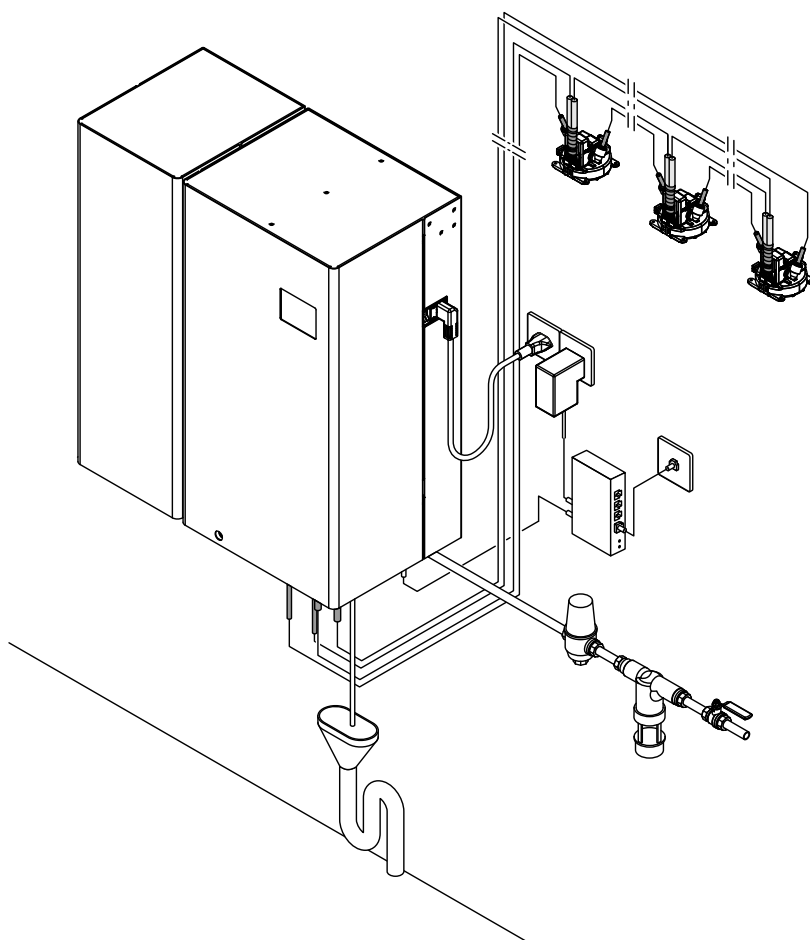




OPERATION MANUAL

Condair MN

Humidification, Dehumidification
and Evaporative Cooling

 **condair**

Thank you for choosing Condair

Installation date (MM/DD/YYYY):

Commissioning date (MM/DD/YYYY):

Site:

Model:

Serial number:

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Contents

1	Introduction	4
1.1	First things first!	4
1.2	Notes on the operation manual	4
2	For your safety	6
3	Operation	8
3.1	Local operation of the system via the control of the central unit	8
3.1.1	Waking up the display	8
3.1.2	Setting the humidification of the individual rooms	9
3.1.3	Service functions	10
3.1.3.1	Restarting the system	11
3.1.3.2	Accessing the fault list	12
3.1.4	Accessing info screen	13
3.2	Remote control of the Condair MN via the Condair Connect App	14
3.2.1	Starting the Condair Connect App	15
3.2.2	Operating the home screen	16
3.2.3	Operating the application screen	16
3.2.4	Settings and functions in the user menu	17
3.2.5	View measurement graph (data history)	18
3.2.6	View maintenance information	19
4	Servicing the system	20
4.1	Notes on service / service intervals	20
4.2	Replacement of the water filter(s)	21

1 Introduction

1.1 First things first!

Thank you for choosing the **Condair MN**.

The Condair MN has been built using state-of-the-art technology and in accordance with the latest safety regulations. However, improper installation and use of the Condair MN may put users and/or third parties at risk and may also cause damage to material assets.

To ensure safe, proper and cost-efficient operation of the Condair MN, please observe and comply with all information and safety instructions in this documentation and in the instructions to the components built into the humidifier system.

Should you have any questions after reading these instructions, please contact your local Condair representative. They will be pleased to help you.

1.2 Notes on the operation manual

Delimitations

The subject of this operation manual is the Condair MN in its different versions. The options and accessories are only described insofar as this is necessary for proper operation of the equipment. Further information on options and accessories can be obtained in the respective instructions.

The information in these operating instructions is limited to the operation of the Condair MN in daily operation and is aimed at the operating personnel of the customer who have been instructed in this work

This operation manual is supplemented by various separate items of documentation (e.g. spare parts list), which are included in the delivery as well. Where necessary, appropriate cross-references are made to these publications in the operation manual.

Symbols used in this manual



CAUTION!

The catchword "CAUTION" used in conjunction with the caution symbol in the circle designates notes in this operation manual that, if neglected, may cause **damage and/or malfunction of the unit or damage to property**.



WARNING!

The catchword "WARNING" used in conjunction with the general caution symbol designates safety and danger notes in this operation manual that, if neglected, may cause **injury to persons**.



DANGER!

The catchword "DANGER" used in conjunction with the general caution symbol designates safety and danger notes in this operation manual that, if neglected, may lead to **severe injury or even death of persons**.

Storage

Please keep this operation manual in a safe place, where it can be immediately accessed. If the equipment changes hands, the documentation must be passed on to the new operator.

If the documentation gets misplaced, please contact your Condair representative.

Language versions

This operation manual is available in other languages. Please contact your Condair representative for information.

2 For your safety

General

All persons tasked to perform work on the Condair MN must read and ensure they have understood the planning and installation instructions as well as the operating manual for the Condair MN before starting work.

An understanding of the content of these planning and installation instructions and the operating manual is a basic prerequisite for protecting personnel from danger, avoiding improper installation and operating the device safely and properly.

All pictograms, signs and markings applied to the Condair MN components must be observed and kept in a clearly legible condition.

Personnel qualifications

All work described in this operating manual may only be carried out by trained and suitably qualified staff **authorised by the operator**.

For safety and warranty reasons any action beyond the scope of this manual must be carried out only by qualified personnel authorised by Condair.

It is assumed that all persons working with the Condair MN are familiar and comply with the appropriate regulations on work safety and the prevention of accidents.

The Condair MN can be used by children aged 8 years and over as well as by persons with reduced physical, sensory or mental abilities or lack of experience and knowledge, if they are supervised by a suitably trained person or have been instructed in the safe use of the device and do understand the resulting dangers. Children must not play with the device. Cleaning and maintenance work must not be carried out by children without supervision.

Intended use

The Condair MN is intended only for direct air humidification of rooms within the specified operating parameters. Any other use without the written permission of Condair is deemed to be improper use and can render the Condair MN hazardous. In the event of improper use, any warranty claim will expire.

Operation of the equipment in the intended manner requires **that all the information contained in this operation manual are observed (in particular the safety instructions)**.

Hazards that may arise from the Condair MN:



DANGER!

