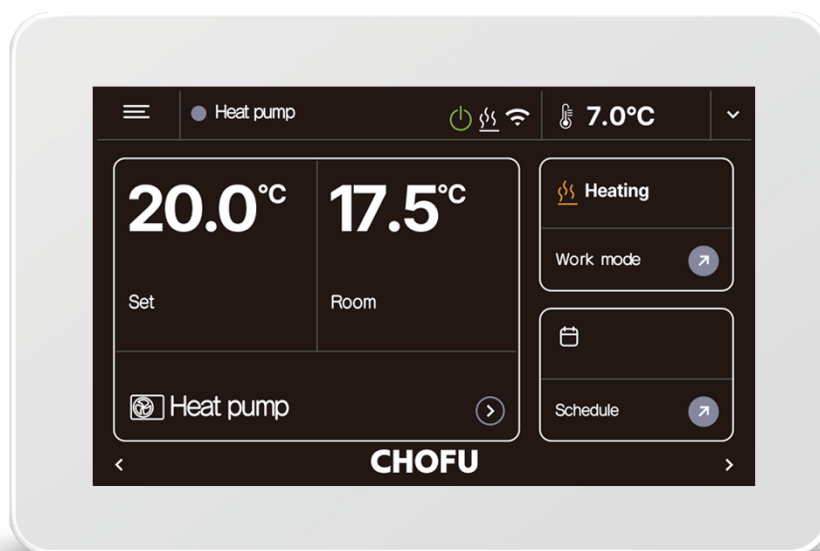


CHOFU

REMOTE CONTROLLER CMR-4100M



OPERATION MANUAL



Made in UE

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1. Usage notes

Safety recommendations

- Incorrect electrical connection between the controller and heat pump may result in damage to both devices.
- Installation has to be carried out by an installer.
- The controller manual is a supplement for heat pump technical documentation.
- User should read the manual thoroughly (we bear no responsibility for damages caused by non-observance of this manual).
- Keep this manual for future reference.

General information

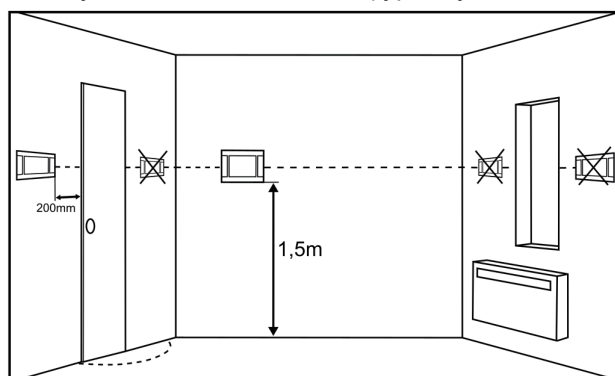
The CMR-4100M controller is designed to control the CHOFU heat pump. Provides connection to the local Wi-Fi (2.4 GHz, IEEE 802.11 B/G/N) and on-line control of the heat pump via a <http://www.comfy-connect-chofu.com> website and Comfy Connect CHOFU APK/APP mobile application. The controller acts as a thermostat and corrects the heat pump preset temperature if the room temperature is not appropriate.



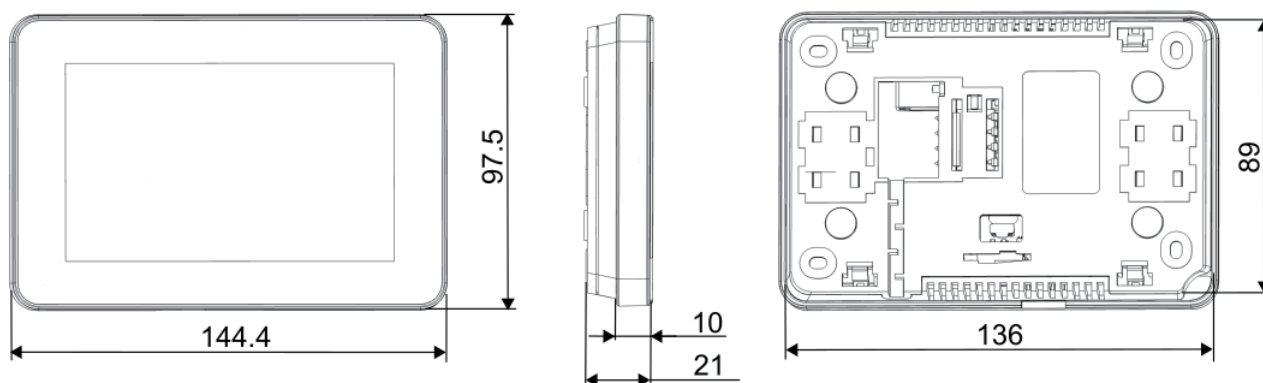
A description heat pump installation and operation is available in the main manual for the heat pump.

Remote controller installation

The controller is intended to be installed on the wall or placing it on the flat surface, only in dry room. The controller cannot be used under water vapor condensation conditions and must be protected against water. The controller must be installed on the height allowing its convenient use, typically 1.5 m over the floor. In order to reduce the interference of temperature measurement by the controller, avoid sunny places with poor air circulation, close to the heating devices and places directly at doors and windows (typically at least 200 mm from the door edge).



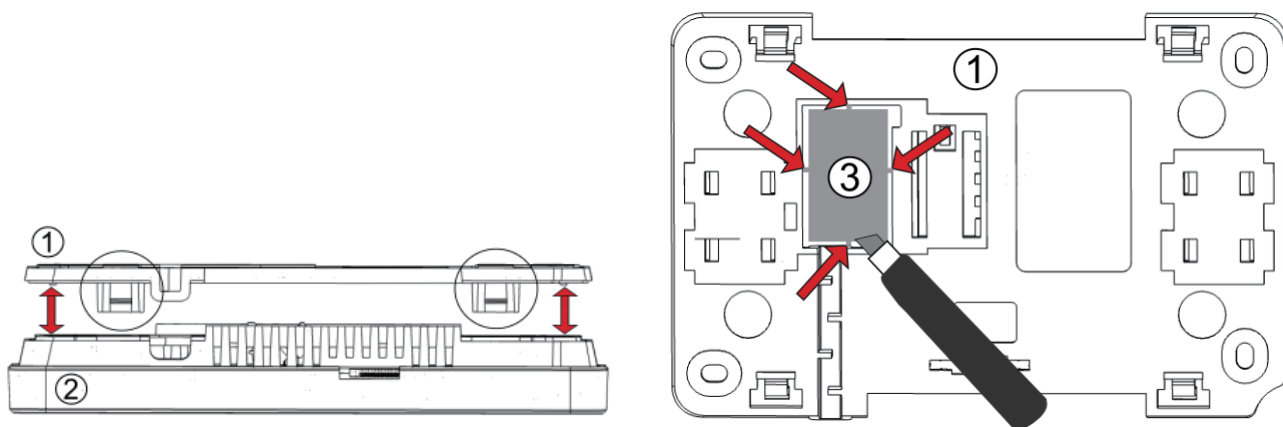
Installation.



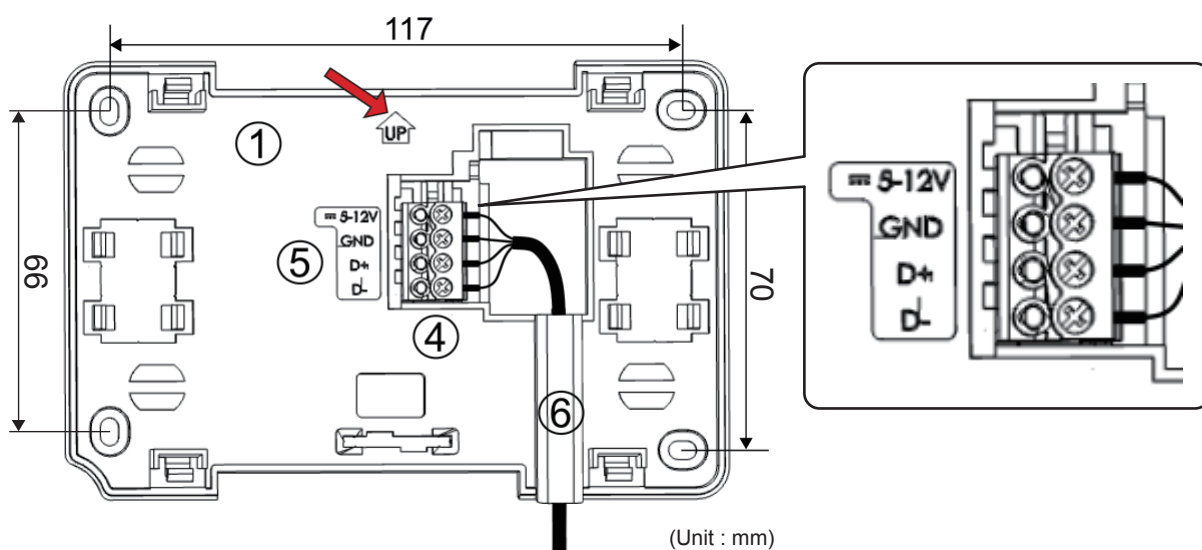
(Unit : mm)

Disconnect the installation frame (1) from the back of the controller housing (2). The frame is attached to the panel housing with latches. Use a flat screwdriver to detach the frame. Using sharp tool cut out holes in four places of the cover (3) for the screw terminals.

1. Usage notes



Connect the cable to the screw terminal (4) as described on the plate (5). The cable, if the diameter is suitable, can be routed in a cable tray (6).

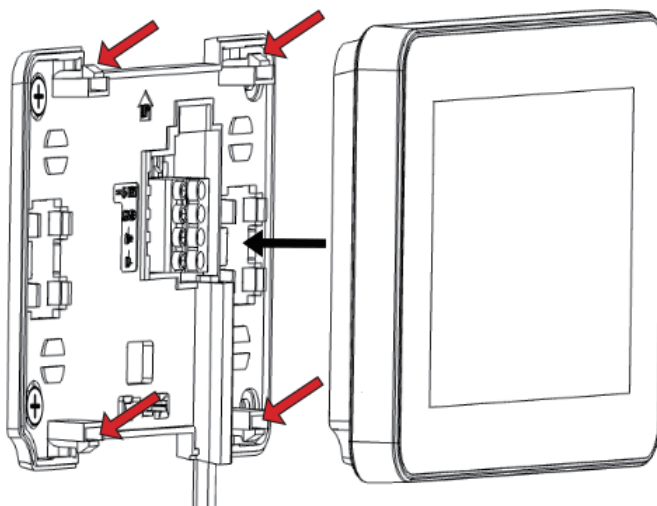


Drill holes in the wall and using screws (max. $\varnothing$ 3 mm) fix the installation frame in the selected place on the wall, maintaining its proper position (UPyh). The spacing of holes can be determined by placing the frame on the wall. Next fix the panel to the installation frame using latches.

