

110737E-11  
2016-12

# Spirit UNI 3



## **E** User Manual Air Handling Unit & Automatic Control

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*Our products are subject to continuous development and we therefore reserve the right to make changes.  
We also disclaim liability for any printing errors that may occur.*



### Important Safety Instructions:

It is the installer's responsibility to carry out a full safety and function assessment of the appliance.

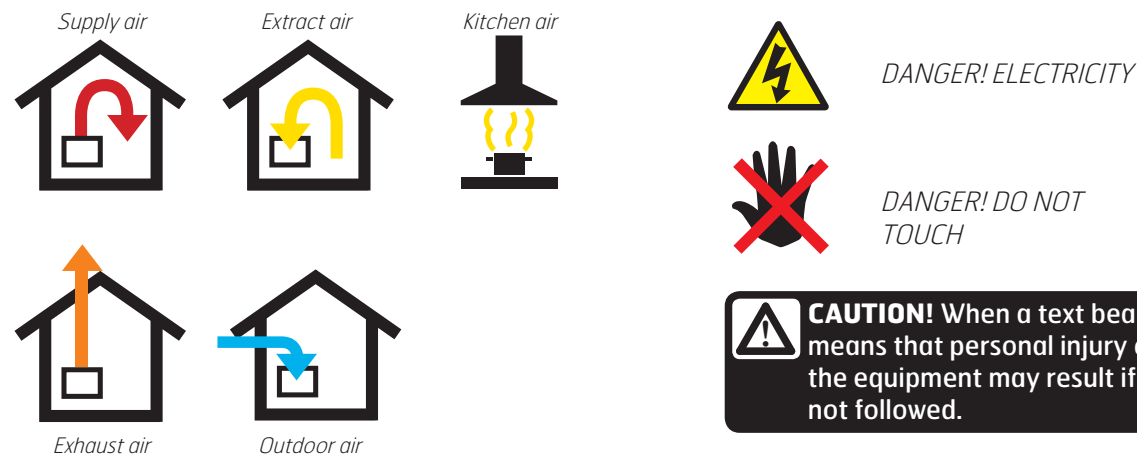
To reduce the risk of fire, electric shock or injury, read all the safety instructions and warning texts before using the unit.

- This unit is only designed for ventilation air in housings or commercial buildings
- It must not be used to extract combustible or flammable gases
- Disconnect the mains plug before commencing any service and maintenance work
- Before opening the door: switch off the heat, let the fans continue for three minutes to remove hot air, disconnect power from the unit and wait 2 minutes before opening the doors.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person, in order to avoid hazard.
- The unit contains heating elements that must not be touched when they are hot
- The unit must not be operated without the filters in place
- Do not cook any combustible substances under the kitchen hood, if this is installed
- Do not leave a saucepan or frying pan containing oil or grease unsupervised when using a kitchen hood
- For the warranty to apply, the user manual instructions must be followed.


To maintain a good indoor climate, comply with regulations. To avoid condensation damage, the unit must never be stopped apart from during service/maintenance or in connection with an accident.


## Symbols Used

These products bear a number of symbols used for labelling the actual product and in installation and user documentation.



EXAMPLE OF NIPPLE LOCATION  
(shown as a right-hand model)

 **CAUTION!** When a text bears this symbol, it means that personal injury or serious damage to the equipment may result if the instructions are not followed.

 **NB!** When a text bears this symbol, damage to equipment or poor efficiency may be the consequence of not following the instructions.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Note that the product is not intended for use by children.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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# 1 Functional Description Balanced Ventilation

## 1.1 Fans (M1, M2)

The fans ensure that air enters and leaves the building. These can be individually adjusted for optimal operation. The unit can be regulated at 3 different speeds using the operating panel; Min, Normal and Max. See section 5.1 for more information.

## 1.2 Filter (F11, F12)

Filters with a high filter grade (F7) are used as standard both for supply air and extract air, so that the air which enters the building is clean. The filters also ensure that the unit stays clean.

## 1.3 Heat recovery system (HR-R)

The air goes through the rotary wheel heat recovery system. The rotor functions as a heat storage. The heat from the extract air heats up one half of the rotor. When the heated part comes over to the supply air side, the heat is transferred to the supply air.

## 1.4 Heating element (EB1) (for UNI 3 E)

If the heat recovery system cannot raise the temperature enough, an electrical heating element will raise the temperature to a set level. The heating element is protected against overheating by the thermostat (F20), which switches off at 60°C. As an additional safety measure, the F10 thermostat switches off at 85°C. The F10 thermostat must be reset manually by pressing the reset button (see Fig. 2).

## 1.5 Temperature sensors (B1, B4)

The unit has two temperature sensors as standard. Supply air sensor B1 registers the temperature of the heating battery. The outdoor air sensor (B4) registers the temperature of the outdoor air.

Fig. 1

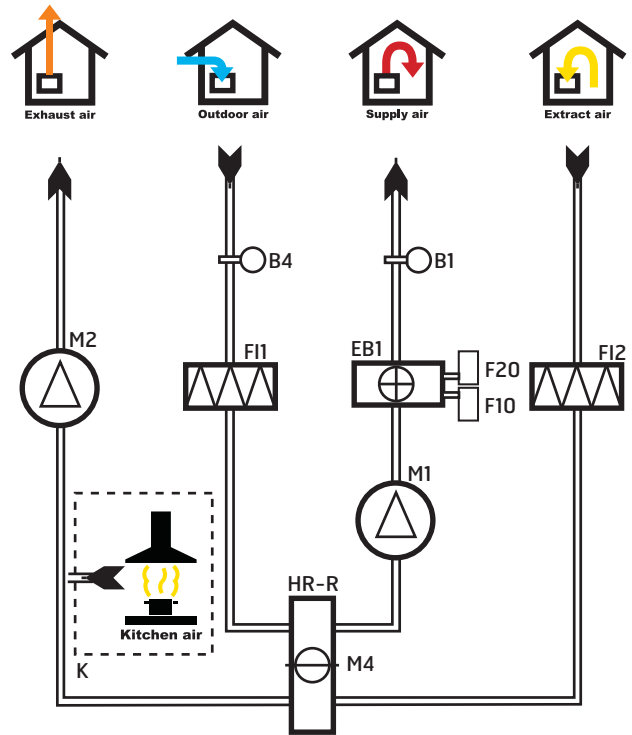
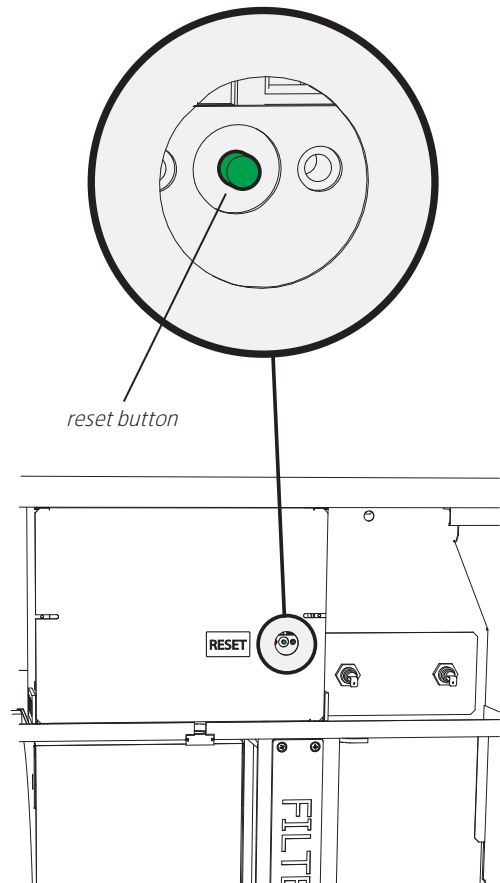


Fig. 2



## 2 Operation of Handheld Terminal

### 2.1 Horizontally Wall-Mounted Unit

1. The unit is opened by first unscrewing the screw in the top (see Fig. 3).
2. Pull the handles out, and rotate to the side (see Fig. 4).
3. The door can now be opened to hang open at 180° (see Fig. 5), or be hooked off (see point 2.4).

Fig. 3

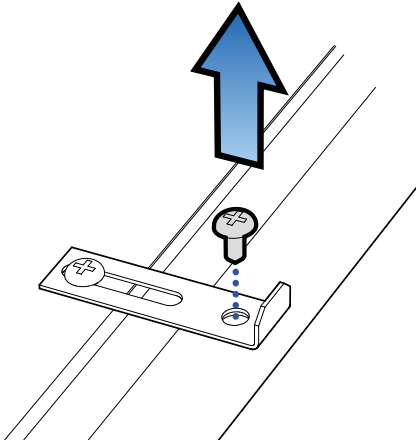


Fig. 4

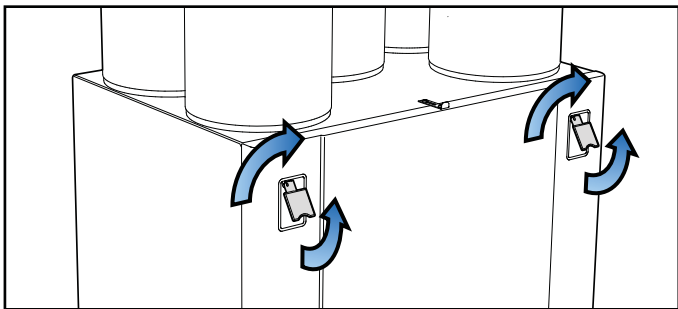
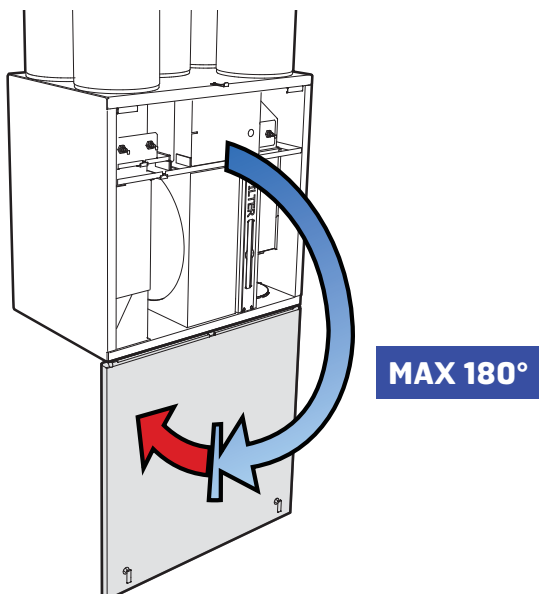


Fig. 5



### 2.2 Sideways Wall-Mounted Unit

**⚠ NB!** A sideways mounted unit must have a strap and end studs installed, so that the door does not become damaged or fall off when opened.