Risk of electrocution

The Condair MN's central unit runs on mains power. **If the central unit is open, live parts may be touched. Touching live parts may cause severe injury or death.**

Prevention: the central unit must be switched off and disconnected from the mains power supply (remove the plug from the socket) before the central unit is opened.



Warning!

Risk of contamination of the system

If the Condair MN is switched off, there is a risk of the water supply line and the internal water system becoming contaminated because the water system is no longer flushed regularly.

Prevention: After commissioning the Condair MN must not be switched off. This ensures that the water system is flushed at regular intervals and that contamination is counteracted.

Preventing hazardous operating conditions

If it is suspected that **safe operation is no longer possible**, the Condair MN should immediately **be shut down and secured against accidental power-up. Then, contact the Condair representative**. This can be the case under the following circumstances:

- if components of the Condair MN are damaged
- if the electrical installations are damaged
- if the Condair MN is no longer operating correctly
- if connections and/or piping are not sealed

All persons working with the Condair MN must report any alterations to the unit that may affect safety to the Condair representative.

Unauthorized modifications to the device

No additions or modifications may be made to the Condair MN without the written permission of Condair.

3 Operation

The Condair MN can either be operated locally via the control on the central unit (see [Section 3.1](#)) or remotely via the Condair Connect App (see [Section 3.2](#)). Local operation is given priority over remote control.

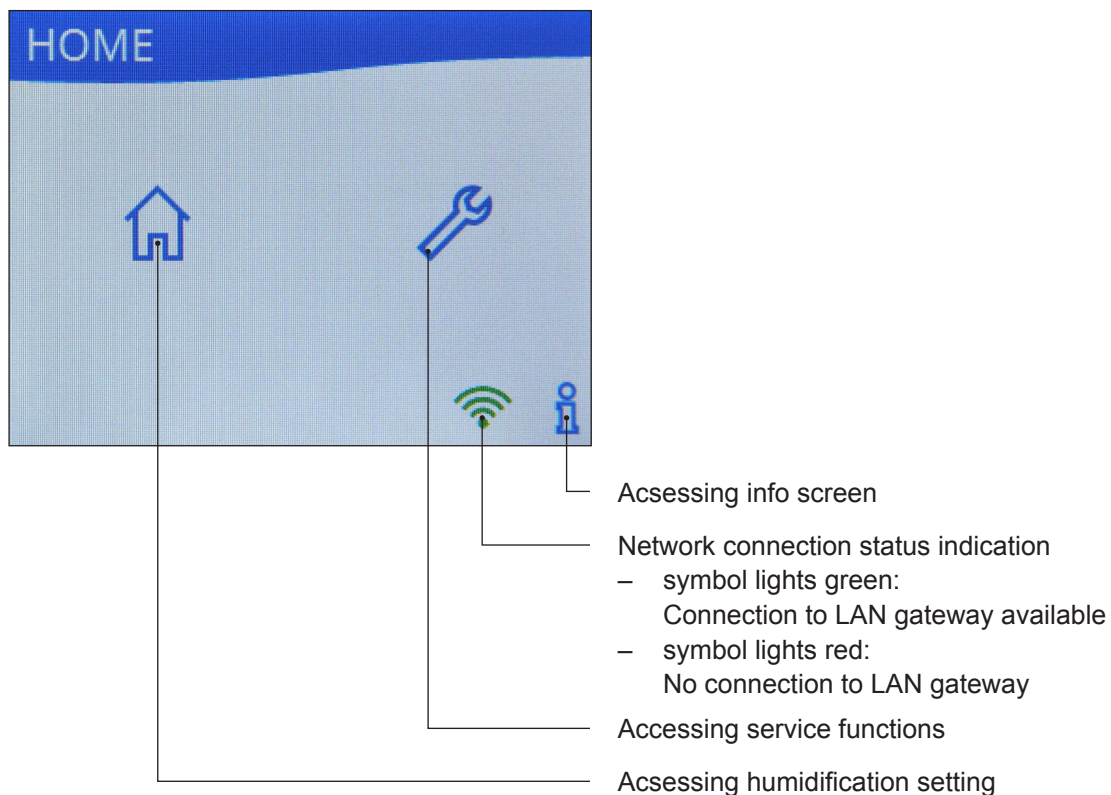
Warning! **Risk of contamination of the system**

After commissioning the Condair MN must not be switched off or disconnected from the power supply. This ensures that the water system is flushed at regular intervals and that contamination is counteracted.

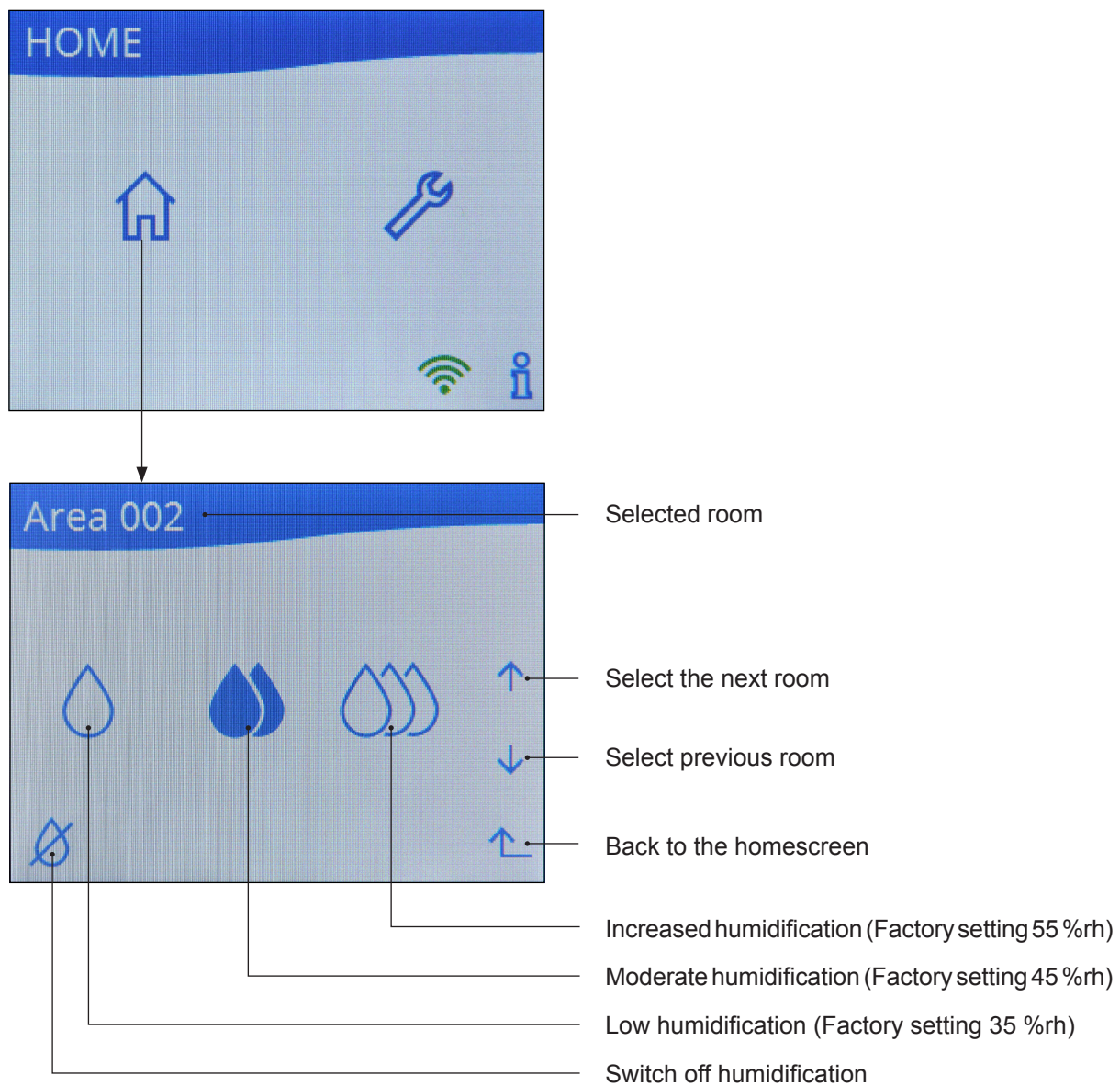
3.1 Local operation of the system via the control of the central unit

