



Scan the QR code to
read the manual in
different languages



Scan the QR code
to install the control
APP.

OPERATION MANUAL



Original instructions.

Please read this manual carefully and keep it for future reference.

All the pictures in this manual are for illustration purposes only.

The screen of the wired controller is with seven touch keys instead of a touchscreen.

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1 GENERAL SAFETY PRECAUTIONS

- This document is applicable only to the wired controller. Read this document and follow the instructions carefully before operating the wired controller.
- Always observe all the operating instructions.
- Hand these instructions and all other applicable documents to the end user.

WARNING

Follow the safety precautions in the INSTALLATION MANUAL for the correct use of the heat pump unit.

1.1 Safety Signs

Action-related warnings in the document:

WARNING

It indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

NOTE

Additional information.

1.2 Notice to Users

If you are not sure how to operate the unit, contact your installer.

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge provided that they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and maintenance shall not be made by children without supervision.
- The unit is marked with the following symbol:



This means that electrical and electronic products may not be mixed with unsorted household waste. Do not try to dismantle the system yourself. The dismantling of the system and the treatment of the refrigerant, oil and other parts must be done by an authorized installer and must comply with applicable legislation.

The unit must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

- Working conditions of the wired controller.

| | |
|-----------------------|-------------------|
| Input voltage | 12 V DC |
| Operating temperature | 14 °F to 109.4 °F |
| Humidity | ≤ RH 90 % |



Troubleshooting of networking failures

When connecting the product to a network, please keep the product as close to your phone as possible.

At present, the product only supports 2.4 GHz band routers.

Special characters, such as punctuation and space, are not recommended as a part of the WLAN name.

The number of devices connecting to the same router should not exceed 10. Otherwise, the devices may be disconnected due to unstable signals.

If the password of the router or WLAN is changed, clear all settings and reset the appliance.

The contents of APP might change in version updates and actual operation shall prevail.

WIFI information

WIFI transmission frequency range: 2.400~2.4835 GHz

EIRP ≤ 20 dBm

About Bluetooth

The Bluetooth only works during wifi connection, and it turns off automatically after the wifi connection.



NOTE

It is recommended to use shielded wires when installing the wired controller.

2 DOCUMENTATION

- Scan the QR code on the right for other languages.

This document is part of a documentation set.
The complete set consists of:

- **Installation Manual**

Brief installation instructions

Format: paper (included with the outdoor unit)

- **Operation Manual (this manual)**

Quick guide for basic usage

Format: paper (included with the outdoor unit)

- **Technical Data Manual**

Performance data and ERP information

Format: paper (included with the outdoor unit)

Online Tools (APP)

APP: scan the QR code on the right or in the front page to download the app



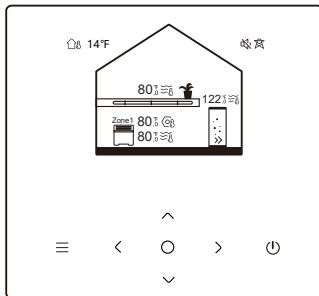
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APP

3 USER INTERFACE

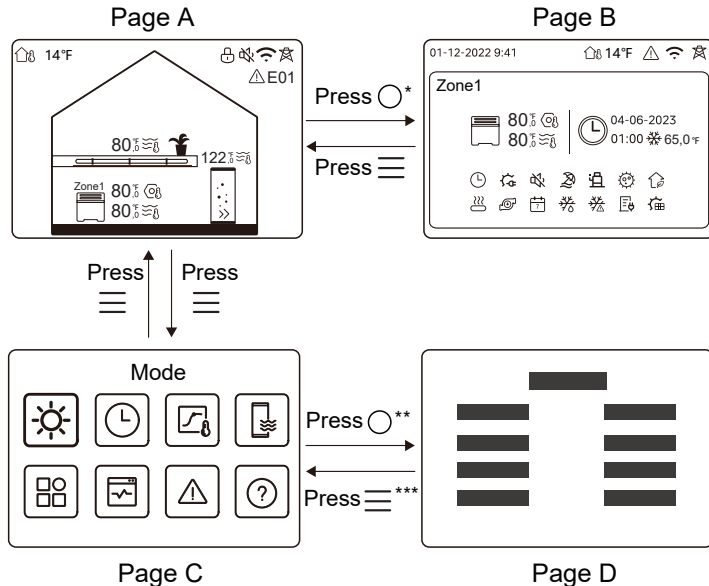
3.1 Names and Functions



| Icon | Name | Definition |
|---------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| ≡ | Menu/Return* | Press to access the menu page (from the home page) / return to the previous page (from a page other than the home page) |
| ○ | Confirm | Confirm a selection / Save settings / Access the next page |
| ⏻ | ON/OFF | Turn on/off zone 1/zone 2/DHW Press and hold for 3 seconds to turn on/off all appliances (zone 1 / zone 2 / DHW). |
| ^ < > v | Navigation: upward, downward leftward, rightward | Press to navigate the cursor to adjust settings (holding it for 1 second can start quick adjustment) |

* Hold for 2 seconds to return to the main page.

3.2 Interface Switch



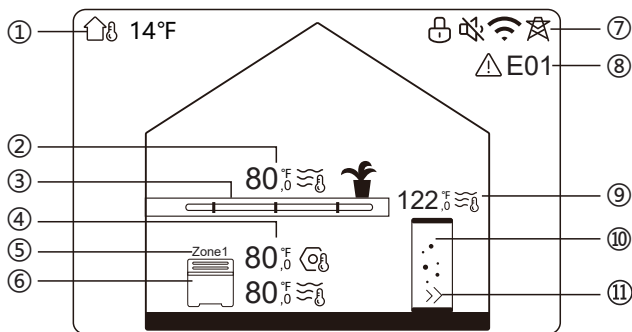
* To switch from Page A to Page B, select an appliance first.







