

Zehnder Multi Control with Zehnder EVO unit

Use manual



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1. Introduction



Attention!
Read this manual carefully before use.

This document enables you to operate Zehnder Multi Control safely and optimally. In this document, it may be referred to as the 'device'.

Zehnder Multi Control is subject to continuous development and improvement and may therefore differ slightly from the descriptions provided here.

The following pictograms are used:

Symbol	Meaning
	Important note
	Risk of damage to the system or compromised performance
	Risk of malfunctioning

! Questions

For all questions, updated manuals and information on Technical Assistance Centres, please contact Zehnder.

Contact details:

Zehnder Group Italia S.r.l.

Via XXV Luglio 6 - 41011 Campogalliano (MO)

T +39 059 978 62 00

info@zehnder.it

www.zehnder.it

1.1. Compliance

RED 2014/52/EU - RoHS 2011/65/EU e EU2015/863

EN 60730-1:2011 - EN 60730-9 - EN 62311:2020

ETSI EN 301 489-1 V.2.2.3

ETSI EN 301 489-17 V.3.2.4

ETSI EN 300 328 V.2.2.2.



Pursuant to Article 10 of Directive 2002/96/EC on waste electrical and electronic equipment (WEEE), implemented in Italy by Legislative Decree No. 151 of 25/07/2005, the equipment must be collected separately when the user decides to dispose of it.

For further information, please contact us.

WEEE contribution paid.

EEA registration number AEE IT16070000009433



1.2. Features

Zehnder Multi Control is an easy-to-use, intuitive touch screen that allows you to control the basic functions of the Zehnder EVO ventilation unit via relays, possibly combined with a ComfoDew dehumidifier or a ComfoPost coil with ComfoPost Control.

Zehnder Multi Control can be connected to your home Wi-Fi without any additional components and controlled and updated via the Zehnder Multi Controller app.

Zehnder Multi Control can be installed in a 503 electrical box using the plate and screws provided.

For installation in a 502 or round box (diameter 65 mm), use the adapter accessory code 399000072 for the white version or code 399000214 for the black version.

1.3. Warranty

The manufacturer provides a warranty on the device for a period of 24 months from installation or a maximum of 30 months from the date of manufacture.

Warranty claims can only be made for material defects that occur during the warranty period.

In the event of a warranty claim, the device must not be dismantled or opened without the written authorisation of the manufacturer.

The repair and replacement parts are only covered by warranty if the repair is carried out by an authorised Technical Assistance Centre and if original Zehnder replacement parts are used.

The warranty shall be void if:

- the installation has not been carried out in accordance with applicable regulations;
- the defects are due to incorrect power supply or electrical connections;
- the defects are due to improper use or use in unsuitable environments;
- spare parts not supplied by the manufacturer are used or work has been carried out by unauthorised personnel.

The manufacturer reserves the right to modify the structure and/or configuration of its products at any time without being required to modify previously supplied products.

1.4. Raccomandazioni di installazione

Zehnder Multi Control must be installed by qualified personnel in accordance with current regulations.

Install Zehnder Multi Control at a height of 1–1.5 m on an internal wall, away from sources of heat, cold and humidity that could alter the actual measurement of the room parameters. Do not cover with curtains, furniture or other objects. The installation location must be representative of the environment whose thermo-hygrometric conditions are to be monitored.

Do not use in environments where corrosive substances or vapours, excessive humidity or dust are present

Use a soft cloth for cleaning.

The installation must comply with CEI 64-8/7 2012 guidelines.



Connect Zehnder Multi Control ONLY and EXCLUSIVELY to a 12 VDC power supply. Power supply with alternating current or different voltages will cause irreparable damage to the device.



When connecting the terminals on Zehnder Multi Control, the power supply must be disconnected.



Carefully check that the terminals are connected correctly before supplying power to the device: incorrect power supply to the bus communication terminals (CAN BUS or RS 485) will cause irreparable damage, requiring replacement of the Multi Control.



If there is still work to be completed on site at the time of installation, we recommend wrapping the Multi Control in a protective plastic bag and placing it in its support. Remove the bag only before starting up..

1.5. Zehnder Multi Control with Zehnder EVO units

Zehnder Multi Control can control the basic functions of the Zehnder EVO controlled mechanical ventilation unit via relays, with the option of adding air after-treatment such as a ComfoDew dehumidifier, in combination with a radiant cooling system, or a ComfoPost hydronic coil with ComfoPost Control, which allows heating, cool, dehumidify and exchange air with a single system in buildings with very high energy performance.

The configuration set during the start-up of Zehnder Multi Control can be checked in the user menu, in the "Information" section (see below).

To view of unit errors and for change the parameters, you must use a Zehnder EVO Sense command.



Zehnder EVO units use the last value transmitted via RF as the current value, bypassing the commands sent by Multi Control. It is therefore not recommended to install any controls other than Multi Control. If you still wish to view the parameters and therefore install EVO Sense, it must **always** be left in manual mode and at the first speed, so that Multi Control can fully control the ventilation.

The Multi Control functions available for controlling EVO ventilation units are:

- manual control of ventilation speed;
- switching from manual to automatic mode;
- creation and modification of hourly, daily and weekly programmes;
- display of current operating speed;
- activation/deactivation of boost mode;
- display of a timed filter change alarm inside the Multi Control;
- reset of the timed filter change alarm..



To use Multi Control, a 12VDC power supply/transformer (not supplied by Zehnder) is required.

Zehnder Multi Control must be installed if a Zehnder EVO ventilation unit is combined with a Zehnder ComfoDew or Zehnder ComfoPost Control dehumidifier with Zehnder ComfoPost hydronic coil.

The function of Multi Control is to connect the dehumidifier or ComfoPost Control to the EVO unit, in order to ensure correct operation and, consequently, the supply of air at the desired conditions.

In this case, NO other control for the EVO unit MUST be installed.

1.6. Other functions available on Zehnder Multi Control with Zehnder EVO units

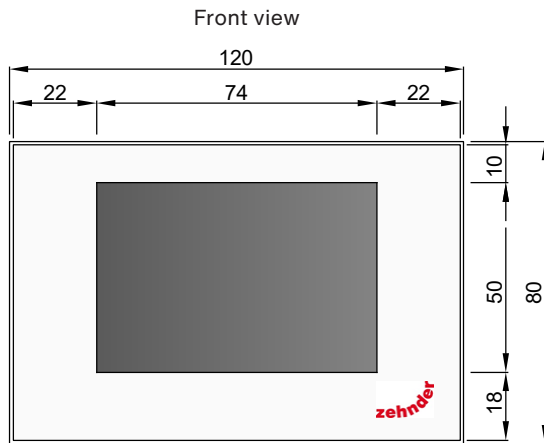
Zehnder Multi Control can also be installed in environments where user action needs to be restricted, such as buildings frequented by the public (e.g. rental accommodation or B&Bs) or where there is a risk of tampering by children: Multi Control allows you to lock all or some of the functions, protecting them with a three-digit password (see the relevant section).

Multi Control can be connected to your home Wi-Fi and controlled via the Zehnder Multi Controller app.

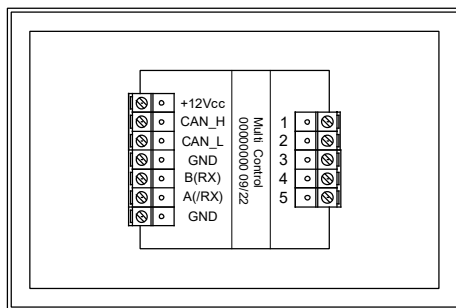


Only Multi Controls with software version 2.0 or later can be connected to the Zehnder Multi Controller app. If your Multi Control has an earlier version installed, you can update the software via Wi-Fi using the Zehnder Multi Controller app. Check the version installed in the 'Settings' - 'Information' menu and refer to the relevant section for the update procedure.

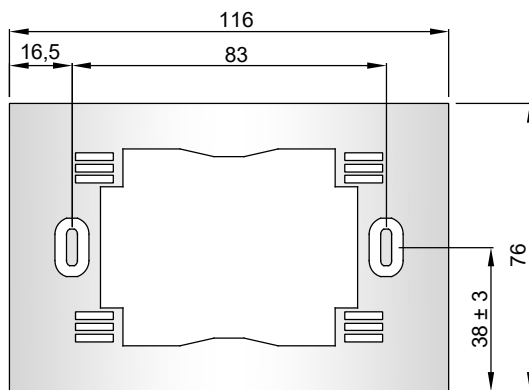
2. Dimensions and general appearance



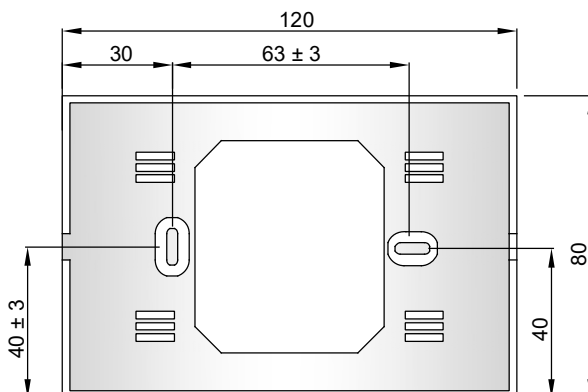
Rear view: connection terminals



Installation plate for electrical box 503

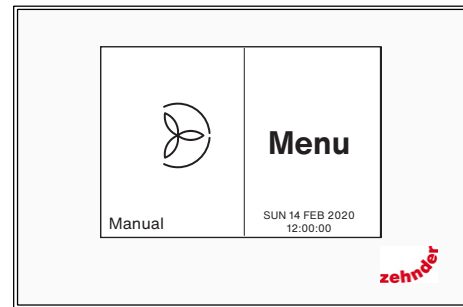


Optional adapter for 502 or round electrical box

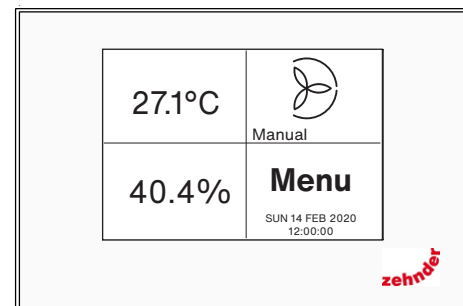


Zehnder Multi Control is a touch screen divided into various sections, two or four depending on the settings.

When divided into two sections, the menu is on the right and the functions related to the ventilation unit are on the left.



When divided into four sections, the temperature and humidity detected in the room are displayed on the left, while the status and functions related to the ventilation unit and the menu are displayed on the right.



If the section is grey, tapping it will not display any options, whereas if it is white, quick function menus or the general user menu will be displayed.

3. Installation

The package contains:

- Zehnder Multi Control, white finish for code 399000200 or black finish for code 399000201;
- quick installation guide;
- plate for installation in electrical box 503;
- two screws.

To install Multi Control on a 502 electrical box or a round box with a diameter of 65 mm, you must order the adapter:

- 399000072 white;
- 399000214 black.

