

WIRED REMOTE CONTROLLER



BRC073A1

Be sure to read this installer reference guide before conducting the installation of this product.

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1. About this document

Target audience

Authorized installers

Documentation set

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

Document	Contains	Format	
Installation and operation manual	Installation and operation instructions	Paper (in the box)	
Installer reference guide	Preparation of the installation, technical specifications, reference data,	Digital files on http://www.	
User reference guide	Detailed step-by-step instructions and background information for basic and advanced usage	daikineurope.com/support-and- manuals/product-information/	

Latest revisions of the supplied documentation may be available on the regional Daikin web site or via our dealer.

For detailed instructions refer to the installation videos available on http://www.daikineurope.com/ support-and-manuals/product-information/. More specifically, for how to connect the S21 connector, refer to the installation videos of the Daikin online controller.

2. Safety Precautions

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

Also see the installation manual attached to the indoor unit.

Please read these Safety Precautions carefully before installing the user interface.

• This manual classifies the precautions into WARNING and CAUTION. They both contain important information regarding safety. Be sure to follow all the precautions below.

WARNING	Failure to follow these instructions properly may result in personal injury or loss of life.
CAUTION	Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

• After completing the installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner with the aid of the User reference guide. Ask the customer to store the Installer reference guide along with the User reference guide for future reference.

Ask your dealer or qualified personnel to carry out installation work.

Do not attempt to install the user interface yourself. Improper installation may result in water leakage, electric shocks or fire.

Consult your local dealer regarding relocation and reinstallation of the user interface. Improper installation work may result in leakage, electric shocks or fire hazards.

Install the user interface in accordance with the instructions in this Installer reference guide. Improper installation may result in water leakage, electric shocks or fire.

Be sure to use only the specified accessories and parts for installation work.

Failure to use the specified parts may result in the unit falling down, water leakage, electric shocks or fire.

Install the user interface on a foundation strong enough to withstand the weight of the user interface. Insufficient strength may result in the user interface falling down and causing injury.

Electrical work must be performed in accordance with the relevant local and national regulations and with the instructions in this Installer reference guide.

Be sure to use a dedicated power supply circuit only. Insufficient power circuit capacity and improper workmanship may result in electric shocks or fire.

Always perform installation work with the power turned off.

Touching electric parts may result in electric shock.

Do not disassemble, reconstruct or repair.

This may result in electric shock and/or fire.

Make sure that all wiring is secured, the specified wires are used and that there is no strain on the terminal connections or wires.

Improper connections or securing of wires may result in abnormal heat build-up or fire.

The choice of materials and installations must comply with the applicable national and international standards.

To avoid leakage and electric shock due to entry of water or insects, fill the wiring through hole with putty.

To avoid electric shocks, do not operate with wet hands.

Do not wash the user interface with water, as this may result in electric shocks or fire.

Install the indoor and outdoor units, power cord and connection wires at least 1 meter away from televisions or radios to prevent interference and noise.

(Depending on the incoming signal strength, a distance of 1 meter may not be sufficient to eliminate noise.)

Do not install the air conditioner in the following locations:

- 1. Where there is a high concentration of mineral oil spray or vapour (e.g. a kitchen). Plastic parts may deteriorate and fall off which could result in water leakage.
- 2. Where corrosive gas, such as sulphurous acid gas, is produced. Corroding of copper pipes or soldered parts may result in refrigerant leakage.
- Near machinery emitting electromagnetic radiation. Electromagnetic radiation may disturb the operation of the control system and result in malfunctioning of the unit.
- 4. Where flammable gas may leak, where there is carbon fibre or ignitable dust suspensions in the air or where volatile flammables such as paint thinner or gasoline are handled. Operating the unit in such conditions may result in fire.
- 5. High temperature areas or direct flames. Overheating and/or fire may occur.
- Moist areas or places which may be exposed to water. If water enters the user interface, electric shock may be caused and the inner electronics may fail.

