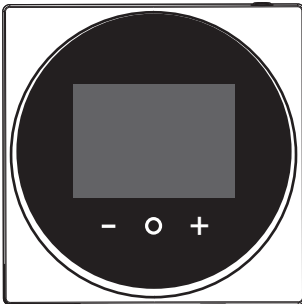




Installation and operation manual

Wired remote controller



BRC1H519W
BRC1H519K
BRC1H519S

Installation and operation manual
Wired remote controller

English

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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 remote controller. 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 controller with wet hands.
- Do NOT disassemble the controller and touch interior parts. Contact your dealer.
- Do NOT modify or repair the controller. Contact your dealer.
- Do NOT relocate or reinstall the controller by yourself. Contact your dealer.



WARNING

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



NOTICE

To clean the controller, 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 controller is an option and cannot be used standalone. 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 remote controller **MUST** be mounted indoors.

NOTICE

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

Do NOT install the controller 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 $<-10^{\circ}\text{C}$ 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 controller.
- Ask the user to store the manual for future reference.

INFORMATION

Consult your dealer regarding the relocation and reinstallation of the controller.

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 controller)

▪ Installer and user reference guide:

- Extended installation and operation information
- Format: Digital files on <http://www.daikineurope.com/support-and-manuals/product-information/>

▪ Daikin Control Assistant in-app documentation:

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

▪ 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 page <http://www.daikin.eu/BRC1H>.
- Format: Digital file from the product page



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.

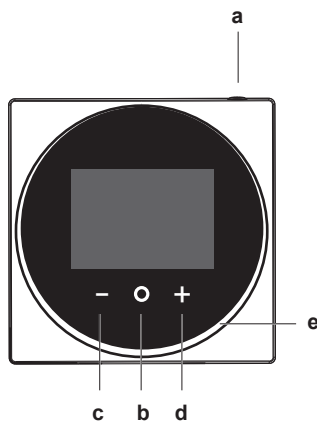
Technical engineering data

- 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).

3 Buttons

For the user

3 Buttons



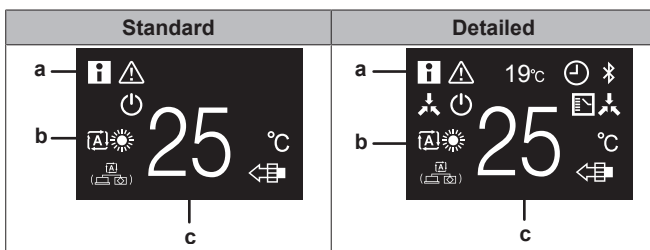
- a** ON/OFF
- When OFF, press to turn ON the system. As a result, the status indicator (e) will turn ON too.
 - When ON, press to turn OFF the system. As a result, the status indicator (e) will turn OFF too.
- b** ENTER/ACTIVATE/SET
- From the home screen, enter the main menu.
 - From the main menu, enter one of the submenus.
 - From their respective submenu, activate an operation/ventilation mode.
 - In one of the submenus, confirm a setting.
- c** CYCLE/ADJUST
- Cycle left.
 - Adjust a setting (default: decrease).
- d** CYCLE/ADJUST
- Cycle right.
 - Adjust a setting (default: increase).

INFORMATION

For a full description of the behaviour of the status indicator, see the installer and user reference guide.

4 Home screens

Depending on installer configuration, the controller either has a standard or a detailed home screen. In most cases, the standard home screen gives you only the active operation mode, messages (if any), and the setpoint temperature (in case of Cooling, Heating, or Auto operation mode). The detailed home screen gives you all kinds of information through status icons.



- a** Messages
b Active operation mode

c Setpoint temperature

INFORMATION

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

5 Status icons

Icon	Description
	System operation. Indicates that the system is operating.
	Bluetooth. ¹ Indicates that the controller is communicating with a mobile device, for use with the Daikin Control Assistant app.
	Centralised control. Indicates that the system is controlled by central control equipment (optional accessory) and that control of the system by the controller is limited.
	Changeover under centralised control. Indicates that the cooling/heating changeover is under centralised control by another indoor unit, or by an optional cool/ heat selector that is connected to the outdoor unit.
	Defrost/Hot start. Indicates that the defrost/hot start mode is active.
	Timer. Indicates that the schedule timer or OFF timer is enabled.
	Clock not set. Indicates that controller's clock is not set.
	Self-cleaning filter operation. Indicates that self-cleaning filter operation is active.
	Quick Start. Indicates that Quick Start mode is active (Sky Air only).
	Test operation. Indicates that Test Operation mode is active (Sky Air only).
	Inspection. Indicates that the indoor or outdoor unit is being inspected.
	Periodic inspection. Indicates that the indoor or outdoor unit is being inspected.
	Backup. Indicates that in the system an indoor unit is set as backup indoor unit.
	Individual airflow direction. Indicates that the individual airflow direction setting is enabled.
	Information. Indicates that the system has a message to convey. To see the message, go to the information screen.
	Warning. Indicates that an error occurred, or that an indoor unit component needs to be maintained.