Keep the quick installation guide in a safe place: by scanning the QR code, you can download the complete installation manual.

Installation must be carried out by a qualified installer, who must provide a 12 VDC power supply, bearing in mind that each Multi Control consumes 0.25 mA.



The initial start-up must be carried out correctly and completely. Otherwise, Multi Control may not function properly.

If you encounter any difficulties, please contact your nearest Technical Assistance Centre (www.zehnder.it/it/common/centri-assistenza-tecnica) or Zehnder headquarter.



We recommend updating the Multi Control software to the latest version available before reading this manual and using the device.

Some functions may differ from those described.

4. Zehnder Controller APP and update

4.1. Wi-fi connection

To connect Multi Control to your home Wi-Fi or to a mobile phone used as a router, tap the 'Menu' section.

Scroll down to the 'Settings', "Connectivity" and 'Wi-Fi' menu.

Activate the connection by pressing the 'OFF' button, which turns green and displays "ON". Pressing 'Networks' displays the available Wi-Fi networks.

Select the desired Wi-Fi network, enter the password and press the confirmation button.

If the connection is successful, the message 'Connected: WIFI NAME (000.000.0.00)' will appear.

The number displayed in brackets is the IP address associated with the Multi Control.

From this point onwards, the Multi Control is connected to Wi-Fi.

4.2. Download the Zehnder Multi Controller app

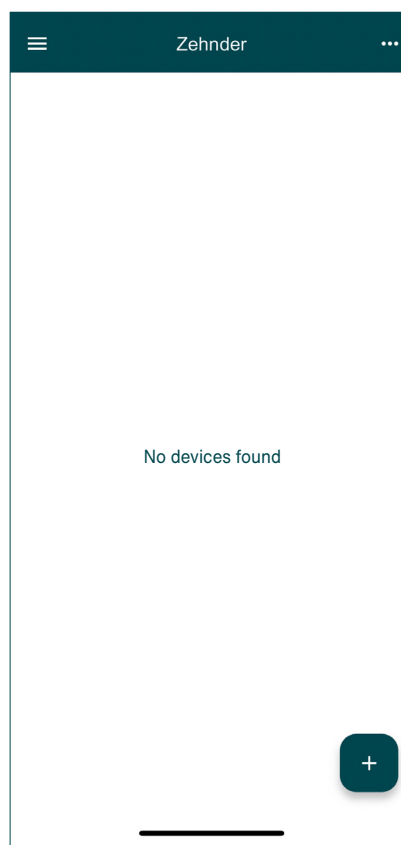
Connect your smartphone to the same Wi-Fi network to which the Multi Control will be connected. This can also be a router shared by another phone if your home Wi-Fi is not available.

Download the Zehnder Multi Controller app, available for iOS and Android devices.

Launch the app and create an account using an existing email address and creating a password..

Log in.

The application initially looks like this:



4.3. Update Multi Control

Connect your smartphone to the same Wi-Fi network to which Multi Control will be connected. Return to the Multi Control device.

Enter the 'Settings' menu, 'Connectivity', select "Update". The message 'Activate update mode? You will need to restart the device' will appear. Press 'Activate'. Multi Control will display the message 'Update mode active - Connected NAMEWIFI (000.000.0.00) - Cloud: Connected'.

At this point, you can update the software.

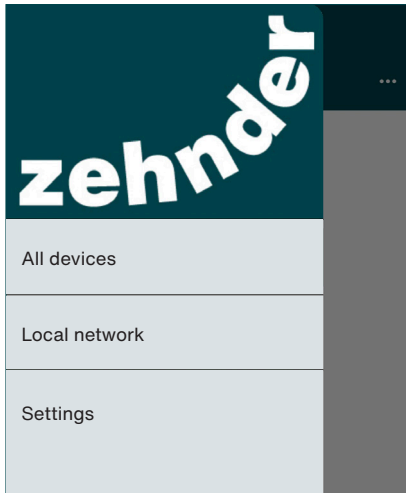


Check that Multi Control and the smartphone on which you are using the application are connected to the same Wi-Fi network (or router). Otherwise, you will not be able to perform the desired operations.

Return to the application and select the three lines at the top left.

Three menus will appear:

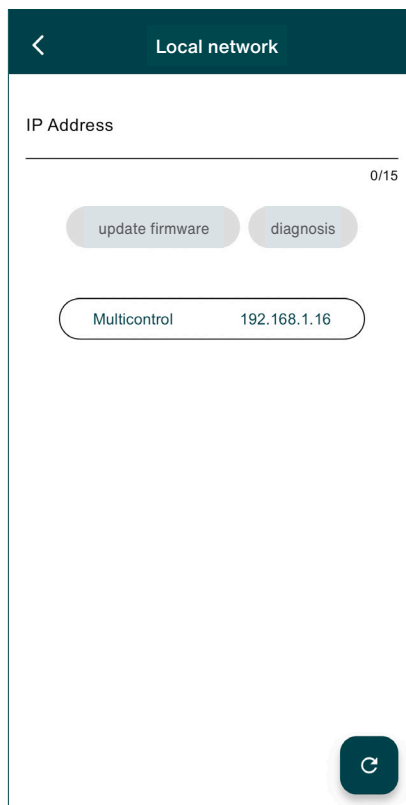
- 'All devices', a list of available devices;
- 'Local network' allows you to view and update all devices connected to the local network;
- 'Settings' allows you to group devices, exit the application and delete your account.



Tap on "Local network". If Multi Control is in update mode and your smartphone is connected to the same network, it will appear on this screen.

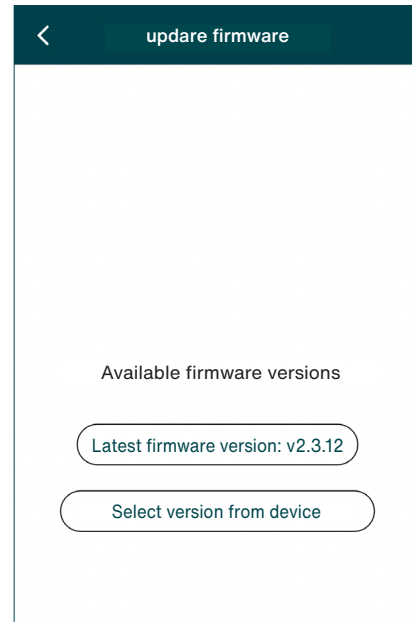
If it does not appear, tap the update button at the bottom right.

If Multi Control still does not appear, try entering the IP address found on the device's update screen.



Select the Multi Control you wish to update.

A list of available firmware versions will be displayed, along with the option to download firmware directly from your mobile device. This latter function is not normally used except in special cases, such as when there is no Wi-Fi or internet connection. Contact Zehnder and they will email you the latest software version, which you can save to your mobile phone, download and update Multi Control by saving it locally.



The update will begin. Progress will be shown on both the app and Multi Control.

When the update is complete, the message 'Firmware update complete' will appear.

On Multi Control, select 'Confirm'. The device will restart and the update will be complete.



If the update fails, the message 'Firmware update failed' will appear on both Multi Control and the app. This is usually due to a poor or unstable Wi-Fi signal, which does not guarantee proper data flow. Try moving Multi Control or using another network.



If you have multiple Multi Controls, we recommend connecting, updating and configuring one device at a time.

You can now start using Multi Control and pair it with the Zehnder Multi Controller app.

4.4. Association with the application

After updating, you can link Multi Control to the app.

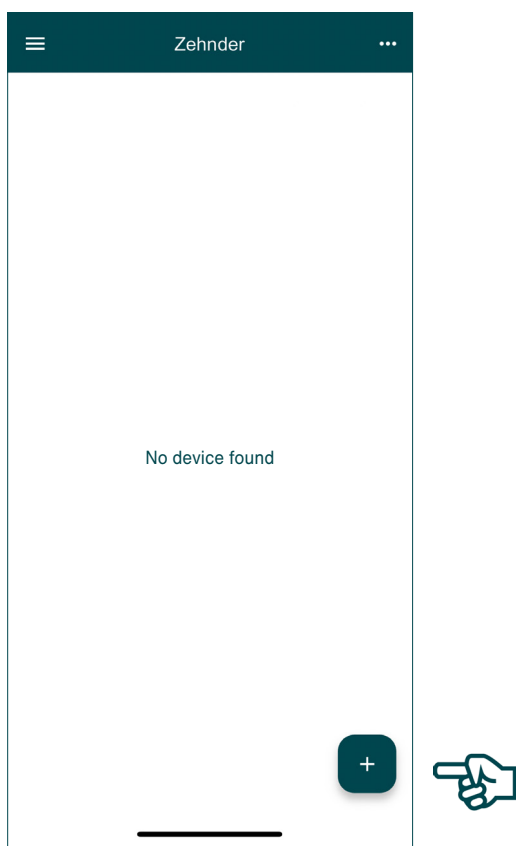
From the Multi Control main screen, go to the 'Settings' menu, select 'Connectivity' and then "Update". The message 'Activate update mode? You will need to restart your device' will appear. Press 'Activate'. Multi Control displays the message 'Update mode active - Connected NAMEWIFI (000.000.0.00) - Cloud: Connected.'

At this point, you can link Multi Control to the app.

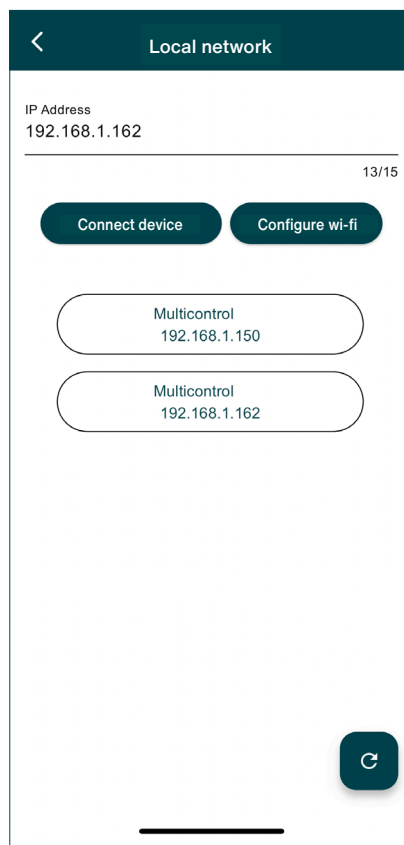


Check that Multi Control and the smartphone on which you are using the app are connected to the same Wi-Fi network (or router). If this is not the case, you will not be able to perform the desired operations.

Return to the app and select the "+" symbol at the bottom right.



A list of Zehnder devices detected on the same Wi-Fi network will appear.



Select the Multi Control you wish to associate.



If no Multi Control is displayed, check that your smartphone is connected to the same Wi-Fi network as the device, and that the device is in active update mode.



If these conditions are met and no Multi Control is displayed, perform the firmware update. Only Multi Controls with firmware version 1.2 or later can be viewed and controlled by the app. To perform the update, see the previous paragraph..



If all of the above conditions are met and no Multi Control is displayed, try entering the IP address found on the device's update screen, or try a different network.