When the thermostat function of the user interface is used, select the installation location while considering it should be a place:

- Where the average temperature in the room can be detected.
- Which is not exposed to direct sunlight.
- Which is not near a heat source.
- Which is not affected by the outside air or air draught due to, for example, opening/closing of doors, the air outlet of the indoor unit or the like.
- Which is NOT located outdoors.

3. Accessories

See page 7 in the installation and operation manual for a list of included accessories. Not included but required: BRCW901A*.

Item No.	Length
BRCW901A03	3 m
BRCW901A08	8 m

4. User interface installation procedure

4-1 Determine where to install the user interface.

Make sure to follow "2. Safety Precautions" when determining the location.

4-2 Make a wiring through hole on the wall if the wires are coming out from the rear.



4-3 Determine the direction of the controller wiring outlet (rear outlet, left outlet, top left outlet).

4-3-1 Rear outlet



Cut off the resin area (hatched area).

4-3-2 Left outlet



Cut off the thin area (hatched area) with nippers or the like and then remove the burrs with a file or the like.

4-3-3 Top left outlet



Cut off the thin area (hatched area) with nippers or the like and then remove the burrs with a file or the like.

4-4 Conduct wiring.

4-4-1 Connections overview



4-4-2 Rear outlet







4-4-4 Top left outlet



- Do not perform wiring close to a power line in order to avoid electrical noise (external noise).
- Seal the wiring draw-in port securely with putty (field supply) to prevent the entry of insects or the like.

• The adapter does not provide any form of strain release. The installer must provide something to release the strain on the cables near the adapter.

• Earth both ends of the BRCW901A* option cable.

4-5 Fixing procedure of the lower case.

In the case of wiring a user interface through the rear outlet, perform the wiring through the outlet hole in the lower case before it is installed on the wall.

4-5-1 Wall mounting

Secure by using the attached wood screws (2×).



4-5-2 Switchbox mounting

Secure by using the attached small screws (2×).



- Select a flat surface for installation if possible.
- Do not tighten the installation screws too much to avoid deforming the lower case.

4-6 Securing the user interface adapter.

Remove the upper case of the user interface adapter and secure the lower case assembly.



4-7 Attach the upper case.

- Align the upper case with the tabs of the lower case (6 points) and insert the upper case.
- Be careful not to pinch the wiring when attaching.
- Peel off the protective seal which is attached to the upper case.



4-8 Remove the upper case.

Insert a slot screwdriver into the slots in the lower case (2 places) to remove the upper case.

– NOTE –

- The user interface PCB is installed on the upper case. Be careful not to damage the PCB with the slot screwdriver.
- Take care that dust or moisture does not touch the PCB of the removed upper case.



5. Functions and menu items of the user interface buttons

5-1 Functions and menu items



(1) Operation Mode Selector button

- This button is enabled by default. To disable, refer to "14. Prohibit Buttons" on page 26.
- Press this button to select the operation mode of your preference.
- Available modes may vary with the connected model.

(2) Fan Speed/Airflow direction button

- Used to change the fan speed and airflow direction.
- Available fan speeds and airflow directions may vary with the connected model.

(3) Menu/Enter button

- This button is enabled by default. To disable, refer to "5-2 Enable/disable the Menu/Enter and Cancel button" on page 13.
- Used to display the main menu or enter the selected item. (For details on the main menu, see the User reference guide.)

Main menu*

Airflow Direction Energy Saving Options Schedule Maintenance Information Configuration Current Settings Clock & Calendar Language

(4) Up button \blacktriangle

- Used to raise the set temperature.
- The next item on the upper side will be highlighted.
 (Keep pressing the button to cycle through the values or items.)
- Used to change the selected item.

(5) Down button ▼

- Used to lower the set temperature.
- The next item on the lower side will be highlighted.

(Keep pressing the button to cycle through the values or items.)

• Used to change the selected item.

(6) Right button ►

- Used to highlight the next item on the right-hand side.
- The display contents are changed to the next screen.

