

# Ventilation system ComfoAir Basic

Gebruikershandleiding  
User manual  
Manuale per l'utente  
Benutzerhandbuch  
Instrukcja obsługi



ComfoAir 160



ComfoAir 200



ComfoAir 350






ComfoAir Standard 300  
ComfoAir Standard 375

 **Read this document carefully before use.**

This document provides all the information required for safe and optimal operation and maintenance of the ComfoAir 160, 200, 350 and ComfoAir Standard 300, 375. In this document it will be referred to as “the unit”. The unit is subject to continuous development and improvement. As a result, the unit may slightly differ from the descriptions.

**The following pictograms are used in this document:**

Symbol	Meaning
	Point of attention.
	Risk of compromised performance or damage to the ventilation system.
	Risk of personal injury.

**!?** **Questions**

Please contact the supplier if you have any questions or would like to order a new document or new filters. The contact details of the main supplier can be found on the rear flap of this document.

**The following information can be found in this document:**

Information	Chapter
General information about the ventilation system.	1
Safety instructions which must be followed.	1
Operating devices available for the unit.	2
The meaning of the information displayed on the display of the unit.	2
Using the display to set different parameters (P-menus).	2
A summary of all the different parameters (P-menus).	2
What to do with the unit at the end of its life.	3
CE certification and warranty	3
How to replace the filters of the unit.	4
How to clean the valves of the ventilation system.	4
When the installer or maintenance mechanic must come by for the maintenance of the unit.	4
What to do in event of a malfunction.	5

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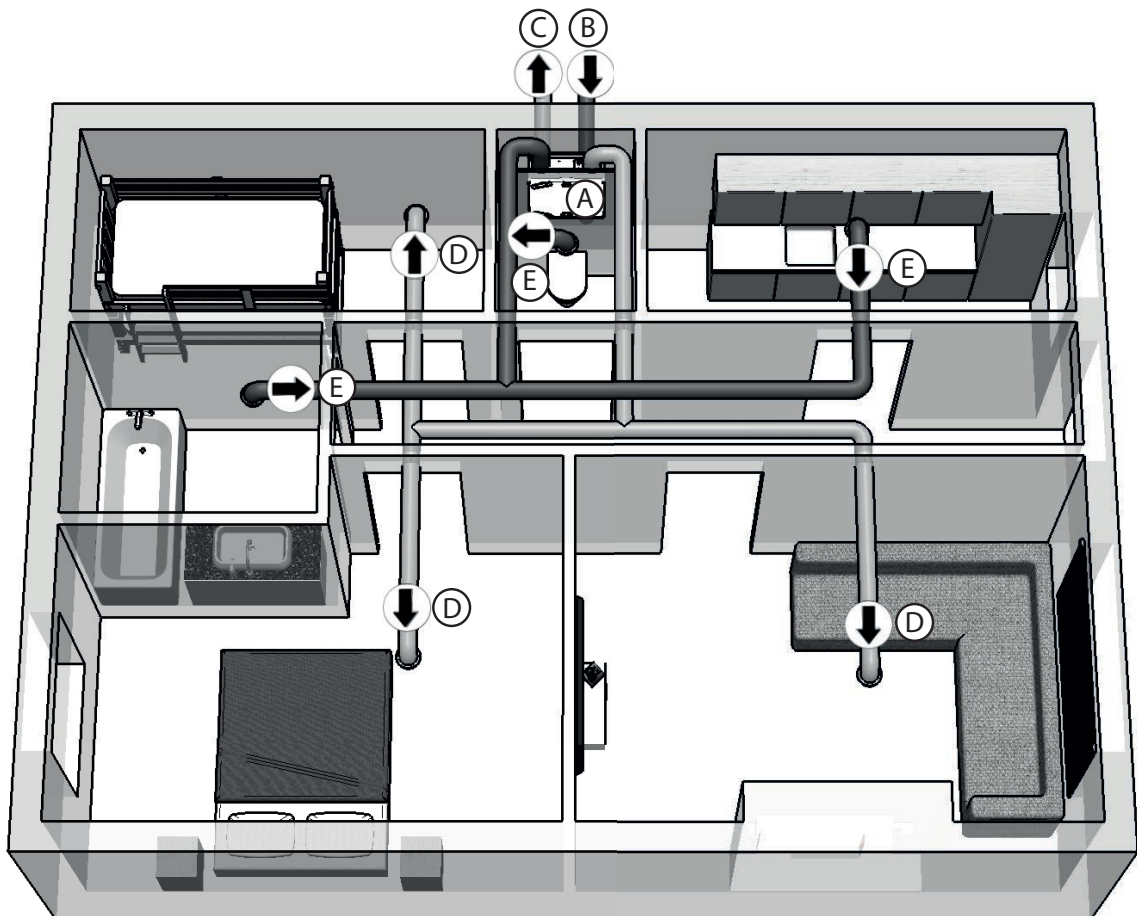
## 1 Introduction and safety