Tip: before installation, please note/saved the serial number e.g. 9008486457 from the panel label plate to confirm installation confirmation in the Comfy Connect CHOFU. If the serial number is not saved, it can be read later from the information Serial number parameter in the General settings/ Wi-Fi settings controller menu.

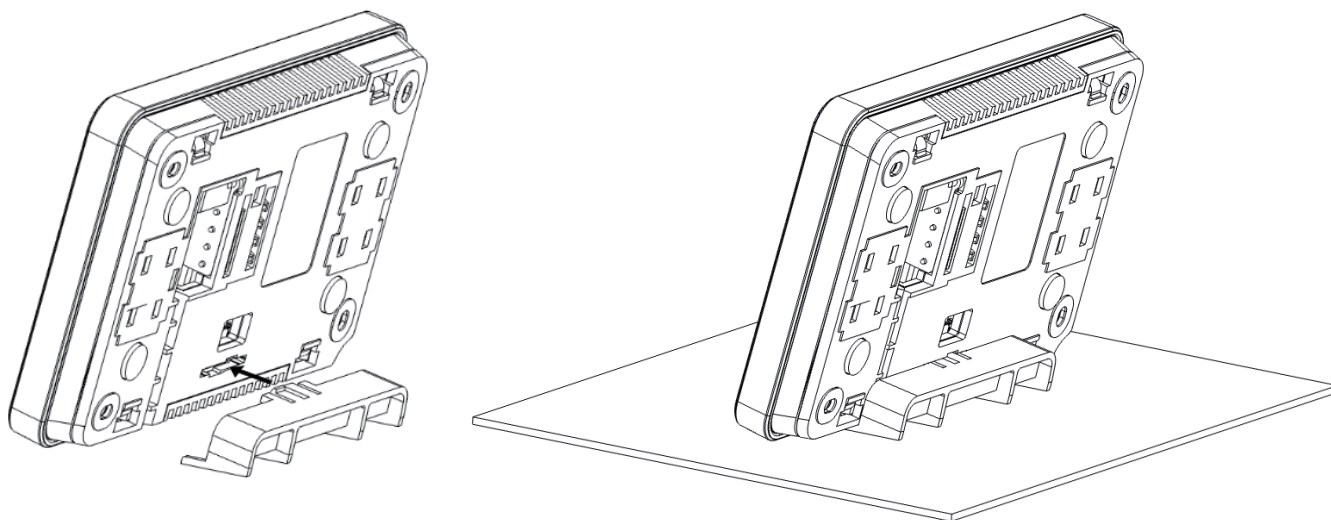


'CONTROL PANEL' on the label plate refers to the same device as the 'REMOTE CONTROLLER' or 'controller'



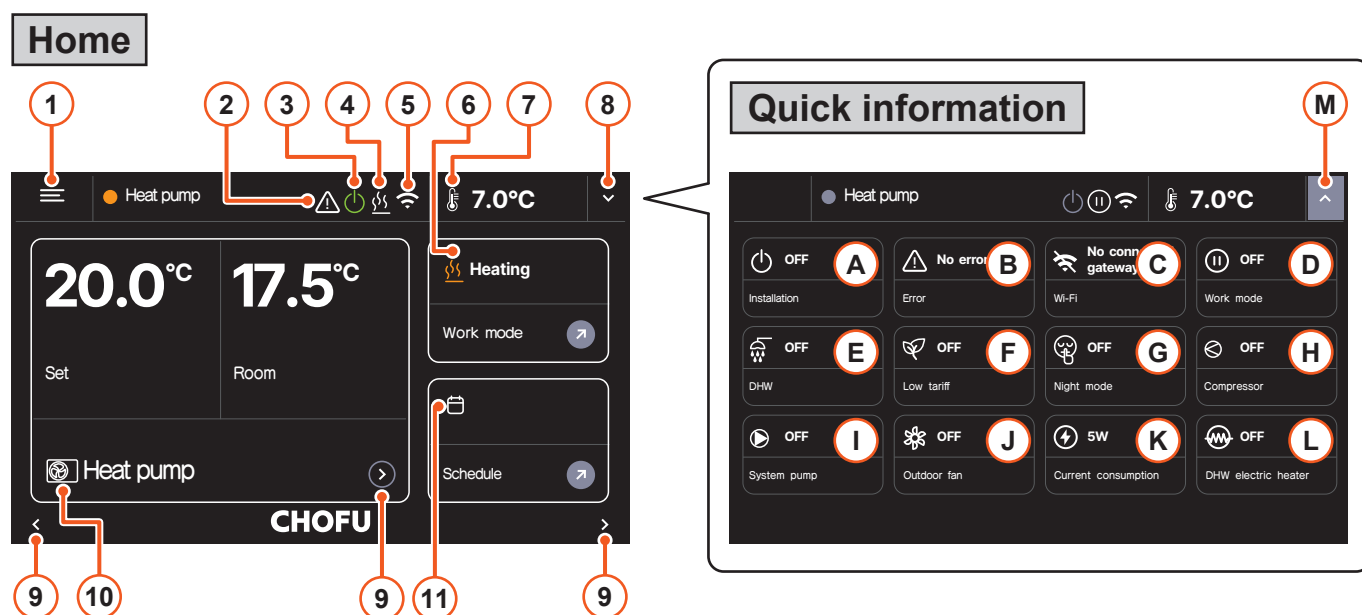
1. Usage notes

In order to place the controller on a flat surface use a dedicated stand.



2. Operation and functions of Remote controller

2.1 Display panel



Home screen icon meanings :

No.	Icons	Description
1		General settings : Heat pump, DHW, Schedule, User settings, Wi-Fi settings, Service settings, Error history, Instruction manual
		Return to the previous screen
2		When an error occurs
3		System is ON
		System is OFF
4		Heating mode
		Cooling mode
5		Wi-Fi settings and Wi-Fi status – connected or no connected gateway
6		Heating work mode is enabled
		Cooling work mode is enabled
		Heat pump OFF
		Comfort mode
		Economy mode
7		Value on top bar *2
8		Quick information
9		Changing parameters/screens
10		Heat pump settings screen
		DHW settings screen
11		Schedule

Quick information screen icon meanings :

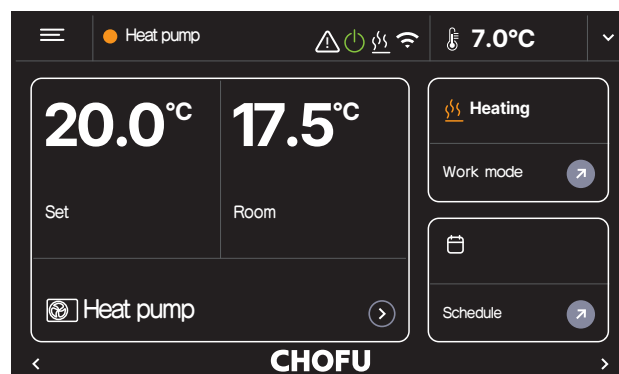
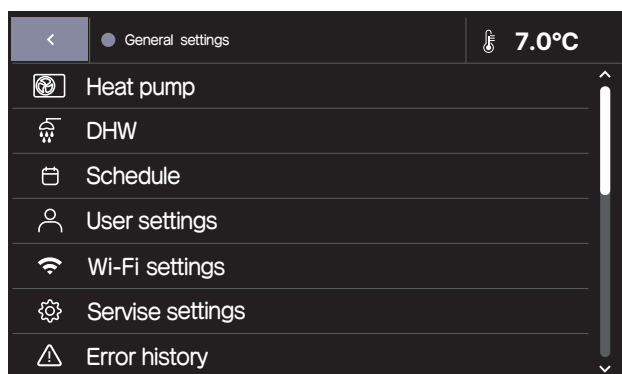
No.	Icons	Description
A		System is ON
		System is OFF
To power the system ON or OFF, press and hold the switch for 3 seconds.		
B		When an error occurs, tap to view the Error history
C		Wi-Fi status: Tap to view or change settings
D		Work mode status
		Heating mode
		Cooling mode
E		DHW
F		Low tariff mode
G		Night mode
H		Compressor
I		System pump
J		Outdoor fan
K		Current consumption
L		DHW electric heater
M		Return to "Home"

*1 The icon will be displayed in the same position on other screens as on "Home".

*2 The temperature indicator is an example, any other displays available.