The procedure is complete when the message 'The procedure has been completed successfully' appears. Return to the main screen and refresh it to view the newly associated Multi Control. Repeat the operation for each Multi Control device.



To make it easier to identify the devices, we recommend renaming the newly associated Multi Control before proceeding with a new association.

Once the device has been associated, complete the update procedure on the Multi Control, which will reset and return to the main screen.

From this point onwards, the app's main screen will display Multi Control, which can be controlled directly from the application even when using a different data network to the one Multi Control is connected to.

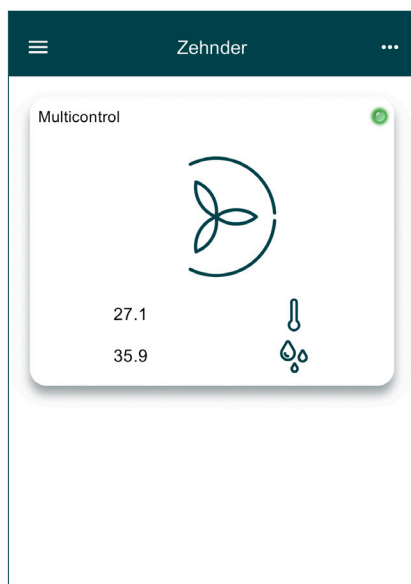


If the indicator on the main screen is green, Multi Control is online, connected and working. If the indicator turns red, Multi Control is no longer online: check that you have a Wi-Fi network connection and that Multi Control is turned on and correctly connected to the network.

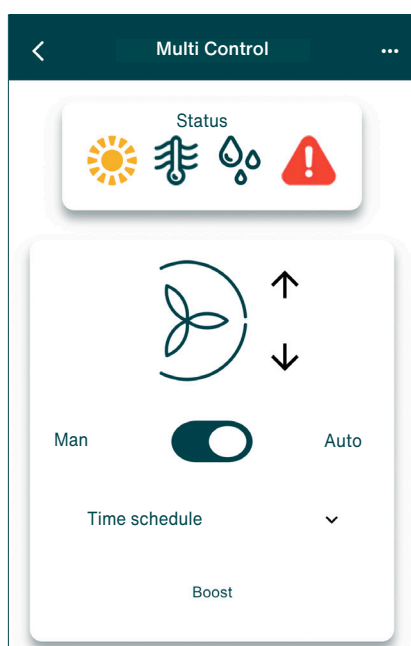
4.5. Assign a name to Multi Control

After pairing Multi Control, you can assign it a name to identify its location or functions, if desired.

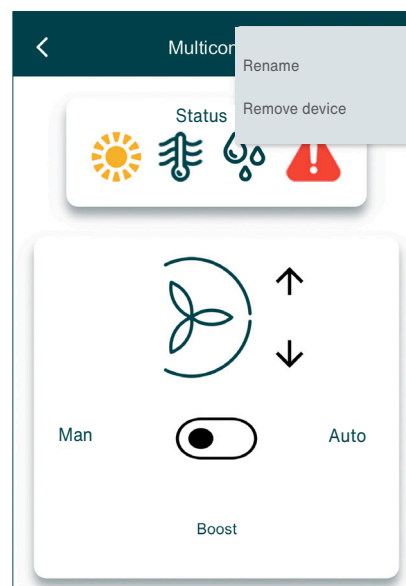
From the main screen, tap anywhere on the rectangle displaying the Multi Control summary information to access the details screen.



From the details screen, tap the three dots in the top right corner.

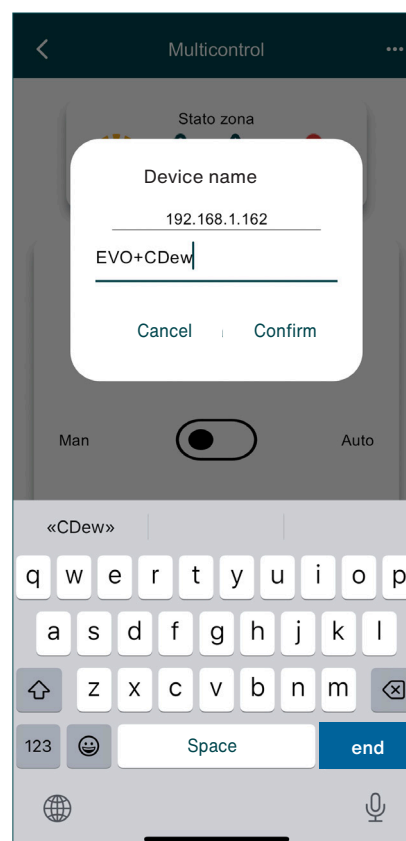


A drop-down menu opens.



Select "Rename" to rename the device.

Assign a meaningful name to Multi Control so that you can always identify it easily.

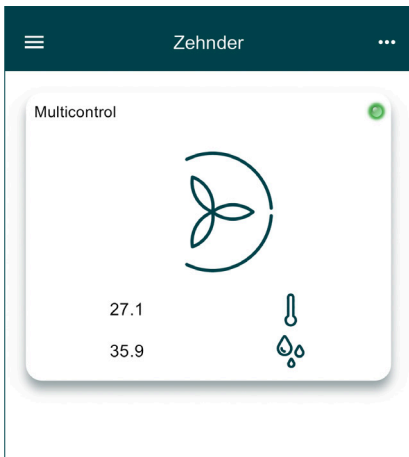


Press 'Confirm' to save what you have entered and assign the new name to the device. Pressing "Cancel" will not confirm the changes.

You will return to the Multi Control details page.

In the drop-down menu, select 'Remove device' to remove the Multi Control from the application.

4.6. Using the app : general appearance and functions



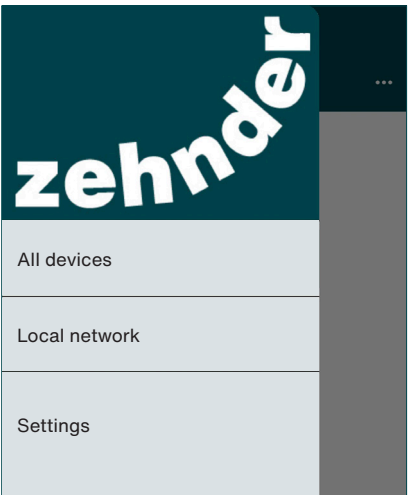
The main screen provides an overview of the Multi Control status. The following symbols are displayed.

Symbol	Meaning
	Multi Control on, connected to Wi-Fi and correctly paired with the app
	Multi Control off, not connected to Wi-Fi or Wi-Fi not available / off
	Ventilation in absence mode
	Ventilation at speed 1
	Ventilation at speed 2
	Ventilation at speed 3 / Boost
	Temperature detected / no active call
	Heating request / hot integration active
	Cooling request / cold integration active
	Humidity detected / no active call
	Dehumidification request active

The temperature and relative humidity measured at the installation site of the Multi Control are displayed.

 **The temperature and humidity displayed on the app may differ slightly from those shown on the device: this is normal and depends on the data transmission time from the Multi Control to the app.**

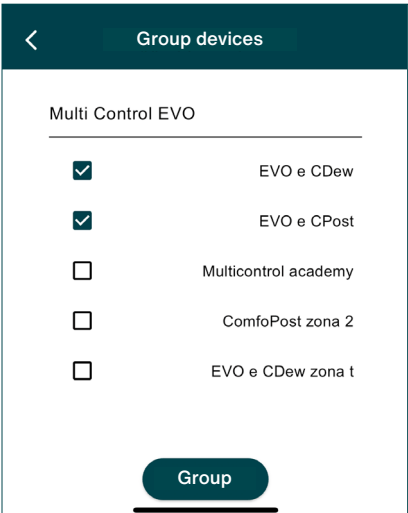
The menu at the top left allows you to update the devices connected to the same network (see previous paragraphs) and use some additional functions.



4.6.1. Grouping multiple devices

You can create groups of Multi Controls to get a more immediate overview by function or by zone.

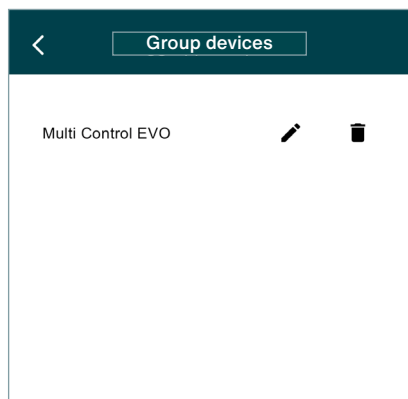
From the menu at the top left, press 'Settings' and then 'Group devices'. Select the Multi Controls you want to group and assign a name to the group.



By pressing 'Group', the group is created and displayed in the drop-down menu. By pressing on the group, ONLY the Multi Controls assigned to it are displayed.



Selecting 'Settings' and 'Group devices' again displays the groups that have been created. You can change their names using the pencil symbol or delete them by pressing the trash can icon.



4.6.2. Log out and delete account

From the 'Settings' menu, you can also log out and delete your account.

4.6.3. Season change

From the app, you can change the season for Multi Control, Multi Control groups or all associated devices together.

 Season change is only available for ventilation units associated with a ComfoDew dehumidifier or a ComfoPost coil.

 The season change only affects the operation of ComfoDew and ComfoPost. It does NOT affect the ventilation unit or the rest of the system (e.g. the heat pump).

 To change the season for all or a group of devices, press the menu in the top right corner. The 'Season change' drop-down menu will appear.

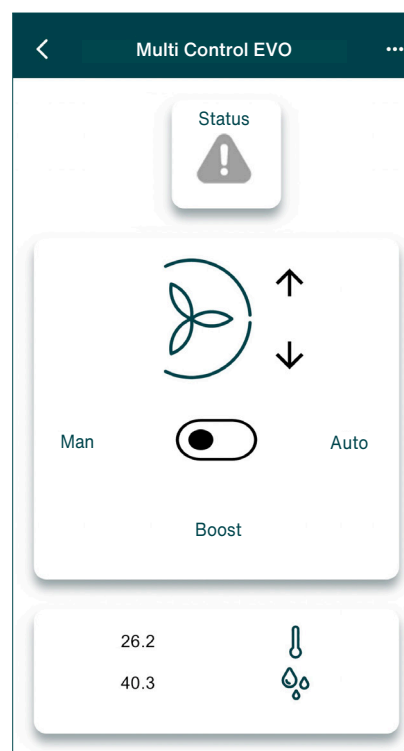
Select the desired season.

If the season change is not successful, an error message will appear. In this case, check that all Multi Controls in the group have the season change set to 'Manual'.

4.7. Use of the application : EVO unit only

The application displays the Multi Controls differently depending on the start-up performed, the type of ventilation unit connected and any post-treatment (ComfoDew or ComfoPost) present and configured.

With Zehnder EVO units, the app can be used to manually change the speed, switch from manual to automatic mode, set time schedules and activate boost mode for a user-defined period of time.



The app transmits the compiled and saved information to Zehnder Multi Control..

4.7.1. Status

The status displays a warning triangle.

