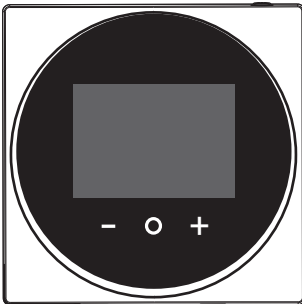# DAIKIN

Installer and user reference guide

Human Comfort Interface

BRC1HHDAW
BRC1HHDAS
BRC1HHDAK

Installer and user reference guide
Human Comfort Interface

English

Table of contents

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.

ℹ **INFORMATION**

Indicates useful tips or additional information.

NOTICE

Indicates a situation that could result in equipment or property damage.

1.1 For the user

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:

- 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, electric 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.

NOTICE

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

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 that are exposed to direct sunlight.
- In places that are 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°C and >50°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
  - Format: Paper (in the box of the user interface)
- **Installer and user reference guide:**
  - Extended installation and operation information
  - Format: Digital files on http://www.daikineurope.com/support-and-manuals/product-information/
- **Declaration of conformity:**
  - Hereby, Daikin Europe N.V. declares that the radio equipment type BRC1HHDA is in compliance with the Directive 2014/53/EU. The original declaration of conformity is available from the

BRC1HHDA product pages https://qr.daikin.eu/?N=BRC1HHDW, https://qr.daikin.eu/?N=BRC1HHDS, and https://qr.daikin.eu/?N=BRC1HHDK.

▪ Format: Digital file from the product pages

(BRC1HHDAW)

(BRC1HHDAS)

(BRC1HHDAK)

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.
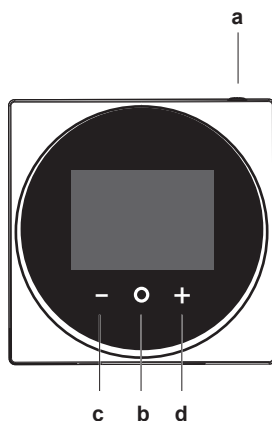
Technical engineering data

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

▪ The **full set** of latest technical data is available on the Daikin extranet (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.

ℹ **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

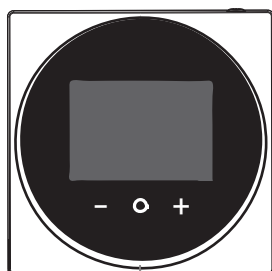| Icon	Description
OFF	**System operation OFF.** Indicates that space heating/cooling operation and/or domestic hot water operation are turned OFF.
✳	**Bluetooth**.[1] Indicates that Bluetooth is activated, and that the user interface is ready to perform a software update.
☀	**Heating operation**. Indicates 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.

[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.

Icon	Description
	Emergency operation. Indicates that Emergency operation is active.
	Malfunction. Indicates that a malfunction occurred.

ℹ️ **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

a Status indicator

Status indicator behaviour	Condition
Continuous blue	**Operation ON** ▪ The unit is in operation (i.e. actually heating up/cooling down the space, or producing domestic hot water)
OFF	**Operation OFF** ▪ 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

ℹ️ **INFORMATION**

Status indicator behaviour is different when night mode is active. For more information, see "13.2.4 Night mode" on page 16.
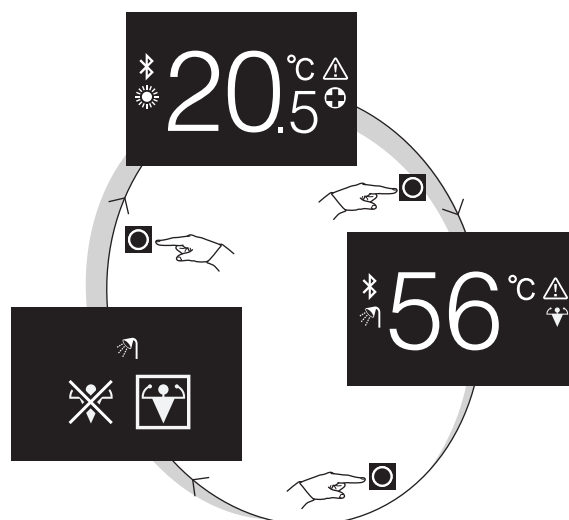
ℹ️ **INFORMATION**

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".