3.1.1 Waking up the display

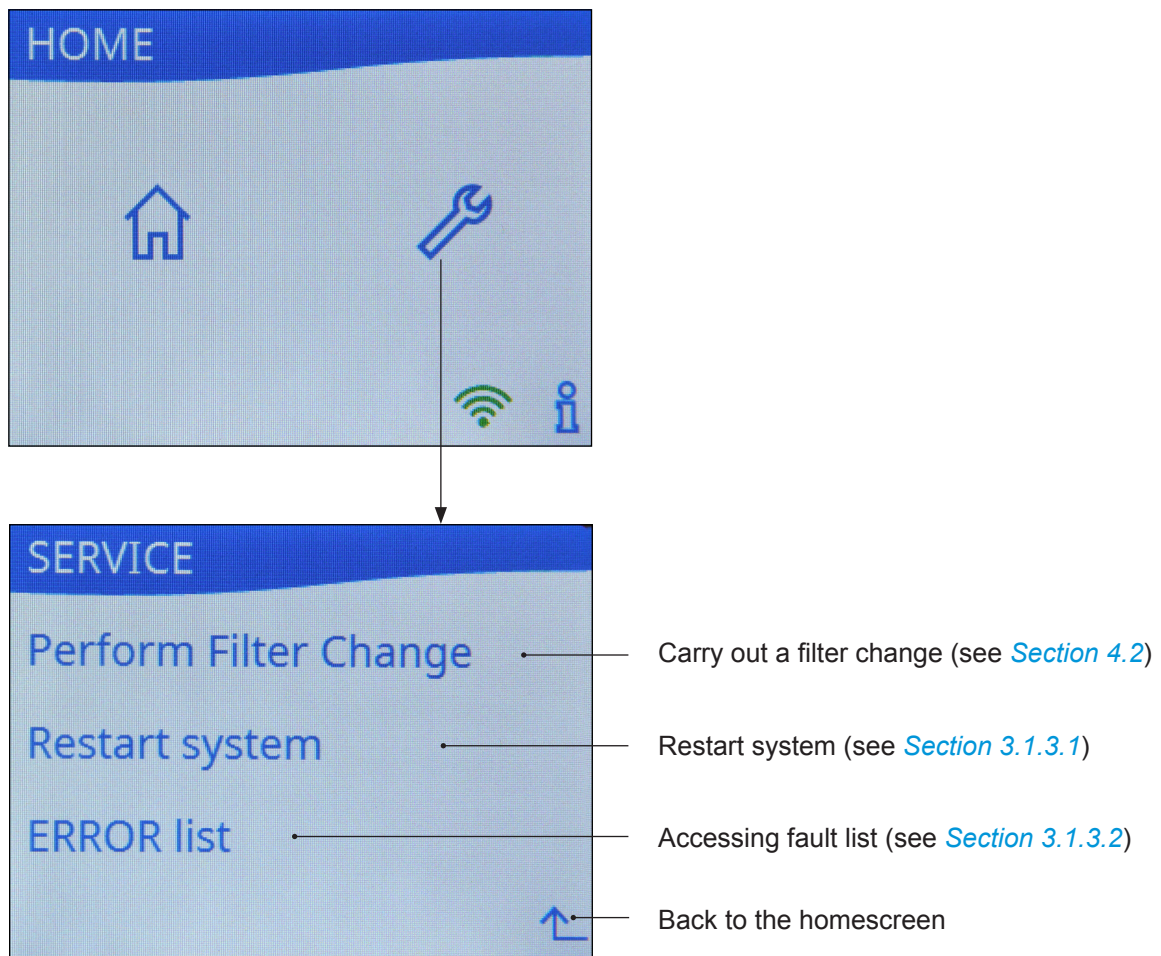
After 30 seconds without operation, the display on the central unit goes out. The display can be reactivated at any time by tapping on it. The homescreen is then displayed.



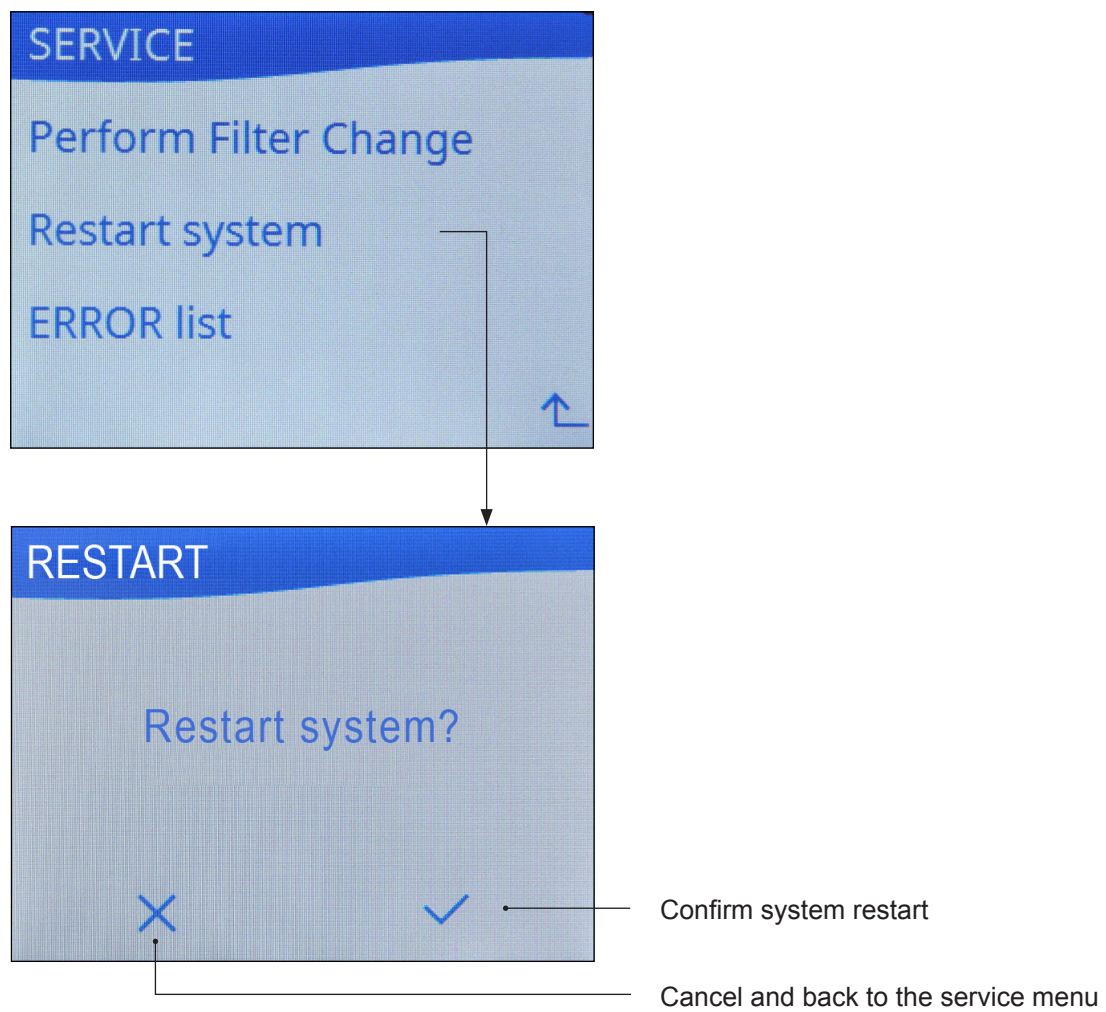
3.1.2 Setting the humidification of the individual rooms