The unit is a balanced ventilation system with heat recovery in order to create energy-efficient ventilation in houses. Balanced ventilation means that pollutants from the kitchen, the bathroom, the toilet(s) and possibly the storage room are extracted, while the same amount of fresh air is blown into the living room and bedrooms. Gaps under or near the doors ensure a good through-flow in the dwelling.

**!** Ensure that the gaps under or near the door are never obstructed. For example by furniture, draught excluders or deep-pile carpet.

A balanced ventilation system consists of:

- The unit (A);
- Duct system for the supply of outdoor air (B);
- Duct system for the exhaust of indoor air (C);
- Supply valves in the living room and bedrooms (D);
- Exhaust valves in the kitchen, bathroom, the toilet and (if present) the storage room (E).



## **Safety instructions**

Always follow the safety regulations, warnings, comments and instructions given in this document. Personal injury or damage to the unit can arise from non-compliance with the safety regulations, warnings, comments and instructions in this document.

- It is recommended to take out a maintenance contract so that the device is checked on a regular basis. The supplier can provide a list of registered installers nearby;
- The unit may only be installed, connected, rendered operational and maintained by an appropriately approved installer, unless otherwise indicated in this document;
- Store the document for the entire working life of the unit;
- Instructions with regard to cleaning or replacing the filters must be carefully observed;
- When carrying out any work on the unit, make sure the power is disconnected and cannot be inadvertently reconnected;
- The unit cannot be opened without using tools.

## **Use of the unit**









- The unit may only be used once it has been properly installed according to the instructions and guidelines given in the installer manual of the unit;
- Do not open the casing. The installer makes sure that all components that can cause personal injury are safely contained within the casing;
- The unit 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 unit in a safe way and understand the hazards involved.
- Children must not play with the unit;
- Children must not clean and maintain the unit unsupervised.

## 2 Operation

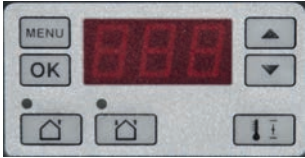

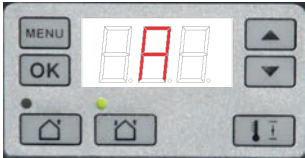
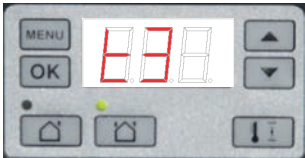
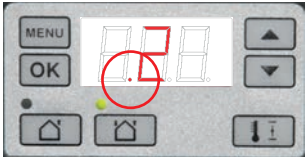



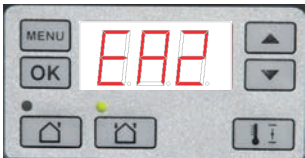
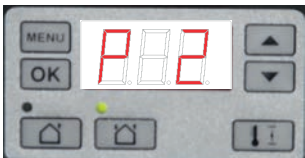

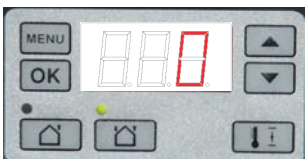

How to use and read the operating devices of the unit is mentioned in the document of the operating device.  
How to use and read the display on the unit is mentioned in this document.


