Air/water Heat pump

Control Panel

Commissioning Guideline

User Manual

Thank you for choosing an Argoclima heat pump. Please read this manual carefully before using the unit and retain it for future reference.

Rev.01-09/22

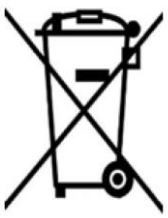
To Users

Thank you for selecting Argo's product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

(1) This instruction manual is a universal manual, some functions are only applicable to particular product. All the illustrations and information in the instruction manual are only for reference.
(2) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation without further notice.
(3) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging, unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.
(4) The final right to interpret for this instruction manual belongs to Argoclima Spa.

Safety Notices (Please be sure to abide)

Do not install the control where it is damp or exposed to direct sunlight.
Once the air conditioning unit is installed where possibly subject to electromagnetic interference, shielded twisted pairs should be used as signal lines and other communication lines.
Be sure communication lines are wired to the correct ports, or normal communication would fail.
Do not beat, toss or frequently assemble and disassemble this control.
Do not operate the control with wet hands!.



INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 2012/19/EU

At the end of its working life this equipment must not be disposed of as an household waste. It must be taken to special local community waste collection centres or to a dealer providing this service. Disposing of electrical and electronic equipment separately avoids possible negative effects on the environment and human health deriving from an inappropriate disposal and enables its components to be recovered and recycled to obtain significant savings in energy and resources. In order to underline the duty to dispose of this equipment separately, the product is marked with a crossed-out dustbin.

SUMMARY

1 USER INTERFACE

1.1 General

Fig. 1 Home page

This display panel uses the capacitor touch screen for input operation. The valid touching area indicates the black rectangle when the display panel lights off.

This control panel is of high sensitivity and will response to unexpected click by the foreign matters on the display panel. Therefore, please keep it clean during operation.

Icon	Description	Icon	Description
	Space heating		Outdoor temperature
	Space cooling		Leaving water temperature of the main unit, leaving water temperature of the auxiliary electric heater, remote room temperature
	Water heating		Error
	Menu		Card out/Failed disinfection
	Switchover between cooling and heating		ON/OFF
	Child lock		

Notes:

- The ON/OFF icon will turn to green when the control is turned on;
- When the control mode is “Room temperature”, the temperature displayed at the upper right corner indicates the remote room temperature; when the control mode is “leaving water temperature”, it indicates the leaving water temperature of the auxiliary electric heater under the water heating mode, or the leaving water temperature of the main unit under the cooling/heating mode or combined modes;
- Under the combined modes, the temperature set point is for space heating or cooling. Only under the water heating mode, it is for water heating.
- At any other page, where there is no operation in 10 minutes, the display panel will back to the menu page.

1.2 Menu Page

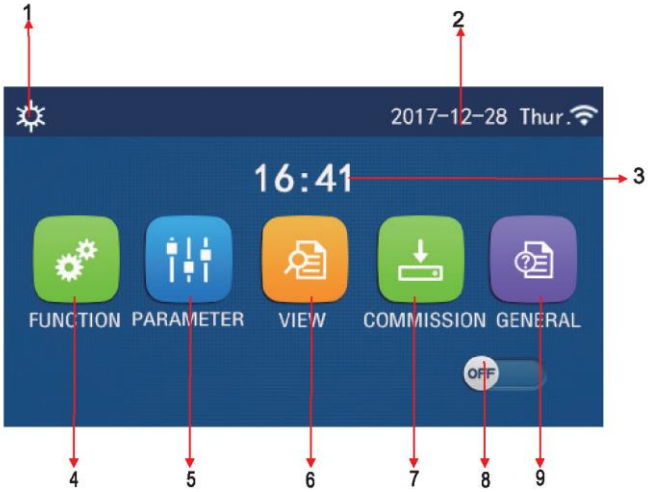


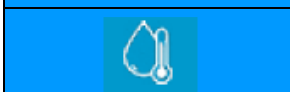
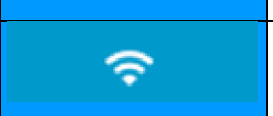
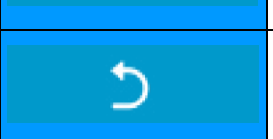
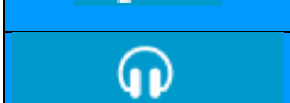
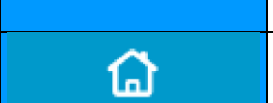
Fig.2: Menu page

No.	Item	Description
1	Current mode	Current mode
2	Date	Current Date
3	Time	Current Time
4	Function setting	Go to the user setting page.
5	Parameter setting	Go to the Parameter setting page.
6	Parameter viewing	Go to the Parameter viewing page.
7	Commissioning parameters	Go to the Commissioning parameters setting page.
8	ON/OFF	It is used to turn on or off the unit. OFF indicates the unit has turned off and ON indicates the unit has turned on. When there is failure level error, this button will turn to OFF once the uniti s automatically turned off.
9	General setting	Go to the General parameter setting page.
10	Homepage	Back to the Homepage.

Once it is turned on the display will show the Home page.
From this page:

- User menu can be selected;
- The unit can be turned on or off;
- Info on operating mode, active errors, date and time can be viewed

Above the menu, the corresponding icon will be displayed based on the mode and status of the controller.

Icon	Description	Icon	Description
	Heating		Floor commissioning
	Cooling		Floor commissioning error
	Hot water		Card out
	Heating + Hot water		Defrosting
	Hot water + Heating		Holiday
	Cooling + Hot water		WiFi
	Hot water + Cooling		Back
	Quiet		Menu page
	Sanitation		Save
	Emergency		Error

Notes:

- The cooling mode is unavailable to the heating only unit.
- The Hot water mode is unavailable to the heating only unit.
- The Heating+Hot water (Hot water takes priority) is unavailable to the mini chiller.
- The Hot water+ Heating (Heating takes priority) is unavailable to the mini chiller.
- The Cooling+Hot water (Hot water takes priority) is unavailable to the mini chiller.
- The Hot water+ Cooling (Cooling takes priority) is unavailable to the mini chiller.
- The Sanitation fuinctionis unavailable to the mini chiller.

WARNING: if the energy saving funtion is activated (suggested setting to improve the lifespan of the display), after no operation for 5 minutes the display will turn off; to reactivate simply touch the display (in any part of the active area).

2 MENU STRUCTURE

Functions		• Mode *(pag.19)* • Fast hot water *(pag.19)* • Cool + hot water *(pag.19)* • Heat + hot water *(pag.20)* • Quiet mode *(pag.20)*	• Weather depend *(pag.20)* • Weekly timer *(pag.21)* • Holiday release *(pag.22)* • Disinfection *(pag.22)* • Clock timer *(pag.23)*	• Temp. timer *(pag.24)* • Emergency mode *(pag.25)* • Holiday mode *(pag.25)* • Preset mode *(pag.26)* • Reset Error *(pag.26)*	• WiFi *(pag.27)* • Reset *(pag.27)* • Child lock (pag.27)
Visual		• Status *(pag.30)* • Parameter *(pag.31)* • Error *(pag.32)* • Error log *(pag.33)* • Version *(pag.33)*	—	—	—
Parameters		• WOT-Cool *(pag.28)* • WOT-Heat *(pag.28)* • RT-Cool (pag.28) • RT-Heat *(pag.28)*	• ΔT Room *(pag.28)* • ΔT Cool *(pag.28)* • ΔT DHW *(pag.28)* • T DHW tank *(pag.28)*	—	—
Commissioning	**Functions**	• Control logic *(pag.9)* • Cool 2-Way valve *(pag.9)* • Cool 2-Way valve *(pag.9)* • Solar setting *(pag.9)* • Water tank *(pag.10)*	• Thermostat *(pag.10)* • Other thermal *(pag.11)* • Optional E-Heater *(pag.12)* • Remote sensor *(pag.12)* • Air removal *(pag.12)*	• Floor debug (pag.13) • Manual defrost (pag.13) • Force mode (pag.14) • Gate-Ctrl (pag.14) • C/P limit (pag.14)	• Address (pag.14) • Refri. recovery (pag.15) • Tank heater (pag.15) • Gate-Ctrl memory (pag. 15) • 3-Way valve (pag.16) • Hot water control mode (pag.16)
	Parameters	• T HP max *(pag.17)*	—	—	—
General		• Temp. unit *(pag.6)* • On/Off memory *(pag.6)* • Beeper *(pag.6)* • Back light *(pag.6)* • Time&date *(pag.6)*	• Language *(pag.6)* • WiFi *(pag.6)*	—	—

3 Basic functions

3.1 On/Off

Fig. 3: Turning ON

To turn the unit on or off press the button as shown in fig. 3.
A confirmation message will appear, to continue or discard the request.

Notes:

- It is defaulted to be OFF upon first power-on.
- ON/OFF operation will be memorized by setting “On/Off Memory” to be “On” at the “GENERAL.” setting page. That is, in case of power failure the unit will resume running upon power recovery. Once “On/off Memory” is set to be “Off”, in case of power failure the unit will keep “Off” upon power recovery.

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3.2 Menu selection

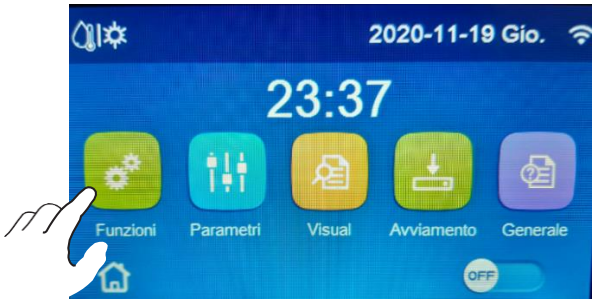


Fig. 4: Selecting icon

At the menu page, by touching one of the icons, it will go to the relevant setting page as shown in the figure 4.

4 GENERAL MENU

4.1 Browsing the menu

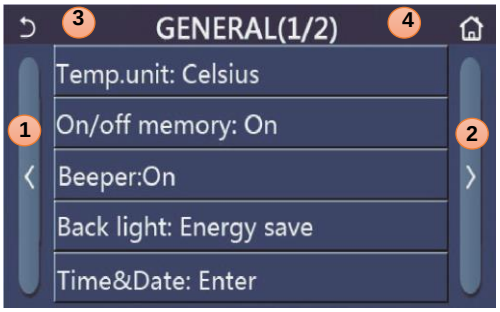


Fig. 5: General Setting Page

At the menu page, by touching “GENERAL”, the control panel will go to the setting page, as shown in figure 5.

To browse in the menu:

1. Go to previous page;
2. Go to next page;
3. Back to upper menu;
4. Back to Home page.

To access a function click on the relevant text.

Note: while browsing in the menu, the darker background heading shows the present menu name.

Setting immediately language, time and date is recommended.

Available functions:

- **Temp.unit:** Celsius or Fahrenheit can be selected;
- **On/off memory:** Parameter and Function settings can be saved to be available after power shortage
- **Beeper:** the sound of each display touch can be activated or deactivated;
- **Back light:** the backlight can be set to be always on or turned off after no operation is performed for 5 minutes.
- **Time & Date:**

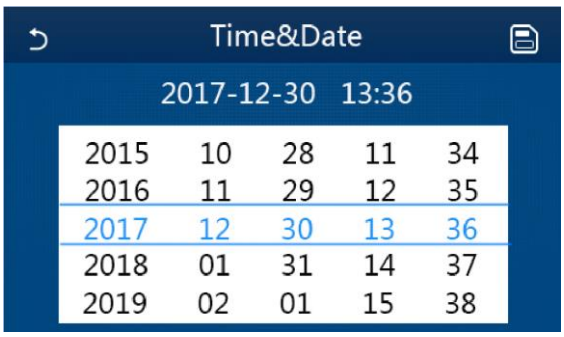


Fig. 6: Time & Date

The date and time can be set and saved with the upper right button.

- **Language:** language can be set among: Italian, English, Spanish, Dutch, French, German, Polish, Turkish, Hungarian, Lithuanian, Croatian, Czech, Finnish, Swedish, Serbian, Russian, Ukrainian, Belarusian, Macedonian, Greek;
- **WiFi:** This function enables wifi communication to use the dedicated APP.

5 COMMISSIONING GIUDELINE

5.1 Commissioning Parameter Setting

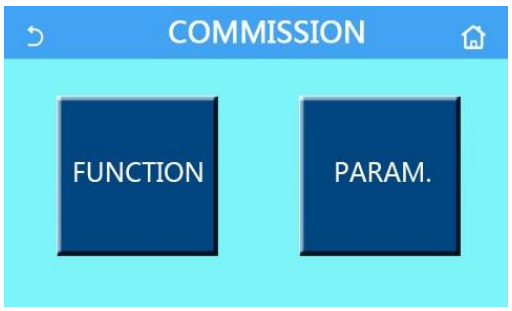


Fig. 7: Commission page

At the menu page, by touching “Commission” and then entering the correct password (000048) in the pop-up window, the commission page will be accessed, as shown in fig.7.

