

DAIKIN ROOM AIR CONDITIONER OPERATION MANUAL





MODELS

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JTKJ12TV16UD JTKJ18TV16UD JTKJ21TV16UD

Features

Enhanced comfort and energy savings



INTELLIGENT EYE

The INTELLIGENT EYE sensor detects human movement in a room. If no one is in the room for more than 20 minutes, the operation automatically changes to energy saving operation.

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FLASH STREAMER

Streamer and filtration technologies remove airborne allergens such as mould, mites and pollen as well as adjuvant substances, viruses and bacteria. Page 18

Other functions



COANDA

Directs airflow upward. This function prevents air from blowing directly at users. Page 14



OUTDOOR UNIT QUIET

▶Page 14

OUTDOOR UNIT QUIET operation assures a low noise level of the outdoor unit. This function is useful to maintain a quiet neighbourhood. Page 17



ECONO

ECONO

This function enables efficient operation by limiting the maximum power consumption. It is useful when using the air conditioner and other electrical devices simultaneously on a shared electrical circuit. Fage 17

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Care

Care and	Cleaning
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Troubleshooting

Troubleshooting27

Safety Precautions

- . Keep this manual where the user can easily find it.
- · Read the precautions in this manual carefully before operating the unit.
- . The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.

/ WARNING

Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION

Failure to follow these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

Never attempt.



Be sure to establish an earth connection.

· After reading, keep this manual in a convenient place so that you can refer to it whenever necessary. If the equipment is transferred to a new user, be sure also to hand over the manual.

WARNING /!\



- · Be aware that prolonged, direct exposure to cool air from the air conditioner, or to air that is too cool, can be harmful to your physical condition and health.
- . Do not place objects, including rods, your fingers, etc., in the air inlet or outlet. Product damage may result due to contact with the air conditioner's high-speed fan blades.
- · Do not attempt to repair, dismantle, reinstall or modify the air conditioner yourself as this may result in water leakage, electric shock or fire hazards.
- · Do not use flammable spray near the air conditioner, or otherwise fire may result.
- . Do not use a refrigerant other than the one indicated on the outdoor unit (R32) when installing, moving or repairing. Using other refrigerants may cause trouble or damage to the unit, and personal injury.
- To avoid electric shock, do not operate with wet hands.
- · Beware of fire in case of refrigerant leakage. If the air conditioner is not operating correctly, i.e. not generating cool air, refrigerant leakage could be the cause. Consult your service centre for assistance. The refrigerant within the air conditioner is safe and normally does not leak. However, in the event of a leakage, contact with a naked burner,

heater or cooker may result in generation of noxious gas. Do not use the air conditioner until a qualified service person confirms that the leakage has been repaired.

- Do not attempt to install or repair the air conditioner yourself. Improper workmanship may result in water leakage, electric shock or fire hazards. Please contact your local service centre or qualified personnel for installation and maintenance work.
- . If the air conditioner is malfunctioning (giving off a burning odour, etc.), turn off power to the unit and contact your local service centre. Continued operation under such circumstances may result in a failure, electric shock or fire hazards.
- · Be sure to install an earth leakage circuit breaker. Failure to install the earth leakage circuit breaker may result in electric shock or fire.
- . Be sure to earth the unit. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shock.



A CAUTION =

- · Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- · Do not expose plants or animals directly to the airflow from the unit as this may cause adverse effects.
- Do not place appliances that produce naked flames in places exposed to the airflow from the unit as this may impair combustion of the burner.
- . Do not block the air inlets or outlets. Impaired airflow may result in insufficient performance or trouble.
- Do not sit on the outdoor unit, put things on the unit, or pull the unit. Doing so may cause accidents, such as falling or toppling down, thus resulting in injury, product malfunctioning, or product damage.
- Do not place objects that are susceptible to moisture directly beneath the indoor or outdoor units. Under certain conditions, condensation on the main unit or refrigerant pipes, air filter dirt or drain blockage may cause dripping, resulting in fouling or failure of the object concerned.
- After prolonged use, check the unit stand and its mounts for damage. If they are left in a damaged condition, the unit may fall and cause injury.
- . To avoid injury, do not touch the air inlet or aluminium fins of the indoor or outdoor units.
- . The appliance is not intended for use by unattended young children or infirm persons. Impairment of bodily functions and harm to health may result.
- · Children should be supervised to ensure that they 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.
- · Avoid impacts to the indoor and outdoor units, or otherwise product damage may result.
- Do not place flammable items, such as spray cans, within 1m of the air outlet. The spray cans may explode as a result of hot air from the indoor or outdoor units.
- · Be careful not to let pets urinate on the air conditioner. Urination on the air conditioner may result in electric shock or fire.
- . Do not wash the air conditioner with water, as this may result in electric shock or fire.
- . Do not place water containers (vases, etc.) above the unit, as this may result in electric shock or fire hazards if they should topple over.
- Do not insert the batteries in the wrong polarity (+/-) orientation as this may result in short circuiting, fire, or battery leakage.
- . To avoid oxygen depletion, ensure that the room is adequately ventilated if equipment such as a burner is used together with the air conditioner.

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- · Before cleaning, be sure to stop unit operation and turn off the circuit breaker. Otherwise, an electric shock and injury may result.
- Only connect the air conditioner to the specified power supply circuit. Power supplies other than the one specified may result in electric shock, overheating and fires.
- · Arrange the drain hose to ensure smooth drainage. Imperfect drainage may cause wetting of the building, furniture, etc.
- . Do not place objects in direct proximity of the outdoor unit and do not let leaves and other debris accumulate around the unit. Leaves are a hotbed for small animals which can enter the unit. Once inside the unit, such animals can cause malfunctions, smoke or fire if they come into contact with electrical parts.
- Do not place objects around the indoor unit. Doing so may have an adverse influence on the performance, product quality, and life of the air conditioner.
- . This appliance is not intended to be used by persons with reduced physical, sensory or mental capabilities, or with lack of operation knowledge, unless they have been given supervision or instruction concerning the appliance use by person responsible for their safety. Keep out of children's reach to ensure that they do not play with the appliance.

FTPK008-IN



Name of Parts

Indoor Unit



Outdoor Unit



Appearance of the indoor/outdoor unit may differ between different models.

- 1. Front panel
- 2. Air inlet

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- 3. Air filter
- 4. Accessory filter
- 5. Streamer unit
- 6. Model name plate
- 7. Indoor temperature sensor:
 - Detects the air temperature around the unit.
- 8. Display
- 9. Air outlet
- 10. Louvres (vertical blades):
 - The louvres are inside of the air outlet. Page 11
- 11. Flaps (horizontal blades) (Page 11)
- 12. Signal receiver:
 - Receives signals from the remote controller.
 - When the unit receives a signal, you will hear a beep sound.