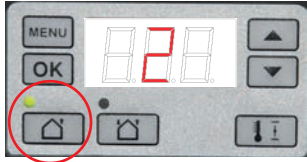

### 2.1 Available operating devices

One or more of the following operating devices can be present to operate the unit:

Appearance	Name	Functions
	Display on unit	<p>Indicating the set ventilation level; Indicating a malfunction or filter alert; Indicating if the bypass is open; Turning the supply fan on and off; Indicating and setting the comfort temperature; Setting the P-menus; Resetting the malfunctions and filter alert.</p> <p> <b>The desired ventilation level cannot be set with the display on the unit.</b></p>
	SA 1-3V	<p>Set the desired ventilation level:</p> <ul style="list-style-type: none"> <li>■ 1 = Low;</li> <li>■ 2 = Normal;</li> <li>■ 3 = High;</li> <li>■ Overrun timer.</li> </ul>
	SA 0-3V	<p>Set the desired ventilation level:</p> <ul style="list-style-type: none"> <li>■ 0 = Off;</li> <li>■ 1 = Low;</li> <li>■ 2 = Normal;</li> <li>■ 3 = High;</li> <li>■ Overrun timer.</li> </ul>
	SAI Flash	<p>Set the desired ventilation level:</p> <ul style="list-style-type: none"> <li>■ 1 = Low;</li> <li>■ 2 = Normal;</li> <li>■ 3 = High;</li> <li>■ Overrun timer.</li> </ul> <p>Indicating a malfunction or filter alert.</p>
	Bathroom switch	Activating the overrun timer.
	RFZ	<p>Set the desired ventilation level:</p> <ul style="list-style-type: none"> <li>■ 0 = Off;</li> <li>■ 1 = Low;</li> <li>■ 2 = Normal;</li> <li>■ 3 = High;</li> <li>■ ☺ = Overrun timer.</li> </ul> <p>Indicating a malfunction or filter alert.</p>
	ComfoSense	<p>Indicating and setting the desired ventilation level:</p> <ul style="list-style-type: none"> <li>■ ☺ = Absent</li> <li>■ ☺ = Low;</li> <li>■ ☺ = Normal;</li> <li>■ ☺ = High;</li> <li>■ PARTY TIMER = Overrun timer;</li> <li>■ AUTO = Preset programme.</li> </ul> <p>Indicating a malfunction or filter alert; Indicating if the bypass, pre heater, ComfoFond-L, preset programme, analogue programme or overrun timer is activated; Turning the supply and/or exhaust fan on and off; Indicating and setting the comfort temperature; Setting the P-menus; Resetting the malfunctions and filter alert; Setting a preset ventilation programme; Setting and showing date and time.</p>


## 2.2 Reading the display on the unit

Appearance	Description	What to do
	All lights are off. The power of the unit is turned off.	Turn on the power of the unit.
	One number is displayed in the middle of the display. The current ventilation setting is displayed. Possible displayed settings are: ■ 1 = Low; ■ 2 = Normal; ■ 3 = High.	No action required.
	The letter "A" is displayed in the middle of the display. The current ventilation setting is displayed. The displayed setting is "Absent".	No action required.
	The letter "t" is displayed at the left of the display (with one number in the middle of the display). An overrun timer is activated (and the current ventilation setting is displayed).	No action required.
	A point is displayed next to the middle of the display (with one number in the middle of the display). The bypass is opened (and the current ventilation setting is displayed).	No action required.
	The letters "FIL" and "tEr" are alternately flashing on the display. The "internal filter malfunction" is displayed..	Clean or replace the filters as mentioned in the "Maintenance" chapter.
	The letter "A" is flashing at the left of the display with one or two numbers on the right of the display. The current "malfunction code" is displayed.	Contact the installer or maintenance mechanic as mentioned in the "Malfunctions" chapter.
	The letter "E" is flashing at the left of the display with one number on the right of the display. The current "malfunction code" is displayed.	Contact the installer or maintenance mechanic as mentioned in the "Malfunctions" chapter.
	The letters "EA" are flashing at the left of the display with one number on the right of the display. The current "malfunction code" is displayed.	Contact the installer or maintenance mechanic as mentioned in the "Malfunctions" chapter.
	The letter "P" is displayed at the left of the display with one or two numbers on the right of the display. The current chosen "P-menu" is displayed.	No action required.  <b>At this time the lower buttons of the display are not functional.</b>
	One, Two or Three numbers are displayed in the right of the display. The current setting of the chosen "P-menu" is displayed.	No action required.  <b>At this time the lower buttons of the display are not functional.</b>









Appearance	Description	What to do
	Three numbers with a point after the second number are displayed in the display. The current setting of the comfort temperature is displayed.	No action required.
	The light above the icon with one arrow is lit. The supply fan is turned off. There is no supply of fresh air.	Do not forget to turn on the supply fan again when the supply fan has been turned off manually.
	The light above the icon with two arrows is lit. The supply fan is turned on. There is balanced ventilation.	No action required.

