

DAIKIN ROOM AIR CONDITIONER

OPERATION & INSTALLATION MANUAL







MODELS: FTHT35XV1WAA FTHT50XV1VAA

Safety Precautions (Operation)

- . 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.

MARNING

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



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 follow the instructions.

...

Be sure to establish an earth connection.

 After reading, save this manual in a convenient device 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 ■

- To avoid fire, explosion or injury, do not operate the unit when harmful gases (e.g. flammable or corrosive) are detected near the unit.
- 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.



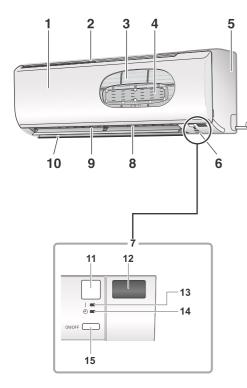
- Do not use the air conditioner for purposes other than those for which it is intended. Do not use the air conditioner for cooling precision instruments, food, plants, animals or works of art as this may adversely affect the performance, quality and/or longevity of the object concerned.
- Do not expose 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.



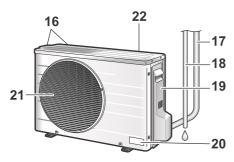
- Before cleaning, be sure to stop unit operation and turn off the circuit breaker. Otherwise, an electric shock and injury may result.
- Only connect the air conditioner to the specified power supply circuit. Power supplies other than the one specified may result in electric shock, overheating and fires.
- 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.

Name of Parts

■ Indoor Unit



■ Outdoor Unit



The appearance of the indoor/outdoor unit may differ among different models.

NOTE

* Features available for selected models.

- 1. Front panel
- 2. Air inlet
- 3. Air filter
- 4. Accessory filter
- 5. Model name plate
- 6. Indoor temperature sensor:
 - Detects the air temperature around the unit.
- 7. Display
- 8. Air outlet
- 9. Louvers (vertical blades):
 - The louvres are inside of the air outlet.
- 10. Flaps (horizontal blades)
- 11. 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

- 12. Inverter output and temperature display*
- 13. OPERATION lamp (green)
- 14. TIMER lamp (orange)
- 15. 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.

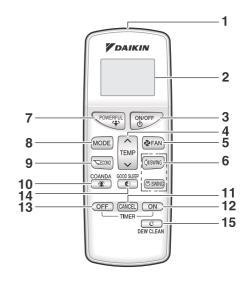
Mode	Temperature setting	Airflow rate	
AUTO	25°C	AUTO	

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

Name of Parts

■ Remote Controller

- 1. Signal transmitter:
 - · Send signals to the indoor unit.
- 2. Display (LCD):
 - Displays the current setting.
- 3. ON/OFF button:
 - Press this button once to start operation.
 Press once again to stop it.
- 4. TEMPERATURE adjustment button:
 - · Changes the temperature setting.
- 5. FAN setting button:
 - Selects the airflow rate setting.
- 6. SWING button:
 - · Adjusts the airflow direction.
- 7. POWERFUL button:
 - POWERFUL operation.
- 8. MODE selector button:
 - Selects the operation mode. (AUTO/DRY/COOL/HEAT/FAN)
- 9. ECONO button:
 - · ECONO operation.
- 10. COANDA button:
 - COANDA operation
- 11. TIMER CANCEL button:
 - Cancels the timer setting.
- 12. ON TIMER button
- 13. OFF TIMER button
- 14. GOOD SLEEP button
- 15. DEW CLEAN button



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.

Preparation before Operation

⚠ CAUTION

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 and heating.
- Do not damage or peel off labels on the batteries.

■ To insert the batteries

- 1. Remove the back cover by sliding and then slightly lifting it.
- 2. Insert 2 dry batteries (AAA).
- 3. Replace the back cover.

■ 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.

■ To attach the accessory filters

- Set the accessory filters under the tabs of the filter frame on the indoor unit.
 - Filter type: Micro-filter PM1.0 + CO2.
- When attaching the accessory filters, refer to "Care and Cleaning", and pull out the air filters.

■ Turn on the circuit breaker

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

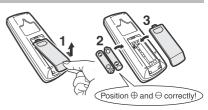
NOTE

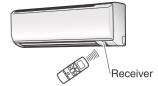
■ Tips for saving energy

- 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.

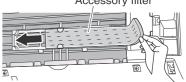
■ Notes on batteries

- 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.
- However, if the remote controller display begins to fade and the possible transmission range becomes shorter within a year, replace both batteries as specified above.
- The batteries supplied with the remote controller are for initial operation. The batteries may run out in less than 1 year.





Accessory filter



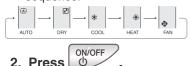
AUTO • DRY • COOL • HEAT • FAN Operation

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

- 3. Press ON/OFF again
 - " ON " disappears from the LCD.
 - Then OPERATION lamp goes off.

■ To change the temperature setting

- 4. Press TEMP
- Press ▲ to raise the temperature and press ▼ to lower the temperature.

COOL operation	HEAT operation	AUTO operation	DRY or FAN operation
18-32°C	10-30°C		The temperature setting cannot be changed.

Default Set Temperature Setting: Whenever Air Conditioner will be switched ON from the remote, the default set temperature will be set as mentioned in below table.

Mode	Set temperature before remote switched OFF	Set temperature after remote switched ON		
Cool	If set temperature = 24°C	Default set temperature will be 24°C.		
Cool	If set temperature >> 24°C	Default set temperature will remain same as set prior to remote switched OFF.		