2. Operation and functions of Remote controller

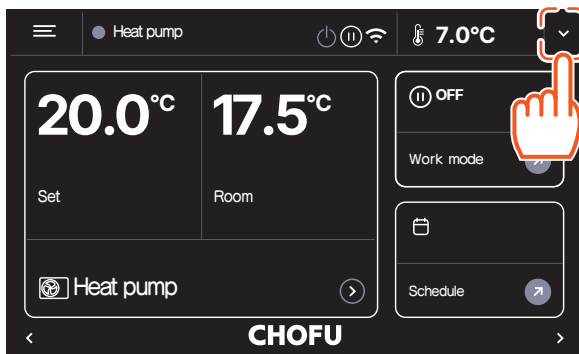
General settings



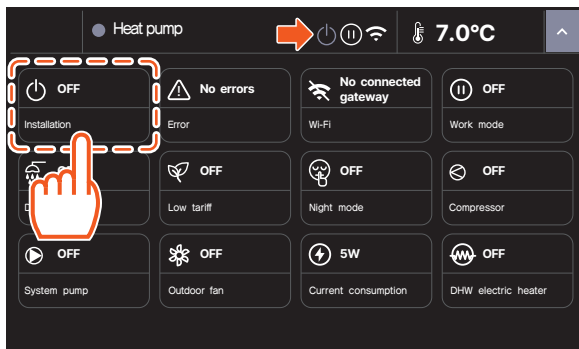
	Setting contents
Heat pump	Heat pump settings
DHW	DHW settings
Schedule	Schedule settings
User settings	
Screensaver	Configure the content displayed when the screensaver is active.
Value on top bar	Choose which values are shown on the top bar of the screen.
Screen brightness	Screen brightness intensity
Time to Screensaver on	Time to start the screensaver after the time of inactivity
Brightness in Screensaver	Screensaver brightness intensity
Screen lock	Enable or disable the automatic screen locking. How to unlock the screen : Press and hold for 3 seconds to unlock.
Error sound	Turn on or off the sound when error occurs
Touch sound	Turn on or off keys sound when touched on the screen.
Time	Date / Time setting
Panel temperature correction	Adjust the temperature readings from the panel's built-in sensor. Use this feature to correct discrepancies between detected and actual room temperature.
Firmware version	Firmware version (View Only)
Timezone	Time zone selection
Wi-Fi settings	
Communication mode	Select Wi-Fi mode
SSID	Enter the SSID
Password	Enter the password
Signal strength	Indicates the strength of the Wi-Fi signal
ecoNET wifi status	- Status - information about the connection Wi-Fi to the Comfy Connect CHOFU, - Serial number - the controller serial number to add the installation in the Comfy Connect CHOFU, - Token - generated one-time password to add the installation in the Comfy Connect CHOFU.
Wi-Fi module	Enable ON or Disable OFF the Wi-Fi support in the controller
Service settings	The menu available after entering the password
Error history	The heat pump controller's memory records both the start and end datetime (indicated by green and red symbols, respectively). The time and date are correlated with those set on the controller, so make sure you set them correctly.
Instruction manual	Scan the QR code to display the instruction manual

2. Operation and functions of Remote controller

2.2 System ON/OFF



1. Tap “Quick information”.



2. System ON/OFF setting

< OFF → ON >

Press and hold the switch for 3seconds.

The operation has started.

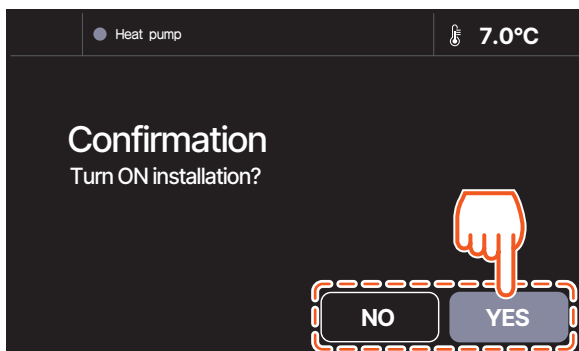
System icon turns green when the system is ON.

< System ON → OFF >

Press and hold the switch for 3seconds.

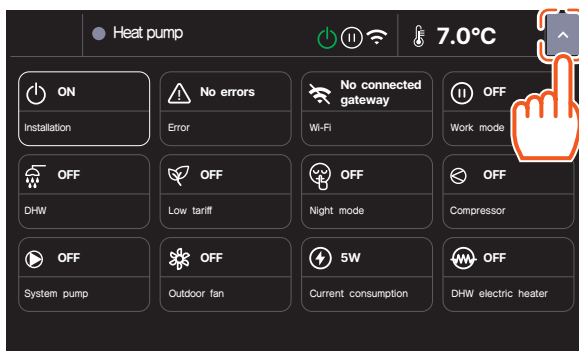
The operation has stopped.

System icon turns gray when the system is OFF.



3. To confirm, tap “YES”.

To cancel, tap “NO”.



4. Tap “Quick information” to return to “Home”.

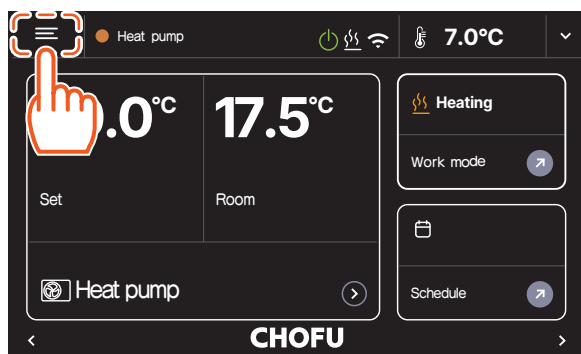
Note: In recovering from blackout, the HP unit will operate as below depending on the condition before the blackout;
The last operating condition before the blackout,

- If ON / OFF switch is OFF , the unit will recover from the blackout in OFF state.
- If ON/OFF switch is ON, the unit will recover from the blackout in the last operating mode before the blackout.

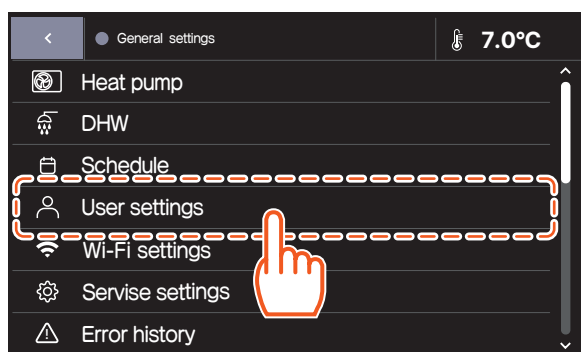
*If the blackout lasts more than 24 hours and the time band has been reset, Schedule operation will not be performed.

2. Operation and functions of Remote controller

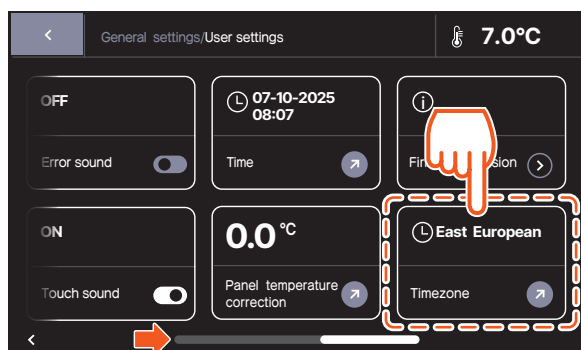
2.3 Setting the date and time



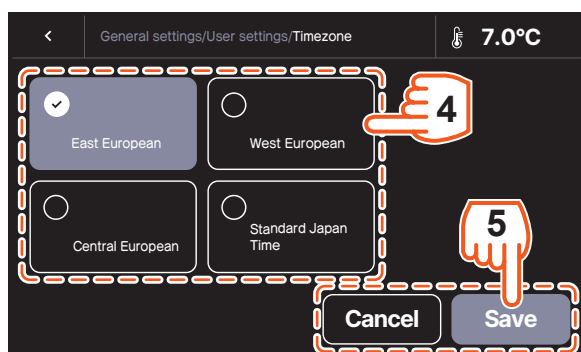
1. Tap “General settings”.



2. Tap “User settings” in “General settings MENU”

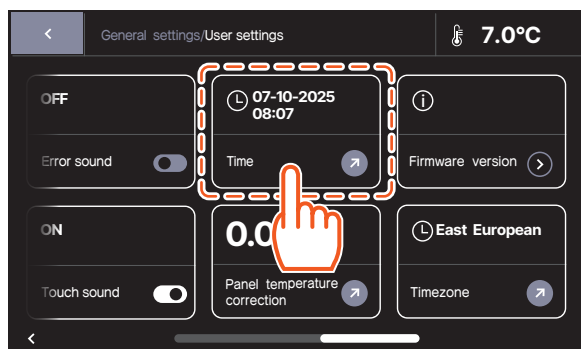


3. Tap “Timezone” in “User settings MENU”.
If “Timezone” is not displayed, please move the bottom slider to the right side.



4. Select the timezone.

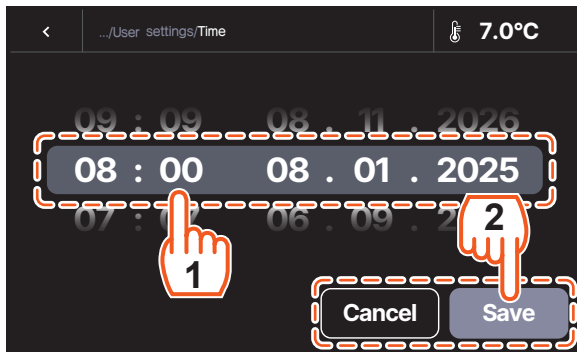
5. To apply settings, tap “Save”.
To cancel, tap “Cancel”.



6. Tap “Time”

When connected to Wi-Fi, the clock is set automatically, and no time setting is required. However, if you do not use Wi-Fi, you need to set the time manually.

2. Operation and functions of Remote controller

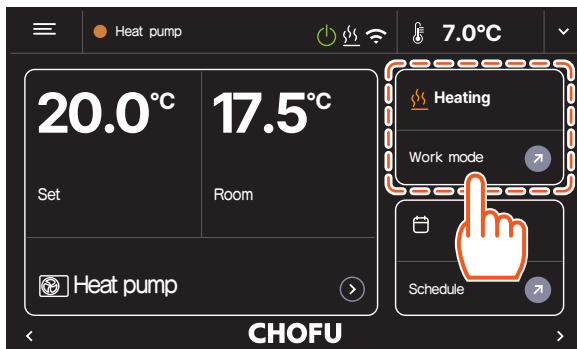


7. Set the current date and time.

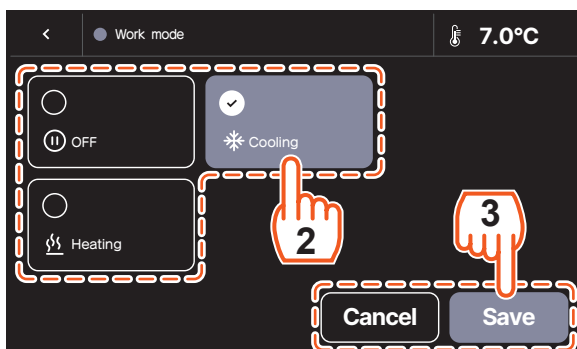
8. To apply settings, tap “Save” or “Cancel” to return.

Note : When connected to Wi-Fi, the system will automatically restore the date and time after a power outage. If Wi-Fi is not available, the date and time will be retained for up to 24 hours. If more than 24 hours have passed and the time is incorrect, please manually reset the “Date and Time” settings.