(7) Left button ◀

- Used to highlight the next items on the left-hand side.
- The display contents are changed to the previous screen.

(8) On/Off button

• Press to start or stop the air conditioner.

(9) Operation lamp (Green)

- This lamp lights up during operation.
- This lamp will blink if an error or mode conflict occurs.
- This lamp is not lit when the unit operation is OFF.

(10) Cancel button

- Used to return to the previous screen.
- Press and hold this button for 4 seconds or longer to display the Service Settings menu.

To operate the Up/Down/Left/Right button, always press ▲, ▼, ◄, or ►.

(11) LCD (with backlight)

- The backlight will be lit for approximately 30 seconds when one of the buttons is pressed.
- The actions linked to the buttons, except for the On/Off button, are not carried out when the backlight is not lit.

Service Settings menu*

Test Operation** Maintenance Contact Field Settings Error History

*Available menu items are depending on the connected model.

**Not displayed in case of multi-split setup.



5-2 Enable/disable the Menu/Enter and Cancel button

To disable the Menu/Enter and Cancel button in the Basic screen, proceed as follow:

- 1. Keep the ▶ button pressed.
- 2. Push the 3 indicated keys simultaneously while keeping the ▶ button pressed.

To enable the Menu/Enter and Cancel button in the Basic screen, follow the same procedure.



5-3 Description of button operation



6. Power-on

- Check that the indoor/outdoor unit wiring is completed.
- Check that the switchbox cover of the indoor and outdoor units are closed before powering on.

Split air conditioner is connected to a user interface

- 6-1 Turn on the power. <Main user interface> NOTE -6-2 "Checking the connection. 6-2 Please stand by." is displayed. When the text on the Checking the connection. Please stand by left is displayed, the backlight does not light up when one of the buttons is pressed. <Basic screen> 6-3 The Basic screen is displayed. 6-3 **28**℃ 2 NOTE
 - When selecting a different language, refer to "13. Language" on page 25.
 - The displayed operation mode on the user interface at first startup depends on the operation mode of the indoor unit.

7. Field settings

- 7-1 Press and hold the Cancel 7-1 button for 4 seconds or longer. The Service Settings menu is displayed.
- **7-2** Select Field Settings and press **7-2** the Menu/Enter button.

7-3 Highlight the "Mode No.", and select the desired "Mode No." by using the ▲▼ (Up/Down) buttons. For the most commonly used field settings, refer to page 16.



FIRST CODE (SW) NO.

- The current settings are displayed.
- CODE NO. " -- " means that there is no function available.
- 7-4 Highlight the SECOND CODE. of the FIRST CODE NO. to be changed and select the desired SECOND CODE NO. by using the ▲▼ (Up/Down) buttons. Multiple identical mode number settings are available.
- 7-5 Press the Menu/Enter button. The 7-5 confirmation screen is displayed. 7-6
- **7-6** Select Yes and press the Menu/ Enter button. The settings are saved and the Field settings screen returns.



- **7-7** After all changes are completed, press the Cancel button twice.
- **7-8** The backlight goes out and "Checking the connection. Please stand by" is displayed during initialization. After the initialization, the Basic screen returns.

Mode	FIRST		SECOND CODE NO. (Note 2)			
NO. (Note 1)	 CODE Description of the setting NO. 		01	02	03	04
1b	13	Icon or Icon+Text on Basic screen	Icon+Text	Icon	_	_
1e	2	Setback function.	Do not use	Heat only	Cool only	Cool and Heat

8. Test operation method (pair split only)

* In case of multi-split models, see the manual attached to the outdoor unit.

- NOTE

• In case of multi-split setup, test operation cannot be used.

Also see the installation manuals attached to the indoor unit and the outdoor unit.

- Check that the wiring of the indoor unit and the outdoor unit is completed.
- Check that the switchbox cover of the indoor unit and the outdoor unit is closed.
- After refrigerant piping, drain piping and electric wiring are completed, clean the inside of the indoor unit and the decorative panel.
- Perform the test operation according to the following procedure.

