

ComfoControl Luxe



Handleiding
Manual
Manuel
Anleitung

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Introduction 1

This chapter provides general information on the ComfoControl.

1.1. Preface

In addition to this general chapter, this manual consists

- A section for the user, and...
- · A section for the fitter.



Read this manual carefully before use.

- User → Chapters 1 and 2.
- Fitter → Chapter 3.

This manual provides all the information required for the safe and effective installation, set-up and operation of the ComfoControl. It is also intended as a reference work for servicing, so that this can be carried out in a responsible manner. The device is subject to continuous development and improvement. There is therefore a possibility that the ComfoControl differs slightly from the descriptions given.

NOTE

This manual has been compiled with the greatest care. However, no rights can be derived from it. J.E. StorkAir also retains all rights to change the contents of this manual without prior notification.

1.2 **Guarantee and liability**

1.2.1 General

ComfoControl sales and warranty conditions for companies in the metals, plastics and technology industries were deposited with the Clerk of the District Courts of the Hague on the 19th of October 1998, under number 119/1998.

1.2.2 Warranty conditions

The ComfoControl 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 ComfoControl 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 fitter.

The warranty becomes invalid if:

- the warranty period has elapsed;
- parts are used which were not supplied by the manufacturer:
- unauthorised alterations and/or modifications have been made to the unit.

1.2.3 Liability

The ComfoControl has been designed and produced for use in ventilation and cooling systems. Any other application is considered inappropriate use and can result in either damage to the ComfoControl or personal injury for which the manufacturer cannot be held liable. The manufacturer is not liable for any damage derived from:

- Non-compliance with the safety, set-up and operating instructions in this manual.
- The use of components not supplied or recommended by the manufacturer.
- Responsibility for the use of such components lies entirely with the fitter.
- Normal wear and tear.

Safety regulations

Always comply with safety regulations in this manual. Personal injury or damage to the ComfoControl can arise from non-compliance with the safety regulations, warnings, comments and instructions in this manual.

- Only registered fitters are permitted to assemble, fit, commission and set up the ComfoControl, unless otherwise indicated in this manual.
- The ComfoControl must be fitted in accordance with the general and locally applicable construction, safety and installation instructions of the local council, electricity and water boards or other agencies, such as the relevant national home-building association.
- Always follow the safety regulations, warnings, comments and instructions given in this manual.
- Store the manual in the vicinity of the ComfoControl for its entire working life.
- Modifications may not be made to the ComfoControl.

1.3.1 Pictograms used

The following pictograms are used in this manual:



Point of attention.



Risk of:

- damage to the device, or
- personal injury to the user, or
- poor performance of the equipment if the instructions are not followed carefully.

For the user

This chapter describes how to operate the ComfoControl.

Congratulations, you now own a ComfoControl, the touch screen operating panel by J.E. StorkAir for controlling your ventilation and/or cooling system. We wish you every comfort.

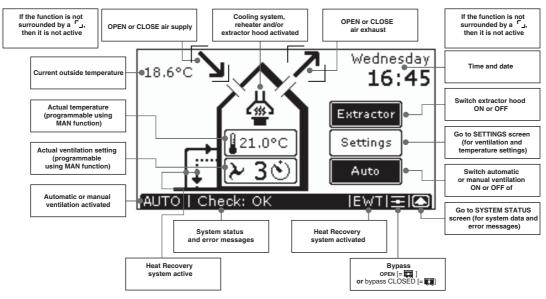
2.1 ComfoControl

The ComfoControl regulates your ventilation and/or cooling system.

The ComfoControl is mounted to the living room wall and communicates with your ventilation and/or cooling system.

The list below briefly explains what information the unit displays.

The ComfoControl display is a touch screen. All settings can be accessed, adjusted and confirmed simply by touching the screen.



2.2 Using ComfoControl

The ComfoControl is used for the following:

- Setting time and date.
- Setting the comfort temperature.
- Setting the ventilation volume.
- Switching the extractor hood on/off.
- Switching the supply and exhaust fan on/off.



If your ventilation system has a chimney cleaning function, you will be unable to switch the supply and exhaust fan on and off.

