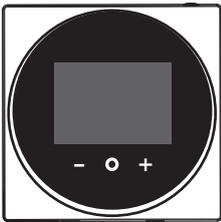


Installer and user reference guide
Human Comfort Interface



BRC1HHD(A)W7 ▲
BRC1HHD(A)K7 ▲
BRC1HHD(A)S7 ▲

▲ = , , A, B, C, ..., Z

Table of contents

1	General safety precautions	4
1.1	For the user	4
1.2	For the installer	5
2	About this document	7
For the user		9
3	User interface: Overview	10
3.1	Buttons	10
3.2	Home screen	10
3.3	Status icons.....	11
3.4	Status indicator.....	11
3.4.1	Behaviour	12
3.5	Basic parameters	12
4	Operation	13
4.1	Basic usage	13
4.1.1	Operation screens.....	13
4.1.2	Main menu.....	13
4.2	Space heating/cooling control	14
4.2.1	About space heating/cooling control.....	14
4.2.2	To turn ON/OFF space heating/cooling operation.....	16
4.2.3	To change the room temperature.....	16
4.2.4	To change the space operation mode.....	17
4.3	Domestic hot water control	17
4.3.1	About domestic hot water control.....	17
4.3.2	To turn ON/OFF domestic hot water operation	18
4.3.3	To change the domestic hot water temperature	18
4.3.4	Using DHW powerful operation	19
5	Maintenance and service	20
5.1	Overview: Maintenance and service.....	20
6	Troubleshooting	21
6.1	Overview: Troubleshooting.....	21
For the installer		22
7	About the box	23
7.1	To unpack the user interface	23
8	Preparation	24
8.1	Wiring requirements.....	24
8.1.1	To prepare the wiring for installation	24
9	Installation	25
9.1	Overview: Installation.....	25
9.2	Mounting the user interface	25
9.2.1	About mounting the user interface.....	25
9.2.2	To mount the user interface.....	25
9.3	Connecting the electrical wiring	26
9.3.1	Precautions when connecting the electrical wiring.....	26
9.3.2	To connect the electrical wiring	27
9.4	Closing the user interface	28
9.4.1	Precautions when closing the user interface	28
9.4.2	To close the user interface	28
9.5	Opening the user interface	28
9.5.1	Precautions when opening the user interface.....	28
9.5.2	To open the user interface	29
10	Starting up the system	30
11	User interface: Overview	31
11.1	Buttons	31

11.2	Home screen	31
11.3	Status icons.....	32
11.4	Status indicator.....	32
11.4.1	Behaviour	33
11.5	Basic parameters.....	33
12	Operation	34
12.1	Basic usage	34
12.1.1	Operation screens.....	34
12.1.2	Main menu.....	34
12.2	Space heating/cooling control	35
12.2.1	About space heating/cooling control	35
12.2.2	To turn ON/OFF space heating/cooling operation.....	37
12.2.3	To change the room temperature.....	37
12.2.4	To change the space operation mode.....	38
12.3	Domestic hot water control	38
12.3.1	About domestic hot water control	38
12.3.2	To turn ON/OFF domestic hot water operation	39
12.3.3	To change the domestic hot water temperature	39
12.3.4	Using DHW powerful operation	40
13	Configuration	41
13.1	Information.....	41
13.1.1	About the information menu	41
13.1.2	To see information.....	41
13.2	Settings menu.....	41
13.2.1	About the settings menu	41
13.2.2	Screen settings.....	42
13.2.3	Status indicator settings	43
13.2.4	Night mode	43
13.3	Software update	45
13.3.1	About software updates	45
13.3.2	Software update with app.....	45
13.3.3	Software update with updating tool	48
14	Maintenance	49
14.1	Maintenance safety precautions	49
14.2	To clean the user interface	49
15	Troubleshooting	50
15.1	Error codes of the indoor unit	50

1 General safety precautions

Please read these general safety precautions carefully before installing air conditioning equipment, and be sure to install the equipment correctly.

Failure to follow these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

Meaning of warnings and symbols

These safety messages are used to attract your attention. The meaning of each safety message is described below:

	WARNING Indicates a situation that could result in death or serious injury.
	CAUTION Indicates a situation that could result in minor or moderate injury.
	DANGER Indicates a situation that results in death or serious injury.
	DANGER: RISK OF EXPLOSION Indicates a situation that could result in explosion.
	INFORMATION Indicates useful tips or additional information.
	NOTICE Indicates a situation that could result in equipment or property damage.

1.1 For the user

General

	INFORMATION Also see the operation manual delivered with the outdoor and indoor unit.
	WARNING Do NOT play with the unit or its user interface. Accidental operation by a child may result in impairment of bodily functions and harm health.
	WARNING To prevent electric shocks or fire: <ul style="list-style-type: none">Do NOT operate the user interface with wet hands.Do NOT disassemble the user interface and touch interior parts. Contact your dealer.Do NOT modify or repair the user interface. Contact your dealer.Do NOT relocate or reinstall the user interface by yourself. Contact your dealer.

**WARNING**

Do NOT use flammable materials (e.g. hairspray or insecticide) near the user interface.

**NOTICE**

To clean the user interface, do NOT use organic solvents, such as paint thinner.
Possible consequence: damage, electrical shock, or fire.

1.2 For the installer

The precautions described in this document cover very important topics, follow them carefully.

**INFORMATION**

This user interface is an option and cannot be used standalone. It can ONLY be used in combination with a main user interface. Also see the installation and operation manual of the indoor and outdoor units.

**WARNING**

Improper installation or attachment of equipment or accessories could result in electrical shock, short-circuit, leaks, fire or other damage to the equipment. ONLY use accessories, optional equipment and spare parts made or approved by Daikin unless otherwise specified.

**WARNING**

All field wiring and components MUST be installed by a licensed electrician and MUST comply with the applicable legislation.

**NOTICE**

The user interface MUST be mounted indoors.

**NOTICE**

When the user interface is used as room thermostat, select an installation location where the average temperature in the room can be detected.

Do NOT install the user interface in the following places:

- In places where it is exposed to direct sunlight.
- In places where it is near a heat source.
- In places that are affected by outside air or air draught due to e.g. door opening/closing.
- In places where the display can easily get dirty.
- In places where there is NO easy access to the controls.
- In places with temperatures $<-10^{\circ}\text{C}$ and $>50^{\circ}\text{C}$.
- In places where the relative humidity is $>95\%$.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where it may be exposed to water, or in generally moist areas.

If you are NOT sure how to install or operate the unit, contact your dealer.

After finishing installation:

- Conduct a trial operation to check for faults.
- Explain the user how to operate the user interface.
- Ask the user to store the manual for future reference.



INFORMATION

Consult your dealer regarding the relocation and reinstallation of the user interface.

2 About this document

Target audience

Authorised installers + end users

Documentation set

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

- **Installation and operation manual:**
 - Installation instructions
 - Basic operation instructions
- **Installer and user reference guide:**
 - Extended installation and operation information
- **Declaration of conformity:**



INFORMATION: Declaration of conformity

Hereby, Daikin Europe N.V. declares that the radio equipment type BRC1H is in compliance with the Directive 2014/53/EU. The original declaration of conformity is available from the BRC1H product pages.