⁽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
	Demand control. Indicates that the system's energy consumption is being limited, and that it is running with restricted capacity.
	End of demand control. Indicates that the system's energy consumption is no longer being limited, and that it is no longer running with restricted capacity.
	Rotation. Indicates that Rotation mode is active.
	Setback. Indicates that the indoor unit is operating under setback conditions.
	Ventilation. Indicates that a heat reclaim ventilation unit is connected.

INFORMATION

- For information on the operation mode and ventilation mode icons, see "6.1 Operation mode" on page 5 and "6.5.1 Ventilation mode" on page 6 respectively.
- Most icons are related to things set in the Daikin Control Assistant app. For more information, see the app, and the installer and user reference guide.

6 Operation

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

INFORMATION

- Depending on the type of indoor unit you are operating, more or less menus may be available.
- In the main menu, the icon for each menu reflects the current active setting or mode. When operating the controller, the menu you navigate through can look different from that represented in this manual.
- The controller only allows for basic operation of the system. For advanced operation (setback, schedule timer, ...), see the Daikin Control Assistant app.

6.1 Operation mode

The indoor unit can operate in various operation modes.

Icon	Operation mode
	Cooling. In this mode, cooling will be activated as required by the setpoint.
	Heating. In this mode, heating will be activated as required by the setpoint.
	Fan Only. In this mode, air circulates without heating or cooling.
	Dry. In this mode, the air humidity will be lowered with a minimal temperature decrease. The temperature and fan speed are controlled automatically and cannot be controlled by the controller. Dry operation will not function if the room temperature is too low.
	Ventilation. In this mode, the space gets ventilated, but not cooled or heated.

Icon	Operation mode
	Air Clean. In this mode, the optional air cleaning unit operates.
	Ventilation + Air Clean. Combination of ventilation and air clean operation.
	Auto. In Auto mode, the indoor unit automatically switches between heating and cooling mode, as required by the setpoint.

INFORMATION

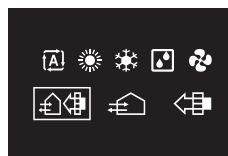
Depending on the indoor unit, more or less operation modes are available.

6.1.1 To set the operation mode

- Navigate to the operation mode menu.



- Use and to select an operation mode.



- Press to activate.

Result: The indoor unit changes its operation mode and the controller returns to the home screen.

6.2 Setpoint

The setpoint is the target temperature for the Cooling, Heating, and Auto operation modes.

6.2.1 To set the setpoint

Prerequisite: The active operation mode is either 'Cooling', 'Heating', or 'Auto'.

- In the home screen, use and to adjust the setpoint.



Result: The indoor unit changes its temperature setpoint.

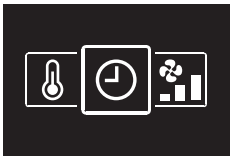
6.3 Clock and calendar

Set a time and date for the indoor units connected to the controller.

6.3.1 To set clock and calendar

- Navigate to the clock and calendar menu.

6 Operation



- 2 Set the time and the date.

6.4 Airflow

6.4.1 Airflow direction

The airflow direction is the direction in which the indoor unit blows its air.

INFORMATION

For more information, see the installer and user reference guide.

To set the airflow direction

- 1 Navigate to the airflow direction menu.



- 2 Use  and  to adjust the airflow direction.



- 3 Press  to confirm.

Result: The indoor unit changes its airflow direction and the controller returns to the home screen.

6.4.2 Fan speed

The fan speed is the strength of the airflow coming out of the indoor unit.



INFORMATION

For more information, see the installer and user reference guide.

To set the fan speed

- 1 Navigate to the fan speed menu.



- 2 Use  and  to adjust the fan speed.



- 3 Press  to confirm.

Result: The indoor unit changes its fan speed and the controller returns to the home screen.




6.5 Ventilation

INFORMATION

Ventilation settings can ONLY be made for heat reclaim ventilation units.

6.5.1 Ventilation mode

The heat reclaim ventilation unit can operate in various operation modes.