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
ℹ️	**Information.** See information about the user interface.
✳️	**Bluetooth.** Make the user interface send out a Bluetooth signal to perform a software update.
↩️	**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

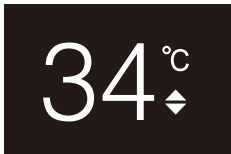### 4.2.1 About space heating/cooling control

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" on page 6.

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

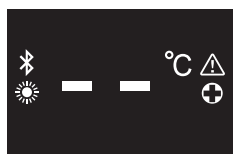| Main user interface temperature control method	Room temperature control
Room thermostat control	Change the actual room temperature by increasing or decreasing the desired room temperature value. 20.5℃ ⬍
Leaving water temperature control (fixed)	Change the room temperature by increasing or decreasing the leaving water temperature (i.e. the temperature of the water that is sent to the heat emitters). 34℃ ⬍
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. +6 ⬍

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.
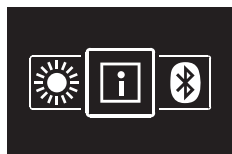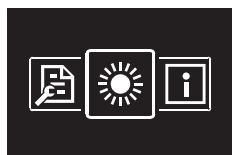
Space operation mode

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.
[A]	**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. ☀ ❄
None of the above conditions are true	You can select all operation modes. [A] ☀ ❄

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

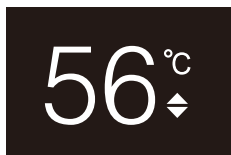To indicate operation is OFF, the user interface displays "OFF" on the home screen.

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.

> ℹ️ **INFORMATION**
>
> When operation is OFF, the user interface does not allow setpoint changes.

> ℹ️ **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.

> ℹ️ **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" on page 6.

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.

> ℹ️ **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.

> ℹ️ **INFORMATION**
>
> To indicate operation is OFF, the user interface displays "OFF" on the home screen.
>
>

4.3.3 To change the domestic hot water temperature

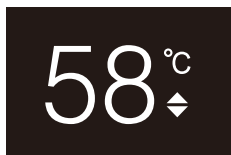**1** From the home screen, press 🔘 to go to the domestic hot water operation screen.

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.
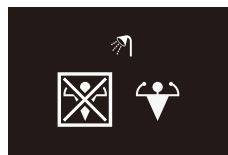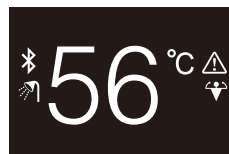
> **ℹ INFORMATION**
>
> When operation is OFF, the user interface does not allow setpoint changes.

> **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.

4.3.4 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.

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

> **ℹ 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

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7 About the box

7.1 To unpack the user interface

1 Open the box.

2 Separate the accessories.
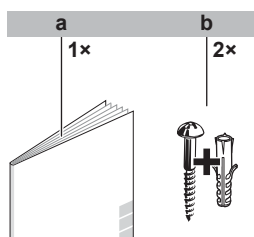
a Installation and operation manual
**b** Wood screws + wall plugs (Ø4.0×30)

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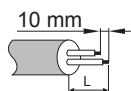
Wiring outlet	L
Top	±150 mm
Left	±120 mm
Bottom	±100 mm
Rear	No requirements

9 Installation

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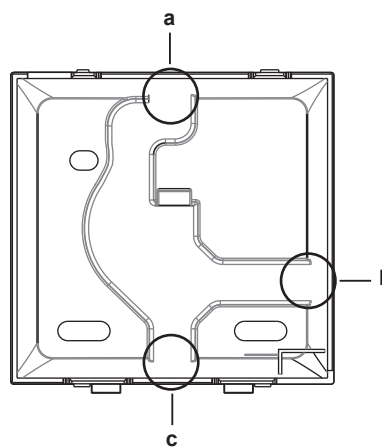
a Wiring from the top
b Wiring from the left
c Wiring from the bottom

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.