### 2.3 Reading and setting the comfort temperature

The unit will strive for the most comfortable supply air temperature based on the set comfort temperature.

 **It is best to set the comfort temperature to the same temperature as the room thermostat (of the central heating system).**

The comfort temperature can be set between 12°C and 28°C. How to read or set the comfort temperature on the present operating device can be found in the document of the operating device.

	Action on display	Reaction on display*	Explanation
1	Press and hold  for at least 3 seconds		Current set comfort temperature is being displayed.
2	Press 		Comfort temperature is increased by 0.5°C.
	Or press 		Comfort temperature is decreased by 0.5°C.
3	Press 		Comfort temperature is confirmed and the display returns to the default screen.

\* The displayed settings are the standard setting of the unit. This may differ from the actual setting of the unit.



## 2.4 Switching the supply fan on and off


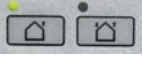


When required, the supply fan of the unit can be turned off manually. This may be desired to keep out unpleasant odors from outside. Bear in mind that switching off the supply or exhaust fan will temporarily immobilize your dwelling's balanced ventilation system, so do not forget to turn the supply fan on again. How to switch the supply fan on or off on the present operating device can be found in the document of the operating device.


### When can the supply fan not be turned off on the display?

To prevent air being sucked back from the chimney of a fireplace the unit is fitted with an open fire programme. When needed the installer or maintenance mechanic can turn this programme on. If the open fire programme is turned on the supply fan cannot be turned on or off manually.

### When can the supply fan not be turned on?

The supply fan cannot only be operated manually but can also be controlled automatically by the unit itself. This occurs in the winter to protect the unit from freezing. If the supply air is too cold for the unit, the unit will automatically switch the supply fan off. In this case the supply fan cannot be turned on manually.

	Action on display	Reaction on display	Explanation
1	Press and hold  for at least 3 seconds		The supply fan is turned off.  The light above the button turns green.
2	Press and hold  for at least 3 seconds		The supply fan is turned on.  The light above the button turns green.










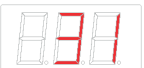










 **The supply fan will not automatically turn back on. Do not forget to turn the supply fan back on later on.**

## 2.5 Setting a overrun timer for the RFZ

The ventilation setting can be increased for a set time using one button on the RFZ. This can be useful when additional ventilation is needed for a short time like during cooking and showering. How to switch the overrun timer on or off can be found in the document of the RFZ. The RFZ has two overrun timers which must be set separately.

The overrun timer for briefly pressing the RFZ must be set in P-menu 25. This timer can be set between 1 minute and 10 minutes.





















The overrun timer for pressing and holding the RFZ must be set in P-menu 26. This timer can be set between 1 minute and 120 minutes.

	Action on display	Reaction on display *	Explanation
1	Press 		The main P-menus are being entered.
2	Press 		The sub P-menus of the selected P-menu are being entered
3	Press  until P25 or P26 appears		The different sub P-menus of the selected P-menu are being displayed.
4	Press 		The selected P-menu is being entered.
5	Press 		Time delay is increased with 1 minute.
	Or press 		Time delay is decreased with 1 minute.
6	Press 		Time delay is confirmed and returned to the sub P-menus of the selected P-menu.
	Press 		Old settings are restored and returned to the sub P-menus of the selected P-menu.
7	Press 		Returned to the main P-menus.
8	Press 		Returned to the default screen.

\* The displayed settings are the standard setting of the unit. This may differ from the actual setting of the unit.