** To switch from Page C to Page D, select a target icon first.












***To switch from Page D to Page C, press several times (depending on the page level).














3.3 Interface Layout

Page A – Home page



| No | Name | | Icon | Note |
|----|-----------------------------|---------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Outdoor ambient temperature | |  14°F | Current outdoor ambient temperature |
| 2* | Zone 2 temperature | Temperature | 80°F  | The indicator lights up when Zone 2 is ON and turns gray when Zone 2 is OFF. When the temperature is controlled by room temperature,  is displayed. When the temperature is controlled by water temperature,  is displayed. |
| | | Current room temperature |  | |
| | | Current water temperature |  | |

| | | | | |
|----|---------------------|---------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Set temperature |  | When Zone 2 is selected, the zone indicator and set temperature are visible. |
| 3* | Zone 2 appliances | Radiator |  | Displays  , or  depending on the installer setting. The icon color is orange when Zone 2 is in heating mode. The icon color is blue when Zone 2 is in cooling mode. The icon color is gray when Zone 2 is OFF. |
| | | Underfloor heating |  | |
| | | Fan coil unit |  | |
| 4 | Zone 1 temperatures | Temperature | 80°F 80°F | The indicator lights up when Zone 1 is ON and turns gray when Zone 1 is OFF. When the temperature is controlled by room temperature,  is displayed. When the temperature is controlled by water temperature,  is displayed. When Zone 1 is selected, the zone indicator and set temperature are visible. |
| | | Current room temperature |  | |
| | | Current water temperature |  | |
| | | Set temperature |  | |
| 5 | Zone 1 indicator | | Zone 1 | Indicates this zone is Zone 1. |

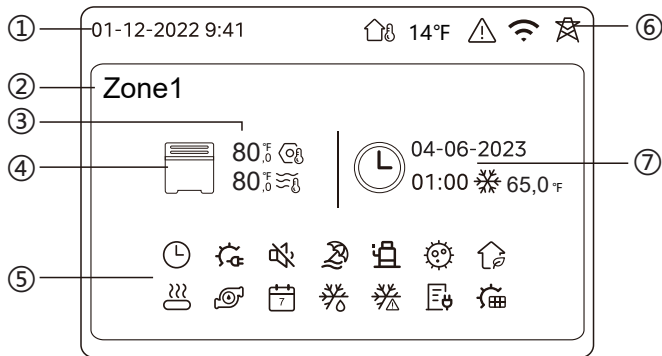
| | | | | |
|-----|----------------------|---------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | Zone 1 appliance | Radiator |  | <p>Displays  ,  or  depending on the installer setting.</p> <p>The icon color is orange when Zone 1 is in heating mode.</p> <p>The icon color is blue when Zone 1 is in cooling mode.</p> <p>The icon color is gray when Zone 1 is OFF.</p> |
| | | Underfloor heating |  | |
| | | Fan coil unit |  | |
| 7 | Lock | |  | Visible when the screen is locked. |
| | Silent mode | |  | Visible when the silent mode is active. |
| | WLAN connection | |  | Visible during WLAN connecting and after successful WLAN connection. |
| | Smart grid | |  | Visible when smart grid function is active. |
| 8 | Error | |  E01 | Visible when any error exists. |
| 9** | DHW tank temperature | Temperature | 122.0°F  | <p>The indicator lights up when DHW is ON and turns gray when DHW is OFF.</p> <p>When DHW is selected, set temperature is visible.</p> |
| | | Current water temperature |  | |












| | | | | |
|------|----------|-----------------|-----------------------------------------------------------------------------------------------------|--|
| | | Set temperature | | |
| 10** | DHW tank | | The icon color is orange when DHW heating is ON. The icon color is gray when DHW heating is OFF. | |
| 11** | Fast DHW | | Visible when fast DHW is active. | |















* Invisible if DOUBLE ZONE is disabled.









**Invisible if DHW MODE is disabled.

Page B – Appliance page

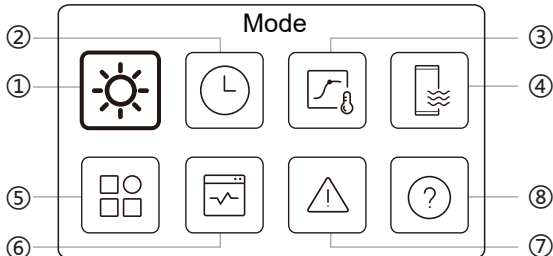


| No | Name | | Icon | Note |
|----|---------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Date | | 01-12-2022 | Current date (DD-MM-YYYY) and time (HH:MM) of the wired controller. |
| | Time | | 9:41 | |
| 2 | Zone indicator | | Zone1 | Display 1 or 2 depending on the zone you have selected. |
| 3 | Temperature | | 80 ^{°F} ₀ 80 ^{°F} ₀ | When the temperature is controlled by room temperature,  is displayed. |
| | Current room temperature | |  | |
| | Current water temperature | |  | When the temperature is controlled by water temperature,  is displayed. |
| | Set temperature | |  | |
| 4 | Appliance | Radiator |  | Displays  ,  or  depending on the installer setting. The icon color is orange when the selected appliance is in heating mode. The icon color is blue when the selected appliance is in cooling mode. The icon color is gray when the selected appliance is OFF. |
| | | Underfloor heating |  | |
| | | Fan coil unit |  | |

| | | | |
|---|------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| 5 | Electric heater |  | Visible if any electric heater is active. |
| | Daily timer |  | Visible if the daily timer is active. |
| | Silent mode |  | Visible when silent mode is active. |
| | Holiday mode |  | Visible when holiday mode is active. |
| | Compressor |  | Visible when the compressor is running. |
| | Water pump |  | Visible when the integrated water pump is running. |
| | Energy saving mode |  | Visible when ECO mode is active. |
| | Anti-freeze |  | Visible when anti-freeze function is active. |
| | Defrost |  | Visible when defrost function is active. |
| | Additional heat source |  | Visible when additional heat source is active. |
| | Mains electricity |  | Visible when smart grid function is active and the input signal is mains electricity. |
| | Peak electricity |  | Visible when smart grid function is active and the input signal is electricity at peak. |
| | Green electricity |  | Visible when smart grid function is active and the input signal is electricity for free. |
| | Solar |  | Visible when solar heating function is active. |