Case	Sound type
Operation start	beep-beep
Settings changed	beep
Operation stop	long beep

- 13. Inverter output and temperature display Page 10
- 14. OPERATION lamp (green)
- 15. TIMER lamp (orange) (>Page 19-21)
- 16. INTELLIGENT EYE lamp (green) Page 15
- 17. INTELLIGENT EYE sensor Page 14
- 18. Indoor unit ON/OFF switch:
 - Press this switch once to start operation. Press once again to stop it.
 - For the operation mode setting, refer to the following table.

Mode	Temperature setting	Airflow rate
COOL	22°C	AUTO

- This switch can be used when the remote controller is missing.
- 19. Air inlet (back and side)
- 20. Outdoor temperature sensor (back)
- 21. Refrigerant pipes and inter-unit wire
- 22. Drain hose
- 23. Earth terminal (inside)
- 24. Model name plate
- 25. Air outlet

Name of Parts

Remote Controller



1. Signal transmitter:

- · Sends signals to the indoor unit.
- 2. Display (LCD):

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- Displays the current setting. (In this illustration, each section is shown with its displays on for the purpose of explanation.)
- 3. TEMPERATURE adjustment button:
 - Changes the temperature setting. Prage 9
- 4. ON/OFF button:
 - Press this button once to start operation.
 Press once again to stop it. Prage B
- 5. ECONO/QUIET button Page 17
- 6. SWING button:
 - Adjusts the airflow direction. Page 11
- 7. CHILD LOCK button Page 22
- 8. BACKLIGHT button Page 7
- 9. ON TIMER button Page 19
- 10. CLOCK button Page7
- 11. Front cover:
 - Open the front cover.
- 12. DISPLAY button Page 10
- 13. POWER CHILL button Page 13
- 14. MODE selector button:
 - Selects the operation mode. (DRY/COOL/FAN) Page 8
- 15. FAN setting button:
 - Selects the airflow rate setting. Page 12
- 16. COANDA/SENSOR button Prage 15
- 17. STREAMER button Page 18
- 18. GOOD SLEEP OFF TIMER button (>Page 21)
- 19. OFF TIMER button (NIGHT SET mode) Page 20
- 20. TIMER CANCEL button:
 - Cancels the timer setting. Page 19-21.
- 21. SELECT button:
 - Changes the clock, ON/OFF TIMER and GOOD SLEEP OFF TIMER settings.

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Preparation before Operation

Incorrect handling of batteries can result in injury from battery leakage, rupturing or heating, or lead to equipment failure. Please observe the following precautions and use safely.

- If the solution from the batteries should get in the eyes, do not rub the eyes. Instead, immediately flush the eyes with tap water and seek the attention of a medical professional.
- Keep batteries out of reach of children. In the event that batteries are swallowed, seek the immediate attention of a medical professional.
- Do not expose batteries to heat or fire. Do not disassemble or modify batteries. The insulation or gas release vent inside the battery may be damaged, resulting in battery leakage, rupturing, or heating.
- · Do not damage or peel off labels on the batteries.





Accessory filter

To insert the batteries

- 1. Slide the front cover to take it off.
- 2. Insert 2 dry batteries (AAA).
- 3. Set the front cover as before.

To attach the remote controller holder to a wall

- 1. Choose a place from where the signals reach the unit.
- 2. Attach the holder to a wall, a pillar, or similar location with the screws supplied with the holder.
- 3. Place the remote controller in the remote controller holder.

■ To attach the accessory filter

- Set the accessory filter under the tabs of the streamer unit. Filter type: Micro-filter
- When attaching the accessory filter, refer to "Care and Cleaning", and pull out the air filters. Page 23, 24

Turn on the circuit breaker

 After the power is turned on, the flaps of the indoor unit open and close once to set the reference position.

NOTE

Notes on batteries

- · Do not use a leaking battery.
- To avoid possible injury or damage from battery leakage or rupturing, remove the batteries when not using the product for long periods of time.
- The standard replacement time is about 1 year. Both batteries should be replaced at the same time. Be sure to replace them with new size AAA dry batteries.
- When battery power has run out, " ⊄ " will begin blinking on the LCD as an alert that the batteries need replacing. In some cases, when battery consumption is accelerated owing usage conditions, signal reception may decline before the LCD begins blinking.
- The batteries supplied with the remote controller are for initial operation. The batteries may run out in less than 1 year.

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Preparation before Operation

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To set the clock



To set the BACKLIGHT

- Turning off the LCD backlight reduces battery consumption. (Default: on) BACKLIGHT
- 1. Press for about 2 seconds.
 - Pressing the button for about 2 seconds switches the backlight ON/OFF.
 When it is switched off, the backlight goes out.
 When it is switched on, the backlight comes on.



To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there
 is anything blocking the signals between the unit and the remote controller,
 such as a curtain, the unit will not operate.
- . Do not drop the remote controller. Do not get it wet.
- The maximum transmission distance is about 7m.

NOTE

Notes on remote controller

- · Never expose the remote controller to direct sunlight.
- Dust on the signal transmitter or receiver will reduce the sensitivity. Wipe off dust with soft cloth.
- Signal communication may be disabled if an electronic-starter-type fluorescent lamp (such as inverter-type lamp) is in the room. Consult your service centre if that is the case.
- · If the remote controller activates other electric devices, move them away or consult your service centre.

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DRY · COOL · FAN Operation

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The air conditioner operates with the operation mode of your choice. From the next time on, the air conditioner will operate with the same operation mode.

■ To start operation

- 1. Press MODE and select an operation mode.
 - Each pressing of the button changes the mode setting in sequence.





- "ON" is displayed on the LCD.
- The OPERATION lamp lights green.



■ To stop operation

- 1. Press 🕘 again.
 - "GIN" disappears from the LCD.
 - The OPERATION lamp goes off.
 - All the indications disappear from the LCD. When the timer is set, the timer indication remains on the LCD.

NOTE

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Note on COOL operation

 This air conditioner cools the room by releasing heat in the room outdoors. Therefore, cooling performance may fall in higher outdoor temperatures.

Note on DRY operation

• Eliminates humidity while maintaining the indoor temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.

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Note on FAN operation

• This mode is valid for fan only.

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Adjusting the Temperature

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To change the temperature setting

- 1. Press
 - Press A to raise the temperature and press V to lower the temperature.

COOL operation	DRY or FAN operation
18-32°C	The temperature setting cannot be changed.



NOTE

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Recommended temperature setting

• For cooling: 26-28°C

- Notes on the operating conditions
 - . The air conditioner always consumes a small amount of electricity even while it is not operating.
 - . If you are not going to use the air conditioner for a long period, turn off the circuit breaker.

· Operation outside the humidity or temperature range described in the table may cause a safety device to disable the system.