- Setting a personal ventilation programme.
- Setting a personal temperature programme.
- Setting a time delay for a number of ventilation settings.
- Setting a temperature correction.
- Setting the screen.
- Setting the language.

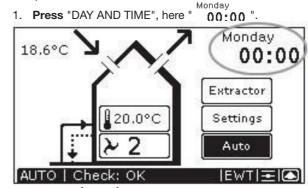
A concise explanation of the above listing is given in the paragraphs below.

2.2.1 Time and date settings

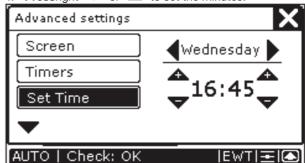
Use the ComfoControl to:

· Set the date and time.

The procedure is as follows:



- 2. **Press** " ◀ " or " ▶ " to set the day.
- 3. **Press**left "▼" or "▲" to set the hour.
- 4. **Press**right "▼" or "▲" to set the minutes.



 Press " X " to confirm the settings and return to the main screen.

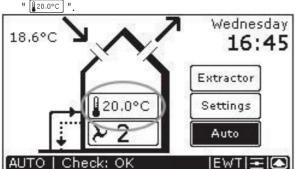


After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

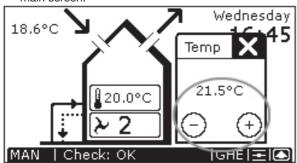
2.2.2 Comfort temperature settings

The procedure is as follows:

1. Press "COMFORT TEMPERATURE". currently



- **Press** " \fill " or " \fill " to set the comfort temperature.
- Press " X " to confirm the settings and return to the main screen.

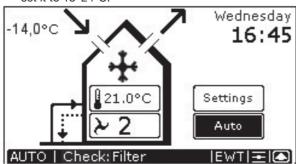


Comfo unit

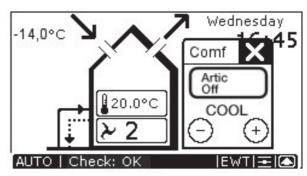
The comfort temperature. Your Comfortunit-equipped ventilation system tries continuously to maintain the temperature of the room in which the operating panel is located at the set comfort temperature.

It may have to open the bypass or activate the active cooling to realize this objective.

The comfort temperature can be set to between COOL and WARM. Between these two parameters, you can set it to 18-24°C.



- When COOL is selected, the system attempts to keep the temperature as low as possible. If conditions allow, active cooling will be activated. Use this setting if you wish to cool the dwelling considerably.
- If WARM is selected, then the active cooling will never be activated and the bypass remains closed. Use this setting when you turn the heating up.
- Your heat-recovery unit is fitted with a system that detects whether it is summer or winter. In the summer, the active cooling can be activated, while this is not desirable under normal winter conditions. All the same, if you wish to use active cooling in the winter, then set the temperature to COOL.



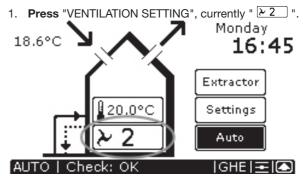
Active cooling can be deactivated. In the screen in which the comfort temperature can be entered, you will see a button that can be set to either "Artic Auto" or "Artic Off". Select "Artic Off" if you do not wish to use active cooling, even if your dwelling gets warmer than the required comfort temperature.



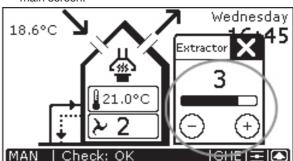
After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

Ventilation volume settings

The procedure is as follows:



- 2. **Press** "🕀" or "🖵" to set the ventilation volume.
- Press " X " to confirm the settings and return to the main screen.





After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

There are 4 ventilation volumes/settings. These are:

- Setting " ➤ Absent.
 - Use when absent.
- " → Low setting Setting " \(\sum 1
 - Use for low ventilation levels.
- " → Normal. Setting " 2
 - Use for normal ventilation levels.
- Setting " ~ 3 " → High setting.
 - Use for cooking, showering and if extra ventilation is required.
- → High setting, with programmed Setting " [> 3 o) " deactivation delay. See § 2.2.8.