1. Ensure that the end studs and strap are installed (Fig. 6 and Fig. 7).
2. Unscrew the top screw (see Fig. 3).
3. Pull the handles out, and rotate to the side (see Fig. 4).
4. The door can now be opened, but will have a maximum swing of 105° (see Fig. 7).

Fig. 6

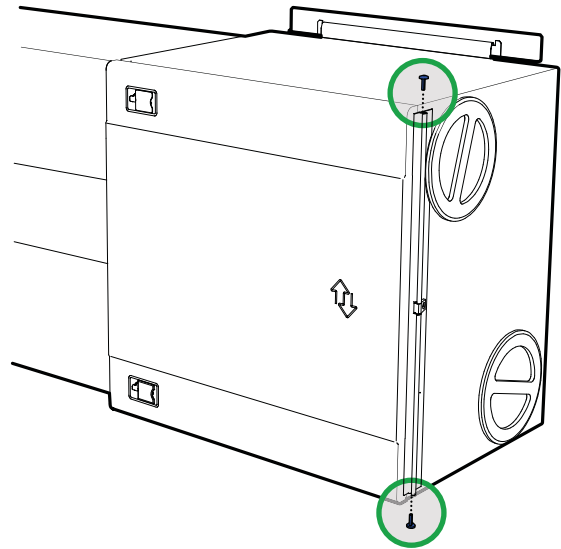
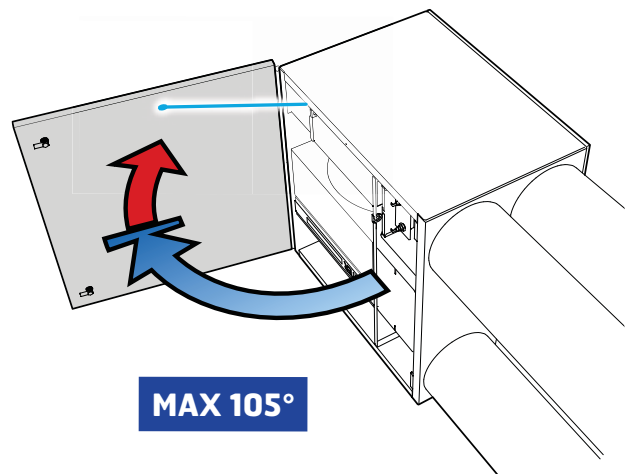


Fig. 7



### 2.3 Horizontal Unit

1. Ensure that the end studs and strap are installed (see Fig. 6 and 7).
2. Unscrew the top screw (see Fig. 3).
3. Pull the handles out, and rotate to the side (see Fig. 4).
4. The door can now be opened, but will have a maximum swing of 105° (see Fig. 8).

Fig. 8

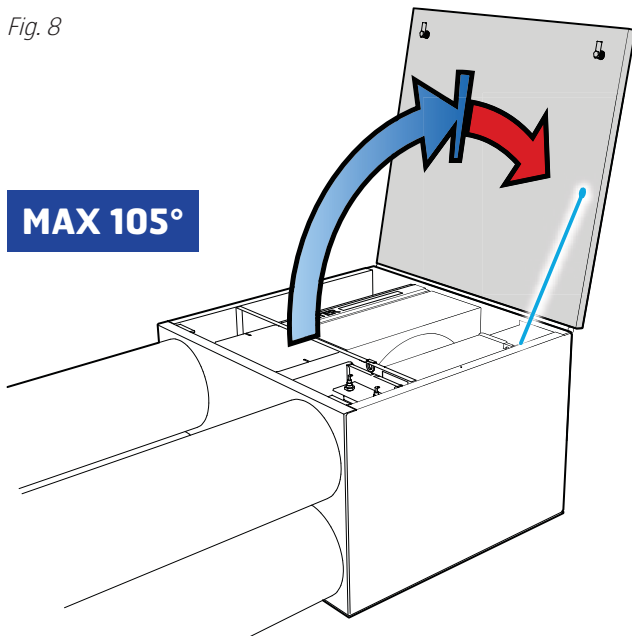
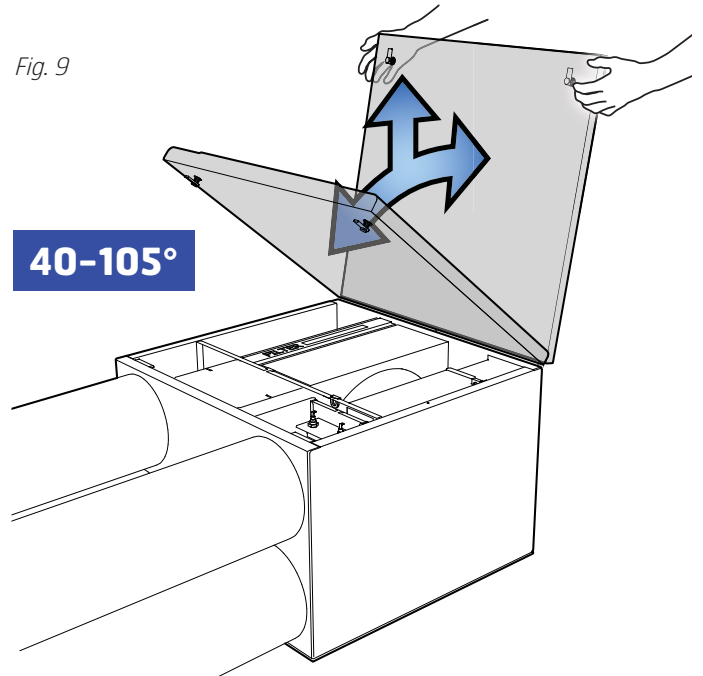


Fig. 9



### 2.4 For Necessary Removal of Door

The door can be removed when it is open between 40° and 105° (see Fig. 9). If there is limited space in front of the unit, the lock screw under the door can be temporarily unscrewed (see Fig. 10), as well as the end studs if these are installed (see Fig. 6). Then the door can be pushed out sideways (see Fig. 11).

**CAUTION!** The door weighs 10kg, take care when removing it.

Fig. 10

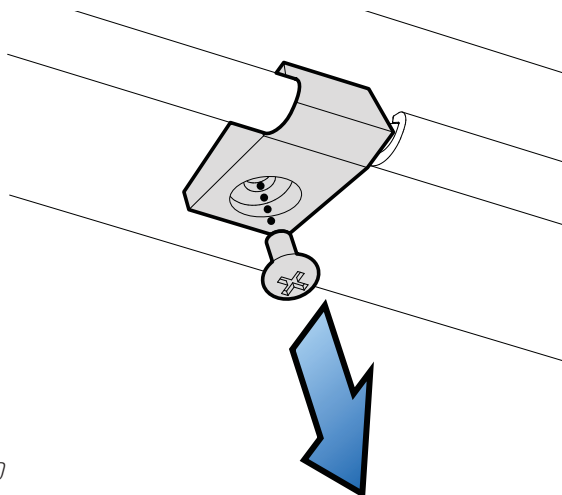
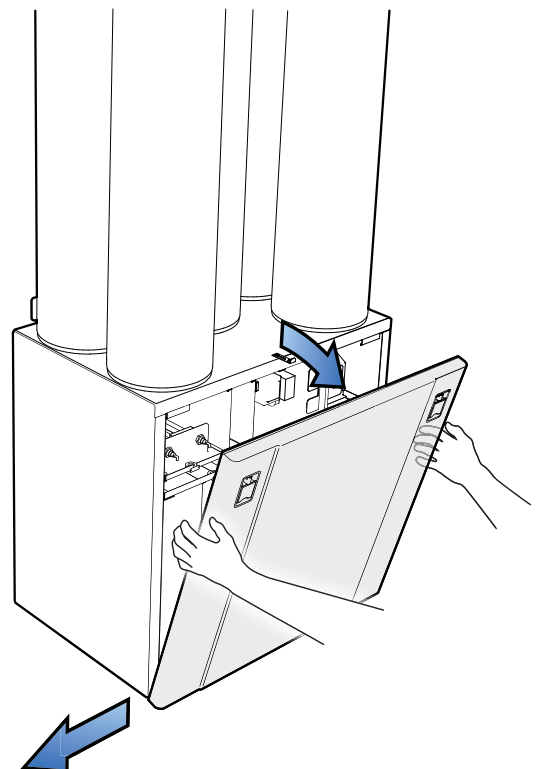


Fig. 11



### 3 Cleaning and Maintenance

**CAUTION!** Before opening the door: switch off the heat, let the fans continue for three minutes to remove hot air, disconnect power from the unit and wait 2 minutes before opening the doors.

#### 3.1 Fans

The fans must be cleaned a minimum of once a year. Clean the fan blades with detergent (for example methylated spirit) on a cloth and compressed air if possible. NB! Do not use water.

To take out the fans:

1. Loosen the screw on the fan door (see Fig. 12).
2. Pull out the electric quick-release contact for the motor (see Fig. 13).
3. The fan can then be carefully pulled out of the unit (see Fig. 14).
4. Loosen the screws and remove the fan cover to access the fan blades.

