to change filter or any other maintenance, put the product in service mode before turning off the power to the product.

When the product is put in service mode it makes a controlled shutdown. The shutdown time depends on the operating mode.

5.8. ABOUT FLEXIT GO

This page shows information such as app version and used open source libraries and also has a link to the terms and conditions for the Flexit GO platform.

5.9. CHANGE PRODUCT

If you have access to more than one Flexit Nordic or EcoNordic product on your cloud account this page lets you change access between your products. You can only access products that are online.

5.10. SIGN OUT

This page gets you to the start page and also lets you sign out from your cloud account if you are logged on through that.

6. Troubleshooting

General information:

For each alarm code a scenario containing one or more steps are described. When you are using the manual start with:

Step 1, do necessary actions and check if the problem is solved.

In case not continue to:

Step 2, do necessary actions and check if the problem is solved.

In case not continue following the listed steps in the same way as described until the problem is solved.

Code #	Text displayed	Explanation	Product owner What to do?
1001	B1 - Supply air temperature sensor fault	The temperature sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1002	B6 - Exhaust air temperature sensor fault	The temperature sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1003	B3 - Extract air temperature sensor fault	The temperature sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1004	B4 - Outside air temperature sensor fault	The temperature sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1005	B5 - Frost protection temp. Heating coil sensor fault	The temperature sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1006	H1 - Humidity sensor fault	The humidity sensor displays a value higher or lower than the specified operating range, generating an alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1007	M3 - Rotary heat exchanger motor stuck	The system indicates that the rotary heat exchanger is running too heavy or is completely stuck. As a safety measure, the rotor motor is stopped pending check/reset of the alarm.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. Switch off the supply voltage to the unit by pulling out the mains plug. Look for a possible reason why the rotor runs heavy/gets stuck. If ice formation is the cause, the module must be removed (see user manual) to allow the ice to melt. Also remove any moisture/ice that remains in the unit. In case of recurring problems with de-icing, the commissioned air flows should be reviewed to ensure correct operation. Consider enabling the defrost function. 2. In case this action doesn't solve your problem, please contact your service partner.

Code #	Text displayed	Explanation	Product owner What to do?
1008	M3 - Rotary heat exchanger belt broken	The alarm indicates temperature differences that are outside of expected values, which the system interprets as if the rotary heat exchanger is not rotating.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. Disconnect the operating voltage to the unit by pulling out the mains plug connector. Check for possible reason why the rotor is not turning. Ensure that the unit is operated on commissioned air flows. In the event that the rotor belt is intact and the rotor appears to be rotating as it should: Check for probable cause why the temperature difference between supply air and exhaust air has decreased (extremely low air flows can trigger this type of alarm). Connect the mains plug connector again and wait 3 min for the unit to restart. In case neither action solves your problem, please contact your service partner.
1010	TM1 - Supply air fan fault	Inside the fan motor there is a tachogenerator which provides feedback on how many revolutions the fan is performing at the moment. The alarm message is indicating that the tachogenerator signal is missing.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. Switch off the supply voltage to the unit by pulling out the mains plug. Check that the connector to the fan motor that is causing the alarm is properly connected (see user manual regarding cleaning fans). Check for possible cause of fan motor not rotating/heavy/get stuck. Reconnect the mains plug and wait 3 minutes for the device to boot. 3. In case this action doesn't solve your problem, please contact your service partner.
1011	TM2 - Exhaust air fan fault	Inside the fan motor there is a tachogenerator which provides feedback on how many revolutions the fan is performing at the moment. The alarm message is indicating that the tachogenerator signal is missing.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. Switch off the supply voltage to the unit by pulling out the mains plug. Check that the connector to the fan motor that is causing the alarm is properly connected (see user manual regarding cleaning fans). Check for possible cause of fan motor not rotating/heavy/get stuck. Reconnect the mains plug and wait 3 minutes for the device to boot. 3. In case this action doesn't solve your problem, please contact your service partner.
1020	Time to replace air filters	A timer is showing that it's time to replace the air filters in the unit.	1. Order Flexit original air filters. 2. Replace the filters by following the procedure described in the user manual. 3. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using.
2010	F10 - Electric heater supply air over temperature detection	The overheating thermostat for the electrical heater in the ventilation unit has created an alarm.	1. Reset the thermostat according to the user manual. 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
1009	M9 - Fire damper fault	In this case a fire damper is installed in the system. (accessory) The alarm is indicating that the fire damper is not working/is not properly configured.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. In case this action doesn't solve your problem, please contact your service partner.
1032	Supply air duct pressure sensor fault	An external duct pressure sensor is installed in the system. (accessory) The system is not detecting a valid signal from the pressure sensor.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1033	Extract air duct pressure sensor fault	An external duct pressure sensor is installed in the system. (accessory) The system is not detecting a valid signal from the pressure sensor.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
1039	M3 - Rotary heat exchanger, motor shorted	The control of the rotary heat exchanger detects a too high current value and can therefore not work.	1. Disconnect the operating voltage to the unit by pulling out the mains plug connector. Wait 10 s. 2. Connect the mains plug connector again and wait 3 min for the unit to restart. 3. In case this action doesn't solve your problem, please contact your service partner.