- Use for cooking, showering and if extra ventilation is required.

The ComfoControl will display " AUTO " as standard during manual ventilation, and not " MAN ".

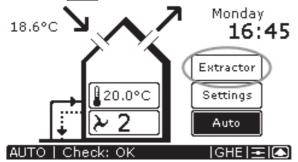
If you wish to reactivate the automatic ventilation setting, then:

Press "AUTO" to return to the automatic ventilation setting.

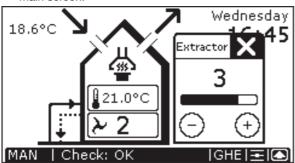
2.2.4 Switching extractor hood on/off

The procedure is as follows:

1. Press " Extractor | " to activate the extractor hood.



- Press "O" or "O" to set the ventilation volume for the extractor hood.
- Press " X " to confirm the settings and return to the main screen.





The extractor hood symbol (" then appears on the ComfoControl display.

4. Press " Extractor " again to deactivate the extractor hood.

Note!

If the extractor hood is fitted with a time-delay switch (see § 2.2.8 for more information about time delay), then it will not switch off immediately, but will continue to run for the programmed time period.



The extractor hood symbol (") disappears from the ComfoControl display once the programmed time delay has run its course.

If the extractor hood is fitted with a time-delay switch (see § 2.2.8 for more information about time delay), then the time delay symbol ("O") will appear on the ComfoControl display in place of the ventilation volume buttons. The extractor hood will be switched off after the programmed number of minutes.

There is ventilation volume (" >) displayed on the ComfoControl is when the extractor hood is activated. Instead, the extractor hood ventilation setting is displayed in the extractor hood symbol. These are:

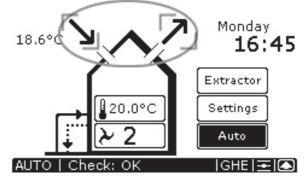
- "are for extractor hood ventilation setting 1.
- for extractor hood ventilation setting 2.
- for extractor hood ventilation setting 3.

If the extractor hood is running, the programmed ventilation setting is displayed in the extractor hood symbol (e.g. "\delta").

2.2.5 Switching the supply and exhaust fan on/off

The procedure is as follows:

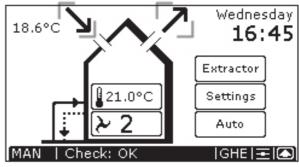
- 1. **Press** " \(\subseteq \) \(\text{v} \) \(\text{to switch off the supply fan.} \)
- 2. **Press** " \(\sigma_{\text{\tint{\text{\tint{\text{\tiliex{\text{\te}\tint{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\texi{\texi{\texi{\texi{\texi}\xi}\text{\texit{\ti}\tint{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\t





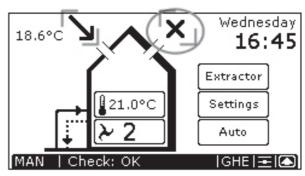
Once the supply and exhaust fans have been deactivated. "X" is displayed on the ComfoControl to indicate they are switched off.

- 3. **Press "X"** by the supply fan symbol to reactivate the supply fan.
- 4. **Press** "X" by the exhaust fan symbol to reactivate the exhaust fan.





Once the supply and exhaust fans have been activated, both "\sqrt{"}" and "\textstyll" are displayed on the ComfoControl to indicate they have been switched on again.





Bear in mind that switching off the supply or exhaust fan will temporarily immobilize your balanced ventilation system.



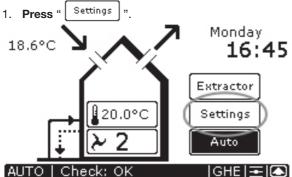
Once the supply or exhaust fan has been deactivated, " AUTO " will no longer be displayed, but " MAN " will appear on the ComfoControl as standard.



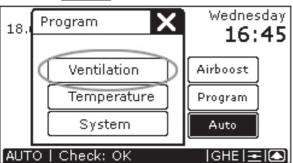
If your ventilation system has a chimney cleaning function, you will be unable to switch the supply and exhaust fan on and off.

