Panasonic®

Installation Instructions

High-spec Wired Remote Controller
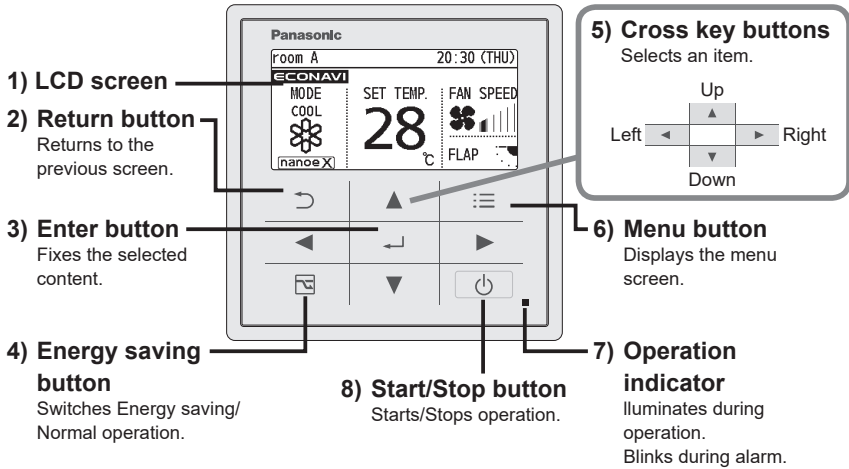
Model No. **CZ-RTC5B**

English

Read through the Installation Instructions before you proceed with the installation.
In particular, you will need to read under the "Safety Precautions" on page 3.
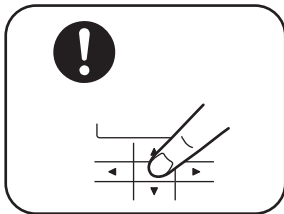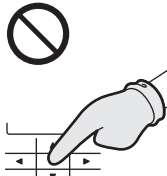
Contents

Part Names (Control panel)

1) LCD screen

2) Return button
Returns to the previous screen.

3) Enter button
Fixes the selected content.

4) Energy saving button
Switches Energy saving/ Normal operation.

```
Panasonic
room A                    20:30 (THU)
ECONAVI
MODE     SET TEMP.   FAN SPEED
COOL
❄         28          ❄ ▮▮▮▮
nanoe X        ℃     FLAP  ⬎
```

5) Cross key buttons
Selects an item.

Up
Left ◄ ► Right
Down

6) Menu button
Displays the menu screen.

7) Operation indicator
Iluminates during operation.
Blinks during alarm.

8) Start/Stop button
Starts/Stops operation.

Note

Press centre

No glove
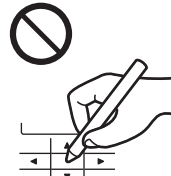
No pen

Supplied accessories		
Screw M3.8 x 16 (2)	**Quick Reference** (1)	**Clamper** (1)

*Remote control wiring is not supplied. (field supplied item)

Safety Precautions

Read before installation
- Read the Installation Instructions carefully to install the remote controller correctly and safely.
  Be sure to read the Safety Precautions in particular before installation.
- After the installation is complete, perform test operation to confirm that no abnormality is present.
- We assume no responsibility for accidents or damages resulting from methods other than those described in the installation instructions or methods without using specified parts.
  Malfunctions that occurred due to the unauthorised installation methods are not covered by the product warranty.
- Read the installation instructions supplied with indoor units as well.

⚠ **WARNING**
This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

⚠ **CAUTION**
This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

⚠ **WARNING**

- Turn off the circuit breaker of the units before installation.
- Ask your dealer or professionals for installation and electric work.
- This controller shall be installed in accordance with National Wiring Regulations.
- Connect and fix the specified cables for wiring securely.
- Do not allow the connection to be exposed to the external force of the cables.
- Choose an installation location that sufficiently supports the weight of the remote controller.

⚠ **CAUTION**

- Do not use the remote controller at the following locations.
- Location where condensation occurs
- Location where flammable gases, etc. may leak
- Location where corrosive gases, etc. may leak
- Location with lots of water or oil droplets (including machine oil)
- Location where voltage fluctuation frequently occurs
- Location where there is a machine producing electromagnetic radiation
- Location where droplets of organic solvents spread
- Location where acidic or alkaline solutions or special sprays are frequently used
- Do not operate with wet hands.
- Do not wash with water.