NOTE

- The backlight will be lit for approximately 30 seconds when pressing one of the operation buttons.
- Operate the buttons only when the backlight is lit. However, the On/Off button can be operated when the backlight is not lit.
- 8-1 Make sure to turn on the power at least 6 hours before starting test operation to protect the compressor.

Make sure that the outer panel and piping cover are closed before operation (danger of electric shock).

8-2 Confirm that both the liquid and gas stop valves are opened.

NOTE

After the air purge of the vacuum pump, the refrigerant pressure may not rise even though the stop valve is opened. The reason is that the refrigerant system of the outdoor unit is blocked by the electrical expansion valve or the like. Operation is no problem.

- 8-3 Set the operation mode to cooling by using the Operation Mode Selector button.
- 8-4 Press and hold the Cancel button for 4 seconds or longer. The Service Settings menu is displayed.



<Service Settings>

8-5 Select Test Operation and press the Menu/Enter button. The Basic screen returns and "Test operation" is displayed.

8-5

Service Settings

Field Settings Error History

Test Operation Maintenance Contact

8-6 Press the On/Off button within about 10 seconds. Test operation starts. Check the operation condition for 3 minutes.

- NOTE Test operation can also be started by first performing 8-6, followed by 8-5.

- 8-7 Press the Menu/Enter button in the Basic screen. The Main menu is displayed.
- 8-8 Select Airflow Direction and press the Menu/Enter button.
- 8-9 Press the ▲▼ buttons to select the desired airflow direction and press the Menu/Enter button. The Basic screen returns.
- Press the Menu/Enter Return button. 8-6 洋菜 31 Press the On/Off button (within 10 seconds). Test Operation <Main menu> 8-7 Main Menu 1/2 Airflow Direction Energy Saving Options Schedule Maintenance Information Press the Menu/Enter Configuration button. Current Settings Retu 8-8 Airflow Direction Direction2 8-9 Swing stop Change the airflow direction using the $\blacktriangle \nabla$ (Up/Down) buttons. + CRet \$)
- 8-10 Press and hold the Cancel button for 4 seconds or longer in the Basic screen. The Service Settings menu is displayed.





is lit.

Press the Menu/Enter

<Service Settings menu>

8-11 Select Test Operation in the Service 8 Settings menu and press the Menu/ Enter button. The Basic screen returns and normal operation is possible.



- **8-12** Check the functions according to the User reference guide.
- **8-13** When the decoration panel is not installed, turn off the power after test operation finishes.

- If the interior work is not completed when the test operation is finished, explain to the customer
 that he should not operate the unit until the interior work is completed in order to protect the
 indoor unit.
- (If the indoor unit is operated, the indoor unit may be contaminated with the materials which arise from paints or adhesives during the interior work and water splash or water leak may occur.)

- If it is not possible to operate the unit due to any malfunction, refer to Malfunction diagnosis method.
- When the test operation finishes, check that the error code history is not displayed in the Maintenance Information screen according to the following procedure.
- 8-14 Press the Menu/Enter button in the Basic screen. The Main menu is displayed.

<Basic screen>



<Main menu>

Press the Menu/Enter button.

8-15 Select Maintenance Information and 8-15 press the Menu/Enter button.



- **8-16** The Maintenance Information screen is displayed. Check that the last error code is not displayed in the screen.
- 8-17 If the last error code is displayed, conduct the malfunction diagnosis referring to "Error code list" in the installation manual of the indoor unit. After the malfunction diagnosis finishes, press and hold the On/Off button for 4 seconds or longer in the "Maintenance Information" screen to erase the error code history.

Malfunction diagnosis method

- When the user interface displays any item in the following table, inspect the details in the table.
- If an error occurs, "A" is displayed. Conduct the malfunction analysis referring to "Error code list" in the installation manual of the indoor unit. To see the RC Error History screen, refer to "9. Checking procedure of Error History".



- NOTE -

If no error code is displayed when this procedure is followed, the system has completed the test operation normally.