2.2.6 Setting the ventilation programme

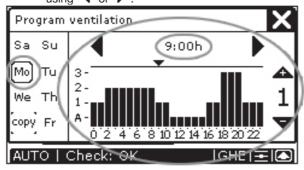
The ventilation volume can be changed/set as follows:



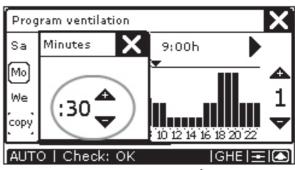
2. Press " Ventilation ".



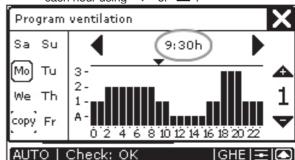
- 3. Setting the ventilation programme.
 - Select day: "Mo", "Tu", "We", "Th", "Fr", "Sa"
 - Select hour, 00:00 to 23:00, using "¶" or "▶"



If required, press the hour, for example: "9:00h", and then select the minutes using "\(\neg \)" or "\(\Delta\)", for example:

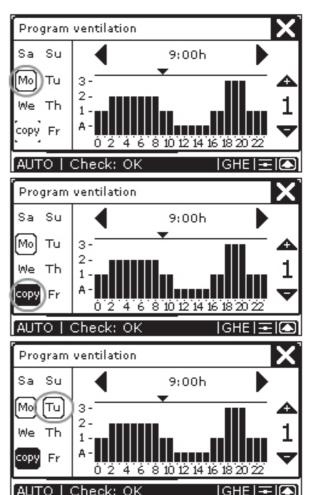


Select the ventilation setting, \mathbf{Q} , 1, 2 or 3, for each hour using "▼" or "▲



If you wish to copy the programmed ventilation setting to the following (or any other) day, then use the "Copy," function. This goes as follows:

- Select the day, for example: "Mo".
- Press " [Copy] "; which changes to " Copy ".
- Select the day to which the ventilation setting is to be copied, for example: "Tu". "Tu" now has the same ventilation setting as "Mo".



4. **Press** " X " to confirm the settings and return to the

main screen.



The programmed ventilation level only works in the AUTO setting.



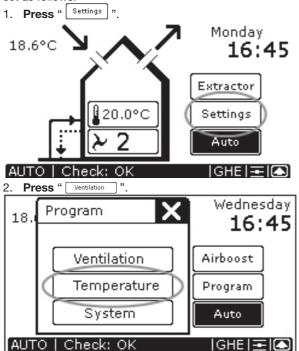
After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

2.2.7 Temperature programme settings

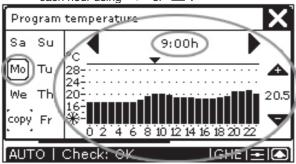
Use the ComfoControl to:

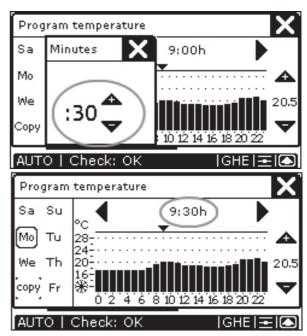
Set a personal temperature programme.

The ComfoControl comes with default temperature settings. If so required, you can change the standard temperature programme to meet your personal temperature requirements. Examples include weekday and weekend programmes. The temperature settings can be changed/ set as follows:



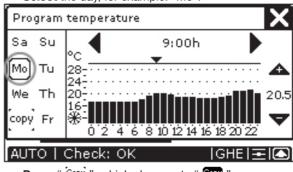
- 3. Setting the temperature programme.
 - Select day: "Mo", "Tu", "We", "Th", "Fr", "Sa" or "Su".
 - Select hour, 00:00 to 23:00, using "◀" or "▶".
 - If required, press the hour, for example: "9:00h", and then select the minutes using "▼" or "▲", for example: "9:30h".
 - Select the temperature setting (12 to 28 °C) for each hour using "▼" or "▲".