Fig. 12

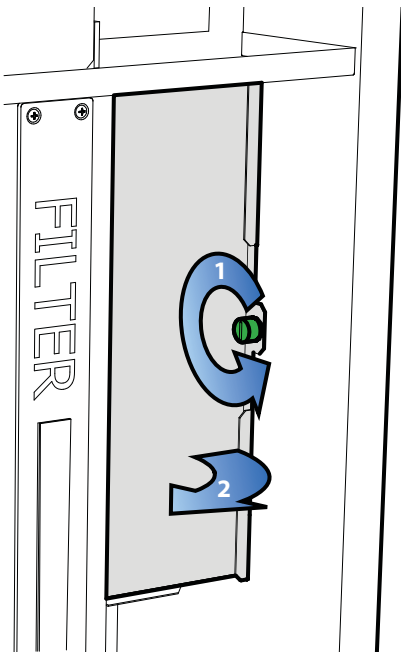


Fig. 13

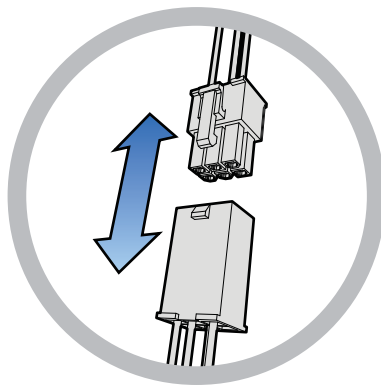
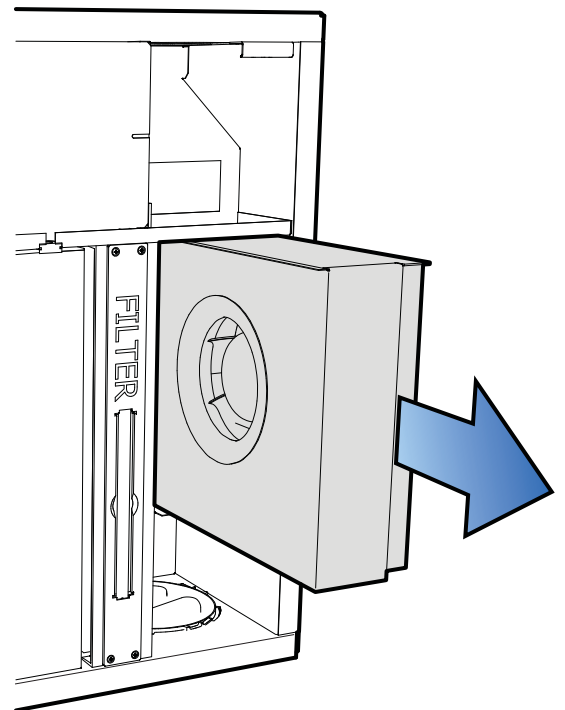
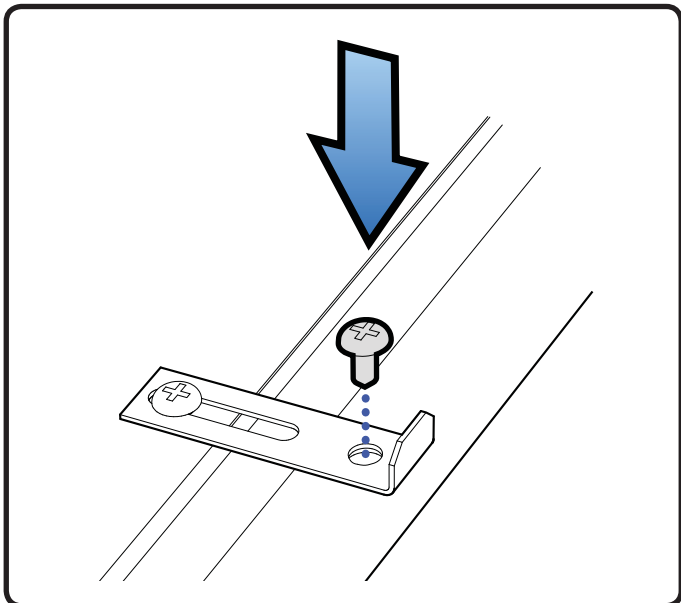


Fig. 14





**CAUTION!** For safety reasons, always mount the door screw when you're finished maintaining the ventilation unit!





### 3.2 Filter

The filters have a limited lifetime, and to preserve a healthy indoor air quality it is important to change them when they are dirty.

How often the filters need to be changed depends on the degree of contamination in the air where they are installed. In general, the filters need to be changed a minimum of once a year, preferably in the autumn (after the pollen season). In areas with a lot of dust and contamination, the filters should be changed in the spring and autumn.

Dirty filters can, among other things, lead to:

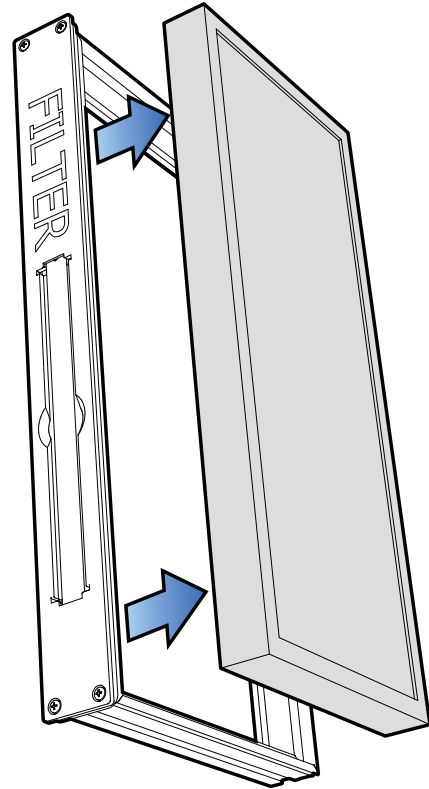
- Reduced performance of the unit
- The unit becoming dirty
- Humidity damage in the bathroom
- Reduced indoor air quality

A filter subscription is recommended to ensure full benefit from the system. The article number for a replacement filter set is 110716.

To take out the filters:

1. Grip the handle and pull the filter cassette out (see Fig.15).
2. Push the filter out of the cassette (see Fig.16).
3. Insert a new filter.

Fig. 16



**NB!** Ensure that the filter is not damaged during installation. Use the filter's outer edge when you push it in. A damaged filter reduces the unit's effect and the air's purity.



**NB!** When inserting the filter cartridge into its slot, push it properly to prevent air leakage.

When changing the filter, check that the whole unit is working normally. Use the following checklist:

- Check that the rotor is rotating (see Fig. 17).
- The unit has filters both for outdoor air and extract air.
- Check that the fans are clean.

Fig. 15

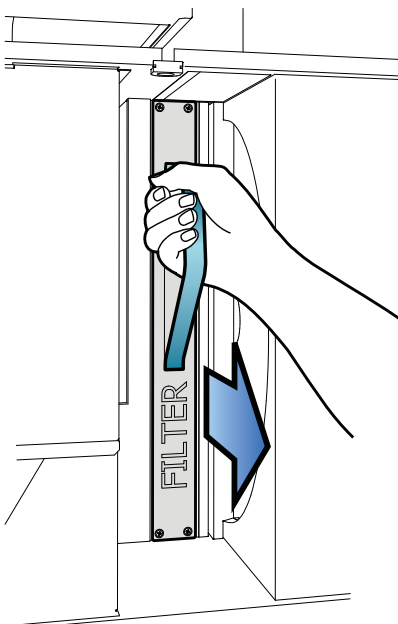
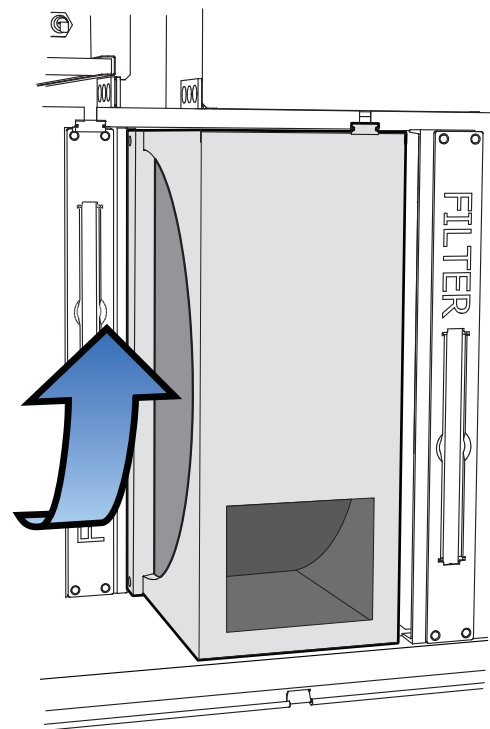


Fig. 17



### 3.3 Replacing the brush strips

The brush strips become worn over time. If they do not sit tightly against the rotary wheel-type heat exchanger, it can be necessary to replace them (art.no.110894).

Alternatively, they can be moved closer to the rotor, where the aluminium profile they are mounted in has two grooves.

Do the following:

1. Pull the rotor a little way out (see Fig. 18).
2. Unplug the quick-release contact fastened to the rotor (see Fig. 19).
3. Pull the rotor out completely.
4. Remove the screw in the centre of the aluminium profile and pull the profile out (see Fig.20).
5. Pull the brush strips out of the groove. Move them up from level 1 to level 2 (see Fig. 21), or replace them with new ones if they are completely worn out.