Note:

Whenever AC is switched OFF in dry mode and is switched ON from remote, air conditioner will start in Cool mode and then DRY mode selection can be done using the MODE button.

NOTE

■ Notes on AUTO operation

- In AUTO operation, the system selects an appropriate operation mode (COOL or HEAT) based on the indoor temperature and starts the operation.
- The system automatically reselects setting at a regular interval to bring the indoor temperature to the user setting level.

■ Notes on COOL operation

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

■ Notes on HEAT operation

This air conditioner heats the room by bringing outdoor heat indoors. Therefore, heating
performance may fall in lower outdoor temperatures.

■ Notes 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.

■ Notes on FAN operation

. This mode is valid for fan only.

■ Recommended temperature setting

For cooling: 26-28°C
 For heating: 20-24°C

Adjusting Airflow Rate / SMELL PROFF / CHILD LOCK Operation

Adjusting the airflow rate

You can adjust the airflow rate to increase your comfort.

■ To change the airflow rate setting

Press Press FAN . • Each pressing of FAN changes the airflow rate setting in sequence.



- In DRY operation, the airflow rate setting cannot be changed.
- When the airflow is set to "♣ ", quiet operation starts and noise from the indoor unit will become quieter.
- In the guiet operation mode, the airflow rate is set to a low level.

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 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 POWERFUL operation is started, air starts circulating immediately.

CHILD LOCK Operation

Setting the CHILD LOCK disables all the buttons except when ECONO and

POWERFULL button press together for about 5 seconds.

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

☐ To set the CHILD LOCK :

Press TECONO and POWERFUL together for about 5 seconds.

" will be displayed on the remote LCD

If a button is pressed while CHILD LOCK is on, " •• blinks.

☐ To CANCEL the CHILD LOCK

Press TECONO and POWERFUL together for about 5 seconds again.

" Disappears from the LCD.

NOTE

■ Note on airflow rate setting

• At lower airflow rates, the cooling (heating) effect is also lower.

■ Note on SMELL PROOF operation

• SMELL PROOF operation can prevent some odours, but not all.

Adjusting the Airflow Direction Operation

You can adjust the airflow direction to increase your comfort.

- Always use a remote controller to adjust the angles of the flaps. Moving the flaps forcibly by hand may cause a malfunction.
- Be careful when adjusting the louvres. Inside the air outlet, a fan is rotating at a high speed.

■ To start auto swing

Upper and lower airflow direction

- 1. Press (45MING).
 - " 📢 " is displayed on the LCD.
 - The flap (horizontal blade) will begin to swing.

Right and left airflow direction

- 1. Press swing .
 - "@..." is displayed on the LCD.
 - The louvres (vertical blades) will begin to swing.

The 3-D airflow direction

- 1. Press swing and swing.
 - "(\$)" and "@\omega" are displayed on the LCD.
 - The flap and louvres move in turn.
 - To cancel 3-D airflow, press either some or same again. The flap or louvres will stop moving.

■ To set the flap or louvres at desired position

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

■ 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.
- Use the air conditioner in the following conditions.

L	Mode	Operating conditions	If operation is continued out of this range			
	COOL	Outdoor temperature: 20-52°C Indoor temperature: 18-32°C	A safety device may activate to stop the operation. Dew may form on the indoor unit and drip from it when			
ſ	DRY	Indoor temperature. 18-32 C Indoor humidity: 80% max.	COOL or DRY operation is selected.			
	HEAT	Outdoor temperature: -10~24°C Indoor temperature: 10-30°C				

Note on 3-D airflow

 3D airflow feature circulates cold and hot air, as cold air tends to accumulate near the bottom of the room and hot air tends to accumulate near the ceiling of the room. Thus, preventing areas of COLD/HOT zones from developing.







COANDA/POWERFUL & ECONO Operations

COANDA Operation

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

■ To start COANDA operation

 Press The flaps position will change, preventing air from blowing directly on the occupants of the room.

• " " is displayed on the LCD. The flap will go up.

■ To cancel COANDA operation

2. Press COANDA again.

- The flaps will return to memory position from COANDA mode.
- "A" disappears from the LCD

POWERFUL Operation

POWERFUL operation quickly maximises the Cooling/heating e ect in any operation mode. In this mode the air conditioner operates at maximum capacity.

■ To Start POWERFUL operation

- 1. Press POWERFUL
- POWERFUL operation ends in 20 minutes.
 Then the system automatically operates again with the previous settings which were used before POWERFUL operation.
- " "is displayed on the LCD.
- To cancel POWERFUL operation
- 2. Press POWERFUL
 - again.
- " disappears from the LCD.

NOTE

■ Notes on COANDA operation

- The flaps position will change, preventing air from blowing directly on the occupants of the room.
- If the up and down airflow direction is selected, the COANDA operation will be cancelled.
- The airflow rate can be set to any level. However, a low airflow rate may result in the downward flow of cold air, and in air blowing at people.

■ Notes on POWERFUL operation

- When using POWERFUL operation, there are some functions which are not available.
- POWERFUL operation can only be set when the unit is running.
- POWERFUL 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, Heat and AUTO operation

To maximise the Cooling/heating effect ,the capacity of outdoor unit in increased and the airflow rate becomes fixed at the maximum setting. The temperature and airflow setting 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.

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.

■ To start ECONO operation

- 1. Press \(\sigma_{\text{ECONO}}\) during operation.
 - " T is displayed on the LCD.

■ To cancel ECONO operation

- 2. Press (\(\sigma\) again.
 - " T " disappears from the LCD.