2 Mount the rear casing to a flat surface.
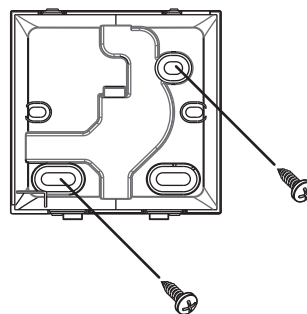
> **NOTICE**
> Be careful not to distort the rear casing by overtightening the mounting screws.

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**

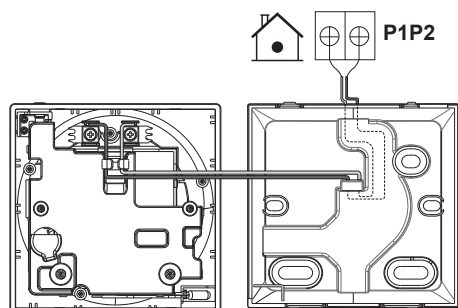When wiring, run the wiring away from the power supply wiring in order to avoid receiving electric noise (external noise).
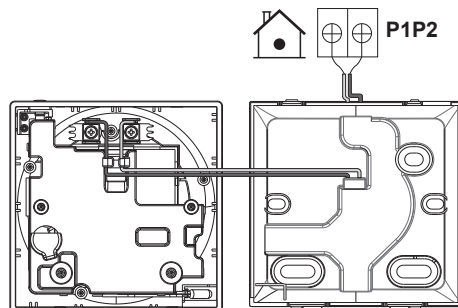
ℹ️ **INFORMATION**

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
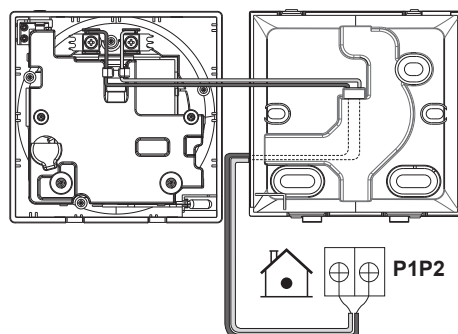
From the bottom
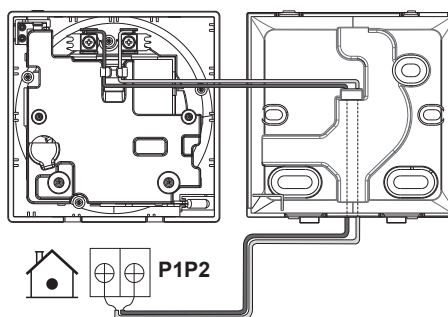
9.4 Closing the user interface

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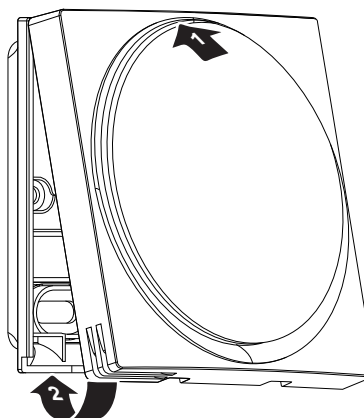
2 When the installation site is dust-free, peel off the protective seal.

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.
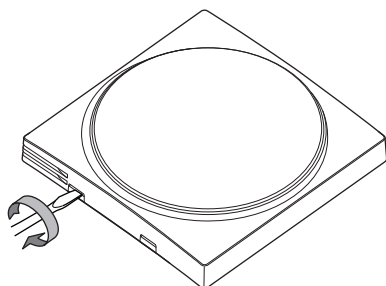
10   Starting up the system

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, therefore 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:

Start-up sequence
1
User interface booting up
2
User interface synchronising with the main user interface
3
User interface 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.