Code #	Text displayed	Explanation	Product owner What to do?
1040	Low battery wireless device	There are one or several wireless devices connected to the system, indicating that the battery level in the sensor is low.	1. Push the button on each connected wireless sensor. If the device has a low battery level it will indicate with a red blinking LED. 2. Replace the battery in the device/devices with a low battery level. 3. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 4. In case this action doesn't solve your problem, please contact your service partner.
2001	X8 - Emergency off	If digital input X8 is configured as emergency off function an installed actuator (push button or similar) has activated the alarm. Please pay attention to that the external device is supposed to create this condition in case it is activated, just follow the instructions on how to go back to normal operation.	1. Reset the actuator. (push button or similar) 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
2002	X8 - Smoke detector	If digital input X8 is configured for smoke detector function an installed smoke detector has activated the alarm. Please pay attention to that the external device is supposed to create this condition in case it is activated, just follow the instructions on how to go back to normal operation.	1. Reset the smoke detector following the instruction for that specific device. 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
2003	X8 - CO detector	If digital input X8 is configured for CO detector function an installed CO detector has activated the alarm. Please pay attention to that the external device is supposed to create this condition in case it is activated, just follow the instructions on how to go back to normal operation.	1. Reset the CO detector following the instruction for that specific device. 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
2004	Fire alarm - B1 or B3 over max temperature	The temperature level surrounding the temperature sensor is unnaturally high.	1. Check the area surrounding the temperature sensor and secure that the area is not blocked by some foreign object. 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
2005	Supply air temperature min alarm	The temperature level surrounding the temperature sensor is unnaturally low.	Check for possible reason why supply air temperature is extremely low. At low outside temperatures together with functions that increase the supply air/imbalance (e.g. cooker hood) there may be a need for post-heating to achieve an acceptable supply air temperature. Clogged exhaust air filter or low exhaust air flow/high supply air flow increases the risk of the alarm occurring. 1. Consider activating the post-heat element using the procedure described for the Flexit GO app or control panel, depending on which method you are using. 2. In case of recurring problem behaviour, the commissioned air flows shall be reviewed to ensure correct function. 3. If no action solves your problem, contact your service partner.
2007	B5 - Heating coil frost alarm	The return water sensor from the water based heater is indicating a low temperature and the unit is stopped in order to prevent freezing of the water based heater.	1. Check that the source providing heat to the water based heater is producing hot water. 2. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 3. In case this action doesn't solve your problem, please contact your service partner.
2024	EB1 - Electric Heating, unable to control	The electrical heater cannot be operated according to the control logic.	Contact your service partner.

Code #	Text displayed	Explanation	Product owner What to do?
2025	M3 - Rotary heat exchanger, unable to control	The rotary heat exchanger cannot be operated according to the control logic.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. Disconnect the operating voltage to the unit by pulling out the mains plug connector and wait for 10 s. 3. Connect the mains plug connector again and wait 3 min for the unit to restart. 4. Ensure that the unit runs on commissioned air flows. 5. In case of recurring alarms: Check for probable cause why the temperature difference between supply air and exhaust air is lower than expected (extremely low air flows can trigger this type of alarm). 6. In case neither action solves your problem, please contact your service partner.
3003	ECUL communication fault, expansion board	This unit is an accessory. The alarm code is showing that the communication between the ventilation unit and the accessory is poor or missing.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
3004	QBM - communication fault, pressure sensor	This unit is an accessory. The alarm code is showing that the communication between the ventilation unit and the accessory is poor or missing.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
3006	CI75 - Communication fault, wireless adapter	This unit is an accessory. The alarm code is showing that the communication between the ventilation unit and the accessory is poor or missing.	1. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 2. In case this action doesn't solve your problem, please contact your service partner.
3007	Communication fault, wireless device	This unit is an accessory. The alarm code is indicating that the wireless transmission between the CI 75 - Wireless transmitter and the accessory is poor.	1. Verify the placement of the CI-75 wireless transmitter. Ensure that it is not positioned in such a way as to block/ significantly degrade the signal to the wireless accessories. 2. Try moving the transmitter to get better communication. 3. Try to move the accessory closer to the transmitter in order to get better communication. 4. Try to reset the alarm following the procedure described for the Flexit GO app or control panel, dependant on which device you are using. 5. In case this action doesn't solve your problem, please contact your service partner.



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