Fig. 18



Fig. 20

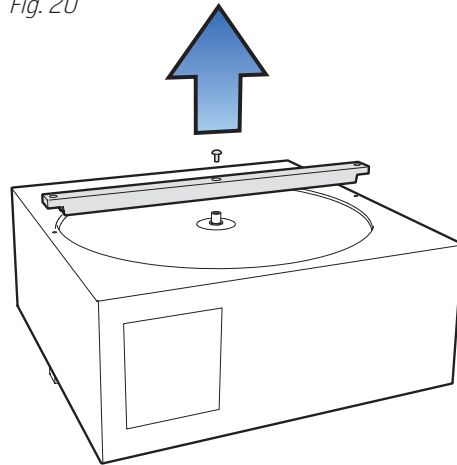


Fig. 19

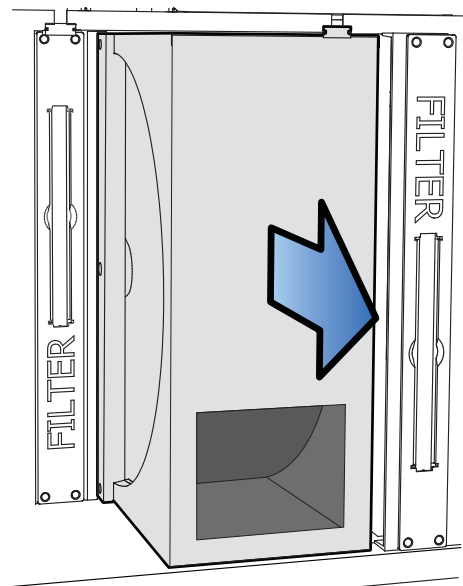
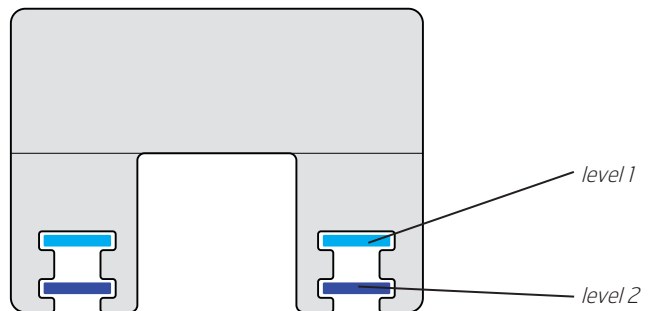


Fig. 21



### 3.4 Rotor

As the unit has high impermeability, filters installed, it is not usually necessary to clean the rotor. If, for various reasons, it should still be necessary, dust can be removed with a soft brush.

Further cleaning is possible if you remove the rotor, spray it with fat-soluble detergent and then blow it clean from the opposite side. Distance approximately 60 mm and max. pressure 8 bar.

Ensure that the motor is not exposed to water during cleaning. Ensure that all seals around the rotor are intact and tight. Ensure that there is no damage to the rotor belt, and that the rotor rotates freely.

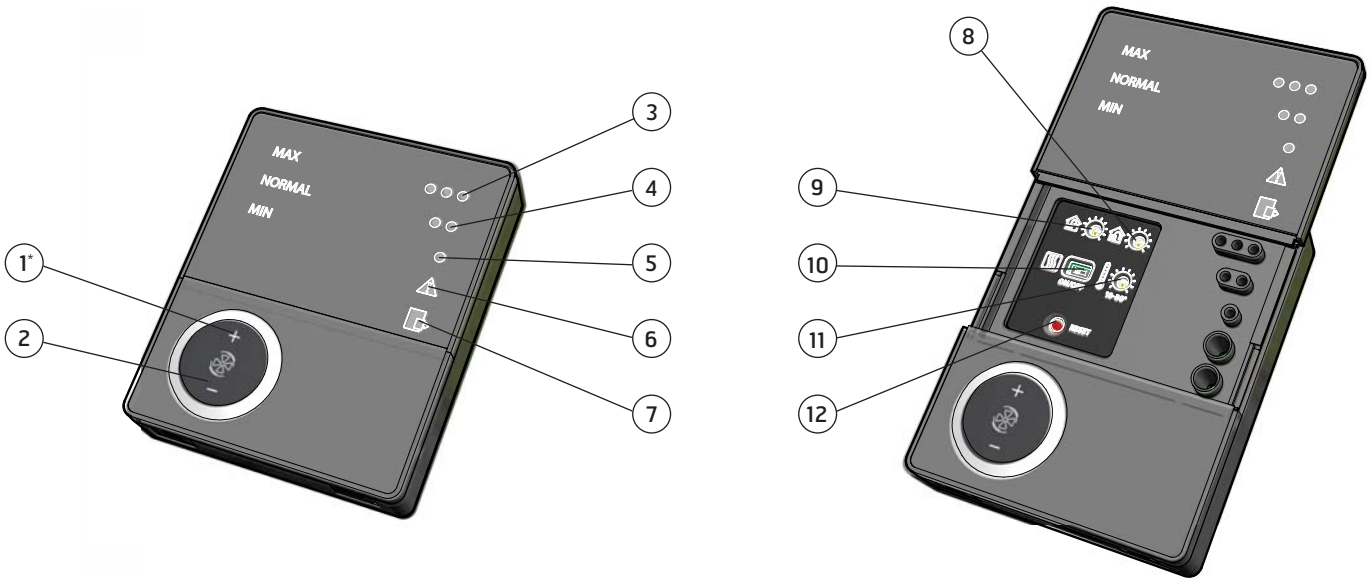
### 3.5 External Cleaning

Many kitchen surface cleaners contain chemicals that may damage the product's plastic components. Therefore use a soft cloth moistened with warm water and a neutral detergent to clean the outside of the product.



**NB!** Do not use abrasive cleaners or scouring powder, as such products can damage the surfaces. Do not use cleaners containing citric acids or ammonia. Products that give stainless steel an anti-fingerprint coating must not be used either.

## 4 CI60 control unit overview



No.	Description
1*	Switch for increased ventilation
2	Switch for decreased ventilation
3	Indication of <b>MAX</b> speed
4	Indication of <b>NORMAL</b> speed
5	Indication of <b>MIN</b> speed
6	Indication of <b>ALARM</b>
7	Indication of <b>FILTER REPLACEMENT</b>

No.	Description
8	Potentiometer for adjusting extract air at <b>NORMAL</b> speed
9	Potentiometer for adjusting supply air at <b>NORMAL</b> speed
10	Switch for additional heating <b>OFF/ON</b>
11	Potentiometer for adjusting supply air temperature
12	Switch to reset the alarm

Nos. 8, 9 and 10 are used to adjust the unit before it is used for the first time.

\*The figures are used as references in subsequent descriptions

## 5 CI60 in use

### 5.1 General

The control unit consists of a touch panel with pushbuttons, LEDs for indication and adjustment potentiometers and switches for adjusting the ventilation unit. The control unit communicates with the ventilation unit via a low-voltage cable.

### 5.2 Increasing/reducing air supply

Use switches 1 and 2 to increase and reduce the fan speed and thus the air flow. Different speeds depending on the operating situation.

<b>MIN</b>	Do not use during first year of operation, or when the building is in use.
<b>NORMAL</b>	Used under normal conditions. In this setting, the air supply must be adjusted according to current regulations.
<b>MAX</b>	Used if there is a need for increased air supply on account of increased occupancy or a higher humidity level, for example during showering or when clothes are being dried. This setting is usually used for limited periods of time.

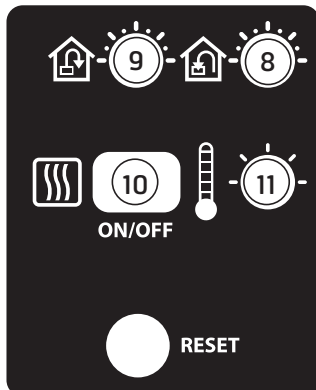
The different speeds are indicated with LEDs 3, 4 and 5.

### 5.3 Adjusting the air supply

At NORMAL speed level, the air flow must be adjusted according to project data. Potentiometer 9 is used for the supply air level and potentiometer 8 for the extract air level. The adjustment range is 20-100% of the maximum level according to the scale of the potentiometer.

Factory settings:

<b>MIN</b>	50% (fixed)
<b>NORMAL</b>	75% (variable)
<b>MAX</b>	100% (fixed)

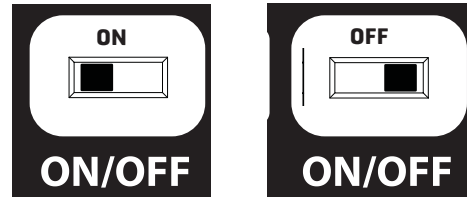


### 5.4 Temperature adjustment

The temperature required in the supply air can be set with potentiometer 11. The adjustment range is 10 - 30 °C. Using the factory settings is recommended.

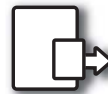
If necessary, the ventilation unit's heating can also be switched ON/OFF with switch 10. In this case only the rotating heat exchanger is used as a source of heat. It is best to leave it in ON position, as the unit will then respond automatically when there is a need for additional heating.

ITEM 10



### 5.5 Filter replacement

Every six months, LED 6 lights up to remind you that it is time to replace the air filters in the unit. See section 3 for more information on filter replacement.



After the activity has been carried out, the indicator must be reset. See more under the Reset section.

### 5.6 Alarm

If anything unforeseen occurs with the ventilation unit, indicator 6 lights up. The signal given by the indicator depends on the reason for the indication.



A permanent light indicates:

- Fault return water detector (B5)
- Heat recovery fault (B)

A permanent light with indicator 5 (MIN speed) flashing indicates:

- Fault supply air detector (B1)
- Fault extract air detector (B3)
- Fault outdoor air detector (B4)

A flashing light indicates:

- Overheating thermostat fault (applies only to electric heating)
- Fault in external fire/smoke detector (accessory)
- Heat recovery fault (A)
- Additional heating fault (applies only if the unit has a water battery)

### 5.7 Reset

After the filter has been replaced or the cause of the alarm repaired, the alarm must be reset. This is done by pressing switch 12.

If the indicator goes out, the action has been carried out correctly. If the indicator remains on, the fault has not been repaired correctly.

**NB!** If thermostat F10 trips, the unit will have to be opened up and physically reset **before** resetting on the panel. If the alarm trips repeatedly, contact the service company or distributor.