The documentation set is available from the BRC1H product pages.

- BRC1HHDW7: <https://qr.daikin.eu/?N=BRC1HHDW7>



- BRC1HHDK7: <https://qr.daikin.eu/?N=BRC1HHDK7>



- BRC1HHDS7: <https://qr.daikin.eu/?N=BRC1HHDS7>



INFORMATION: Madoka Assistant in-app documentation

The controller only allows for basic settings and operation. Advanced settings and operation are performed via the Madoka Assistant app. For more information, see the app and its in-app documentation. The Madoka Assistant app is available from Google Play and the Apple Store.

The original instructions are written in English. All other languages are translations of the original instructions.

Technical engineering data

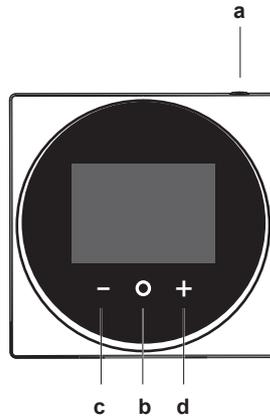
- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).

- The **full set** of the latest technical data is available on the Daikin Business Portal (authentication required).

For the user

3 User interface: Overview

3.1 Buttons



- a ON/OFF
 - When space heating/cooling and/or domestic hot water operation is OFF, press to turn it ON.
 - When space heating/cooling and/or domestic hot water operation is ON, press to turn it OFF.
- b CYCLE/ENTER/ACTIVATE /CONFIRM
 - From the home screen, short press to cycle through the operation screens.
 - From the home screen, long press to go to the main menu.
 - In the main menu, short press to enter one of the menus.
 - In any of the menus, activate/confirm a function, value, or setting.
- c ACTIVATE/CYCLE/ADJUST
 - On the room temperature/domestic hot water operation screen, activate the setpoint screen.
 - In the main menu, cycle left.
 - In any of the menus/operation screens, adjust a function, value, or setting (default: decrease).
- d ACTIVATE/CYCLE/ADJUST
 - On the room temperature/domestic hot water operation screen, activate the setpoint screen.
 - In the main menu, cycle right.
 - In any of the menus/operation screens, adjust a function, value, or setting (default: increase).

3.2 Home screen

The home screen displays the actual room temperature, and all kinds of information through status icons. After a period of operation inactivity the user interface will always revert to the home screen.



**INFORMATION**

The user interface is equipped with a power saving function that causes the screen to darken after a period of inactivity. To make the screen light up again, press one of the buttons.

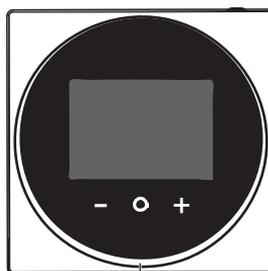
3.3 Status icons

Icon	Description
	System operation OFF. Indicates that space heating/cooling operation and/or domestic hot water operation are turned OFF.
	Bluetooth. ⁽¹⁾ Indicates that Bluetooth is activated, and that the user interface is ready to perform a software update.
	Heating operation. Indicates that the system is operating in Heating operation mode.
	Cooling operation. Indicates that the system is operating in Cooling operation mode.
	Powerful operation. Indicates that Powerful operation is active.
	Emergency operation. Indicates that Emergency operation is active.
	Malfunction. Indicates that a malfunction occurred.

**INFORMATION**

When the user interface signals **Emergency operation** or **Malfunction**, see the main user interface to see what is wrong.

3.4 Status indicator



a Status indicator

⁽¹⁾ The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and use of such marks by Daikin Europe N.V. is under license. Other trademarks and trade names are those of their respective owners.

3.4.1 Behaviour

Status indicator behaviour	Condition
Continuous blue	Operation ON <ul style="list-style-type: none"> The unit is in operation (i.e. actually heating up/cooling down the space, or producing domestic hot water)
OFF	Operation OFF <ul style="list-style-type: none"> The unit is in standby (i.e. turned ON, but not in operation) The unit is OFF
Blinking red	System error
Continuous red	System malfunction

 **INFORMATION**
 Status indicator behaviour is different when night mode is active. For more information, see "[13.2.4 Night mode](#)" [▶ 43].

 **INFORMATION**
 In case of system errors, the status indicator blinks red. As soon as you press any button, the status indicator will shift to "continuous red".

3.5 Basic parameters

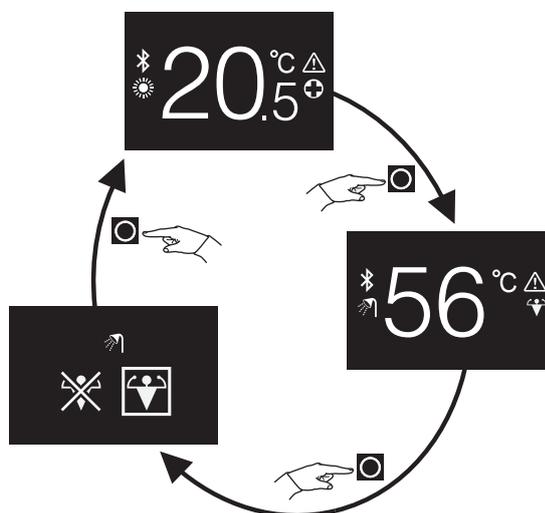
Parameter	Value
Frequency range	2402 MHz~2480 MHz
Radio protocol	BLE
Radio frequency channel	0~39
Modulation type	GFSK (Gaussian Frequency Shift Keying)
Effective isotropic radiated power	9.28 dBm

4 Operation

4.1 Basic usage

4.1.1 Operation screens

From the home screen, press  (shortly) to cycle through the operation screens.



Operation screen	Description
	Room temperature. See the actual room temperature, and control the (desired) room temperature.
	Domestic hot water temperature. See the actual domestic hot water temperature, and control the (desired) domestic hot water temperature (i.e. tank heating operation).
	Powerful operation. Activate or deactivate Powerful operation (i.e. fast tank heating operation).

4.1.2 Main menu

From the home screen, press  and keep it pressed until you enter the main menu. Use  and  to cycle through the menus. Press  again to enter one of the menus.

Menu	Description
	Information. See information about the user interface.
	Bluetooth. Make the user interface send out a Bluetooth signal to perform a software update.

Menu	Description
	Return. Return to the home screen.
	Settings. Make user interface settings.
	Space operation mode. Set the space operation mode.

4.2 Space heating/cooling control

4.2.1 About space heating/cooling control

Space heating/cooling control involves:

- Controlling the **room temperature**;
- Setting the **space operation mode**.

Room temperature

Room temperature control is performed from the home screen. The home screen displays the actual room temperature, as measured by a temperature sensor mounted in the user interface. For instructions on how to change the room temperature, see "[4.2.3 To change the room temperature](#)" [▶ 16].

The way you control the room temperature depends on the temperature control method that is set on the main user interface.

Main user interface temperature control method	Room temperature control
Room thermostat control	<p>Change the actual room temperature by increasing or decreasing the desired room temperature value.</p> 
Leaving water temperature control (fixed)	<p>Change the room temperature by increasing or decreasing the leaving water temperature (i.e. the temperature of the water that is sent to the heat emitters).</p> 

Main user interface temperature control method	Room temperature control
Leaving water temperature control (weather dependent)	Change the room temperature by lowering or raising the weather dependent curve, represented on the user interface by a shift value. 