NOTICE **The English text is the original instructions. Other languages are translation of the original instructions.**

Specifications

Model No.	CZ-RTC5B
Dimensions	(H) 120 mm x (W) 120 mm x (D) 16 mm
Weight	180 g
Temperature/ Humidity range	0 ˚C to 40 ˚C / 20 % to 80 % (no condensation) *Indoor use only.
Power Source	DC16 V (supplied with indoor unit)
Clock precision	± 30 seconds/month (at normal temperature 25 ˚C) *Adjust periodically.
Number of connectable indoor units	Up to 8 units

datanavi
This unit supports datanavi.
For details on the usage, supporting regions, etc.,
visit the following URL.
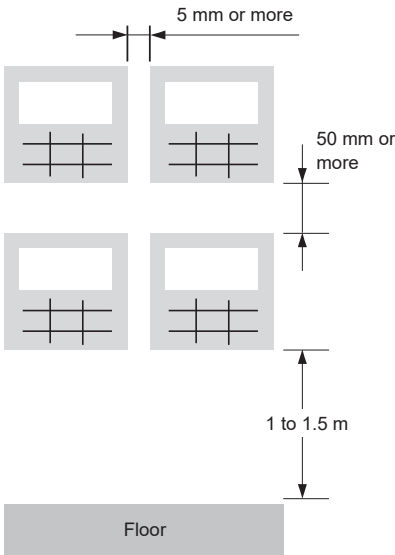https://datanavi.ac.smartcloud.panasonic.com/global/

Rotation operation
It is possible to make rotation operation settings on this unit.
For more information, refer to the Operating Instructions.

Installation Precautions

Installation location

5 mm or more

50 mm or more

1 to 1.5 m

Floor

- ● Install at the height of 1 to 1.5 m from the floor (Location where average room temperature can be detected).
- ● Install vertically against the floor.
- ● When installing more than 1 remote controller next to each other, keep distance of 5 mm on the right and left and 50 mm on top and bottom.
- ● Avoid the following locations for installation.
  - • By the window, etc. exposed to direct sunlight or direct air
  - • In the shadow or backside of objects deviated from the room airflow.
  - • Location where condensation occurs (The remote controller is not moisture proof or drip proof.)
  - • Location near heat source
  - • Uneven surface
- ● Keep distance of 1 m or more from the TV, radio and PC. (Cause of fuzzy images or noise)

Remote control wiring

■ Wiring diagram

Indoor unit

RC

R1
R2

RC wiring (field supply)
• No polarity
Terminals for RC wiring

1
2
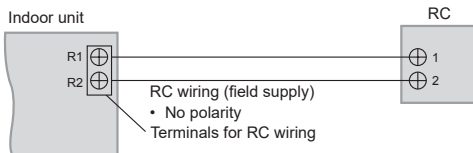
■ Type of wiring
  ● Use cables of 0.5 to 1.25 mm^2.
■ Total wire length: 500 m or less (The wire length between indoor units should be 200 m or less.)
■ Number of connectable units
  Remote controller: Max. 2
  Indoor unit: Max. 8

Attention

- ● Use the field supplied RC wiring with at least 1 mm in thickness of insulation part including the sheath. Regulations on wire diameters differ from locally to locally. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning. You must ensure that installation complies with relevant rules and regulations.
- ● Be careful not to connect cables to other terminals of indoor units (e.g. power source wiring terminal). Malfunction may occur.
- ● Do not bundle together with the power source wiring or store in the same metal tube. Operation error may occur.
- ● If noise is induced to the unit power supply, attach a noise filter.

Wiring as shown below is prohibited.
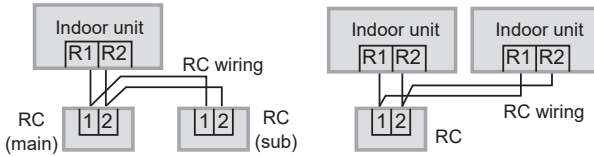
When setting both the main and sub remote controllers

After installation, set one remote controller to [Main] and the other to [Sub] for [Main/sub] for "Setting" (P.11).
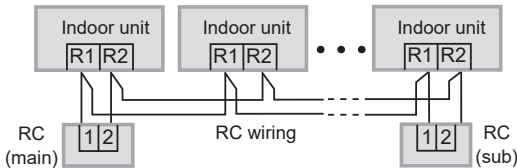
When using the remote controllers* in combination, set this unit to [Main].