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature: 10-50°C Indoor temperature: 18-32°C Indoor humidity: 80% max.	 A safety device may activate to stop the operation. Dew may form on the indoor unit and drip from it when
DRY		COOL or DRY operation is selected.

Tips for saving energy

- Be careful not to cool the room too much. Keeping the temperature setting at a moderate level helps save energy.
- Cover windows with a blind or a curtain. Blocking sunlight and air from outdoors increases the cooling effect.
- Clogged air filters cause inefficient operation and waste energy. Clean them once in about every 2 weeks.

Checking the Inverter Output and Temperature Display

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Inverter output and temperature display

The inverter output and temperature display for the indoor unit shows the current inverter output, indoor temperature, and set temperature.

Checking current inverter output, indoor temperature and set temperature when the air conditioner is in operation

1. Press

- s 🔳 during operation.
- Each press of cycles the display through current inverter output, indoor temperature, and set temperature.



- Inverter output serves as an estimate of power consumption. (where rated power consumption is 100%)
- There is a " . " (dot) after the set temperature figure.
- Inverter output does not display when the unit is in FAN operation.
- Set temperature does not display when the unit is in DRY operation or FAN operation.
- Inverter output and set temperature may not display depending on the operation mode that is active.
- The display turns off when the unit is turned off.

Checking current indoor temperature when the air conditioner is off

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- 1. Press 🔎 when the air conditioner is off.
 - The current indoor temperature displays.

· Press the button again to turn off the display.

NOTE

- Note on the inverter output and temperature display
 - "F.L." displays as inverter output when the rated power consumption is exceeded.
 " - " may display for a short while after the air conditioner is turned on or at other times.
 - · Inverter output may be low at times for the purposes of protecting the product.
 - When the unit is operated using another device, such as a wired remote controller or smartphone, the set temperature displayed may not match the set temperature on the remote controller.
 - An error code will display if the air conditioner fails to operate when turned on. Consult your service centre. Refer to the error code table in "Troubleshooting". >Page 30.





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Adjusting the Airflow Direction

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You can adjust the airflow direction to increase your comfort.

- Always use a remote controller to adjust the angles of the flaps and louvres.
- If you attempt to move the flaps and louvres forcibly by hand when they are swinging, the mechanism may be damaged.
- Inside the air outlet, a fan is rotating at a high speed.

To start auto swing

Up and down airflow direction

1. Press 🤇 🦪 .

- " 🕼 " is displayed on the LCD.
- The flaps (horizontal blades) will begin to swing.

Right and left airflow direction

- 1. Press 🦔 🥾 .

 - The louvres (vertical blades) will begin to swing.



- 1. Press 🤇 🌂 🗋 and 🕻 🛲 .
 - "(# and " e isplayed on the LCD.
 - The flaps and louvres move in turn.
 - To cancel 3-D airflow, press either a or again. The flaps or louvres will stop moving.

■ To set the flaps or louvres at desired position

- This function is effective while the flaps or louvres are in auto swing mode.
- 1. Press and when the flaps or louvres reach the desired position.
 - In the 3-D airflow, the flaps and louvres move in turn.
 - "Q" or " " disappears from the LCD.

NOTE

Note on 3-D airflow

 Using 3-D airflow circulates cold air, which tends to collect at the bottom of the room, throughout the room, preventing areas of cold developing.











Adjusting the Airflow Rate / SMELL PROOF Operation

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Adjusting the airflow rate

You can adjust the airflow rate to increase your comfort.

To change the airflow rate setting

- 1. Press (FAN).
 - Each pressing of erm changes the airflow rate setting in sequence.



- When the airflow is set to " <u>★</u> ", quiet operation starts and noise from the indoor unit will become quieter.
- In the quiet operation mode, the airflow rate is set to a weak level.
- In DRY operation, the airflow rate setting cannot be changed.

SMELL PROOF operation

The SMELL PROOF operation prevents unpleasant odour inside the indoor unit. This function is available in both DRY and COOL operation.

■ To use SMELL PROOF operation

- 1. Before starting the operation, press I FAN to set to AUTO.
- 2. Press MODE to select the DRY or COOL operation.
- 3. Press 🕚

ON/OFF

 Air starts circulating about 1 minute after the operation is started. However, if the POWER CHILL operation is started, air starts circulating immediately.

■ To cancel SMELL PROOF operation

1. Change the airflow rate setting to a setting other than AUTO.

NOTE

- Note on airflow rate setting
 - At smaller airflow rates, the cooling effect is also smaller.
- Note on SMELL PROOF operation
 - SMELL PROOF operation can prevent some odours, but not all.

POWER CHILL Operation

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POWER CHILL operation quickly maximises the cooling effect in any operation mode. In this mode, the air conditioner operates at maximum capacity.

To start POWER CHILL operation



1. Press WHERCHILL during operation.

- """ is displayed on the LCD.
- POWER CHILL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWER CHILL operation.

To cancel POWER CHILL operation



• "+" disappears from the LCD.

[Example]



NOTE

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Notes on POWER CHILL operation

- · When POWER CHILL operation is started, the flaps turn downward, allowing the air to blow directly onto people. When the up and down airflow direction is set to auto swing, the flaps move in auto swing mode.
- When using POWER CHILL operation, there are some functions which are not available.
- POWER CHILL operation cannot be used together with ECONO and OUTDOOR UNIT QUIET operation. Priority is given to the function of whichever button is pressed last.
- POWER CHILL operation can only be set when the unit is running. Pressing ((b) causes the settings to be cancelled, and "*** disappears from the LCD.
- · POWER CHILL operation will not increase the capacity of the air conditioner if the air conditioner is already in operation with its maximum capacity demonstrated.
- In COOL operation To maximise the cooling effect, the capacity of outdoor unit is increased and the airflow rate becomes fixed at the maximum setting.
- The temperature and airflow settings cannot be changed.
- In DRY operation The temperature setting is lowered by 2.5°C and the airflow rate is slightly increased.
- In FAN operation
 - The airflow rate is fixed at the maximum setting.

COANDA / INTELLIGENT EYE Operation

■ COANDA operation

Directs airflow upward. This function prevents air from blowing directly at users.



INTELLIGENT EYE operation

The INTELLIGENT EYE sensor detects human movement. If no one is in the room for more than 20 minutes, the operation automatically changes to energy saving operation.

[Example]



INTELLIGENT EYE operation is useful for energy saving

Energy saving operation

- If no presence detected in the room for 20 minutes, the energy saving operation will start, and the INTELLIGENT EYE lamp goes off.
- If human movement is detected again, the INTELLIGENT EYE lamp lights up and energy saving operation terminates. • This operation changes the temperature by +2°C in COOL / +2°C in DRY operation from the set temperature.
- When the room temperature exceeds 30°C, the operation changes the temperature by +1°C in COOL / +1°C in DRY operation from the set temperature.
- This operation decreases the airflow rate slightly in FAN operation only.