**INFORMATION**

For more information on the temperature control methods, see the documentation of the indoor units.

**INFORMATION**

When the temperature sensor inside the user interface is broken, the system goes in error, and the operation screen displays "--" instead of the actual temperature.



Space operation mode

Space operation modes are selected from the space operation mode menu. The system can run in the following space operation modes:

Icon	Operation mode
	Heating. Heat up the space.
	Cooling. Cool down the space.
	Automatic. Automatic switching between heating and cooling, as required by the room temperature setpoint.

Depending on the type of indoor unit and/or settings made on the main user interface, it is possible that some operation modes are not available.

If...	Then...
The user interface is used in combination with heating-only indoor units	The space operation mode menu is absent from the main menu.
Automatic operation mode is made unavailable on the main user interface	You can only select heating or cooling operation mode. 

If...	Then...
None of the above conditions are true	You can select all operation modes. <div data-bbox="1094 248 1326 400" style="text-align: center;"> </div>

4.2.2 To turn ON/OFF space heating/cooling operation

Prerequisite: The user interface displays the home screen.



- 1 press the button.

Result: The user interface will turn ON or OFF space heating/cooling operation, depending on the previous state.

i

INFORMATION

To indicate operation is OFF, the user interface displays "OFF" on the home screen.

4.2.3 To change the room temperature

- 1 From the home screen, press or to activate the setpoint screen.



- 2 Use and to change the setpoint.



- 3 Press to confirm the setpoint.

Result: The user interface implements changes and returns to the home screen.

i

INFORMATION

When operation is OFF, the user interface does not allow setpoint changes.

i

INFORMATION

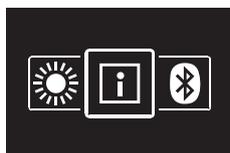
Depending on settings made on the main user interface, setpoint changes might not be possible. If this is the case, pressing or from the room temperature or domestic hot water operation screen is futile.

**INFORMATION**

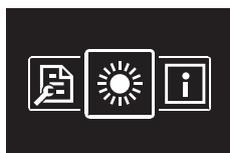
The way you control the room temperature depends on the temperature control method that is set on the main user interface. For more information, see ["4.2.1 About space heating/cooling control" \[p. 14\]](#).

4.2.4 To change the space operation mode

- 1 From the home screen, press and keep it pressed until you enter the main menu.



- 2 Use and to navigate to the space operation mode menu.



- 3 Press to enter the menu.



- 4 Use and to select a space operation mode, and press to activate it.

Result: The user interface implements changes and returns to the home screen.

4.3 Domestic hot water control

4.3.1 About domestic hot water control

Domestic hot water control involves:

- Controlling the **domestic hot water temperature**;
- Activating or deactivating **Powerful operation**.

Domestic hot water temperature

The indoor unit creates domestic hot water in the domestic hot water tank. The temperature of the domestic hot water can be increased or decreased.

**INFORMATION**

When the temperature sensor inside the domestic hot water tank is broken, the system goes in error, and the operation screen displays "--" instead of the actual water temperature.



Powerful operation

Powerful operation allows the domestic hot water to be heated by the backup heater or booster heater, depending on the indoor unit. Use this mode on days when there is more hot water usage than usual.

4.3.2 To turn ON/OFF domestic hot water operation

- 1 From the home screen, press  to go to the domestic hot water operation screen.



- 2 press the  button.

Result: The user interface will turn ON or OFF domestic hot water operation, depending on the previous state.



INFORMATION

To indicate operation is OFF, the user interface displays "OFF" on the home screen.

OFF

4.3.3 To change the domestic hot water temperature

- 1 From the home screen, press  to go to the domestic hot water operation screen.



- 2 Press  or  to activate the setpoint screen.



- 3 Use  and  to change the setpoint.



- 4 Press  to confirm the setpoint.

Result: The user interface implements changes and returns to the domestic hot water operation screen.



INFORMATION

When operation is OFF, the user interface does not allow setpoint changes.

**INFORMATION**

Depending on settings made on the main user interface, setpoint changes might not be possible. If this is the case, pressing **+** or **-** from the room temperature or domestic hot water operation screen is futile.

4.3.4 Using DHW powerful operation

- 1 From the home screen, press **OK** to go to the Powerful operation screen.



- 2 To activate Powerful operation, use **+** and **-** to select "activate".



- 3 To deactivate Powerful operation, use **+** and **-** to select "deactivate".



- 4 Press **OK** to confirm your selection.

Result: The user interface implements changes and returns to the home screen.

**INFORMATION**

To indicate Powerful operation is active, the user interface displays the Powerful icon on the domestic hot water operation screen.

**INFORMATION**

For more information on Powerful operation, see the installer reference guide and the user reference guide of the units.

5 Maintenance and service

5.1 Overview: Maintenance and service

When the user interface needs to be maintained or serviced, consult your dealer.

6 Troubleshooting

6.1 Overview: Troubleshooting

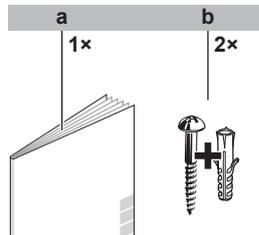
When the system is in error, the user interface displays  on the home screen. Simultaneously, the main user interface displays an error code. Check the main user interface to see the error code. For a list of error codes and what they mean, see the documentation of the indoor unit. To have the error solved, consult your dealer.

For the installer

7 About the box

7.1 To unpack the user interface

- 1 Open the box.
- 2 Separate the accessories.



- a** Installation and operation manual
b Wood screws + wall plugs (Ø4.0×30)

8 Preparation

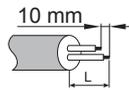
8.1 Wiring requirements

All wiring must comply with the following requirements:

Wire specification	Value
Type	Sheathed vinyl cord or cable (2 wires)
Section	0.75~1.25 mm ²
Maximum length	500 m

8.1.1 To prepare the wiring for installation

- 1 Peel the sheath of the part of the cable that needs to pass through the inside of the rear casing (L), according to the figure and the table.
- 2 Keep a 10 mm distance between the length of the 2 wires.



Wiring outlet	L
Top	±150 mm
Left	±120 mm
Bottom	±100 mm
Rear	No requirements

9 Installation



NOTICE

During the installation of the controller, keep the installation environment dust-free in order to avoid any particles entering the PCB side of the controller.

9.1 Overview: Installation

The installation of the user interface typically consists of the following stages:

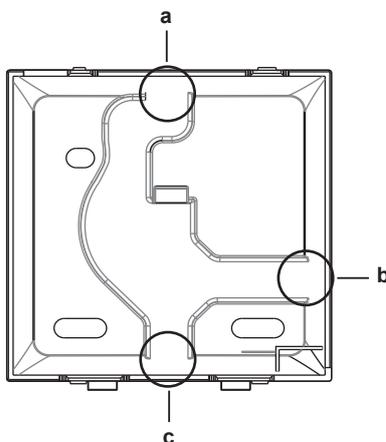
- 1 Determining how you want to route the electrical wiring, and nipping away a piece of the rear casing accordingly.
- 2 Mounting the rear casing to the wall.
- 3 Connecting the electrical wiring.
- 4 Closing the user interface.