This menu is divided in two groups:

- **Function:** functions and settings for the unit operation;
- **Param.:** operating parameters.

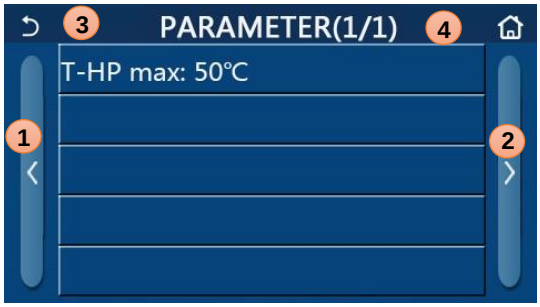


Fig. 8: Parameter page

To browse in the menu:

1. Go to previous page;
2. Go to next page;
3. Back to upper menu;
4. Back to Home page.

To access a function/parameter click on the relevant text.

WARNING: Do not modify any commissioning parameter except the approved qualified servicemen, as it could give birth to adverse effects to the unit and/or to the system and/or injury to the people.

Note: At the commissioning parameter setting page, when the state of any function changes, the system will automatically save this change and this change will remain upon power failure.

Commissioning Function Setting:

No.	Item	Range	Default	Description
1	Ctrl. state	T-water out/T-room	T-water out	When "**Remote sensor**" is set to "**With**", it can be set to "**T-room**".
2	2-Way valve	Cool 2-Way valve, On/Off	Off	It will decide the status of the 2-way valve under the "**Cool**" and "**Cool + Hot water**" modes. Under "Cool" or "Cool + Hot water" mode, the status of the 2-way valve depends on this setting. This setting is unavailable to heating only units.
		Heat 2-Way valve, On/Off	On	It will decide the status of the 2-way valve under the "**Heat**" and "**Heat + Hot water**" modes
3	Solar setting	With/Without	Without	When the water tank is unavailable, this setting will be reserved. When it is set to "**With**", the solar kitting will work on its own. When it is set to "**Without**", hot water by the solar kitting is unavailable.
4	Water tank	With/Without	Without	Unavailable to mini chillers.
5	Thermostat	Without/Air/Air+ hot water/ Air+ hot water2	Without	This setting cannot be interchanged among "**Air**" , "**Air+ hot water**" and "**Air+ hot water2**" directly but via "**Without**" this option.
		On/Off	Off	This setting is available to mini chillers.
6	Other thermal	With/Without	Without	/
7	Optional E-Heater	Off/1/2	Off	/
8	Remote sensor	With/Without	Without	When it set to "Without", and the "Ctrl. state" will be defaulted to be "T-water out".
9	Air removal	On/Off	Off	/
10	Floor debug	On/Off	Off	/
11	Manual defrost	On/Off	Off	/
12	Force mode	Off/Force-cool/Force-heat	Off	"Force-cool" is unavailable to heating only units.
13	Tank heater	Logic 1/Logic 2	Logic 1	1. This setting is allowed when the water tank is available and the unit is OFF. 2. Unavailable to mini chillers.
14	Gate-Ctrl.	On/Off	Off	/
15	C/P limit	Off/Current limit/Power limit	Off	Current limit: it ranges from 0 to 50A and the default is 16A. Power limit: it ranges from 0.0 to10.0kW and the default is 3.0kW.
16	Address	[1-125] [127-253]	1	/
17	Refri. recovery	On/Off	Off	/
18	Gate-Ctrl memory	On/Off	Off	/
19	3-Way valve1	Without/DHW/AIR	Without	/
20	Hot water control mode	Auto/Manual	Auto	This setting is only valid for the second generation Monobloc units and invalid for others.

Commissioning Parameters Setting:

No.	Full Name	Display Name	Range		Default	Remark
1	T-HP max	T-HP max	40~55°C	104~131°F	50°C/122°F	

6 COMMISSIONING - STEP 1 - FUNCTIONS

FUNCTION

6.1 Control logic - Ctrl. state

Fig. 9: Ctrl. State page

At the commissioning parameter setting page, by touching “Ctrl. state”, it can be set to “T-water out” or “T-room” (if the Air Temperature Sensor is installed and connected). Press OK to save the selection.

To set the T-room option the Air Temperature Sensor must be enabled (see par. 6.8).

Notes:

- When “Remote sensor” is set to “With”, this setting can be set to “T-water out” or “T-room”. When “Remote sensor” is set to “Without”, this setting can only be set to “T-water out”.
- This setting will be memorized upon power failure.

6.2 Cool 2-Way valve

At the commissioning parameter setting page, by touching “Cool 2-Way valve”, the control panel will access to the corresponding setting page. Press OK to save the selection.

Notes:

- Selecting the “Off” state, the valve will be CLOSED in Cool mode, while it will be OPEN if “On” is selected;
- It will be memorized upon power failure.

6.3 Heat 2-Way valve

At the commissioning parameter setting page, by touching “Heat 2-Way valve”, the control panel will access to the corresponding setting page. Press OK to save the selection.

Notes:

- Selecting the “Off” state, the valve will be CLOSED in Heat mode, while it will be OPEN if “On” is selected;
- It will be memorized upon power failure.

6.4 Solar setting (CURRENTLY NOT AVAILABLE)

At the commissioning parameter setting page, by touching “Solar setting”, the control panel will access to its submenu page. At the submenu page, “Solar setting” can be set to “With” or “Without”. At the submenu page, the “Solar heater” can be set to “On” or “Off”.

Notes:

- This setting can be done no matter if the unit is turned on or off.
- This setting is allowed only when the water tank is available. When the water tank is unavailable, this setting will be reserved.
- It will be memorized upon power failure.

6.5 Water tank

At the commissioning parameter setting page, by touching “Water tank”, the control panel will access to the corresponding setting page, where “Water tank” can be set to “With" or "Without".

Notes:

- If the Tank is not installed, the DHW functions will NOT be available.
- This setting will be memorized upon power failure.
- This setting will become valid only when the unit is turned off.

6.6 Thermostat (Works only if the thermostat is properly wired to the unit’s terminals)

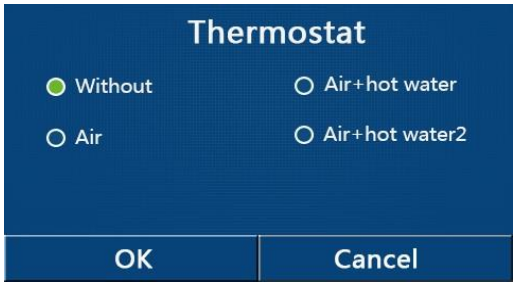


Fig. 10: Thermostat page.

At the commissioning parameter setting page, by touching “Thermostat”, the control panel will access to the corresponding setting page.
At the “Thermostat” setting page, it can be set to “Air”, “Without”, “Air + hot water” and "Air + hot water2". When it is set to “Air”, “Air + hot water” or "Air + hot water2", the unit will run based on the mode set by the thermostat; when it is set to “Without”, the unit will run based on the mode set by the control panel.
.
N.B: THE THERMOSTAT CAN NOT BE ENABLED IF THE AIR TEMPERATURE SENSOR IS SET FOR TEMPERATURE CONTROL.

Notes:

- **The unit control panel will be disabled when the Thermostat is set for system management.**
- The unit must be OFF to change the Thermostat setting.
- When “Water tank” is set to “Without”, the “Air + hot water” or "Air + hot water2" mode is unavailable.
- When “Floor debug” and “Emergen.mode” have activated, function of the thermostat will be invalid.
- When “Thermostat” is set to “Air”, “Air + hot water” or "Air + hot water2”, “Temp.timer” will be deactivated automatically and the unit will run based on the mode set by the thermostat. Meanwhile, mode setting and On/Off operation by the control panel will be ineffective.
- When “Thermostat” is set to “Air”, the unit will run based on the setting of the thermostat.
- When “Thermostat” is set to “Air + hot water”, when the thermostat is turned off, the unit can still perform the “Hot water” mode. In this case, the ON/OFF icon at the homepage does not indicate the running status of the unit. Running parameters are available at the parameter viewing pages.
- When “Thermostat” is set to “Air + hot water”, operation priority can be set by the control panel (see Section 2.2.3 and 2.2.4 for more details.)
- When the “Thermostat” is set to “Air + hot water2” **(CURRENTLY NOT AVAILABLE)**, there are two kinds of responses for the units. For one, if CN26 receives the “OFF” signal (dry contact, 0Vac), the unit will take the priority to “Hot water”. Once operation conditions for “Hot water” are ready, the unit will run for “Hot water”. Then, when “Hot water” is satisfied, the unit will run on the demands of the thermostat. For the other, if CN26 has not received the “OFF” signal, the unit will run on the demands of the thermostat.
- The status of the thermostat can be changed only when the unit is turned off.
- When it has been activated, “Floor debug”, “Air removal”, and “Emergen.mode” are not allowed to be activated.
- This setting will be memorized upon power failure.

6.7 Other thermal

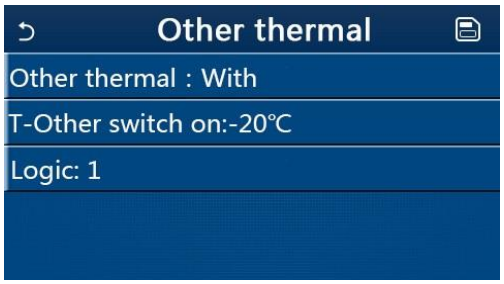


Fig. 11: Other thermal page

Other thermal example:

This setting requires a correct installation of the other thermal unit (accordingly to the relevant manual); the logic shall be selected based on the specific system details.

At the commissioning parameter setting page, by touching “Other thermal”, the control panel will access to the corresponding setting page. At the “Other thermal” setting page, “Other thermal” can be set to “With” or “Without”, “T-Other switch on” can be set to the desired value. When “Other thermal” is set to “With”, it is allowed to set the operating mode for the backup thermal source.
Available logics are:

- **Logic 1:** this logic allows to give consent to the operation of the auxiliary heat source to satisfy the requests of the system side only; the 3-way valve will be blocked on the system side and any requests from the domestic hot water side will be satisfied using the electrical resistance of the DHW tank;
- **Logic 2:** this logic allows to give consent to the operation of the auxiliary heat source to satisfy the requests of both the system side and the domestic hot water side; keeping the management of the diverter valve active by the unit;
- **Logic 3:** this logic deactivates the heat pump and activates a 230V signal at the "Other thermal" terminals, with which to activate the auxiliary heat source, which will operate in a stand-alone manner with respect to the unit.

Save the entered data by clicking on the button at the top right as shown in fig. 11.

Notes:

- Once this function is activated, it will give consent to switch on the auxiliary heat source (via a signal in 230V~50Hz at the terminals indicated as "Other thermal") in the case which the external temperature drops below the value specified in the parameter “T other switch on", or if the "Emergency mode" is activated;
- If "Logic 1" or "Logic 2" is selected, the auxiliary heat source must be set in such a way as to produce hot water with a set equal to that chosen for the heat pump, this setting must also be performed manually by the user, as the heat pump only provides a consent without the possibility of changing the value of the hot water production set on the auxiliary heat source;
- If "Logic 2" is selected, the system must be designed in such a way as to supply the terminal side of the system and the DHW side with water at the same temperature (therefore the system -side terminals must necessarily include special mixing valves to ensure correct management of the incoming hot water);
- It is necessary to install the additional water probe downstream of the 3-way valve which is automatically recognized by the unit;
- The maximum value for the hot setting is 60 ° C;
- If this function is used, it will not be possible to activate any additional electric heaters;
- This setting will be stored in the event of a power failure.

6.8 Optional E-Heater

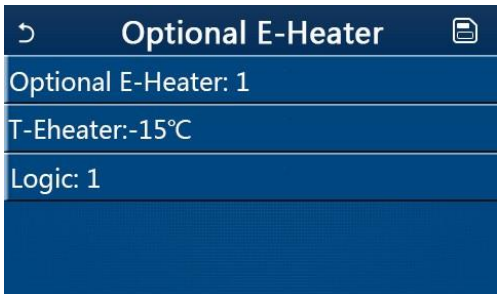


Fig. 12: Optional E-Heater page

Once you have entered the "Electric resistance" function, it will be possible to activate or deactivate any additional electrical resistance; this resistance can be a single or double stage resistance (in the case of a double stage it will be possible to decide whether to use one or both stages by specifying the number of resistances in the first parameter), set the external temperature threshold below which the resistance will be activated instead of the heat pump.