■ Combination COANDA and INTELLIGENT EYE operation

The air conditioner can go into operation with the COANDA and INTELLIGENT EYE operations combined.

COANDA / INTELLIGENT EYE Operation

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■ To start operation

COANDA/SENSOR

- 1. Press (and select the desired mode.
 - Each time (***** is pressed a different setting option is displayed on the LCD.
 - When INTELLIGENT EYE is selected, the INTELLIGENT EYE lamp lights green.





• When the flaps (horizontal blades) are swinging, selecting any of the modes above will cause the flaps (horizontal blades) to stop.

To cancel operation

COANDA/SENSOR

- 1. Press (1/2) and select "blank" on the LCD.
 - The INTELLIGENT EYE lamp goes off.

Display	Operation mode	Explanation
£	COANDA	The flaps will adjust the airflow direction upward. Page 14
£ª	INTELLIGENT EYE	The sensor will detect the movement of people in the sensing area. When there are no people in the sensing area, the air conditioner will go into energy-saving mode.
* •**	COANDA and INTELLIGENT EYE	The air conditioner will be in COANDA operation combined with INTELLIGENT EYE operation.
Blank	No function	

To combine COANDA and POWER CHILL operation

When POWER CHILL operation is started during COANDA operation, the flaps turn downward, allowing the air to blow directly onto people. The combination of COANDA and POWER CHILL operations provides sufficient cooling performance to quickly cool down the room.



- After POWER CHILL operation is finished, the air conditioner automatically returns to COANDA operation.
- Pressing during POWER CHILL operation prevents the air from blowing directly onto people while keeping POWER CHILL operation running.

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COANDA / INTELLIGENT EYE Operation

A CAUTION -

- Do not place large objects near the INTELLIGENT EYE sensor.
- Also keep heating units or humidifiers outside the sensor's detection area. This sensor can detect undesirable objects.
- Do not hit or violently push the INTELLIGENT EYE sensor. This can lead to damage and malfunction.

NOTE

Notes on COANDA operation

• If the up and down airflow direction is selected, the COANDA operation will be cancelled. Priority is given to the function of whichever button is pressed last.

Notes on INTELLIGENT EYE operation

Application range is as follows.



 If no people are detected in the sensing area for 20 minutes, the air conditioner switches to the energy-saving mode with the set temperature shifted by 2°C.

The air conditioner may switch to the energy-saving operation even if there are people in the area.

- This may occur depending on the clothes the people are wearing if there is no movement of the people in the area.
- The sensor may not detect moving objects further than 7m away. (Please see the application range)
- Sensor detection sensitivity changes according to the indoor unit location, the speed of passers-by, temperature range, etc.
- The sensor could also mistakenly detect pets, sunlight, fluttering curtains and light reflected off of mirrors as passers-by.
- When the right and left airflow direction is set to auto swing during INTELLIGENT EYE operation, the louvres move in auto swing mode. Even under these conditions, energy saving operation is in effect.

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ECONO / OUTDOOR UNIT QUIET Operation

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ECONO operation

ECONO operation enables efficient operation by limiting the maximum power consumption.

This function is useful to prevent the circuit breaker from tripping when the unit operates alongside other appliances on the same circuit.

■ OUTDOOR UNIT QUIET operation

OUTDOOR UNIT QUIET operation lowers the noise level of the outdoor unit by changing the frequency and fan speed of the outdoor unit. This function is convenient during the night-time operation.

To start operation

ECONO/QUIET

- 1. Press 5/2 and select the desired mode.
 - Each time is pressed, a different setting option is displayed on the LCD.



To cancel operation

ECONO/QUIET

1. Press 🔽 🕼 until no icon is displayed.

NOTE

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Notes on ECONO operation

- ECONO operation can only be set when the unit is running. Pressing (b) causes the settings to be cancelled, and "
 disappears from the LCD.
- ECONO operation is a function which enables efficient operation by limiting the power consumption of the outdoor unit.
- ECONO operation functions in COOL and DRY operation.
- POWER CHILL and ECONO operation cannot be used at the same time. Priority is given to the function of whichever button is pressed last.
- If the power consumption level is already low, switching to ECONO operation will not reduce the power consumption.
- This operation is performed with lower power and therefore may not provide a sufficient cooling effect.

Notes on OUTDOOR UNIT QUIET operation

- This function is available in COOL operation.
 This is not available in FAN and DRY operation.
- POWER CHILL operation and OUTDOOR UNIT QUIET operation cannot be used at the same time.
 Priority is given to the function of whichever button is pressed last.
- Even if the operation is stopped by using the remote controller or the indoor unit ON/OFF switch when using OUTDOOR UNIT QUIET operation, "120" will remain displayed on the remote controller.
- OUTDOOR UNIT QUET operation will not reduce the frequency nor fan speed if they already are operating at reduced levels.
- This operation is performed with lower power and therefore may not provide a sufficient cooling effect.

FLASH STREAMER AIR PURIFYING Operation



The absorption power of the accessory filter and the decomposition power of the streamer discharge combine to reduce unpleasant odours and viruses, cleaning the air in the room.

■ To start operation



- " < " is displayed on the LCD.
- The air in the room is being cleaned.

V

To stop operation

1. Press

- " < " disappears from the LCD.
- The streamer will stop operating.

NOTE

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What is streamer discharge?

- This is a type of plasma discharge comprising high-speed electrons with a high oxidative capacity that is released within the unit. It decomposes odours and harmful gases.
- (The high-speed electrons are generated and then adsorbed within the unit to ensure your safety.)
- The streamer discharge may generate a hissing sound, however, this does not indicate a defect.

Note on FLASH STREAMER AIR PURIFYING operation

 When airflow is weak during operation, the streamer discharge may stop temporarily to prevent the emission of trace amounts of ozone from the air outlet.

ON/OFF TIMER Operation



Timer functions are useful for automatically switching the air conditioner on or off in the morning or at night. You can also use the ON TIMER and OFF TIMER

To use ON TIMER operation

 Check that the clock is correct. If not, set the clock to the present time. Page 7

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ON



• " 500 " is displayed on the LCD. • " on " blinks.

- - until the time setting reaches the point you like.
- Each pressing of either button increases or decreases the time setting by 10 minutes. Holding down either button changes the setting rapidly. ON
- 3. Press 📃 again.
 - " ON " and setting time are displayed on the LCD.
 - The TIMER lamp lights orange. ▶Page 4



Display

To cancel ON TIMER operation

- CANCEL
- 1. Press
 - " ON " and setting time disappear from the LCD.

 - The TIMER lamp goes off.

NOTE

- Notes on TIMER operation
 - When TIMER is set, the present time is not displayed.
 - Once you set ON/OFF TIMER, the time setting is kept in the memory. The memory is cleared when the remote controller batteries are replaced.
 - When using the ON/OFF TIMER to start/stop operation, the actual operation start/stop time may differ from the time set. (Maximum of about 10 minutes)

In the following cases, set the timer again.