■ Notes on ECONO operation

- ECONO operation can only be set when the unit is running. Pressing causes the settings to be cancelled, and "\star" disappears from the LCD.
- ECONO operation function in AUTO, COOL, HEAT and DRY operation
- POWERFUL and ECONO operation cannot be used at the same time.
 Priority is given to the function of whichever button is pressed last.
- This operation is performed with lower power and therefore may not provide a sufficient Cooling/heating effect.

TIMER/GOOD SLEEP Operation

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 GOOD SLEEP OFF TIMER together.

■ To use ON TIMER operation

1. Press ON .



" HR. " is displayed on the LCD.

Each pressing of ON changes the time setting by 1 hour.

The time can be set between 1 and 12 hours.





■ To use OFF TIMER operation

1. Press OFF .



" HR. ® " is displayed on the LCD.

Each pressing of OFF changes the time setting by 1 hour.

The time can be set between 1 and 9 hours



■ To cancel TIMER operation

2. Press CANCEL .

- " HR. " disappears from the LCD.
- The TIMER lamp goes off.

■ To combine ON TIMER and **GOOD SLEEP OFF TIMER**

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

• "ON" and "OFF" are displayed on the LCD.



GOOD SLEEP Operations

■ To use GOOD SLEEP OFF TIMER operation.

1. Press ouring COOL operation.

• " °C " blinks for a few seconds.

 The temperature shift value (default: 2) is displayed on the LCD for a few seconds.

• "♥", "OFF" and the stop time (default: 2HR.) are displayed on the LCD.

 The TIMER lamp lights orange.



Display

2. Press

while "°C" is blinking.

 Each pressing of the button changes temperature shift value by 1°C.

You can specify a temperature shift value between +1°C and +5°C.

3. Press while "C" is blinking.

 Each pressing of the button changes the time setting.

The time can be set between 1 and 9 hours.

1 hour... \rightarrow 9 hours \rightarrow OFF

■ To cancel GOOD SLEEP OFF TIMER operation

1. Press CANCEL

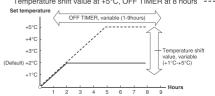
- disappear from the LCD.
- · The TIMER lamp goes off.

NOTE

- Notes on GOODSLEEP TIMER operation
- The set temperature increases by 0.5°C in 30 minutes until the total increase reaches the specified shift value. There is no function for heating the room.

EXAMPLE

Temperature shift value at +2°C, OFF TIMER at 8 hours
Temperature shift value at +5°C, OFF TIMER at 8 hours



NOTE

■ Note on TIMER operation

 Once you set ON / GOOD SLEEP OFF TIMER, the time setting is kept in the memory. The memory is cleared when the • After replacing the batteries in the remote remote controller batteries are replaced.

■ In the following cases, set the timer again.

- · After the circuit breaker has turned off.
- After a power failure.
- controller.

ED BRIGHTNESS Control Operation

The brightness of the indicator lamp can be adjusted H(high), L(low), or OFF.

To set the brightness setting mode.

- Press (SSWING) for more than 5 second's.
 - is displayed on the LCD of remote.
- Press will show the last memory setting of brightness intensity of indicator lamp.
- to adjust the brightness to the indicator lamp.

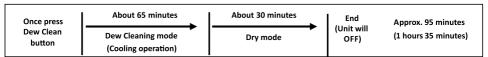


■ Press (SEMING) for about or more than 5 second's again to exit from the brightness setting mode or when the remote controller is left untouched for 60 second's, it returns to the normal mode automatically.

peration

This Function helps to clean accumulation of Dust & Stain on indoor Heat Exchanger.

- To use **DEW CLEAN** operation, Remote Controller and Machine should be in **ON** operation and follow the below steps.
- Press **DEW CLEAN** "C" for more than 2 second's and release the button then "C" blinks on the remote LCD 4 times and then it disappears.
- The **LED** indicator lamp (green and orange) on the Indoor Unit " will blink together during the operation.
- The operation stops automatically as per below defined process and unit will be switched OFF after completion.



To cancel DEW CLEAN operation

-Turn OFF the machine from Remote Controller / Wi-Fi Control

NOTE

- Note on LED Brightness Control:
 - "Ld" indicates the brightness light feature which appears on the set temperature area.
 - · Remote will be in High Brightness Intensity by default, whenever batteries are inserted.
 - If user sets LED lights in "OFF" state while using Brightness Control Feature and power supply failure occurs, LED will remain in "OFF" state when power supply will resume. One needs to reset LED Brightness Control again.
- Note on DEW CLEAN operation :
 - · During DEW CLEAN operation, except Streamer other functions of Remote will not work.
 - · Automatically controls temperature and airflow rate, so manual adjustment of these function is unavailable.
 - If Mains Power Reset or Power failure occur. Dew Clean Operation will stop.
 - · User is recommended to avoid staying inside the room during Dew Clean operation as Indoor temperature will be lower.
 - If room temperature is lower than minimum remote temperature setting, then this function will not work.
 - Recommended temperature range to operate this function is more than 24° C.
 - · Recommended to use this function once in a month to get better cooling effect.
 - Do not keep LED lights in "OFF" state (using Brightness control feature) before starting Dew Clean Operation, otherwise light will not blink during the operation making it difficult to identify the Dew Clean mode.
 - This function is available in both COOL and DRY Mode of operation.

Care and Cleaning

Before cleaning, be sure to stop the operation and turn off the circuit breaker.

Units

Indoor unit and remote controller

1. Wipe them with a dry soft cloth.

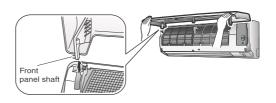
■ Front panel

1. Open the front panel.

· Hold the front panel by the indentations in the main unit and open the front panel.