When grey, there are no errors. When red, consult the relevant Multi Control. If only the EVO unit is configured, the error indicates that the filters need to be replaced, as 180 days have elapsed.

To reset the error, reset the counter in the 'Filters' menu. See the following paragraphs for more information.



Multi Control cannot receive errors directly from the EVO unit (e.g. fan malfunction or other). Check the unit periodically and make sure it is working properly.

4.7.2. Manual ventilation mode

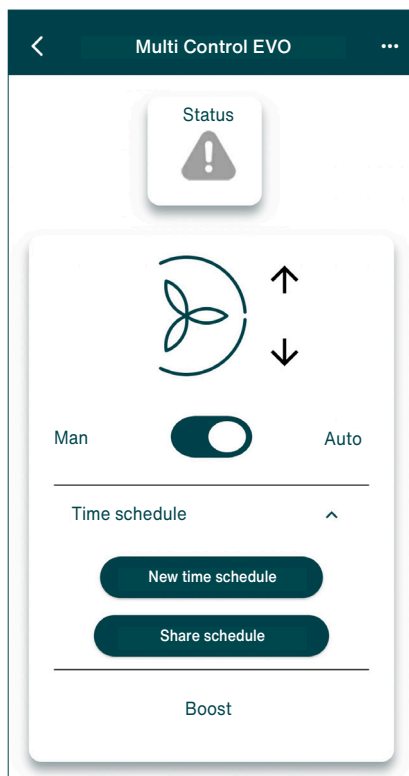
The app allows you to view and change the current speed by raising and lowering it using the up/down arrows.



If ventilation is in automatic mode and is not deactivated, the speed change will be temporary (two hours or until the next time programme). The symbol 'Speed temporarily changed' is displayed - see the following paragraphs.

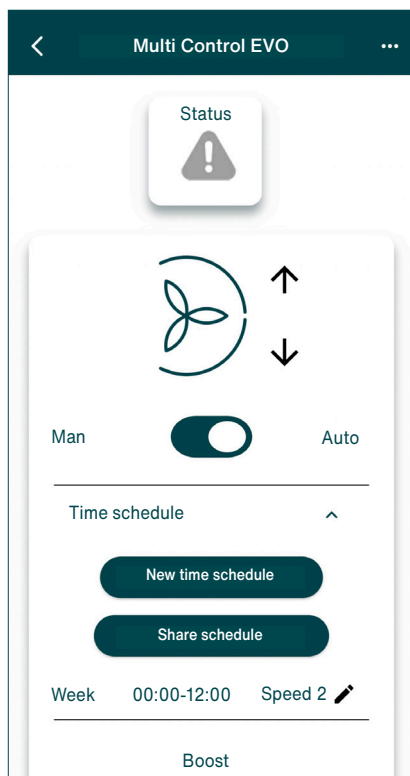
4.7.3. Automatic ventilation mode and time programmes

When automatic ventilation mode is activated, a drop-down menu appears allowing you to set time programmes, view existing time programmes and share time programmes with other Multi Controls.



By pressing 'New time schedule,' you can create up to 10 time schedules, choosing between daily, weekly, holiday (Saturday-Sunday) or weekday (Monday-Friday).

If time schedules exist, they are displayed. By selecting the pencil on the right, you can edit or delete them.



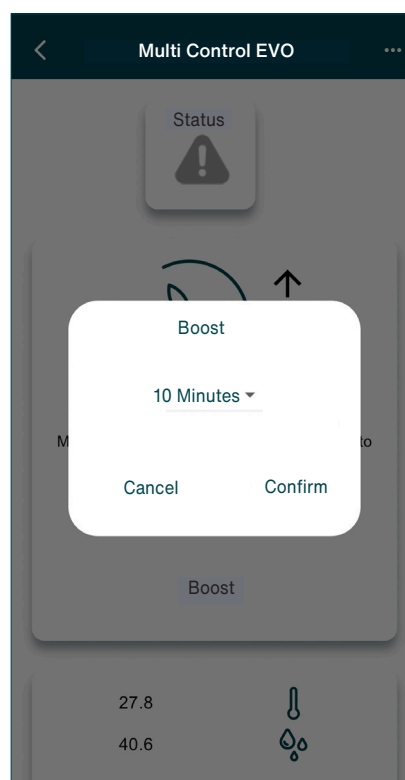
If certain times are not included in the schedule, the unit will run at speed 2. If certain programmes overlap, the shortest programme will take precedence over the longest.

Using the 'Share schedule' button, you can send the hourly schedule you have created to other Multi Controls associated with the same application.

Sharing is only possible if the Multi Control has a function similar to the current one: for example, a ventilation programme is sent ONLY to another Multi Control to which another ventilation unit is connected..

4.7.4. Boost

The Boost function allows you to set the 3 speeds for a selected period, from a minimum of 10 minutes to a maximum of 24 hours.



Both Multi Control and the app indicate the remaining time during which the boost will remain activated. The counter may be offset by a few tens of seconds between the two devices, due to the time required for synchronisation.

4.7.5. Temperature and humidity

The Multi Controller app displays the temperature and relative humidity detected in the environment where the Multi Control is installed.



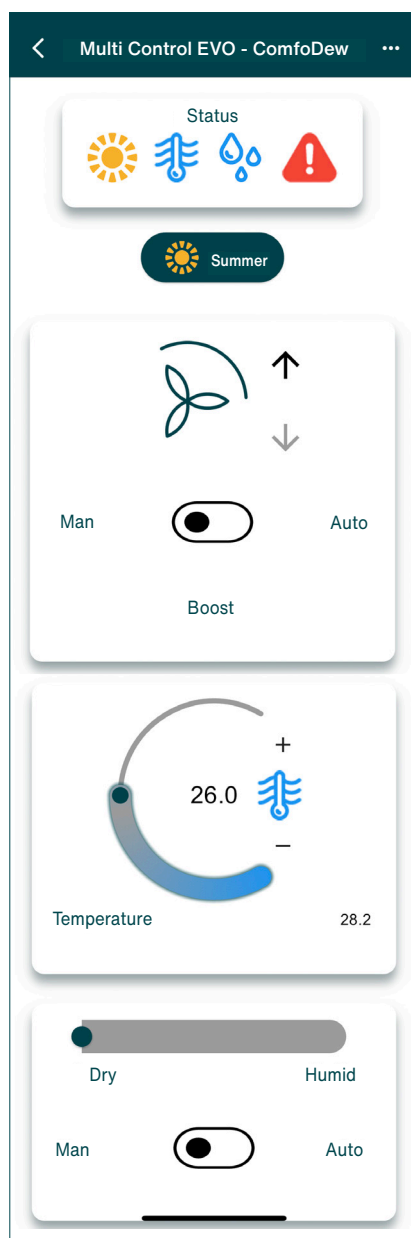
A slight discrepancy is normal, due to the refresh time between the Multi Control and the app.

4.8. Using the app : EVO unit and ComfoDew

The app displays the dehumidifier in addition to the controlled mechanical ventilation.

All the ventilation functions described in the previous paragraph are available, as well as all the functions relating to the dehumidifier described below.

On the main screen, the appearance of the application remains unchanged; however, when selecting a Multi Control to which a ComfoDew dehumidifier is connected in addition to ventilation, the screen will appear as follows:



The first section shows the status of the Multi Control, then the season change button (if in 'manual' mode on Multi Control, see paragraphs below), the second section shows the ventilation status, the third shows the integration setpoint (heating or cooling depending on the season) and the fourth concerns the operation of the dehumidifier.

4.8.1. Multi Control status

The operating status of the Multi Control is displayed at the top of the screen. This section is for display only.

The following table lists the symbols that can be displayed and their meanings..

Symbol	Meaning
	Current season: summer
	Current season: winter
	Integration not active (summer/winter)
	Cold integration active (season: summer)
	Hot integration active (season: winter)
	Dehumidification off (summer/winter)
	Dehumidification on
	No errors present
	One or more errors present: see on Multi Control

4.8.2. Season

The season change button appears only and exclusively if the season change mode is set to 'Manual' on the Multi Control (see the relevant section 'Season change').

Pressing the "Winter" button changes the season to 'Summer' and vice versa.



If the season change mode is automatic, the button does not appear and the current season cannot be changed via the app.



It is important to set the current season correctly because it determines how the dehumidifier operates.



The operation of the ventilation unit is NOT affected by the season change on Multi Control.



The season change only affects the selected Multi Control. The rest of the system (e.g. the heat pump) is not affected by the season change on Multi Control.

4.8.3. Ventilation unit

The ventilation section works in the same way as described above: for more info, check out section 4.6.

4.8.4. Temperature section

The temperature section allows you to set a setpoint temperature for the environment in which the Multi Control is installed.

If integration is enabled in the dehumidification section of Multi Control (see the following paragraphs for more information), ComfoDew contributes to reaching the setpoint temperature set on Multi Control or on the app.

4.8.5. Dehumidification section

In the last section, you can control certain parameters relating to the operation of the dehumidifier.

Multi Control has a standard activation point for the dehumidifier of 11 g/kg of absolute humidity detected in the installation environment, corresponding to 26°C - 52% RH. If you want a more dehumidified environment, press the circle in the centre of the blue bar and drag it to the right; conversely, if you want a higher activation setpoint, drag it to the left.

Symbol	Setpoint	T/RH value
 Dry Humid	Dry	26°C - 45% U.R.
 Dry Humid	Standard	26°C - 52% U.R.
 Dry Humid	Moist	26°C - 57% U.R.

You can then choose how the dehumidifier operates: in manual mode (activated when necessary depending on the humidity levels detected) or automatic mode, according to daily or weekly programmes, in the same way as for ventilation (see paragraph 4.6).

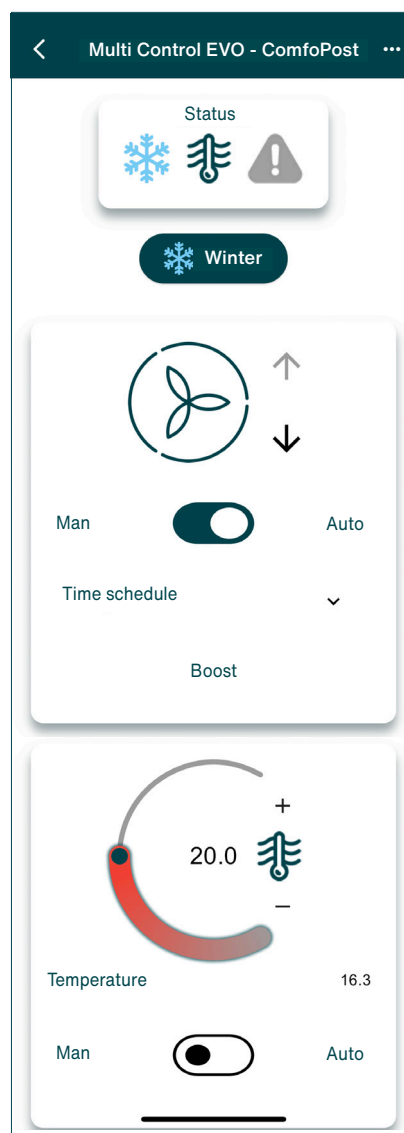


It is strongly recommended to always leave the dehumidifier in manual mode. Otherwise, the dehumidifier will only activate at the times set in the various programmes, with the risk that, outside these times, the dew point will be exceeded and the radiant panel heads will close.

