



Installation and operation manual

Madoka wired remote controller

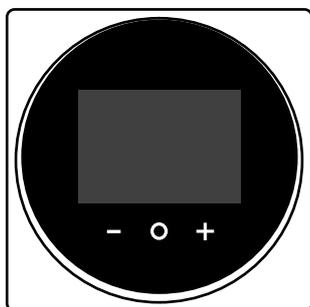


Table of contents

1	General safety precautions	2
1.1	For the installer.....	2
1.2	For the user.....	3
2	About this document	3
For the user		4
3	Remote controller: Overview	4
3.1	Buttons.....	4
3.2	Status icons.....	4
3.3	Status indicator.....	4
4	Operation	5
4.1	Basic usage.....	5
4.1.1	Home screen.....	5
4.1.2	Main menu.....	5
4.2	Operation mode.....	5
4.2.1	To set the operation mode.....	5
4.3	Setpoint.....	5
4.3.1	To set the setpoint.....	6
4.4	Date and time.....	6
4.4.1	To set date and time.....	6
4.5	Airflow.....	6
4.5.1	Airflow direction.....	6
4.5.2	Fan speed.....	6
4.6	Advanced usage.....	6
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 controller.....	7
8	Preparation	7
8.1	Wiring requirements.....	7
9	Installation	7
9.1	Mounting the controller.....	7
9.1.1	To mount the controller.....	8
9.2	Connecting the electrical wiring.....	8
9.2.1	To connect the electrical wiring.....	8
9.3	Closing the controller.....	8
9.3.1	To close the controller.....	9
10	Starting up the system	9
11	Maintenance	9
11.1	Maintenance safety precautions.....	9
11.2	To clean the controller.....	9
11.3	Time to clean filter indication.....	9
11.3.1	To remove the Time to clean filter indication.....	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 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.



WARNING

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



WARNING

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



NOTICE

The 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 where it is exposed to direct sunlight.
- In places where it is near a heat source.
- In places that are affected by outside air or air draught due to e.g. door opening/closing.
- In places where the display can easily get dirty.
- In places where there is **NO** easy access to the controls.
- In places with temperatures $< -10^{\circ}\text{C}$ and $> 50^{\circ}\text{C}$.

- In places where the relative humidity is >95%.
- In places where there is machinery that emits electromagnetic waves. Electromagnetic waves may disturb the control system, and cause malfunction of the equipment.
- In places where it may be exposed to water, or in generally moist areas.

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

After finishing installation:

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



INFORMATION

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

1.2 For the user

General



WARNING

To clean the controller, do NOT use organic solvents, such as paint thinner.



WARNING

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



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 play with the unit or its remote controller. Accidental operation by a child may result in impairment of bodily functions and harm health.

2 About this document

Target audience

Authorised installers + end users

Documentation set

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

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



INFORMATION: Declaration of conformity

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

The documentation set is available from the BRC1HF product pages.

BRC1HF



<https://qr.daikin.eu/?N=BRC1HF>



INFORMATION: Madoka Assistant in-app documentation

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

The latest revision of the supplied documentation is published on the regional Daikin website and is available via your dealer.

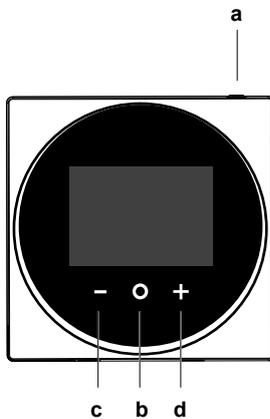
The original instructions are written in English. All other languages are translations of the original instructions.

3 Remote controller: Overview

For the user

3 Remote controller: Overview

3.1 Buttons



- a ON/OFF
 - When OFF, press to turn ON the system.
 - When ON, press to turn OFF the system.
- 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 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).

3.2 Status icons

Icon	Description
	System operation ON. Indicates that the system is in operation.
	System operation OFF. Indicates that the system is NOT in operation.
	Bluetooth.⁽¹⁾ Indicates that the controller is communicating with a mobile device, for use with the Madoka Assistant app.
	Lock. Indicates that a function or operation mode is locked and therefore cannot be used or selected.
	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.

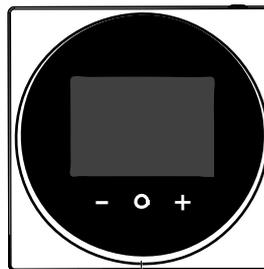
⁽¹⁾ The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and use of such marks by Daikin Europe N.V. is under license. Other trademarks and trade names are those of their respective owners.