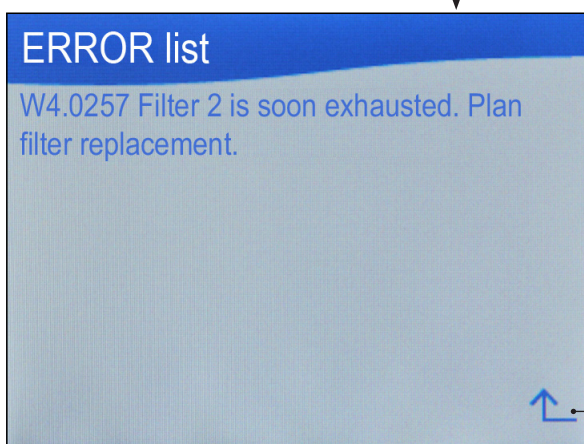
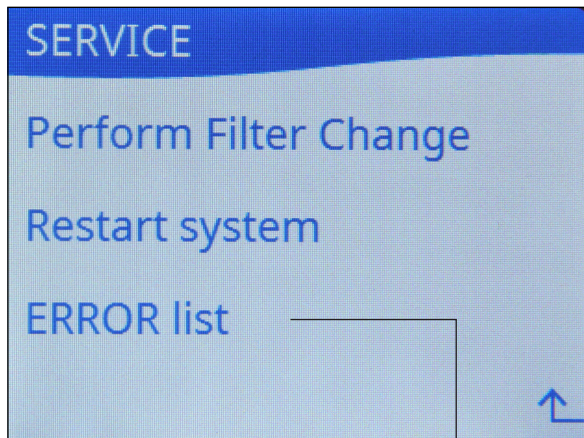
3.1.3 Service functions



3.1.3.1 Restarting the system

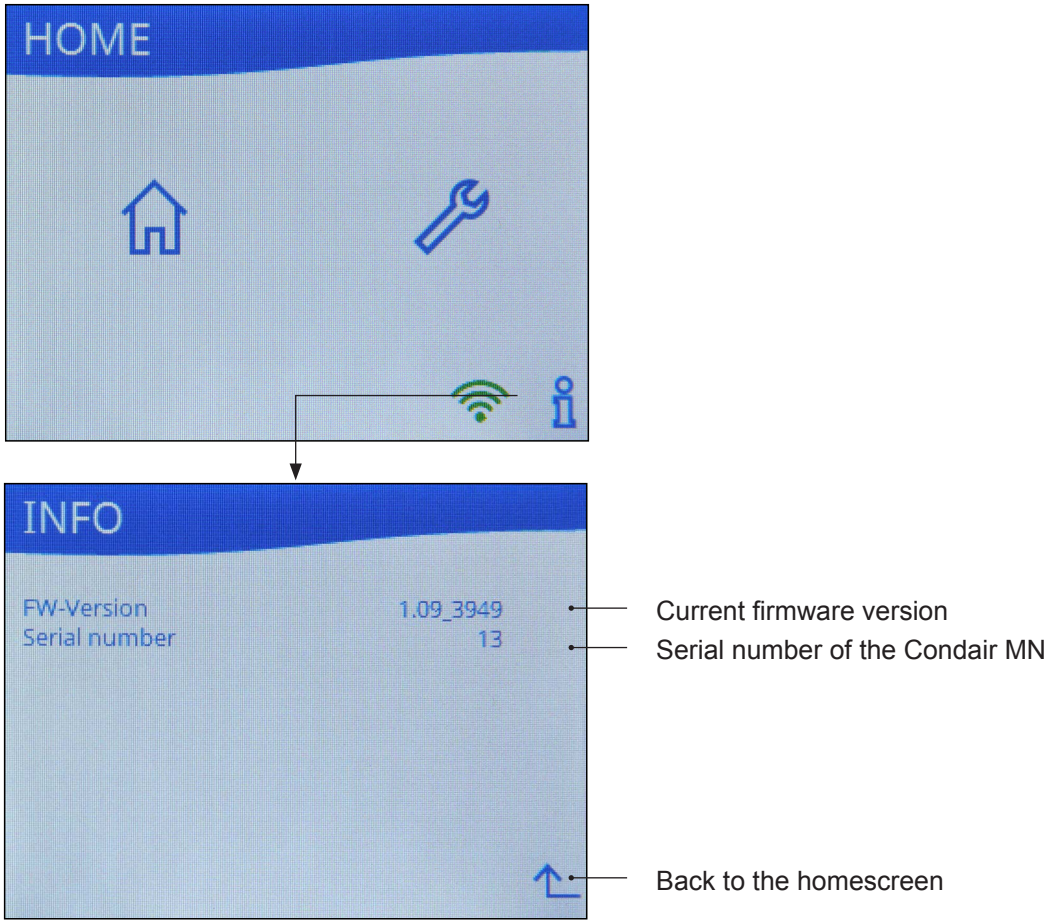


3.1.3.2 Accessing the fault list



Close the window and return to the service menu

3.1.4 Accessing info screen



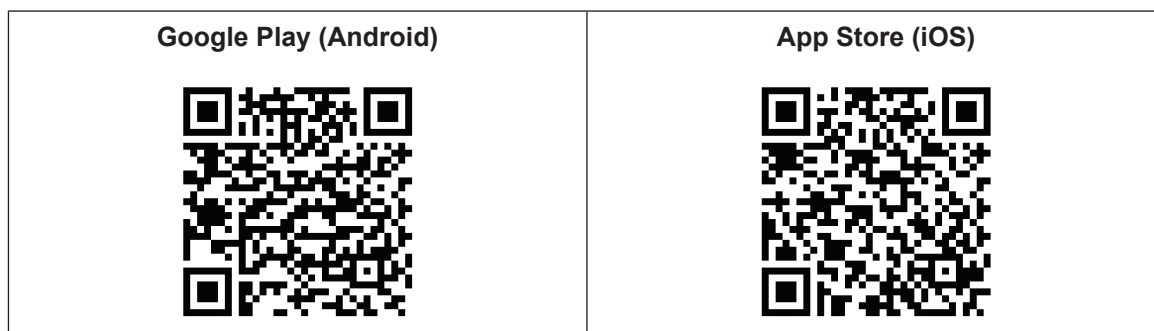
3.2 Remote control of the Condair MN via the Condair Connect App

