

OPERATION MANUAL

(The Installation Manual is on the back side.)

MODEL: GTKL35TV16XZ + RKLQ35TV16XZ/RKL35TV16XZ

Safety Precautions

- Read the precautions in this manual carefully before operating the unit.
- This appliance is fitted with R32.
- Keep this manual where the user can easily find it.
- The precautions described herein are classified as **WARNING**, **CAUTION**, and **NOTE**. 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.
 - Failure to follow these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.
- CAUTION**
 - Never attempt.
 - Be sure to follow the instructions.
 - 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**
 - In order to avoid fire, explosion or injury, do not operate the unit when harmful, among which flammable or corrosive gases, are detected near the unit.
 - Be aware that prolonged, direct exposure to cold air from the air conditioner, or air that is too cold 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 malfunctioning, product or injury damage may result due to contact with the air conditioner's high-speed fan blades.
 - Do not attempt to repair, dismantle, versate or fix the air conditioner yourself as this may result in water leakage, electric shocks or fire hazards.
 - Do not use a refrigerant spray near the air conditioner, or otherwise use any gas (gas) when installing, moving or repairing refrigerants may cause trouble or damage to the unit, and personal injury.
 - To avoid electric shocks, do not operate with wet hands.
 - Be aware 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 dealer for assistance. The refrigerant within the air conditioner is safe and normally does not generate a naked burner, heater or other means of fire in operation 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 shocks or fire hazards. Please contact your local dealer or qualified personnel for installation and maintenance work.
 - When the air conditioner is malfunctioning (ging of a burning odor, etc.) turn off power to the unit and contact your local dealer. Continued operation under such circumstances may result in a fire, electric shocks or fire hazards.
 - Be sure to install an earth leakage circuit breaker. Failure to install the earth leakage circuit breaker may result in electric shocks or fire.

Operation

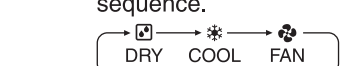
DRY · COOL · FAN Operation

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

- Press **[MODE]** and select a operation mode.

Each pressing of the button advances the mode setting in sequence.



To stop operation

- Press **[ON/OFF]** again.

Each pressing of the button advances the mode setting in sequence.

- Press **[TEMP]**.

Each pressing of the button advances the mode setting in sequence.

NOTE

- Note on COOL operation**
 - This air conditioner cools the room by releasing the heat in the room outside. Therefore, the cooling performance of the air conditioner may be degraded if the outdoor temperature is high.
- Note on DRY operation**
 - The computer chip works to rid the room of humidity while maintaining the temperature as much as possible. It automatically controls temperature and airflow rate, so manual adjustment of these functions is unavailable.
- Note on FAN operation**
 - This mode is valid for fan only.
- Recommended temperature setting**
 - For cooling: 26-28°C

Operation

Timer / ECONO Operation

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

Timer Operation

To use GOOD SLEEP OFF TIMER operation

- Press **[OFF]**.

Each pressing of the button advances the time setting by 1 hour.

The time can be set between 1 to 9 hours.

- The TIMER lamp lights yellow.

To use ON TIMER operation

- Press **[ON]**.

Each pressing of the button advances the time setting by 1 hour.

The time can be set between 1 to 12 hours.

- The TIMER lamp lights yellow.

NOTE

- Note on TIMER operation**
 - Once you set ON / GOOD SLEEP OFF TIMER, the time setting is kept in the memory. The memory is cancelled when remote controller batteries are replaced.
 - In the following cases, set the timer again.
 - After a circuit breaker has turned off.
 - After a power failure.
 - After replacing batteries in the remote controller.
- Notes on ECONO operation**
 - ECONO operation can only be set when the unit is running.
 - Pressing **[OFF]** causes the setting to be canceled, and "E" disappears from the LCD.
 - ECONO operation functions in COOL 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.
 - This operation is performed with increasing setting temperature and therefore may not provide a sufficient cooling effect.

Troubleshooting

These cases are not troubles.