2. Remove the front panel.

- Slide the front panel to either the left or right and pulling it toward you. This will disconnect the front panel shaft on one side.
- Disconnect the front panel shaft on the other side in the same manner.
- You can also remove the front panel by pushing it open until the front panel shaft is disconnected.



3. Clean the front panel.

- Wipe it with a soft cloth soaked in water.
- Only neutral detergent may be used.
- In case of washing the panel with water, wipe it with dry soft cloth, dry it up 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 slots, then push them all the way in.
- Close the front panel slowly. Press the front panel at both sides
- and the center.



∴ CAUTION

- 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, use a robust and stable stool and watch your steps carefully.
- When removing or attaching the front panel, support the panel securely with hand to prevent it from falling.
- For cleaning, do not use hot water above 40°C, benezen, gasoline, thinner, nor other volatile oils, polishing compound, scrubbing brushes, nor other hard stuff.
- After cleaning, make sure that the front panel is securely fixed.

Care and Cleaning

Air filter

- 1. Pull out the air filters.
 - Open the front panel.
 - Push the filter tab at the center of each air filter a little upwards, them pull it down.

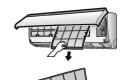


Wash the air filters with water or clean them with vacuum cleaner.

- If the dust not come off easily, wash them with neutral detergent thinner with lukewarm water, then dry them up in the shade.
- Be sure to remove the accessory filter (optional part.)
- It is recommended to clean the air filters every 2 weeks.



- Insert claws of the filters into slots of the front panel.
 close the front panel slowly and push the panel at the 3 points.
- Press the fornt panel at both sides and the centre.





FRONT

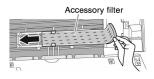
Accessory filter

Filter Type	Optional Filter Part Code
PM 1.0 + 3-LAYER FILTER	KAF100A508
PM 1.0 + 3-CETACHIN & CO2 FILTER	KAF100A509
PM 1.0 + APATAITO FILTER	KAF100A510
PM 2.5 + ACTIVE CARBON FILTER	KAF250A511
PM 2.5 + APATAITO FILTER	KAF250A512
PM 2.5 + VITAMIN C FILTER	KAF250A513
TITANIUM APATITE DEODORIZING AIR-PURIFYING FILTER	KAF970A45
MICRO FILTER - PM2.5	KAF250A502

[Installation]

Hold the filter frame and hook it on the 4 claws of the air filter.

■ ACTIVE CARBON FILTER, APATAITO FILTER, VITAMIN C FILTER, 3-LAYER FILTER, CETACHIN & CO2 FILTER



Install the (N) Accessory filter

[Maintenance]

Filter can be renewed by washing it with water once every 6 months. We recommend replacing it once every 3 years.

Care and Cleaning

- 1. Take off the filter.
- 2. Vacuum dust, and soak in lukewarm water for about 10 to 15 minutes if dirt is heavy.
 - Do not remove the filter from frame when washing with water.
- 3. After washing, shake off remaining water and dry in the shade.
 - Do not wring out the filter when removing water from it.

[Replacement]

- 1. Remove the filter from the filter frame and attach a new one.
 - Do not throw away the filter frame. Reuse the filter frame when replacing the filter.
 - When attaching the filter, check that the filter is set in the tabs.



Accessory Filter

Filter Type: Micro-filter (PM 2.5 & PM 1.0)

[Maintenance]

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

- 1. Take off the filter.
- 2. Vacuum dust.
 - Do not wash the filter as this will reduce its efficiency.

NOTE

- When applying for the filter for the first time, specify "with frame".
- To order an optional filter, contact the service shop where you bought the air conditioner.
- Dispose of the old filter as non-flammable waste.
- Dispose of the old filter frame in accordance with your local waste sorting procedures.
- Operation with dirty filters: (1) cannot deodorise the air.
- (2) cannot clean the air.
- (3) results in poor cooling.
- (4) may cause odour.

■ Before a long idle period

- 1. Operate the FAN only for several hours on a fine day to dry out the inside.
 - Press MODE and select FAN operation. Press ON/OFF 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. Take out 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 aside from regular cleaning by the user. For specialist maintenance, contact the service shop where you bought the air conditioner. The maintenance cost must be born by the user.

The maintenance cost must be born by the use



These cases are not problems

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

Case	Explanation			
The air conditioner stops generating airflow during HEAT operation.	Once the set temperature is reached, the airflow rate is reduced and operation stopped in order to avoid generating a cool airflow. Operation will resume automatically when the indoor temperature falls.			
HEAT operation stops suddenly and a flowing sound is heard.	 The outdoor unit is defrosting. HEAT operation starts after the frost on the outdoor unit has been removed. This can take about 20 minutes. In HEAT operation mode, if the outdoor temperature is above/below the temperature range indicated under "Operating conditions", a safety device will trip disabling operation. 			
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.			
Air does not come out.	 If the operation is started when the SMELL PROOF operation is set, the SMELL PROOF operation starts running to prevent unpleasant odour inside the indoor unit. Wait for about 1 minute. (Except when POWERFUL operation is set) In HEAT operation The air conditioner is warming up. Wait for about 1 to 4 minutes. During defrosting operation, hot air does not flow out of the indoor unit. 			
The flap does not start swinging immediately.	The air conditioner is adjusting the position of the flap. The flap will start moving soon.			
Operation stopped suddenly. (OPERATION lamp is on)	 To protect the system, the air conditioner may stop operating after sudde large voltage fluctuations. It automatically resumes operation in about 3 minutes. Voltage range protection: 130V-285V 			
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. 			
	 Whistling sound This sound is generated when refrigerant flows during defrosting operation. 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 HEAT operation The frost on the outdoor unit melts into water or steam when the air conditioner is in defrosting operation. In COOL or DRY operation Moisture in the air condenses into water on the cool surface of the outdoor unit piping and drips. 			