2.4 Selecting the Work mode



1. Tap “Work mode” in “Heat pump”



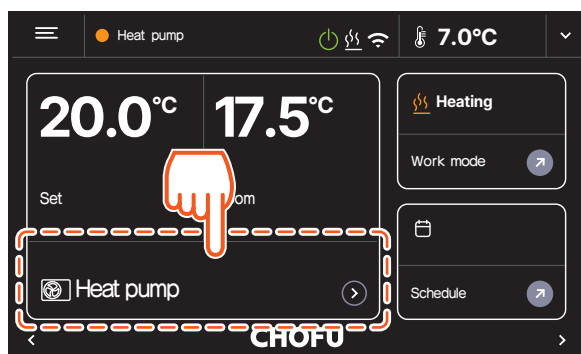
2. “Work mode” can be selected from OFF, Cooling, or Heating.

3. To apply settings, tap “Save”. To cancel, tap “Cancel”.

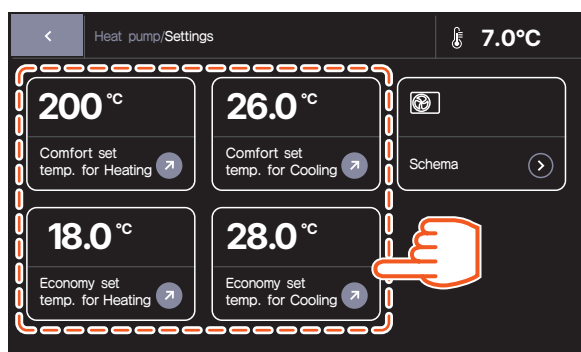
Note : When the current time is set and the time band is activated, the system operates according to the configured time band settings.

2. Operation and functions of Remote controller

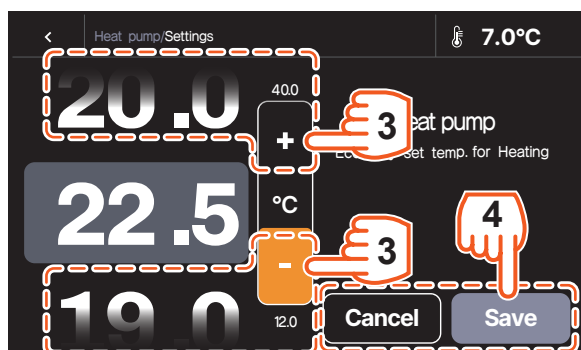
2.5 Setting the Temperature for the Heat Pump



1. Tap “Heat Pump” to access the temperature settings.



2. You can Individually set temperatures for : Heating / Cooling / Comfort / Economy modes.



3. Tap “+” or “-” to set the desired room temperature in 0.5°C increments. Press and hold the “+” or “-” buttons to speed up the number adjustment.

4. To apply settings, tap “Save”. To cancel, tap “Cancel”.

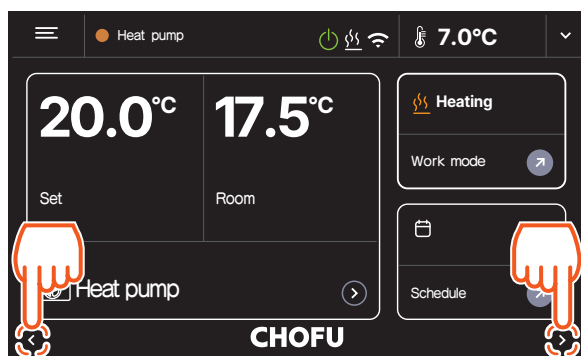
Note1 : During time band operation, the room setting temperature displayed on Remote controller is the setting temperature of current operation in Comfort or Economy.

Note2 : Even during time band operation, room setting temperature can be changed by + or - button of the Controller panel. However, when the time band of Comfort/Economy is switched, the setting Room air temperature will be changed according to Comfort/Economy.

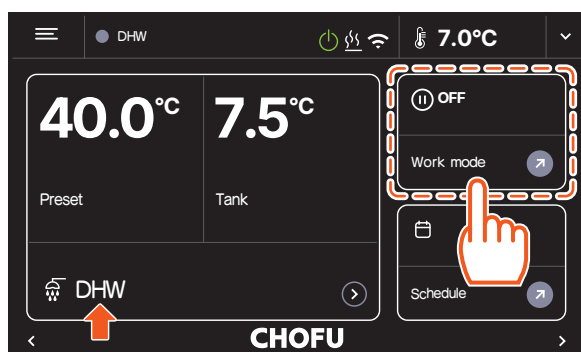
Note3 : After time band operation is turned OFF and Heating/Cooling operation is started by Mode button Heating/Cooling, the unit will start the operation according to the room setting temperature for the previous operation mode (= time band operation).
(That means, it is not the previous room setting temperature by Mode buttons.)

2. Operation and functions of Remote controller

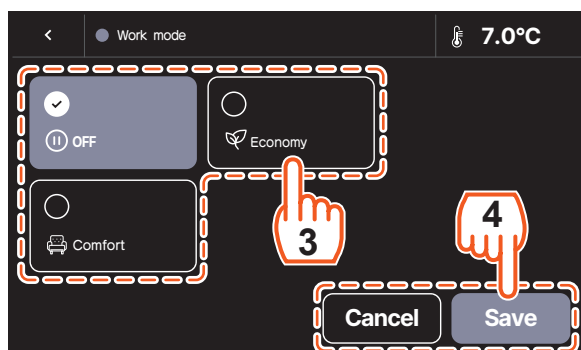
2.6 DHW(Domestic Hot Water) production



1. Tap “<” or “>” to display “DHW MENU”.



2. Tap “Work mode” in “DHW MENU”.

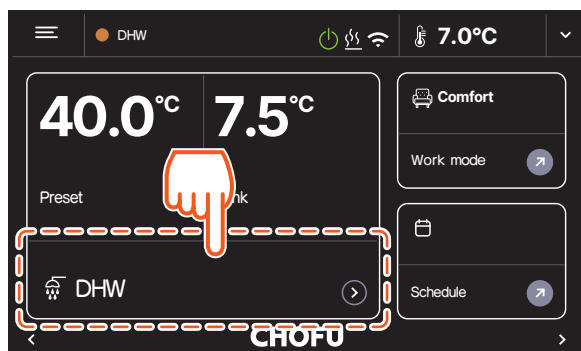


3. “Work mode” can be selected from OFF, Economy, or Comfort.

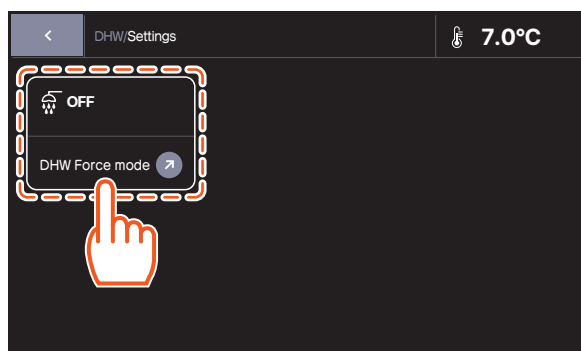
4. To apply settings, tap “Save”.
To cancel, tap “Cancel”.

2. Operation and functions of Remote controller

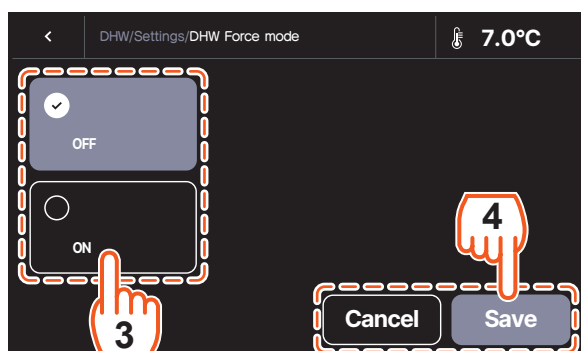
To set the DHW Force mode



1. Tap “DHW” in “DHW MENU”.



2. Tap “DHW Force mode”.



3. Select “ON” or “OFF”.

4. To apply settings, tap “Save”.
To cancel, tap “Cancel”.

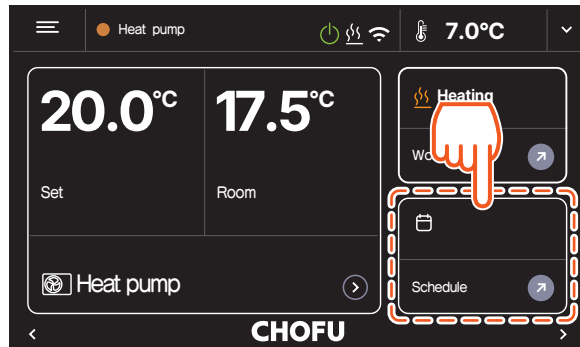
Note : The “preset” temperature is set by the installer in the parameter and cannot be changed by the user.
The actual operation and displayed temperature settings may differ due to scheduled settings or other prioritized actions.

2. Operation and functions of Remote controller

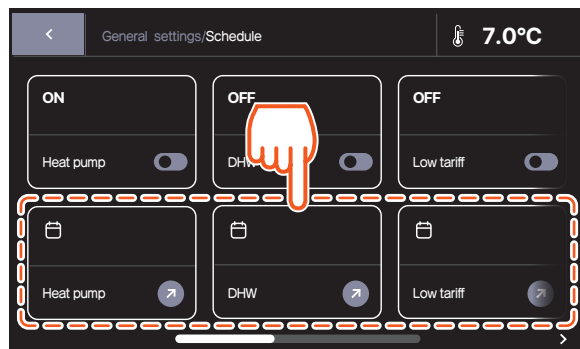
2.7 Setting the schedule for Heat Pump / DHW / Low tariff / Night mode

How to Change the Work Mode

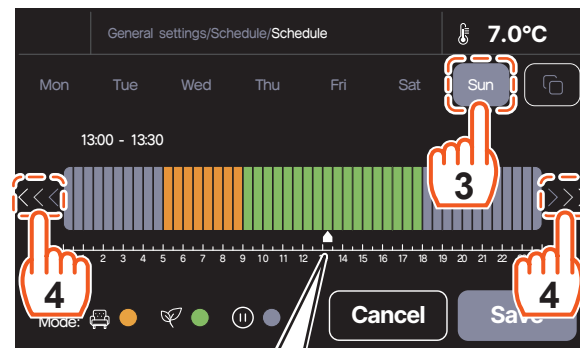
Example : Changing Work Mode from Economy” to “Comfort” (13:00–18:00)



1. Tap “Schedule”.



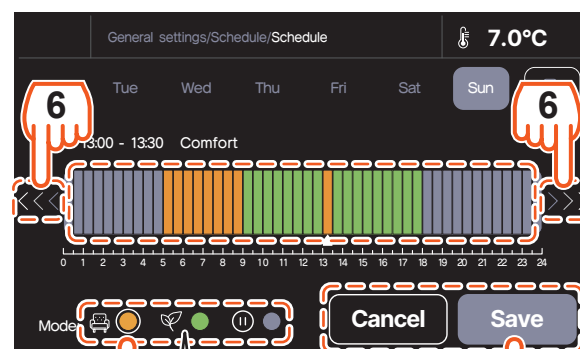
2. Select the mode.