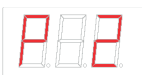















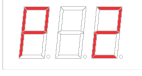


## 2.6 Setting an overrun timer for the SA 1-3V, SA 0-3V or SAI Flash

The ventilation setting can be increased for a set time. This can be useful when additional ventilation is needed for a short time like during cooking and showering. How to switch the overrun timer on or off can be found in the document of the SA 1-3V, SA 0-3V or SAI Flash. The overrun timer can be set in P-menu 23 between 0 minute and 120 minutes.

	Action on display	Reaction on display *	Explanation
1	Press 		The main P-menus are being entered.
2	Press 		The sub P-menus of the selected P-menu are being entered
3	Press  until P23 appears		The different sub P-menus of the selected P-menu are being displayed.
4	Press 		The selected P-menu is being entered.
5	Press 		Time delay is increased by 1 minute.
	Or press 		Time delay is decreased by 1 minute.
6	Press 		Time delay is confirmed and returned to the sub P-menus of the selected P-menu.
	Press 		Old settings are restored and returned to the sub P-menus of the selected P-menu.
7	Press 		Returned to the main P-menus.
8	Press 		Returned to the default screen.

## 2.7 Setting an overrun timer for the second SA 1-3V, SA 0-3V or SAI Flash (bathroom switch)
















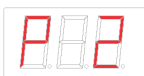


The ventilation setting can be increased for a set time. This can be useful when additional ventilation is needed for a short time like during cooking and showering. How to switch the overrun timer on or off can be found in the document of the SA 1-3V, SA 0-3V or SAI Flash. The overrun timer can be set in P-menu 22 between 0 minute and 120 minutes.

	Action on display	Reaction on display *	Explanation
1	Press 		The main P-menus are being entered.
2	Press 		The sub P-menus of the selected P-menu are being entered
3	Press  until P22 appears		The different sub P-menus of the selected P-menu are being displayed.
4	Press 		The selected P-menu is being entered.
5	Press 		Time delay is increased by 1 minute.
	Or press 		Time delay is decreased by 1 minute.
6	Press 		Time delay is confirmed and returned to the sub P-menus of the selected P-menu.
	Press 		Old settings are restored and returned to the sub P-menus of the selected P-menu.
7	Press 		Returned to the main P-menus.
8	Press 		Returned to the default screen.

\* The displayed settings are the standard setting of the unit. This may differ from the actual setting of the unit.

## 2.8 Setting a delay timer for the second SA 1-3V, SA 0-3V or SAI Flash (bathroom switch)

A high ventilation setting is not always desired, for instance when you only go to the bathroom for a short time. Therefore a delay time, in which the unit will do nothing with the information it receives from the bathroom switch, can be set. How to switch the overrun timer on or off can be found in the document of the SA 1-3V, SA 0-3V or SAI Flash. The delay timer can be set in P-menu 21 between 0 minute and 15 minutes.





















	Action on display	Reaction on display *	Explanation
1	Press 		The main P-menus are being entered.
2	Press 		The sub P-menus of the selected P-menu are being entered
3	Press 		The selected P-menu is being entered.
4	Press 		Time delay is increased by 1 minute.
	Or press 		Time delay is decreased by 1 minute.
5	Press 		Time delay is confirmed and returned to the sub P-menus of the selected P-menu.
	Press 		Old settings are restored and returned to the sub P-menus of the selected P-menu.
6	Press 		Returned to the main P-menus.
7	Press 		Returned to the default screen.

## 2.9 Setting the delay timer for the filter alert

How fast the filters of the unit needs cleaning or replacing depends on the air quality of the environment.

In the countryside the filters may not pollute as fast as in urban places. Therefore the filter alert has an adjustable delay timer. After the delay timer has run out the following filter malfunctions appear alternately on the display: **FLL** and **EEF**.

How to clean or replace the filters is mentioned in the "Maintenance" chapter. The delay timer can be set in P-menu 24 between 10 weeks and 25 weeks.