There are two working logics for "**Optional E-heater**":

- **Logic 1**: the heat pump and the optional electric heater cannot be started at the same time;
- **Logic 2:** the heat pump and the optional electric heater can be started at the same time when the ambient temperature is lower than T-Eheater

WARNING: "Logic 1" IS RECOMMENDED TO SAVE ENRGY.
Save the entered data by clicking on the button at the top right as shown in fig. 12.

Notes:

- It is necessary to install the additional water probe downstream of the electrical resistance;
- If you use this function, it will not be possible to activate any auxiliary heat source (Other termal);
- The electrical resistance must be installed downstream of the 3-way valve (system terminal side);
- The requests from the domestic hot water side will be satisfied using the electrical resistance of the DHW tank;
- This setting will be stored in the event of a power failure.

6.9 Remote sensor

At the commissioning parameter setting page, by touching "Remote sensor", the control panel will access to the corresponding setting page, where it can be set to "With" or "Without".

When the system should be managed with the Remote sensor, the controller can be used as a thermostat, limiting the management of temperatures in the area limited to the room sensor.

Notes:

- This setting will be memorized upon power failure.
- Only when "Remote sensor" is set to "With", the "Ctrl. State" can be set to "T-room".

6.10 Air removal

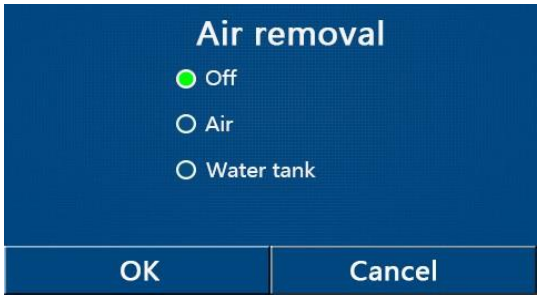


Fig. 13: Air removal page

Once you have entered the "Air removal" function, it will be possible to activate (in the selected circuit) the forced circulation of the water, allowing you to eliminate any air in the circuit.

Once the desired logic has been selected, press the "OK" button to confirm. It will be possible to select the circuit to vent. Once this operation is completed, it will be necessary to stop the pump by selecting Off.

If there is too much air in the system, the system will give flow error.

Notes:

- This setting will be memorized upon power failure.
- This setting can be done only when the unit is turned off. And when it is set to "On", the unit is not allowed to be turned on.

6.11 Floor debug

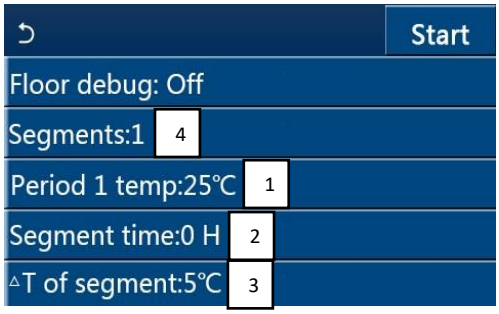


Fig. 14: Schermata “Debug pav radiante”

Once you have entered the "Floor Debug" function, it will be possible to activate or deactivate any procedure for heating the screed with radiant panels; this procedure makes it possible to create a stabilized heating cycle during which the set temperature **1** will be kept stable for a certain time **2** (duration of the interval), to then increase the temperature by a value equal to the ΔT set **3** and maintain it for the next interval; this temperature increase and hold procedure will be repeated for the specified number of intervals **4**.

At the end click on the button at the top right that will allow you to start (or possibly interrupt) the pre-heating cycle.

Notes:

- Using this function is suggested to heat up gradually the radiant floor upon the first heating of the season.
- This function can be activated only when the unit is turned off. When it is done with the unit keeping “On”, a window will pop up, saying “Please turn off the system first!”.
- When this function has been activated, “On/Off” operation will be deactivated. By pressing On/Off, a window will pop up, saying “Please disable the floor debug!”.
- When “Floor debug” has been activated; “Weekly timer”, “Clock Timer”, “Temp timer” and “Preset mode” will be deactivated.
- “Emergen. mode”, “Disinfection”, “Holiday mode”, “Manual defrost”, “Forced mode” and “Refri. recovery” cannot be activated at the same time with “Floor debug”. If doing so, a window will pop up, saying “Please disable the floor debug!”.
- Upon power failure, “Floor debug” will back to “Off” and the runtime will be zeroed.
- When “Floor debug” has been activated, “T-floor debug” and “Debug time” can be viewed.
- When “Floor debug” has been activated and works normally; the corresponding icon will be displayed at the upper side of the menu page.
- Before activating “Floor debug”, make sure “Segment time” of each segment is not zero. If so, a window will pop up, saying “Segment time wrong!” In this case, “Floor debug” is allowed to be activated only when “Segment time” has changed.

6.12 Manual defrost

Once you have entered the "Manual defrost" function, it will be possible to activate or deactivate the command for the forced execution of a defrost cycle.

Once the desired choice has been selected, press the “OK” button to confirm.

Notes:

- This setting will not be memorized upon power failure.
- This setting can be set only when the unit has turned off. When this function has been activated, ON operation is un-allowed.
- Defrosting will quit when the defrosting temperature goes to 20 ℃ or the defrosting duration is equal to 10 minutes.

6.13 Force mode

Once you have entered the "Forced Mode" function, it will be possible to activate or deactivate the command for the execution of the specific function in cooling or heating. The unit will perform a start up until the set point in the user parameterization is reached.

Once the desired choice has been selected, press the “OK” button to confirm.

Notes:

- This function is allowed only when the unit has just repowered and not turned on. For the unit which once has been put into operation, this function is unavailable, alerting “Wrong operation!”.
- It will not be memorized upon power failure.

6.14 Gate-Ctrl

Once you have entered the “External Contact” function, it will be possible to activate or deactivate the management of the on or off command via the external contact.

The contact must be installed according to instructions.

Once the desired choice has been selected, press the “OK” button to confirm.

Notes:

- This function must be activated only if an auxiliary device has been provided, otherwise the unit will be blocked;
- When this function is active, the unit will have the consent to operate only when the dedicated terminal circuit is CLOSED, a message will appear on the display if an operation is attempted while the circuit is OPEN;
- This setting will be stored in the event of a power failure.

6.15 C/P limit (Current limit/ Power limit)

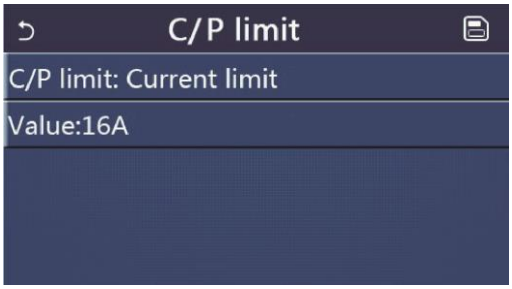


Fig. 15: C/P Limit page

Once you have entered the "C / P Limit" function, you can select the "Off", "Power Limit" or "Current Limit" setting.

By selecting “Power Limit” **or** “Current Limit”, it will be possible to set the limit value for the power or for the current. Only one can be set.

To save this setting, click on the "Save" icon at the top right.

WARNING: this function provides two settings, one to limit the electrical input current in kW and one in Ampere to limit the compressor frequency.

Change this setting only after consulting the manufacturer.

6.16 Address

Once you have entered the "Address" function, it will be possible to set the address assigned to the unit for possible control via Modbus. To set the desired value, use the “+” or “-“ keys, entering a value within the allowed range.

Once the value has been set, press the “OK” button to confirm it and return to the higher level.

Notes:

- It is used to set the address of the control panel for being integrated to the centralized control system.
- This setting will be memorized upon power failure.
- The setting range is 1~125 and 127~253.
- The defaulted address is 1 upon first power-on.

6.17 Refri. recovery (Refrigerant recovery)

Once you have entered the "Refrigerant Recovery" function, it will be possible to activate or deactivate any function for the recovery and storage of the refrigerant inside the unit. By touching ON/OFF, the refrigerant recovery will quit

This function is valid only for split and all in one units.

Notes:

- This function is allowed only when the unit has just repowered and not turned on. For the unit which once has been put into operation, this function is unavailable, alerting “Wrong operation”.
- This function will not be memorized upon power failure.

6.18 Tank heater

At the commissioning parameter setting page, by touching “Tank heater”, it will access to the setting page of control logic for the water tank heater.
Available logicsare:

- **Logic 1**: NEVER allowed the Unit’s Compressor and the Water Tank Electric Heater or the Optional Electric Heater to work at the same time;
- **Logic 2**While Heating/ Cooling + Hot water mode (Hot Water priority) Tset ≥ THPmax + ΔThot water +2, when water tank temperature reach THPmax, the water tank EH will be ON and start to do hot water, at the same time, the compressor wil turn to heating/cooling mode, water tank EH and Compressor will be ON together.

WARNING: “Logic 1” IS RECOMMENDED TO SAVE ENRGY.

Notes:

- “Reserved” will be displayed when the water tank is unavailable.
- This setting can be done only when the unit is off.
- This function can be memorized upon power failure;
- Default value is Logic 1.

6.19 Gate-Ctrl memory

At the commissioning parameter setting page, by touching "Gate-Ctrl Memory”, it will access to the setting page. When it is enabled, "Gate-Ctr" will be memorized upon power failure

6.20 3-Way valve

At the commissioning parameter setting page, by touching "3-Way valve1", it will access to the setting page. Three options are available, "**Without**", "**DHW**", and "**AIR**".

Notes:

- By choosing "DHW" the contact will be closed when directed to the DHW.
- By choosing "AIR" the contact will be closed when directed towards the system.
- This setting can only be made if the unit is off;
- This function can be stored in the event of a power failure.

6.21 Hot water control mode (CURRENTLY NOT AVAILABLE)

At the commissioning parameter setting page, by touching “Hot water control mode”, it can be set to “Auto” or “Manual”.

Notes:

- Choosing “Manual” the parameter to fix the frequency of the compressor can be set.
- This function can be stored in the event of a power failure.

7 COMMISSIONING - STEP 2 - PARAMETERS

PARAM.

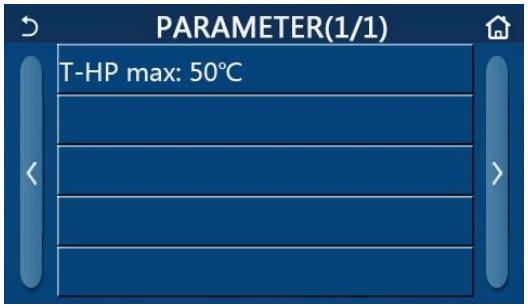


Fig. 16: Param. page

At the commissioning parameter setting page, by touching “PARAM.”, it will access to the pages as shown in fIg.16.

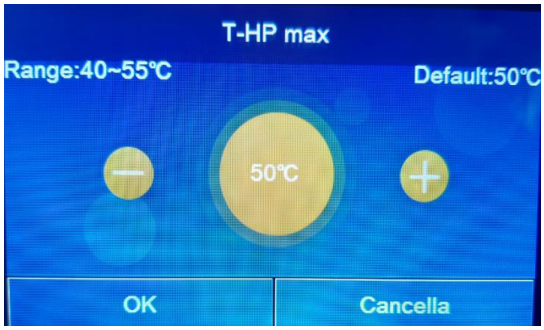


Fig. 17: “T-HP max” page

In the "T HP max" function (Fig. 17) it will be possible to indicate up to what temperature the water contained in the storage will be heated only by the heat pump. To set the desired value, use the “+” or “-“ keys, entering a value within the allowed range.

ATTENTION: Higher temperatures that can be set by the user can only be met if the system includes an electrical resistance in the DHW tank.

Nota:

- All the parameters of this page will be stored in the event of a power failure.

8 USER FUNCTIONS MENU

8.1 Browsing the functions menu

Fig. 18: Functions page

At the menu page, by touching “FUNCTIONS”, the control panel will go to the setting page, as shown in figure 18.

To browse in the menu:

1. Go to previous page;
2. Go to next page;
3. Back to upper menu;
4. Back to Home page.

To access a function click on the relevant text.

Notes:

- At the function setting page of some function option, by touching “OK”, this setting will be saved; by touching the “CANCEL” key, this setting will be canceled.
- At the function setting page with setting of any function changed, if the function is set to be memorized upon power failure, this setting will be saved automatically and memorized upon next power-on.
- When there is submenu for the selected function option, by pressing it the control will go directly the setting page of the submenu.
- “NA” will be displayed for unavailable functions of the heating only units and mini chillers. When setting these functions, the controller will tell setting of this parameter is unallowed..