3. Select a day of the week.

4. Tap the start time setting to select it.

Selection time



5. Tap the comfort mode to select it.

6. You can select the time band by tapping or press and hold the “>>>” or “<<<” button.

7. To apply settings, tap “Save”.

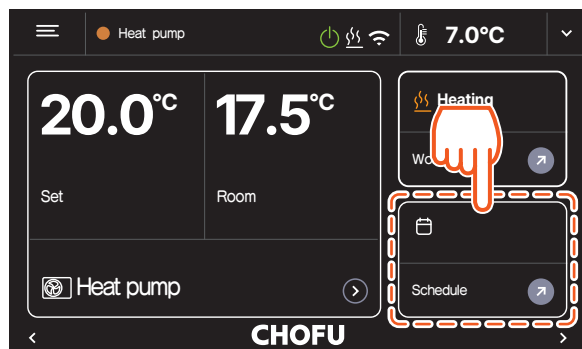
Other schedules can be changed using the same method.



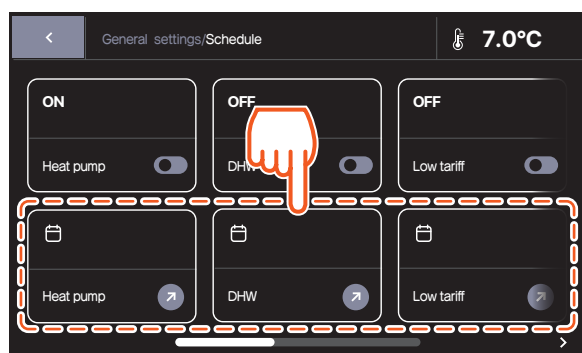
2. Operation and functions of Remote controller

How to copy the work modes to other days

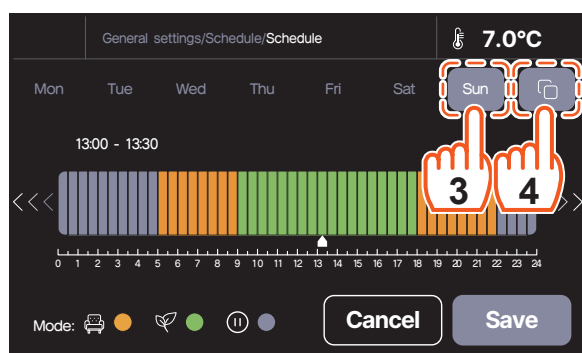
Example : Copy Sunday's schedule to Thursday



1. Tap "Schedule".

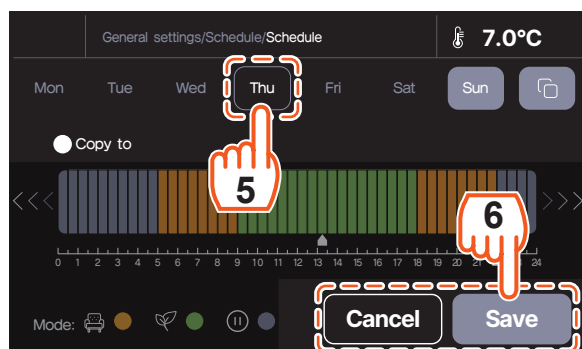


2. Select the mode.



3. Select the day you want to copy from.

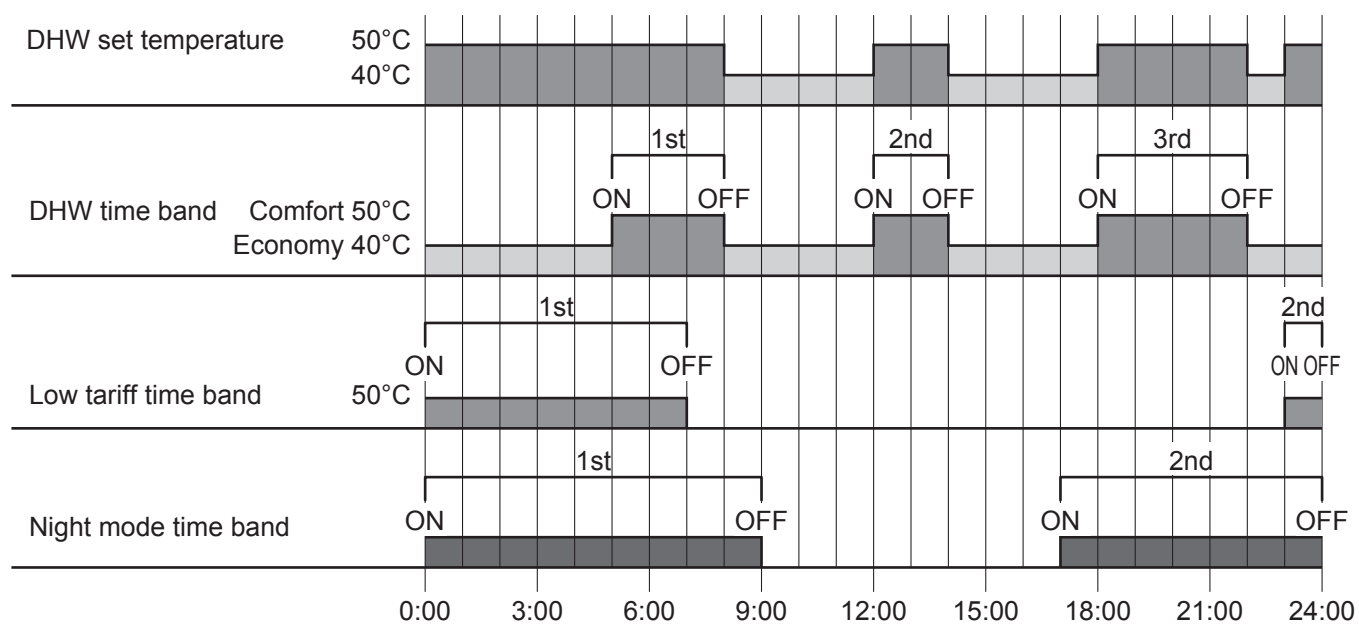
4. Tap "Copy".



5. Select the day of the week to copy to.
You can select multiple days at the same time.

6. To apply settings, tap "Save".
To cancel, tap "Cancel".

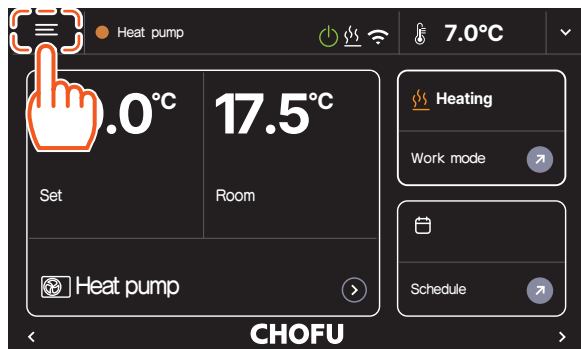
2. Operation and functions of Remote controller



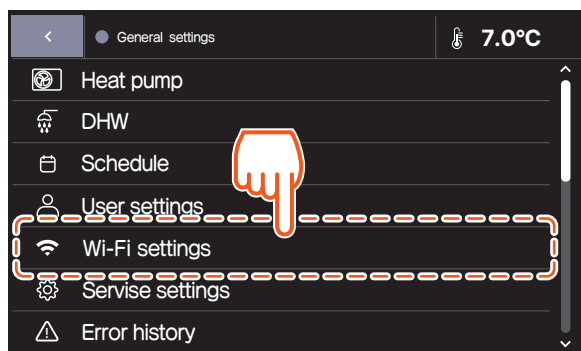
2. Operation and functions of Remote controller

2.8 Wi-Fi or Bluetooth settings

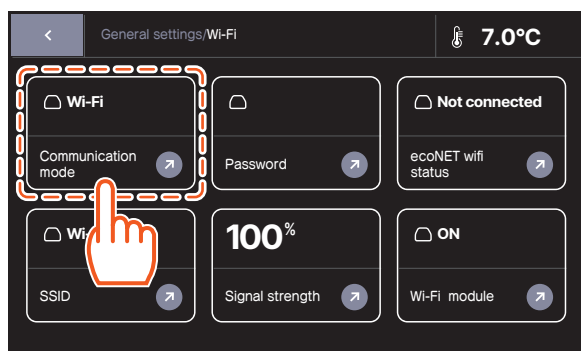
2.8.1 Communication mode



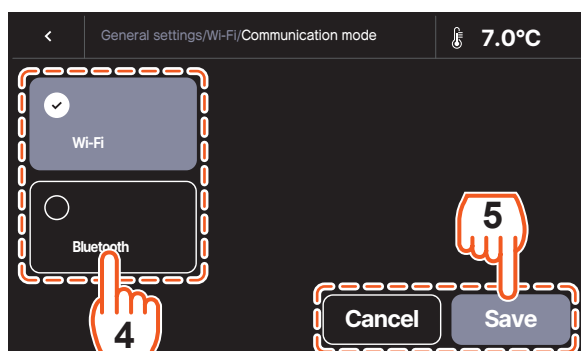
1. Tap “General settings”.



2. Tap “Wi-Fi settings”.



3. Tap “Communication mode”.



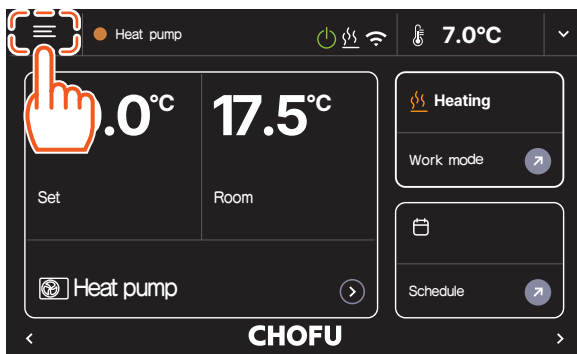
4. Tap “Wi-Fi” or “Bluetooth”.