Case	Explanation
The indoor unit gives out odour.	This happens when smells of the room, furniture, or cigarettes are absorbed into the unit and discharged with the airflow. (If this happens, we recommend you to have the indoor unit washed by a technician. Consult the service shop where you bought the air conditioner.)
The outdoor fan rotates while the air conditioner is not in operation.	■ After operation is stopped: • The outdoor fan continues rotating for about 60 seconds for system protection. ■ While the air conditioner is not in operation: • When the outdoor temperature is very high, the outdoor fan starts rotating for system protection.
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 all the batteries with new, dry batteries (AAA). For details, refer to "To set the batteries" of this manual.
Mist comes out of the indoor unit.	This happens when unit is cooling in high humidity or if unit exposed to excessive oil, dust due to this irregular temperature may occur.

Check again

Please check again before calling a repair person.

ease check again before calling a repair person.						
Case	Explanation					
The air conditioner does not operate. (OPERATION lamp is off)	 Has a circuit breaker turned off or a fuse blown? Is it a power failure? Are batteries set in the remote controller? Is the timer setting correct? 					
The room does not cool down/warm up.	 Is the airflow rate setting appropriate? If the airflow rate setting is too, 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? In HEAT operation mode, if the outdoor temperature is low, the set temperature may not be reached. 					
Operation stops suddenly. (OPERATION lamp flashes)	 Are the air filters clean? Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? Turn off the circuit breaker and take all obstacles away. Then turn it on again and try operating the air conditioner with the remote controller. If the lamp still flashes, call the service shop where you bought the air conditioner. If the lamp stop flashing after the above steps, there is no malfunction. 					
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. 					

Call your service centre immediately



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

The remote controller can receive a corresponding error code from the indoor unit.

- 1. When CANCEL is held down for 5 seconds, a " III" indication blinks on the temperature display section.
- 2. Press CANCEL repeatedly until a continuous beep is produced.
 - The code indication changes as shown below, and notifies with a long beep.

	CODE	MEANING
	00	NORMAL
	UA	INDOOR-OUTDOOR UNIT COMBINATION FAULT
SYSTEM	U0	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
01411	C4	FAULTY HEAT EXCHANGER TEMPERATURE SENSOR
	C9	FAULTY SUCTION AIR TEMPERATURE SENSOR
	EA	COOLING-HEATING SWITCHING ERROR
	E1	CIRCUIT BOARD FAULT
	E5	OL STARTED
	E6	FAULTY COMPRESSOR START UP
	E7	DC FAN MOTOR FAULT
	E8	OVERCURRENT INPUT
	F3	HIGH TEMPERATURE DISCHARGE PIPE CONTROL
	F6	HIGH PRESSURE CONTROL (IN COOLING)
OUTDOOR UNIT	H0	SENSOR FAULT
OUTDOOK ONIT	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
	L5	OUTPUT OVERCURRENT
	P4	FAULTY INVERTER CIRCUIT HEATSINK TEMPERATURE SENSOR

NOTE

- A short beep indicates non-corresponding codes.
- To cancel the code display, hold down CANCEL for 5 seconds.

 The code display also cancels itself if the button is not pressed for 1 minute.

SAFETY PRECAUTIONS (INSTALLATION)

- 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

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

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

• 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 customer how to
operate the air conditioner and take care of it with the aid of the operation manual.



WARNING

- · 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 shocks or fire.
- Install the air conditioner in accordance with the instructions in this installation manual. Improper installation may result in water leakage, electric shocks or fire.
- . Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Install the air conditioner on a foundation strong enough to withstand 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 instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.
- Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks 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
 control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or over heating terminals.
- If refrigerant gas leaks during installation, ventilate the area immediately.
 Toxic gas may be produced if the refrigerant comes into contact with fire.

- 0
- 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, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified
 refrigerant (R32). The presence of air or other foreign matter in the refrigerant circuit causes abnormal pressure rise, which may result in equipment damage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor. If the refrigerant pipes are not attached and the stop
 valve is open when the compressor is run, 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 running and the stop valve 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 shocks.



- Be sure to install an earth leakage circuit breaker. Failure to install an earth leakage circuit breaker may result in electric shocks or fire.
- Do not pump down when the refrigerant has leaked, otherwise the compressor may be damaged.





CAUTION

• 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 piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- Tighten the flare nut according to the specified method 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.
 Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- 💌 The temperature of refrigerant circuit will be high, please keep the inter-unit wires away from copper pipes that are not thermally insulated.

ITEM	QTY.	QTY. Remarks ITEM		ITEM	QTY.	Remarks	
Mounting plate	1	0	€	Remote controller holder fixing screw (M3 x 20L	2	*	
Mounting plate fixing screw (M4 x 25L)	6/7*	0	(L)	4-Core wire (3.7M)	1	*	
© Wireless Remote Controller	1	0	M	Tie wrap	6	*	
Dry battery (AAA)	2	0	(N)	Accessory filter	1/2*	*	
Indoor Unit Fixing Screw (M4 x 12L)	2	0	P	Gas pipe (3.0M)	1	*	
© Operation Manual & Installation Manual	1	Digital	Q	Liquid pipe (3.0M)	1	*	
© E-Waste (Guideline)	1	*	®	Drain socket	1	0	
Product warranty	1	*	S	Heat insulation tape	1	*	
Remote controller holder	1	*	◐	Wi-Fi manual	1	*	

Table No. 1

Precautions for Selecting a Location

· Before choosing the installation site, obtain user approval.