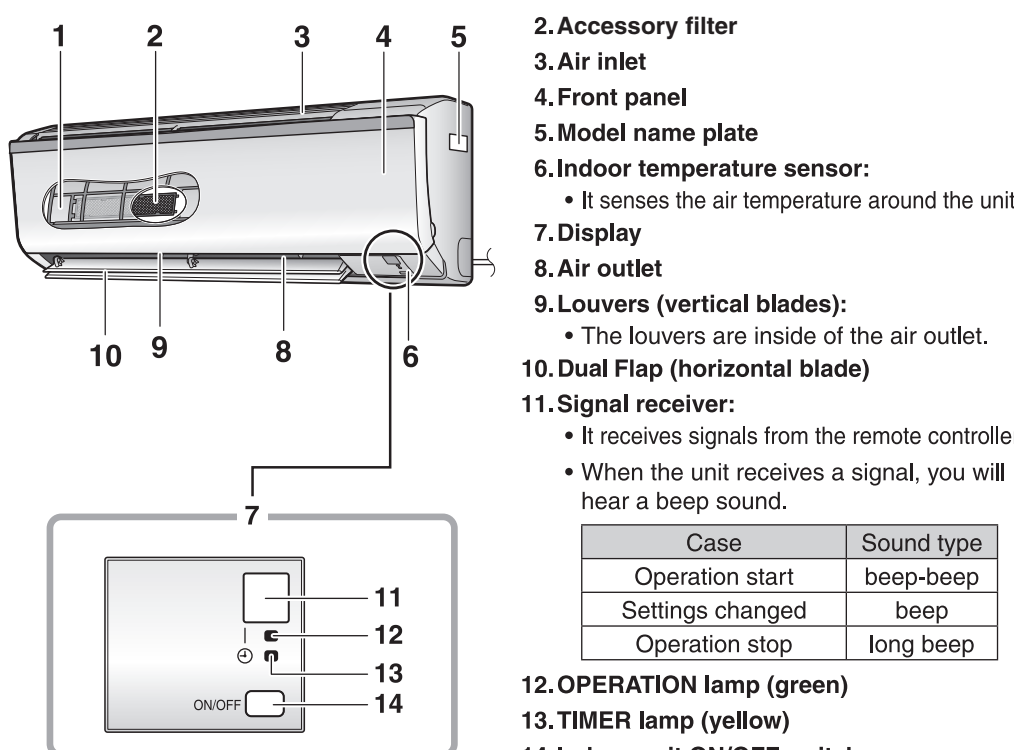
The following cases are not air conditioner troubles but have some reasons. You may just continue using it.

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.
Air 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.) Refer to Adjusting the Airflow Rate / SMELL PROOF Operation.
The flap does not start swinging immediately. Operation stopped suddenly. (OPERATION lamp is on)	- The air conditioner is adjusting the position of the flap. The flap will start moving soon. - For system protection, the air conditioner may stop operating on a sudden large voltage fluctuation. It automatically resumes operation in about 3 minutes. Voltage range protection: 160V-265V
A sound is heard.	A sound like a flow of 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 heard when the water is pumped out from the air conditioner in cooling or drying operation. Ticking sound - This sound is generated when the size of the air conditioner slightly expands or shrinks 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, the air condenses into water on the cool surface of outdoor unit piping and drips into the air conditioner.
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.

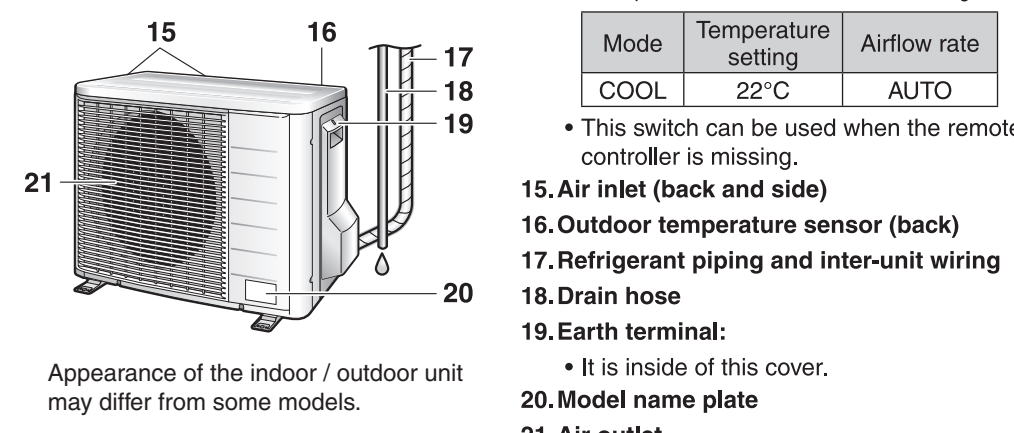
Read before Operation

Name of Parts

Indoor Unit



Outdoor Unit



Appearance of the indoor / outdoor unit may differ from some models.