The following description of how to use the Condair Connect App assumes:

- that when your Condair MN has been commissioned the Condair Connect App was installed on your mobile device and a user account (with your e-mail address and password) was created and that your Condair MN was correctly registered in the cloud and assigned to your user account. If not, please contact your Condair representative
- that the Condair MN is in operation.

If for any reason the Condair Connect App has been deleted from your mobile device or you want to install the Condair Connect App on a new mobile device, proceed as follows:

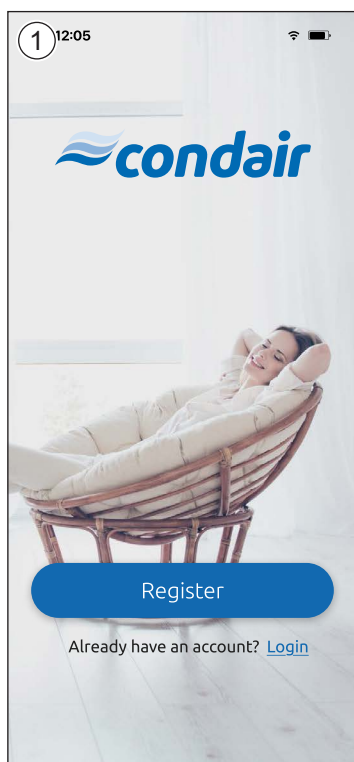
1. Download the Condair Condair Connect App from the App Store (iPhone) or the Google Play Store (Android). Use the camera or QR scanner on your mobile device and take a photo or scan the QR code to go to Google Play (Android) or the App Store (iOS).



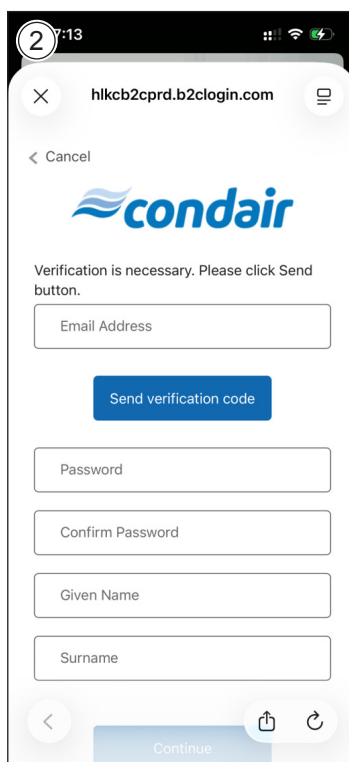
2. Then install the Condair Connect App on your mobile device.

3.2.1 Starting the Condair Connect App

Start the Condair Connect App on your mobile device. The login screen appears.

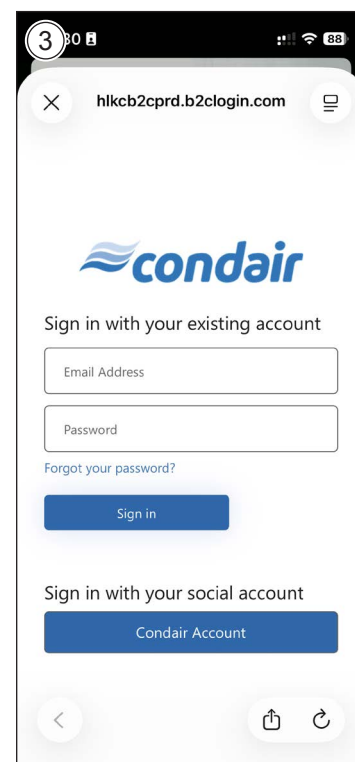


If you do not have a user account yet, press <Register>, otherwise press <Login> and continue with step 3.



The registration screen appears.

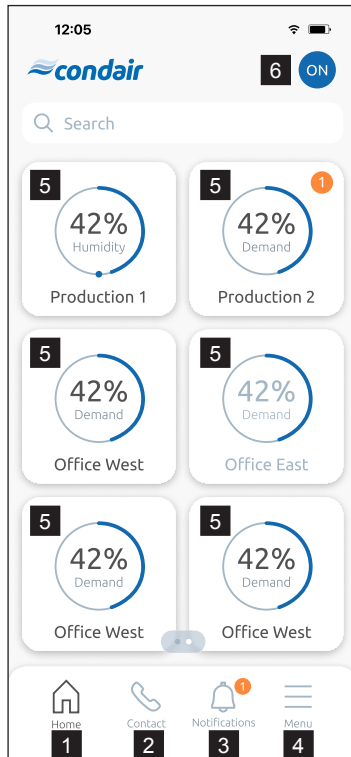
- Enter your email address and press <Send verification code>. You will receive a code at the email address you provided, which you must enter in the field. Then press <Verify code>.
- If the code is correct, enter your first name, last name, and desired password. Confirm your entries by pressing the <Continue> button. The login screen will appear. Proceed to step 3.



Enter your registered email address and password and press <Sign in> to log in to your account.

Note: Note: If you have forgotten the password, press <Forgot password?>. You will then be guided step by step through the process of setting a new password.

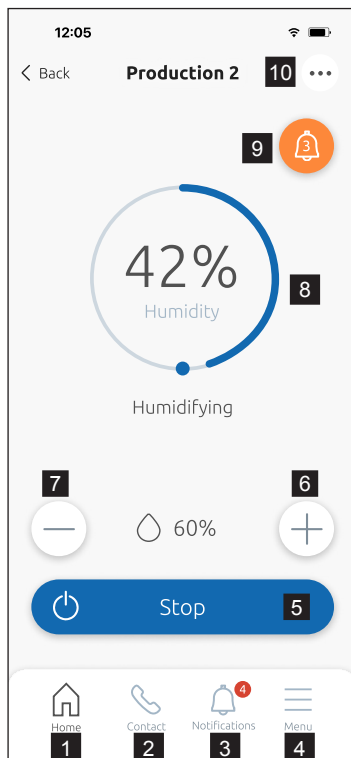
3.2.2 Operating the home screen



- 1 Home: Accessing the home screen
- 2 Contact: Getting in contact with your local Condair representative
- 3 Notifications: Accessing push notifications from your devices
- 4 Menu: Accessing the main menu
- 5 Application tiles: Accessing the Area control
- 6 My Account: Accessing the account settings