No.	Item	Range	Default	Remarks
1	Mode	Cool Heat Hot water Cool + Hot water Heat + Hot water	Heat	When the water tank is unavailable, then only “**Cool**” and “**Heat**” are available.
2	Fast hot water	On/Off	Off	When the water tank is unavailable, it will be reserved.
3	Cool + hot water	Cool/Hot water	Hot water	When the water tank is available, it will be defaulted to be “**Hot water**”; when unavailable, it will be reserved.
4	Heat + hot water	Heat/Hot water	Hot water	When the water tank is available, it will be defaulted to be “**Hot water**”; when unavailable it will be reserved.
5	Quiet mode	On/Off	Off	/
6	Quiet timer	On/Off	Off	/
7	Weather depend	On/Off	Off	/
8	Weekly timer	On/Off	Off	/
9	Holiday release	On/Off	Off	
10	Disinfection	On/Off	Off	When the water tank is unavailable, it will be reserved The disinfection date ranges from Monday to Sunday. Saturday is defaulted. 23:00. The disinfection time ranges from 00:00~23:00. 23:00 is defaulted.
11	Clock timer	On/Off	Off	/
12	Temp. timer	On/Off	Off	/
13	Emergen. mode	On/Off	Off	/
14	Holiday mode	On/Off	Off	/
15	Preset mode	On/Off	Off	/
16	Error reset	/	/	Some error can be cleared only when it has been reset manually.
17	WiFi reset	/	/	It is used to reset the WiFi.
18	Reset	/	/	It is used to reset all user parameter setting.
19	Child Lock	On/Off	Off	/

8.2 Mode

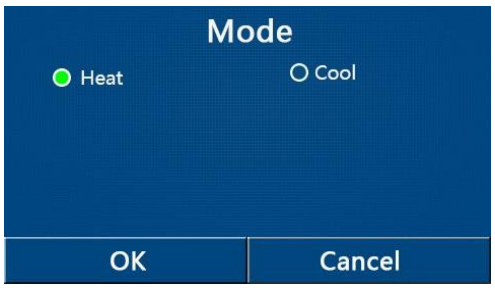


Fig. 19: Mode page

At the function setting page with the unit turned off, by touching “Mode”, it will go to the mode setting page, where desired mode can be selected. Then by touching “OK” this setting will be saved and the display panel will back to the function setting page.

Notes:

- The default mode is “Heat” upon first power-on.
- Mode setting is allowed only when the unit is turned off, otherwise a dialog box will pop up, saying “Please turn off the system first!”
- When the water tank is unavailable, only “Heat” and “Cool” mode are allowed.
- When the water tank is available, “Cool”, “Heat”, “Hot water”, “Cool+ Hot water”, and “Heat+ Hot water” are allowed.
- For the heat pump, the “Cool” mode is allowed; for the heating only unit, “Cool+ Hot water” and “Cool” are unallowable.
- This setting can be memorized upon power failure.

8.3 Fast hot water

At the function setting page with the unit turned off, by touching “Fast hot water”, the display panel will go to the corresponding setting page, where desired option can be selected. Then by pressing “OK” this setting will be saved and the display panel will back to the function setting page.

Notes:

- This function can be activated by clicking directly on the word "On" and then confirming with the "OK" button, only if there is an accumulation;
- If there is no accumulation, this function will not be available;
- For greater energy saving it is recommended to disable this function;
- The setting will be stored in the event of a power failure;
- The default value for this parameter is: “Off”.

8.4 Cool + hot water

Once you have entered the "Cool + DHW" function, you can select the desired option. Once the priority has been selected, press the “OK” button to confirm.
Selecting the "Cooling" option requires the unit to satisfy the terminal side of the system first; otherwise, by selecting the "DHW" option, priority will be given to the production of domestic hot water, only if a storage tank is installed.

Notes:

- If there is no water tank, this function will not be available;
- The setting will be stored in the event of a power failure;
- The default value for this parameter is: “DHW”.

8.5 Heat + hot water

Once you have entered the "Heating + DHW" function, you can select the desired option. Once the priority has been selected, press the “OK” button to confirm.

Selecting the "Heating" option requires the unit to satisfy the terminal side of the system first; otherwise, by selecting the "DHW" option, priority will be given to the production of domestic hot water, only if a storage tank is installed.

Notes:

- When the water tank is unavailable, it will be reserved; when it is unavailable, the default priority will be given to “Hot water”.
- It will be memorized upon power failure;
- The default value for this parameter is: “DHW”.

8.6 Quiet mode

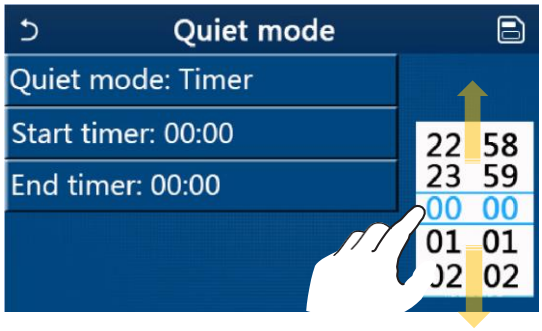


Fig. 20: Quiet mode page

Once you have entered the "Silent mode" function, a selection box opens in which the "Silent mode" option can be set to "On", "Off" or "Timer".
If you choose the "Timer" function, you are asked to set the " Start Timer" and " End Timer" parameters in which to activate the "Silent mode" function; to set the values it will be necessary to press on the label of the time to be set and set the hour and minute value by sliding the value up or down with the finger (the value to be set will be the one highlighted in blue, at center of the selection window), as shown in fig. 20.
The setting can be saved by clicking the icon in the upper right corner.

Notes:

- The setting can be performed in both "On" and "Off" states, but is applied only if the main unit is turned on;
- If the setting is "On", the function automatically returns to "Off" when the main unit is turned off; if, on the other hand, the setting chosen is "Timer", the function remains active even with the main unit off and can only be canceled manually;
- The setting will be stored in the event of a power failure;
- The default value for this parameter is: “Off”.

8.7 Weather depend

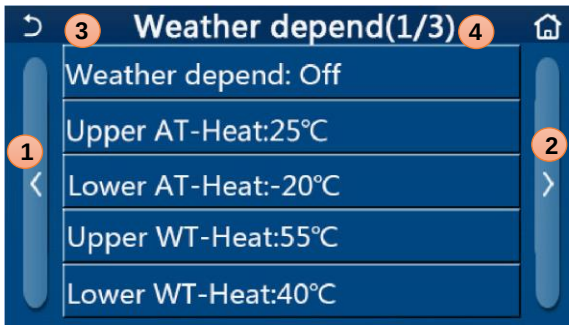
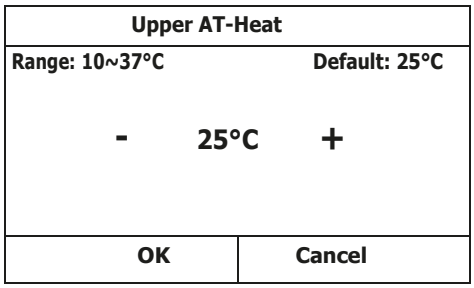


Fig. 21: Weather depend page

To browse in the menu:

1. Go to previous page;
2. Go to next page;
3. Back to upper menu;
4. Back to Home page.

Once entered by clicking on the "Weather depend" function (first item on the first page), a selection box opens which allows you to choose between "On" or "Off". Once the "On" option has been selected, press the "OK" button to confirm.
Then we will move on to set the temperature according to the climate. The parameters that make up the Weather depends represent the curves that the system will use to automatically vary the set point on the delivery temperature, or the room air temperature (if an air-based control is set, using the appropriate accessory air probe) both hot and cold.



To set the values for each parameter, it is necessary to click on the label of the chosen parameter, and set the desired value using the "+" or "-" keys, entering a value within the allowed range; once the value has been set, press the “OK” button to confirm it and return to the higher level.

Notes:

- After activating the " Weather depend " mode, it cannot be deactivated with the On / Off commands but it is necessary to manually set " Weather depend: Off";
- It is possible to view the value at which the climatic device points, in the “Visual” menu;
- The Weather depend can be applied to both the delivery temperature (water adjustment) and the ambient air (only if the specific air probe supplied is installed); however it is recommended to use the flow temperature control;
- The Weather depends can only be applied to heating and cooling, not to the production of domestic hot water (DHW);
- The function can be set even if the unit is OFF, however it will only take effect if the unit is turned on;
- The setting will be stored in the event of a power failure;
- The default value for this function is “Off”.

8.8 Weekly timer

Fig. 22: Weekly timer page

Once you have entered the "Weekly timer" function, it will be possible to set up to three time bands during which the unit will operate for each day of the week, using the current mode and set; or it will be possible to assign the "Holiday" value to one or more days which (if the specific "Holiday release" function is enabled) will automatically set a working set of 30 °C if using a control on the supply water, 10 °C if the ambient air control is used (with the specific air probe accessory).

By clicking on the label relating to one of the days of the week, you access the page relating to that day, in which it will be possible to assign a value to the day itself, including:

- "Active": if the weekly timer is active, the system will perform the programmed access as specified in the data of periods 1, 2 and 3;
- “Not active”: even if the weekly timer is active, this day will not be considered;

- "Holiday": if the "Holiday release" is active, during this day the set will be kept at 30 °C (for water control) or 10 °C (for air control).

By clicking on the label relating to one of the periods of the selected day, you access the page relating to the settings of the period itself; period settings can be:

- “Active ": the period describes a time slot in which you want the unit to be used; in this case the labels relating to the start and end times of the period itself will also be displayed (which will be set first by clicking on the label of the time you want to set, then sliding your finger on the hourly values until you select those desired; at the end, pressing the key at the top right will allow you to save the data entered);
- “Not active”: the period will not be used.

Notes:

- Each press on the label will change the value, however once the desired value has been selected, to make the setting effective, it is necessary to save it by pressing the icon indicated at the top right;
- To make the time settings specified in the various days of the week effective, the Weekly Timer must be set to "On" (by clicking on the label of the Weekly Timer itself);
- The "Active" setting for one or more days of the week makes the specified time settings valid only if the Weekly timer is "On";
- Each day allows the setting of up to three time slots (periods) whose start and end times must be consistent with each other (the beginning of a period must be subsequent to the end of the previous period);
- If one or more days have been set as “Holiday”, the function "Holiday release" must be activated (see paragraph 8.9);
- The setting will be stored in the event of a power failure;
- The default value for this function is “Off”.

8.9 Holiday release

Once you have entered the “Holiday release” function, it will be possible to activate or deactivate this program if applied as a daily setting on one or more days of the Weekly timer; once the setting has been selected, press the "OK" button to confirm.

Notes:

- If one or more days in the Weekly timer are set to “Holiday”, this function must be “On” if the program specified in the timer is to be respected;
- The setting will be stored in the event of a power failure;
- The default value for this function is “Off”.

8.10 Disinfection

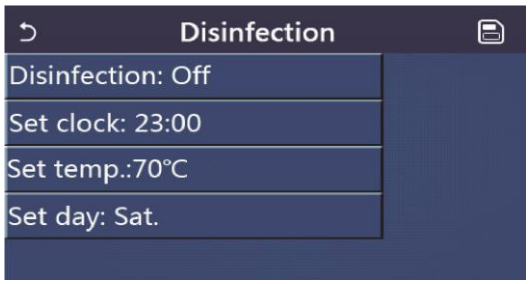


Fig. 23: Disinfection page

Once you have entered the “Disinfection” function, it will be possible to activate or deactivate this function, as well as to choose the time and day to run it and the temperature to use.

ATTENTION: if the unit is used for the production of domestic hot water, the Disinfection MUST necessarily be provided.

By clicking on the label relating to the value of the set for the Disinfection, the numerical screen will appear on the right side which allows you to change the set, within the permitted ranges; remember that to make the cycle effective it will be kept for a certain duration, which will increase as the value set for the set decreases.

Each press on the label will change the value, however once the desired value has been selected, to make the setting effective, it is necessary to save it by pressing the icon at the top right.

Notes:

- This function can only be activated if there is an accumulation. If there is no accumulation, this function will not be available;
- This function can be set even if the unit is Off;
- This function cannot be activated at the same time as the functions: “Emergen.mode”, “Holiday mode”, “Floor debug”, “Manual defrost”, or “Refri. recovery”;
- If the anti-legionella cycle is not completed, the unit will give a message on the screen with the anomaly, this message can be reset by pressing "OK";
- During the Disinfection, a communication error or an error related to the storage accessory will stop the cycle automatically;
- The setting will be stored in the event of a power failure.
- The default value for this function is “Off”.