> **ℹ 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.
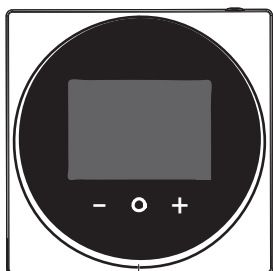
11.3 Status icons

Icon	Description
OFF	**System operation OFF.** Indicates that space heating/cooling operation and/or domestic hot water operation are turned OFF.
✳	**Bluetooth.**[2] 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.

ℹ 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

Status indicator behaviour	Condition
Continuous blue	**Operation ON** ▪ The unit is in operation (i.e. actually heating up/cooling down the space, or producing domestic hot water)
OFF	**Operation OFF** ▪ 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

ℹ INFORMATION

Status indicator behaviour is different when night mode is active. For more information, see .

ℹ 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".
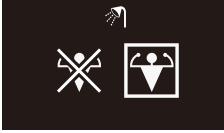
12 Operation

12.1 Basic usage

12.1.1 Operation screens

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

Operation screen	Description
20.5℃ ⚠	**Room temperature**. See the actual room temperature, and control the (desired) room temperature.
56℃ ⚠	**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
ℹ	**Information.** See information about the user interface.

---

(2)   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.

Menu	Description
✳	**Bluetooth.** Make the user interface send out a Bluetooth signal to perform a software update.
↩	**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
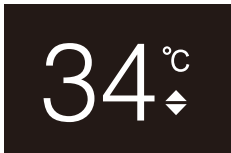
12.2.1 About space heating/cooling control

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 .

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

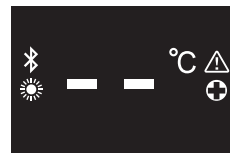| Main user interface temperature control method	Room temperature control
Room thermostat control	Change the actual room temperature by increasing or decreasing the desired room temperature value. 20.5℃ ↕
Leaving water temperature control (fixed)	Change the room temperature by increasing or decreasing the leaving water temperature (i.e. the temperature of the water that is sent to the heat emitters). 34℃ ↕
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. +6 ↕

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. ☀ ❄
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.

✳ 20.5℃ ⚠ ⊕

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.

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" on page 13.

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.
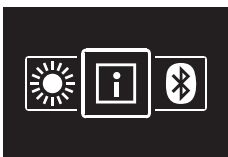
2 Use ➖ and ➕ to navigate to the space operation mode menu.
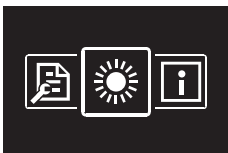
3 Press ⬤ to enter the menu.

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.
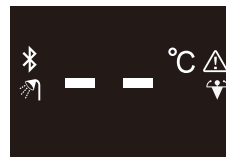
Powerful operation

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.
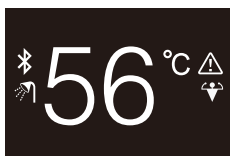
INFORMATION

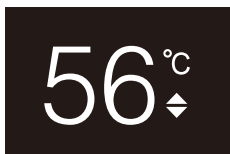To indicate operation is OFF, the user interface displays "OFF" on the home screen.

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.

> **ℹ️ INFORMATION**
>
> When operation is OFF, the user interface does not allow setpoint changes.

> **ℹ️ INFORMATION**
>
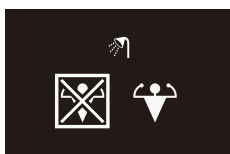> Depending on settings made on the main user interface, setpoint changes might not be possible. If this is the case, pressing ➕ or ➖ from the room temperature or domestic hot water operation screen is futile.
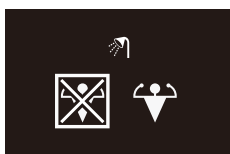
12.3.4 Using DHW powerful operation

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.