Icon	Description
	Schedule/Timer. Indicates that the system operates according to a schedule, or that the OFF timer is enabled.
	Time not set. Indicates that controller's time is not set.
	Test operation. Indicates that test operation mode is active.
	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.
	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. For more information about troubleshooting error codes, see the installer and user reference guide.
	Setback. Indicates that the indoor unit is operating under setback conditions.

INFORMATION

- For information on the operation mode icons, see "4.2 Operation mode" [▶ 5].
- Most icons are related to things set in the Madoka Assistant app. For more information, see the app, and the installer and user reference guide.

3.3 Status indicator



a
a Status indicator

INFORMATION

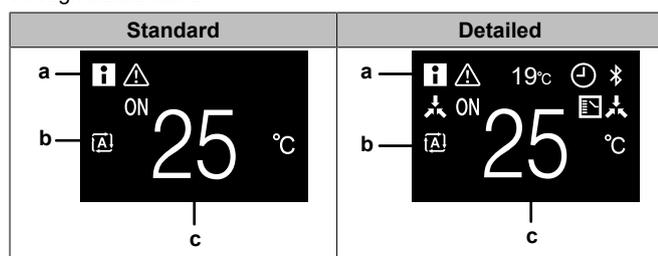
For a full description of the behaviour of the status indicator, see the installer and user reference guide.

4 Operation

4.1 Basic usage

4.1.1 Home screen

Depending on 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 additional information through status icons.



- a Messages
- b Active operation mode
- c Setpoint temperature

i 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 any button.

4.1.2 Main menu

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.

i 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 Madoka Assistant app.

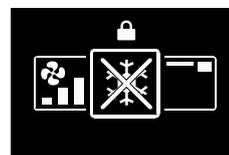
4.2 Operation mode

i INFORMATION

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

i INFORMATION

The operation mode menu is locked by default. The menu appears crossed-out in the main menu, and is accompanied by a lock icon. To access the operation mode menu and change the operation mode, the function lock must first be released. The locking and releasing of functions happens through the Madoka Assistant app. For more information, see the installer and user reference guide and the Madoka Assistant app.



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, or by Setback operation.
	Heating. In this mode, heating will be activated as required by the setpoint, or by Setback operation.
	Fan Only. In this mode, air circulates without heating or cooling.
	Auto. In Auto mode, the indoor unit automatically switches between heating and cooling mode, as required by the setpoint.

i INFORMATION

After changing the operation mode from Heating or Cooling to Auto, allow up to 10 minutes for the indoor unit to automatically determine whether it needs to operate in heating or cooling mode. During this time, the operation mode stays as the operation mode that was active before Auto was selected.

4.2.1 To set the operation mode

Prerequisite: The operation mode menu function lock is released.

- 1 Navigate to the operation mode menu.



- 2 Use and to select an operation mode.



- 3 Press to activate.

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

4.3 Setpoint

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

4 Operation

4.3.1 To set the setpoint

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

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



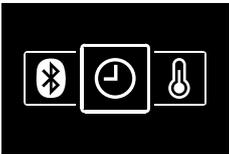
Result: The indoor unit changes its temperature setpoint.

4.4 Date and time

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

4.4.1 To set date and time

- 1 Navigate to the date and time menu.



- 2 Press  to activate .



Result: The fields become editable.



- 3 Set the date and time. Set with  and . Confirm with . Cycle through the menu until all fields are set correctly.

Result: You set the date and the time.

INFORMATION

Confirming the value in a field will automatically bring you to the next field. To finish making settings and leave the menu, navigate to and confirm the value in the last field.

4.5 Airflow

4.5.1 Airflow direction

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

INFORMATION

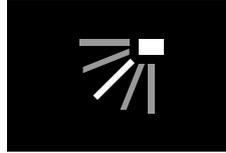
For more information, see the installer and user reference guide.

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.

4.5.2 Fan speed

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

INFORMATION

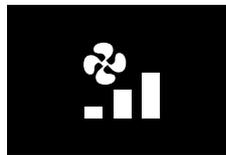
For more information, see the installer and user reference guide.

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.

4.6 Advanced usage

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

INFORMATION

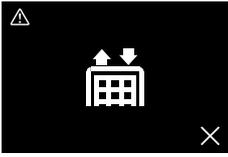
For more information, see the installer and user reference guide.