4.9. Using the app : EVO unit and ComfoPost

When a ComfoPost battery with ComfoPost Control is connected to the Multi Control, the app allows you to monitor air exchange, heating and cooling.

On the main screen, the app looks the same; when you select a Multi Control to which the post battery is connected, in addition to ventilation, the screen will look like this:



In the upper section, you can view and control the ventilation unit in the same way as described above. In the lower section, you can set the setpoint temperature by moving the slider on the semi-circular selector. The set temperature is displayed in the centre.

Immediately below is the temperature measured at the Multi Control installation point.

Finally, you can select manual or automatic operating mode and set daily or weekly schedules.

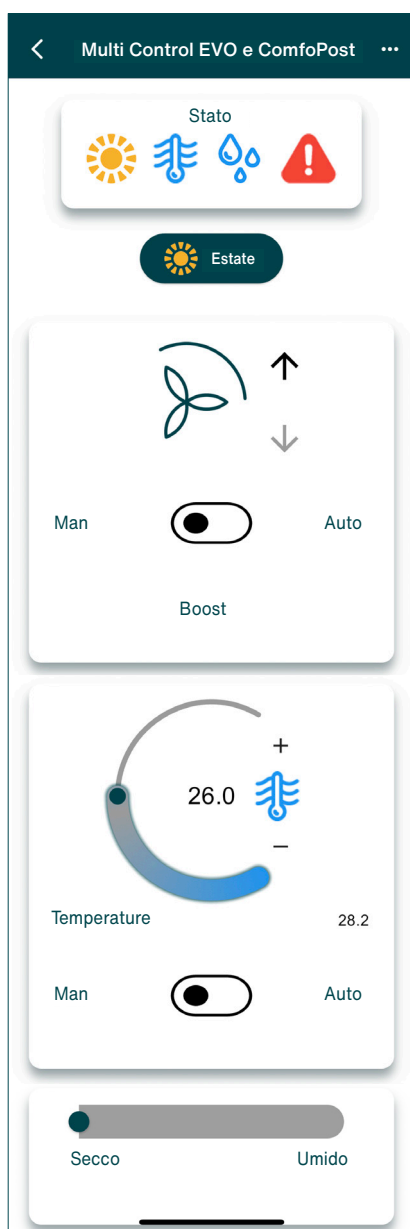
For more information on the correct operation of the Multi Control with ComfoPost, refer to the following paragraphs.

4.10. Using the app : EVO unit and ComfoPost ISO

When a ComfoPost battery with ComfoPost Control is connected to the Multi Control, the application allows you to monitor air exchange, heating and cooling.

If the system is equipped with a ComfoPost ISO summer post-heating coil, it is also possible to dehumidify in an isothermal manner, i.e. send air at the same indoor summer temperature, correctly dehumidified.

On the main screen, the appearance of the application is unchanged; when you select Multi Control, the app will look like this:



The ventilation section allows you to control all related parameters, as described above. The temperature section allows you to adjust the setpoint temperature in the Multi Control installation environment, view the detected temperature, and select the automatic or manual operating mode of ComfoPost. In addition, you can control the summer dehumidification mode.

Multi Control has a standard activation point for dehumidification mode of 11 g/kg of absolute humidity detected in the installation environment, corresponding to 26°C - 52% RH. If you want a more dehumidified environment, press the circle in the centre of the blue bar and drag it to the right; conversely, if you want a higher activation setpoint, drag it to the left.

5. Using Multi Control with EVO unit

5.1. Overview of symbols displayed

	Symbol	Meaning
Symbols relating to the mechanical ventilation unit section		Ventilation at speed 1
		Ventilation at speed 2
		Ventilation at speed 3 / boost
		Temporarily modified speed
		Ventilation unit error (filter change signal)
		Section locked

5.2. Ventilation section

In the basic configuration, with mechanical ventilation only, Multi Control is divided into two sections, one for ventilation and the other for accessing the user menu.

It is also possible to view the temperature and relative humidity detected at the installation site. See the 'User menu', 'Ventilation' section.

The main screen shows the status of the controlled mechanical ventilation: current speed, operating mode (manual or automatic), boost active/inactive and any unit filter error messages.

By pressing Multi Control in the ventilation section, a window appears where you can:

- manually increase or decrease the ventilation speed;
- switch from manual to automatic mode;
- set daily and/or weekly schedules;
- activate/deactivate boost mode;
- view a filter change warning.

5.3. User menu

Tap the menu section to scroll through the list of items where you can view and use all the Multi Control operating parameters.

5.3.1. Ventilation

The ventilation menu allows you to control the parameters relating to the EVO unit.

5.3.1.1. Errors

The appearance of the error symbol on the main screen in the ventilation section, a red triangle with an exclamation mark, indicates that the filters need to be changed.



The filter counter is inside the device and is not connected to the controlled mechanical ventilation unit. To reset the counter, use the appropriate function in the 'filters' user menu.



We recommend replacing the filters at least every 6 months; after replacing the filters, reset the counter in the 'Filters' menu (see relevant section).

5.3.1.2. Hourly program

In the 'Hourly program' menu, you can create one or more time schedules, view them, edit them and delete them.

To create a time schedule, select 'New'.

You can select the entire week, a single day, working days (Monday to Friday) or the weekend (Saturday and Sunday). Press 'Confirm' to proceed with selecting the start and end times.

Select the start time by scrolling through the hours and minutes. Press 'Confirm' to proceed with selecting the end time of the programme.

Select the end time by scrolling through the hours and minutes. Press 'Confirm' to proceed with selecting the desired fan speed.

You can create a maximum of 7 time programmes.

'Confirm' saves the programme and exits, 'Delete' deletes the displayed time programme and exits.

By selecting automatic mode, if no time programmes have been set, or during times not covered by a programme, the unit will operate at speed 2.

If two or more time programmes overlap, the shortest programme will take precedence over the longer one.

The list of time programmes entered can be viewed in the 'View/Edit' menu. You can view and/or delete a time programme.

5.3.1.3. Boost

It is possible to force the controlled mechanical ventilation unit to operate at the third speed for a set period of time, after which the unit returns to its previous settings.

This function is useful in the event of a temporary change in air quality, for example in the event of higher than usual occupancy, increased humidity due to cooking or personal hygiene, etc.

Selectable time: 10, 20, 30, 40, 50 minutes, 1, 2, 3, 6, 12, 24 hours. To deactivate the boost function early, return to this menu and press 'Off'.

On the main screen, next to the symbol indicating the fan speed, the word "Boost" appears along with a countdown timer, which shows the time remaining before the function is automatically deactivated.



There may be a discrepancy of up to 1 minute between the remaining time in boost mode on Multi Control and the app, due to the time required for transmission between the two devices.

5.3.1.4. Filters

For ComfoAir series units, this menu allows you to view the remaining days of filter use and reset the counter.

The filter counter is located inside the Multi Control and is not linked to the controlled mechanical ventilation unit. We recommend replacing the filters at least every 6 months; reset the counter only after replacement.

5.3.2. Temperature and humidity display

This menu appears when Zehnder Multi Control is called upon to control only the controlled mechanical ventilation unit.

By selecting 'display', the main screen will also show the temperature and relative humidity detected at the installation site, adding two sections on the left side of the main screen.

Activating this option allows ONLY THE DISPLAY of temperature and humidity; control of any parameters related to them is not permitted.

Selecting 'hide' will cause the temperature and humidity to no longer be displayed, and the main screen will return to its initial appearance.

6. Use of Multi Control with EVO unit and ComfoDew dehumidifier

6.1. Overview of symbols displayed

	Symbol	Meaning
Symbols relating to the mechanical ventilation unit section		Ventilation at speed 1
		Ventilation at speed 2
		Ventilation at speed 3 / boost
		Temporarily modified speed
		Ventilation unit error (filter change signal)
		Section locked

	Symbol	Meaning
Symbols related to the dehumidification section		No dehumidification request
		Active dehumidification request
		Integration enabled, no integration request present
		Integration enabled, cold integration request active
		Integration enabled, hot integration request active
		Dehumidifier error
		Section blocked

	Symbol	Meaning
Symbols related to the menu section		Current season: summer
		Current season: winter
		Communication error
		Section blocked

In the configuration with mechanical ventilation unit and ComfoDew dehumidifier, the Multi Control is divided into four sections: temperature, humidity, ventilation and menu.

6.2. Ventilation section

The section on controlled mechanical ventilation has the same functions and characteristics as described above. Please refer to the relevant section for further information.



If, during the summer season, ventilation does not follow the set time schedule or, when using the controls to change the current speed, it does not change, check whether there is a request for dehumidification or cooling. In this case, the behaviour is normal; the ventilation unit is working to optimise the operation of the dehumidifier.

6.3. Temperature and dehumidification sections

The first section, at the top left, displays the settings for the room temperature, which is only used to activate the dehumidifier's heating and cooling functions.

You can view the set temperature or the detected temperature on the main screen by pressing the relevant section and highlighting the upper or lower temperature respectively.

The second section, at the bottom left, displays the relative humidity detected, the current operating mode (automatic or manual), the operating status and/or any errors in the dehumidifier.

Dehumidification is only possible in summer. During the winter season, humidity is displayed in grey and is not actively controlled.

During winter, the only action possible for the dehumidifier is to switch the heating integration on and off, based on the difference between the setpoint and the detected temperature. For more information, see the relevant section 'User menu', 'Dehumidification'.



It is strongly recommended to always leave the dehumidifier in 'manual' mode. Otherwise, the dehumidifier will only activate at the times set in the various programmes, with the risk that, outside these times, the dew point will be exceeded and the radiant panel heads will close.

In summer, pressing the dehumidifier section gives you access to some quick functions: increase or decrease the humidity setpoint by raising or lowering the slider on the left, select automatic or manual operating mode, quickly access the menu for viewing and setting time programmes.

6.4. User menu with EVO unit and ComfoDew

Tap the menu section to scroll through the list of items where you can view and use all the Multi Control operating parameters.

6.4.1. Ventilation

The ventilation menu allows you to control the parameters relating to the EVO unit. Operation is identical to that described in section 5.3.1.

6.4.2. Dehumidification

This menu appears when Zehnder Multi Control is called upon to detect and control humidity in the room during the summer season and is directly connected to an EVO controlled mechanical ventilation unit and a ComfoDew dehumidifier.

6.4.2.1. Errors

The error menu displays errors relating to the dehumidifier. Some of these are permanent and require the intervention of an authorised Zehnder technical service centre.