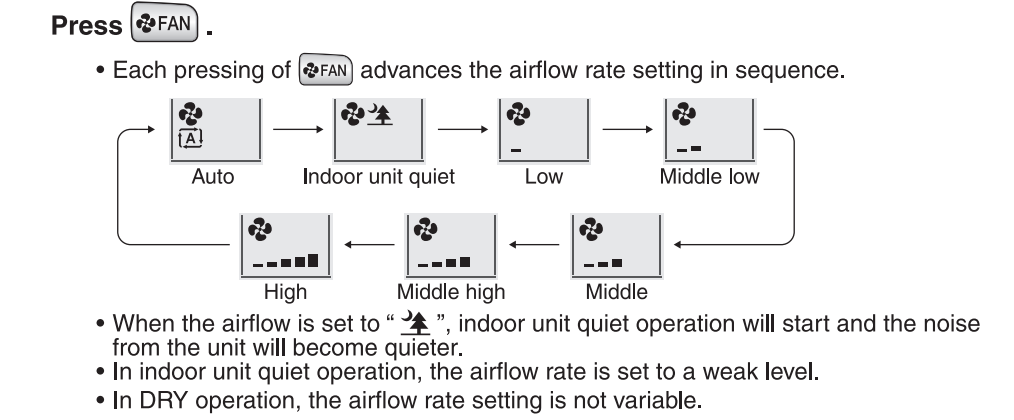
Operation

Adjusting the Airflow Rate / SMELL PROOF Operation

Adjusting the airflow rate

You can adjust the airflow rate to increase your comfort.

To change the airflow rate setting



- When the airflow is set to "Auto", indoor unit quiet operation will start and the noise from the unit will become quieter.
- In indoor unit quiet operation, the airflow rate is set to a weak level.
- In DRY operation, the airflow rate is not variable.

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

- Before starting the operation, press **[FAN]** to set to Auto.
- Press **[MODE]** to select the DRY or COOL operation.
- 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.

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.
- 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.

Mode	Operating conditions	If operation is continued out of this range
COOL	Outdoor temperature: 19.4-50°C Indoor temperature: 19-32°C	• A safety device may work to stop the operation. • Condensation may occur on the indoor unit and drip.
DRY	Indoor humidity: 80% max.	

Care

Care and Cleaning

CAUTION

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

Units

Indoor unit and remote controller

- Wipe them with a dry soft cloth.

Front panel

- Open the front panel.**
 - Hold the front panel by the indentations in the main unit and open the front panel.
- 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 also may remove the front panel by pushing it open until the front panel shaft is disconnected.
- 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.
- 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, benzene, 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.

Troubleshooting

Troubleshooting

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.

Check again.

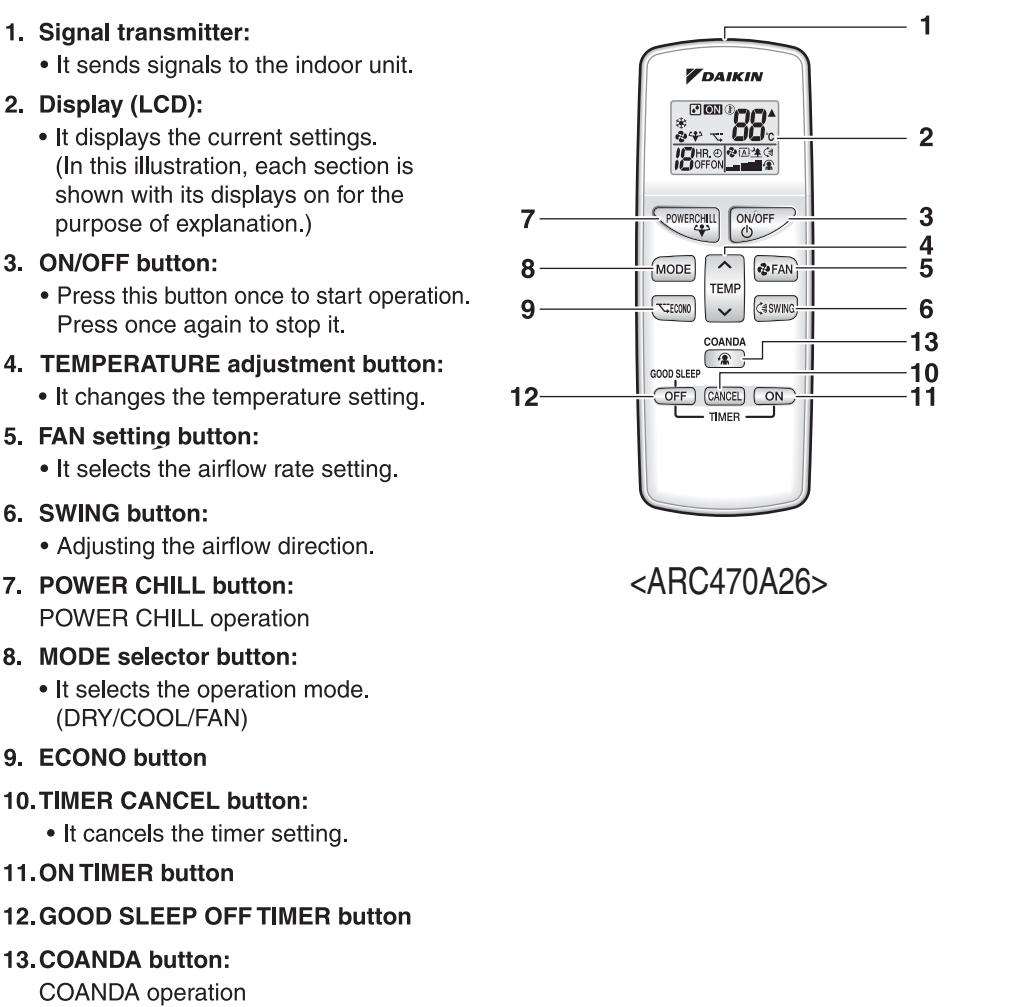
Please check again before calling a repair person.