9.2 Mounting the user interface

9.2.1 About mounting the user interface

Before you can mount the user interface, you have to determine the wiring routing, and accordingly, remove a piece of the user interface's rear casing.

The wiring can be routed from the top, the rear, the left, or the bottom. Remove a piece of the rear casing according to the illustration:



- a Wiring from the top
- b Wiring from the left
- c Wiring from the bottom

In case you are routing the wiring from the rear, you don't have to remove anything.

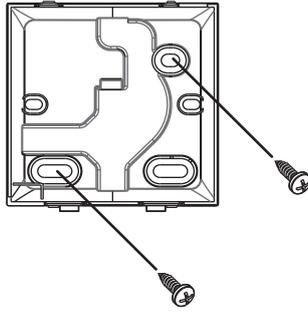


INFORMATION

When routing the wiring from the top or from the rear, insert the wiring through the knockout hole before mounting the rear casing to the wall.

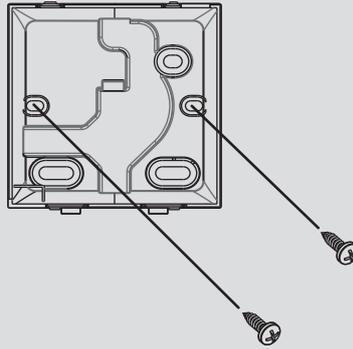
9.2.2 To mount the user interface

- 1 Take the screws and plugs from the accessory bag.



INFORMATION

If required (e.g. when mounting to a flush-mounted electrical installation box), mount the rear casing by way of the knockout holes.



NOTICE

When mounting the rear casing to a flush-mounted electrical installation box inside a wall, make sure that that wall is completely flat.



NOTICE

Be careful not to deform the rear casing by overtightening the mounting screws.

9.3 Connecting the electrical wiring

9.3.1 Precautions when connecting the electrical wiring



INFORMATION

Also read the precautions and requirements in the following chapters:

- General safety precautions
- Preparation



WARNING

All field wiring and components **MUST** be installed by a licensed electrician and **MUST** comply with the applicable legislation.



CAUTION

When connecting the user interface to the indoor unit, make sure the indoor unit switchbox and transmission wiring are not connected.



NOTICE

The wiring for connection is **NOT** included.

**NOTICE**

When wiring, run the wiring away from the power supply wiring in order to avoid receiving electric noise (external noise).

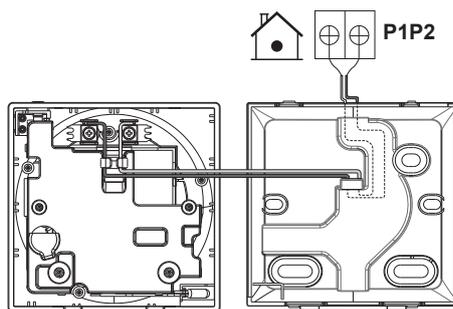
**INFORMATION**

P1 and P2 have no polarity.

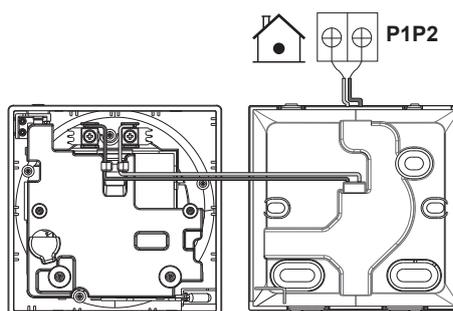
9.3.2 To connect the electrical wiring

Connect user interface terminals P1/P2 to indoor unit terminals P1/P2.

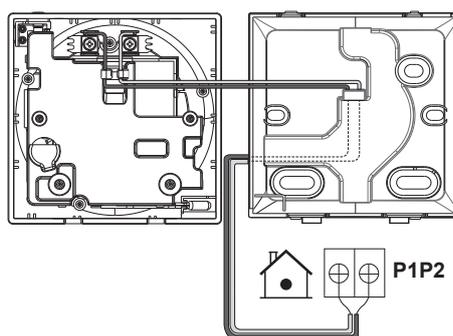
From the top



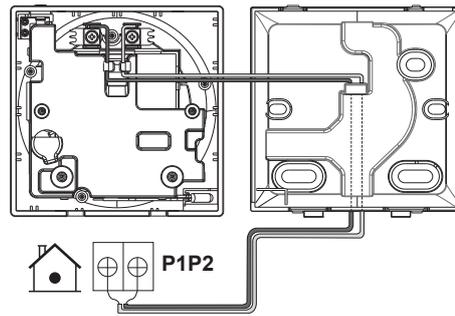
From the rear



From the left



From the bottom



9.4 Closing the user interface

9.4.1 Precautions when closing the user interface



CAUTION

NEVER touch the internal parts of the user interface.



CAUTION

When closing the user interface, be careful not to pinch the wiring.

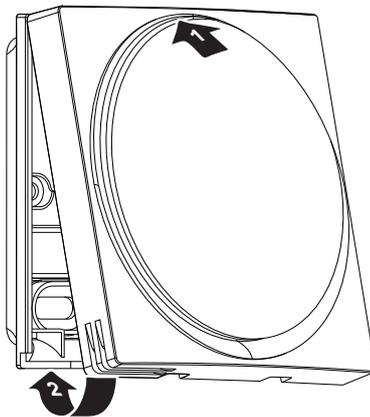


NOTICE

To prevent damage, make sure the front of the user interface is clicked into the rear casing securely.

9.4.2 To close the user interface

- 1 Click the front of the user interface into the rear casing.



- 2 When the installation site is dust-free, peel off the protective seal.

9.5 Opening the user interface

9.5.1 Precautions when opening the user interface



NOTICE

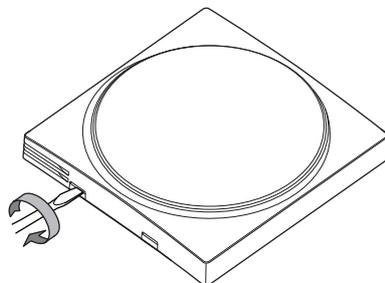
The user interface PCB is mounted into the front casing. When opening the user interface, be careful not to damage the PCB.

**NOTICE**

When the front and rear casing are separated, make sure the PCB does not come into contact with dust or moisture.

9.5.2 To open the user interface

- 1 Insert a flat-head screwdriver in one of the bottom closing mechanisms and slowly twist it.



10 Starting up the system

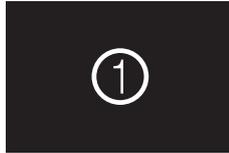
The user interface gets its power from the indoor unit. It will start up as soon as it is connected. For the user interface to be operable, make sure the indoor unit is powered on.

Before the user interface is ready for operation, it will synchronise with the main user interface and go through the following start-up sequence:

- 1 The user interface boots up.



- 2 The user interface synchronises with the main user interface.