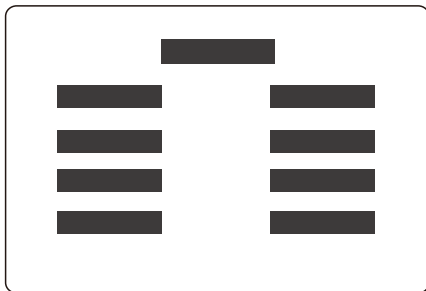
| | | | | |
|---|-----------------------------|---------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| | Disinfection | |  | Visible when disinfection function is active. |
| | Weekly timer | |  | Visible when the weekly timer is active. |
| 6 | Outdoor ambient temperature | |  14°F | Current outdoor ambient temperature. |
| | Error | |  | Visible when any error exists. |
| | WLAN connection | |  | Visible during WLAN connecting and after successful WLAN connection |
| | Smart grid | |  | Visible when smart grid function is active. |
| 7 | Timer indicator | Time icon |  | Displays the recent timer information (for Schedule timer only). When no timer is active, "---" is displayed. |
| | | Time of the Timer | 01:00 | |
| | | Date of the Timer | 04-06-2023 | |
| | | Set operation mode of the timer |  | |
| | | Set temperature of the timer | 65,0 °F | |
| | | | | |

Page C – Menu page



| No. | Name | Icon | Definition |
|-----|------------------------|------|---------------------------------------------------------------------------------------|
| 1 | Mode | | Set the unit operation mode. |
| 2 | Schedule | | The system operates according to a schedule. |
| 3 | Weather temp. settings | | Allow to regulate the water temperature depending on the outdoor ambient temperature. |
| 4 | DHW settings | | Settings of DHW. |
| 5 | Settings | | General settings. |
| 6 | Unit status | | More information of the unit and its operation status. |
| 7 | Error info | | Error history. |
| 8 | FAQ | | Assistance for common questions. |

Page D – Setting and information page





The page layout varies with your selection. It is either the setting page in which the parameters can be adjusted, or the information page which only provides additional information.


4 BASIC OPERATIONS

4.1 Screen Lock/Unlock

The screen dims 30 seconds after no operation, and then turns dark in 10 seconds.

To lock or unlock the screen, hold  and  simultaneously for 1.5 seconds.

4.2 Unit ON/OFF

Select an appliance (icon 3, 6, or 10) in Page A, and press  to turn ON/OFF the selected appliance.

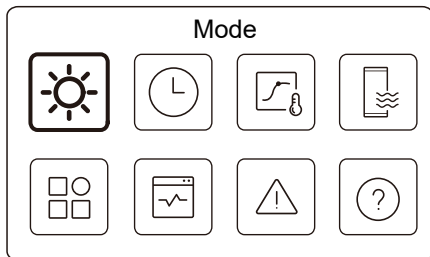
| Appliance color on the wired controller | Appliance status |
|-----------------------------------------|------------------|
| Dark gray | OFF |
| Light orange | ON(heating mode) |
| Light blue | ON(cooling mode) |

4.3 Temperature Settings

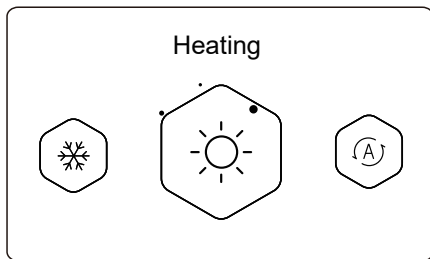
Select an appliance, and press  and  to adjust the set temperature.

- Set temperature adjustment is feasible regardless of the appliance status.

4.4 Mode Change



Access icon 1 in Page C to change the operation mode.



Press ◀ or ▶ to change the operation mode.
Three modes are optional: Heating, Cooling, and Auto.

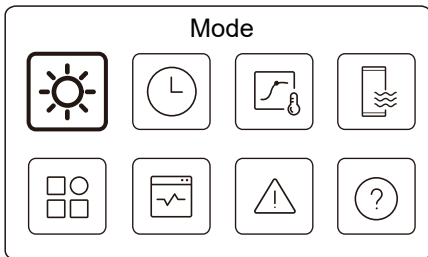
NOTE

About AUTO mode:

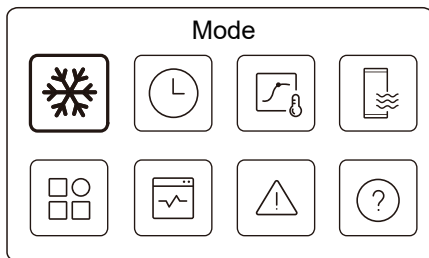
- The unit selects the operation mode automatically based on the outdoor ambient temperature and some advanced settings of the installer.

You can see the interfaces as below when the unit is running in different modes.

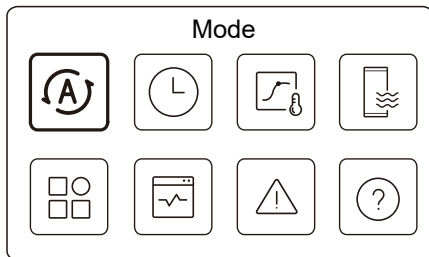
Heating:



Cooling:



Auto:



NOTE



Cooling mode for Zone 2 is only available for specific models.

5 OTHER FUNCTIONS AND SETTINGS

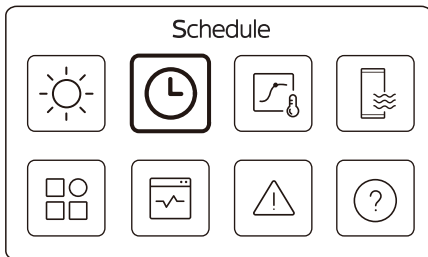
The settings and operation guide of icons 2, 3, 4, 5, 6, 7, and 8 in Page C are shown below.

NOTE

The icon below is the status indicator.

 means inactive, and  means active.

5.1 Schedule



You can make schedules for the unit operation.

| Schedule | |
|-----------------------|-------|
| Zone1 daily timer | ON > |
| Zone2 daily timer | ON > |
| DHW daily timer | OFF > |
| Zone1 weekly schedule | ON > |

| Schedule | |
|------------------------|-------|
| Zone 2 weekly schedule | ON |
| DHW weekly schedule | ON > |
| Holiday away | OFF > |
| Holiday home | ON > |

The status indicator on the right of the interface shows “ON” when the schedule is active, and “OFF” when the schedule is inactive.




NOTE

You might see less items than what is illustrated above. The number of visible items depends on your actual application.

This function is based on the current time displayed on the wired controller. Make sure the time is correct.