5. To apply settings, tap “Save”.
To cancel, tap “Cancel”.

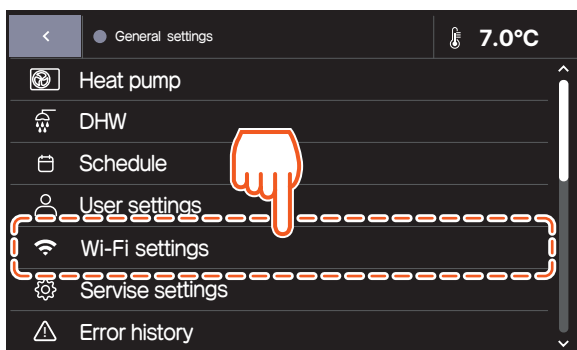
Note : If you select “Bluetooth”, “Signal strength” and “ecoNET wifi status” will no longer be displayed.

2. Operation and functions of Remote controller

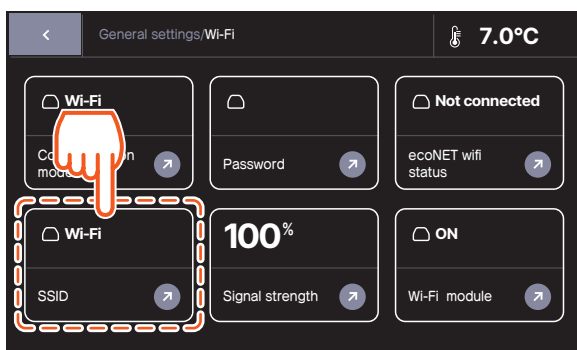
2.8.2 SSID



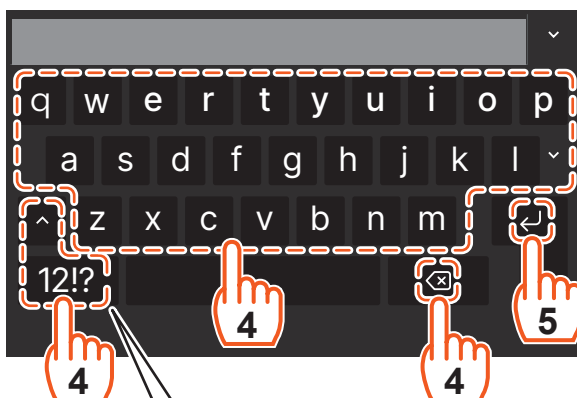
1. Tap “General settings”.



2. Tap “Wi-Fi settings”.



3. Tap “SSID”.



4. Enter the SSID.

To switch screens, tap **12!?** or **Abc** or **^**.

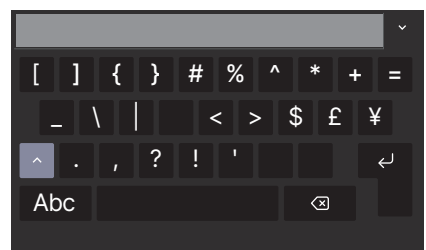
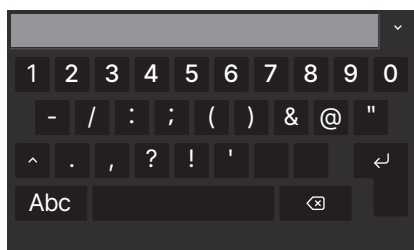
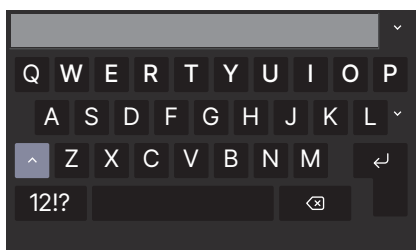
12!? : display number and symbol

Abc : display alphabet

^ : switch uppercase and lowercase, number and symbol

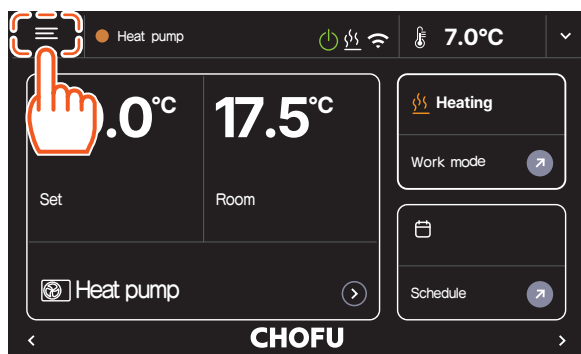
To delete, tap **[X]**.

5. Tap **[Enter]** to confirm and return to the previous screen.

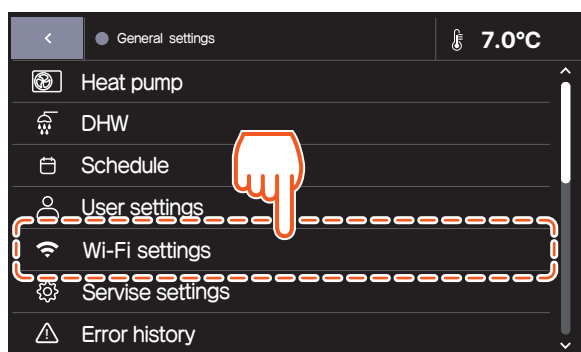


2. Operation and functions of Remote controller

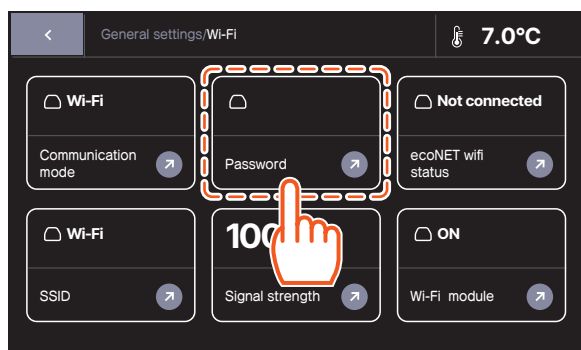
2.8.3 Password



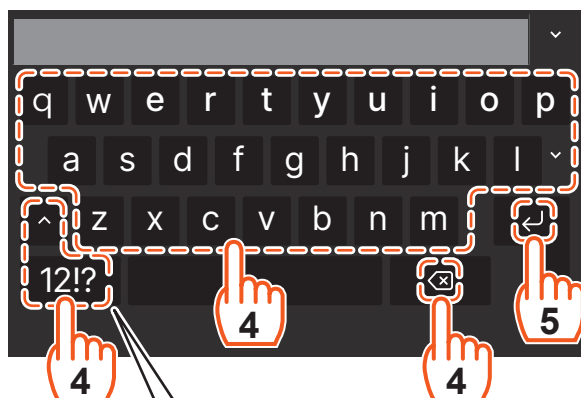
1. Tap “General settings”.



2. Tap “Wi-Fi settings”.



3. Tap “Password”.



4. Enter the SSID.

To switch screens, tap **12!/?** or **Abc** or **^**.

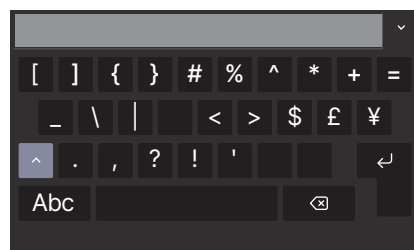
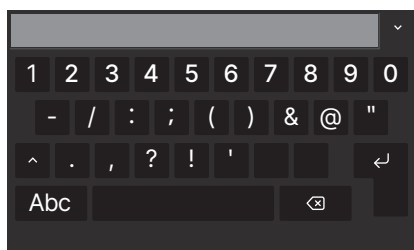
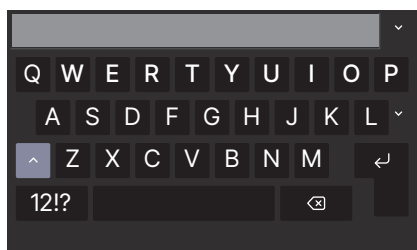
12!/? : display number and symbol

Abc : display alphabet

^ : switch uppercase and lowercase, number and symbol

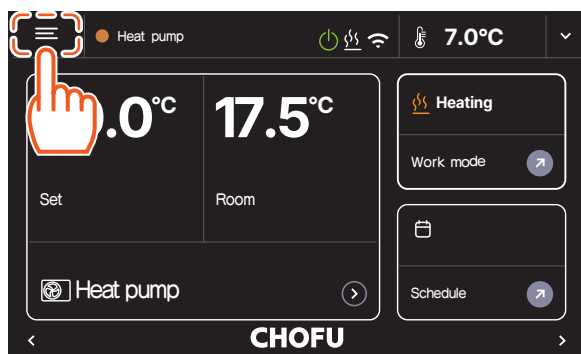
To delete, tap **[X]**.

5. Tap **[Enter]** to confirm and return to the previous screen.

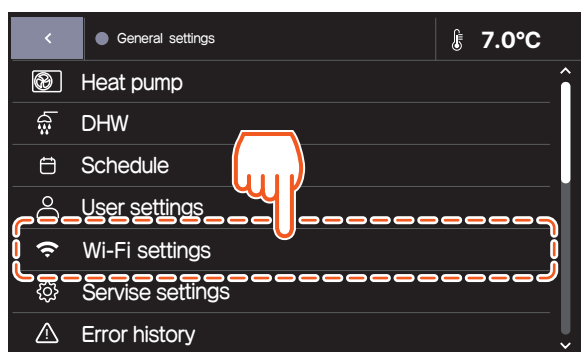


2. Operation and functions of Remote controller

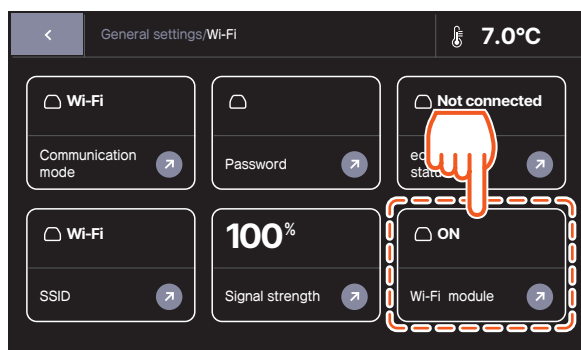
2.8.4 Wi-Fi module



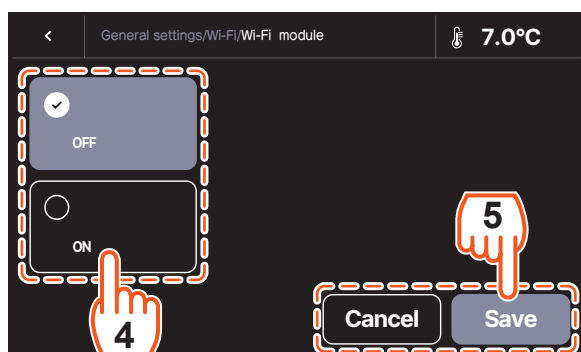
1. Tap “General settings”.