- After the circuit breaker has turned off.
- After a power failure.
- After replacing the batteries in the remote controller.

ON OFF ON/OFF TIMER Operation

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■ To cancel OFF TIMER operation

1. Press

- " OFF " and setting time disappear from the LCD.
- "
 "
 is displayed on the LCD.
- The TIMER lamp goes off.

■ To combine ON TIMER and OFF TIMER

A sample setting for combining the 2 timers is shown below.



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GOOD SLEEP OFF TIMER Operation

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Setting the CHILD LOCK disables all the buttons except the CHILD LOCK button.

This function prevents children from operating the remote controller by mistake.

■ To set the CHILD LOCK

1. Press (IDLCCK) for about 2 seconds.

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- "ma" is displayed on the LCD.
- If a button is pressed while CHILD LOCK is on, "a" blinks.

To cancel the CHILD LOCK

- 1. Press for about 2 seconds again.
 - "
 a" disappears from the LCD.

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Care and Cleaning

\Lambda CAUTION –

- · Before cleaning, be sure to stop the operation and turn off the circuit breaker.
- . Do not touch the aluminium fins of the indoor unit. If you touch those parts, this may cause an injury.
- . When removing or attaching the front panel, stand on a solid, stable base and take care not to fall.
- . When removing or attaching the front panel, support the panel securely with your hand to prevent it from falling.

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Units

Indoor unit and remote controller

1. Wipe them with a dry soft cloth.

Front panel

- 1. Open the front panel.
 - Hold the front panel by the indentations in the unit and open the front panel.

2. Remove the front panel.

- Slide the front panel to either the left or right and pull it toward you to disengage one of the front panel shafts.
- Disengage the front panel shaft on the other side in the same manner.
- After disengaging both front panel shafts, pull the front panel toward yourself and remove it.

3. Clean the front panel.

- Wipe it with a soft damp cloth.
- Only neutral detergent may be used.
- In case of washing the panel with water, wipe it with a dry soft cloth, and let it dry in the shade after washing.

4. Attach the front panel.

- Align the front panel shaft on the left and right of the front panel with the grooves, then push them all the way in.
- 2) Close the front panel slowly.
- 3) Press the front panel at both sides and the centre.
- After cleaning, make sure that the front panel is securely fixed.

NOTE

For cleaning, do not use any of the following:

- Water hotter than 40°C
- Volatile liquid such as benzene, petrol and thinner
- · Polishing compounds
- Rough materials such as a scrubbing brush







Care and Cleaning

Air filter

1. Pull out the air filters.

- · Open the front panel.
- Push the filter tab at the centre of each air filter a little upwards, then pull it down.

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- 2. Wash the air filters with water or clean them with a vacuum cleaner.
 - It is recommended to clean the air filters every 2 weeks.
 - If the dust does not come off easily, wash them with neutral detergent thinned with lukewarm water, then let them dry in the shade.
- 3. Reattach the filters and close the front panel.
 - Insert the filters into slots of the front grille. Close the front panel slowly and push the panel at the 3 points.





Accessory filter for streamer unit | Filter type: Micro-filter

[Maintenance]

The accessory filter can be renewed by cleaning it with a vacuum cleaner once every 6 months. We recommend replacing it once every 6.5 years.

1. Take off the accessory filter.

- 1) Open the front panel and pull out the air filters.
- 2) Take off the accessory filter.
 - Remove the accessory filter from the tabs.



Accessory filter

2. Vacuum dust.

• Do not wash the accessory filter as this will reduce its efficiency.



[Replacement]

1. Replace the old accessory filter with a new accessory filter.



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Care and Cleaning

Prior to a long period of non-use

1. Operate the FAN mode for several hours on a fine day to dry out the inside.

1) Press (MODE) and select FAN operation.

2) Press (b) and start the operation.

2. After operation stops, turn off the circuit breaker for the room air conditioner.

3. Clean the air filters and set them again.

4. To prevent battery leakage, take out the batteries from the remote controller.

We recommend periodical maintenance.

In certain operating conditions, the inside of the air conditioner may get foul after several seasons of use, resulting in poor performance. It is recommended to have periodical maintenance by a specialist in addition to regular cleaning by the user. For specialist maintenance, please contact your service centre.

The maintenance cost must be borne by the user.

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These cases are not problems.

The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

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Case	Explanation
 Operation does not start soon. When "ON/OFF" button was pressed soon after operation was stopped. When the mode was reselected. 	 This is to protect the air conditioner. You should wait for about 3 minutes.
Alr does not come out.	 If the operation is started when the airflow setting is "Auto", the SMELL PROOF operation starts running to prevent unpleasant odour inside the indoor unit. Wait for about 1 minute. (Except when POWER CHILL operation is set.) Prage 12
The flaps do not start swinging immediately.	 The air conditioner is adjusting the position of the flaps. The flaps will start moving soon.
Operation stopped suddenly. (OPERATION lamp is on.)	 To protect the system, the air conditioner may stop operating after sudden large voltage fluctuations. It automatically resumes operation in about 3 minutes. Voltage range protection: 130V-265V
A sound is heard.	 A sound like flowing water This sound is generated because the refrigerant in the air conditioner is flowing. This is a pumping sound of the water in the air conditioner and can be heard when the water is pumped out from the air conditioner during COOL or DRY operation. Blowing sound This sound is generated when the flow of the refrigerant in the air
	 conditioner is switched over. Ticking sound This sound is generated when the cabinet and frame of the air conditioner slightly expand or shrink as a result of temperature changes.
	 Clopping sound This sound is heard from the inside of the air conditioner when the exhaust fan is activated while the room doors are closed. Open the window or turn off the exhaust fan.
The outdoor unit emits water or steam.	 In COOL or DRY operation Moisture in the air condenses into water on the cool surface of the outdoor unit piping and drips.
The INTELLIGENT EYE sensor does not respond.	 The sensor is warming up for about 2 minutes after the power is turned on. Wait for a while. The sensor may not recognise small movements such as those made by sleeping persons or small children. The sensor may not work well if the indoor temperature is high. The sensor may not work well if the lens part of the INTELLIGENT EYE sensor is dirty. Clean it with a soft, dry cloth. In the event of a power failure, the position of the louvres is reset. Then, once the sensor detects the movement of people again, it directs the louvres at the area detected.
Mist comes out of the indoor unit.	 This happens when the air in the room is cooled into mist by the cold airflow during COOL operation.
The indoor unit gives out odour.	 The room odour absorbed in the unit is discharged with the airflow. We recommend you to have the indoor unit cleaned. Please consult your service centre.