Zone 1 daily timer

For daily schedule for Zone 1, 4 parameters can be set. Up to 6 commands can be set..

| Zone 1 daily timer | | | | |
|--------------------|-------|-----------------------------------------------------------------------------------|--------|-------------------------------------|
| No. | Time | Mode | Temp. | |
| 01 | 01:00 |  | 65,0°F | <input checked="" type="checkbox"/> |
| 02 | 20:00 |  | 65,0°F | <input type="checkbox"/> |
| 03 | 00:30 | OFF | 32,0°F | <input type="checkbox"/> |
| 04 | 00:30 |  | 65,0°F | <input type="checkbox"/> |

NOTE

Daily schedule: The commands repeat every day.

| | |
|--------|---------------------------------------------------------------------------------------------------------|
| Time | The time when the unit starts to execute the following command. |
| Mode | The mode in which the unit starts to run from the set time. OFF means Zone 1 turns off at the set time. |
| Temp | The target temperature of the unit in the set mode. |
| Status | The status of the schedule setting. If no timer is active, Zone 1 daily timer is inactive. |

Zone 2 daily timer

Daily schedule for Zone 2. Refer to Zone 1 daily timer.

This item is invisible if DOUBLE ZONE is disabled.

DHW daily timer

Daily schedule for DHW heating. Refer to Zone 1 daily timer.

This item is invisible if DHW MODE is disabled.

Zone 1 weekly schedule

Weekly schedule for Zone 1. Up to 4 schedules can be set.

Zone 1 weekly schedule

Schedule 1

ON >

Schedule 2

ON >

Schedule 3

OFF >

Schedule 4

ON >

NOTE

Weekly schedule: The commands repeats every week.

Zone 1 weekly schedule 1

Weekly schedule ☒

Press ☐ and you can see the interface below.

Zone 1 weekly schedule 1

Weekly schedule ☒

Day Every day >

Command >

Day:

Zone 1 weekly schedule

| | |
|-----------|----------------------------------|
| Sunday | <input checked="" type="radio"/> |
| Monday | <input type="radio"/> |
| Tuesday | <input type="radio"/> |
| Wednesday | <input type="radio"/> |

Command:

Zone 1 weekly schedule 1

| No. | Time | Mode | Temp. | |
|-----|-------|------|--------|--------------------------|
| 01 | 01:00 | | 65,0°F | <input type="checkbox"/> |
| 02 | 20:00 | | 65,0°F | <input type="checkbox"/> |
| 03 | 00:30 | | 32,0°F | <input type="checkbox"/> |
| 04 | 00:30 | | 65,0°F | <input type="checkbox"/> |

| | |
|-----------------|------------------------------------------------------------------------------------------------------|
| Weekly schedule | Indicates the status of the weekly schedule. |
| Day | The day on which the following command is active within a week. At least one day should be selected. |
| Command | Refer to Zone 1 daily timer. |

Zone 2 weekly schedule

Weekly schedule for Zone 2. Refer to Zone 1 weekly schedule.
This item is invisible if DOUBLE ZONE is disabled.

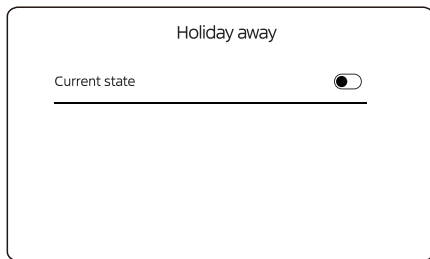
DHW weekly schedule


Weekly schedule for DHW heating. Refer to Zone 1 weekly Schedule and DHW daily timer.

This item is invisible if DHW MODE is disabled.

Holiday away

Schedule for holiday, providing a mild temperature for the residence to prevent freezing.



Press  and you can see the interface below.

Holiday away

Current state ☒

From 15-08-2022

Until 17-09-2022

Heating mode ☒

Holiday away

DHW mode ☐

Disinfect ☐

| | |
|----------------|----------------------------------------------------------------|
| Current Status | Indicates the status of Holiday away mode. |
| From | The day on which Holiday away mode starts (00:00 on that day). |
| Until | The day on which Holiday away mode ends (24:00 on that day). |

| | |
|----------------|---------------------------------------------------------|
| Heating Mode* | Indicates the status of heating mode. |
| Heating Temp.* | The target temperature of the unit in heating mode. |
| DHW Mode** | Indicates the status of DHW heating mode. |
| DHW Temp.** | The target temperature of the unit in DHW heating mode. |
| Disinfect*** | Indicates the status of disinfect function. |

* Invisible if Heating mode is inactive.

** Invisible if DHW mode is inactive.

*** Invisible if DHW mode or disinfection is inactive.

NOTE

You might see less items than what is illustrated above. The number of visible items depends on your actual application.

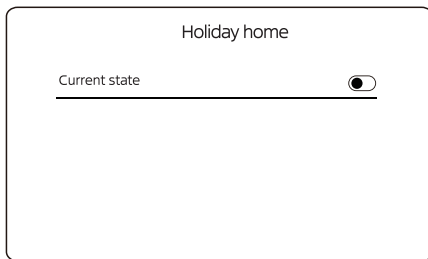
Quit Holiday away mode in advance:


When Holiday away mode is active, press any button on the wired controller. Then, a confirmation page appears.

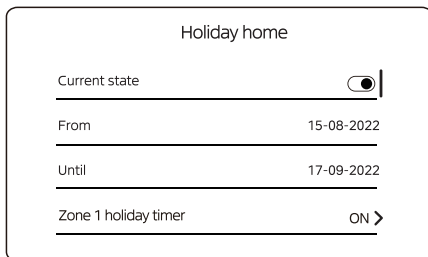
For more information, see FAQ.

Holiday home

In case that user stays at home for holiday, user can make customized schedule.



Press  and you can see the interface below.



Holiday home

Zone 2 holiday timer
ON >

DHW holiday timer
ON >|

| Current Status | Indicates the status of Holiday home mode. |
|-----------------------|---------------------------------------------------------------|
| From* | The day on which Holiday home mode starts (00:00 on that day) |
| Until* | The day on which Holiday home mode ends (24:00 on that day) |
| Zone 1 holiday timer* | Zone 1 holiday timer. |
| Zone 2 holiday timer* | Zone 2 holiday timer. |
| DHW holiday timer* | DHW holiday timer. |

* Invisible if Holiday home mode is inactive.