8.11 Clock timer

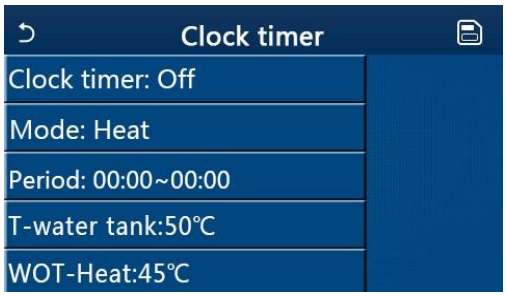
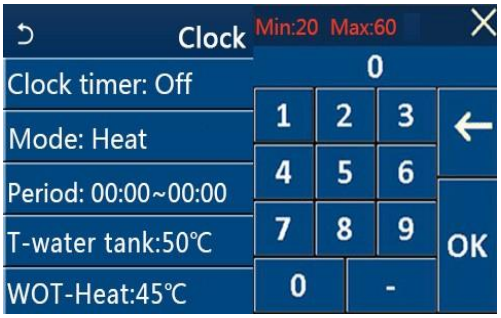


Fig. 24: Clock timer page

In the function selection screen, selecting "Clock Timer" gives access to the corresponding options:

- “Clock Timer”: activate or deactivate the timer;
- “Mode”: allows you to program the desired mode;
- “Period”: allows you to define the time settings;
- "T-water tank": sets (if the mode provides for it) the set for the DHW tank;
- "WOT-Heat": sets the value (if provided) of the water production set on the terminal side of the system.



By clicking on the "Period" label, the page with the labels relating to the start and end times of the Timer will open; which will be set first by clicking on the label of the time you want to set, then sliding your finger over the time values until you select the desired ones; at the end, pressing the key at the top right will allow you to save the data entered.

By clicking on the labels relating to parameters with numerical values, a numerical screen will appear on the right (with indication of the range of allowed values) through which it is possible to enter the desired values.

At the end, by clicking on the "Save" icon at the top right, it will be possible to save all the settings.

Notes:

- When “Clock timer” has been set and “Hot water” mode is involved, in this case, if “Water tank” is changed to “Without”, “Hot water” will be automatically switched to “Heat”, and “Cool/Heat + Hot water” will be switched to “Cool/Heat”.
- When “Weekly timer” and “Clock timer” have been set at the same time, the priority will be given to the former.
- When the water tank is available, “Heat”, “Cool”, “Hot”, “Heat + Hot water”, and “Cool + Hot water” are allowed; however, when the water tank is unavailable, only “Heat” and “Cool” are allowed.
- When the end time is earlier than the start time, this setting is invalid.
- Water tank temperature can be set only when “Hot water” is involved in the operation mode.
- The setting of “Clock timer” only works once. If this setting is needed again, it should be set again.
- It will be deactivated when the unit is turned on manually.
- When “Weather depend” has been activated and the mode for “Clock timer” is set to “Hot water”, “Weather depend” will be deactivated when the setting mode has been switched;
- This function will be stored in the event of a power failure;
- The default value for this function is “Off”.

8.12 Temp. timer

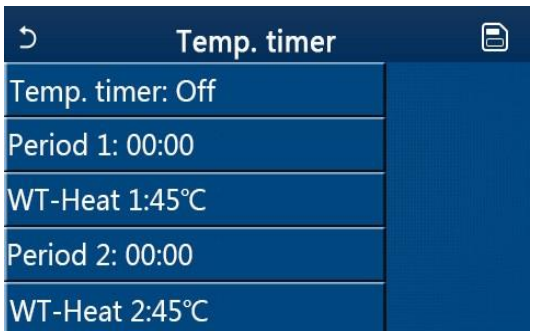


Fig. 25: Temp. Timer page

By selecting the “Temp. Timer” function, it will be possible to set the programmed variations on the water delivery set (this set will depend on the operating mode currently active). The function can be activated or deactivated by clicking the " Temp. Timer " label; by clicking on the label "Period 1" it will be possible to specify the time at which to change the set on the water delivery, setting it to the value specified in the parameter "T Heating flow 1" (which, if clicked, will bring up a numerical screen to change the value); in a similar way, it is possible to set the “Period 2” with the relative “Heating Delivery T 2”.

By clicking on the labels relating to the flow temperature parameters, a numerical screen will appear on the right side (with indication of the range of allowed values) through which it is possible to enter the desired values.

To make the setting effective, it is necessary to save it by pressing the icon at the top right as shown in fig. 25.

Notes:

- When “Weekly timer”, “Preset mode”,“Clock timer” “Temp. timer” have been set at the same time, then the latter takes the priority.
- This setting is valid only when the unit is turned on.
- Under the “Cool” or “Cool+Hot water” mode, the setting targets at “WT-Cool”; while under the “Heat” or “Heat+Hot water” mode, the setting targets at “WT-Heat”.
- When start time of period 2 is the same as that of period 1, then the former takes prevalence.
- “Temp.timer” is judged based on timer.
- During this setting, when temperature is set manually, then this setting will take prevalence.
- Under the “Hot water” mode, this function will be reserved.
- This function will be memorized upon power failure;
- The default value for this function is “Off”.

8.13 Emergency mode

In the event that the system is present (and correctly set) the accumulation and / or an additional heat source (paragraph 6.6) or electrical resistance (paragraph 6.7), it will be possible to activate the "Emergency mode" function, which once activated, it will exclude the heat pump to produce hot water (sanitary or system), using only the electrical resistance of the storage tank and / or the additional heat source (or electrical resistance) to meet the requests. Once you have entered the "Emergency mode" function, it will be possible to activate or deactivate this program; subsequently it will be necessary to press the “Ok” key to confirm.

Notes:

- The emergency mode is allowed on conditions that there is some error or protection and the compressor has stopped at least for three minutes. If the error or protection has not been recovered, the unit can access to the emergency mode through the wired controller (when the unit is off).
- Under the emergency mode, “Hot water” or “Heat” cannot be performed at the same time.
- When the running mode is set to “Heat”, if “Other thermal” or “Optional E-Heater” is set to “Without”, the unit will fail to access to the “Emergen. mode”.
- When the unit performs “Heat” under “Emergen. mode” and the controller detects “HP-Water Switch”, “Auxi. heater 1”, “Auxi. heater 1”, and “Temp-AHLW”, this mode will quit at once. In the same way, when errors mentioned above occur, “Emergen. mode” cannot be activated.
- When the unit performs “Hot water” under “Emergen. mode” and the controller detects “Auxi.-WTH”, this mode will quit at once. In the same way, when errors mentioned above occur, “Emergen. mode” cannot be activated.
- When this function has been activated, “Weekly timer”, “Preset mode”, “Clock timer”,and “Temp timer” will be deactivated. Beside “On/Off”, “Mode”, “Quiet mode”, “Weekly timer”, “Preset mode”, “Clock timer”,and “Temp timer” operation are unavailable.
- Under “Emergen. mode”, the thermostat does not work.
- This function can be activated only when the unit is turned off. If dosing so with the unit keeping “On”, a window will pop up, saying “Please turn off the system first!”.
- “Floor debug”, “Disinfection”, and “Holiday mode” cannot be activated at the same with this function. When doing so, a window will pop up, saying “Please disable the emergen. mode!”.
- Upon power failure, “Emergen. mode” will back to “Off”;
- The default value for this function is “Off”.

8.14 Holiday mode

In the weekly timer it is possible to assign the "Holiday" program to one or more days of the week (on this day the unit will operate hot, maintaining a set on the supply water of 30 °C, or 10 °C if the control is based on ambient air), this function must be activated to activate the execution of the “Holiday Program”, which may be set on the “Weekly timer”.

Once you have entered the "Holiday mode" function, it will be possible to choose one of the available modes by clicking directly on the writing that identifies it and then with the "OK" button.

Note:

- This function can be activated only when the unit has been turned off, otherwise a prompt dialog box will pop up, saying “Please turn off the system frist!”.
- When “Holiday mode” has been activated, the operation mode will automatically switch to “Heat”. Mode setting and “On/Off" operation through the controller will be unavailable.
- When “Holiday mode” has been activated, the controller will automatically deactivate the “Weekly timer” and “Preset mode”and “Clock timer” and “Temp.timer”.
- Under the “Holiday mode”, when the unit is under the control of room temperature, the set point (room temperature for heating) should be set to 10°C; when it is under the control of leaving water temperature, the set point (leaving water temperature for heating) should be 30°C.

- When this function has been activated, “Floor debug”, “Emergen.mode”, “Disinfection”, “Manual defrost”, “Preset mode”, “Weekly timer”, “Clock timer”, and “Temp.timer” cannot be activated at the same time, meanwhile a window will pop up, saying “Please disable the holiday mode!”.
- This function will be memorized upon power failure;
- The default value for this function is “Off”.

8.15 Preset mode

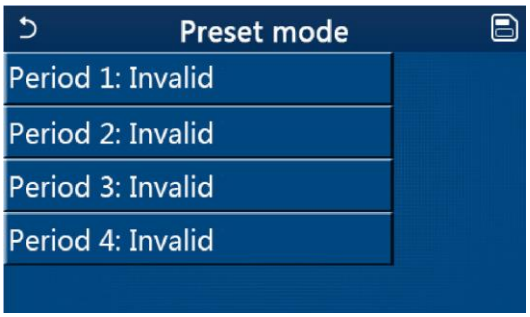


Fig. 26: Preset mode page

Through this function it will be possible to set from one to four daily periods, whose commands will then be carried out every day. Once you have entered the "Preset mode" function it will be possible, by pressing the key relating to each period, to activate or deactivate the single period, to choose the operating mode to be performed, the temperature set for the water produced and the start times and end of the same period.

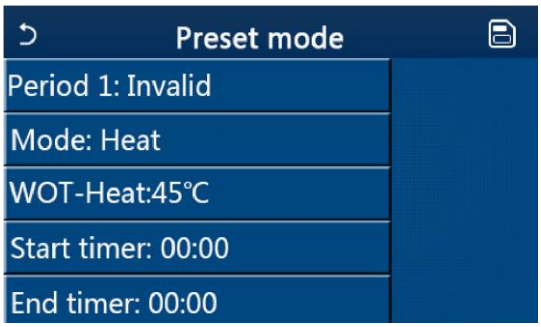


Fig. 27: Preset mode page 2

By clicking on the "Period" label, the page (Fig. 27) will open with the labels relating to the activation of the period itself, the mode to be used during the period, the water delivery temperature, the start and end times ; by clicking on each of these it will be possible to set the appropriate value (each type of data will eventually show additional windows through which to choose or enter the desired values); at the end, pressing the key at the top right will allow you to save the data entered.

Notes:

- If there is no accumulation, the "DHW" mode will not be available;
- In the event that time schedules have been entered with the weekly timer and other time settings at the same time with the preset mode, the latter will have priority;
- Each day allows the setting of up to four periods whose start and end times must be consistent with each other (the beginning of a period must be subsequent to the end of the previous period);
- The preset mode remains valid only for the preset day;
- This function will be stored in the event of a power failure;
- The default value for this function is “Off”.

8.16 Reset Error

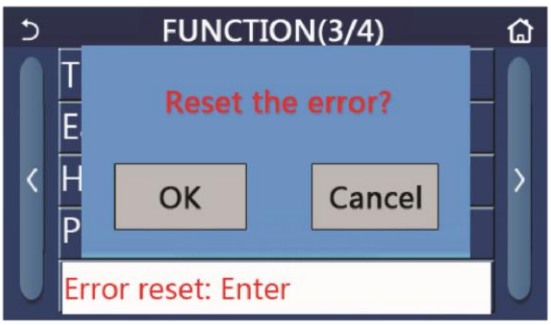


Fig. 28: Error Reset page

This function allows you to reset the errors currently active on the system. This operation must be performed only after having resolved the signaled alarm condition; to reset the alarms it will be necessary to press on the function label, and then confirm the operation by pressing the "OK" button in the dialog box.

Notes:

- This operation can only be performed if the unit is off;

8.17 WiFi

This function allows you to reset the Wi-Fi connection, eliminating any conflicts.

8.18 Reset

In the function selection screen, by clicking "Reset" a selection box appears in which you can choose "OK" to restore all parameter settings, or choose "Cancel" to return to the function selection screen.

Notes:

- This function can only be performed if the unit is off;
- This function acts on the functions: "Temp. timer", "Timer", "Preset mode", "Weekly timer" and "Weather depend".

8.19 Child lock

In the function selection screen, clicking “Key lock” displays a selection box where you can choose “On” to activate the key lock. The home screen will then appear with the icon , as shown below:

In this condition, the touch functions of the display are disabled. Pressing for 10 seconds the key lock is deactivated and it is possible to act on the display. After 30 seconds without any activity, the key lock will reactivate automatically.

Only by setting the function to 'Off' can the function be completely disabled.