3.2.3 Operating the application screen

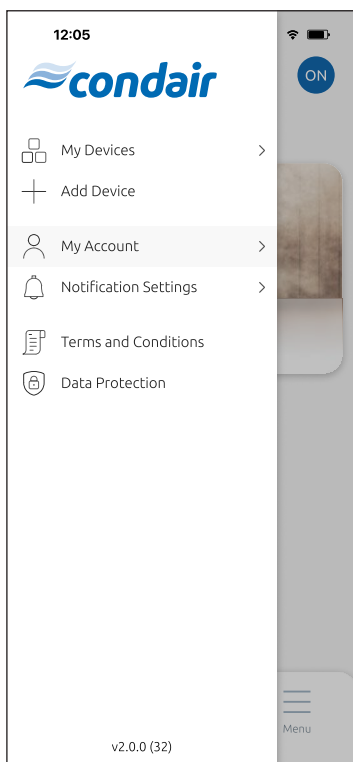
On the home screen, press on an application tile. The application display for the corresponding zone or device will appear. The application display offers the following options:



- 1 Home: Accessing the home screen
- 2 Contact: Get in touch with your local Condair representative.
- 3 Notifications: Access to push notifications from your devices.
- 4 Menu: Accessing the user menu (Device overview, settings, etc.)
- 5 Switching the Condair RH on and off.
- 6 Increase the displayed humidity setpoint.
- 7 Decrease the displayed humidity setpoint.
- 8 Current measured humidity in %rH.
- 9 Notification icon: Appears if a notification is pending (e.g., warning, error, maintenance, etc.).
- 10 Accessing device information and measurement graphs.

3.2.4 Settings and functions in the user menu

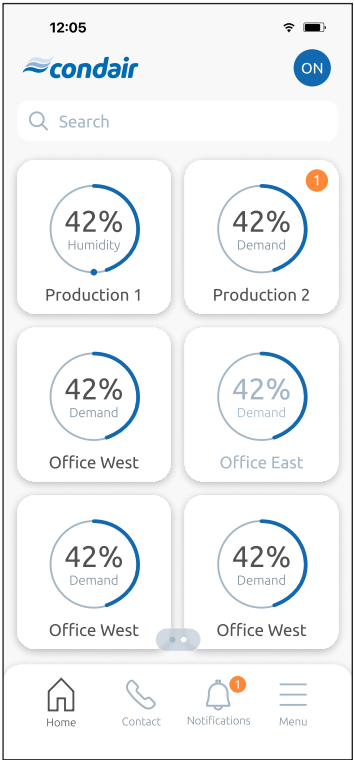
Press **<Menu>** on the home screen. The user menu appears.



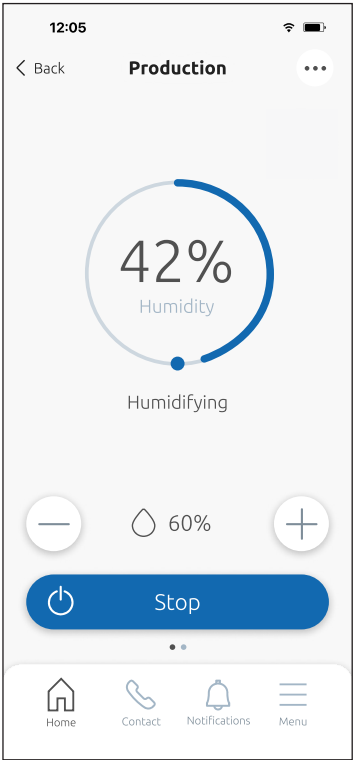
Here you can:

- Under "My Devices"
 - Access the list of devices assigned to your account and then, for each device,
 - view the current device data.
 - access the spare parts shop to order spare parts online.
 - display the maintenance information.
 - change the device's network configuration.
 - change the sensor type used.
- Under "Add Device"
 - Add a new device to your account.
- Under "My Account":
 - Change username.
 - Change the user password.
 - Log out from the Condair Connect App.
 - Delete the user account.
- Under "Notification Settings":
 - Configure your desired settings for email and push notifications.
- Under "Terms and Conditions":
 - View the current Condair terms and conditions.
- Under "Data Protection"
 - View the current Condair privacy policy.

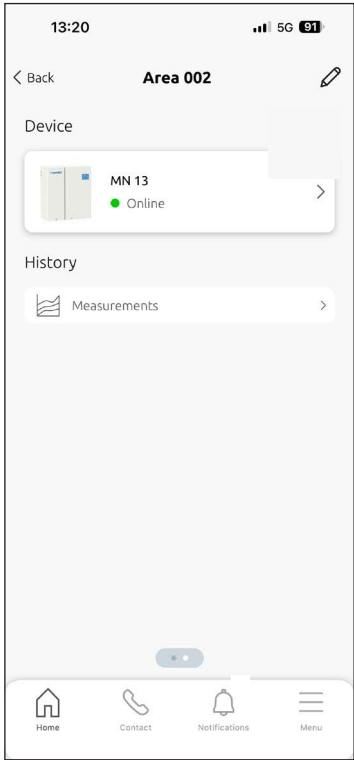
3.2.5 View measurement graph (data history)



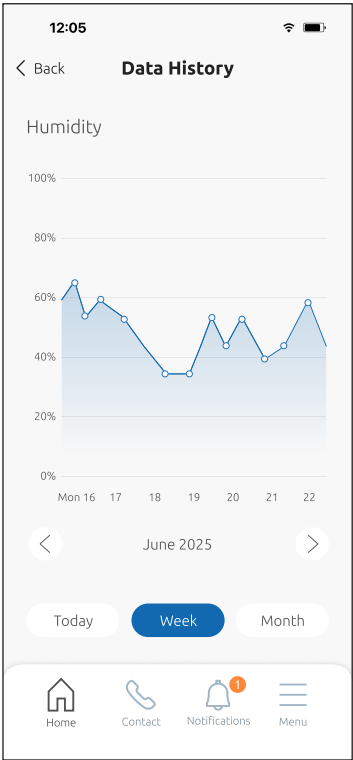
On the home screen, press the application tile for your device (e.g., Production 2).



In the application screen, press the field with the three dots in the upper right corner or swipe left.

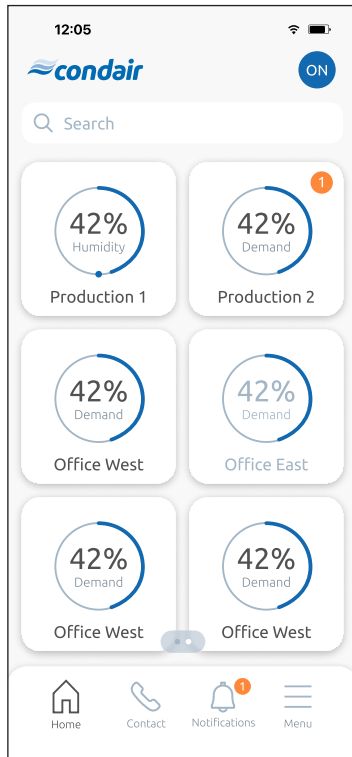


Press the <Measurements> field.