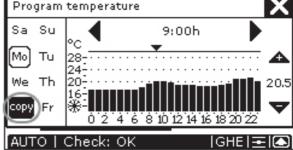


If you wish to copy the programmed temperature setting to the following (or any other) day, then use the " Copy " function. This goes as follows:

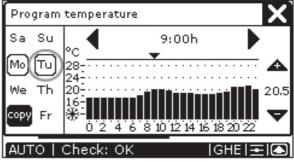
Select the day, for example: "Mo".



Press " Copy "; which changes to " Copy ".



Select the day to which the temperature setting is to be copied, for example: "Tu". "Tu" now has the same temperature setting as "Mo"



4. Press " X " to confirm the settings and return to the main screen.



The programmed temperature level only works in the AUTO setting.



After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

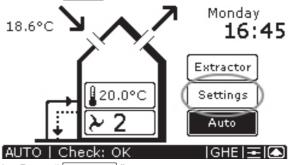
2.2.8 Time delay settings

Use the ComfoControl to:

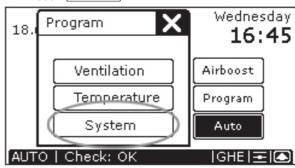
Programme a time delay for certain ventilation set-

The procedure is as follows:

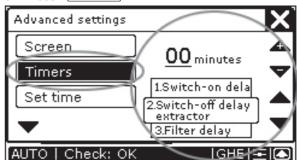
1. Press " Settings "



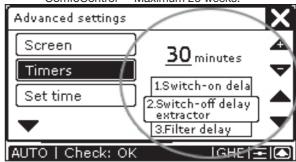
2. Press " System

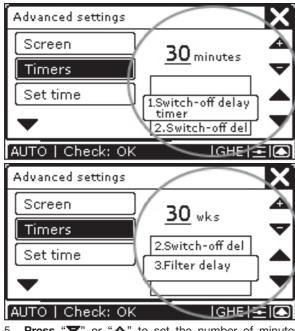


3. Press " Timers



- 4. **Press** "▲" or "▼" to choose between:
 - Time delay for the bathroom off switch
 - → Maximum 120 minutes.
 - Time delay for the extractor hood off switch
 - → Maximum 180 minutes.
 - Delay the "FILTER DIRTY" message on the ComfoControl → Maximum 26 weeks.





- Press "▼" or "▲" to set the number of minutes (weeks) delay required.
- Press "X" to confirm the settings and return to the main screen.



The minimum and maximum time delay for the (ventilation) settings are preset in the software.



After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

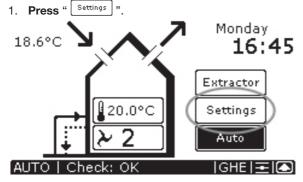
2.2.9 Temperature correction settings

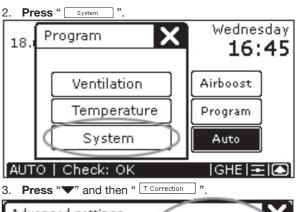
If the ComfoControl is used in conjunction with a heating system thermostat, we recommended synchronizing the temperature for both units on the display.

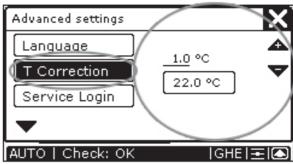
Use the ComfoControl to:

Programme a temperature correction relative to the recorded temperature.

The procedure is as follows:







- Press "▼" or "♠" to correct the °C setting.
- 5. Press "X" to confirm the settings and return to the main screen.

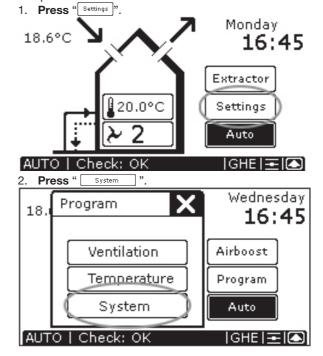
After 30 seconds, the ComfoControl will return to the main menu automatically.

2.2.10 Screen settings

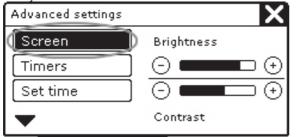
Use the ComfoControl to:

Set the clarity and contrast of the touch screen.