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

> **ℹ️ INFORMATION**
>
> For more information on Powerful operation, see the installer reference guide and the user reference guide of the units.
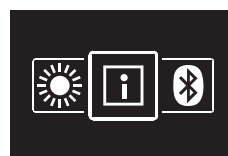
13 Configuration

13.1 Information

13.1.1 About the information menu

In the information menu, you can see the following information:

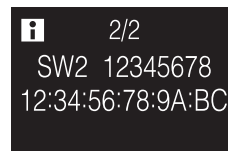| Information	Description
SW1	User interface software ID
Ver	User interface software version
SW2	Communication module (Bluetooth) software ID
--:--:--:--:--:--:	Communication module (Bluetooth) MAC address

13.1.2 To see information

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

2 Press 🔘 to enter the information menu.
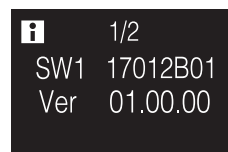
3 Press ➕ to go to the second page.

13.2　Settings menu

13.2.1　About the settings menu

In the settings menu you can make the following settings:

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

To enter the settings menu

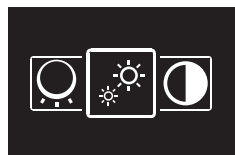1　From the home screen, press ⊙ and keep it pressed until you enter the main menu.
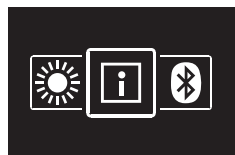
2　Use ▬ and ✚ to navigate to the settings menu.

3　Press ⊙ to enter the menu.

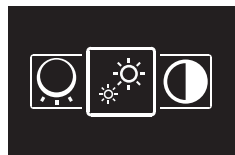**Result:** You are in the settings menu.
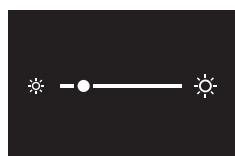

13.2.2　Screen settings

To set screen brightness

Prerequisite: You are in the settings menu.

1　Navigate to the screen brightness menu.

2　Press ⊙ to enter the menu.
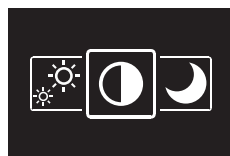

3　Use ▬ and ✚ to adjust screen brightness.

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.
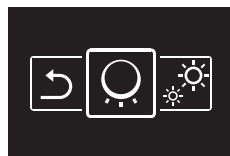
2　Press ⊙ to enter the menu.
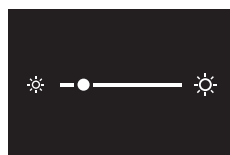
3　Use ▬ and ✚ to adjust status indicator intensity.

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	

Condition	Night mode behaviour
Error	Blinking, red. After touching any button, or after a timer expires: OFF.
Malfunction	OFF
Operation ON	OFF
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.
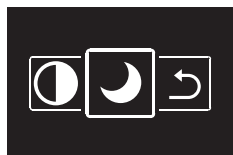
2 Press ⊙ to enter the menu.

3 Use ⊟ and ⊞ to select "activate".

4 Press ⊙ to activate night mode.

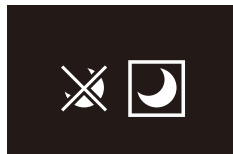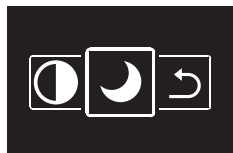**Result:** The user interface enters night mode and returns to the home screen.
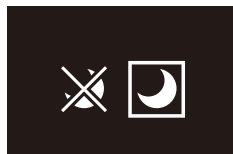
To deactivate night mode

Prerequisite: You are in the settings menu.

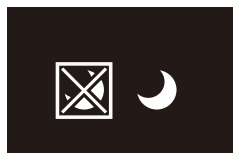**Prerequisite:** The user interface is in night mode.