2. Tap “Wi-Fi settings”.



3. Tap “Wi-Fi module”.



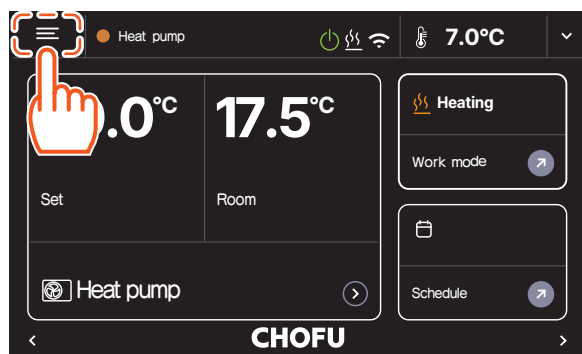
4. Tap “ON” to enable Wi-Fi.

5. To apply settings, tap “Save”.
To cancel, tap “Cancel”.

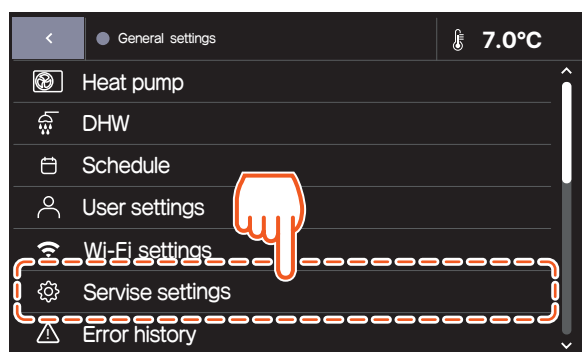
Note : If you cannot connect to Wi-Fi, or if the connection is lost and cannot be restored, try turning the Wi-Fi module "OFF" and then "ON" again to reset the connection. After turning it back on, please wait for about one (1) minute until the Wi-Fi restarts.

2. Operation and functions of Remote controller

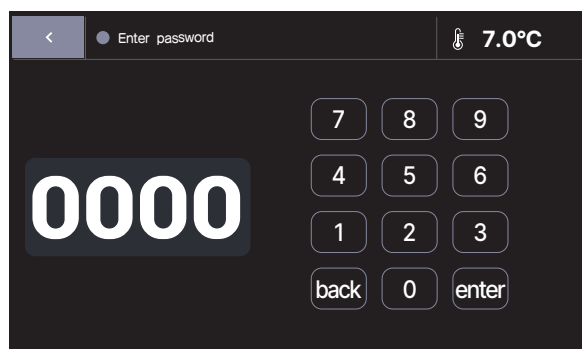
2.9 USER level



1. Tap “General settings”.



**This menu is for service use only.
It is not available.**



3. How to get Comfy Connect CHOFU



Before Setup

To ensure a smooth installation process, please prepare the following:

- A valid email address for App registration.
- A stable Wi-Fi environment to enable Comfy Connect CHOFU functionality.

3.1 Download Comfy Connect CHOFU App

Android



https://play.google.com/store/apps/details?id=com.chofu.comfyconnectchofu&pcampaignid=web_share

iOS

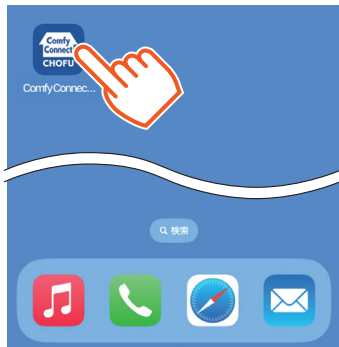


<https://apple.co/41yCQXk>

3. How to get Comfy Connect CHOFU

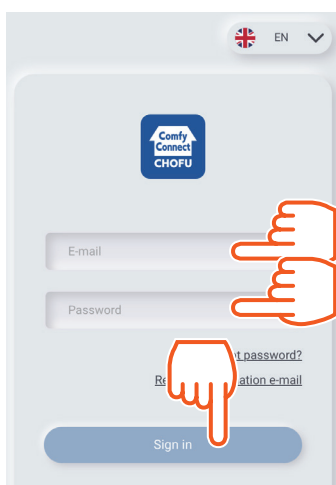
3.2 Create Your Account

To begin using the Comfy Connect CHOFU app, follow these steps to create your account:



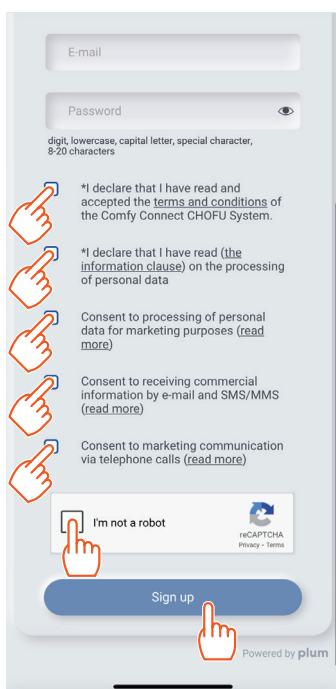
1. Tap “Comfy Connect CHOFU” to launch.

2. Tap “Create account” to start registration.



3. Enter your details.

- Type your email address
- Create a password (8-20 characters).
 - Must include : uppercase letter, lowercase letter, number and special character (e.g.ABab12##).



4. Carefully read all terms and conditions.

Check the first two boxes to proceed.

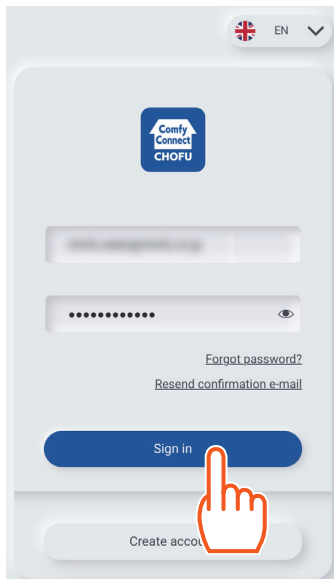
Then, check the security system box at the bottom. You will receive a confirmation email from no-reply@plum.pl to activate your account.

Open the email and tap “Confirm account” to complete application.

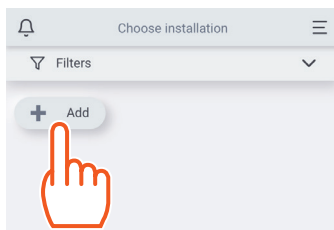
Once confirmed, your account setup is complete and ready to use.

3. How to get Comfy Connect CHOFU

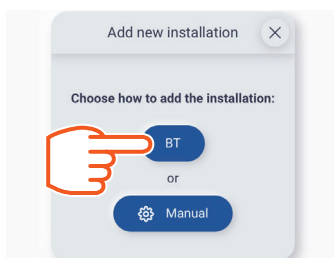
3.3 Connect Remote Controller



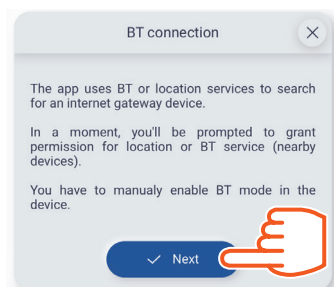
1. Open the app, enter your login info, and tap “Sign in.”



2. Tap “Add” to begin connecting your remote controller.

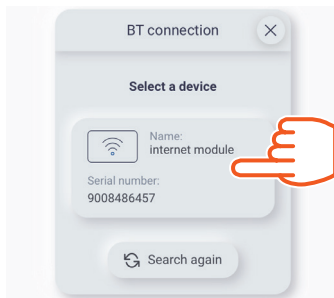


3. Select “BT”(Bluetooth) or “Manually”.
The following steps apply to the “BT connection” method.

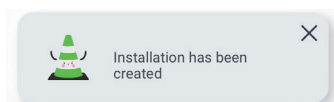
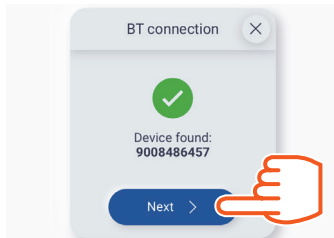


4. Tap “I understand” to agree to the Bluetooth policy.

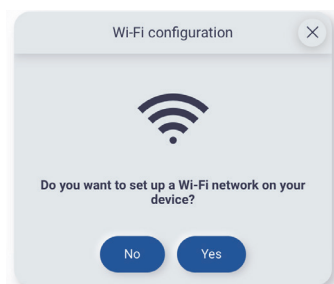
3. How to get Comfy Connect CHOFU



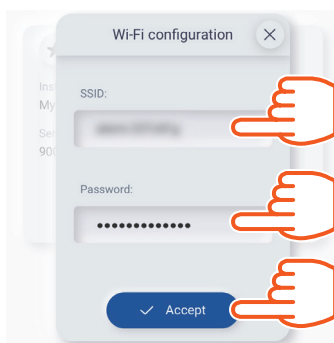
5. Find the serial number (SN) on the module's plate (e.g. 9008486457), located under the mounting frame photo. Select the matching module from the list.



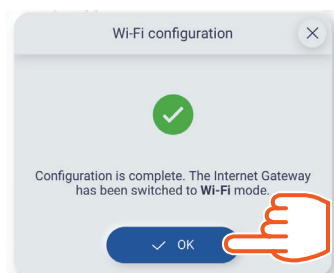
6. A message will appear confirming the new installation.