## 6 CI600 control unit overview



No.	Description
1*	<b>UP/INCREASE</b> switch
2	<b>BACK/CANCEL/NO</b> switch
3	<b>DOWN/DECREASE</b> switch
4	<b>OK/YES</b> switch
5	<b>HELP</b> switch
6	Display
7	Indication of <b>OPERATION/OK</b> - Green light
8	Indication of <b>FILTER REPLACEMENT</b> - Yellow light
9	Indication of <b>ALARM</b> - Red light

*\*The figures are used as references in subsequent descriptions*

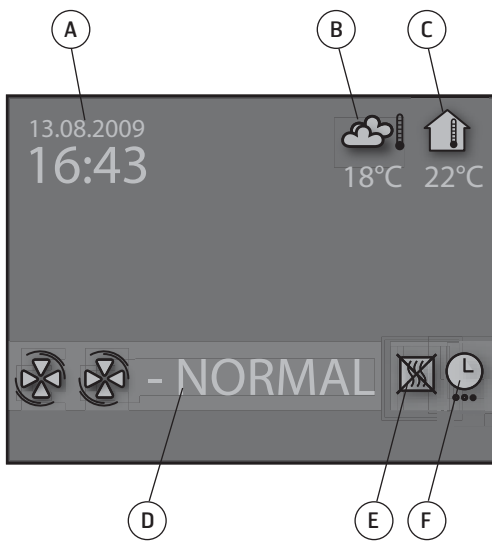
## 7 CI600 in use

### 7.1 General

The control unit consists of a colour display, a touch panel and indicators (LEDs). The unit communicates with the ventilation unit via a low-voltage cable.

### 7.2 Idle mode

If the touch panel is not used, the control unit will, after a certain period of time, enter idle mode, in which operating information will be displayed.

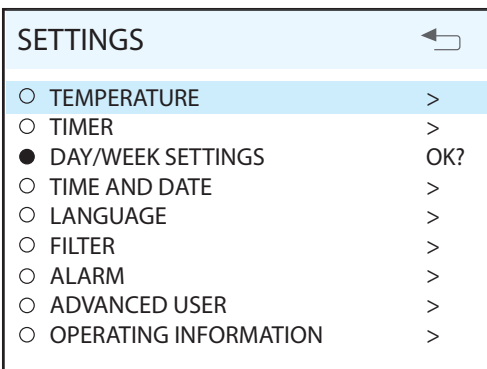


- A. Time and date
- B. Outdoor air temperature
- C. Room temperature
- D. Current speed
- E. Additional heating activated/deactivated
- F. Daily/weekly timer active

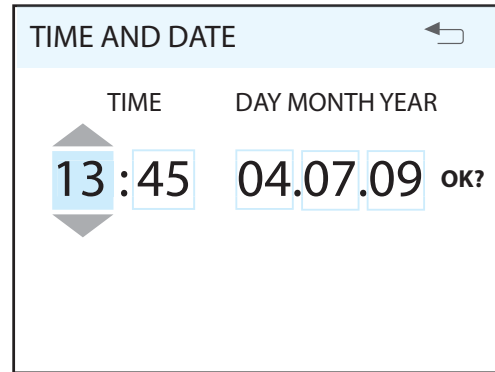
### 7.3 Menu navigation

Buttons 1 and 3 are used to navigate through the menu lines. The cursor is illustrated by the line being light blue. If it is possible to make a selection on the current menu line, this is displayed with OK? to the right of the line. A selection is confirmed by pressing button 4.

If a menu line contains submenus, this is illustrated with a '>' sign at the end of the line.



If you select a function that has numerical values, the current value is displayed with a light blue cursor. The value is changed with buttons 1 and 3 and is then confirmed by pressing button 4.



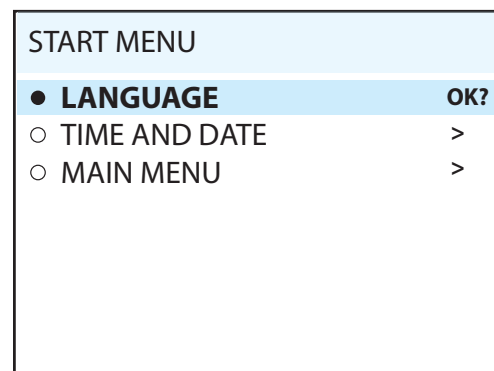
If several values can be changed, the cursor jumps to the right when a selection is confirmed with button 4. The procedure is repeated until all values have been changed to the desired values.

If you want to cancel a function or return to the previous menu screen, use button 2.

Button 5 activates a help text that briefly describes the current menu screen.

### 7.4 Start menu

When the system is started, a start menu is opened.



The basic language and date settings are set in this menu. When this activity has been carried out, you choose to go to the main menu.

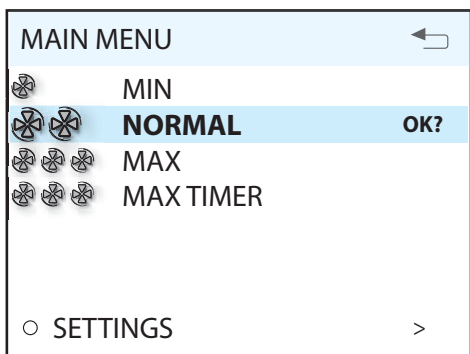
### 7.5 Operating status

In normal operation without problems, the green LED 7 lights up to confirm that everything is working normally. How any problems affect the system is described in subsequent sections.

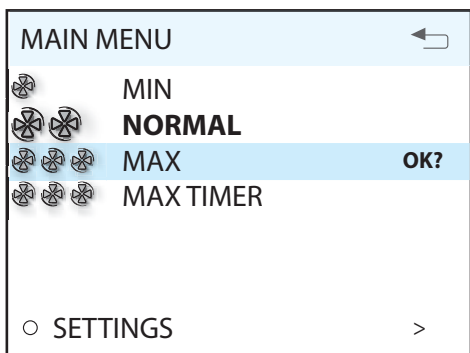
## 8 CI600 main menu

### 8.1 Fan speeds

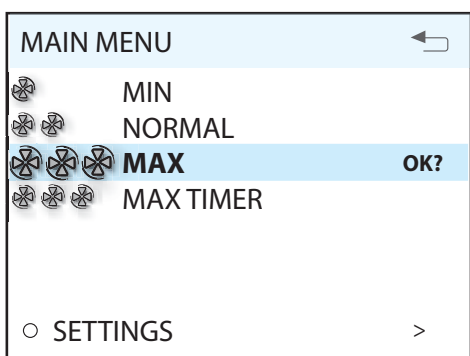
The main menu contains various choices. Most concern fan speeds. The speed selected is indicated with large fan symbols and bold font.



To change the speed, move the cursor with buttons 1 and 3.



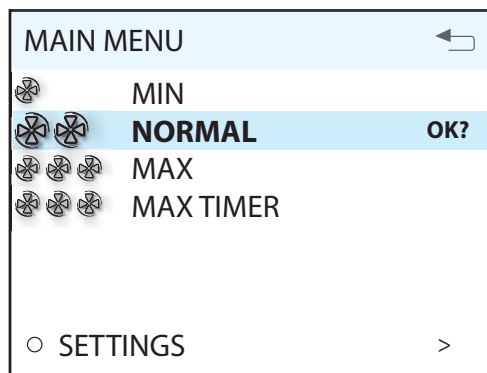
Then confirm your selection with button 4 and the speed selected is highlighted with large fan symbols and bold font.



MIN	Must not be used when the home is in use. Must not be used in the first two heating seasons.
NORMAL	Used under normal conditions. On this setting the air supply must be adjusted according to current regulations.
MAX	Used if there is a need for increased air supply on account of higher occupancy or a raised humidity level, for example during showering or when clothes are being dried. This setting is normally used for limited periods.

### 8.2 Max. timer

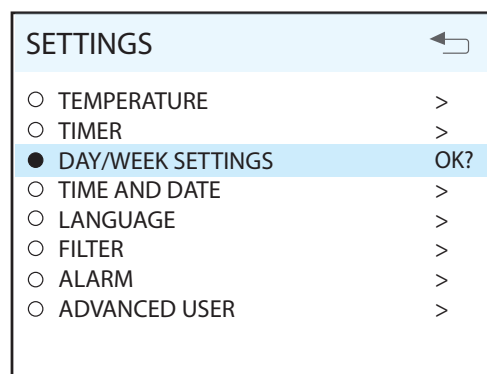
This menu item activates a function that increases the speed to MAX for a limited period of time before subsequently returning to the speed selected previously. The period of time can be adjusted under the SETTINGS menu item.



When the function is active, the time is counted down on the display. If you select TIMER OFF, the function will be cancelled and the speed will return to the previous selection.

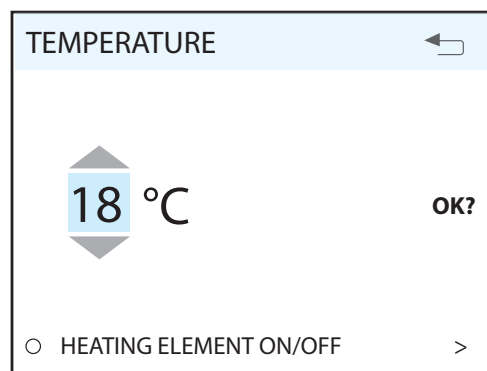
### 8.3 Settings

Under the SETTINGS menu item, you can adapt the system as you want.



### 8.4 Temperature

Here you set the temperature for the air that enters the building.





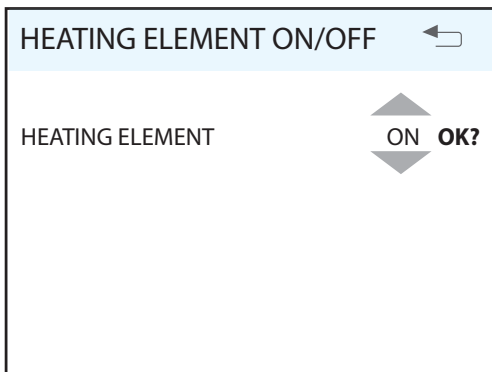
We recommend adjusting the temperature to max 18° so that the air is mixed optimally with the air already in the building.