*CZ-RTC2, CZ-RTC4, CZ-RE2C2, CZ-RELC2
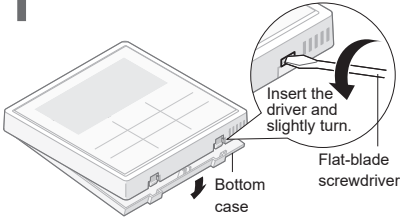
■ **Using 1 indoor unit**
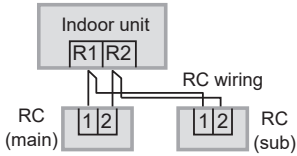
■ **Using more than 1 indoor unit**

> **Note**
>
> ● Remote controllers can be connected to any indoor unit for operation.

Mounting

1 **Remove the bottom case.**

Insert the driver and slightly turn.

Flat-blade screwdriver

Bottom case

2 **Mount to the wall.**

Attention

Mounting the bottom case
● Tighten the screws securely until the screw heads touch the bottom case.
(Otherwise, loose screw heads may hit the PCB and cause malfunction when mounting the top case.)
● Do not over-tighten the screws.
(The bottom case may be deformed, resulting in fall of the unit.)
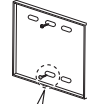
Connecting the remote control wiring
● Arrange the wires as shown in the illustration for ❷ in step 2, avoiding unnecessary wires being stored in the remote controller case.
(Caught wires may destroy the PCB.)
● Avoid wires touching parts on the PCB.
(Caught wires may destroy the PCB.)

Exposed type

Preparation: Make 2 holes for screws using a driver.

3 **Mount the top case.**
● Align the claws of the top case and then align the claws of the bottom case.

Cut here with a nipper and remove the burr with a file.

Claw (2 places)

1 **Mount the bottom case to the wall.**

Wall to which the remote controller is fixed

Hole for screw

Claw (2 places)

Screw (Supplied)
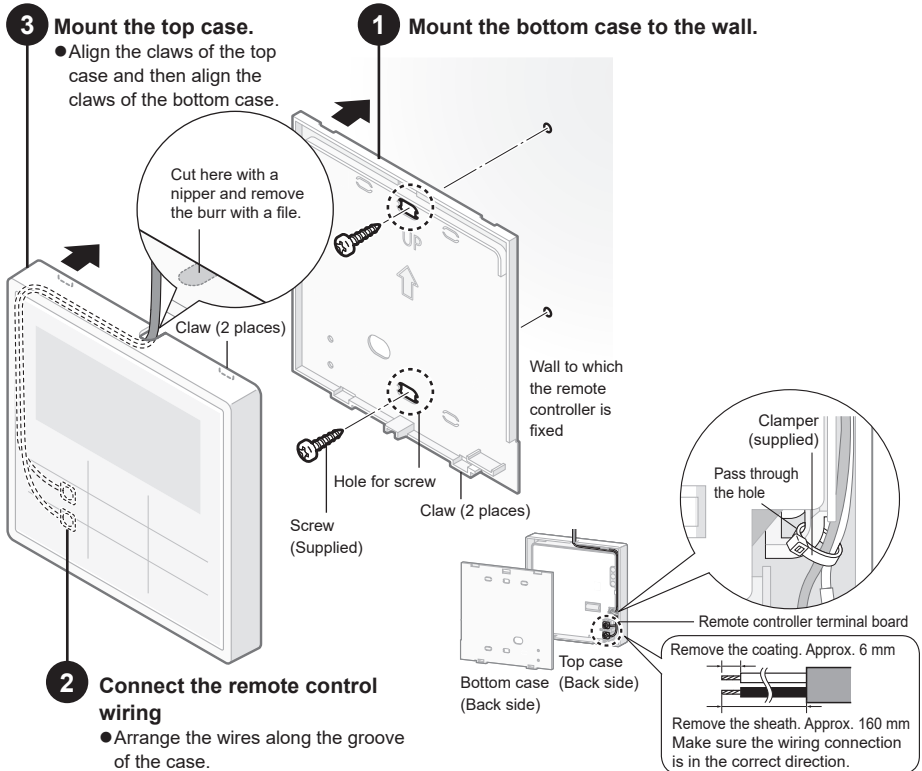
2 **Connect the remote control wiring**
● Arrange the wires along the groove of the case.

Clamper (supplied)

Pass through the hole

Remote controller terminal board

Top case (Back side)
Bottom case (Back side)

Remove the coating. Approx. 6 mm

Remove the sheath. Approx. 160 mm
Make sure the wiring connection is in the correct direction.