The procedure is as follows:



3. For "BRIGHTNESS" press "-" or "+" to adjust the clar-



- AUTO I Check: OK For "CONTRAST", press "-" or "+" to adjust the
- contrast.
- Press "X" to confirm the settings and return to the main screen.

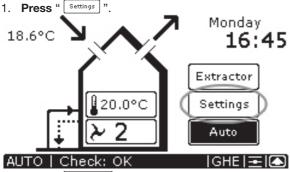
After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

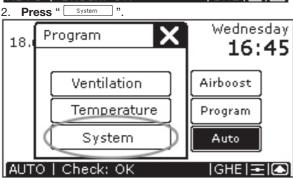
2.2.11 Language settings

Use the ComfoControl to:

Select a language.

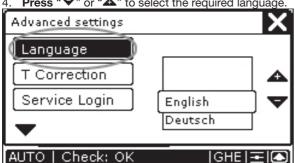
The procedure is as follows:





Press "▼".





Press "X" to confirm the settings and return to the main screen.



After 30 seconds, the ComfoControl will return to the main menu automatically. Your settings have now been saved.

2.3 System data

Certain system information can be displayed on the ComfoControl:

- Error messages.
- Warning to clean or replace the filters.
- Information on the status of your ventilation and/or cooling system.

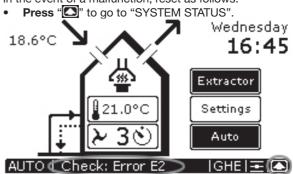
2.3.1 ComfoControl error messages

In the event of a malfunction, the ComfoControl will display the corresponding code.

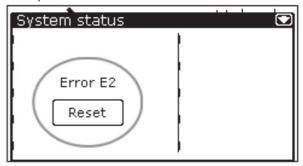
The ComfoControl display will show an 'A' or an 'E', followed by a number.

What to do in the event of a malfunction

In the event of a malfunction, reset as follows:



Press " Reset " to delete the error message, for example "ERROR E2".





Multiple malfunctions will be displayed as a list.



Multiple malfunctions will be displayed in the "SYSTEM STATUS" screen. only "ERROR E2" is currently displayed.

If the same malfunction returns repeatedly, please contact the fitter.

- Make a note of which ventilation and/or cooling system you have.
- Make a note of the error code on the ComfoControl display.

The system should not be unplugged, unless your ventilation and/or cooling system must be taken out of service due to a serious malfunction, or for filter cleaning/replacement or any other compelling reasons. When the unit is unplugged, the dwelling will no longer enjoy mechanical ventilation, and this can lead to problems with damp and mould. For this reason, please avoid switching off your

ventilation and/or cooling system for long periods.

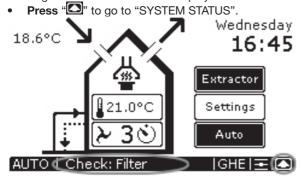
2.3.2 ComfoControl filter warning

If the ventilation system's filters require replacement (or cleaning), then the "FILTERS - REPLACE FILTERS" warning appears on the ComfoControl display.

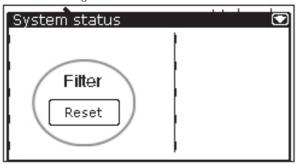


To replace (or clean) any filters, please refer to your ventilation system's user manual.

> Once the ventilation system's filters have been replaced (or cleaned), then follow the steps below to delete the filter warning from the ComfoControl display:



Press " Reset " to delete the "FILTERS- REPLACE FIL-TERS" warning.

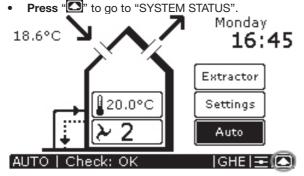


2.3.3 Information about ComfoControl status

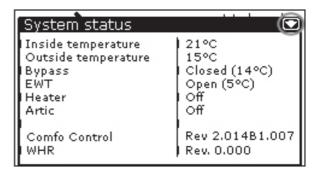
In the absence of error message, you will see:

"CHECK: OK" on the ComfoControl display.

Information on the status of your ventilation and/or cooling system can then be accessed. This goes as follows:



The "SYSTEM STATUS" screen displays all the system data on the ComfoControl.