9 USER PARAMETER SETTING

9.1 Browsing the menu

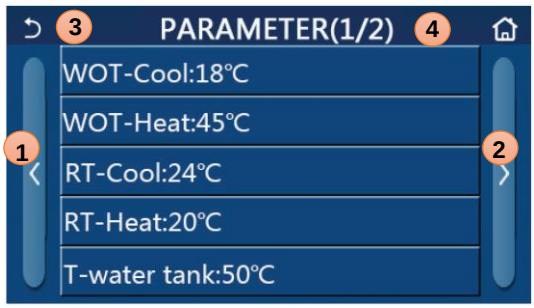


Fig. 29: Parameter page

In the menu screen, by clicking the "Parameters" button you access the parameter setting screen, shown in fig. 50.
Through this menu it will be possible to set the values used for the regulation of the machine.

To browse in the menu:

1. Go to previous page;
2. Go to next page;
3. Back to upper menu;
4. Back to Home page.

To access a function it will be necessary to click on its text.

After setting, by clicking "OK" the selected values will be saved and the unit will begin to operate accordingly. The setting can be canceled by clicking the "Cancel" button.

Note: while browsing the menu pages, the current page of the selected menu will be displayed in the header (i.e. in the upper darker area).

9.2 Set the temperature sets used by the unit in the various modes

Through the windows of this menu it will be possible to set the values to be used as a working set for the various modes; the way in which the values will be changed and saved are the same for each of them: it is necessary to click on the label of the chosen parameter and set the desired value using the "+" or "-" keys, entering a value within the allowed range; once the value has been set, press the “OK” button to confirm it and return to the higher level.

Notes:

- The windows display the possible range for the selected parameter at the top left, while the value entered during the last modification is shown on the right side;
- All parameters will be stored in the event of a power failure.

Below is the table summarizing all the available parameters, with functions and operating ranges:

No.	Full Name	Displayed Name	Range (°C)	Range (°F)	Default
1	Leaving water temperature for cooling (T1)	WOT-Cool	5~25°C	41~77°F	18°C/64°F
2	Leaving water temperature for heating (T2)	WOT-Heat	20~65°C	68~149°F	45°C/113°F
3	Room temperature for cooling (T3)	RT-Cool	18~30°C	64~86°F	24°C/75°F
4	Room temperature for heating (T4)	RT-Heat	18~30°C	64~86°F	20°C/68°F
5	Water tank temperature(T5)	T-water tank	40~80°C	104~176°F	50°C/122°F
6	Leaving water temperature difference for cooling (Δt1)	ΔT-Cool	2~10°C	36~50°F	5°C/41°F
7	Leaving water temperature difference for cooling (Δt2)	ΔT-Heat	2~10°C	36~50°F	10°C/50°F
8	Leaving water temperature difference for water heating (Δt3)	ΔT-hot water	2~25°C	36~77°F	5°C/41°F
9	Room temperature control difference (Δt4)	ΔT-Room temp	1~5°C	34~41°F	2°C/36°F

10 VIEWING

10.1 Browsing the menu

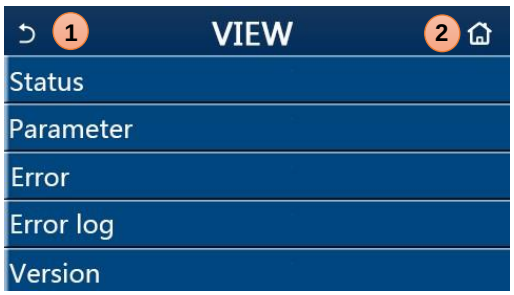


Fig. 30: Viewing page

Through this menu it will be possible to view a lot of information relating to the operation of the machine; each label groups a set of information from which the user can check the status of the unit and any errors or anomalies in progress. To navigate in this menu, the system provides the following keys:

1. Back to upper level menu;
2. Back to home page

10.2 Status

In these pages it is possible to view the status of the various system components. Once you have accessed the "Status" function, you can browse the various pages using the buttons on the right and left sides of the window itself; the following table shows the information available and the possible statuses.

Note: all the information contained in this menu is for display only.

No.	Full Name	Displayed Name	Status
1	Status of the compressor	Compressor	On/Off
2	Status of the fan	Fan	On/Off
3	Status of the unit	Unit status	Cool/Heat/Hot water/Off
4	Status of the water pump	HP-pump	On/Off
5	Status of the water tank heater	Tank heater	On/Off
6	Status of the 3-way valve 1	3-way valve 1	NA
7	Status of the 3-way valve 2	3-way valve 2	On/Off
8	Status of the compressor crankcase heater	Crankc. heater	On/Off
9	Status of the heater 1 for the main unit	HP-heater 1	On/Off
10	Status of the heater 2 for the main unit	HP-heater 2	On/Off
11	Status of the Chassis heater	Chassis heater	On/Off
12	Status of the heat exchanger heater	Plate heater	On/Off
13	Status for the system defrosting	Defrost	On/Off
14	Status of the system oil return	Oil return	On/Off
15	Status of the thermostat	Thermostat	Off/Cool/Heat/Hot water/Cool+hot water/ Heat+hot water
16	Status of other thermal source	Other thermal	On/Off
17	Status of the 2-way valve	2-way valve	On/Off
18	Status of antifreeze	HP-Antifree	On/Off
19	Status of the door guard	Gate-Ctrl.	Card in/Card out

20	Status of the 4-way valve	4-way valve	On/Off
21	Status of disinfection	Disinfection	Off/Running/Done/Fail
22	Status of the flow switch	Flow switch	On/Off
23	Status of the tank pump	Tank pump	On/Off

10.3 Parameter

In these pages it is possible to view the current values of the operating parameters of the unit Once you have entered the "Parameters" function, you can browse the various pages using the buttons on the right and left sides of the window itself; the following table shows the available information.

Note: all the information contained in this menu is for display only.

No.	Full Name	Displayed Name	Remarks
1	Environmental temperature	T-outdoor	/
2	Suction temperature	T-suction	/
3	Discharge temperature	T-discharge	/
4	Defrosting temperature	T-defrost	/
5	Entering water temperature of the plate type heat exchanger	T-water in PE	/
6	Leaving water temperature of the plate type heat exchanger	T-water out PE	/
7	Leaving water temperature of the auxiliary heater	T-optional water Sen.	/
8	Water tank temperature	T-tank ctrl.	/
9	Floor debug target temperature	T-floor debug	/
10	Floor debug runtime	Debug time	/
11	Liquid line temperature	T-liquid pipe	/
12	Vapor line temperature	T-gas pipe	/
13	Economizer inlet temperature	T-economizer in	/
14	Economizer outlet temperature	T-economizer out	/
15	Remote room temperature	T-remote room	“NA” for mini chillers
16	Discharge pressure	Dis. pressure	/
17	Weather-dependent target temperature	T-weather depend	/

10.4 Error

In these pages you can view the current errors and alarms active on the unit. Once you have entered the "Error" function, it will be possible to browse any pages using the buttons on the right and left sides of the window itself.

Notes:

- The control panel can display real-time errors. And at these pages, all errors will be listed here.
- Each page displays at most 5 errors. Others can be viewed by touching the page turning keys.

Error List

No.	Full Name	Displayed Name
1	Ambient temperature sensor error	Ambient sensor
2	Defrosting temperature sensor error	Defrost sensor
3	Discharge temperature sensor error	Discharge sensor
4	Suction temperature sensor error	Suction sensor
5	Economizer inlet temperature sensor	Econ. in sens.
6	Economizer outlet temperature sensor	Econ. out sens.
7	Fan error	Outdoor fan
8	High pressure protection	High pressure
9	Low pressure protection	Low pressure
10	High discharge protection	Hi-discharge
11	Capacity DIP switch error	Capacity DIP
12	Communication error between the outdoor and indoor main boards	ODU-IDU Com.
13	Communication error between the outdoor main board and the drive board	Drive-main com.
14	Communication error between the display panel and indoor main board	IDU Com.
15	High pressure sensor error	HI-pre. sens.
16	Leaving water temperature sensor error for the plate type heat exchanger of the heat pump	Temp-HELW
17	Leaving water temperature sensor error for the auxiliary electric heat of the heat pump	Temp-AHLW
18	Entering water temperature sensor error of the plate type heat exchanger of the heat pump	Temp-HEEW
19	Water tank temperature sensor error ("NA" for mini chillers)	Tank sens.
20	Remote room temperature sensor error	T-Remote Air
21	Protection for the flow switch of the heat pump	HP-Water Switch
22	Welding protection to the auxiliary electric heater 1 of the heat pump	Auxi. heater 1
23	Welding protection to the auxiliary electric heater 2 of the heat pump	Auxi. heater 2
24	Welding protection to the water tank electric heater	Auxi. -WTH
25	DC bus under-voltage or voltage drop error	DC under-vol.

26	DC bus over-voltage	DC over-vol.
27	AC current protection (input side)	AC curr. pro.
28	IPM defective	IPM defective
29	PFC defective	PFC defective
30	Start failure	Start failure
31	Phase loss	Phase loss
32	Jumper cap error	Jumper cap error
33	Driver resetting	Driver reset
34	Compressor overcurrent	Com. over-cur.
35	Overspeed	Overspeed
36	Current sensing circuit error or current sensor error	Current sen.
37	Desynchronization	Desynchronize
38	Compressor stalling	Comp. stalling
39	Radiator or IPM or PFC over-temperature	Overtemp.-mod.
40	Radiator or IPM or PFC temperature sensor error	T-mod. sensor
41	Charging circuit error	Charge circuit
42	AC input voltage error	AC voltage
43	Ambient temperature sensor error at the drive board	Temp-driver
44	AC contactor protection or input over-zero error	AC contactor
45	Temperature drift protection	Temp. drift
46	Sensor connection protection (the current sensor fails to be connected with the corresponding phase U and or phase V)	Sensor con.
47	Communication error between the display panel and the outdoor unit	ODU Com.
48	Refrigerant vapor line temperature sensor error	Temp RGL
49	Refrigerant liquid line temperature sensor error	Temp RLL
50	4-way valve error	4-way valve

10.5 Error log

In these pages it is possible to view the logged errors. Once you have entered the "Error" function, it will be possible to browse any pages using the buttons on the right and left sides of the window itself.

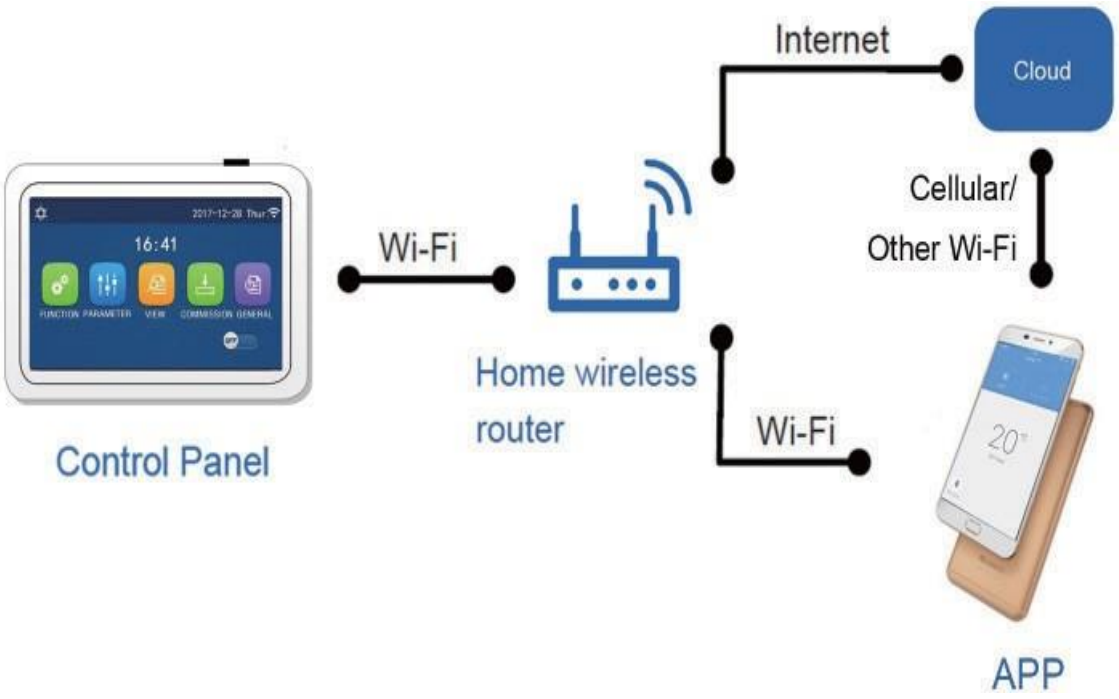
Notes:

- The error log can accommodate up to 20 pieces of error. Name and occurrence time are available for each error.
- When error log exceeds 20, the latest will supersede the earliest;
- Errors registered in the “Error List” cannot be cleared.

10.6 Version

On this page you can view the version of the software installed on the unit.