Embedded type

Preparation: Make 2 holes for screws using a driver.

1 **Mount the bottom case to the wall.**
● Pass the wire through the hole in the centre of the bottom case.

3 **Mount the top case.**
● Align the claws of the top case and then align the claws of the bottom case.

Avoid the wire being caught.

Claw (2 places)

Hole for screw

Screw (Supplied)

Claw (2 places)

2 **Connect the remote control wiring**

Remote controller terminal board

Top case (Back side)

Bottom case (Back side)

Remove the coating. Approx. 6 mm

Make sure the wiring connection is in the correct direction.

Dimensions

120

120

16

23 | 23

5-5x9

83.5

(mm)

Setting

■ **Language** ■ **Clock** ■ **Controller name**

Preparation: Turn on the circuit breaker of units and then turn the power on. The remote controller starts, and wait until the [Assigning] display disappears. (If [Assigning] continues to blink for 10 minutes or more, check the address setting of indoor units.)

Note	**To return to the previous screen**

Press ⤺.

1 Press ☰.

Controller name

2 Select [Initial settings].

▲ ▼ → ↵

```
Menu                20:30 (THU)
8. Quiet operation
9. Power consumption monitor
10. Energy saving
11. Initial settings
✧ Sel. ◂▸ Page [↵]Confirm
```

3 Select the item to set.

▲ ▼ → ↵

Language

4 Set.

▲ ▼ ◄ ► → ↵

```
Language            20:30 (THU)
ENGLISH          FRANÇAIS
DEUTSCH          ITALIANO
ESPAÑOL          POLSKI
РУССКИЙ
◂✧▸Sel. [↵]Confirm
```
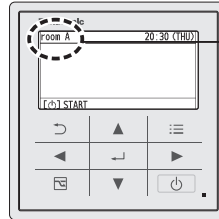
Default setting : English

Clock

4 Set.

▲ ▼ → ► → ↵
(Repeat)

```
Clock               20:30 (THU)
Year/Month/Day   Hour:Min
    ▲
 2018 /  4 / 5    20 : 30
    ▼
✧ Change  ▸  Month
```

Controller name

4 Set.

▲ ▼ ◄ ► → ↵
(Repeat the same procedure for all characters.)

■ **To change the character type**
Select the character type with
▲ ▼ ◄ ► and press ↵.

■ **To enter space**
Select [Space] with ▲ ▼ ◄ ► and press ↵.

```
RC. name:█
   ABC/abc    0-9/Other
ABCDEFGHIJKLMNOPQR Space
STUVWXYZ abcdefghi   BS
jklmnopqrstuvwxyz   Conf
◂✧▸Sel.
```

• Up to 16 characters (Space is included in the number of characters.)

■ **To delete 1 character**
Select [BS] with ▲ ▼ ◄ ► and press ↵.

5 Select [Conf].

▲ ▼ ◄ ► → ↵

```
RC. name:room A█
   ABC/abc    0-9/Other
ABCDEFGHIJKLMNOPQR Space
STUVWXYZ abcdefghi   BS
jklmnopqrstuvwxyz   Conf
◂✧▸Sel. [↵]Confirm
```

Setting

1 **Press and hold the 3 buttons for 4 seconds or more simultaneously.**

⤺, ↵, ▶

2 **Select the item to set.**

▲ ▼ → ↵

```
🔧 Maintenance func    20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC. setting mode
4. Test run
⬍ Sel. ◀▶ Page [↵]Confirm
```

Service contact

3 **Select. (Name)**

▲ ▼ → ↵

```
Service contact    20:30 (THU)
Name
      Unset                        ── Name
Contact number
      Unset                        ── Contact number
⬍ Sel. [↵]Confirm
```

4 ▲ ▼ ◀ ▶ → ↵
(Repeat the same procedure for all characters.)

```
Name:█
   ABC/abc    0-9/Other
ABCDEFGHIJKLMNOPQR Space
STUVWXYZ abcdefghi   BS
jklmnopqrstuvwxyz  Conf
◀↵▶Sel.
```

• Up to 16 characters
  (Space is included in the number of characters.)

■ **To change the character type**
Select the character type with
▲ ▼ ◀ ▶ and press ↵.

■ **To enter space**
Select [Space] with ▲ ▼ ◀ ▶ and press ↵.

■ **To delete 1 character**
Select [BS] with ▲ ▼ ◀ ▶ and press ↵.