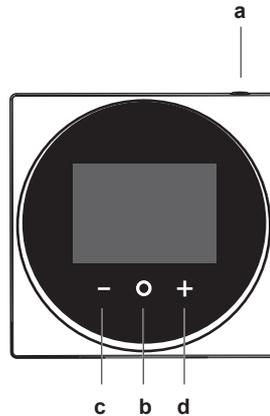


- 3 The user interface is ready for operation.



11 User interface: Overview

11.1 Buttons



- a** ON/OFF
 - When space heating/cooling and/or domestic hot water operation is OFF, press to turn it ON.
 - When space heating/cooling and/or domestic hot water operation is ON, press to turn it OFF.
- b** CYCLE/ENTER/ACTIVATE /CONFIRM
 - From the home screen, short press to cycle through the operation screens.
 - From the home screen, long press to go to the main menu.
 - In the main menu, short press to enter one of the menus.
 - In any of the menus, activate/confirm a function, value, or setting.
- c** ACTIVATE/CYCLE/ADJUST
 - On the room temperature/domestic hot water operation screen, activate the setpoint screen.
 - In the main menu, cycle left.
 - In any of the menus/operation screens, adjust a function, value, or setting (default: decrease).
- d** ACTIVATE/CYCLE/ADJUST
 - On the room temperature/domestic hot water operation screen, activate the setpoint screen.
 - In the main menu, cycle right.
 - In any of the menus/operation screens, adjust a function, value, or setting (default: increase).

11.2 Home screen

The home screen displays the actual room temperature, and all kinds of information through status icons. After a period of operation inactivity the user interface will always revert to the home screen.





INFORMATION

The user interface is equipped with a power saving function that causes the screen to darken after a period of inactivity. To make the screen light up again, press one of the buttons.

11.3 Status icons

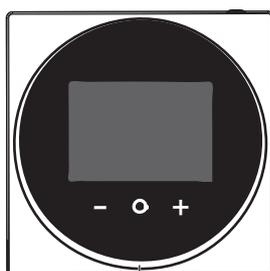
Icon	Description
	System operation OFF. Indicates that space heating/cooling operation and/or domestic hot water operation are turned OFF.
	Bluetooth.⁽¹⁾ Indicates that Bluetooth is activated, and that the user interface is ready to perform a software update.
	Heating operation. Indicates that the system is operating in Heating operation mode.
	Cooling operation. Indicates that the system is operating in Cooling operation mode.
	Powerful operation. Indicates that Powerful operation is active.
	Emergency operation. Indicates that Emergency operation is active.
	Malfunction. Indicates that a malfunction occurred.



INFORMATION

When the user interface signals **Emergency operation** or **Malfunction**, see the main user interface to see what is wrong.

11.4 Status indicator



a

a Status indicator

⁽¹⁾ The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and use of such marks by Daikin Europe N.V. is under license. Other trademarks and trade names are those of their respective owners.

11.4.1 Behaviour

Status indicator behaviour	Condition
Continuous blue	Operation ON <ul style="list-style-type: none"> The unit is in operation (i.e. actually heating up/cooling down the space, or producing domestic hot water)
OFF	Operation OFF <ul style="list-style-type: none"> The unit is in standby (i.e. turned ON, but not in operation) The unit is OFF
Blinking red	System error
Continuous red	System malfunction

**INFORMATION**

Status indicator behaviour is different when night mode is active. For more information, see "[13.2.4 Night mode](#)" [▶ 43].

**INFORMATION**

In case of system errors, the status indicator blinks red. As soon as you press any button, the status indicator will shift to "continuous red".

11.5 Basic parameters

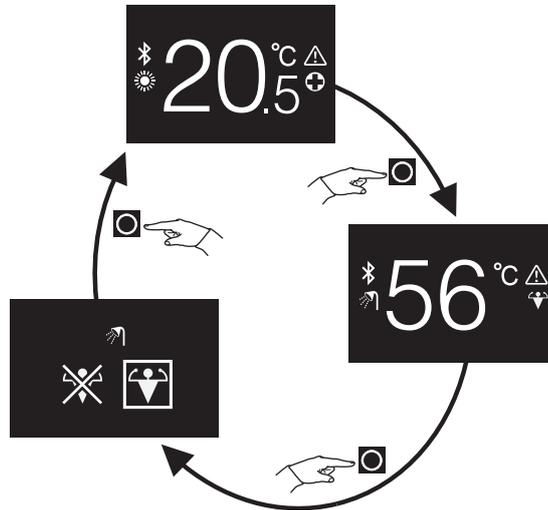
Parameter	Value
Frequency range	2402 MHz~2480 MHz
Radio protocol	BLE
Radio frequency channel	0~39
Modulation type	GFSK (Gaussian Frequency Shift Keying)
Effective isotropic radiated power	9.28 dBm

12 Operation

12.1 Basic usage

12.1.1 Operation screens

From the home screen, press  (shortly) to cycle through the operation screens.



Operation screen	Description
	Room temperature. See the actual room temperature, and control the (desired) room temperature.
	Domestic hot water temperature. See the actual domestic hot water temperature, and control the (desired) domestic hot water temperature (i.e. tank heating operation).
	Powerful operation. Activate or deactivate Powerful operation (i.e. fast tank heating operation).

12.1.2 Main menu

From the home screen, press  and keep it pressed until you enter the main menu. Use  and  to cycle through the menus. Press  again to enter one of the menus.

Menu	Description
	Information. See information about the user interface.
	Bluetooth. Make the user interface send out a Bluetooth signal to perform a software update.

Menu	Description
	Return. Return to the home screen.
	Settings. Make user interface settings.
	Space operation mode. Set the space operation mode.

12.2 Space heating/cooling control

12.2.1 About space heating/cooling control

Space heating/cooling control involves:

- Controlling the **room temperature**;
- Setting the **space operation mode**.

Room temperature

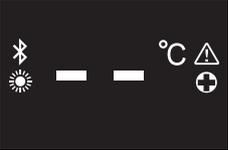
Room temperature control is performed from the home screen. The home screen displays the actual room temperature, as measured by a temperature sensor mounted in the user interface. For instructions on how to change the room temperature, see "[12.2.3 To change the room temperature](#)" [▶ 37].

The way you control the room temperature depends on the temperature control method that is set on the main user interface.

Main user interface temperature control method	Room temperature control
Room thermostat control	Change the actual room temperature by increasing or decreasing the desired room temperature value. 
Leaving water temperature control (fixed)	Change the room temperature by increasing or decreasing the leaving water temperature (i.e. the temperature of the water that is sent to the heat emitters). 

Main user interface temperature control method	Room temperature control
Leaving water temperature control (weather dependent)	Change the room temperature by lowering or raising the weather dependent curve, represented on the user interface by a shift value. 

i **INFORMATION**
For more information on the temperature control methods, see the documentation of the indoor units.

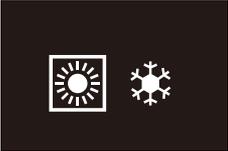
i **INFORMATION**
When the temperature sensor inside the user interface is broken, the system goes in error, and the operation screen displays "--" instead of the actual temperature.