Indoor unit

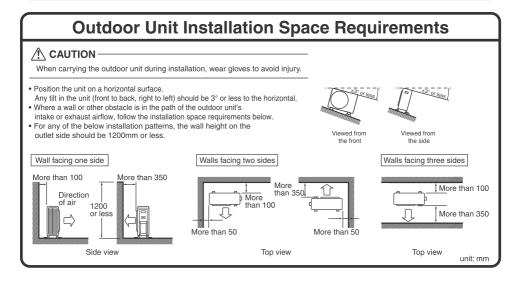
The indoor unit should be positioned in a place where:

- 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,
- 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 the installation requirements specified in "Indoor/Outdoor Installation Diagram" are met,
- 2) drain water causes no trouble or problem in particular,
- 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),
- operating sound or hot airflow does not cause trouble to neighbours,
- the unit is at least 3m away from any television or radio antenna.

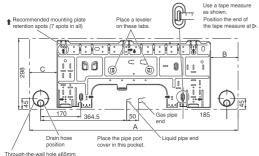


INDOOR UNIT

1 INSTALLING THE MOUNTING PLATE

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

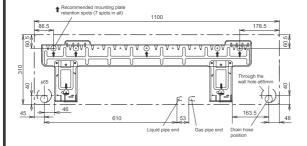
Recommended mounting-plate retention spots and Dimensions



6				
Ар	plicable Unit Size*			
Туре	[H] X [W] X [D]	Α	В	С
1	298 x 800 x 229	800	116.5	116.5
2	298 x 821 x 235	821	128	126.5
3	298 x 885 x 229	885	116.5	116.5
4	298 x 906 x 235	906	127	127.5
	2.11			

* Unit size available on name plate.

Table No. 2



Applicable Unit Size*		
Туре	[H] X [W] X [D]	
(5)	310 x 1100 x 239	
* Unit size	available on name plate. Table No. 3	

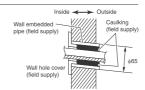
All dimensions are in mm.

2 DRILLING A WALL HOLE AND INSTALLING WALL EMBEDDED PIPE

⚠ WARNING

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.

- Drill a feed-through hole with a 65mm diameter through the wall at a downward angle toward the outside.
- 2) Insert a wall embedded pipe into the hole.
- 3) Insert a wall hole cover into wall pipe.



INDOOR UNIT

3 INSTALLING THE INDOOR UNIT

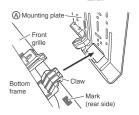
Right-Side, Right-Back or Right-Bottom Piping

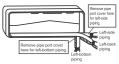
- Open the front panel, open the Front grille (If Required), then open the service lid.(Refer to Installation Tips.)
- 2) Shape the refrigerant pipes.
- 3) Pass the drain hose and refrigerant pipes through the wall hole.
- 4) Hang the indoor unit on (A) mounting Plate
- 5) Pass the inter-unit wires from 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 tie wires upward in advance for easier work. (If the inter unit wires ends are to be stripped first, bundle wire ends with adhesive tape.)
- 6) Connect the refrigerant pipes.
- 7) Bind refrigerant pipe and drain hose with vinyl tape then wrap the refrigerant pipes and drain hose together with insulation tape (field supply) as shown in the figure.
- 8) Hook the claws of the bottom frame to the mounting plate, press the bottom frame of the indoor unit with both hands to set it on the (A) mounting plate hooks. Make sure the wire lead do not catch on the edge of the indoor unit.
- Secure the indoor unit to the (A) mounting plate with the (E) indoor unit fixing screws (M4 x 12L).
- 10) Caulk the gap between the pipe and the front grille with putty.
- After completing refrigerant piping, wiring and drain piping, caulk pipe hole gap with putty.

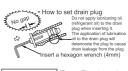
When stripping the ends of inter-unit wires in advance, but and index wires with insulating tape. Denote Cauch is to lea Bod set wires with coulding tape around the best potters coulding national coulding nati

. A Mc

indoor unit fixing screw (M4 × 12L) (2 locations









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

For left piping addition things need to be taken care.

- 1) Be sure to connect the drain hose to the drain port in place of a drain plug.
- 2) Install the unit as per mentioned above RHS side.

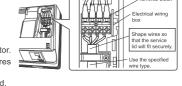
Well Embedded Piping

1) Insert the drain hose to this depth so it won't be pulled out of the drain pipe.

INDOOR UNIT

4 WIRING

- 1) Strip wire ends (15mm).
- Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals with the screw.
- Connect the earth wires to the corresponding terminals.
 Attach the earth wire so that it is not connected to the fan motor connector.
- 4) Pull wires to make sure that they are securely latched up, then retain wires with wire retainer.
- 5) Shape the wires so that the service lid fits securely, then close service lid.



Firmly fix the wires with the terminal screws.	Outdoor unit
Indoor 10	Power supply wire (b) Circuit breaker (c) Earth leakage circuit breaker Power supply (d)

Capacity Class (kW)	2.5~3.7	above 3.7 and upto 7.1
Inter Unit wire (a)	4-core, 1.0 mm ² or more	4-core, 1.5 mm ² or more
Power supply wire (b)	3-core, 1.5 mm ² or more	
Wire Standard	IS:694 or country specific standard.	
Circuit breaker size (c)	15A or more	20A or more
Power supply (d)	50Hz 230V~or Country specific	
Note: Use 4-core 1.5 mm2 wire if wire is not	included with the unit.	