In the HEATING ELEMENT OFF/ON menu item, the additional heating in the ventilation unit can be switched off. In such case, only the rotating heat exchanger is used as a source of heat.

If necessary, the ventilation unit's heating can also be turned off. In this case only the rotating heat exchanger is used as a source of heat. It is best to leave it ON, as the unit will then respond automatically when there is a need for additional heating.

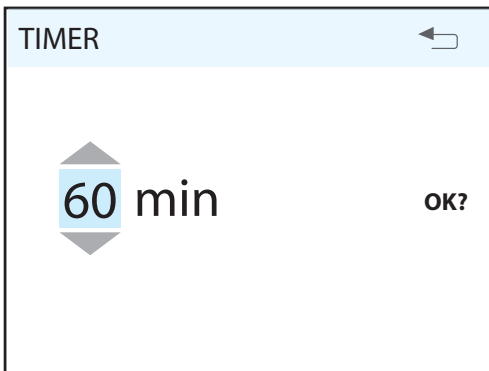
NB! This is not possible if the unit is installed with a water battery.

 If the heating element is switched off, this symbol is displayed when the display enters idle mode.



### 8.5 Timer

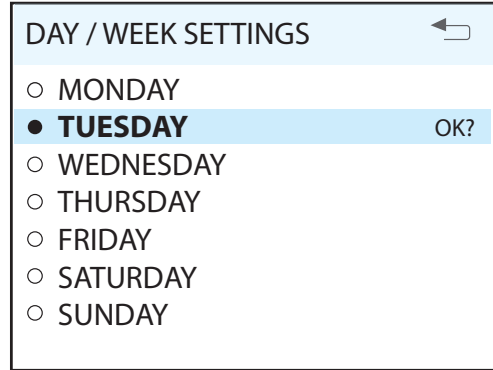
Here you set the time you want for the MAX TIMER function. This is used when the function is activated from the main menu.



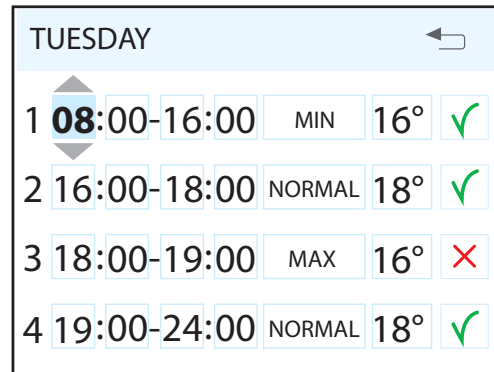
To adjust the time interval for MAX TIMER, see chapter 9.4 under "Timer".

### 8.6 Daily/weekly timer

The programming of the timer begins by selecting the day.



A new menu screen appears under each day.



Each day can be programmed with four different time intervals. Adjust the start and stop times for each interval and then adjust the desired speed and temperature. To activate the interval, select a green tick. A red cross means that the interval is not activated. If necessary, then select another interval and repeat the procedure.



**NB!**

The following rules apply to the programming:

- An interval can never commence before a previous one has been finished.
- The stop time can never appear before the start time.

After you have finished programming a day, repeat the procedure for other days.

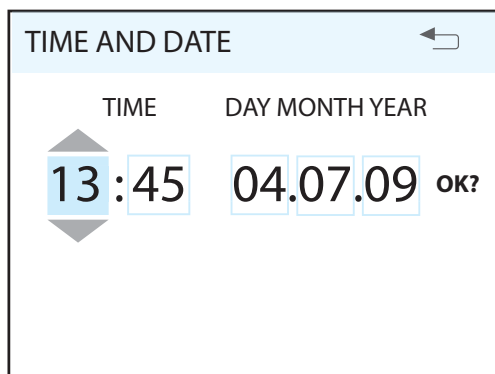


When the timer is active, this symbol is displayed when the display enters idle mode.

If there is no new time interval registered after the finished period, the speed and temperature return to the setting that was previously active.

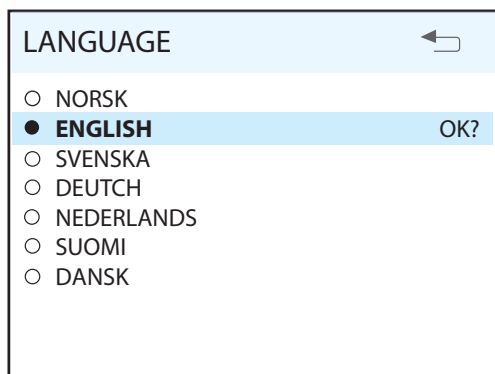
### 8.7 Time and date

The time and date can be adjusted in this dialog.



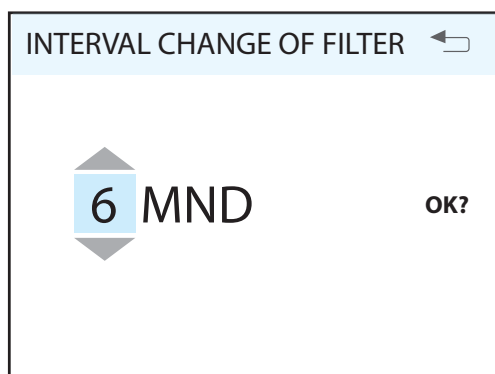
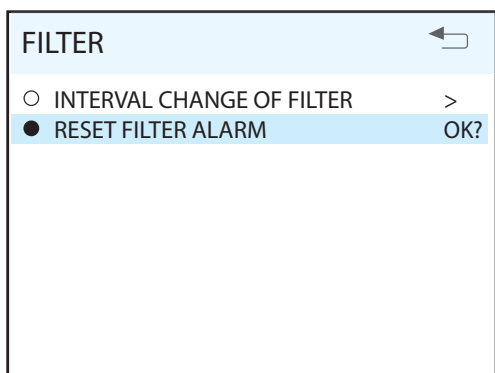
### 8.8 Language

The language selected can be changed in this dialog.



### 8.9 Filter

A reminder appears regularly in the display. In this dialog, the time interval can be adjusted and the filter alarm reset.



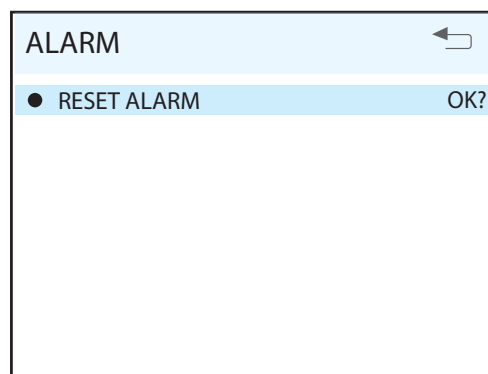
The normal interval is 6 - 12 months, depending on the environment.

When the filter alarm is triggered, the yellow indicator 8 lights up and an information text appears. Follow the instructions in the text. It is possible to go directly to this dialog from the message or via the menu tree. After the alarm has been reset, the countdown to the next filter replacement begins.

### 8.10 Alarm

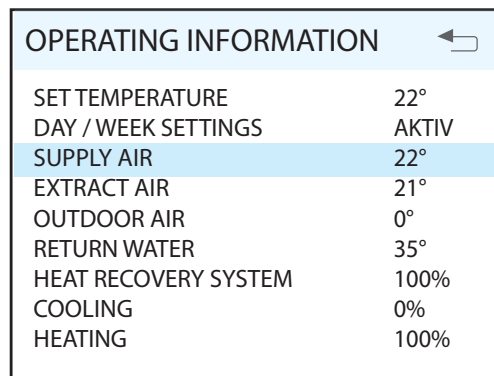
If a problem occurs in the operation of the ventilation unit, an alarm will be triggered. The red indicator 9 lights up and an information text appears in the display. Follow the instructions in the text. It is possible to go directly to this dialog from the message or via the menu tree.

NB! If thermostat F10 trips, the unit will have to be opened up and physically reset **before** resetting on the panel. If the alarm is tripped repeatedly, contact the service company or distributor.



### 8.11 Operating information

This general screen displays current temperature values, whether the daily/weekly timer is active and activity as 0-100% for cooling, heat exchanger and additional heating.

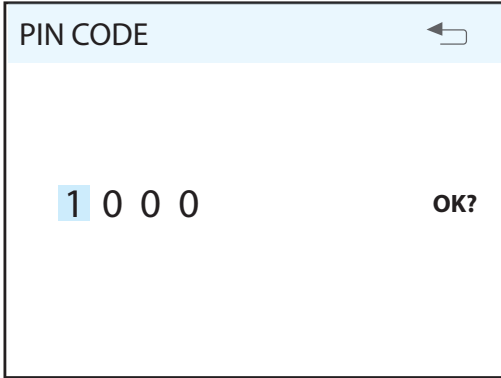


## 9 CI600 advanced user menu

**NB!** For more information on the "Advanced User" menu, refer to the "CI600 Reference Manual" on Flexit's homepage.

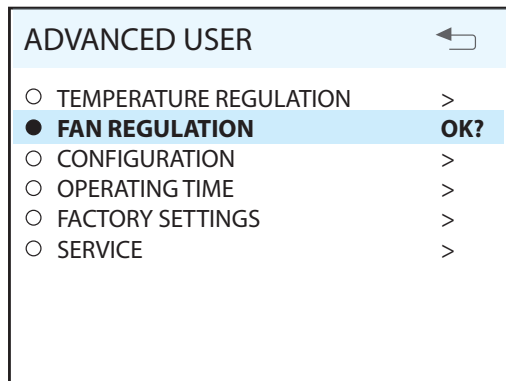
### 9.1 PIN

To access the menu item, you need to enter the PIN **1000**.