5 Maintenance and service

5.1 Overview: Maintenance and service

When a system components needs maintenance or service, consult your dealer. To indicate that maintenance is due, the controller displays  on the home screen, and/or displays a warning screen as soon as you press  to enter the main menu from the home screen.

The following warning screens are related to indoor unit maintenance:

Clean the indoor unit filter 	Replace the indoor unit filter 
Empty the indoor unit dustbox 	—

6 Troubleshooting

6.1 Overview: Troubleshooting

When the system is in error, consult your dealer. To indicate system error, the controller displays  on the home screen, and/or displays an error screen as soon as you press  to enter the main menu from the home screen.

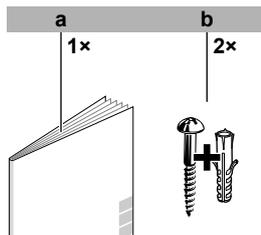


For the installer

7 About the box

7.1 To unpack the controller

- 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



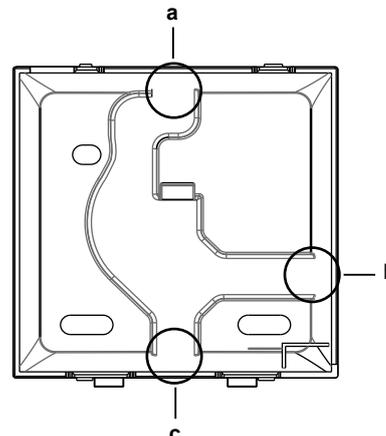
NOTICE

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

9.1 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.

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:



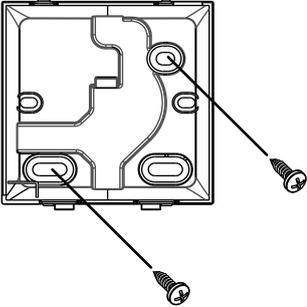
9 Installation

- 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 do not have to remove anything.

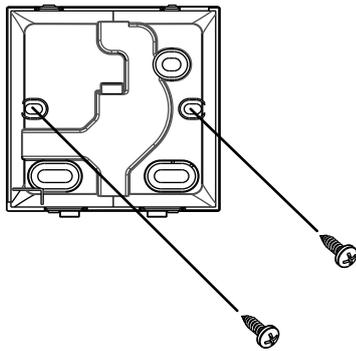
9.1.1 To mount the controller

- 1 Take the screws and plugs from the accessory bag.
- 2 Mount the rear casing to a flat surface.



i INFORMATION

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



! NOTICE

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

! NOTICE

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

9.2 Connecting the electrical wiring

! NOTICE

The wiring for connection is NOT included.

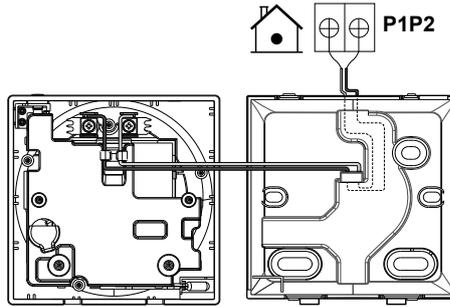
! NOTICE

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

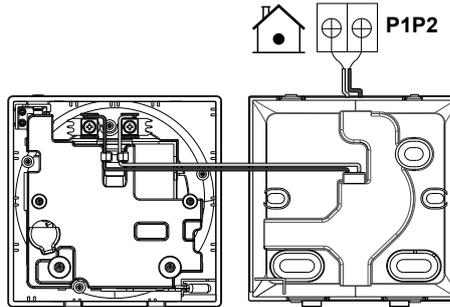
9.2.1 To connect the electrical wiring

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

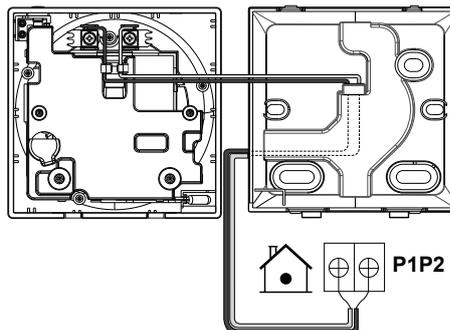
From the top



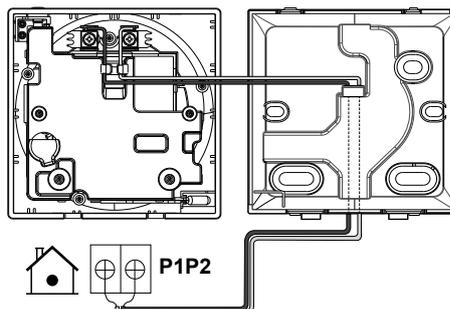
From the rear



From the left



From the bottom



9.3 Closing the controller



CAUTION

NEVER touch the internal parts of the controller.