Press " to return to the main screen.

2.4 End of useful life

Consult your supplier as to what you should do with the ComfoControl at the end of its useful life. If the Comfo-Control cannot be returned to the supplier, avoid disposing of it with the industrial waste, and ask your local council about the options for recycling the components or processing the materials in an environmentally friendly manner.

3 For the Fitter

This chapter describes how to fit the ComfoControl.

Installation conditions

In order to determine whether the ComfoControl can be installed in a certain area, the following aspects must be taken into account:

- The ComfoControl must be mounted 1.5 metres from
- The ComfoControl must be fitted to allow sufficient air to circulate. For example, not behind a cupboard, or in
- The ComfoControl must not be located close to a heat source, such as radiators, TVs, lamps, etc. Direct sunlight must also be avoided.
- The ComfoControl must not be located close to a cold source, such as cold-water pipes or unheated walls (due to poorly heated areas on the other side of the wall), etc.
- The following facilities must be available in the living area concerned:
 - Flush-fit casing for the ComfoControl.
 - 12V DC power supply from the ventilation system.
 - A/B communication cable from the ventilation system.

3.2. Installing ComfoControl

3.2.1 Transport and unpacking

Take care when transporting and unpacking the ComfoControl.



[⊃] Make sure the packing material is disposed of in an environmentally friendly manner.

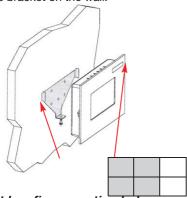
3.2.2 Checking the delivery

Contact your supplier immediately in case of damage or an incomplete delivery. The delivery includes:

- ComfoControl.
- Mounting bracket (fitted to the bottom of the Comfo-
- Connectors (fitted to the rear of the ComfoControl on the PCB).
- User manual.

3.3 Wall mounting

Mount the bracket on the wall.





The bracket has five mounting holes.



If required, the bracket can be fitted to the flushfit casing.

- Connect the ComfoControl to the ventilation system;
- Slide the ComfoControl onto the mounting bracket.
- Fasten the bottom of the ComfoControl with a screw.

3.4 Connection to ventilation system

- Connect the 12V DC cable to the connector.
- Connect the A/B communication cable to the connector.

The wiring diagram can be found at the rear of the ComfoControl:

- Plug the connector into the 12V DC "POWER" fitting on the PCB.
- Plug the connector into the RS 485 "COMM" fitting on the PCB.

Open		Comm		Power		Relay		Relay Temp.Sens	
Therm		RS 485		12V DC		1		2	
*	*	Α	В	-	+	*	*	*	*



The cable specification is: 4 x 0.25 mm² protected (twisted pair).

3.5 Connection to external temperature sensor

Connect the temperature sensor cable to the connec-

The wiring diagram can be found at the rear of the ComfoControl:

- Plug the connector into the "TEMP.SENS" fitting on the PCB.
- **Fit** both jumpers to the PCB at position 1:2 (left).

Jumpers Left: Temp. Senso Jumpers Right: Relay 2									
Op	Open		Comm		Power		Relay		lay np. ens
Therm		RS 485		12V DC		1		2	
*	*	Α	В	-	+	*	*	-	+



The temperature sensor specification is: NTC 10 $K\Omega$ (optional).

The external temperature sensor is optional. The indoor temperature is usually monitored by an internal temperature sensor (in the ComfoControl). However, indoor temperature can also be monitored using an external temperature sensor. This may be because the ComfoControl is to be fitted in a different location than the one to be monitored, for example in the hall. It is also possible that variables in the vicinity of the unit (e.g. wall temperature) could affect temperature readings. An external temperature sensor connected to the PCB in the back of the ComfoControl provides a solution to these problems.

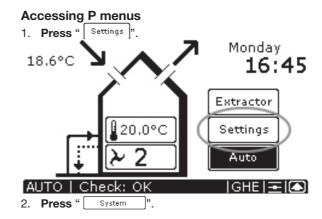
3.6 Commissioning the ventilation and cooling system

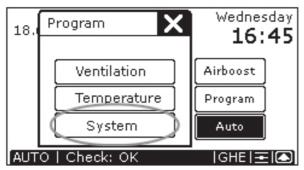
Once fitted, the ventilation and cooling system must be commissioned.