List of errors that can be displayed:

- high water temperature: the water supply to the ComfoDew is above 18°C. Reduce the temperature;
- low evaporator temperature: the evaporator is frozen. Check that the water supply temperature is above 12°C, check that the ventilation unit is working properly, wait for defrosting;
- communication error: check the electrical connections, check that the ComfoDew is powered and switched on;
- permanent evaporator error: contact your nearest Technical Assistance Centre;
- permanent pressure switch error: contact your nearest Technical Assistance Centre;
- T water sensor alarm: contact your nearest Technical Assistance Centre;
- evaporator T sensor alarm: contact your nearest Technical Assistance Centre.

To reset the errors, press the symbol at the top right.

6.4.2.2. Hourly program

In the 'Hourly program' menu, you can create one or more time programmes for the dehumidifier, view them, modify them and delete them.

To create a time programme, select 'New'.

You can select the whole week, a single day, working days (Monday to Friday) or the weekend (Saturday and Sunday). Press 'Confirm' to proceed with selecting the start and end times.

Select the start time by scrolling through the hours and minutes. Press 'Confirm' to proceed with selecting the end time of the programme.

Select the end time by scrolling through the hours and minutes.

You can create a maximum of 7 time programmes.

'Confirm' saves the programme and exits, "Delete" cancels the displayed time programme and exits.

If two or more time programmes overlap, the shortest one takes precedence over the longest one.

The list of time programmes can be viewed in the 'View/Edit' menu. You can view and/or delete a time programme.



Outside of the programmed times, the dehumidifier will not switch on, even if the set limits are exceeded.



If automatic mode is selected and no programmes have been set, the dehumidifier will never switch on.

6.4.2.3. Cold integration and hot integration

During the summer, the ComfoDew dehumidifier allows you to dehumidify and send air into the environment at an isothermal temperature, i.e. at the same temperature as the indoor temperature, or dehumidified and cooled air.

▪ Cold integration OFF

When cold integration is off, the air is sent into the room dehumidified and at a temperature equal to the internal summer comfort temperature.

▪ Cold integration ON

When cold integration is active, if a dehumidification request is activated on Multi Control but the detected temperature is close to the setpoint, the air will be sent to the room in isothermal mode.

If, on the other hand, the air temperature rises above the setpoint + an offset value set in the installer menu (by default +1°C), then the air will be sent cooled and dehumidified.

Cold integration is deactivated when the setpoint temperature is reached.

Only the isothermal dehumidification request can be active, or a request for cold integration and dehumidification.

It is not possible to have cold integration without dehumidification using ComfoDew.

▪ Hot integration OFF

ComfoDew does not contribute to heating the air in winter; this is handled by other systems. Controlled mechanical ventilation operates in exchange mode with passive recovery only.

▪ Hot integration ON

Heat integration allows the supply air to be slightly heated in the room. When activated, it comes into operation when the internal temperature falls below the setpoint – a hysteresis value set in the installer menu. Default setting: 1°C.

Heat integration is deactivated when the setpoint temperature is reached.



The dehumidifier compressor remains switched off at all times and it is not possible to actively dehumidify the air.

6.4.2.4. Humidity values

This menu displays the values measured in the Multi Control installation environment:

- absolute humidity measured in the environment in g/kg;
- relative humidity measured in the environment in %;
- set humidity is the absolute setpoint humidity, i.e. the value above which the dehumidification request is activated;
- dew point is the temperature at which the ambient air condenses, under the conditions detected by Multi Control: if it is higher than the maximum dew point set during start-up, the appropriate protections are activated to prevent surface condensation.

6.4.2.5. Dehumidifier status

The parameters relating to the dehumidifier are displayed:

- current evaporator temperature;
- feed water temperature;
- water temperature at the evaporator outlet;
- air temperature (not detectable at the moment);
- pre-treatment valve, indicates whether the pre-treatment coil is supplied with water from the system or not;
- compressor status, active or inactive.

6.4.2.6. Limits humidity

When the dehumidifier receives a dehumidification request from Multi Control or another device, the ventilation unit is automatically set to the first speed to limit the entry of humid air, which occurs mainly with a sensitive exchanger, while waiting for the ComfoDew compressor to start.



When air post-treatment is present, ComfoDew or ComfoPost, in cooling and/or dehumidification mode, we always recommend installing an ERV enthalpy exchanger which, in summer, not only lowers the outside air temperature but also reduces its humidity, thereby reducing the active dehumidification work required by the system.

If, for reasons of comfort and/or greater need for air exchange, the user wishes to deactivate this operating mode, they can do so by entering the 'humidity limit' menu and selecting 'OFF'.

6.4.2.7. Maximum speed

The maximum speed menu limits the Multi Control's ability to increase speed during dehumidifier operation.



We recommend using this function as little as possible, and only in cases where the third speed of the ventilation unit is particularly annoying.

Reducing the possibility of increasing the speed increases the risk of the dehumidifier evaporator freezing, resulting in a shutdown for defrosting and a reduction in air dehumidification efficiency.

7. Use of Multi Control with EVO unit, ComfoPost coil and ComfoPost Control

7.1. Overview of symbols displayed

	Symbol	Meaning
Symbols relating to the mechanical ventilation unit section		Ventilation at speed 1
		Ventilation at speed 2
		Ventilation at speed 3 / boost
		Temporarily modified speed
		Ventilation unit error (filter change signal)
		Section locked

	Symbol	Meaning
Symbols relating to the temperature section		No integration request
		Hot integration request active
		Cold integration request active
		ComfoPost error
		Section locked

	Symbol	Meaning
Symbols relating to the menu section		Current season: summer
		Current season: winter
		Holiday programme active
		Communication error
		Section locked

In configurations with mechanical ventilation units and ComfoPost coils with ComfoPost Control cards, Multi Control is divided into four sections: temperature, humidity, ventilation and menu.

7.2. Ventilation section

The section on controlled mechanical ventilation has the same functions and features as described above. Please refer to the relevant section for more information.

Tips on how to get the most out of the ventilation unit when used with ComfoPost.

If the ventilation unit is used in 'manual' mode, Multi Control will simply activate and deactivate the hot or cold water supply to the coil by opening and closing the solenoid valve.

In this way, the power contribution provided by ComfoPost will depend on the current air flow rate.

Optimal operation is achieved when ventilation is used in automatic mode.

The user can set up a comfort schedule according to their needs, or set a single schedule covering the whole day, every day, at speed 1.

When Multi Control detects a deviation in the internal temperature from the setpoint, it activates the ComfoPost battery. After a certain period of time, which can be set freely by the user (see user menu below), if the room has not reached the setpoint temperature, the speed of the ventilation unit is increased by one step. After the next period, if the setpoint is reached, Multi Control will reduce the flow rate again and leave control of the ventilation unit, returning to the user's hourly programme by closing the solenoid valve; if, on the other hand, the setpoint is not reached, the flow rate is increased by another step, if possible.

This allows the ComfoPost battery to work at its best, transmitting as much power (summer or winter) as possible to the indoor environment, while maintaining maximum indoor comfort.



In summary, if the ventilation is in automatic mode, it may not follow the set schedule for heating and cooling the building. However, by using the controls, you can change the current speed, bypassing automatic operation, or switch to manual mode.

7.3. Temperature section

The first section of the Multi Control main screen, at the top left, displays the room temperature settings.

You can view the set temperature or the detected temperature on the main screen by pressing the temperature section and highlighting the upper or lower temperature in the window that appears.

In the same window, you can also::

- increase or decrease the setpoint temperature;
- switch from manual to automatic mode;
- set up daily and/or weekly schedules.



Within the set schedule, Multi Control maintains the setpoint. Outside the schedule, the setpoint is reduced by the attenuation temperature set in the user menu in winter and increased in summer.

7.4. Dehumidification section

The relative humidity detected in the environment is displayed in the lower left section. Humidity is for display only; the values are grey and cannot be used to perform any operations.

ComfoPost battery operation with ComfoPost Control

In winter, ComfoPost simply heats the air before it is released into the room, without active dehumidification control.

In summer, if the setpoint temperature is not reached, the ComfoPost battery is activated and the effect will be both cooling and dehumidification. It is not possible to cool without dehumidifying or to dehumidify without cooling. It is also not possible to call for dehumidification only when the room temperature is equal to or lower than the setpoint. If this function is required, a ComfoPost ISO post-heating coil must be installed and ComfoPost Control and Multi Control must be reconfigured.

7.5. User menu with EVO unit and ComfoPost

Tap the menu section to scroll through the list of items where you can view and use all the Multi Control operating parameters.

7.5.1. Ventilation

The ventilation menu allows you to control the parameters relating to the EVO unit. Operation is identical to that described in section 5.3.1.



When ventilation is in automatic mode, ComfoPost Control adjusts the flow rate according to the heating requirements of the room in which Multi Control is installed.

7.5.2. ComfoPost

This menu appears when Zehnder Multi Control is called upon to detect and control the room temperature and is directly connected to an EVO controlled mechanical ventilation unit and a ComfoPost Control card with ComfoPost post-treatment coil (heating and/or cooling).

7.5.2.1. Errors

The error menu displays errors relating to the ComfoPost Control card. Some of these errors are permanent and require the intervention of an authorised Zehnder technical service centre.

List of errors that can be displayed:

- Communication error: Multi Control does not recognise or no longer recognises the ComfoPost Control card. Check the connections and make sure that ComfoPost Control is powered up. If the problem persists, contact your nearest Technical Assistance Centre;
- T sensor error: contact your nearest Technical Assistance Centre and check that the temperature sensor is working properly.

7.5.2.2. Hourly program

In the 'Time programme' menu, you can create one or more time programmes within which the setpoint is maintained. Outside these programmes, the setpoint is reduced by the attenuation temperature in winter and increased by the same temperature in summer.

To create a time programme, select 'New'.

You can select the whole week, a single day, working days (Monday to Friday) or the weekend (Saturday and Sunday). Press 'Confirm' to proceed with selecting the start and end times.

Select the start time by scrolling through the hours and minutes. Press 'Confirm' to proceed with selecting the end time of the programme.

Select the end time by scrolling through the hours and minutes.

You can enter a maximum of 7 time programmes.

'Confirm' saves the programme and exits, "Delete" cancels the displayed time programme and exits.

If two or more time programmes overlap, the shortest one takes precedence over the longest one.

The list of time programmes can be viewed in the 'View/Edit' menu. You can view and/or delete a time programme.

7.5.2.3. Attenuation temperature

When ComfoPost is set to automatic mode, during the set time programmes, the setpoint temperature is the one you set, while outside these times it will be:

- in summer, the setpoint temperature + the attenuation temperature;
- in winter, the setpoint temperature - the attenuation temperature.

In this menu, you can set the desired attenuation temperature, which is 2°C by default. Values between 0.5°C and 10°C are allowed, with increments of 0.1°C.



Buildings in which ComfoPost is the only heating and cooling system are generally structures with high thermal inertia. This means that, just as it takes a long time to reduce the internal temperature in winter, it takes just as long to return to the desired comfort temperature.

It is recommended to AVOID significant reductions in temperature in winter and, similarly, significant increases in summer. The system should be switched on and operated consistently and in accordance with the season.