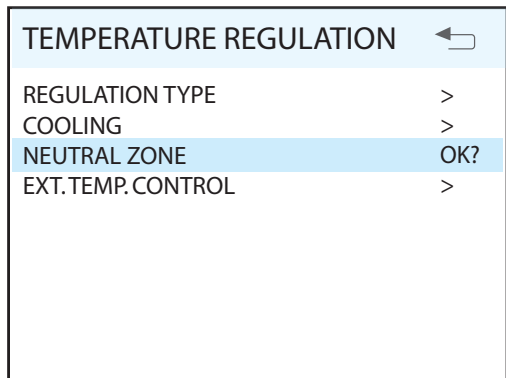
### 9.2 Advanced user

This menu contains functions for monitoring, configuration and troubleshooting. Information to do with adjustment can be found in the installation instructions. Complete documentation of all menus, including configuration for accessories and extras, etc., is described in the CI600 reference manual, which is available at [www.flexit.no](http://www.flexit.no).



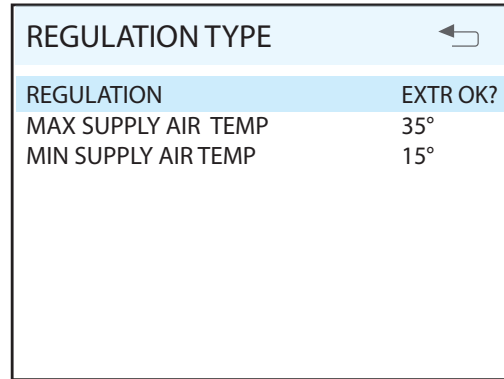
### 9.3 Temperature regulation

In this menu screen, you configure the temperature regulation and cooling functions.



### Regulation type

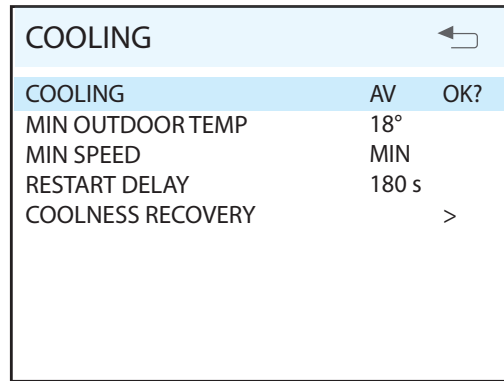
If supply air regulation is selected, no further settings can be set here. If extract air regulation is selected, the max. and min. supply air temperatures can also be specified.



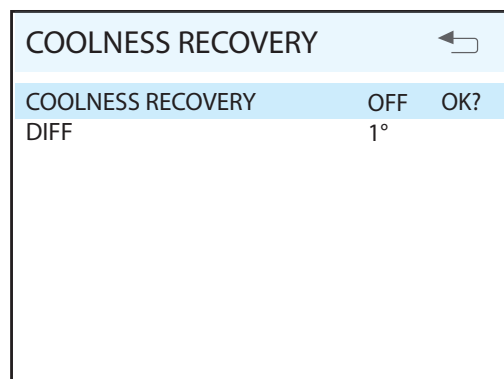
### Cooling

**NB!** Flexit does not supply or project cooling machines.

In this dialog, the cooling function is activated and the parameters MIN OUTDOOR AIR TEMP for supply of cooling and MIN SPEED for supply of cooling are specified. If a DX cooling machine is used, the supply delay interval can be specified.



It is also possible to activate a function to recover cooling in the building using the rotating heat exchanger. Enter the desired difference between the outdoor and indoor air temperatures for when the function is activated.



**Neutral zones**

To achieve more even temperature regulation, the neutral zones can be set in this menu.

NEUTRAL ZONE		
COOLNESS RECOVERY	2°	OK?
HEAT RECOVERY SYSTEM	1°	

**External temperature control**

Control of the temperature settings from an overall system must be entered in this menu. In this case, the temperature settings in the control unit are overridden.

EXT. TEMP. CONTROL		
EXT. TEMP. CONTROL	OFF	OK?

**9.4 Fan control**

The fans are selected and configured in this menu screen.

FAN REGULATION		
SUPPLY AIR	>	
EXTRACT AIR	>	
TIMER	OK?	
AIR VOLUME COMP	>	

**Adjustment (supply air and extract air)**

This dialog is identical for the supply air and extract air fans. The fans are adjusted individually to the desired capacity for the respective speed.

SUPPLY AIR		
MIN SPEED	50%	OK?
NORMAL SPEED	75%	
MAX SPEED	100%	

Factory settings:

<b>MIN</b>	50%
<b>NORMAL</b>	75%
<b>MAX</b>	100%

**Timer**

Settings are entered in this menu for the speed and time that are to apply to the 'MAX TIMER' function in the main menu.

TIMER		
STANDARD SPEED	MAX	OK?
STANDARD TIME	30 m	

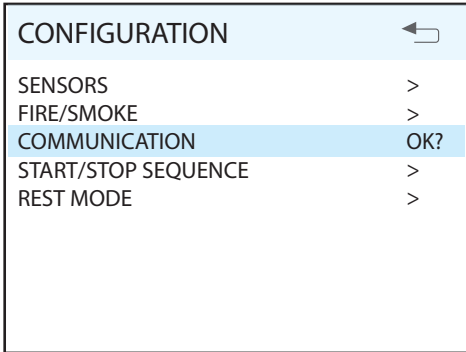
**Air flow rate compensation**

This function can be activated via an input on the control card. The speeds required for each fan are selected here. The function can be used with a kitchen fan or other device that requires additional supply air.

AIR VOLUME COMPENSATION		
SUPPLY AIR	MAX	OK?
EXTRACT AIR	MIN	

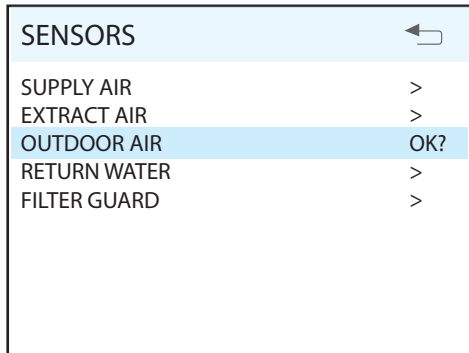
### 9.5 Configuration

The general configuration is set in this menu screen.

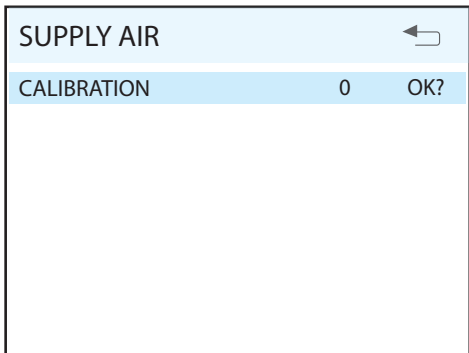


#### Sensors

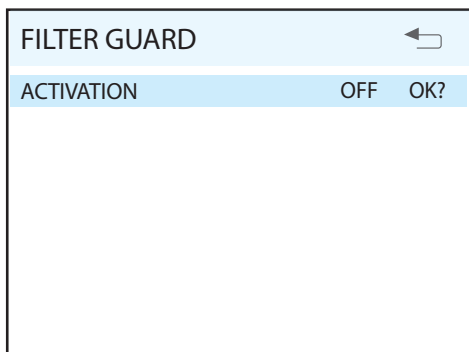
The temperature sensors can be calibrated in this menu to be better coordinated with the real situation, and a pressure sensor is activated as a pressure guard instead of the integrated time control.



The menu screen is identical for all temperature sensors and they can be adjusted within an interval of 5 °C.

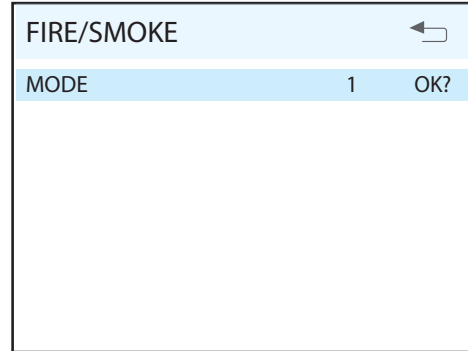


If the pressure guard is activated, an external sensor must be connected to the control card. The sensor replaces the integrated filter time control.



#### Fire/Smoke

This function requires an external sensor to be connected to the control card.

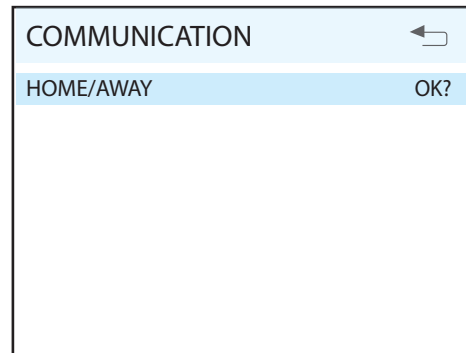


Mode	Supply air fan	Extract air fan
1	STOP	STOP
2	MAX	MAX
3	STOP	MAX
4	MAX	STOP

#### Communication

Proceed to the "HOME/AWAY" submenu. This function can be used to make the unit run on other operating settings using an external switch.

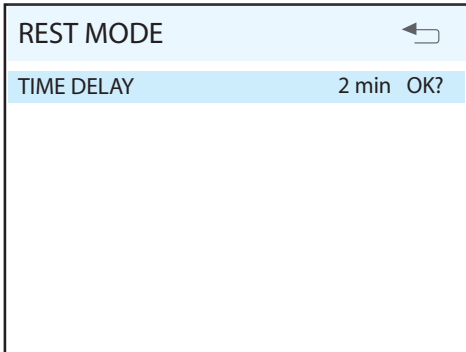
NB! The settings have no effect unless an external switch is connected.



The settings are entered for the AWAY selection. Speed and temperature can be selected, plus how long after activation the new setting should take effect.

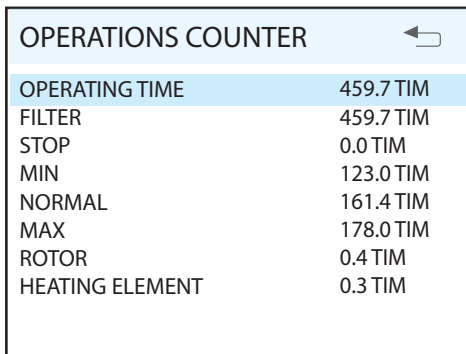
**Standby mode**

In this menu you can adjust the time it takes before the display enters idle mode.