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?
Cooling effect is poor.	- Are the air filters clean? - Is there anything blocking the air inlet or the outlet of the indoor and the outdoor units? - Is the temperature setting appropriate? - Are the windows and doors closed? - Are the airflow rate and the air direction set appropriately?
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 lamps 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.

Read before Operation

Name of Parts

Remote Controller



NOTE

- Notes on remote controller**
 - Never expose the remote controller to direct sunlight.
 - Do not use 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 lamps) is in the room. Consult the shop if that is the case.
 - If the remote controller signals happen to operate another appliance, move that appliance to somewhere else, or consult the shop.

Operation

Adjusting the Airflow Direction

You can adjust the airflow direction to increase your comfort.

Upper and lower airflow direction

To start auto swing

- Press **[SWING]**.
- "S" is displayed on the LCD.
 - The flap (horizontal blade) will begin to swing.

To set the flap at desired position

- This function is effective while flap is in auto swing mode.

- Press **[SWING]** when the flap has reached the desired position.
- The flap will stop moving.
 - "S" disappears from the LCD.

Right and left airflow direction

To adjust the louvers (vertical blades)

- Hold the knob and move the louvers. (You will find a knob on the left-side and the right-side blades.)
- When the unit is installed in the corner of a room, the direction of the louvers should be facing away from the wall.
- If they face the wall, the wall will block off the wind, causing the cooling efficiency to drop.

CAUTION

- Always use a remote controller to adjust the angles of the flap. If you attempt to move the flap forcibly with hand when it is swinging, the mechanism may be broken.
- Be careful when adjusting the louvers. Inside the air outlet, a fan is rotating at a high speed.

Care

Care and Cleaning

Air filter

- Pull out the air filters.**
 - Open the front panel.
 - Push the filter tab at the center of each air filter a little upwards, then pull it down.
- Clean or replace each filter.**
 - Wash the air filters with water or clean them with vacuum cleaner.
 - If the dust does not come off easily, wash them with neutral detergent thinned 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.
- Set the air filter as they were and close the front panel.**
 - 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 front panel at both sides and the centre.

Optional filter

Item	Part No.
Titanium apatite deodorizing air-purifying filter (with frame) 1 set	KAF970A05
Ag-ion filter (with frame) 1 set	KAF057A41
Anti Microbial filter (with frame) 1 set	KAF500A04
Micro-filter - PM2.5 (with frame) 1 set	KAF250A02
Micro-filter - PM0.1 (with frame) 1 set	KAF010A03

[Installation]

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

Titanium apatite deodorizing/Multi function/ Air-purifying filter Anti Microbial filter

[Maintenance]

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

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

Troubleshooting

Troubleshooting

Case	Explanation
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 the service shop.

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

- After a power failure**
 - The air conditioner automatically resumes operation in about 3 minutes. You should just wait for a while.
- Lighting**
 - If lightning may strike the neighbouring area, stop operation and turn off the circuit breaker for system protection.

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.

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

Read before Operation

Preparation before Operation

To set the batteries

- Remove the back cover by sliding and then slightly lifting it.
- Set 2 dry batteries (AAA).
- Return the back cover to the previous position.

To operate the remote controller

- To use the remote controller, aim the transmitter at the indoor unit. If there is anything to block 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 distance for communication is about 7m.

To install the Accessory filter

- Hold the filter frame and hook it on the 4 claws of the air filter.
- When installing the Accessory filter, refer to "Care and Cleaning", and pull out the air filters.