User interface display	Description	
No display	 Power outage, power voltage failure or open- phase Wrong wiring (between indoor and outdoor units) Indoor PCB assembly failure User interface wiring disconnection User interface failure Blown fuse (outdoor unit) 	
Display "Checking the connection Please stand by" is shown.*	 Indoor PCB assembly failure Wrong wiring (between indoor and outdoor units) 	

* Though "Checking the connection Please stand by" is displayed for up to 180 seconds after powering on, this does not mean there is a failure. (Determine after 180 seconds if error code "U5" is displayed.)

9. Checking procedure of Error History

- **9-1** Press and hold the Cancel button for 4 seconds or longer in the Basic screen. The Service Settings menu is displayed.
- **9-2** Select Error History and press the Menu/Enter button. The Error History menu is displayed.
- **9-3** Select **RC Error History** and press the Menu/Enter button. The error codes can be confirmed in the RC Error History screen.



- **9-4** In the RC Error History screen the last 10 items are displayed in order.
- **9-5** Press the Cancel button in the RC Error History screen 3 times. The Basic screen returns.

10. Registration method of the Maintenance Contact information

- Registration of the service contact information.
- 10-1 Press and hold the Cancel button for 4 seconds or longer in the Basic screen. The Service Settings menu is displayed.

10-2

10-3

10-4

10-6

<Basic screen>



10-7 Press the Cancel button once. The Basic screen returns.

displayed.

11-2

11. Confirmation of registered details

11-3

11-1 Press the Menu/Enter button in the Basic screen. The Main menu is displayed.

<Basic screen> 11-1 * **28**℃ 2 Press the Menu/Enter button. <Main menu> Select Maintenance Information and 11-2 Main Menu 1/2 press the Menu/Enter button. The Airflow Direction Energy Saving Options "Maintenance Information" screen is Schedule Maintenance Information Configuration Current Settings Press the Menu/Enter Setting 🔁 Return ۵ button.

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Maintenance Information

Contact Info

0123-4567-8900 Indoor Model Outdoor Model Return

- 11-3 Confirm that the contact information is entered correctly.
- 11-4 Press the Cancel button twice. The Basic screen returns

The registered

details are displayed.

12. Clock & Calendar

- **12-1** Press the Menu/Enter button in the Basic screen. The Main menu is displayed.
- 12-2 Select Clock & Calendar and press the Menu/Enter button. The "Clock & Calendar" menu is displayed.
- **12-3** Select Date & Time and press the Menu/Enter button. The "Date & Time" screen is displayed.
- 12-4 Select the "Year", "Month", "Day" and time by using the ▲▶ (Left/Right) buttons and change the value by using the ▲▼ (Up/Down) buttons. When the buttons are pressed and held, the values change continuously.
- **12-5** Press the Menu/Enter button. The confirmation screen is displayed.



<Basic screen>

12-1

"Month", "Day" and 12-4 ▲► (Left/Right) ge the value by b/Down) buttons. a are pressed and barge optionuously

Retu

Setting

NOTE

The day of the week is set automatically.

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12-6 Select Yes and press the Menu/ Enter button. The settings are confirmed and the Basic screen returns.



NOTE

If a power outage lasts longer than 48 hours, the time is reset and needs to be set again.

Press the Menu/Enter

button

Press the Menu/Enter

button.

13. Language

- **13-1** Press the Menu/Enter button in the Basic screen. The Main menu is displayed.
- **13-2** Select Language and press the Menu/Enter button. The "Language" screen is displayed.
- 13-3 Press the ▲▼ (Up/Down) buttons to select the desired language and press the Menu/Enter button. The settings are confirmed and the Basic screen returns.



<Basic screen>

The visible languages are depending on the installed language pack. By default, the first language pack is installed. To install another language pack, a software update needs to be done. For more information about performing a software update, refer to "17. Software update with Updater" on page 30.