	Action on display	Reaction on display *	Explanation
1	Press 		The main P-menus are being entered.
2	Press 		The sub P-menus of the selected P-menu are being entered
3	Press  until P24 appears		The different sub P-menus of the selected P-menu are being displayed.
4	Press 		The selected P-menu is being entered.
5	Press 		Time delay is increased by 1 minute.
	Or press 		Time delay is decreased by 1 minute.
6	Press 		Time delay is confirmed and returned to the sub P-menus of the selected P-menu.
	Press 		Old settings are restored and returned to the sub P-menus of the selected P-menu.
7	Press 		Returned to the main P-menus.
8	Press 		Returned to the default screen.

\* The displayed settings are the standard setting of the unit. This may differ from the actual setting of the unit.

## 2.10 P menus for the user

A summary of all the accessible P-menus is given below.





### Menu P1 > Status of time programmes

Submenu	Description	Status
		Activated
P11	Is menu P21 currently active?	Yes (1) / No (0)
P12	Is menu P22 currently active?	Yes (1) / No (0)
P13	Is menu P23 currently active?	Yes (1) / No (0)
P14	Is menu P24 currently active?	Yes (1) / No (0)
P15	Is menu P25 currently active?	Yes (1) / No (0)
P16	Is menu P26 currently active?	Yes (1) / No (0)

### Menu P9 > Status of additional programmes

Submenu	Description	Status
		Activated
P90	Open fire programme active?	Yes (1) / No (0)
P91	Bypass open?	Yes (1) / No (0)
P94	Analogue input (0-10V) active?	Yes (1) / No (0)
P95	Frost protection active?	Yes (1) / No (0)
P96	n/a	Yes (1) / No (0)
P99	Enthalpy programme active?	Yes (1) / No (0)

### Menu P2 > Setting time delays

Submenu	Description	Time delay values		
		Minimum	Maximum	General reset
P21	<p>Delay timer for the bathroom switch (to switch to high position).</p> <p>■ 'x' minutes after operating the bathroom switch, the unit switches to the high setting.</p> <p> <b>Only applies to systems fitted with two SA 1-3V, SA 0-3V or SAI Flash switches.</b></p>	0 Min.	15 Min.	0 Min.
P22	<p>Overrun timer for the bathroom switch (to switch to normal position).</p> <p>■ 'x' minutes after operating the bathroom switch, the unit switches back to the normal setting.</p> <p> <b>Only applies to systems fitted with two SA 1-3V, SA 0-3V or SAI Flash switches.</b></p>	0 Min.	120 Min.	30 Min.
P23	<p>Overrun timer for ventilation position 3 (using a hardwired 3-position switch).</p> <p>■ If ventilation setting 3 (high) is switched on briefly (&lt; 3 sec), the unit will switch to the high setting for 'x' minutes and then automatically returns to the normal setting.</p> <p>If any switch is operated during this lagging time the unit will instantly revert to the ventilation position as set at that time.</p>	0 Min.	120 Min.	0 Min.
P24	<p>Filter warning</p> <p>■ 'x' weeks after cleaning or replacing the filters the "filter dirty" alert will reappear.</p>	10 weeks	26 weeks	16 weeks
P25	<p>Overrun timer for ventilation setting 3 (using ☺).</p> <p>■ After pressing ☺ briefly (&lt; 2 sec.), the unit will switch to the high setting for 'x' minutes and then automatically returns to the normal setting.</p> <p>If any switch is operated during this lagging time the unit will instantly revert to the ventilation position as set at that time.</p> <p> <b>Only applies to systems fitted with an RFZ swith.</b></p>	1 Min.	20 Min.	10 Min.
P26	<p>Overrun timer for ventilation setting 3 (using ☺).</p> <p>■ After pressing ☺ continuously (&gt; 2 sec.), the unit will switch to the high setting for 'x' minutes and then automatically returns to the normal setting.</p> <p>If any switch is operated during this lagging time the unit will instantly revert to the ventilation position as set at that time.</p> <p> <b>Only applies to systems fitted with an RFZ swith.</b></p>	1 Min.	120 Min.	30 Min.
P27	n/a	0 Min.	120 Min.	30 Min.

### 3 CE certification and warranty

#### **Warranty conditions**

The unit is covered by a manufacturer's warranty for a period of 24 months after fitting up to a maximum of 30 months after the date of manufacture. Warranty claims may only be submitted for material faults and/or construction faults arising during the warranty period. In the case of a warranty claim, the unit must not be dismantled without written permission from the manufacturer. Spare parts are only covered by the warranty, if they were supplied by the manufacturer and have been installed by an approved installer.