5 **Select [Conf].**

▲ ▼ ◀ ▶ → ↵

```
Name:XXXXXXXXXXXXXXXX█
   ABC/abc    0-9/Other
ABCDEFGHIJKLMNOPQR Space
STUVWXYZ abcdefghi   BS
jklmnopqrstuvwxyz  Conf
◀▲▶Sel. [↵]Confirm
```

6 **Select on the screen for step 3.**
(Contact number)

▲ ▼ → ↵

7 ▲ ▼ ◀ ▶ → ↵
(Repeat the same procedure for all characters.)

```
Contact number:█
   █ 2 3 + -      Space
   4 5 6 ( )       BS
   7 8 9 0 ✳ #    Conf
◀↵▶Sel. [↵]Enter
```

• Up to 16 characters
  (Space is included in the number of characters.)

8 **Select [Conf].**

▲ ▼ ◀ ▶ → ↵

```
Contact number:XXXXXXXXXXXXXXXX█
   1 2 3 + -      Space
   4 5 6 ( )       BS
   7 8 9 0 ✳ #    Conf
◀▲▶Sel. [↵]Confirm
```

Setting

1 **Press and hold the 3 buttons for 4 seconds or more simultaneously.**

⮌ , ↵ , ▶

2 **Select the item to set.**

▲ ▼ → ↵

```
🔧 Maintenance func    20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC. setting mode
4. Test run
⬍ Sel. ◀ ▶ Page [↵]Confirm
```

RC. setting mode

3 **Set.**
(Select the Code no. and Set data.)

▲ ▼ → ▶ → ↵
(Repeat)

```
RC. setting mode    20:30 (THU)
    Code no.        Set data
       ▲
      01            0001
       ▼
⬍ Sel.  ▶ Next
```
Code no.   Set data

4 **Press** ⮌
● After Selecting [YES], the unit restarts.

Code no.			Set data
01	Main/sub	Set this when using 2 remote controllers.	• 0000: Sub • 0001: Main (factory setting)
02	Clock type	Set the type of clock display.	• 0000: 24 hours • 0001: 12 hours (AM/PM)
2F	Password change	Set the administrator password.	• 0000 to 9999 • 0000 (factory setting)
36	Display of operation lock cancelling method	Set whether to display the operation lock cancelling method on the lock screen while operation is locked. (For the lock screen, see the "Part Names" section in the Operating Instructions.)	• 0000: Displayed (factory setting) • 0001: Not displayed • 0002: Not displayed (password)

Detailed settings

3 **Set.**
(Select the indoor unit number, Code no. and Set data.)

▲ ▼ → ▶ → ↵
(Repeat)

```
Detailed settings    20:30 (THU)
 Unit no.  Code no.   Set data
    ▲
   1- 1      10        0001
    ▼
⬍ Sel.   ▶ Next
```
Indoor unit   Set data
number   Code no.

4 **Press** ⮌
● After Selecting [YES], the unit restarts.

Code no.			Set data
31	Vent output setting	Set this when connecting a commercially sold fan, etc. to the ventilation fan output "FAN DRIVE:2P (White)" on the indoor control board. *Dedicated cables (optional) are required.	• 0000: Not connected • 0001: Connected
32	Temp sensor setting	Set this when measuring the room temperature with the room temperature sensor of the remote controller. • When using the main and sub controllers, the main one is enabled. • When using with the remote sensor in combination, set the indoor unit setting data. *This setting is not available during group-controlling.	• 0000: Indoor unit • 0001: Remote controller
33	Temp display setting	Set the type of temperature display.	• 0000: °C • 0001: °F

Setting

■ **Auto address**   ■ **Set elec. consumption**

Auto address

3 **Set.**
(Select the Code no. [A1] and O/D unit no.)

▲ ▼ → ▶ → ↵
(Repeat)

```
Auto address        20:30 (THU)
     Code no.    O/D unit no.
       ▲
      A1            1
       ▼
 ⬍ Sel.  ▶ Next
```
Code no.   O/D unit no.

4 **Press ↩**
● After Selecting [YES], the unit restarts.

Code no.		O/D unit no.
A1	Set the Auto address for each O/D unit no. Select the O/D unit no. (outdoor unit) for Auto address.	• Outdoor unit number

┌─ **Attention** ───

● Set Auto address after all units are turned on and 90 seconds or more have passed.
● Operate the units after Auto address is set and 90 seconds or more have passed.