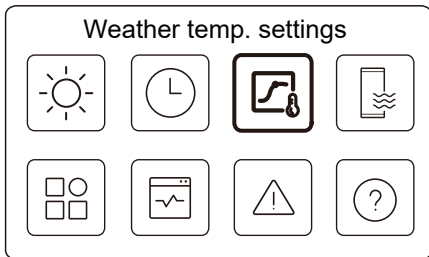
NOTE

You might see less items than what is illustrated above. The number of visible items depends on your actual application.

Quit Holiday home mode in advance:

When Holiday home mode is active, press any key on the wired controller. Then, a confirmation page appears.. For more information, see FAQ.

5.2 Weather temp. settings



The set water temperature is regulated automatically depending on the outdoor ambient temperature.

This function is only for space heating and space cooling. When the function is active, the unit will apply temperature curves if the current operation mode is consistent with the activated function

Weather temp. settings

Weather temp. settings introduction

>

Zone 1 heating mode

ON >

Zone 1 cooling mode

OFF >

Zone 2 heating mode

OFF >

Weather temp. settings

Zone 2 cooling mode

OFF >

The status indicator on the right of the interface shows “ON” when the setting is active, and “OFF” when the setting is inactive.

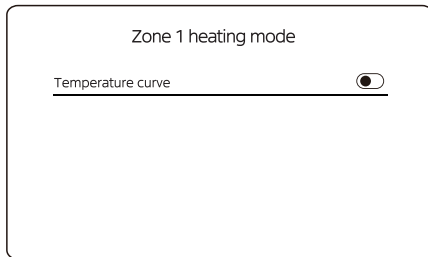
NOTE


- If the temperature is controlled by water temperature, you cannot adjust the set temperature (in home page) manually once this function is enabled.

- If the temperature is controlled by room temperature, the set temperature (in home page) can be adjust as usual.
- This function is invalid if the unit is in holiday away or holiday home mode, and the function turns to valid automatically (if this function is set to be active) when the unit quits holiday away or holiday home mode.


Zone 1 heating mode

Heating temperature curve setting for Zone 1.



Press  and you can see the interface below

Zone 1 heating mode

| | |
|------------------------|-----------------------------------------------------------------------------------|
| Temperature curve |  |
| Temperature curve type | Standard |
| Temperature level | 4 |
| Temperature offset | 0°F |

| | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature curve | Indicates the status of temperature curve function. |
| Temperature curve type* | <p>Select which curve type you want to apply. Three types in all: Standard, ECO, Custom Standard: Curves preset by manufacturer, mainly for common conditions ECO: Curves preset by manufacturer, for energy saving Custom: The parameters of the curve can be adjusted, mainly for advanced users.</p> |
| Standard | |
| Temperature level* | Up to 8 curves preset by manufacturer, from which you can choose one. |
| Temperature offset* | <p>Fine tune the curve. -Slightly increase or decrease the temperature of the curve.</p> |

| ECO** | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature level* | Up to 8 curves preset by manufacturer, from which you can choose one. |
| ECO timer* | <p>ECO timer: Indicates the status of ECO timer.</p> <p>-If the ECO timer is inactive, the unit will operate in ECO mode all the way.</p> <p>-If the ECO timer is active, the unit will operate in ECO mode only during the set time period.</p> <p>Start: the hour from which the ECO curve is enabled; End: the hour from which the ECO curve is disabled</p> <p>-If the set Start time is later than the set End time, the unit will operate in ECO mode throughout a day. The Start time and End time cannot be set to the same value. Otherwise, the most recent setting is invalid, and a notice window appears.</p> |
| Custom | |
| Temperature setting* | The parameters of the curve can be adjusted. |
| Temperature offset* | <p>Fine tune the curve.</p> <p>-Slightly increase or decrease the temperature of the curve.</p> |

* Invisible if Temperature curve function is inactive.

** Available only for Zone 1 heating mode and single zone application.

Zone 1 cooling mode

Cooling temperature curve setting for Zone 1.
Refer to Zone 1 heating mode.

Zone 2 heating mode

Heating temperature curve setting for Zone 2.
Refer to Zone 1 heating mode.

NOTE

Invisible if DOUBLE ZONE is disabled.

Zone 2 cooling mode

Cooling temperature curve setting for Zone 2.
Refer to Zone 2 heating mode.

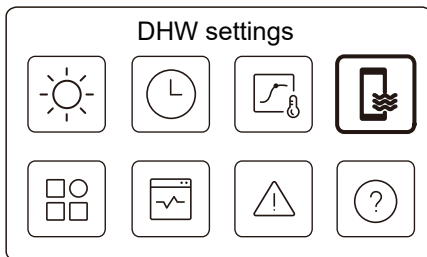
NOTE

Invisible if DOUBLE ZONE is disabled.

Introduction to weather temp. settings

It provides some basic knowledge about the temperature curve.
For more information, see FAQ.

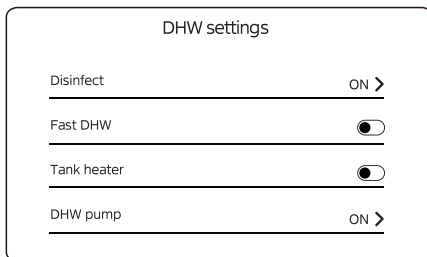
5.3 DHW settings



NOTE

Invisible if DHW MODE is disabled.

The status indicator on the right of the interface shows “ON” when the setting is active, and “OFF” when the setting is inactive.



| | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Disinfect | Kill Legionella at high temperature. |
| → Current State | Indicates the status of Disinfect function. |
| → Operate Day | The day on which Disinfect function is active within a week. At least one day should be selected. |
| → Start | The hour when Disinfect function starts. |
| Fast DHW* | Indicates the status of Fast DHW function. -Fast DHW function forces the unit to run in DHW mode (the unit will switch to DHW mode immediately). -Fast DHW serves to activate auxiliary heat sources such as TBH, AHS, and IBH for DHW heating. |
| Tank heater* | Indicates the status of Tank heater function. -Tank heater function serves to activate TBH. |
| DHW pump | Daily schedule for DHW pumps -Up to 12 commands can be set. The operation time of DHW pumps for each command is 5 minutes. |

* The status indicator will turn OFF automatically after the function ends.

Disinfect

Disinfect

Current state ☐

Press ☐ and you can see the interface below

Disinfect

Current state ☒

Operation day

Start









NOTE

- If there is DHW Timer set off during disinfect function running. The disinfect function will be stopped without any notice.