Turn on the circuit breaker

After the power is turned on, the flap of the indoor unit closes 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.
- Notes on batteries**
 - Clogged air filters cause inefficient operation and waste energy. Clean them once in about every 2 weeks.
 - Do not use a leaking battery.
 - When replacing the batteries, use batteries of the same type, and replace both old batteries together.
 - When the system is not used for a long time, take the batteries out.
 - If the remote controller display begins to fade and the degradation of reception performance occurs within a year, however, replace both batteries with new, dry batteries (AAA).
 - The attached batteries are provided for the initial use of the system.
 - The usable period of the batteries may be short depending on the manufactured date of the air conditioner.

Operation

COANDA / POWER CHILL Operation

COANDA Operation

The flow of air will be in the upward direction which will provide a comfortable wind that will not come in direct contact with people.

To start COANDA operation

- Press **[COANDA]**.
- The flap position will change, preventing air from blowing directly on the occupants of the room.
 - "C" is displayed on the LCD. The flap will go up.
- To cancel COANDA operation**
- Press **[COANDA]** again.
- The flap will return to the memory position from before COANDA mode.
 - "C" disappears from the LCD.

POWER CHILL Operation

POWER CHILL operation quickly maximises the cooling effect in any operation mode. You can get the maximum capacity.

To start POWER CHILL operation

- Press **[POWER CHILL]**.
- POWER CHILL operation ends in 20 minutes. Then the system automatically operates again with the previous settings which were used before POWER CHILL operation.
 - "P" is displayed on the LCD.
- To cancel POWER CHILL operation**
- Press **[POWER CHILL]** again.
- "P" disappears from the LCD.

NOTE

- Notes on COANDA operation**
 - The flap position will change, preventing air from blowing directly on the occupants of the room.
 - If the upper and lower airflow direction is selected, the COANDA operation will be canceled.
 - The airflow rate can be set to any level. However, a low airflow rate may cause cold air to go down and blow on people.
- Notes on POWER CHILL operation**
 - When using POWER CHILL operation, there are some functions that are not available.
 - POWER CHILL operation can only be set when the unit is running.
 - 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 maximize the cooling efficiency, the operation temperature is set to 18°C and the room airflow rate is maximized. The temperature and airflow settings are not variable.
- In DRY operation**
 - The temperature setting is lowered by 2.0°C and the airflow rate is maximized.
- In FAN operation**
 - The airflow rate is fixed to the maximum setting.

Care

Care and Cleaning

[Replacement]

- 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.

Ag-ion filter / Mirco filter PM 2.5 & 0.1

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.

- 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.
- In 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

- 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.
- After operation stops, turn off the circuit breaker for the room air conditioner.**
- Clean the air filters and set them again.**
- 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.

DAIKIN AIR CONDITIONER

INSTALLATION MANUAL

SAFETY PRECAUTIONS

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 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.