Set elec. consumption

3 **Set.**
(Select the power supply voltage of outdoor units.)

▲ ▼ → ↵

4 **Select [YES].**

```
Set elec.consump.   20:30 (THU)
Set voltage
              ▲
             230  V
              ▼
 ⬍ Sel. [↵]Confirm
```

┌─ **Note** ───

● Set the power supply voltage of outdoor units to calculate electric consumption of the Power consumption monitor.
● If the setting differs from the power supply voltage of outdoor units, the electric consumption value of the Power consumption monitor will differ from the actual calculation result by a power meter.
● Depending on the outdoor unit model, this cannot be set.

■ **When 3-phase model connections are used for outdoor units**

Power supply voltage	Setting value
380 V	220 V
400 V	230 V
415 V	240 V

Confirming Information

1 Press and hold the 3 buttons for 4 seconds or more simultaneously.

⤺ , ↵ , ►

2 Select the item to set.

▲ ▼ → ↵

```
🔧Maintenance func   20:30 (THU)
 2. Service contact
 3. RC. setting mode
 4. Test run
 5. Sensor info.
 ↕ Sel. ◀▶ Page [↵]Confirm
```

Sensor info.

This displays each sensor temperature of the remote controller, indoor units and outdoor units.

3 Select.
(Select the unit number.)

▲ ▼ → ►

```
Sensor info.       20:30 (THU)
 Unit no.  Code no.   Data
    ▲         00      0026
  1- 1        01      0028
    ▼         02      0026
 ↕ Sel.   ▶ Next
```

4 Confirm the content.
▲ ▼

• Pressing ⤺ will return to the Maintenance func screen.

```
Sensor info.       20:30 (THU)
 Unit no. │ Code no. │  Data  │▲
          │    00    │  0026  │
  1- 1    │    01    │  0028  │
          │    02    │  0026  │▼
 ↕ Scroll
```

Service check

This displays the alarm history.

3 Confirm the content.
▲ ▼

```
Service check      20:30 (THU)
          Unit no.    Alarm
    1       1- 1       E04
    2       1- 5       F10
    3       1- 2       P01
 ↓ Check [↵]Delete
```

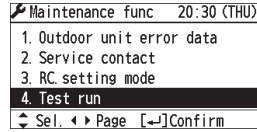Information of 4 errors is displayed.
[---] shows that no error has occurred.
• Pressing ⤺ will return to the Maintenance func screen.
• To delete the error history, press ↵ and select [YES].
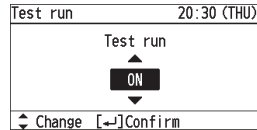
Test Operation

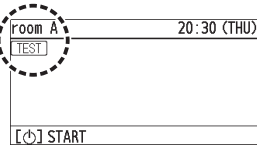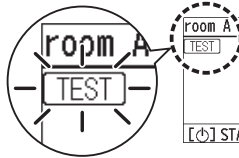**1** **Press and hold the 3 buttons for 4 seconds or more simultaneously.**

⤺, ↵, ▶

2 **Select [Test run].**

▲ ▼ → ↵

```
🔧Maintenance func    20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC. setting mode
4. Test run
↕ Sel. ◀▶Page [↵]Confirm
```

3 **Select [ON].** (The unit enters the test operation mode. Then, [TEST] turns on.)

▲ ▼ → ↵

```
Test run              20:30 (THU)
        Test run
          ▲
         ON
          ▼
↕ Change  [↵]Confirm
```

Press ⤺.

room A

TEST

```
room A                20:30 (THU)
TEST


[⏻] START
```

4 **Perform the test operation.**

⏻

```
room A                20:30 (THU)
TEST
MODE              FAN SPEED
COOL             ❀ ▂▃▅▆
❀                FLAP
```
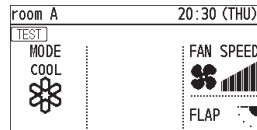
5 **Finish the test operation.**

Perform step 1 and 2, and then select [OFF] in step 3. ([TEST] display disappears.)
- The test operation can be performed in Heat or Cool mode.
- Temperature cannot be changed.
- The test operation mode is automatically turned off in 60 minutes. (To prevent continuous test operation)
- Outdoor units do not operate for approx. 3 minutes after the power is turned on or operation is stopped.

Attention

- Do not use this mode for purposes other than the test operation. (To prevent overload of the units)
- Read the installation instructions supplied with the units.