11 Intelligent Control



Note:

- Make sure the smart phone or tablet computer adopts standard Android or Ios operation system. For detailed version, please refer to the APP.
- The Wi-Fi function doesn't support Chinese Wi-Fi network name.
- The devices can be connected and controlled only in Wi-Fi and 4G hotspot modes.
- Software operation interface is universal and its control functions may not be completely corresponding to the unit. Software operation interface may vary along with APP upgrading or different operation system. Please refer to the actual program.

11.1 Enabling Wifi

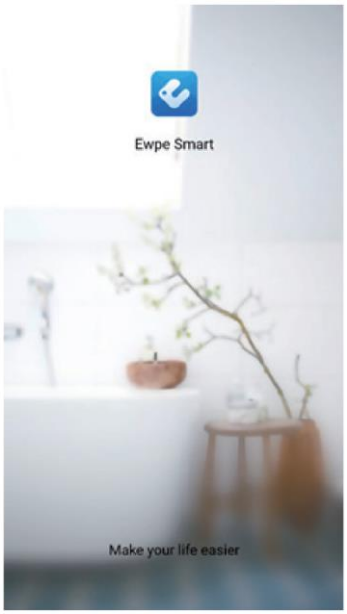
Wifi should be preliminarly enabled from the General menu (on the General menu second page).

1. Make sure that the device (smartphone or tablet) used is equipped with a standard version of Android (version 4.4 or higher) and iOS (iOS7.0 or higher) as the operating system. For more details, refer to the App.
2. The units can only be connected and controlled via WiFi network or via Hotspot function.
3. The application interface is universal for all products and many functions may not match for all units. It may vary depending on the operating system used or the update in use. Please refer to the current version.
4. If access protection is active on your Router in the "MAC Filter" / "MAC address filter" item, enable the device's MAC address access to the network.

11.2 Install Ewpe Smart APP

[Operation Instructions]

1. Scan the following QR code with your smart phone to download and install Ewpe Smart APP directly.

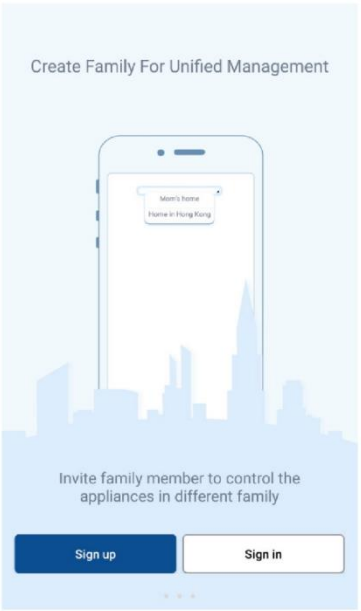


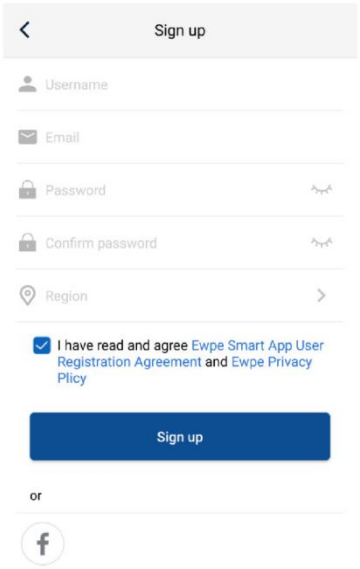
App

Nota bene:

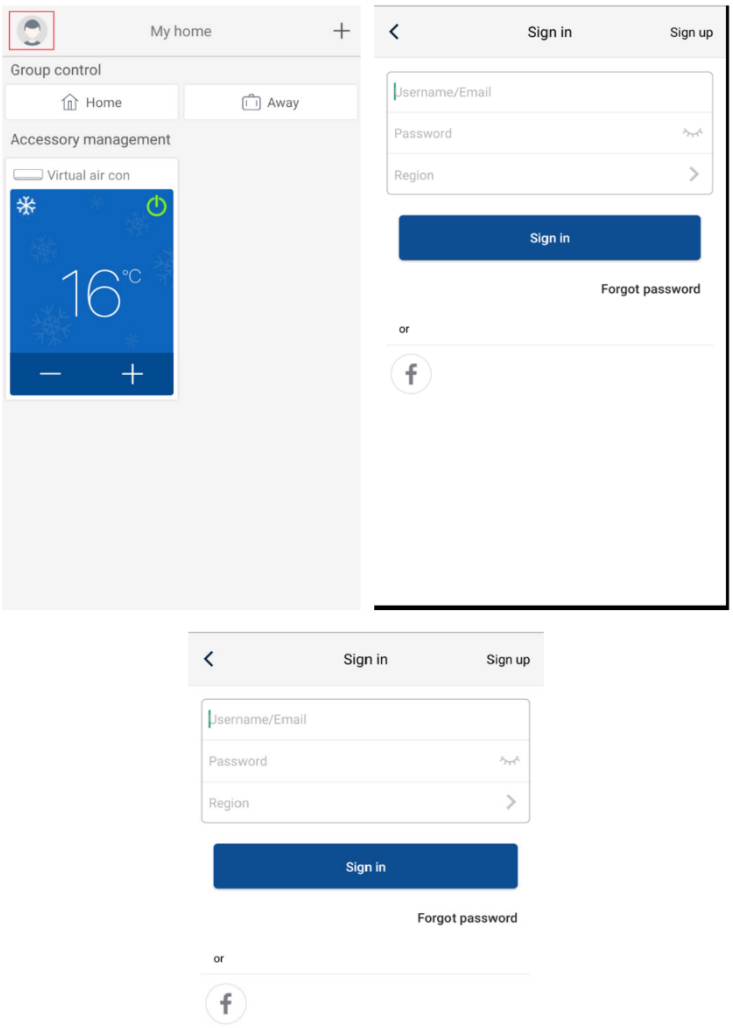
- **Prima di iniziare qualsiasi procedura, scollegare l'alimentazione dal prodotto, lasciare passare qualche minuto e ricollegare.**
- **L'App è soggetta ad aggiornamenti, le illustrazioni presenti nel manuale potrebbero essere soggette a modifiche.**

2. Open Ewpe Smart APP and click "Sign up" for registration.

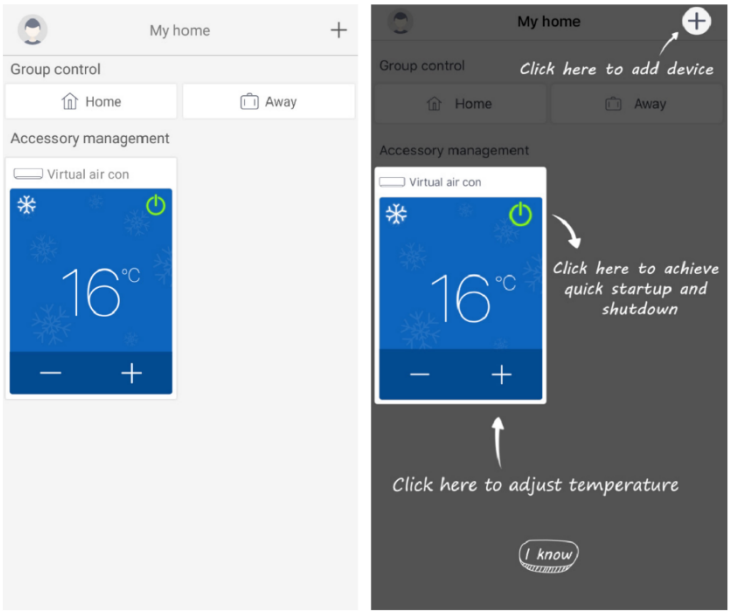


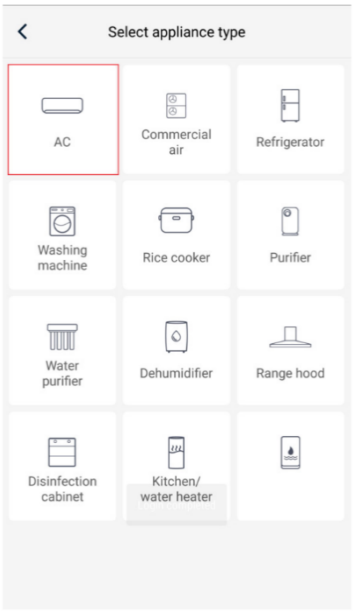


3. Except sign in in the prompt interface, you can also enter the homepage and click the profile picture at the left upper corner to sign in.

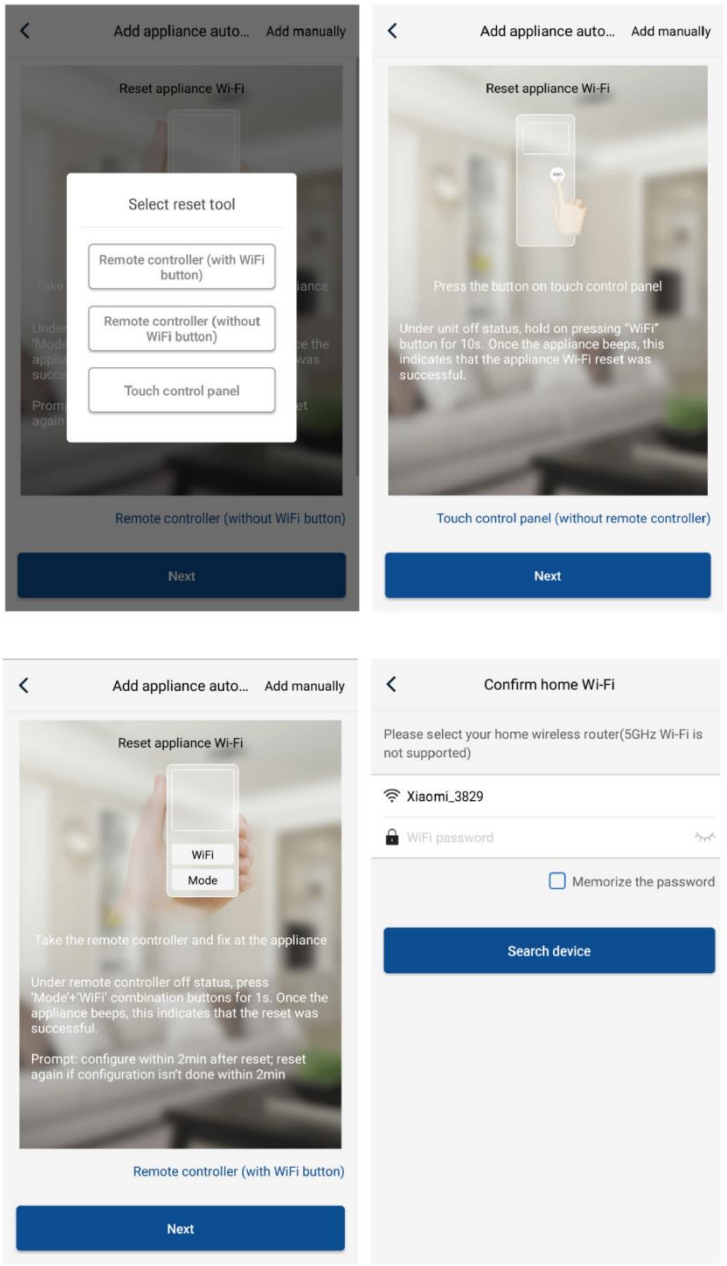


4. Click "**+**" at the right upper corner of homepage to add device.

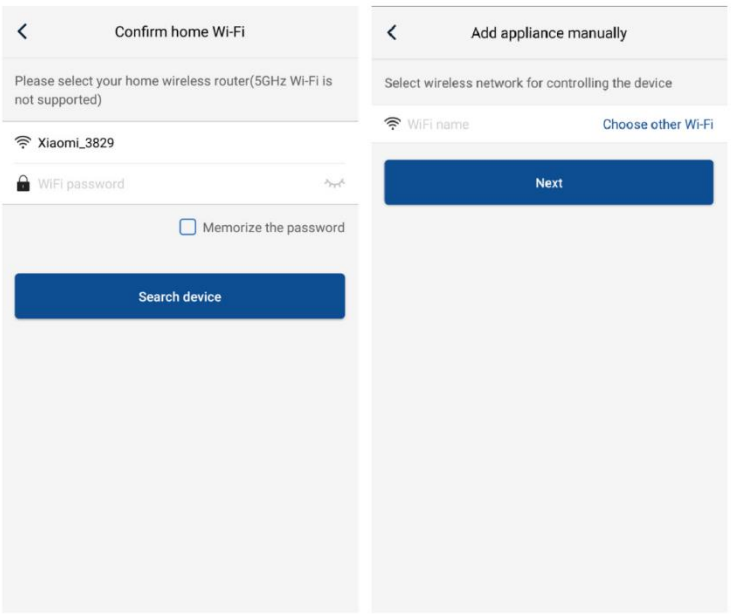




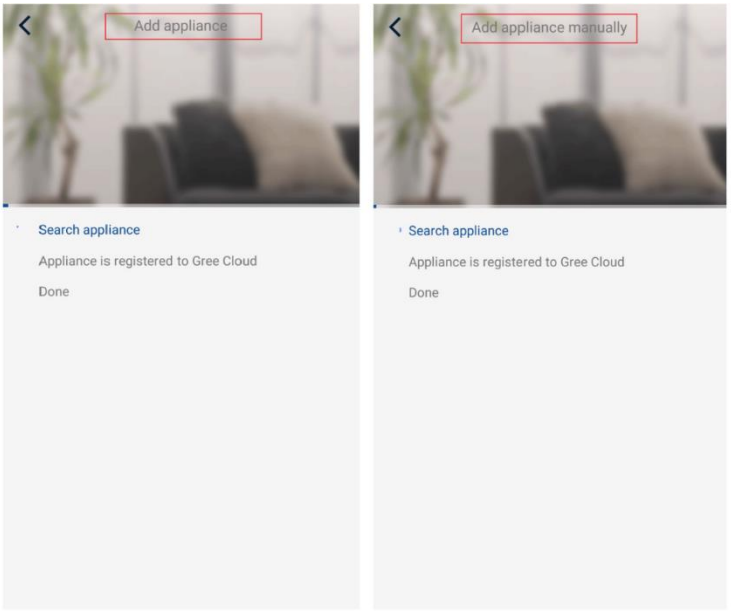
After selecting “**AC**”, you can select different reset tools according to actual situation. The APP interface will provide relevant operation instructions for different tools.