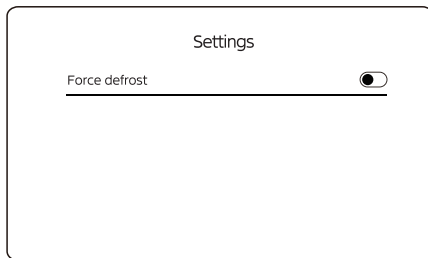
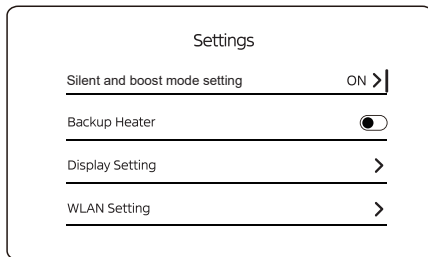
DHW pump

| DHW pump | |
|----------|-------------------------------------------|
| No. | Time |
| 01 | <input checked="" type="checkbox"/> 01:00 |
| 02 | <input checked="" type="checkbox"/> 20:00 |
| 03 | <input checked="" type="checkbox"/> 00:30 |
| 04 | <input checked="" type="checkbox"/> 00:30 |

5.4 Settings

| Settings | | | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |
|  |  |  |  |

The status indicator on the right of the interface shows “ON” when the setting is active, and “OFF” when the setting is inactive.

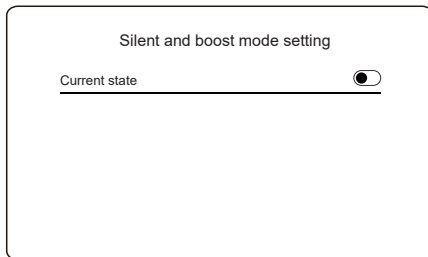



Silent and boost mode setting

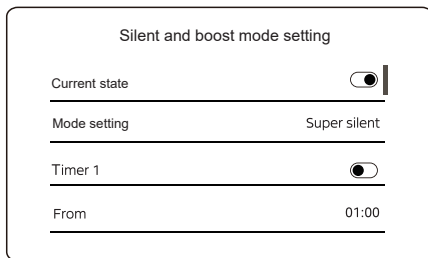
You can select Silent mode or Boost mode.

In Silent mode, the unit operates without producing much noise.

In Boost mode, the unit operates with higher capacity and higher noise, power consumption as well.



Press  and you can see the interface below.



NOTE

Boost mode is only available for specific models.

Silent and boost mode setting

Until
12:00

Timer 2
☒

From
01:00

Until
06:00

| | |
|---------------|-------------------------------------------------------------------------------|
| Current state | Indicate the status of Silent and boost mode setting. |
| Mode setting | Select which level you want to apply to: (1)Silent; (2)Super silent; (3)Boost |
| Timer 1 | Indicate the status of Timer 1. |
| From | The Silent and boost mode setting start time of Timer 1 |
| Until | The Silent and boost mode setting end time of Timer 1 |
| Timer 2 | Indicate the status of Timer 2. |
| From | The Silent and boost mode setting start time of Timer 2 |
| Until | The Silent and boost mode setting end time of Timer 2 |

- When Current state is active and Timer is inactive, the unit runs in Silent or Boost mode all the time. When Current state is active and Timer is also active, the unit runs in Silent or Boost mode only in the set time period.

- If the set start time is later than the set end time, the unit will operate in Silent or Boost mode throughout a day. The Start time and End time cannot be set to the same value. Otherwise, the most recent setting is invalid, and a notice window appears.

Backup Heater

- Invisible when IBH/AHS function is disabled.

The status indicator will turn OFF automatically after the function is off.

Settings

Silent and boost mode setting ON >|

Backup heater ☒

Display setting >

WLAN setting >

Display Setting

Display Setting

Time 12:30

Date 15-08-2022

Daylight saving time >

Language English >


Display Setting

Backlight >

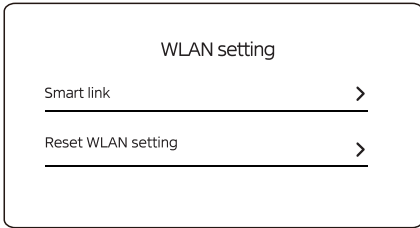
Buzzer ☒

Screen lock >

Screen lock time 120seconds

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Time | Set the current time of HMI. |
| Date | Set the current date of HMI. |
| Daylight saving time | Set summer time start time and end time. <div>  NOTE Timer could be skipped when the wired controller switches summer time. </div> |
| Language | Set the language of HMI. |
| Backlight | Set the backlight brightness. |
| Buzzer | Indicates the status of Buzzer. |
| Screen Lock | Reminds user how to lock and unlock the screen. |
| Screen Lock Time | Set the automatic screen lock timer. |
| Decimal separator | Switch decimal separator type. |
| Unit display | Switch unit display type. |

WLAN Setting



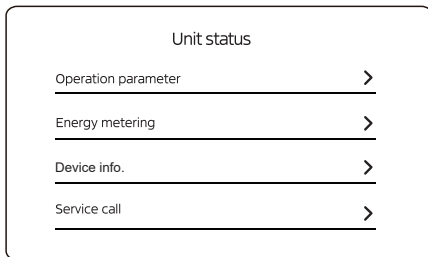
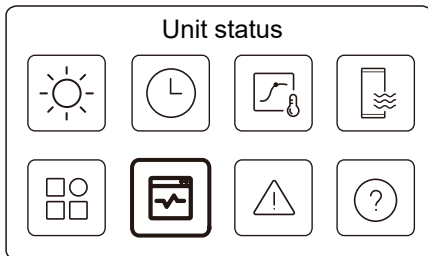
| | |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Link | <p>Jump to a new page, which contains the SN code of the wired controller.</p> <p>-Every time you enter the Smart Link screen, the WLAN connection is activated for 5 minutes.</p> <p>-With the WLAN connection activated, connect to the unit through the app. Refer to the instructions of the app for more information.</p> |
| Reset WLAN setting | <p>A page for confirmation appears.</p> <p>-If you confirm the reset, the unit will disconnect with the app. If you want to use the app to operate the unit, connect the unit with the WLAN again.</p> |

Force Defrost

Current State: Indicates the status of Force Defrost.