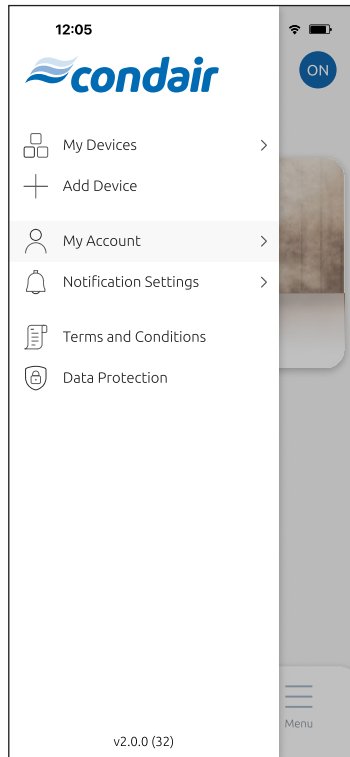


Press the <Today>, <Week> or <Month> button to display the graphical trend of the humidity value in %rH for the current day, week or month

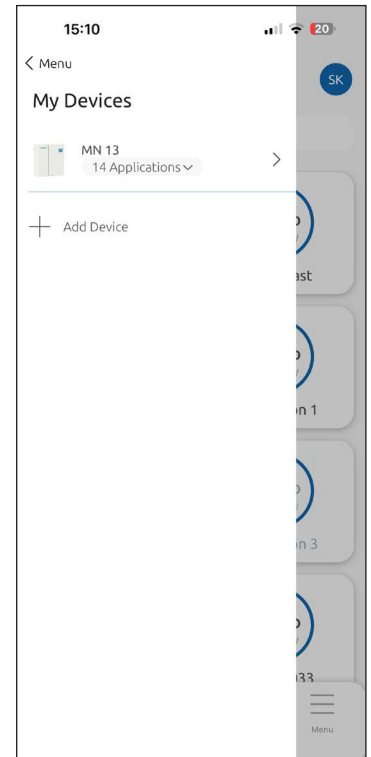
3.2.6 View maintenance information



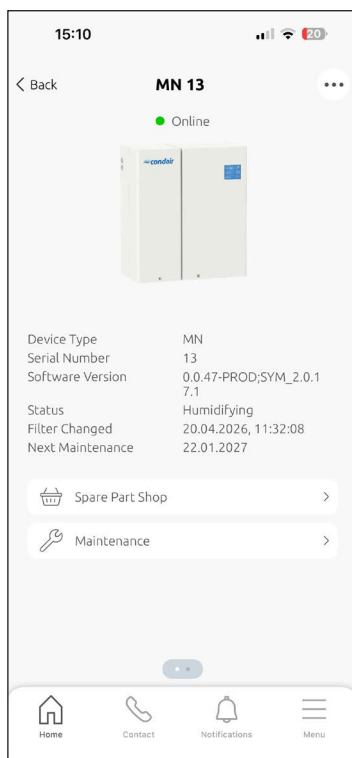
On the home screen, press **<Menu>**.



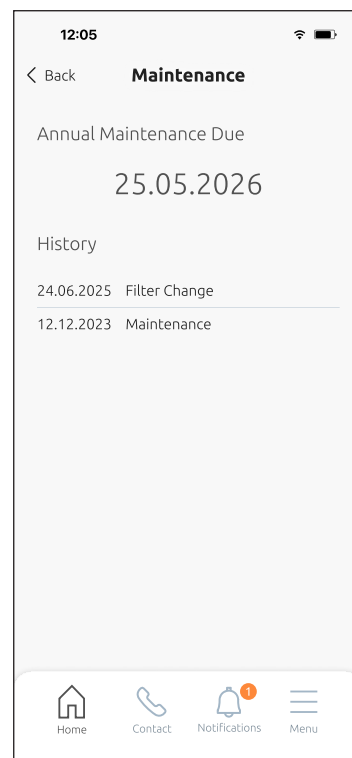
In the menu, press **<My Devices>**.



Select the desired device from your list of devices.



Press **<Maintenance>** to access the maintenance information page.



The maintenance information page displays the maintenance history (completed filter changes and completed maintenance) and the date of the next annual maintenance.

4 Servicing the system

4.1 Notes on service / service intervals

To ensure that the requirements for the hygienic operation of the Condair MN in accordance with VDI 6022, sheet 6 are met, the Condair MD system must be serviced by authorized service specialists at regular intervals. The service is regulated in a corresponding service contract.

- Systems without a certificate: **yearly service**
- Systems with DGUV certificate "Optimized air humidification": **semi-annual service**

For VDI-certified systems, the personnel must meet the following qualifications:

- For general installation, maintenance and inspection work:
Completed training according to **VDI 6022 Sheet 6, Qualification category B**
- For hygiene-relevant work during planning, installation, commissioning, operation and maintenance as well as for hygiene inspections:
Completed training according to **VDI 6022 Sheet 6, Qualification category A**

Condair arranges and carries out the annual or semi-annual service. After completion, the service must be documented in the customer's service log.

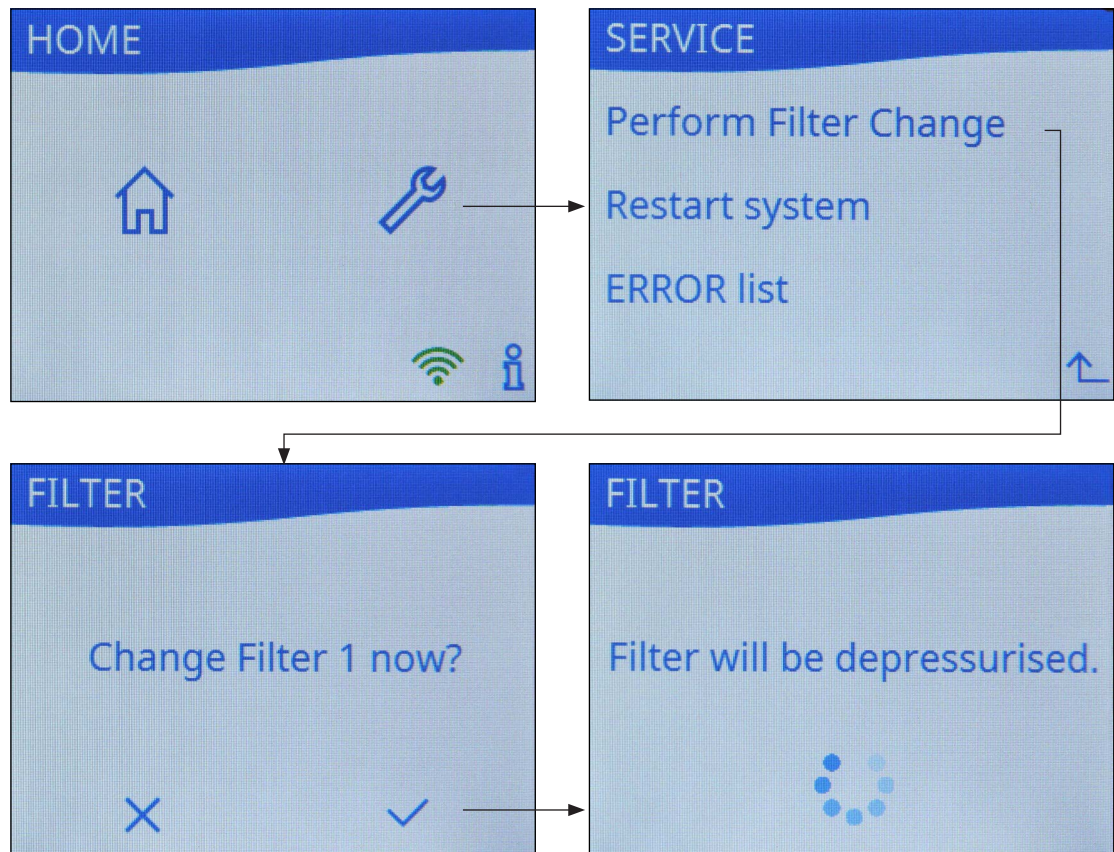
The annual or semi-annual service includes the following work:

- Taking water samples
- Checking of the components
- Checking system functionality
- Replacement of wear parts (if necessary)

4.2 Replacement of the water filter(s)

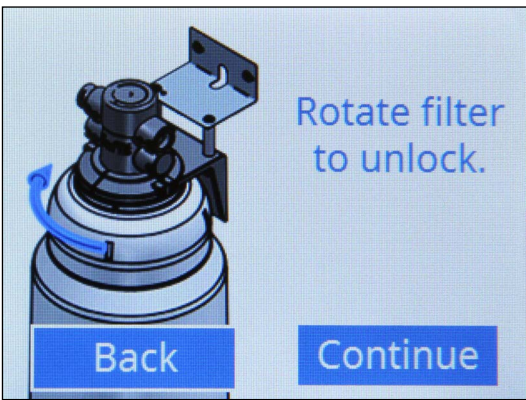
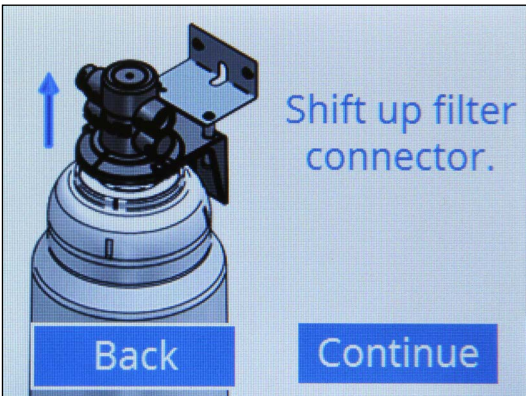
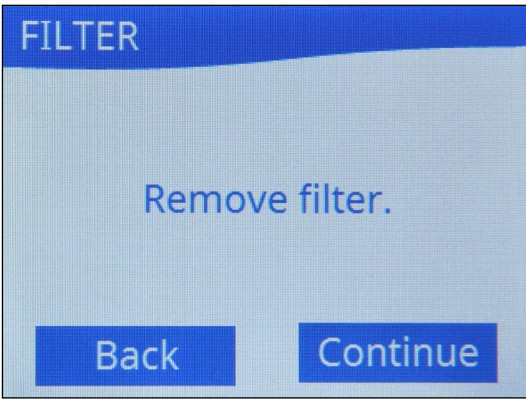
The frequency for replacing the water filter (s) depends on the water quality. The service life of the filters is continuously monitored by the control software of the Condair MN. As soon as the message "Replace filter" appears on the display, the water filter(s) must be replaced. Proceed as follows:

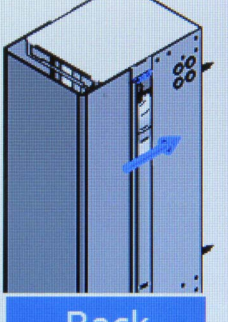
1. In the "Service" menu, select the "Perform Filter change". You will then be asked whether you want to change the filter now. Press the <✓> button. The system is being prepared for the filter change.
Note: If your system is equipped with two filters, the filter change for both filters must be confirmed.

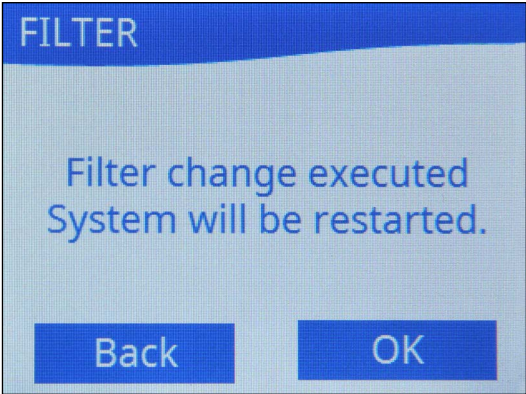
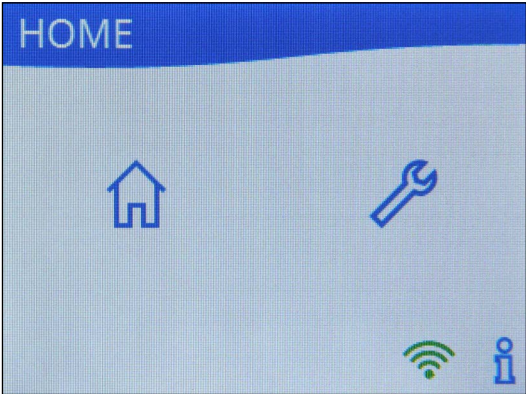


2. You will now be guided through the filter change step by step with corresponding messages and images on the display.

Note: If your system is equipped with two filters, always carry out the respective steps on both filters.

Message	Action
	• If your system is equipped with water filters in the housing, remove the housing lid(s). • Press the <Continue> button.
	• Turn the filter cartridge clockwise until it stops. • Press the <Continue> button.
	• Push the filter adapter upwards as far as it will go. • Press the <Continue> button.
	• Remove the old filter cartridge. • Press the <Continue> button.

FILTER Insert new filter. Back Continue	- Place the new filter cartridge under the filter adapter so that the label faces forward and the notch in the filter cartridge is located under the left groove on the filter adapter. - Press the &ltContinue> button.
 Shift down filter connector. Back Continue	- Push the filter adapter down and at the same time turn the filter cartridge counterclockwise. - Turn the filter cartridge counterclockwise until it stops. - Press the &ltContinue> button.
 Rotate filter to interlock. Back Continue	
 Close filter housing lid. Back Continue	- Reattach the lid(s) of the filter housing(s). - Press the &ltContinue> button.

	• Press the <OK> button. The Condair MN is started and is ready for use again after approx. 20 minutes. The homescreen is displayed.
	

Notes

Notes

CONSULTING, SALES AND SERVICE:



CH94/0002.00

Condair Group AG
Gwattstrasse 17, 8808 Pfäffikon SZ, Switzerland
Tel. +41 55 416 61 11, Fax +41 55 588 00 07
info@condair.com, www.condairgroup.com