CAUTION

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

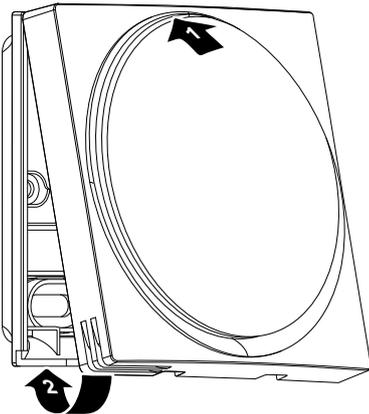


NOTICE

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

9.3.1 To close the controller

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



10 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, 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 a master controller.

i INFORMATION

For more information on how to designate the controller to be of a different type (as master controller or as slave controller), see the installer and user reference guide.

11 Maintenance

11.1 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:** electrical shock or injury.

! NOTICE

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

! WARNING

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

i 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.

11.2 To clean the controller

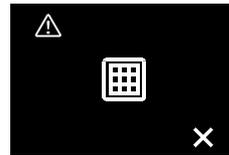
- 1 Wipe the screen and other surface parts of the controller with a dry cloth.

11.3 Time to clean filter indication

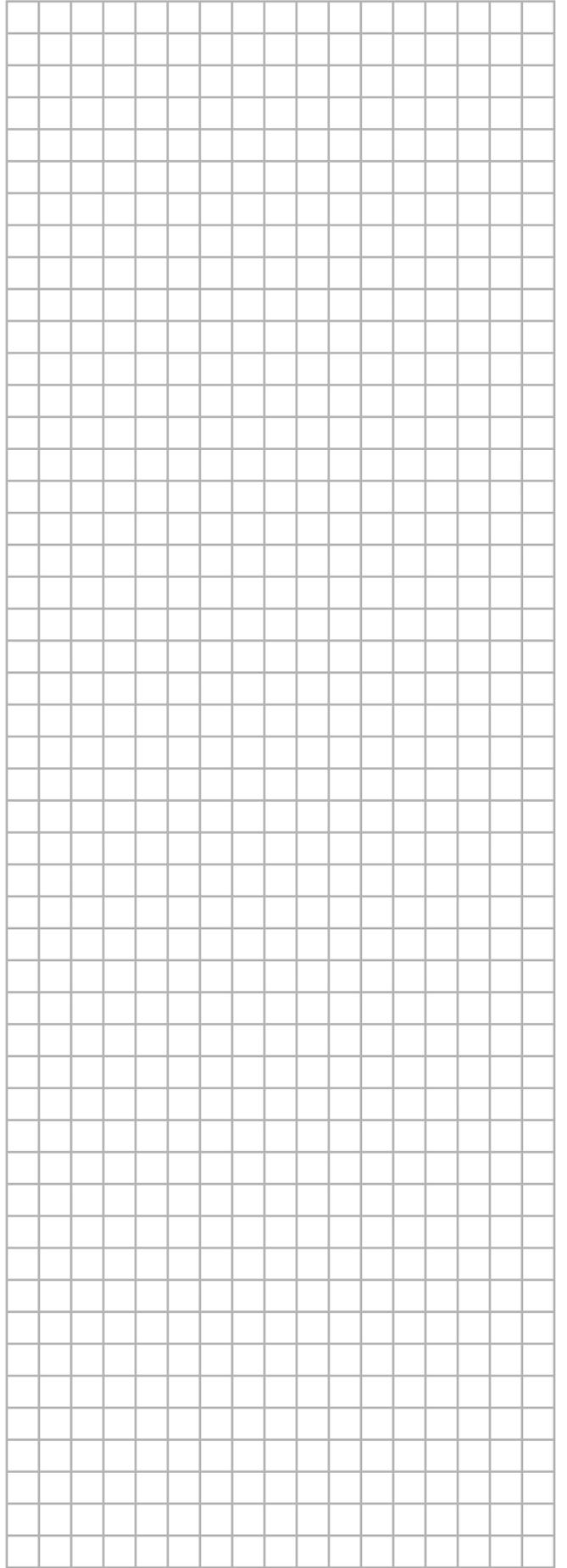
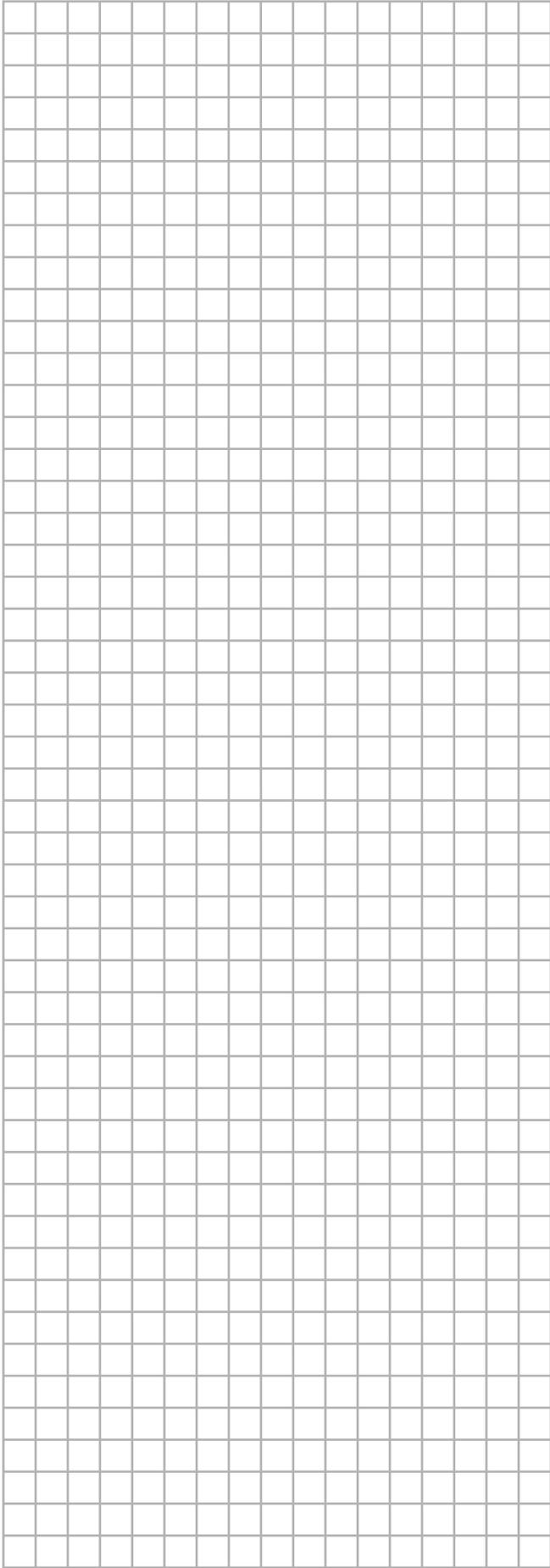
When the indoor unit filter is dirty and needs to be cleaned, the controller will indicate this by displaying **!** in the top left corner of the home screen, and confronting you with the 'Time to clean filter' screen as soon as you try to enter the main menu from the home screen.