7. Tap "Yes" to set up Wi-Fi, or "No" to return to the home screen.



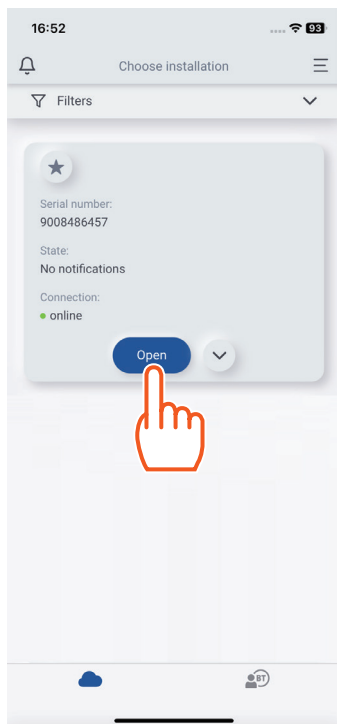
8. Enter your Wi-Fi network name (SSID) and password.



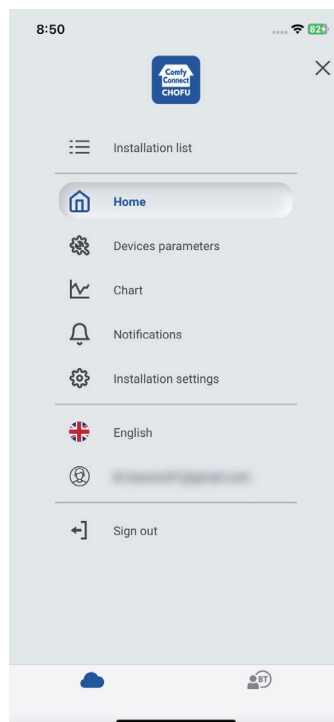
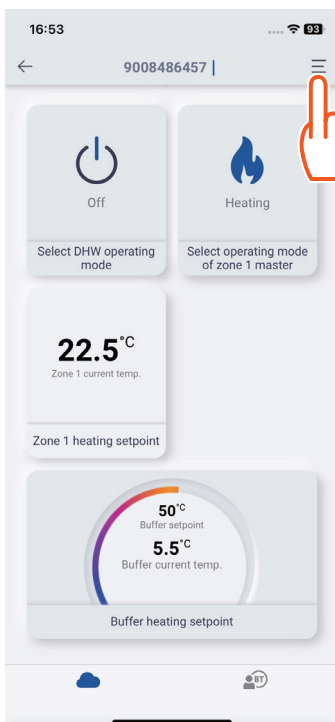
9. Once the correct network info is entered, the module will automatically switch to Wi-Fi mode.

3. How to get Comfy Connect CHOFU

3.4 How To Use App



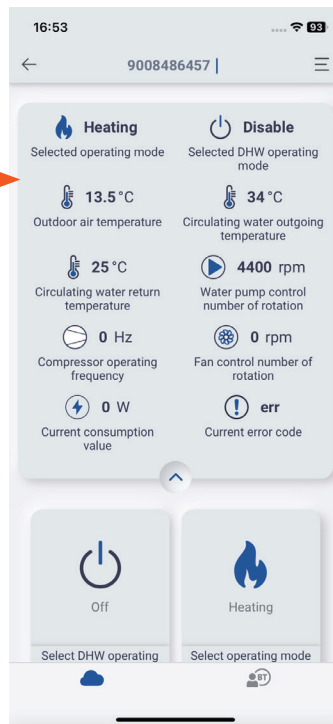
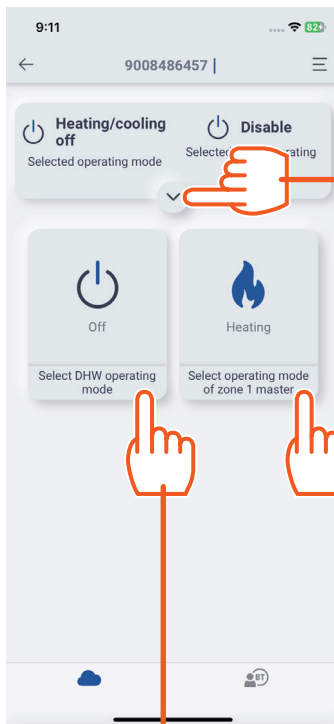
1. Tap “Open” to access the page for your connected device.



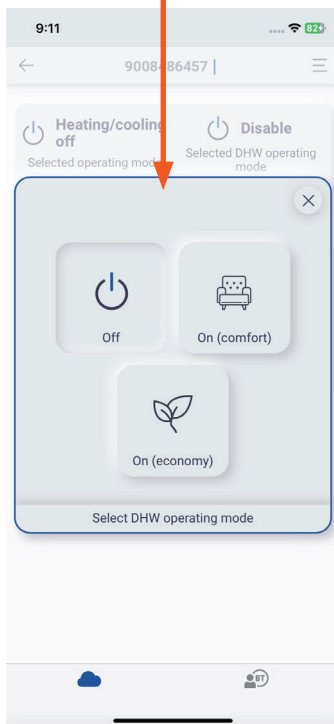
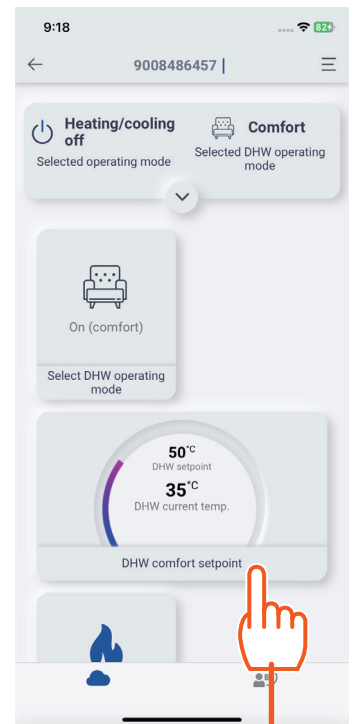
2. Tap the menu icon [≡] in the upper right corner to explore additional functions.

3. How to get Comfy Connect CHOFU

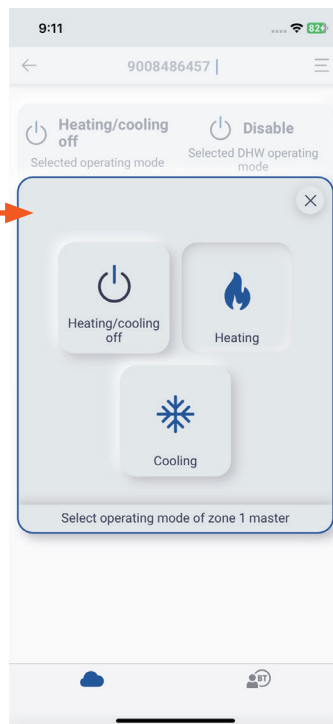
Home



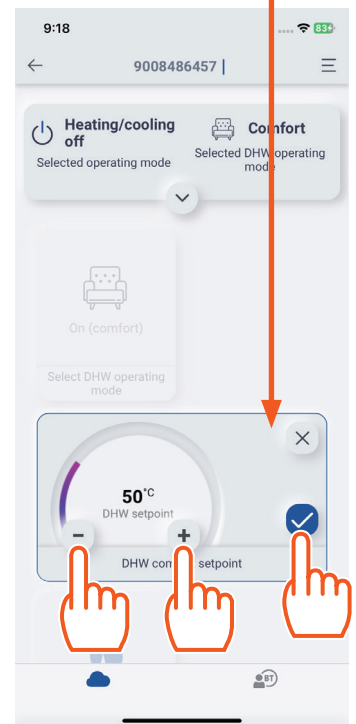
Your current status can be viewed anytime.



Select DHW operating mode



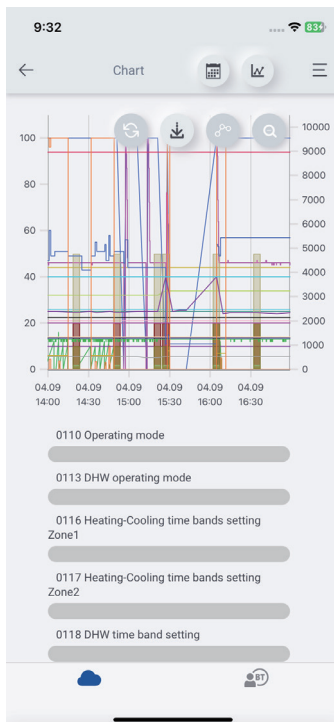
Select operating mode of zone 1 master



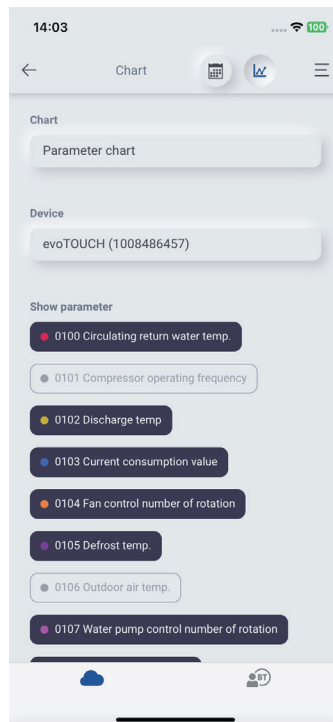
Adjust setpoint

3. How to get Comfy Connect CHOFU

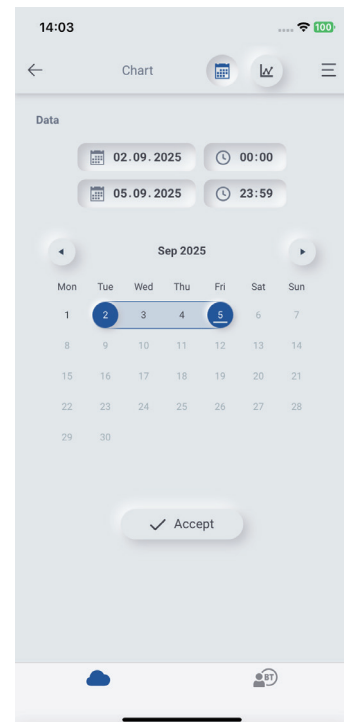
Chart



Check the heat pump's usage history



Filter the values you want to check



Choose the period you want to check