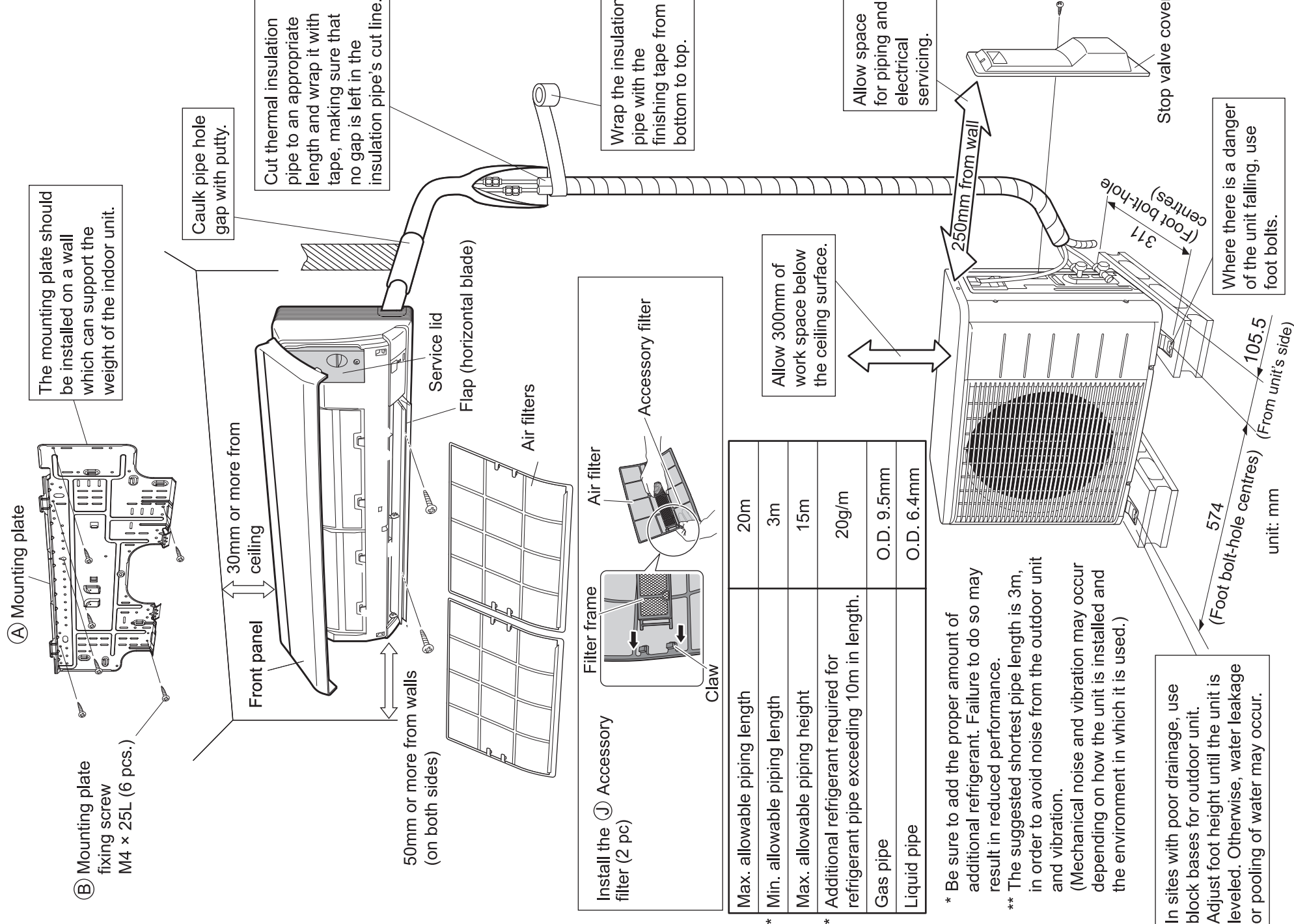
WARNING

- Ask your dealer or qualified personnel to carry out installation work.
- Do not install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Do not attempt to 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.
- Do not connect the power supply cable only to the wires of the terminal block. As the power supply wires may be under tension, they may break, causing electric shocks or fire.
- Use a cable of suitable length. If the cable is too long, it may be damaged by the weight of the cable, causing 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.
- If refrigerant gas leaks during operation, stop the compressor before running the compressor. If the refrigerant pipes are not attached and the control box lid is not closed, toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant gas leakage.
- 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 control box lid is not closed, toxic gas may be produced if the refrigerant comes into contact with fire.
- 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 connect the power supply cable to the wires of the terminal block. As the power supply wires may be under tension, they may break, causing electric shocks or fire.
- Be sure to install an earth leakage circuit breaker. Failure to install an earth leakage circuit breaker may result in electric shocks.
- 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.
- Small animals mixing 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.

INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS



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 part of the front grille to release the claws. If it is difficult to release, remove the front grille.
- 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.
- How to set the different addresses.**
 - When two indoor units are installed in one room, the two wireless remote controllers can be set for different addresses.
 - 1) Remove the front grille. (2 screws)
 - 2) Remove the electrical wiring cover. (3 tabs)
 - 3) Pull out the PCB.
 - 4) Push the address jumper (A) on the printed circuit board.
 - 5) Cut the address jumper (A) in the remote controller.
- Removing and installing the front grille.**
 - Removal method**
 - 1) Remove the front panel to remove the air filter.
 - 2) Remove the flap (front grille). (2 screws)
 - 4) In front of the ○○○ mark of the front grille, there are three upper hooks. Push the front grille with one hand, and push down on the hooks with the fingers of your other hand.
 - Installation method**
 - Push the rotating shaft of the front panel into the groove.
- Opening the service lid.**
 - The service lid is opening/closing type.
 - Opening method**
 - 1) Remove the service lid screws.
 - 2) Pull out the service lid diagonally.
 - 3) Pull down.
- When there is no work space because the unit is close to ceiling-**
 - CAUTION**
 - Be sure to wear protection gloves.
 - 1) Push up.
 - 2) Pull toward you.

ACCESSORIES

① Mounting plate	② Operation/Installation manual	③ Accessory Filter
④ Mounting plate (6 pcs)	⑤ Gas Pipe - 3.5 M	⑥ 4-Cops Wire - 4.2 M
⑦ Wireless remote controller	⑧ Liquid Pipe - 3.5 M	⑨ Tie - Wrap
⑩ Dry battery (AAA)	⑪ Indoor unit fixing screw M4 x 12L	

CHOOSING AN INSTALLATION SITE

Before choosing the installation site, obtain user approval.