This can be done via the P menus of the ComfoControl. These P menus can be used to enter various settings (and programmes) for the ventilation and cooling system. An overview of the available P menus is given below:

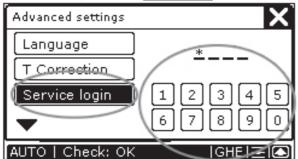


For a list of available settings in the P (sub)menus, please refer to the user manual for your ventilation and/or cooling system.

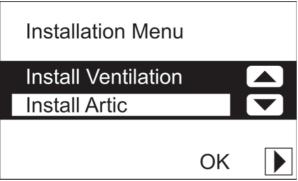




3. Press "▼"; and then " Service login ".



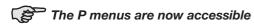
- Press code "3520" to go to the "INSTALLATION MENU".
- 5. **Press** " **A** " or " **T** " to go to:
 - The "INSTALL VENTILATION" menu, or ...
 - The "INSTALL ARTIC" menu.



6. Press "OK" to enter the selected menu.

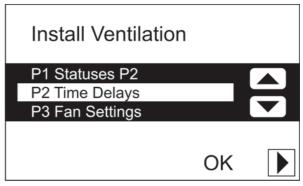
Installation Menu

Install Ventilation
Install Artic

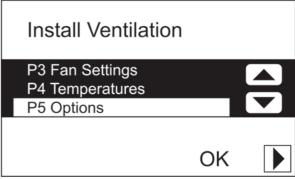


If the Artic cooling system is not connected, the "OK" will not appear on the screen, and the related P menus will not be available.

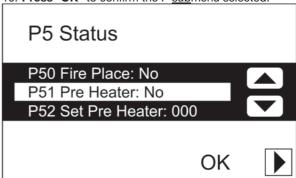
7. **Using** " or " , select the required P menu, e.g. "P5 OPTIONS".



- . **Press "OK"** to confirm the P menu selected.
- Using "
 " or "
 ", select the required P submenu, e.g. "P51 PRE HEATER".



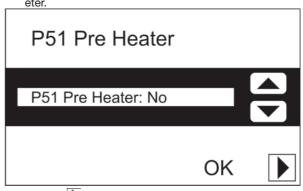
10. Press "OK" to confirm the P submenu selected.



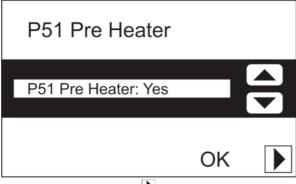
Entering settings in P menus

The procedure is as follows:

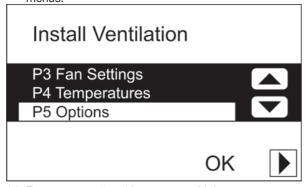
11. **Using** " or " r, select a value for the parameter.



12. Press " To confirm the parameter's new value.



13. If necessary, press " P " again to return to the P



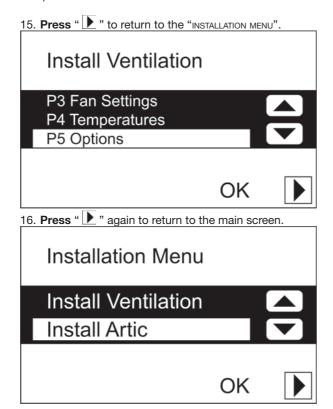
14. Repeat steps 7 to 13 to enter multiple parameters.

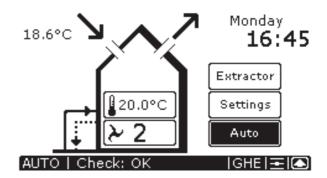


The minimum and maximum values for the available settings parameters are preset in the software.

Returning to the main menu

The procedure is as follows:







After five minutes, the ComfoControl will return automatically to the main screen.



Once parameters have been set in the P menus, the ComfoControl returns almost immediately to the main screen. However, this will take longer after a system reset (see Menu P7), as the system then has to reboot.