The warranty becomes invalid if:

- The guarantee period has elapsed;
- The device is used without filters;
- Parts are used that have not been supplied by the manufacturer;
- Non-authorized changes or modifications have been made to the unit.
- Installation has not been carried out according to the applicable regulations;
- The defects are due to incorrect connection, inexpert use, or contamination of the system;

On-site (dis)assembly costs are not covered by the terms of the warranty. This also applies to normal wear and tear. Zehnder retains the right to change the construction and/or configuration of its products at any time without being obliged to alter previously delivered products.

#### **Liability**

The unit has been designed and manufactured for use in balanced ventilation systems incorporating Zehnder heat recovery systems. Any other application is seen as inappropriate use and can result in damage to the unit or personal injury, for which the manufacturer cannot be held liable. The manufacturer is not liable for any damage originating from:

- Non-compliance with the safety, operating and maintenance instructions in this document;
- The use of components not supplied or recommended by the manufacturer.  
Responsibility for the use of such components lies entirely with the installer;
- Normal wear and tear.


#### **End of useful life**

Consult with the supplier about what should be done with the unit at the end of its useful life. If the unit cannot be returned to the supplier, avoid disposing of it with the domestic waste, and ask your local council about the options for recycling the components or processing the materials in an environmentally friendly manner.


Furthermore, do not dispose of batteries from the wireless (RF) switches with the normal waste, but bring them to the specially designated disposal locations.




## 4 Maintenance

 **Failure to carry out (periodic) maintenance on the unit ultimately compromises the performance of the ventilation system.**

The unit should be inspected and cleaned every 2 years by a specialist. To ensure a hassle free lifespan for your unit, we recommend you take out a service agreement with an expert company.



 **Ensure the unit has been disconnected from mains power before carrying out any maintenance work.**

The power to the unit should not be disconnected unless the unit is to be taken out of service due to a serious malfunction, or for filter replacement or any other compelling reasons.

 **If the power to the unit is disconnected, mechanical ventilation of the dwelling will cease. This can lead to a build-up of moisture and results in problems with mould.**

### 4.1 Cleaning or replacing the filters

 **Replace the filters (at least) every six months and clean the filters every 2 or 3 months.**

When indicated on the display you must clean or replace the filters. The following filter malfunctions appears alternately on the display:  and .

The installer of the unit can provide the necessary new filters.

Filter type	Remarks
ISO Coarse/ ISO ePM1	ISO 16890 compliant

## 4.1.1 Replacing the internal filters

Action		Explanation
1	 <p>4 seconds</p>	<p>Reset the filter error by pressing <b>OK</b> on the display for at least 4 seconds until the filter warning disappears.</p>
2		<p>Disconnect the power from the unit.</p>
3	<div style="display: flex; justify-content: space-around;"> <div data-bbox="300 712 520 976">  <p>ComfoAir 160</p> </div> <div data-bbox="699 667 896 976">  <p>ComfoAir 200</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="316 1160 497 1357">  <p>ComfoAir 350</p> </div> <div data-bbox="692 1111 912 1379">  <p>ComfoAir Standard 300 ComfoAir Standard 375</p> </div> </div>	<p>Remove the handles (A) from the unit.</p>
4	<div style="display: flex; justify-content: space-around;"> <div data-bbox="300 1487 513 1715">  <p>ComfoAir 160/200</p> </div> <div data-bbox="692 1473 932 1742">  <p>ComfoAir 350 ComfoAir Standard 300/375</p> </div> </div>	<p>Remove the dirty filters (B) from the unit.</p>
5		<p>Install the clean filter back into the unit and reconnect the power.</p> <p><b>!</b> When using the unit for the first time, it is recommended to replace the filters (and clean the valves) first. During the construction phase the ventilation system could have become dirty with building dust.</p>

## 4.2 Cleaning the valve

Clean the valves (at least) twice a year.