- Indoor unit**
 - The indoor unit should be sited in a place where:
 - the restrictions on installation specified in the indoor unit installation drawings are met,
 - both air intake and exhaust have clear paths of air, (they should be free of snow in snowy districts),
 - the unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight,
 - there is no fear of inflammable gas leakage,
 - the unit is not directly exposed to salt, sulfurized gases, or machine oil vapour (they may shorten outdoor unit life),
 - operating sound or hot airflow does not from any television or neighbours,
 - the unit is at least 3 metres away from any radio antenna.
- Outdoor unit**
 - The outdoor unit should be sited in a place where:
 - the restrictions on installation specified in the outdoor unit installation drawings are met,
 - drain water causes no trouble or problem in particular,
 - both air intake and exhaust have clear paths of air, (they should be free of snow in snowy districts),
 - the unit is in a clear path of air but not directly exposed to rain, strong winds, or direct sunlight,
 - there is no fear of inflammable gas leakage,
 - the unit is not directly exposed to salt, sulfurized gases, or machine oil vapour (they may shorten outdoor unit life),
 - operating sound or hot airflow does not from any television or neighbours,
 - the unit is at least 3 metres away from any radio antenna.

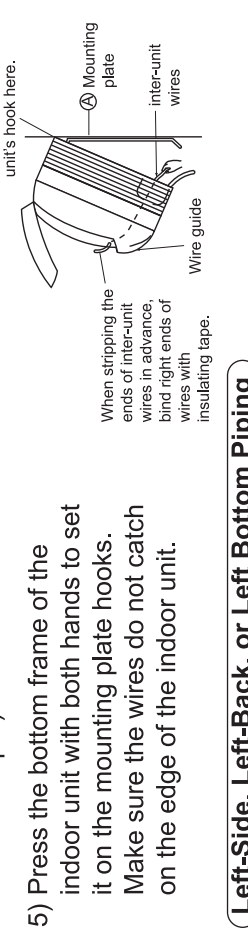
OUTDOOR UNIT INSTALLATION GUIDELINES

- Where a wall or other obstacle is in the path of outdoor unit's intake or exhaust airflow, follow the installation guidelines below.
- CAUTION**
 - When carrying the outdoor unit during installation, wear gloves to avoid injury.
- Walls facing one side**
 - Side view
 - More than 100
 - Direction of air
 - 1200 or less
- Walls facing two sides**
 - Top view
 - More than 100
 - More than 350
 - More than 50

INDOOR UNIT

3-2 INSTALLING THE INDOOR UNIT

- Pass the inter-unit wires from the outdoor unit through the feed-through hole and then through the back of the indoor unit. Pull them through the front hole and bend the wires upward in advance for easier work.
- Secure the mounting plate to the wall with screws.



- 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.

- Be sure to connect the drain hose to the drain port in place of a drain plug.
- Shape the refrigerant pipes.

- Pass drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks.
- Pull in the inter-unit wires.

- Connect the refrigerant pipes.
- Wrap the refrigerant pipes and drain hose together with insulation tape (field supply) as right figure, in case of setting the drain hose through the back of the indoor unit.

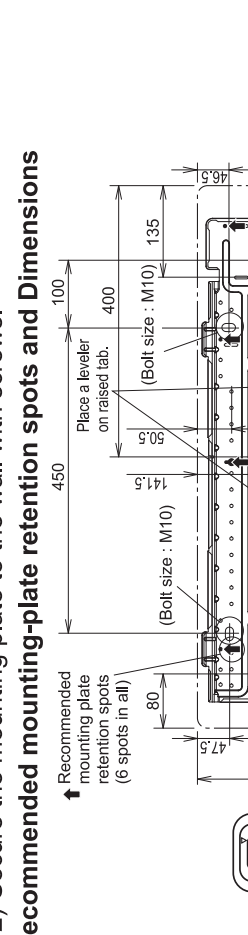
- While exercising care so that the inter-unit wires do not touch the indoor unit, press the bottom edge of the inter-unit wires with both hands until it is firmly caught by the mounting plate hooks. Secure indoor unit to the mounting plate with the screws (M4 x 12L, 2 locations).

Wall Embedded Piping

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

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.
- Secure the mounting plate to the wall with screws.



- Bore a feed-through hole of 65mm in the wall so it has a down slope toward the outside.
- Insert a wall hole cover into wall pipe.
- Insert a wall hole cover into wall pipe.
- After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

2 BORING A WALL HOLE AND INSTALLING WALL EMBEDDED PIPE

- For walls containing metal frame or metal block, 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.