/ WARNING -

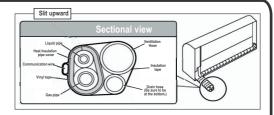
Table No. 4

- Use a stabiliser if required by the voltage supply condition.
- 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.

DRAIN PIPING The drain hose should 1) Connect the drain hose, as described right. be inclined downward. No trap is permitted. Do not put the end 2) Remove the air filters and pour some water into the drain pan to check the water of the hose in water. flows smoothly. 3) When drain hose requires extension, obtain an extension hose commercially available. Be sure to thermally insulate the indoor section of the extension hose. drain hose 4) When connecting a rigid polyvinyl chloride pipe (nominal diameter (field supply) 13mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (nominal diameter 13mm) as a joint. Commercially Commercially available drain socket (nomina with the indoor unit polyvinyl chloride diameter 13mm) pipe (nominal diameter 13mm)

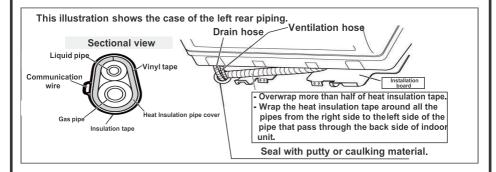
BINDING OF INSULATION PIPE

- 1. The slit direction should be upward.
- 2. It should be sealed with vinyl tape without any gap.
- 3. Do not over tighten with vinyl tape.

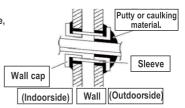


Wrap vinyl tape with the slit of the heat insulation pipe cover facing up so that there are no gap. If there is a gap or if it is tightened too much, it may cause condensation or water dripping.

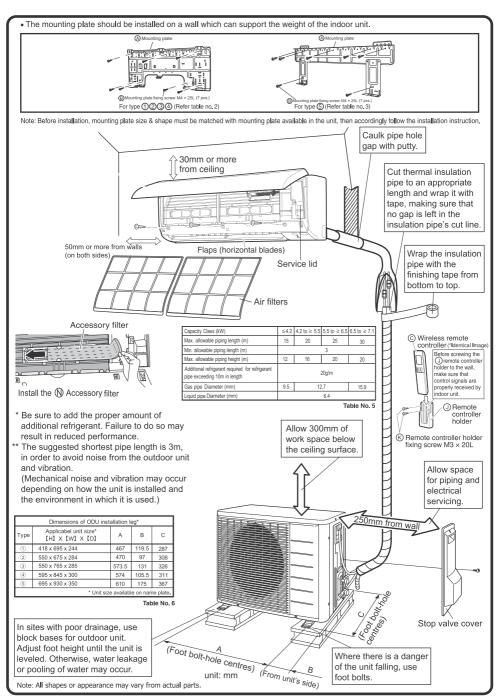




Fill thegap from both the indoor side and the outdoor side to prevent dew condensation, misdetection of indoor temperature, and invasion of small animals.



INDOOR/OUTDOOR UNIT INSTALLATION DIAGRAM



INSTALLATION TIPS

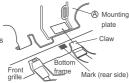
■ Installing and Removing the indoor unit.

· Installation method

Hook the claws of the bottom frame to the mounting plate. If the claws are difficult to hook, remove the front grille.

· Removal method

Push up the marked area (at the lower part of the front grille) to release the claws. If it is difficult to release, remove the front grille.



⚠ CAUTION-

Do not hold the midsection of the bottom of the front grille when carrying the indoor unit.

■ Removing and installing the front panel.

Removal method

Hold the front panel by the indentations in the main unit and open the panel. Slide the front panel sideways to disengage the front panel shaft.

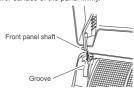
Then pull the front panel toward you to remove it.

You can also remove the front panel by pushing it open until the front panel shaft is disconnected.



· Installation method

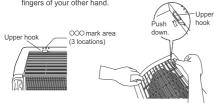
Align the front panel shaft of the front panel with the grooves, and push all the way in. Then close slowly. Push the centre of the lower surface of the panel firmly.



Removing and installing the front grille.

· Removal method

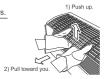
- 1) Remove the front panel to remove the air filter.
- 2) Remove the flap (horizontal blade).
- 3) Remove the front grille. (3 screws)
- 4) In front of the OOO mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand.



<When there is no work space because the unit is close to ceiling>

⚠ CAUTION-

Be sure to wear protection gloves.



Place both hands under the centre of the front grille, and while pushing up, pull it toward you.

· Installation method

- Install the front grille and firmly engage the upper hooks (3 locations).
- 2) Install 3 screws of the front grille.
- 3) Install the air filter and then mount the front panel.

■ Opening the service lid.

The service lid is opening/closing type.

Opening method

- Remove the service lid screws.
- Pull out the service lid diagonally down in the direction of the arrow.
- 3) Pull down.



How to set the different addresses.

When 2 indoor units are installed in one room, the 2 wireless remote controllers can be set for different addresses. Change the address setting of one of the two units.

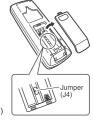
When cutting the jumper (J4) be careful not to damage any of the surrounding parts.

 Remove the battery cover on the remote controller and cut the address jumper (J4).

2) Press (TEMP), (TEMP) and (MODE) at the same time.