Case	Explanation
The outdoor fan rotates while the alr conditioner is not in operation.	 Immediately after the air conditioner is stopped: The outdoor unit fan continues rotating for about another 1 minute to protect the system.
	 While the air conditioner is not in operation: When the outdoor temperature is high, the outdoor unit fan may start rotating to protect the system.
Remote controller does not work properly.	 No remote controller signals are displayed. The remote controller sensitivity is low. The display is low in contrast or blacked out.
	 The display runs out of control. The batteries are dying and the remote controller is malfunctioning. Replace both batteries with new, dry batteries (AAA). For details, refer to "To Insert the batteries" of this manual. Page 6

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Check again.

Please check again before requesting repairs.

Case	Explanation
The air conditioner does not operate. (OPERATION lamp is off.)	 Has the circuit breaker been tripped or the fuse blown? Is there a power failure? Are batteries set in the remote controller? Is the timer setting correct?
The room does not cool down.	 Is the airflow rate setting appropriate? If the airflow rate setting is too low, increase it. Is the set temperature appropriate? Is the adjustment of the airflow direction appropriate? Are the air filters dirty? Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? Is a window or door open? Is the air conditioner in ECONO operation or GOOD SLEEP OFF TIMER operation?
Operation stops suddenly. (OPERATION lamp is blinking.)	 Are the air filters dirty? Clean the air filters. Is there anything blocking the air inlet or air outlet of the indoor unit or outdoor unit? Stop operation and after turning off the circuit breaker, remove the obstruc- tion. Then restart operation with the remote controller. If the OPERATION lamp is still blinking, check the error code and consult your service centre.
An abnormal functioning happens during operation.	• The air conditioner may malfunction with lightning or radio waves. Turn off the circuit breaker, turn it on again and try operating the air conditioner with the remote controller.

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Call your service centre immediately.

\Lambda WARNING

- When an abnormality (such as a burning smell) occurs, stop operation and turn off the circuit breaker. Continued operation in an abnormal condition may result in problems, electric shock or fire. Consult your service centre.
- Do not attempt to repair or modify the air conditioner by yourself. Incorrect work may result in electric shock or fire. Consult your service centre.

If one of the following symptoms takes place, call your service centre immediately.

- The power cord is abnormally hot or damaged.
- An abnormal sound is heard during operation.
- The circuit breaker, a fuse, or the earth leakage circuit breaker cuts off the operation frequently.
- A switch or a button often fails to work properly.
- There is a burning smell.
- Water leaks from the indoor unit.

 Turn off the circuit breaker and call your service centre.

After a power failure

The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.

Lightning

If there is a risk lightning could strike in the neighbourhood, stop operation and turn off the circuit breaker to protect the system.

Disposal requirements



Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste.

Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other parts must be done by a qualified installer in accordance with relevant local and national legislation.

Air conditioners must be treated at a specialized treatment facility for re-use, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information.

Batteries must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.



Fault diagnosis by remote controller

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The remote controller can receive relevant error codes from the indoor unit.

1. When \bigcirc Is held down for about 5 seconds, " 0 " blinks in the temperature display section.

2. Press _____ repeatedly until a long beep is produced.

• The code indication changes as shown below, and notifies with a long beep.

	CODE	MEANING			
SYSTEM	00	NORMAL			
	UA	INDOOR-OUTDOOR UNIT COMBINATION FAULT			
	UO	REFRIGERANT SHORTAGE			
	U2	DROP VOLTAGE OR MAIN CIRCUIT OVERVOLTAGE			
	U4	FAILURE OF TRANSMISSION (BETWEEN INDOOR UNIT AND OUTDOOR UNIT)			
	A1	INDOOR PCB DEFECTIVENESS			
INDOOD	A5	FREEZE-UP PROTECTOR			
INDOOR UNIT	A6	FAN MOTOR FAULT			
ONIT	C4	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR			
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR			
	E1	CIRCUIT BOARD FAULT			
	E5	OL STARTED			
	E6	FAULTY COMPRESSOR START UP			
	E7	DC FAN MOTOR FAULT			
	EB	OVERCURRENT INPUT			
	F3	HIGH TEMPERATURE DISCHARGE PIPE CONTROL			
	F6	HIGH PRESSURE CONTROL (IN COOLING)			
	F8	OPERATION HALT DUE TO COMPRESSOR INTERNAL TEMPERATURE ABNORMALITY			
OUTDOOR UNIT	HO	SENSOR FAULT			
	H6	OPERATION HALT DUE TO FAULTY POSITION DETECTION SENSOR			
	H8	DC CURRENT SENSOR FAULT			
	H9	FAULTY SUCTION AIR TEMPERATURE SENSOR			
	J3	FAULTY DISCHARGE PIPE TEMPERATURE SENSOR			
	J6	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR			
	L3	ELECTRICAL PARTS HEAT FAULT			
	L4	HIGH TEMPERATURE AT INVERTER CIRCUIT HEATSINK			
	LS	OUTPUT OVERCURRENT			
	P4	FAULTY INVERTER CIRCUIT HEATSINK TEMPERATURE SENSOR			

NOTE

• A short beep indicates non-corresponding codes.

- To cancel the code display, hold down for about 5 seconds.
 The code display also cancels itself if the button is not pressed for 1 minute.

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Quick Reference

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DAIKIN

3P495279-15F M19P059A

DAIKIN AIR CONDITIONER INSTALLATION MANUAL

R32 Split Series *(INVERTER)*

Safety Precautions

 The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail. Meaning of WARNING and CAUTION notices
WARNING Failure to follow these instructions properly may result in personal injury or loss of life.
CAUTION Failure to follow these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances
 The safety marks shown in this manual have the following meanings:
Be sure to follow the instructions. Be sure to establish an earth connection. Never attempt.
 After completing installation, conduct a trial operation to check for faults and explain to the user how to operate the air conditioner and take care of it with the aid of the operation manual.
 Ask your dealer or qualified personnel to carry out installation work. Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shock or fire.
• Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shock 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, water leakage, electric shock or fire.
• Install the air conditioner on a foundation strong enough to hold the weight of the unit. A foundation of insufficient strength may result in the equipment falling and causing injury.
• Electrical work must be performed in accordance with relevant local and national regulations and with the instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficient power supply and improper workmanship may result in electric shock or fire.
• Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shock 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.
• When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the electrical wiring box cover can be securely fastened. Improper positioning of the electrical wiring box cover may result in electric shock, fire or overheating terminals
If refrigerant gas leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
• After completing installation, check for refrigerant gas leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
• When installing or relocating the air conditioner, do not let any other substances besides R32, such as air, enter the refrigerant circuit. The presence of air or foreign matter in the refrigerant circuit causes an abnormal pressure rise, which may result in equipment damage and even injury.
• During installation, attach the refrigerant piping securely before operating the compressor. If the refrigerant pipes are not attached and the stop valve is open when the compressor is operated, air will be sucked in, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury
• During pump down, stop the compressor before removing the refrigerant piping. If the compressor is still operating and the stop value is open during pump down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigeration cycle, which may result in equipment damage and even injury.
Be sure to earth the air conditioner. Do not earth the unit to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shock.
• Be sure to install an earth leakage circuit breaker. Failure to install an earth leakage circuit breaker may result in electric shock or fire.
• Do not pump down when the refrigerant has leaked, otherwise the compressor may be damaged.
Do not install the air conditioner at any place where there is a danger of flammable gas leakage. In the event of a gas leakage, build-up of gas near the air conditioner may cause a fire to break out.
• While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate the piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
• Tighten the flare nut as specified, such as with a torque wrench. If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
• Take adequate steps to prevent the outdoor unit being used as a shelter by small animals. If small animals or birds come into contact with electrical parts, this can cause malfunctions, smoke or fire. Please instruct the customer to always keep the area around the unit clean.
The refrigerant circuit temperature will be high, therefore the inter-unit wire must be kept away from copper pipes that are not thermally insulated.