**9.6 Operating time**

This menu screen displays the ventilation unit's total operating time and how much time has passed since the last filter replacement.



**9.7 Service**

**i** Password given only in consultation with the Flexit service organisation.

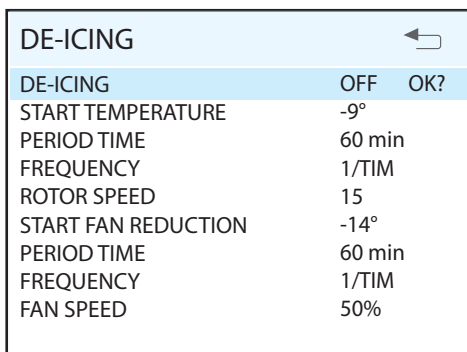
**De-icing**

The integrated de-icing function is deactivated on delivery of the ventilation unit.

The function can be configured or activated in this menu screen.

**Search path to menu screen:**

MAIN MENU/SETTINGS/ADVANCED USER/SERVICE/DE-ICING



**De-icing**

Activates/deactivates the function.

**Start temperature**

The start temperature for the defrosting function is set here. The temperature in question is the outdoor temperature.

**Period time**

Period time for de-icing operation.

**Frequency**

Decides how many times the period shall be repeated per hour.

**Rotor speed**

When the start temperature has been reached, the speed of the drive motor of the rotating heat exchanger is reduced to the specified RPM.

**Start fan reduction**

As an additional safety function, the speed of the supply air fan can be reduced. This takes effect at the set outdoor temperature.

**Period time**

Period time for de-icing operation.

**Frequency**

Decides how many times the period shall be repeated per hour.

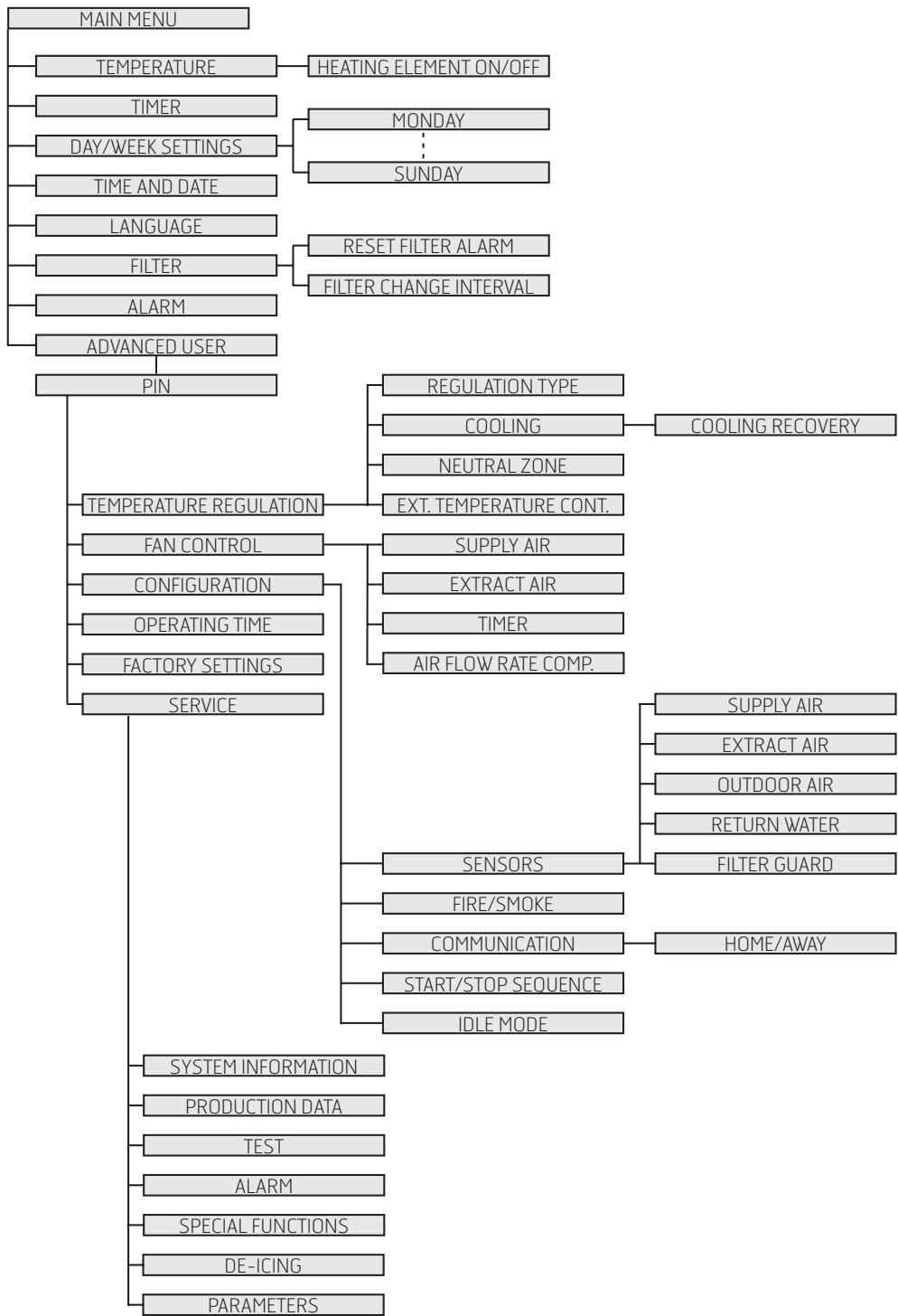
**Fan speed**

As an additional safety function, the speed of the supply air fan can be reduced. This takes effect at the set outdoor temperature.

**De-icing - Parameters**

Parameter	Default	Range	Unit
De-icing	OFF	OFF/ON	
Start temperature	-9	(-5)-(-45)	°C
Period time	60	1-60	min
Frequency	1	1-10	no./hour
Rotor speed	15	15-180	rpm
Fan reduction	-14	(-5)-(-45)	°C
Period time	60	1-60	min
Frequency	1	1-10	no./hour
Fan speed	50	20-100	%

9.8 Menu tree



## 10 Maintenance Table

Component	Action	Interval
Filters	Filters must be replaced at least once a year. It is recommended to change them twice a year, before and after the pollen season. Check that the filter seal is completely tight.	6-12 months
Fans	Fans must be cleaned at least once a year to maintain fan efficiency.	12 months
Rotor	Check that the surfaces are clean. Check that the sealing strips face in towards the rotary wheel-type heat exchanger. Check that the rotor belt is whole and not too slack.	12 months
Kitchen hood*	Wash the grease filter. Check that the damper is clean and closes fully.	2 weeks
Seals	Check that the seals in the unit are intact.	12 months
Valves	To be cleaned at least once a year.	12 months
Air intake	Check that no leaves or other items have caught in the grille. In frost mist periods during winter the air intake can freeze up. If necessary it must be scraped clean so that the air can pass through.	12 months
Roof cowl	If the unit has a roof cowl, this must be checked for leaves and the like. Also check that the drain slots are open.	12 months
Ducts	Check that the ducts are clean.	10 years
Brush strips	Check that the brush strips are whole and sit tightly against the rotor. If they are worn they can be moved to the next groove in the profile, so that they are closer to the rotor.	3 years
Inside unit	A combination of a very low outside temperature and damp extract air can lead to the formation of ice. Normally this will not be a problem - when normal operating conditions return the ice crystals will be converted to damp and be removed from the unit via the exhaust air. In the case of extreme cold over longer periods the unit should be checked for ice.	

\*For units with extract air from the kitchen hood connected to the unit.

## 11 Troubleshooting

Type of fault	Remedial action
Cold draughts	Check which supply temperature has been selected. See operating panel.
	Check that the rotor is rotating.
	Check that heating comes on.
	Needs new extract filter.
Fans not working	Check that the power to the unit is connected.
	Check that the thermostat has not cut out.
	Reset by pressing the button. Must also be reset on the automatic panel.
Low air volume	Check the speed the unit is set to.
	Check that the filters are tight.
	Check the intake grille.



## 12 CE Declaration of Conformity

This declaration confirms that the products meet the requirements in the following Council Directives and standards:

2014/30/EC	Electromagnetic Compatibility (EMC)
2014/35/EC	Low-voltage Directive (LVD)
1253/2014	Ecodesign regulation
1254/2014	Energy labelling regulation

Our products have been tested in accordance with parts of:  
2006/42/EC Machinery Directive (Safety)

Compliance with valid versions of the following standards on the date on which the declaration of conformity was signed:

Safety standard:	EN 60335-1 EN 60335-2-80
EMF standard:	EN 62233
EMC standard:	EN 55014-1 EN 55014-2 EN 61000-3-2 EN 61000-3-3

Producer: FLEXIT AS, Televeien 15, 1870 Ørje, Norway

The product is CE-marked: 2010

Type: UNI 3 R Ventilation unit

**FLEXIT AS** 29.11.2016



Frank Petersen  
Adm. dir.

The right to give notice of lack of conformity applies to this product in accordance with the existing terms of sale, **provided that the product is correctly used and maintained**. Filters are consumables.



The symbol on the product shows that this product must not be treated as household waste. It must be taken to a reception station for recycling of electrical and electronic equipment. By ensuring correct disposal of the equipment, you will contribute to preventing negative consequences for the environment and health that incorrect handling may entail. For further information on the recycling of this product, please contact your local authority, your refuse collection company or the company from which you purchased it.

Notice of lack of conformity as a result of incorrect or defective installation must be submitted to the installation company responsible. The right to give notice of lack of conformity may lapse if the system is used incorrectly or maintenance is grossly neglected.







Flexit AS, Televeien 15, N-1870 Ørje [www.flexit.no](http://www.flexit.no)