Space operation mode

Space operation modes are selected from the space operation mode menu. The system can run in the following space operation modes:

Icon	Operation mode
	Heating. Heat up the space.
	Cooling. Cool down the space.
	Automatic. Automatic switching between heating and cooling, as required by the room temperature setpoint.

Depending on the type of indoor unit and/or settings made on the main user interface, it is possible that some operation modes are not available.

If...	Then...
The user interface is used in combination with heating-only indoor units	The space operation mode menu is absent from the main menu.
Automatic operation mode is made unavailable on the main user interface	You can only select heating or cooling operation mode. 

If...	Then...
None of the above conditions are true	You can select all operation modes. 

12.2.2 To turn ON/OFF space heating/cooling operation

Prerequisite: The user interface displays the home screen.



- 1 press the  button.

Result: The user interface will turn ON or OFF space heating/cooling operation, depending on the previous state.



INFORMATION

To indicate operation is OFF, the user interface displays "OFF" on the home screen.

OFF

12.2.3 To change the room temperature

- 1 From the home screen, press  or  to activate the setpoint screen.



- 2 Use  and  to change the setpoint.



- 3 Press  to confirm the setpoint.

Result: The user interface implements changes and returns to the home screen.



INFORMATION

When operation is OFF, the user interface does not allow setpoint changes.



INFORMATION

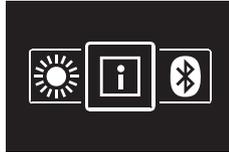
Depending on settings made on the main user interface, setpoint changes might not be possible. If this is the case, pressing  or  from the room temperature or domestic hot water operation screen is futile.

**INFORMATION**

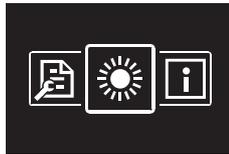
The way you control the room temperature depends on the temperature control method that is set on the main user interface. For more information, see "[12.2.1 About space heating/cooling control](#)" [▶ 35].

12.2.4 To change the space operation mode

- 1 From the home screen, press and keep it pressed until you enter the main menu.



- 2 Use and to navigate to the space operation mode menu.



- 3 Press to enter the menu.



- 4 Use and to select a space operation mode, and press to activate it.

Result: The user interface implements changes and returns to the home screen.

12.3 Domestic hot water control

12.3.1 About domestic hot water control

Domestic hot water control involves:

- Controlling the **domestic hot water temperature**;
- Activating or deactivating **Powerful operation**.

Domestic hot water temperature

The indoor unit creates domestic hot water in the domestic hot water tank. The temperature of the domestic hot water can be increased or decreased.

**INFORMATION**

When the temperature sensor inside the domestic hot water tank is broken, the system goes in error, and the operation screen displays "--" instead of the actual water temperature.



Powerful operation

Powerful operation allows the domestic hot water to be heated by the backup heater or booster heater, depending on the indoor unit. Use this mode on days when there is more hot water usage than usual.

12.3.2 To turn ON/OFF domestic hot water operation

- 1 From the home screen, press  to go to the domestic hot water operation screen.



- 2 press the  button.

Result: The user interface will turn ON or OFF domestic hot water operation, depending on the previous state.



INFORMATION

To indicate operation is OFF, the user interface displays "OFF" on the home screen.

OFF

12.3.3 To change the domestic hot water temperature

- 1 From the home screen, press  to go to the domestic hot water operation screen.



- 2 Press  or  to activate the setpoint screen.



- 3 Use  and  to change the setpoint.



- 4 Press  to confirm the setpoint.

Result: The user interface implements changes and returns to the domestic hot water operation screen.



INFORMATION

When operation is OFF, the user interface does not allow setpoint changes.

**INFORMATION**

Depending on settings made on the main user interface, setpoint changes might not be possible. If this is the case, pressing **+** or **-** from the room temperature or domestic hot water operation screen is futile.

12.3.4 Using DHW powerful operation

- 1 From the home screen, press  to go to the Powerful operation screen.



- 2 To activate Powerful operation, use **+** and **-** to select "activate".



- 3 To deactivate Powerful operation, use **+** and **-** to select "deactivate".



- 4 Press  to confirm your selection.

Result: The user interface implements changes and returns to the home screen.

**INFORMATION**

To indicate Powerful operation is active, the user interface displays the Powerful icon on the domestic hot water operation screen.

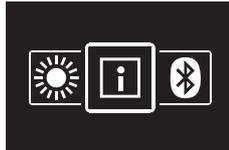
**INFORMATION**

For more information on Powerful operation, see the installer reference guide and the user reference guide of the units.

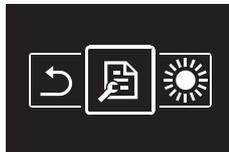
Category	Icon	Settings
Status indicator		Set intensity
Night mode		Activate or deactivate

To enter the settings menu

- 1 From the home screen, press  and keep it pressed until you enter the main menu.

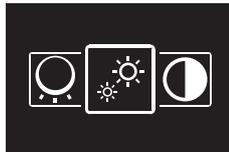


- 2 Use  and  to navigate to the settings menu.



- 3 Press  to enter the menu.

Result: You are in the settings menu.

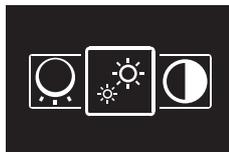


13.2.2 Screen settings

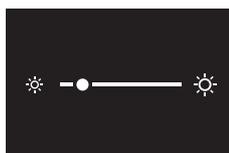
To set screen brightness

Prerequisite: You are in the settings menu.

- 1 Navigate to the screen brightness menu.



- 2 Press  to enter the menu.



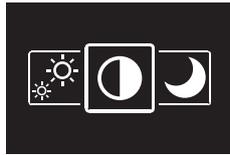
- 3 Use  and  to adjust screen brightness.
- 4 Press  to confirm.

Result: The user interface implements changes and returns to the home screen.

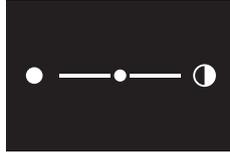
To set screen contrast

Prerequisite: You are in the settings menu.

- 1 Navigate to the screen contrast menu.



- 2 Press  to enter the menu.



- 3 Use  and  to adjust screen contrast.
- 4 Press  to confirm.

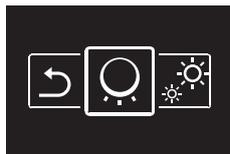
Result: The user interface implements changes and returns to the home screen.

13.2.3 Status indicator settings

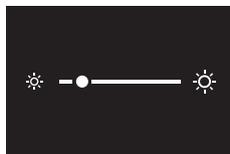
To set status indicator intensity

Prerequisite: You are in the settings menu.

- 1 Navigate to the status indicator intensity menu.



- 2 Press  to enter the menu.



- 3 Use  and  to adjust status indicator intensity.
- 4 Press  to confirm.

Result: The user interface implements changes and returns to the home screen.

13.2.4 Night mode

About night mode

Activate night mode to have the user interface operate with altered screen and status indicator behaviour, so as not to bother the user at night.