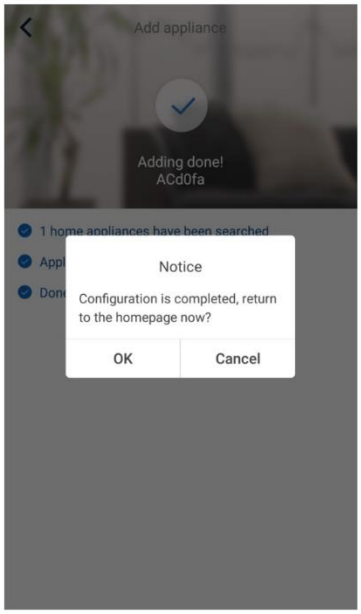


Reset the air conditioner (refer to the operation instructions in APP interface) and click "**Next**" to add home appliance automatically (Wi-Fi password shall be input). Or after setting and energizing the air conditioner, click "**Add appliance manually**" at the right upper corner to select the wireless network for controlling the device. Then confirm family Wi-Fi and arrange configuration.



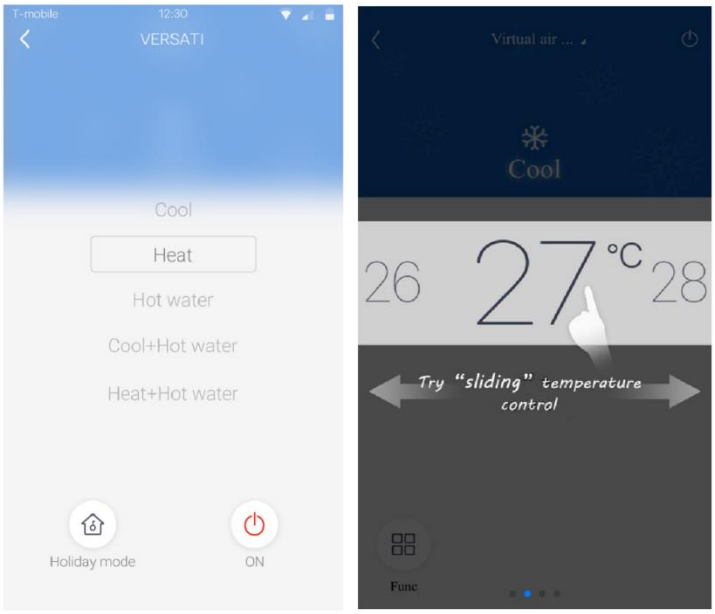
After accomplishing device reset and filling correct information, search device and arrange configuration.



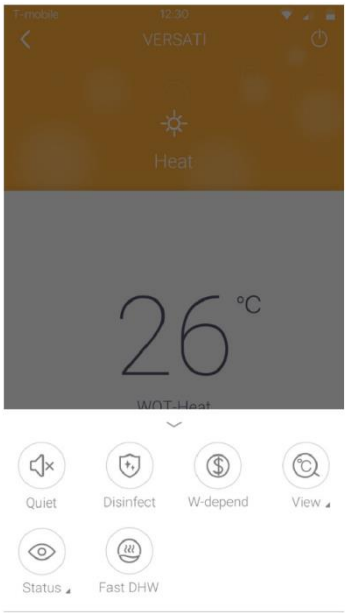


11.3 Setting of Main Functions

1. Set mode and temperature.

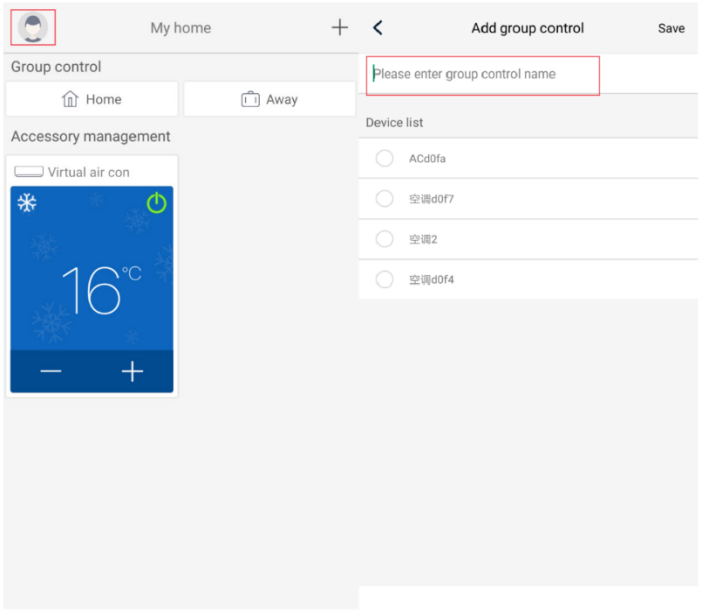


2. Click Func at the left lower corner in device operation interface to enter advanced settings.



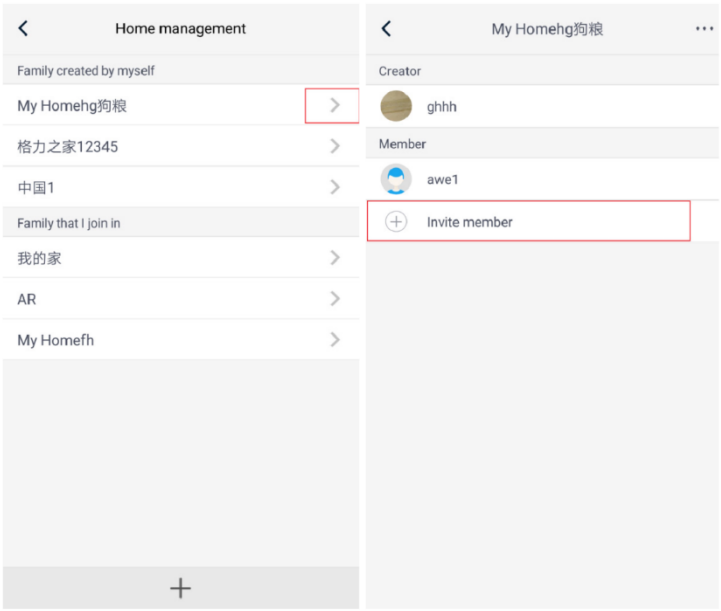
11.4 Setting of Other Functions

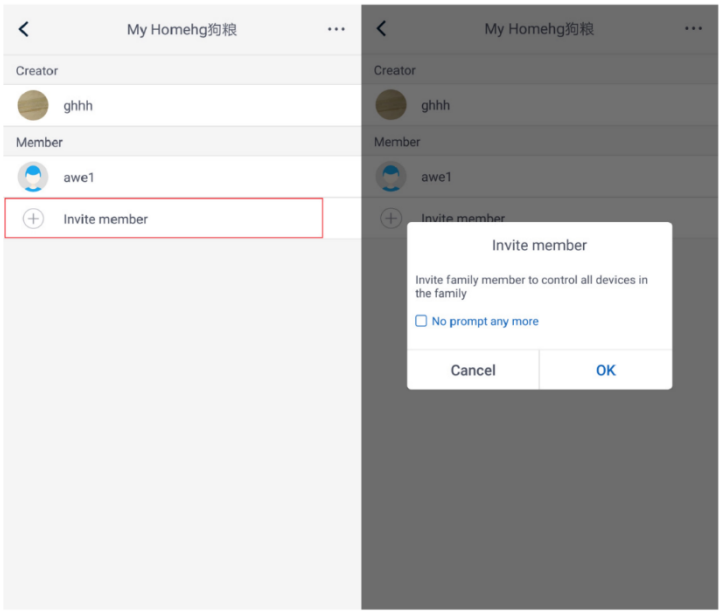
Click the profile picture at the left upper corner of homepage and set each function in the following menu.

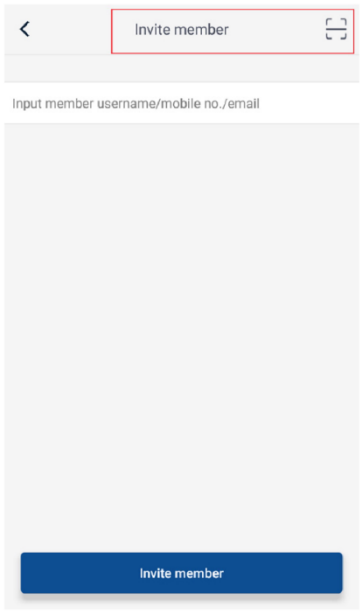


11.4.1 Home management

Click “**Home management**” to create or manage family. You can also add family members according to the registered account.

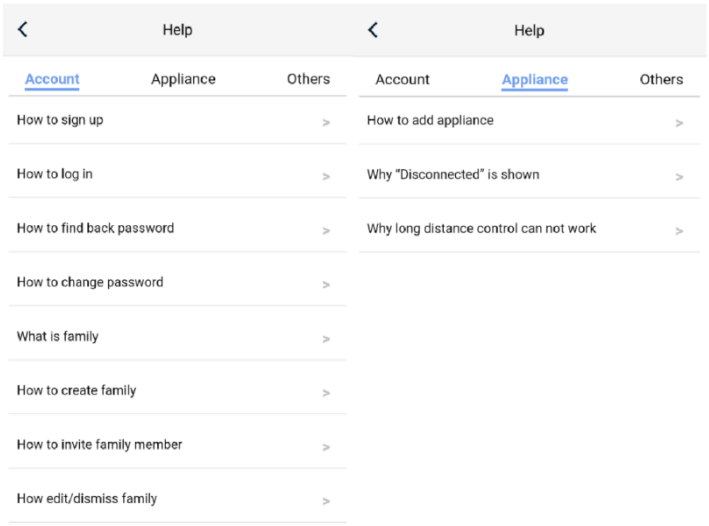

Home management
Family created by myself
My Homehg狗粮
格力之家12345
中国1
Family that I join in
我的家
AR
My Homefh
My Homehg狗粮
Creator
ghhh
Member
awe1
Invite member

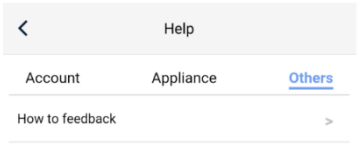

My Homehg狗粮
Creator
ghhh
Member
awe1
Invite member
Invite member
Invite family member to control all devices in the family
No prompt any more
Cancel
OK


Invite member
Input member username/mobile no./email
Invite member

11.4.2 Help

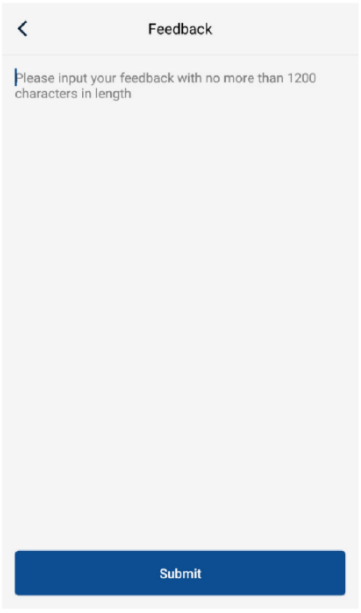
Click “**Help**" and view the operation instructions of the APP.





11.4.3 Feedback

Click “**Feedback**” to submit feedback.



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