7.5.2.4. Anti-freeze temperature

This menu is used to set the temperature below which there is a risk of the building and systems freezing.

Any time programme, setpoint or attenuation that falls below this temperature is ignored: Multi Control will call the heating system to maintain this value as low as possible.

Default value 7°C; permitted range between 5°C and 15°C.



WARNING! The anti-freeze temperature set on Multi Control is effective ONLY if the heat pump and the rest of the system are left running.

If the heat pump or circulation pumps are blocked or switched off by the user, the ventilation system with ComfoPost and Multi Control will not be able to prevent freezing.

7.5.2.5. Increase delay time

If the ventilation unit is left in automatic mode, there is a request for heat (in winter) or cooling (in summer) and Multi Control does not detect a significant improvement in the room temperature after a certain time (the increase delay time), it increases the speed of the unit to increase the power supplied.

The user can decide to increase the increase delay time to have fewer variations in the unit speed at the expense of the speed at which the setpoint is reached, or reduce it to achieve thermal comfort more quickly.

Default value 2 minutes; allowed range between 1 and 60 minutes.

7.5.2.6. Silent mode

When Multi Control automatically increases the speed of the ventilation unit during rest periods, it may cause discomfort to the user.

To avoid this inconvenience and still leave the unit in automatic mode, you can activate silent mode and set up to two programmes in which the user can limit the maximum speed that can be reached during automatic operation of the ventilation unit.

7.5.2.7. Holiday programme

Multi Control allows you to activate a holiday programme for extended absences, up to the date set by the user.

You can set a winter reduction temperature (default 4°C) and a summer increase temperature (default 2°C).

The permitted values range from 1°C to 10°C.



In winter, even if the attenuation temperature and reduction temperature are subtracted from the setpoint, Multi Control will NOT allow the temperature to fall below the anti-freeze temperature.

7.5.2.8. ComfoPost Status

This menu is used to view the status of the ComfoPost, whether it is active or inactive, and the temperatures detected by any PT 1000 temperature probes installed on the ComfoPost Control.

8. Use of Multi Control with EVO unit, ComfoPost coil, ComfoPost ISO and ComfoPost Control

8.1. Overview of symbols displayed

	Symbol	Meaning
Symbols relating to the mechanical ventilation unit section		Ventilation at speed 1
		Ventilation at speed 2
		Ventilation at speed 3 / boost
		Temporally modified speed
		Ventilation unit error (filter change signal)
		Section locked

	Symbol	Meaning
Symbols relating to the temperature section		No integration request
		Hot integration request active
		Cold integration request active
		ComfoPost error
		Section locked

	Symbol	Meaning
Symbols relating to the dehumidification sect.		No dehumidification request
		Active dehumidification request
		Section locked

	Symbol	Meaning
Symbols relating to the menu section		Current season: summer
		Current season: winter
		Holiday programme active
		Communication error
		Section locked

In the configuration with mechanical ventilation unit and ComfoPost post-treatment coil and ComfoPost ISO post-heating coil for summer isothermal dehumidification with ComfoPost Control board, the Multi Control is divided into four sections: temperature, humidity, ventilation and menu.

8.2. Ventilation section

The section on controlled mechanical ventilation has the same functions and characteristics as described above. Please refer to the relevant section for more information.

Tips for optimal use of the ventilation unit combined with ComfoPost

Tips for optimal use of the ventilation unit combined with ComfoPostIf the ventilation unit is used in 'manual' mode, Multi Control will only activate and deactivate the hot or cold water supply to the coil by opening and closing the solenoid valve. In this way, the power contribution provided by ComfoPost will depend on the current air flow rate.

Optimal operation is achieved when ventilation is used in automatic mode.

The user can set up a comfort time schedule according to their needs, or set a single time schedule covering the whole day, every day, at speed 1.

When Multi Control detects a deviation in the internal temperature from the setpoint, it activates the ComfoPost battery. After a certain period of time, which can be set freely by the user (see user menu below), if the room has not reached the setpoint temperature, the speed of the ventilation unit is increased by one step.

After the next period, if the setpoint is reached, Multi Control will reduce the flow rate again and leaves control of the ventilation unit, returning to the user's hourly programme by closing the solenoid valve; if, on the other hand, the setpoint is not reached, the flow rate is increased by another step, if possible.

This is done to allow the ComfoPost coil to work at its best, transferring as much power (summer or winter) as possible to the indoor environment, while maintaining maximum indoor comfort.



In summary, if the ventilation is in automatic mode, it may not follow the set schedule for heating and cooling the building. However, by using the controls, you can change the current speed, bypassing automatic operation, or switch to manual mode.

In summer, **when only dehumidification is required**, Multi Control never changes the speed of the ventilation unit, leaving it at the speed set by the user, even if the humidity setpoint is not reached after a certain period of time.

The logic behind this process is to maximise the dehumidification of the incoming air without overloading the ComfoPost coil. When cooling is required in addition to dehumidification, the cold integration logic described above takes precedence over dehumidification, which still takes place.

8.3. Temperature section

The first section of the Multi Control main screen, at the top left, displays the room temperature settings.

You can view the set temperature or the detected temperature on the main screen by pressing the temperature section and highlighting the upper or lower temperature in the window that appears.

In the same window, you can also:

- increase or decrease the setpoint temperature;
- switch from manual to automatic mode;
- set up daily and/or weekly schedules;



Within the set schedule, Multi Control maintains the setpoint. Outside the schedule, the setpoint is reduced by the attenuation temperature set in the user menu in winter and increased in summer.

8.4. Dehumidification section

The relative humidity detected in the room is displayed in the lower left section.

Dehumidification is only possible during the summer season. During the winter season, humidity is displayed in grey and is not actively controlled.

In summer, by pressing on the dehumidifier section, you can access a window where you can increase or decrease the humidity setpoint by raising or lowering the slider on the left.

ComfoPost battery operation with ComfoPost ISO and ComfoPost Control

In winter, ComfoPost simply heats the air before it is fed into the room, without active dehumidification control. ComfoPost ISO does not come into operation.

In summer, if the setpoint temperature is not reached, both the ComfoPost coil, which cools and dehumidifies the air, and the ComfoPost ISO coil, which reheats it to send it into the room at the same internal temperature but drier, are activated.

8.5. User menu with EVO unit, ComfoPost e ComfoPost ISO

Tap the menu section to scroll through the list of items where you can view and use all the Multi Control operating parameters.

8.5.1. Ventilation

The ventilation menu allows you to control the parameters relating to the EVO unit. Operation is identical to that described in section 5.3.1.



When ventilation is in automatic mode, ComfoPost Control adjusts the flow rate according to the heating requirements of the room in which Multi Control is installed.

8.5.2. ComfoPost ISO

This menu appears when Zehnder Multi Control is called upon to detect and control the room temperature and is directly connected to an EVO controlled mechanical ventilation unit and a ComfoPost Control card with ComfoPost post-treatment coil (heating and/or cooling) and ComfoPost ISO summer post-heating.

8.5.2.1. Errors

The error menu displays errors relating to the ComfoPost Control card. Some of these errors are permanent and require the intervention of an authorised Zehnder technical service centre.

List of errors that can be displayed:

- communication error: Multi Control does not recognise or no longer recognises the ComfoPost Control card. Check the connections and make sure that ComfoPost Control is powered up. If the problem persists, contact your nearest Technical Support Centre;
- T sensor error: Contact your nearest Technical Support Centre and check that the temperature sensor is working properly.

8.5.2.2. Hourly program

In the 'Hourly program' menu, you can create one or more time programmes within which the setpoint is maintained. Outside these programmes, the setpoint is reduced by the attenuation temperature in winter and increased by the same temperature in summer.

To create a time programme, select 'New'.

You can select the whole week, a single day, working days (Monday to Friday) or the weekend (Saturday and Sunday). Press 'Confirm' to proceed with selecting the start and end times.

Select the start time by scrolling through the hours and minutes. Press 'Confirm' to proceed with selecting the end time of the programme.

Select the end time by scrolling through the hours and minutes.

You can create a maximum of 7 time programmes.

'Confirm' saves the programme and exits, "Delete" cancels the displayed time programme and exits.

If two or more time programmes overlap, the shortest one takes precedence over the longest one.

The list of time programmes can be viewed in the 'View/Edit' menu. You can view and/or delete a time programme.

8.5.2.3. Attenuation temperature

When ComfoPost is set to automatic mode, during the set time programmes, the setpoint temperature is the one you set, while outside these times it will be:

- in summer, the setpoint temperature + the attenuation temperature;
- in winter, the setpoint temperature - the attenuation temperature.

In this menu, you can set the desired attenuation temperature, which is 2°C by default. Values between 0.5°C and 10°C are allowed, with increments of 0.1°C.



Buildings in which ComfoPost is the only heating and cooling system are generally structures with high thermal inertia. This means that, just as it takes a long time to reduce the internal temperature in winter, it takes just as long to return to the desired comfort temperature.

It is recommended to AVOID significant reductions in temperature in winter and, similarly, significant increases in summer. The system should be switched on and operated consistently and in accordance with the season.

8.5.2.4. Anti-freeze temperature

This menu is used to set the temperature below which there is a risk of the building and systems freezing.

Any time programme, setpoint or attenuation that falls below this temperature will be ignored: Multi Control will call the heating system to maintain this value as low as possible.

Default value 7°C; permitted range between 5°C and 15°C.



WARNING! The anti-freeze temperature set on Multi Control is effective ONLY if the heat pump and the rest of the system are left running.

If the heat pump or circulation pumps are blocked or switched off by the user, the ventilation system with ComfoPost and Multi Control will not be able to prevent freezing.

8.5.2.5. Increase delay time

If the ventilation unit is left in automatic mode, there is a request for heat (in winter) or cooling (in summer) and Multi Control does not detect a significant improvement in the room temperature after a certain time (the increase delay time), it increases the speed of the unit to increase the power supplied.

The user can decide to increase the increase delay time to have fewer variations in the unit speed at the expense of the speed of reaching the setpoint, or reduce it to achieve thermal comfort more quickly. Default value 2 minutes; allowed range between 1 and 60 minutes.

8.5.2.6. Silent mode

When Multi Control automatically increases the speed of the ventilation unit during rest periods, it may cause discomfort to the user.

To avoid this inconvenience and still leave the unit in automatic mode, you can activate silent mode and set up to two programmes in which the user can limit the maximum speed that can be reached during automatic operation of the ventilation unit.

8.5.2.7. Holiday programme

Multi Control allows you to activate a holiday programme for extended absences, up to the date set by the user.

You can set a winter reduction temperature (default 4°C) and a summer increase temperature (default 2°C). The permitted values range from 1°C to 10°C.



In winter, even if the attenuation temperature and reduction temperature are subtracted from the setpoint, Multi Control will NOT allow the temperature to fall below the anti-freeze temperature.

8.5.2.8. ComfoPost ISO Status

This menu is used to view the status of the ComfoPost, whether it is active or inactive, and the temperatures detected by any PT 1000 temperature probes installed on the ComfoPost Control.