Icon	Ventilation mode
	Energy Reclaim Ventilation. The outdoor air is supplied to the room after passing through a heat exchanger.
	Bypass. The outdoor air is supplied to the room without passing through a heat exchanger.
	Auto. To ventilate the room in the most efficient way, the heat reclaim ventilation unit automatically switches between "Bypass" and "Energy Reclaim Ventilation" mode (based on internal calculations).



INFORMATION

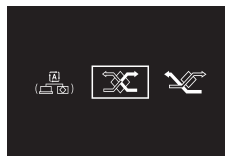
Depending on the heat reclaim ventilation unit, more or less ventilation modes are available.

To set the ventilation mode

- 1 Navigate to the ventilation mode menu.



- 2 Use  and  to select a ventilation mode.



- 3 Press  to activate.

Result: The heat reclaim ventilation unit changes its operation mode and the controller returns to the home screen.



6.5.2 Ventilation rate

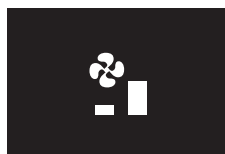
The ventilation rate is the fan speed during ventilation operation.

To set the ventilation rate

- 1 Navigate to the ventilation rate menu.



- 2 Use  and  to adjust the ventilation rate.



- Press  to confirm.

Result: The heat reclaim ventilation unit changes its ventilation rate and the controller returns to the home screen.

6.6 Advanced operation

The controller only allows for basic operation. For advanced operation, use the Daikin Control Assistant app.

6.6.1 To make a Bluetooth connection

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

Prerequisite: Your mobile device supports Bluetooth version 4.2.



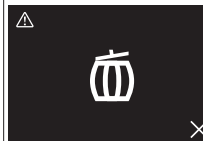
- Open the Daikin Control Assistant app and follow the instructions from there.

7 Maintenance and service

7.1 Overview: Maintenance and service

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

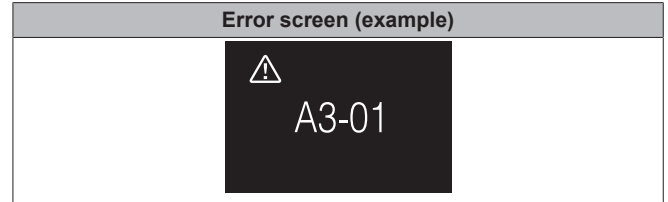
When the following indoor unit components are due for maintenance, you will be confronted by a maintenance screen from as soon as you try to enter the main menu:

Maintenance screens		
Clean filter	Replace filter	Empty dust collector
		

8 Troubleshooting

8.1 Overview: Troubleshooting

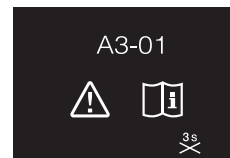
When the system is in error and the controller presents you with an error screen from as soon as you try to enter the main menu, consult your dealer.



8.2 Refrigerant leak detection

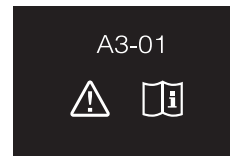
When the system detects a refrigerant leak, an alarm goes off. Stop the alarm and consult your dealer.

8.2.1 To stop the leak detection alarm



- Press  for 3 seconds to stop the alarm.

Result: The alarm stops.



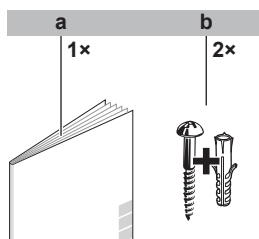
- Consult your dealer.

For the installer

9 About the box

9.1 To unpack the controller

- Open the box.
- Separate the accessories.



- a Installation and operation manual
b Wood screws + wall plugs (Ø4.0x30)

10 Preparation

10.1 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

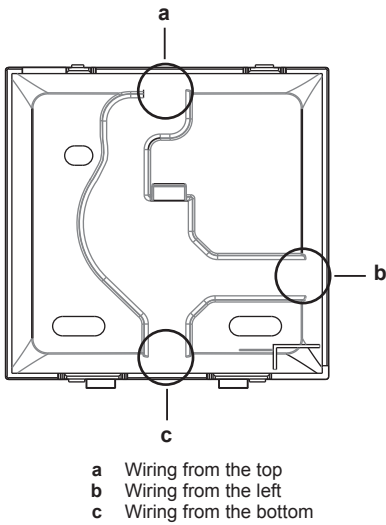
11 Installation

11.1 Mounting the controller

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

11 Installation

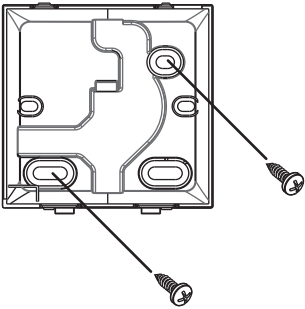
The wiring can be routed from the top, the rear, the left, or the bottom. Remove a piece of the rear casing according to the illustration:



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

11.1.1 To mount the controller

- 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.