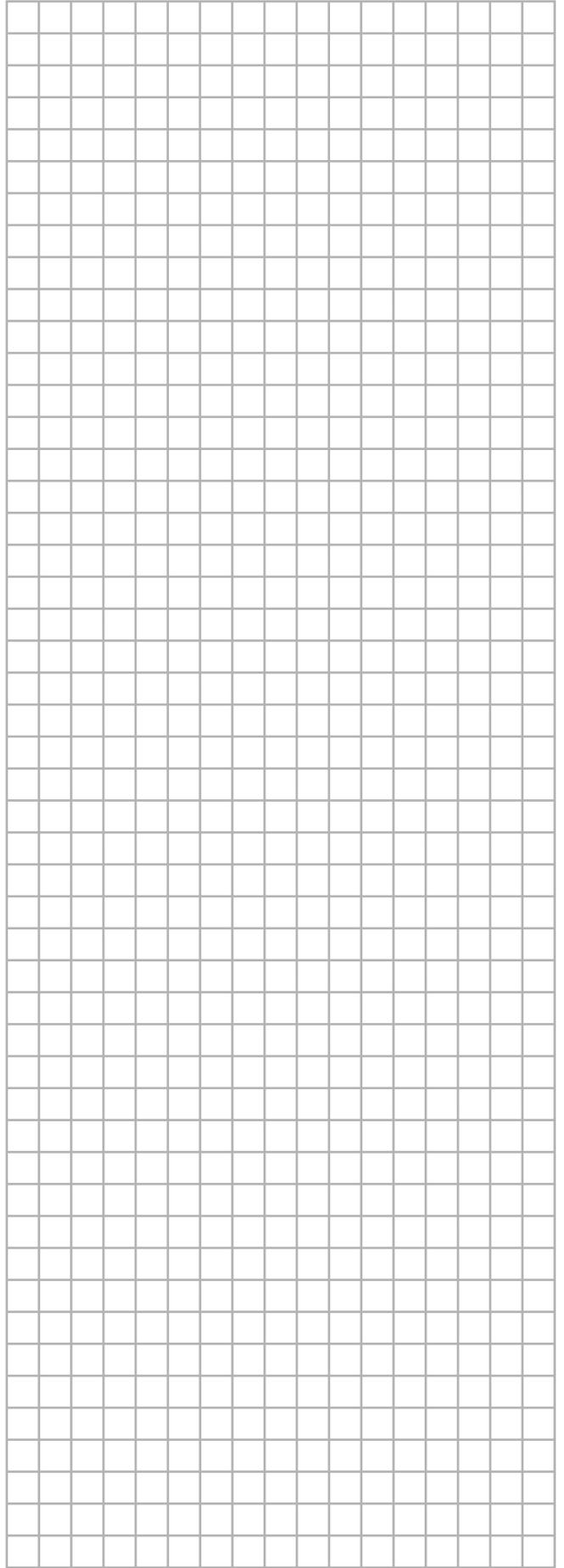
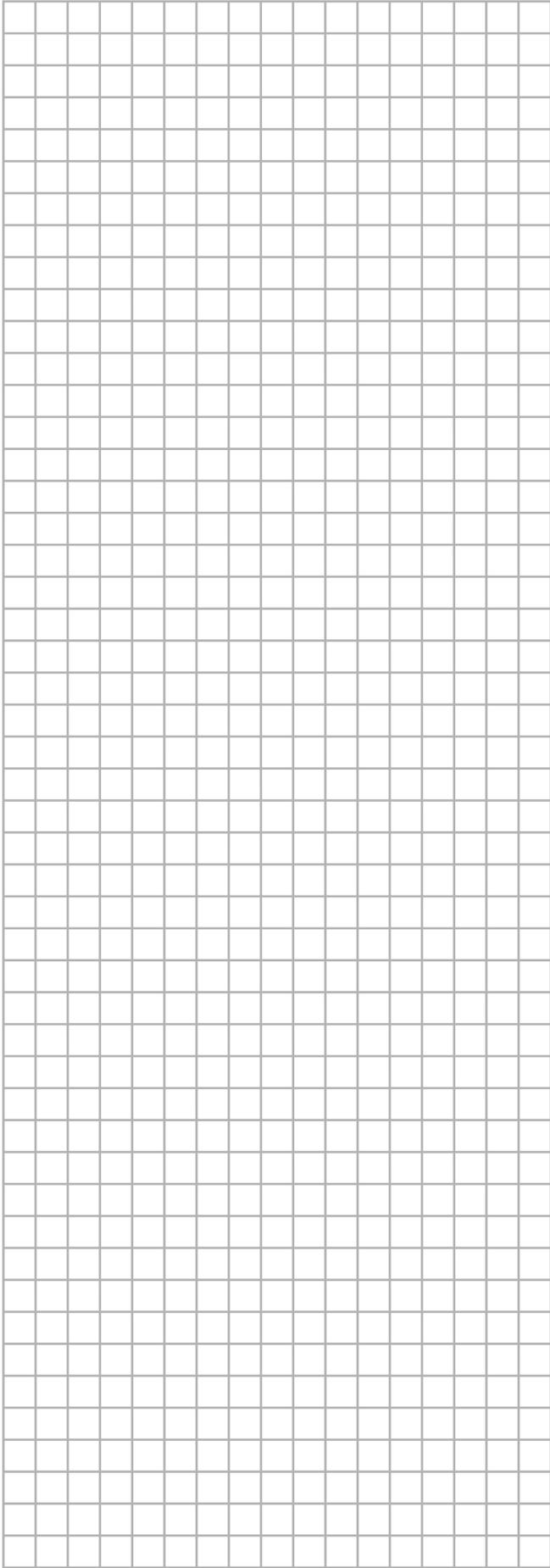
11.3.1 To remove the Time to clean filter indication

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.





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