Condition	Night mode behaviour
Screen	
Expiration of inactivity timer	OFF
Status indicator	
Error	Blinking, red. After touching any button, or after a timer expires: OFF.
Malfunction	OFF
Operation ON	OFF

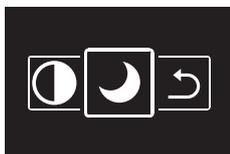
Condition	Night mode behaviour
Operation OFF	OFF

To activate night mode

Prerequisite: You are in the settings menu.

Prerequisite: The user interface is not in night mode.

- 1 Navigate to the night mode menu.



- 2 Press to enter the menu.



- 3 Use and to select "activate".



- 4 Press to activate night mode.

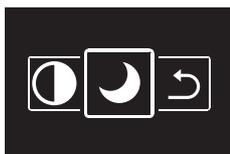
Result: The user interface enters night mode and returns to the home screen.

To deactivate night mode

Prerequisite: You are in the settings menu.

Prerequisite: The user interface is in night mode.

- 1 Navigate to the night mode menu.



- 2 Press to enter the menu.



- 3 Use and to select "deactivate".



- 4 Press to deactivate night mode.

Result: The user interface leaves night mode and returns to the home screen.

13.3 Software update

13.3.1 About software updates

It is strongly recommended that the user interface has the latest software version. There are two ways to perform a software update.

Software update	Instructions
Madoka Assistant app	"13.3.2 Software update with app" [▶ 45]
Updating tool	"13.3.3 Software update with updating tool" [▶ 48]

13.3.2 Software update with app

To update the software with the app:

- 1 Activate Bluetooth on the user interface, according to the instructions set out in ["To make a Bluetooth connection" \[▶ 45\]](#).
- 2 In the home screen of the app, tap the tile of the user interface of which you want to update the software, and follow the instruction from there.



INFORMATION

The Madoka Assistant app is available from Google Play and the App Store.



INFORMATION

When it is the first time you connect a user interface to your device, app and user interface initiate a numeric comparison procedure. To successfully connect the user interface to the app, follow the procedure.

After each successful connection to a mobile device, the user interface automatically stores information about that mobile device, this to facilitate future reconnection. This information is called "bonding information".

When no bonding information is stored, (i.e. at first connection, or after it got manually removed), you will have to go through the numeric comparison procedure.

When bonding information is stored, you can connect the user interface to the mobile device just by making the user interface send out a Bluetooth signal and tapping the tile of the user interface in the app. The user interface will then connect to the mobile device automatically.

Bonding information gets stored automatically, and can be removed manually. Remove the bonding information from the user interface when you want to update the software from another mobile device than the one the user interface contains information about.



INFORMATION

To connect the user interface to the mobile device with Bluetooth, and to perform a software update, it is required that you stay close to the user interface (i.e. within Bluetooth range).

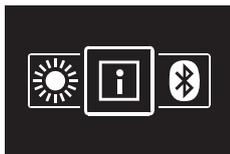
To make a Bluetooth connection

Prerequisite: You have a mobile device on which the Madoka Assistant app is installed and running.

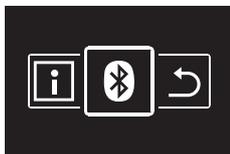
Prerequisite: On that mobile device, Bluetooth is turned ON.

Prerequisite: You are close to the user interface.

- 1 From the home screen, press  and keep it pressed until you enter the main menu.



- 2 Use  and  to navigate to the Bluetooth menu.



- 3 Press  to enter the menu.



- 4 Press  to activate  and make the user interface send out a Bluetooth signal.

Result:

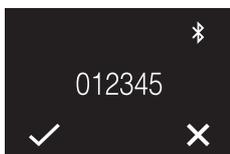


Numeric comparison

- 5 In the Madoka Assistant app, tap the tile of the user interface of which you want to update the software.

Result: If it is the first time you make a connection, or when bonding information was removed, the operating system of your mobile device sends out a pairing request, including a numeric string.

Result: The user interface displays a numeric string, for comparison with that of the pairing request.



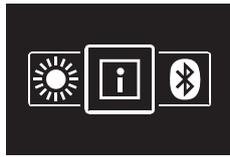
- 6 In the app, accept the pairing request.
- 7 On the user interface, press  to confirm the numeric string.

Result: The user interface and the mobile device are connected via Bluetooth.

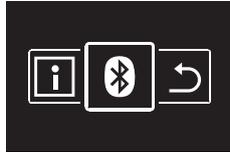
- 8 To update the software, follow the instructions from the app.

To terminate the Bluetooth connection

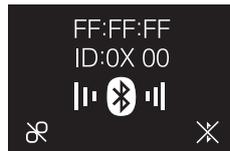
- 1 From the home screen, press  and keep it pressed until you enter the main menu.



- Use **-** and **+** to navigate to the Bluetooth menu.



- Press **○** to enter the menu.



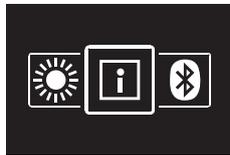
- Press **+** to stop the user interface from sending out a Bluetooth signal.

Result:

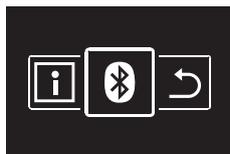


To remove bonding information

- From the home screen, press **○** and keep it pressed until you enter the main menu.



- Use **-** and **+** to navigate to the Bluetooth menu.



- Press **○** to enter the menu.



- Press **-** to remove the bonding information from the user interface.

Result:



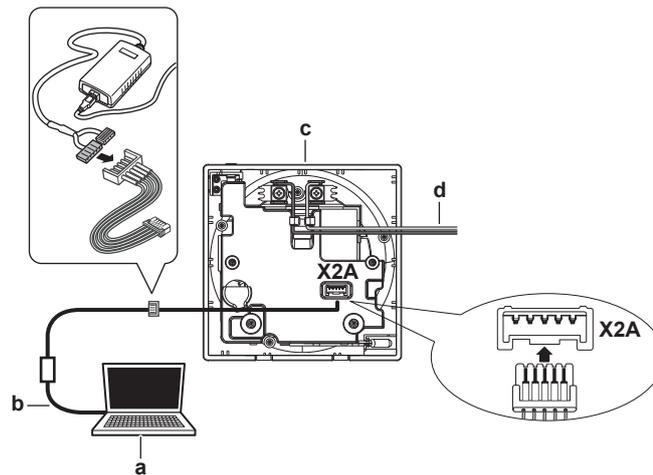
13.3.3 Software update with updating tool

To update the software with Updater

Prerequisite: PC with Updater (contact your dealer for the correct version of the software)

Prerequisite: PC USB cable EKPCAB4 or higher (includes a USB cable and additional connection cables)

- 1 Make sure that the indoor unit is powered OFF.
- 2 Connect the user interface to the PC.



- a PC with Updater
- b USB cable
- c User interface PCB
- d To indoor unit

- 3 Power ON the indoor unit.
- 4 Open Updater.
- 5 In Updater, go to "Update procedure".
- 6 Type in the model name of the user interface.
- 7 Select the desired update procedure.
- 8 Follow the on-screen instructions.

14 Maintenance

14.1 Maintenance safety precautions

**WARNING**

Before carrying out any maintenance or repair activities, stop system operation with the user interface, and turn off the power supply circuit breaker. **Possible consequence:** electrical shock or injury.