8.5.2.9. Humidity values

This menu displays the values detected in the environment where Multi Control is installed:

- absolute humidity detected in the environment in g/kg;
- relative humidity detected in the environment in %;
- set humidity is the absolute setpoint humidity, i.e. the value above which the dehumidification request is activated;
- dew point is the temperature at which the ambient air condenses, under the conditions detected by Multi Control.

9. Season

The 'season' menu is displayed when Multi Control is called upon to control the EVO ventilation unit and a post-treatment device, ComfoDew dehumidifier or ComfoPost coil with ComfoPost Contro.

It is normally set to automatic mode; the day on which Multi Control changes the season is set during installation. In this menu, the user can leave automatic mode and change the start and end dates of summer and winter, or decide to change the season manually, which can be done directly in this menu.



The current season must be set correctly, as the dehumidifier remains deactivated in winter, while ComfoPost determines whether heating or cooling and/or dehumidification is activated depending on the temperature detected in the room.

If and only if this menu is in 'manual' mode, the season change can also be carried out via the app.



The season change on Multi Control **only** affects Multi Control and the behaviour of ComfoDew and ComfoPost. It does NOT affect the ventilation season or the season of the heat pump or the rest of the system..

10. Settings menu

In this section, you can customise some of the operating parameters of Zehnder Multi Control.

10.1. Clock

During start-up, the time and date are set. These can be changed at any time in this menu.

10.2. Daily saving time

Multi Control allows you to use an automatic time update function when switching between standard time and daylight saving time, so that the device updates automatically without user intervention. This function can be enabled or disabled at any time.

10.3. Language

During start-up, a language is selected for Multi Control; in this menu, you can change it, choosing between Italian, English, German, Spanish, Estonian, Latvian and Lithuanian.

10.4. Luminosity

You can adjust the brightness during operation.
The available values are between 20% and 100%.

10.5. Standby luminosity

You can adjust the brightness in standby mode.
The available values are between 0% and 20%; the default setting is 0%, so the screen appears completely black.
To reactivate the screen, press anywhere on it.

10.6. LED luminosity

You can activate the rear LEDs on the Multi Control to indicate that it is in operation. They are off by default.

10.7. Standby time

You can set a time after which the Zehnder Multi Control screen will go into standby mode if there is no activity (touch). The value can be set between 1 minute and 30 minutes, with a default value of 5 minutes.

10.8. Connettivity

Zehnder Multi Control can be connected to a local Wi-Fi network so that it can be controlled via an app. If you wish to use this option, activate the Wi-Fi on your device. Go to the menu and press 'OFF'. The 'ON' button and the "Networks" button will appear. Press 'Networks' and Zehnder Multi Control will start searching for available connections.

If the desired Wi-Fi network does not appear, check the signal strength near the device and repeat the search.

Select the network and enter the password. If the connection is successful, the device ID will appear.



If you want to connect your phone to the app or perform a software update, you must enter the 'Update' menu and select "ON".

The 'Cloud' menu shows the pairing and connection status of the Multi Control.

To connect the Multi Control to the app and/or perform a software update via the app, refer to the previous paragraphs.

10.9. Tone touch

You can select a key tone from high, medium or low volume, or turn off the key tone. In the latter case, pressing a key will not produce any sound.

10.10. Informations

The information section shows how Multi Control was configured during start-up, displaying the connected devices:

- VMC: if a controlled mechanical ventilation unit is connected, the type of unit is indicated (ComfoAir Q, ComfoAir Flex, ComfoAir, EVO). If the device is used as a thermo-humidistat, "none" appears;
- Post-treatment: if a ComfoDew dehumidifier or a treatment coil with ComfoPost Control is connected, it is displayed, otherwise 'none' appears. If the device is used as a thermo-humidistat, 'none' appears;
- Thermal zone: if a thermal zone is connected, the seasonal operating mode is displayed (heating only, heating/cooling, cooling only); if no thermal zone is connected, 'none' is displayed;
- Touch Panel or ZSC: if Zehnder Multi Control is connected to a system with a bus communication protocol, the operating status is displayed.

Pressing 'extra' displays the QR code, which can be used to download manuals and the software version with the date of issue.

11. Installer menu

The installer menu is password protected and contains the basic operating settings for Multi Control.

Contact your nearest Technical Assistance Centre to change these settings or to repeat the start-up procedure. The list of CATs is available on the website www.zehnder.it.

12. Restrictions menu

Zehnder Multi Control can be installed in areas open to the public or accessible to minors without risk of tampering: the user (operator) can restrict access to one or more sections, preventing changes via a password.

Restricted sections are marked with a padlock and an access code is required to view them.

12.1. Access code

When you access the restrictions menu, you will be asked for the access code.

The default access code is 000.

You can change the access code by setting a custom three-digit number; once changed, you will need to enter the chosen code to access the Restrictions menu or to unlock the screen.

Keep your custom access code safe.

12.2. Emergency reset of the access code

If you forget the access code you set, you can perform an emergency reset by pressing and holding the lock icon that appears on the unlock code request screen for 10 seconds.

This will take you to the installer menu, protected by the installer password, where you can change the access code.

Contact your nearest Technical Assistance Centre to reset the access code. The list of CATs is available on the website www.zehnder.it.

12.3. Ventilation restriction

By limiting ventilation, the user/manager prevents other users from changing the parameters relating to the controlled mechanical ventilation unit: changing the speed, switching from manual to automatic mode, viewing and changing the time programmes.

Access to the menu is also restricted.

12.4. Temperature restriction

By limiting the temperature, the user-manager prevents other users from changing the temperature-related parameters: changing the setpoint, switching from manual to automatic mode, viewing and changing time programmes.

The user-manager can still allow a partial change in temperature around the setpoint (winter and summer), within a range defined between 0°C (setpoint lock) and +/- 4°C.

Viene limitato anche l'accesso al menu.

12.5. Integration restriction

By limiting integration, the user-manager prevents other users from changing the parameters relating to the temperature of the integration system (towel rail): changing the setpoint, switching from manual to automatic mode, viewing and changing the time programmes.

The user-manager can still allow a partial modification of the temperature around the setpoint (winter and summer), within a range defined between 0°C (setpoint lock) and +/- 4°C.

Access to the menu is also restricted.

12.6. Dehumidification restriction

By limiting dehumidification, the user/manager prevents other users from changing the parameters relating to dehumidification: changing the setpoint, switching from manual to automatic mode, viewing and changing the time programmes.

Access to the menu is also restricted.

12.7. ComfoPost restriction

By restricting ComfoPost, the user/manager prevents other users from changing the post-treatment parameters: changing setpoints, switching from manual to automatic mode, viewing and changing time programmes.

Access to the menu is also restricted.

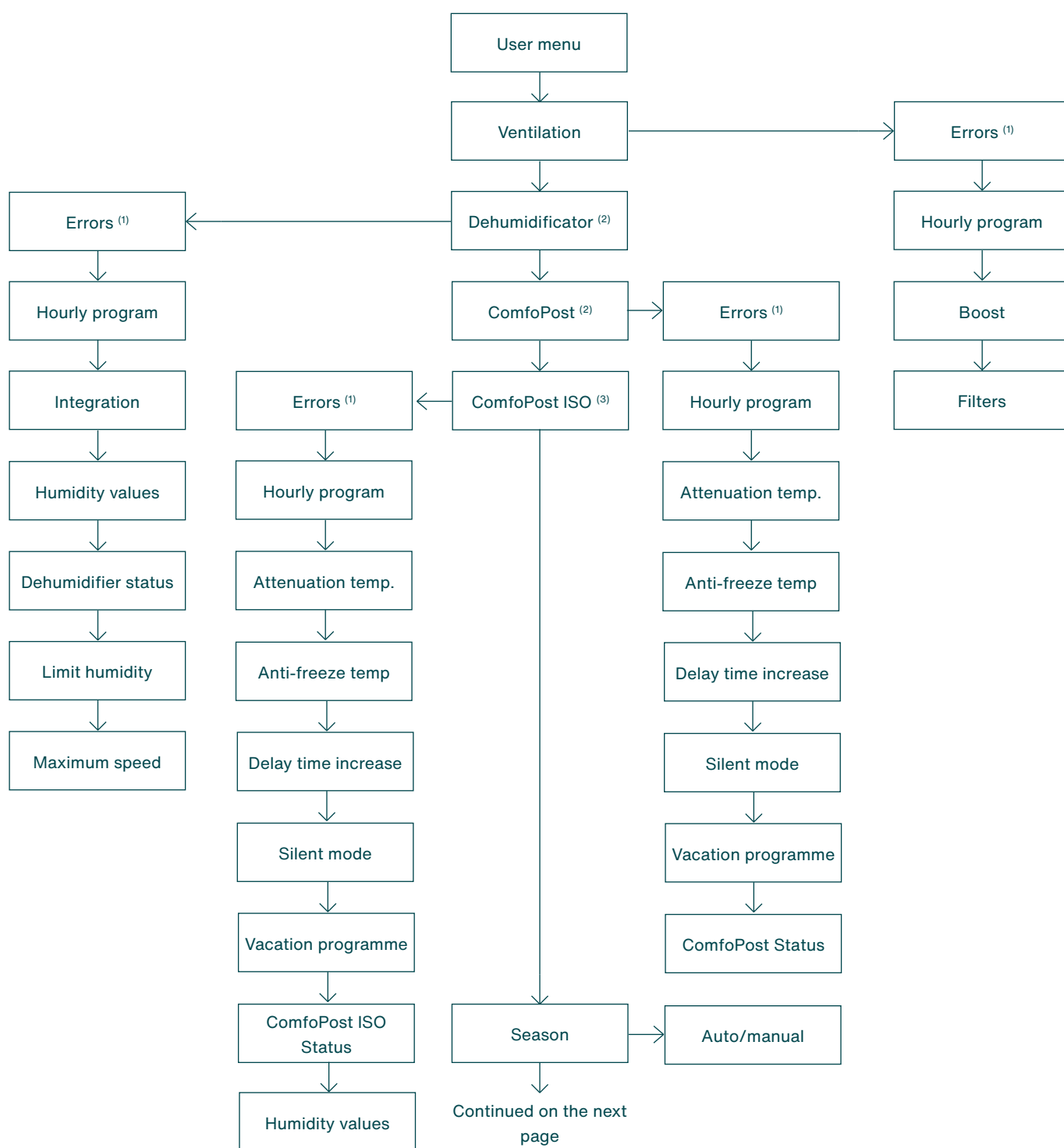
12.8. Menu restriction

By limiting the menu, all sections are left free except for access to the menu, which is blocked.

12.9. Total lock

By selecting this option, Zehnder Multi Control is completely locked and pressing anywhere on the screen will always bring up the unlock password request screen.

13. User menu overview



(1) Only appears if there is an error

(2) Only appears if configured and there is no ComfoDew dehumidifier

(3) Only appears if configured and there is no ComfoPost battery with ComfoPost Control

(4) Only appears if configured and there is no ComfoPost battery and ComfoPost ISO battery with ComfoPost Control