- The status indicator will turn OFF automatically after Force Defrost ends.

5.5 Unit Status








Operation parameter

A list of parameters related to the units (both master units and slave units).

You can check the current status of each parameter.

Press  or  to switch the unit.

-Ask your installer for more information of each parameter.

| | |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Energy metering | <p>You can check the produced energy, consumed power and efficiency of the unit for every type.</p> <p>Three types in all:</p> <ul style="list-style-type: none"> -Heating energy data* -Cooling energy data* -DHW energy data* <p>Two functions:</p> <ul style="list-style-type: none"> -Energy data: you can check the hourly, daily, weekly, monthly, or yearly data or total data. -Historical data: you can check the historical data. <div style="background-color: #333; color: white; text-align: center; padding: 5px;">  NOTE </div> <ul style="list-style-type: none"> • COP/EER is calculated under normal operating conditions. |
| Device info. | <p>The SN code and software version of the wired controller, outdoor unit or indoor unit (if applicable).</p> <p>Press  to  switch information page (SN code and software)</p> <p>You can check both the master units and slave units. Press  or  to switch the unit (master units and slave units).</p> |
| Service call | The phone number of your installer or dealer. |

* Visible with --- displayed, if the function is disabled accordingly.

Operation parameter

| Operation parameter | | | |
|---------------------|-----|--------------------|----------|
| Unit | NO. | | |
| #00 | 1 | Online unit number | 1 |
| #00 | 2 | ODU model | 17MBtu/h |
| #00 | 3 | Operation mode | Heating |
| #00 | 4 | Operation status | ON |

Energy metering

| Energy metering | |
|---------------------|---|
| Heating energy data | > |
| Cooling energy data | > |
| DHW energy data | > |

Heating energy data

Energy data >


Historical data >

Energy data:

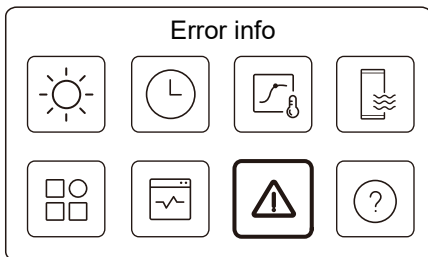
Heating energy: Hour

| | |
|---------------|--------------|
| Production | 29,00 MBtu/h |
| RE production | 22,00 MBtu/h |
| Consumption | 8,52 MBtu/h |
| COP | 3,40 |

Historical data:


| Heating energy | |
|--------------------------------------------------------------------------------------------------|------------|
| Total  2021 < > | |
| Production | 6000.00kWh |
| RE production | 3455.00kWh |
| Consumption | 1456.00kWh |
| COP | 4,12 |

5.6 Error Info




Access icon 7 in page C. Then, unit errors (if any) are displayed.

| Error info. | | | |
|-------------|----------|-------|------------|
| Unit | Code | Time | Date |
| #00 | E8 (70%) | 11:27 | 19-12-2022 |
| #02 | E0 (50%) | 15:30 | 19-12-2022 |
| #01 | E2 | 10:30 | 02-12-2022 |
| #00 | E8 (70%) | 11:27 | 25-10-2022 |

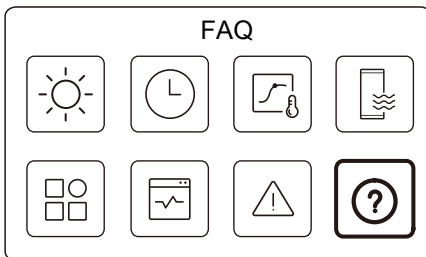
You can press  at each record to check the definition of the error code.

| Error info. | | | |
|------------------|------|-------|------------|
| Unit | Code | Time | Date |
| #01 | E1 | 11:27 | 19-12-2022 |
| Water flow fault | | | |

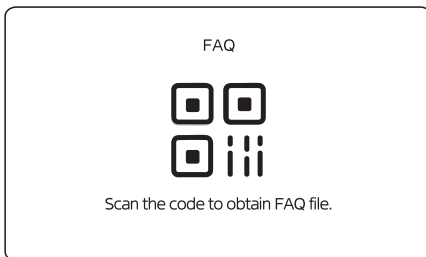
Clear Error info.

Press and hold  for 5 seconds to clear all the records in Error info.

5.7 FAQ



Access icon 8 in page C. Then, a QR code is displayed.



Scan the QR code for more details about the wired controller.

6 INSTALLATION CONFIGURATION

To be filled in by the installer.

| Code | Setting | | Unit |
|-----------------------|---------|--|---------|
| Date | | | |
| DHW setting | | | |
| DHW mode | | | / |
| Disinfect | | | / |
| DHW priority | | | / |
| Pump_D | | | / |
| DHW priority time set | | | / |
| dT5_ON | | | °C/°F |
| dT1S5 | | | °C/°F |
| T4DHWMAX | | | °C/°F |
| T4DHWMIN | | | °C/°F |
| T5S_Disinfect | | | °C/°F |
| t_DI_HIGHTEMP. | | | Minutes |
| t_DI_MAX | | | Minutes |
| t_DHWHP_Restrict | | | Minutes |
| t_DHWHP_MAX | | | Minutes |
| Pump_D timer | | | / |
| Pump_D running time | | | Minutes |
| Pump_D disinfect | | | / |

| Cooling setting | | | |
|-------------------|--|--|-------|
| Cooling mode | | | / |
| t_T4_Fresh_C | | | Hour |
| T4CMAX | | | °C/°F |
| T4CMIN | | | °C/°F |
| dT1SC | | | °C/°F |
| dTSC | | | °C/°F |
| Zone 1 C-emission | | | / |
| Zone 2 C-emission | | | / |
| T1SCLMIN | | | °C/°F |
| Heating setting | | | |
| Heating mode | | | / |
| t_T4_Fresh_H | | | Hours |
| T4HMAX | | | °C/°F |
| T4HMIN | | | °C/°F |
| dT1SH | | | °C/°F |
| dTSH | | | °C/°F |
| Zone 1 H-emission | | | / |
| Zone 2 H-emission | | | / |
| Force defrost | | | / |
| AUTO mode setting | | | |
| T4AUTOCMIN | | | °C/°F |
| T4AUTOHMAX | | | °C/°F |