Accessories A~B						
(A) Mounting plate	1	B Mounting plate fixing screw M4 × 25L	7	© Accessory filter	1	
D Wireless remote controller	1	E Remote controller holder	1	F Remote controller holder fixing screw M3 × 20L	2	
G Dry battery (AAA)	2	⊕ Indoor unit fixing screw M4 × 12L	2	J Liquid pipe (3.0m)	1	
🛞 Gas pipe (3.0m)	1	L 4 Core wire (3.7m)	1	M Tie wrap	6	
N Operation manual	1	P Installation manual	1			
(R) Product warranty	1					

Precautions for Selecting a Location

• Before choosing the installation site, obtain user approval.

Indoor unit

- The indoor unit should be positioned in a place where: 1) the restrictions on the installation requirements specified
 - in "Indoor/Outdoor Installation Diagram" are met,
 - 2) both the air inlet and air outlet are unobstructed,
 - 3) the unit is not exposed to direct sunlight,
 - 4) the unit is away from sources of heat or steam, 5) there is no source of machine oil vapour
 - (this may shorten the indoor unit service life),
 - 6) cool air is circulated throughout the room,
 - 7) the unit is away from electronic ignition type fluorescent lamps (inverter or rapid start type) as they may affect the remote controller range,
 - 8) the unit is at least 1m away from any television or radio set (the unit may cause interference with the picture or sound), 9) the unit can be installed at the recommended height (1.8m),
 - 10) no laundry equipment is nearby.

Outdoor unit

- The outdoor unit should be positioned in a place where: 1) the restrictions on installation specified in
 - "Outdoor Unit Installation Diagram" are met, 2) drain water causes no trouble or problem in particular,
- 3) both air inlet and outlet have clear paths of air (they should be free of snow in snowy districts),
- 4) the unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight,
- 5) there is no fear of inflammable gas leakage,
- 6) the unit is not directly exposed to salt, sulfidized gases, or machine oil vapour (these may shorten the service life of the outdoor unit).
- 7) operating sound or hot airflow does not cause trouble to neighbours,
- 8) the unit is at least 3m away from any television or radio antenna.

Outdoor Unit Installation Space Requirements

CAUTION

When carrying the outdoor unit during installation, wear gloves to avoid injury.



1) Push up.



OPERATION

- Indoor unit ON/OFF

|-`∎_́-⊕`∎` #^ ■

M-

Jumper

(J8) (J4)

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ADDRESS

EXIST

Indoor Unit

1. Installing the mounting plate

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
- 1) Temporarily secure the mounting plate to the wall, make sure that the plate is completely level, and mark the drilling points on the wall. 2) Secure the mounting plate to the wall with screws.

Recommended mountingplate retention spots and dimensions



2. Drilling a wall hole and installing wall embedded pipe

For metal frame or metal board walls, be sure to use a wall embedded pipe and wall hole cover in the feed-through hole to prevent possible heat, electrical shock, or fire.

- · Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
- 1) Drill a feed-through hole with a 65mm

diameter through the wall at a Inside downward angle toward the outside. Wall embedded pipe (field supply) 2) Insert a wall embedded pipe into the hole. 3) Insert a wall hole cover into wall pipe. 4) After completing refrigerant piping,

wiring, and drain piping, caulk pipe hole gap with putty.

3. Installing the indoor unit

(Right-Side, Right-Back, or Right-Bottom Piping)

- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape. * Caulk the gap between the pipe
- and the front grille with putty.
- 2) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the A mounting plate hooks.
- 3) Open the front grille, then open the service lid. (Refer to Installation Tips.)

4) Pass the inter-unit wire from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of cable tie wires upward for easier work in advance. (If the inter-unit wire ends are to be stripped first, bundle the wire lead ends with adhesive tape.) Hang indoor

hose

5) Press the bottom frame of the indoor unit with both hands to set it on the (A) mounting plate hooks. Make sure the wire leads do not catch on the edge of the indoor unit.

Left-Side, Left-Back, or Left Bottom Piping

- 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape. * Caulk the gap between the pipe and the front grille with putty.
- 2) Be sure to connect the drain hose to the drain port in place of a drain plug.
- 3) Shape the refrigerant pipes.
- 4) Pass drain hose and refrigerant pipes through the wall hole, then position the indoor unit on the (A) mounting plate hooks.
- 5) Pull in the inter-unit wire.

Outside

Right-back piping

(A) Mounting plate

Bind refrigerant

pipe and drain

hose together

with vinyl tape.

Wall hole cove

N.

Right-bottom piping

(field supply)

Right-side

Remove pipe port

right-side piping.*

Remove pipe port cover

here for right-bottom piping.

piping

cover here for

Caulking

- 6) Connect the refrigerant pipes.
- 7) Wrap the refrigerant pipes and drain hose together with insulation tape (field supply) as shown in the figure, in case of setting the drain hose through the back of the indoor unit.
- 8) While exercising care so that the inter-unit wire does not catch indoor unit, press the bottom edge of the indoor unit with both hands until it is firmly caught by the (A) mounting plate hooks. Secure the indoor unit to the (A) mounting plate with the \oplus indoor unit fixing screws (M4 \times 12L).

Wall Embedded Piping

- Follow the instructions given under left-side, left-back, or left bottom piping. Insert the drain hose to this depth
- so it won't be pulled out of the drain pipe.