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" on page 17
Updating tool	"13.3.3 Software update with updating tool" on page 18

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" on page 17.

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.

> **ℹ INFORMATION**
>
> The Madoka Assistant app is available from Google Play and the Apple Store.

> **ℹ 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.

> **ℹ 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).

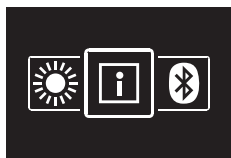### To make a Bluetooth connection

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.

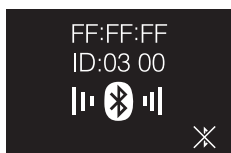**2** Use ▬ and ➕ to navigate to the Bluetooth menu.

3 Press ⬤ to enter the menu.

4 Press ➕ to activate ✳ and make the user interface send out a Bluetooth signal.
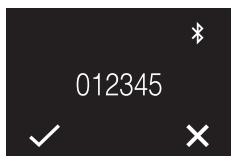
Result:

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.
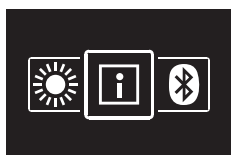

6 In the app, accept the pairing request.

7 On the user interface, press ▬ to confirm the numeric string.

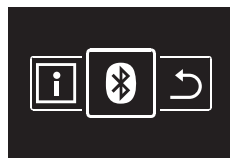**Result:** The user interface and the mobile device are connected via Bluetooth.

8 To update the software, follow the instructions from the app.
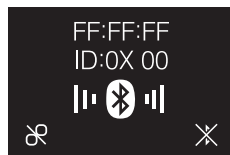
To terminate the Bluetooth connection

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

2 Use ▬ and ➕ to navigate to the Bluetooth menu.

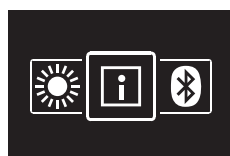**3** Press ⬤ to enter the menu.

4 Press ➕ to stop the user interface from sending out a Bluetooth signal.

Result:

To remove bonding information

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.
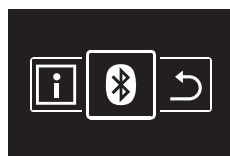
3 Press ⬤ to enter the menu.

4 Press ▬ to 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 EKPCCAB4 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
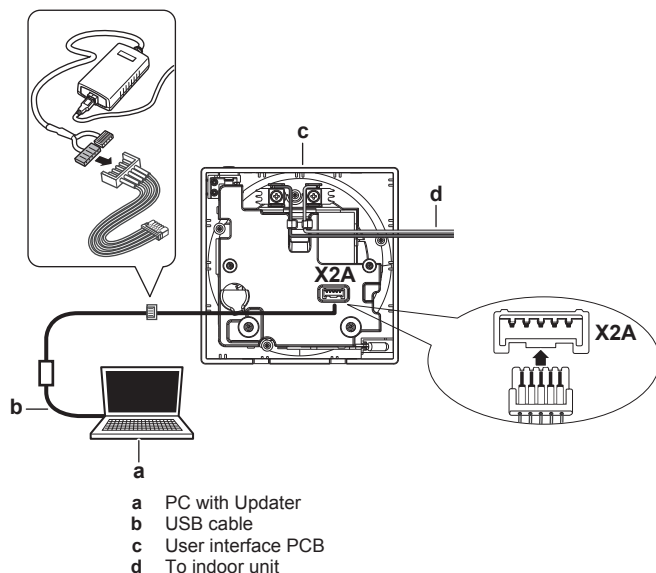**c** User interface PCB
d To indoor unit

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:** electric shock or injury.

🛇 **NOTICE**

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

⚠ **WARNING**

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

ℹ **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.

EAC

UA. TR. 028

И005 18

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

DAIKIN EUROPE N.V.

Zandvoordestraat 300, B-8400 Oostende, Belgium

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