| Temp. type setting | | | |
|-------------------------|--|--|----------------------|
| Water flow temp. | | | / |
| Room temp. | | | / |
| Double zone | | | / |
| Room thermostat setting | | | |
| Room thermostat | | | / |
| Other heat source | | | |
| IBH function | | | / |
| dT1_IBH_ON | | | °C/°F |
| t_IBH_Delay | | | Minutes |
| T4_IBH_ON | | | °C/°F |
| P_IBH1 | | | kW |
| P_IBH2 | | | kW |
| AHS function | | | / |
| AHS_Pump_I Control | | | / |
| dT1_AHS_ON | | | °C/°F |
| t_AHS_Delay | | | Minutes |
| T4_AHS_ON | | | °C/°F |
| EnSwitchPDC | | | / |
| GAS-COST | | | Price/m ³ |
| ELE-COST | | | Price/kWh |
| MAX-SETHEATER | | | °C/°F |

| | | | |
|----------------------|--|--|---------|
| MIN-SETHEATER | | | °C/°F |
| MAX-SIGHEATER | | | V |
| MIN-SIGHEATER | | | V |
| TBH function | | | / |
| dT5_TBH_OFF | | | °C/°F |
| t_TBH_Delay | | | Minutes |
| T4_TBH_ON | | | °C/°F |
| P_TBH | | | kW |
| Solar function | | | / |
| Solar control | | | / |
| Deltatol | | | °C/°F |
| Special function | | | |
| Preheating for floor | | | / |
| T1S | | | °C/°F |
| t_ARSTH | | | Hours |
| Floor drying up | | | / |
| t_Dryup | | | Days |
| t_Highpeak | | | Days |
| t_Drydown | | | Days |
| t_Drypeak | | | °C/°F |

| | | | |
|-----------------------------------|--|--|----------|
| Start time | | | h/min |
| Start date | | | dd/mm/yy |
| Auto restart | | | |
| Auto restart cooling/heating mode | | | / |
| Auto restart DHW mode | | | / |
| Power input limitation | | | |
| Power input limitation | | | / |
| Input definition | | | |
| M1 M2 | | | / |
| SMART GRID | | | / |
| T1T2 | | | / |
| TBT | | | / |
| P_X port | | | / |
| Cascade setting | | | |
| PER_START | | | % |
| TIME_ADJUST | | | Minutes |
| Address reset | | | / |
| HMI address setting | | | |
| HMI address for BMS | | | / |

| | | | |
|-----------------------|--|--|---------|
| Stop BIT | | | / |
| Common setting | | | |
| t_Delay pump | | | Minutes |
| t1_Antilock pump | | | Hours |
| t2_Antilock pump run | | | Seconds |
| t1_Antilock SV | | | Hours |
| t2_Antilock SV run | | | Seconds |
| Ta-adj. | | | °C/°F |
| F-PIPE LENGTH | | | / |
| Pump_I silent output | | | % |
| Energy metering | | | / |
| Glycol | | | / |
| Glycol concentration | | | % |
| Pump_I minimum output | | | % |

NOTE

- There are some items that are invisible if the function is disabled or unavailable.

7 OPERATING PARAMETERS

| No. | Code | Value | | |
|-----|---------------------------------|-------|--|--|
| | Date | | | |
| 1 | ODU model | | | |
| 2 | Operation mode | | | |
| 3 | Comp. frequency | | | |
| 4 | Fan 1 speed | | | |
| 5 | Fan 2 speed(if available) | | | |
| 6 | Expansion valve 1 | | | |
| 7 | Expansion valve 2(if available) | | | |
| 8 | Expansion valve 3(if available) | | | |
| 9 | Tp comp. discharge temp. | | | |
| 10 | Th comp. suction temp. | | | |
| 11 | T3 outdoor exchanger temp. | | | |
| 12 | TL distributor temp. | | | |
| 13 | T4 outdoor air temp. | | | |
| 14 | TF module temp. | | | |
| 15 | T9i temp(if available) | | | |
| 16 | T9o temp(if available) | | | |
| 17 | P1 comp. pressure | | | |
| 18 | P2 comp. pressure | | | |
| 19 | T2b plate F-in temp. | | | |
| 20 | T2 plate F-out temp. | | | |

| | | | | |
|----|---------------------------------|--|--|--|
| 21 | Tw_in plate water inlet temp. | | | |
| 22 | Tw_out plate water outlet temp. | | | |
| 23 | T1 leaving water temp. | | | |
| 24 | Tw2 circuit2 water temp. | | | |
| 25 | Ta room temp. | | | |
| 26 | T5 water tank temp. | | | |
| 27 | Tbt buffer tank temp. | | | |
| 28 | T1S_C1 CLI. curve temp. | | | |
| 29 | T1S2_C2 CLI. curve temp. | | | |
| 30 | Water pressure | | | |
| 31 | Water flow | | | |
| 32 | ODU current | | | |
| 33 | ODU voltage | | | |
| 34 | DC voltage | | | |
| 35 | DC current | | | |
| 36 | Pump_I PWM | | | |

NOTE

- There are some items that are invisible if the function is disabled or unavailable.
- This table only contains a part of parameters, please refer to the actual unit.

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IC

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Installers must ensure that 20cm separation distance will be maintained between the device and users.

Cet appareil est conforme aux limites d'exposition au rayonnement RF stipulées par la FCC et l'IC pour une utilisation dans un environnement non contrôlé. Les antennes utilisées pour cet émetteur doivent être installées et doivent fonctionner à au moins 20 cm de distance des utilisateurs et ne doivent pas être placées près d'autres antennes ou émetteurs ou fonctionner avec ceux-ci. Les installateurs doivent s'assurer qu'une distance de 20 cm sépare l'appareil des utilisateurs.

NOTE

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16110600001125 V.B

Hereby, GD Midea Heating & Ventilating Equipment Co., Ltd., declares that this model is in compliance with the essential requirements and other relevant provisions of RE Directive 2014/53/EU. A copy of the full DoC is attached.

技术要求

规格：120*120mm

材料：封面封底120g双胶纸，内页双胶纸80g、双面黑白印刷

更改说明（本页不打印）

| 版本升级 | 更改人 | 更改日期 | 更改主要内容 | 涉及更改页面 (印刷页码) |
|------|-----|----------|--------|------------------|
| A-B | 吴臻茂 | 24.05.09 | 见更改记录表 | 见更改记录表 |
| | | | | |
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