1. Mark the setting of the valve;
2. Remove the valve from the wall or ceiling;
3. Clean the valve in a solution of soap and warm water;
4. Rinse the valve thoroughly and wipe dry;
5. Place the valve back WITH EXACTLY THE SAME SETTING (and IN THE SAME HOLE);
6. Repeat this procedure for the other valves.



**Some valves have a filter behind it. If a filter is present clean this in the same way as the valve.**

### About the valve settings

The ventilation air is supplied and discharged by means of valves. Gaps under or near doors in the dwelling ensure that the air flows in the right direction. In order to ensure that the correct ventilation volumes are maintained in the rooms, the following must be observed:

- Do not seal the gaps under or near the doors. For example by furniture, draught excluders or deep-pile carpet. The gap should be at least 10mm;
- Do not change the settings of the valves;
- Do not swap the valves around.

The installer will have set all the valves to ensure the optimum performance of the ventilation system. Therefore, do not change the setting of the valves.

## 4.3 Condensation drain

Ensure that the water seal (u-bend) connected to the domestic waste-water system is always full of water.

## 4.4 Maintenance by the installer or maintenance mechanic

Not all necessary maintenance can be done by the user.



**Once every 2 years the installer or a maintenance mechanic should come by for the maintenance inside the balanced ventilation system.**

Some installers offer a full maintenance contract package where the user maintenance can also be integrated.

## 5 Malfunctions

In the event of a malfunction, the corresponding malfunction code will be displayed on the display of the unit.

In event of a filter malfunction the filter must be cleaned or replaced as described in the Maintenance chapter.

In the event of all other malfunction:

1. Note down the malfunction code that appears on the display of the unit
2. Note down the unit type.  
This is given on the identification plate on the unit near the power supply.
3. Contact the installer or maintenance mechanic and give him the noted information.

The system should not be disconnected from the power supply, unless the unit must be taken out of service due to a serious malfunction, or for filter cleaning/replacement or any other compelling reasons.



**If the unit is disconnected from the power supply, mechanical ventilation of the dwelling will cease. This can lead to a build-up of moisture and results in problems with mould.**



**If the unit is installed in an area with a higher average humidity (such as bathroom or toilet) the probability of condensation on the outside of the unit is high. This is similar to condensation on a window and no action is needed.**



# I Installation/test report

Date		Address	
Work instruction		Town/city	
Commissioning party		Project type	
Installed by		Residence type	
Measured by		Unit type	

## Return

Room	Position	Required [m <sup>3</sup> /h]	Tested [m <sup>3</sup> /h]	Type valve	Settings valve	Settings unit
Kitchen						P30
Bathroom						P31
Toilet						P32
...						P33
...						
...						
Total:						

## Supply

Room	Position	Required [m <sup>3</sup> /h]	Tested [m <sup>3</sup> /h]	Type valve	Settings valve	Settings unit
Living room						P34
Bedroom 1						P35
Bedroom 2						P36
Bedroom 3						P37
...						
...						
...						
Total:						

## Pressure

Measured	Supply [Pa]	Return [Pa]
Press pressure		
Suction pressure		
Total:		

## II Maintenance log

6 months after installation:

Activity	Y1	Y2	Y3	Y4	Y5	Y6	Y7
Replace the filters							
Clean the valves							

12 months after installation:

Activity	Y1	Y2	Y3	Y4	Y5	Y6	Y7
Replace the filters							
Clean the valves							
Inspect and clean the condensation drain							
Inspect and clean the air ducts							
Inspect and clean the casing of the unit							
Inspect and clean the heat exchanger							
Inspect and clean the fans							
Inspect and clean the pre heater filter							

Date	Activity	Initials

6 months after installation:

Activity	Y8	Y9	Y10	Y11	Y12	Y13	Y14
Replace the filters							
Clean the valves							

12 months after installation:

Activity	Y8	Y9	Y10	Y11	Y12	Y13	Y14
Replace the filters							
Clean the valves							
Inspect and clean the condensation drain		■		■		■	
Inspect and clean the air ducts		■	■	■		■	■
Inspect and clean the casing of the unit		■		■		■	
Inspect and clean the heat exchanger		■	■	■		■	■
Inspect and clean the fans		■		■		■	
Inspect and clean the pre heater filter		■	■	■		■	■

Date	Activity	Initials

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