**NOTICE**

To clean the user interface, do NOT use organic solvents, such as paint thinner. **Possible consequence:** damage, electrical shock, or fire.

**WARNING**

Do NOT wash the user interface. **Possible consequence:** electric leakage, electrical shock, or fire.

**INFORMATION**

When the dirt on the surface cannot be removed easily while cleaning the user interface, soak the cloth in neutral detergent diluted with water, squeeze the cloth tightly, and clean the surface. Afterwards, wipe dry with a dry cloth.

14.2 To clean the user interface

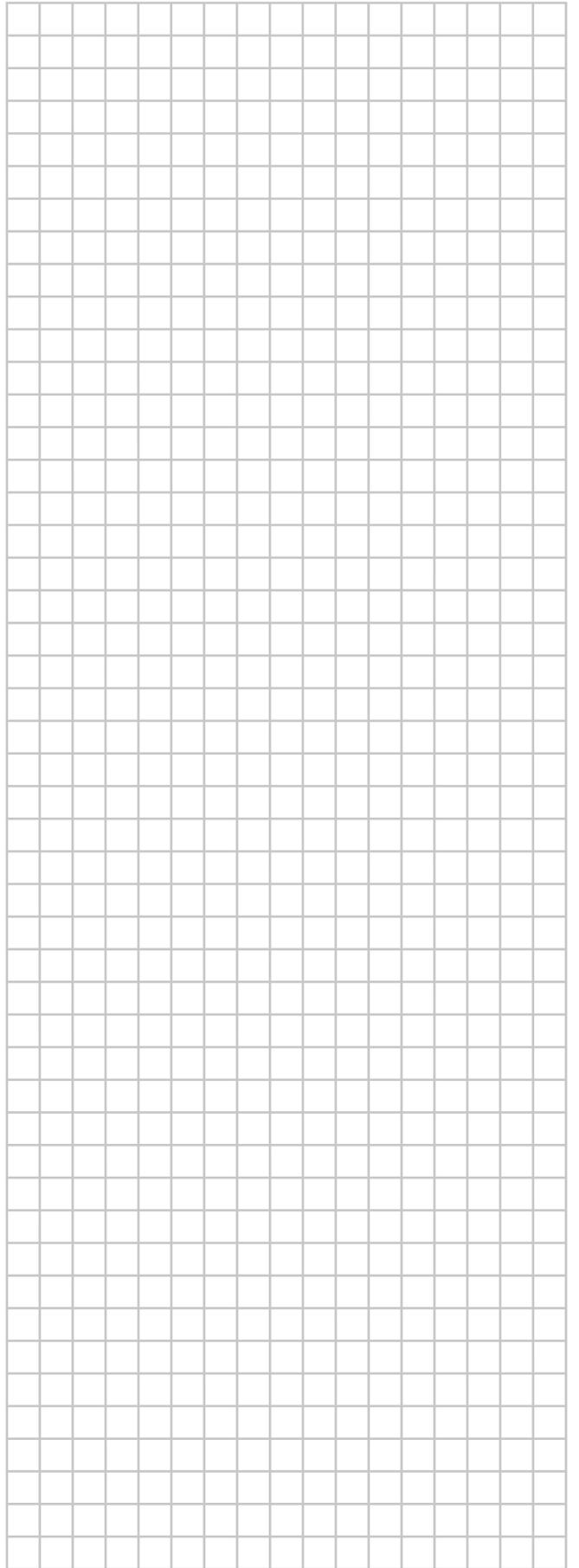
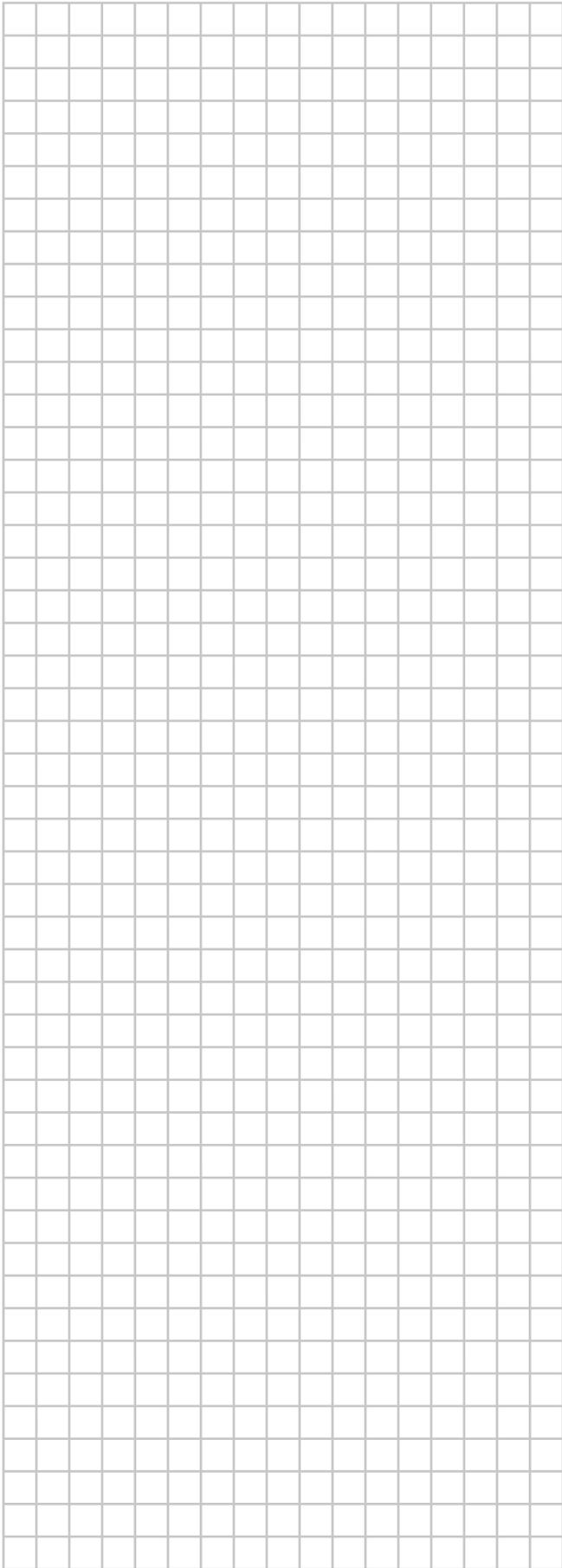
- 1 Wipe the screen and other surface parts of the user interface with a dry cloth.

15 Troubleshooting

15.1 Error codes of the indoor unit

When the indoor unit is in error, the user interface displays  on the home screen. Simultaneously, the main user interface displays an error code. Check the main user interface to see the error code. For a list of error codes and what they mean, see the documentation of the indoor unit.

Solve the cause of the error.



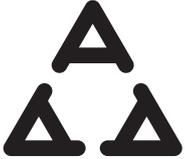
ERC



4P813199-1 A 00000001



UA. TR. 028



I005 18

Maximum Voltage: DC 17.6 V
Power Consumption: Max 1.94 VA

Copyright 2025 Daikin

DAIKIN EUROPE N.V.

Zandvoordestraat 300, B-8400 Oostende, Belgium

4P813199-1A 2026.01