11.2 Connecting the electrical wiring

NOTICE

The wiring for connection is NOT included.

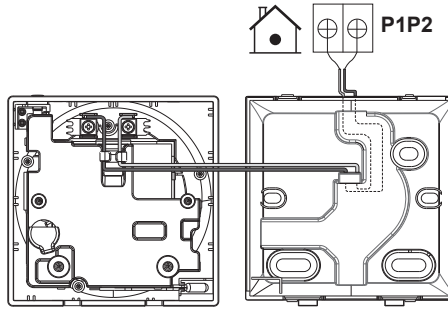
NOTICE

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

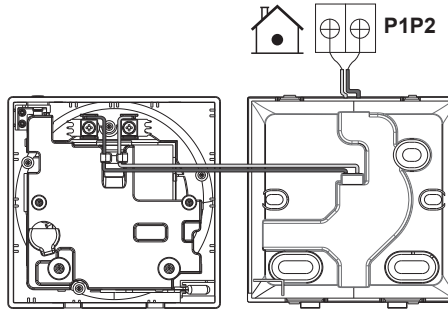
11.2.1 To connect the electrical wiring

Connect controller terminals P1/P2 to indoor unit terminals P1/P2.

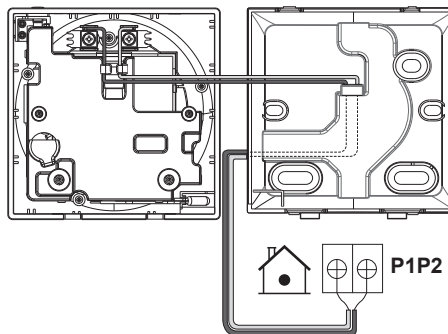
From the top



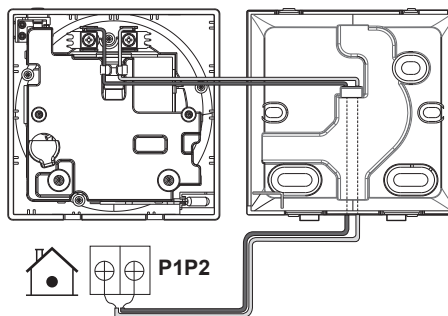
From the rear



From the left



From the bottom



11.3 Closing the controller



CAUTION

Never touch the internal parts of the controller.



CAUTION

When closing the controller, be careful not to pinch the wiring.

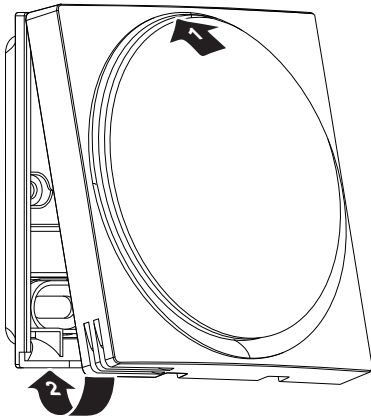


NOTICE

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

11.3.1 To close the controller

- 1 Click the front of the controller into the rear casing.




12 Starting up the system

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

Once the controller is powered, it will automatically start up. If it is the first and only controller that is connected to the indoor unit, it will automatically get designated as master controller. For a second controller to get designated as slave controller, manual action is required. For instructions, see "12.1 To designate a controller as slave" on page 9.

12.1 To designate a controller as slave

Prerequisite: A master controller is already connected to the indoor unit.

- 1 Connect a second controller.
Result: It will start up automatically.
- 2 Wait for a U5 or U8 error to appear on the screen.
- 3 When the U5 or U8 error appears, press  and keep it pressed until "2" appears on the screen.

Result: The controller is now designated as slave.

13 Maintenance

13.1 Maintenance safety precautions



WARNING

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



NOTICE

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



WARNING

Do not wash the remote controller. **Possible consequence:** electric leakage, electric shock, or fire.




INFORMATION

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

13.2 To clean the controller

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


13.3 Time to clean filter indication

When the indoor unit filter is dirty and needs to be cleaned, the controller will indicate this by displaying  in the top left corner of the home screen, and confronting you with the 'Time to clean filter' screen as soon as you try to enter the main menu from the home screen.

13.3.1 To remove the Time to clean filter indication

Prerequisite: On trying to enter the main menu from the home screen, you are confronted with the 'Time to clean filter' screen.



- 1 Clean the filter.
- 2 Press  to remove the 'Time to clean filter' indication.

