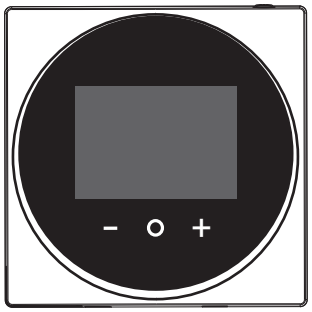
Installation and operation manual

Human Comfort Interface



BRC1HHDAW
BRC1HHDAS
BRC1HHDAK

Installation and operation manual
Human Comfort Interface

English

Table of contents

1 General safety precautions 2
1.1 For the user ... 2
1.2 For the installer ... 2
2 About this document 3
For the user 4
3 User interface: Overview 4
3.1 Buttons ... 4
3.2 Home screen ... 4
3.3 Status icons ... 4
4 Operation 4
4.1 Basic usage ... 4
4.1.1 Operation screens ... 4
4.1.2 Main menu ... 5
4.2 Space heating/cooling control ... 5
4.2.1 To turn ON/OFF space heating/cooling operation ... 5
4.2.2 To change the room temperature ... 5
4.2.3 To change the space operation mode ... 6
4.3 Domestic hot water control ... 6
4.3.1 To turn ON/OFF domestic hot water operation ... 6
4.3.2 To change the domestic hot water temperature ... 6
4.3.3 Using DHW powerful operation ... 6
4.4 Advanced usage ... 7
5 Maintenance and service 7
5.1 Overview: Maintenance and service ... 7
6 Troubleshooting 7
6.1 Overview: Troubleshooting ... 7
For the installer 7
7 About the box 7
7.1 To unpack the user interface ... 7
8 Preparation 7
8.1 Wiring requirements ... 7
9 Installation 7
9.1 Mounting the user interface ... 7
9.1.1 To mount the user interface ... 7
9.2 Connecting the electrical wiring ... 8
9.2.1 To connect the electrical wiring ... 8
9.3 Closing the user interface ... 8
9.3.1 To close the user interface ... 8
10 Starting up the system 8
11 Maintenance 9
11.1 Maintenance safety precautions ... 9
11.2 To clean the user interface ... 9

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

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

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(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.

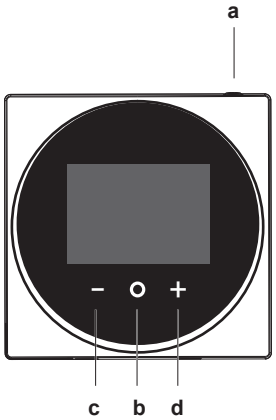
Technical engineering data

- 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.

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 the user interface is sending out a Bluetooth signal and 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. Indicates that Emergency operation is active.
	Warning. Indicates that an error occurred.

INFORMATION

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

INFORMATION

For more information on the Bluetooth signal and the software update, see the installer and user reference guide.

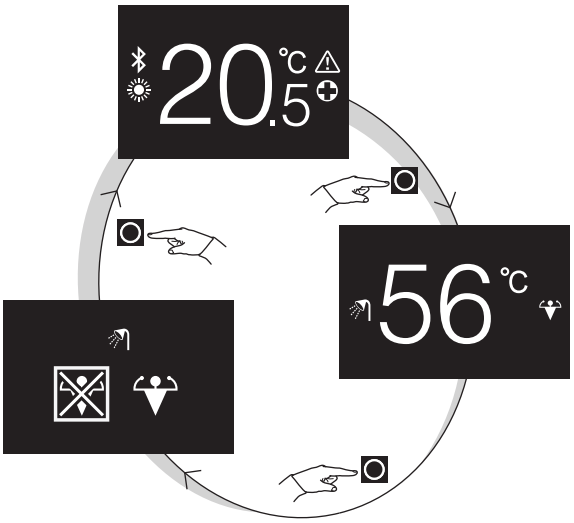
4 Operation

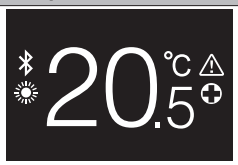
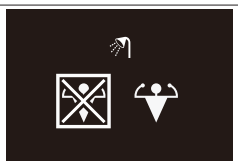
4.1 Basic usage

4.1.1 Operation screens

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

(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.



Operation screen	Description
	**Room temperature**. See the actual room temperature, and control the (desired) room temperature.
	Domestic hot water temperature. See and control the 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.
	Return. Return to the home screen.
	Settings. Make user interface settings.
	Space operation mode. Set the space operation mode.

INFORMATION

For more information on user interface information, software updates, and settings, see the installer and user reference guide.

4.2 Space heating/cooling control

4.2.1 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.

4.2.2 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

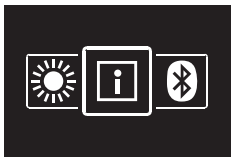
The way you control the room temperature depends on the temperature control method that is set on the main user interface. Depending on this, the setpoint screen can look different from the one represented in this manual.

If the room temperature is controlled with weather dependent leaving water temperature control, the setpoint screen features a shift value and not a temperature value.

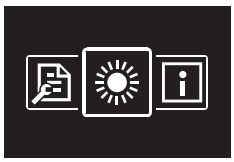
For more information, see the installer and user reference guide, and the documentation of the indoor units.