Langu	age Pack 1	Language Pack 2 Language Pa		age Pack 3	
7 Languages		7 Languages		7 Languages	
1) EN	English	1) EN	English	1) EN	English
2) DE	German	2) CZ	Czech	2) RU	Russian
3) FR	French	3) HR	Croatian	3) EL	Greek
4) IT	Italian	4) HU	Hungarian	4) TR	Turkish
5) ES	Spanish	5) SL	Slovenian	5) PL	Polish
6) PT	Portuguese	6) RO	Romanian	6) SR	Serbian
7) NL	Dutch	7) BG	Bulgarian	7) SK	Slovak

14. Prohibit Buttons

- Restriction of the number of operable buttons.
- **14-1** Press the Menu/Enter button in the Basic screen. The Main menu is displayed.
- **14-2** Lock Function can be made visible 1 by pressing the Menu/Enter button for 4 seconds.
- **14-3** Select Lock Function and press the 14 Menu/Enter button. The "Lock Function" menu is displayed.
- **14-4** Select **Prohibit Buttons** and press the Menu/Enter button. The "Prohibit Buttons" screen is displayed.
- 14-5 Select "Up/Dwn/L/R", "On/Off", "Mode" or "Fan Speed" by using the
 ◆ (Left/Right) buttons and "Lock/ Unlock" by using the ▲▼ (Up/Down) buttons.
- **14-6** Press the Menu/Enter button. The confirmation screen is displayed.
- **14-7** Select <u>Yes</u> and press the Menu/ Enter button. The settings are entered and the Basic screen returns.



<Basic screen>

15. Function Prohibition

• Restriction of the number of operable functions.



15-7 Select Yes and press the Menu/ Enter button. The settings are entered and the Basic screen returns.



NOTE

• When a function is prohibited, the 🗝 icon will be displayed next to the function.

16. Prohibit Mode

- Restriction of the number of operable modes.
- <Basic screen> 16-1 Press the Menu/Enter button in the 16-1 Basic screen. The Main menu is * displayed. **28**℃ 2 лđ Press the Menu/Enter button. <Main menu> **16-2** Lock Function can be made visible 16-2 Main Menu 1/2 by pressing the Menu/Enter button for Airflow Direction Energy Saving Options Schedule 4 seconds Maintenance Information Configuration Current Settings Press the Menu/Enter Return ۵ button for 4 seconds. 16-3 Select Lock Function and press the 16-3 Main Menu Menu/Enter button. The "Lock Lock Function Airflow Dire Function" menu is displayed. Energy Saving Options Schedule Maintenance Information Configuration Press the Menu/Enter Return ۵ button. ing

Prohibit Mode



NOTE -

• When the currently active mode is locked, this mode will still be active upon returning to the Basic screen. Only when the mode is changed, the disabled mode will not be available anymore. When all modes are locked, it is not possible to change to another mode other than the currently active mode.

17. Software update with Updater

- The BRC073A1 software includes by default language pack 1.
- Other language packages can be installed with the "PC USB cable" option (EKPCCAB3) + updater software.
- Prerequisites:
 - Updater software: please contact your local dealer for the correct version.
 - "PC USB cable" EKPCCAB3 or higher: includes wire harness and cables 4P344073-1- and 4PW64322-1A (both are needed during the installation).

Installation instructions:

- 1. Make sure that the indoor unit is powered off.
- 2. Connect the cables.
 - See the figure below for how to connect the cables.
- 3. Power on the indoor unit.
- 4. Start the updater on the PC.
- 5. Proceed to the "Update Procedure Selection" window. The user interface software is automatically detected.
- 6. Fill in the model name "BRC" in the filter box and select the desired language pack.
- 7. Follow the onscreen instructions (additionally, during installation, cable 4P344073-1 is needed).



- 1) PC with updater
- 2) PC USB cable
- 3) 4PW64322-1A cable
- 4) User interface PCB
- 5) To indoor unit S21 (see "4. User interface installation procedure" on page 5)

More information about the available languages can be found in "13. Language" on page 25.

EHC



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