- Bore a feed-through hole of 65mm in the wall so it has a down slope toward the outside.
- Insert a wall hole cover into wall pipe.
- Insert a wall hole cover into wall pipe.
- After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

3-1 INSTALLING THE INDOOR UNIT

- 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.

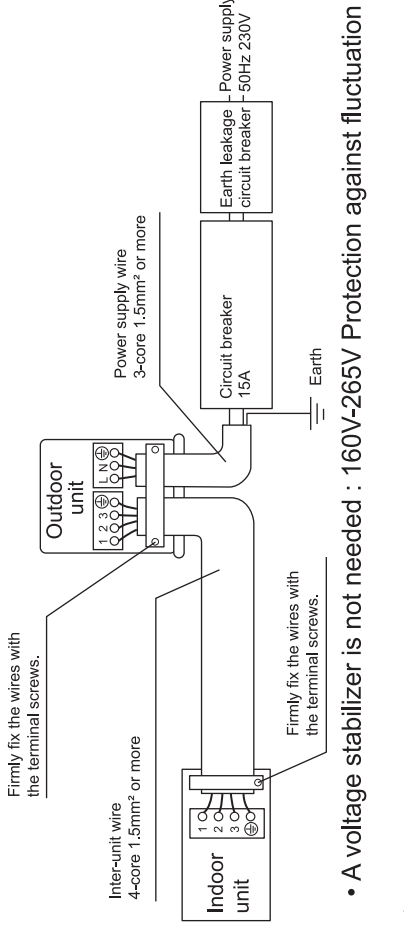
- Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks.

- Open the front grille, then open the service lid.

INDOOR UNIT

4 WIRING

- Strip wire ends (15mm).
- Match wire colours with terminal numbers on indoor and outdoor terminals.
- Secure earth wires to the corresponding terminals.
- Secure earth wires to the corresponding terminals.
- Attach the earth wire so that it is not connected to the fan motor connector with wire retainer.
- Shape the wires so that the service lid fits securely, then close service lid.



WARNING

- Do not use exposed 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.

5 DRAIN PIPING

- Connect the drain hose, as described right.
- Remove the air filters and pour some water into the drain pan to check the water flows smoothly.
- When drain hose requires extension, obtain an extension hose commercially available. Be sure to thermally insulate the indoor section of the extension hose.
- When connecting a rigid polyvinyl chloride pipe (nominal diameter 13mm) directly to the drain hose as with embedded piping work, use any commercially available crank pipe (nominal diameter 13mm) as a joint.

TRIAL OPERATION AND TESTING

Trial Operation and Testing

- Check that the inter-unit wires are correctly connected.
- Measure the supply voltage and make sure that it falls in the specified range.
- Trial operation should be carried out in cooling mode.
- Trial operation in cooling mode may be disabled depending on the room temperature.
- Use the remote controller for trial operation as described below.
- After trial operation is complete, set the temperature to a normal level (26° to 28° C).
- Carry out the test operation in accordance with the operation manual to ensure that all functions and parts, such as lower movement, are working properly.
- The air conditioner requires 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 the risk of electric shock.
- 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 opened again.

- Press "MODE" button and select the cooling mode.
- Press "ON/OFF" button to turn on the system.
- Press "TEMP" button, select "1", and press "MODE" button for confirmation.
- Trial operation will stop automatically after about 30 minutes. To stop the operation, press "ON/OFF" button.

Test Items

Test Items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
Refrigerant gas leaks.	Incomplete cooling function	
Water leakage		
Drainage line is properly installed.	Water leakage	
Electrical leakage		
The specified wires are used for inter-unit wire connections.	Electrical leakage	
Indoor or outdoor unit's air intake or exhaust has clear path of air.	Inoperative or burn damage	
Stop valves are opened.	Incomplete cooling function	
Indoor unit properly receives remote controller commands.	Inoperative	

PUMP DOWN OPERATION

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

- Remove the valve caps from liquid stop valve and gas stop valve.
- Carry out forced cooling operation.
- After 2 to 3 minutes, close the liquid stop valve with a hexagonal wrench.
- After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.

- Forced cooling operation**
 - Press the indoor unit ON/OFF switch.
 - Press "ON/OFF" button at least 5 seconds. (The operation will start.)
 - Forced cooling operation will stop automatically after about 15 minutes.

- Using the main 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 "TEMP" button, select "1", and press "MODE" button for confirmation.
 - 4) Press "TEMP" button, select "1", and press "MODE" button for confirmation.
 - Forced cooling operation will stop automatically after about 30 minutes. To stop the operation, press "ON/OFF" button.

WARNING
Do not pump down when the refrigerant has leaked, otherwise the compressor may be damaged.