4.2.3 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 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.

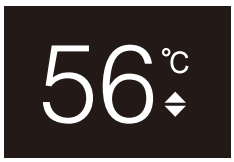
INFORMATION

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

4.3.2 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.

4.3.3 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 and user reference guide.

4.4 Advanced usage

For how to consult user interface information, make user interface settings, and perform a software update, see the installer and user reference guide.

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. For a list of error codes, see the documentation of the indoor unit.

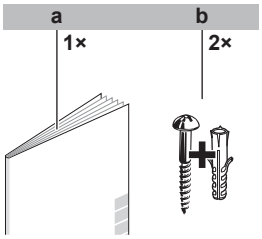
For the installer

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:

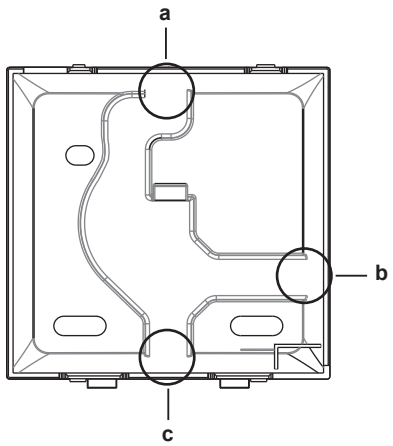
Wire specification	Value
Type	Sheathed vinyl cord or cable (2 wires)
Section	0.75~1.25 mm^2
Maximum length	500 m

9 Installation

9.1 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:



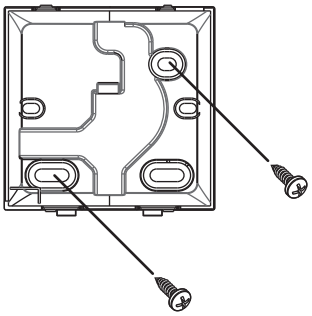
a Wiring from the top
b Wiring from the left
c Wiring from the bottom

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

9.1.1 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.

9.2 Connecting the electrical wiring

NOTICE

The wiring for connection is NOT included.

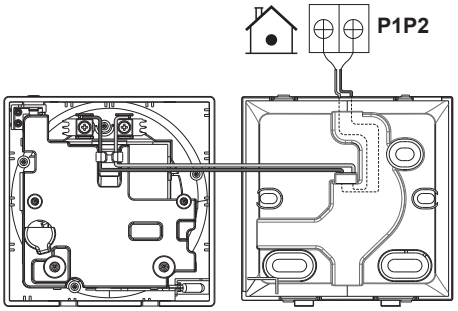
NOTICE

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

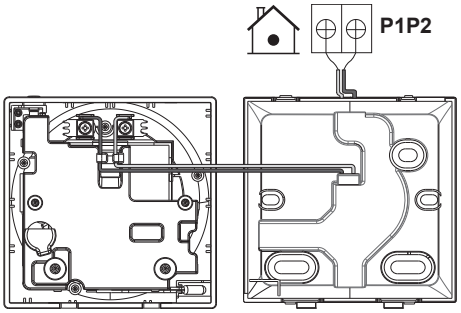
9.2.1 To connect the electrical wiring

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

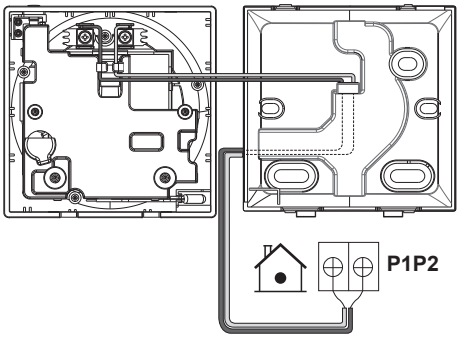
From the top



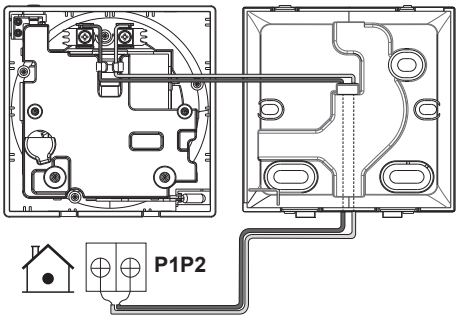
From the rear



From the left



From the bottom



9.3 Closing the user interface

CAUTION

Never touch the internal parts of the user interface.

CAUTION

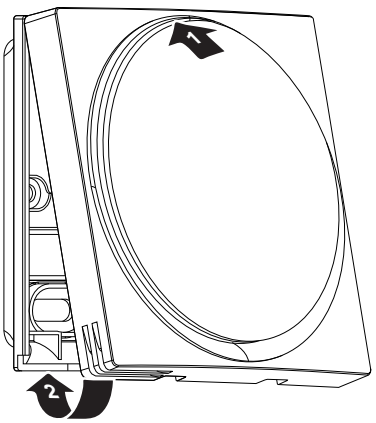
When closing the user interface, be careful not to pinch the wiring.

NOTICE

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

9.3.1 To close the user interface

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



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 displays the home screen, it will synchronise with the system 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 Maintenance

11.1 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.

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.

11.2 To clean the user interface

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

EAC

UA. TR. 028

И005 18

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

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4P534400-1 2018.06