3) Press TEMP, select 🖁,

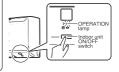
 Press the indoor unit ON/OFF switch while the OPERATION lamp is blinking.







- If setting could not be carried out completely while the OPERATION lamp was blinking, carry out the setting process once again from the beginning.
- After setting is complete, pressing
 MODE for about 5 seconds will
 cause the remote controller to
 return to the previous display.



lote:

Remove polythene film from front panel wherever appiled.

OUTDOOR UNIT

INSTALLING THE OUTDOOR UNIT

 When installing the outdoor unit, refer to "Precautions for Selecting a Location" and the "Outdoor Unit Installation Diagram".

2 FLARING THE PIPE END

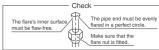
↑ WARNING

Incomplete flaring may result refrigerant gas leakage.

- 1) Cut the pipe end with a pipe cutter.
- Remove burrs with the cut surface facing downward, so that the fillings do not enter the pipe.
- 3) Put the flare nut on the pipe.
- 4) Flare the pipe.
- 5) Check that the flaring has been done correctly.







REFRIGERANT PIPING

- 1) To prevent gas leakage, apply refrigeration oil to the inner surface of the flare.
- 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	
	O. D. 9.5mm	32.7-39.9N • m (333-407 kgf • cm)	21.6-27.4N • m (220-280 kgf • cm)		
Gas side	O. D. 12.7mm	49.5-60.3N • m (505-615 kgf • cm)	48.1-59.7N • m	10.8-14.7N • m (110-150 kgf • cm)	
	O. D. 15.9mm	61.8-75.4N • m (630-770 kgf • cm)	(490-610 kgf • cm)		
Liquid side	O. D. 6.4mm	14.2-17.2N • m (144-175 kgf • cm)	21.6-27.4N • m (220-280 kgf • cm)		

Table No. 7

Cautions on Pipe Handling

- 1) Protect the open end of the pipe against dust and moisture.
- 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 or equivalent.

Heat transfer rate - Co-efficient: 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.

	Piping size	Minimum bend radius	Piping thickness	Thermal insulation size	Thermal insulation thickness	
	O.D. 9.5mm	30 mm or more	Thickness, 0.6mm	I.D 12-15mm	Thickness min.6.5mm	
Gas side	O.D. 12.7mm	40 mm or more	(C1220T-O)	I.D 14-16mm		
	O.D. 15.9mm	50 mm or more	Thickness 0.8mm (C1220T-O)	I.D 16-20mm		
Liquid side	O.D. 6.4mm	30 mm or more	Thickness 0.6mm (C1220T-O)	I.D 8-10mm		

Table No. 8



 Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

 Interpretations



OUTDOOR UNIT

PURGING AIR AND CHECKING GAS LEAKAGE

/!\ WARNING

- Do not mix any substance other than the specified refrigerant (R32) into the refrigeration cycle.
- · When 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, perform air purging 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 at 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 subsequently requires no operation.)
- 3) Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-76cmHg) *1.
- 4) Close gauge manifold's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.) *2.
- 5) Remove valve cap from liquid stop value and gas stop valve.
- 6) Turn the liquid stop valve's rod 90 degrees counterclockwise 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 gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)
- 8) Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.
 - *1. Pipe length vs. vacuum pump run time

Pipe length	Up to 15m	More than 15m
Run time	Not less than 10 min.	Not less than 15 min.

*2. If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exists. Check all pipe joints and retighten nuts as needed, then repeat steps 2 to 4.

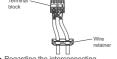
nal block using a single core wire, be sure to perform curling

valve

Vacuum pump

WIRING

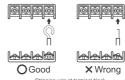
• For inter-unit wires connections, see INDOOR UNIT, 4 WIRING. When connecting the connection wires to the terr



· Regarding the interconnecting and power cables

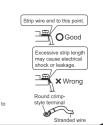


Never use short cables for connecting end of conductor to each other.



Stripping wire at terminal block

- · Precaution to be taken for power supply wiring. . When using stranded wires, make sure to use a round crimp-style terminal for connection to
- the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place



Liquid

Gas

stop

DRAIN WORK

- 1) Use the R drain socket for drainage.
- 2) When attaching the (R) drain socket to the bottom frame, make sure to connect the drain hose to the drain socket first.
- 3) 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.
- 4) In cold areas, do not use a drain hose with outdoor unit. (Drain water may freeze, impairing heating performance.)



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 in COOL operation, 20°C to 24°C in HEAT operation).
- . When operating the air conditioner in COOL operation in winter, or HEAT operation in summer, set it to the trial operation mode using the following method.
 - 1) Press "MODE" button and select the cooling or heating 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 "7", and press "MODE" button for confirmation.
- Trial operation will stop automatically after about 30 minutes. To stop the operation press "ON/OFF" button.
- 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.	are installed securely. Fall, vibration, noise Incomplete cooling function d pipes and indoor drain hose nsulated. Water leakage ed. Electrical leakage used for all wiring, and all rectly. No operation or burn damage Incomplete cooling function 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.
- 2) Begin forced cooling operation.
- 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.
- 5) Attach the valve cap once procedures are complete.

Forced cooling operation

■ 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.

Disclaimer: The appearance of the indoor/outdoor unit may differ among different models.



Hexagonal

wrench

Close

Head office:

Liquid stop valve

Service port -

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Tokyo office:

Yaesu Central Tower, Tokyo Midtown Yaesu, 2-2-1, Yaesu, Chuo-ku, Tokyo, 104-0028, Japan http://www.daikin.com