Compound

Gauge < manifold

pressure

Charging

valve

Low

pressure gauge

Pressure meter

Liquid

stop valve

 \rightarrow

~Gas

stop

valve

Valve caps

0

High-

Vacuum pump Service port

refrigerant may have water content or there may be a loose pipe joint. Check all pipe joints and retighten nuts as

needed, then repeat steps 2) through 4)

4. Wiring

A WARNING

- Do not use tapped wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.
- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not connect the power wire to the indoor unit. Doing so may cause electric shock or fire.



extension hose commercially available. Be sure to thermally insulate the indoor section Extension drain hose Indoor unit þ18 of the extension hose. drain hose 4) When connecting a rigid polyvinyl chloride pipe Heat insulation tube (nominal diameter 13mm) directly (field supply) to the drain hose attached to the 18 indoor unit as with embedded piping work, use any commercially)))))))) available drain socket (nominal Drain hose supplied Commercially Commercially available drair with the indoor unit available rigid diameter 13mm) as a joint. polyvinyl chloride pipe (nominal socket (nomina

diameter 13mm)

diameter 13mm)



3. Refrigerant piping

- 1) To prevent gas leakage, apply refrigeration oil to the inner surface of the flare. 2) Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand.
- Then tighten them fully with the torque wrenches.
- Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and escaping gas.

	Piping size	Flare nut tightening torque	Valve cap tightening torque	Service port cap tightening torque	
Gas side	O. D.9.5mm	25-31N∙m (255-316kgf∙cm)	21-25N∙m (214-255kgf∙cm)	10.8-14.7N•m	
Liquid side	O. D.6.4mm	15-19N∙m (153-194kgf•cm)	21-25N∙m (214-255kgf•cm)	(110-150kgf∙cm)	

Be sure to place a car

If no flare cap is

available, cover

with tape to keep

dirt or water out

the flare mouth

Cautions on Pipe Handling

1) Protect the open end of the pipe against dust and moisture. 2) All pipe bends should be as gentle as possible. Use a pipe bender for bending.

Selection of Copper and Heat Insulation materials

- When using commercial copper pipes and fittings, observe the following: 1) Insulation material : Polyethylene foam
- Heat transfer rate : 0.041 to 0.052W/m²K (0.035 to 0.045kcal/m²h°C)
- 2) Be sure to insulate both the gas and liquid piping and to provide insulation dimensions as below.



4. Purging air and checking gas leakage

/!\ WARNING ·

- Make sure that air or any matter other than refrigerant (R32) does not get into the refrigeration cycle. • If refrigerant gas leaks occur, ventilate the room as soon and as much as possible.
- To prevent air pollution, a vacuum pump should be used for air purging wherever possible.
- If using additional refrigerant, purge the air from the refrigerant pipes and indoor unit using a vacuum pump, then charge
- additional refrigerant. • Use a hexagonal wrench to operate the
- stop valve rod. • All refrigerant pipe joints should be tightened with a torque wrench to the
- specified tightening torque.
- 1) Connect projection side (on which pin is pressed) of charging hose (which comes from gauge manifold) to gas stop valve's service port.
- 2) Fully open gauge manifold's low-pressure valve (Lo) and completely close its high-pressure valve (Hi) (High-pressure valve will require no further operation.)
- 3) Begin vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg) *1 4) Close the gauge manifold's low-pressure valve (Lo) and stop vacuum pumping.
- (Maintain this condition for a few minutes to make sure that the compound pressure gauge pointer does not swing back.) *2.
- 5) Remove the valve caps from the liquid stop value and gas stop valve.
- 6) Turn the liquid stop valve's rod 90° counter-clockwise with a hexagonal wrench to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
- After the check is complete, wipe all soapy water off. 7) Disconnect charging hose from the gas stop valve's service port, then fully open the liquid and gas stop valves.
- (Do not attempt to turn the valve rod further than it can go.)
- 8) Tighten the valve caps and service port caps for the liquid and gas stop valves with a torque wrench to the specified torques.
 - *1. Pipe length vs. vacuum pump run time *2. If the compound pressure gauge pointer swings back, the Pipe length Up to 15m More than 15m Run time At least 10 min. At least 15 min.

5. Wiring

Never use short cables for connecting end of conductor to each other.



• If the drain port is covered by a mounting base or floor surface, place

additional foot bases of at least 30mm in height under the outdoor unit's feet.

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Trial Operation and Testing

1. Trial operation and testing

- Check that the inter-unit wire is correctly connected.
- Trial operation should be carried out in COOL operation.
- 1-1 Measure the supply voltage and make sure that it is within the specified range.
- 1-2 Select the lowest programmable temperature.
- 1-3 Carry out the trial operation following the instructions in the operation manual to ensure that all functions and parts, such as the movement of the flaps, are working properly.
 - To protect the air conditioner, restart operation is disabled for 3 minutes after the system has been turned off.
- 1-4 After trial operation is complete, set the temperature to a normal level (26°C to 28°C).
- When operating the air conditioner in COOL operation in winter, set it to the trial operation mode using the following method.
 - 1) Press "ON/OFF" button to turn on the system.
 - 2) Press both of "TEMP" button and "MODE" button at the same time.
 - 3) Press "TEMP" button, select " ? ", and press "MODE" button for confirmation. • Trial operation will stop automatically after about 30 minutes. To stop the operation, press "ON/OFF" button.
- Some of the functions cannot be used in the trial operation mode
- The air conditioner draws a small amount of power in its standby mode. If the system is not to be used for
- some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the
- original operation mode when the circuit breaker is turned on again.

2. Items to Check

Test Items	Symptom	Check
Indoor and outdoor units are installed securely.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
Only specified wires are used for all wiring, and all wires are connected correctly.	No operation or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air.	Incomplete cooling function	
Stop valves are opened.	Incomplete cooling function	
Indoor unit properly receives remote controller commands.	No operation	

Pump Down Operation

🕂 WARNING

• Make sure that air or any matter other than refrigerant (R32) does not get into the refrigeration cycle.

When performing a pump down, turn off the compressor before detaching the refrigerant pipes. (If the refrigerant pipes are detached when the compressor is operating and the stop valves are open, air will be drawn in leading to abnormally high pressure in the refrigeration cycle. This may result in rupturing and bodily injury.)

In order to protect the environment, be sure to pump down when relocating or disposing of the unit

- 1) Remove the valve cap from the liquid stop valve and gas stop valve. Hexagona 2) Begin forced cooling operation. wrench 3) After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench. 4) After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation. Liquid stop valve 5) Attach the valve cap once procedures are complete. Gas stop valve -Valve cap <u>B</u>C Forced cooling operation Service port-Using the indoor unit ON/OFF switch Press and hold the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.) Forced cooling operation will stop automatically after about 15 minutes. To stop the operation, press the indoor unit ON/OFF switch. Using the indoor unit's remote controller 1) Press "MODE" button and select the cooling mode 2) Press "ON/OFF" button to turn on the system. 3) Press both of "TEMP" button and "MODE" button at the same time.
 - 4) Press "TEMP" button, select " ; ", and press "MODE" button for confirmation. · Forced cooling operation will stop automatically after about 30 minutes. To stop the operation, press "ON/OFF" button.