**⚠ WARNING** 

Flare nut must use a torque wrench without fall. Tighten with the specified tightening torque. If the flare nut is tightened too much, after a long period of time, the flare nut breaks, Gas leakage, stagnation, touching fire, rarely cause ignition.

Sharp bending of the pipe use the polyethylene rod, bend not crushed the pipe. Gas leakage from the crushed part, stagnation, touching fire, rarely cause ignition.

Please request your sales agent or qualified technician to install your unit. Water leakage, short circuit or fire may occur if you do the installation work yourself.

Please observe the instructions stated in the installation manual during the process of installation. Improper installation may cause water leakage, electric shock and fire.

Make sure that the units are mounted at locations which are able to provide full support to the weight of the units. If not, the units may collapse and impose danger.

Observe the rules and regulations of the electrical installation and the methods described in the installation manual when dealing with the electrical work. Use cables which are officially approved in your country. Be sure to use the specified circuit. A short circuit and fire may occur due to the use of low quality wire or improper work.

or improper work.

Be sure to use the specified cables for connecting the indoor and outdoor units. Please ensure that the connections are tight after the conductors of the wire are inserted into the terminals to prevent the external force is being applied to the connection section of the terminal base. Improper insertion and loose contact may cause over-heating and fire.

Please use the specified components for installation work. Otherwise, the units may collapse or water leakage, electric shock, fire or stronger vibration may occur.

Be sure to use the specified piping set for R32. Otherwise, this may result in broken copper pipes or faults.

When installing or transferring an air conditioner to another location, make sure that air other than the

When installing or transferring an air conditioner to another location, make sure that air other than the specified refrigerant(R32) does not enter the refrigeration cycle. If other air should enter, the pressure level of the refrigeration cycle may increase abnormally which could result in a rupture and injury. Be sure to ventilate fully if a refrigerant gas leak while at work. If the refrigerant gas comes into contact with fire, a poisonous gas may occur.

After completion of installation work, check to make sure that there is no refrigeration gas leakage. If the refrigerant gas leakage into the room, coming into contact with fire in the fan-driven heater, space heater,

etc., a poisonous gas may occur.
Unauthorized modifications to the air conditioner may be dangerous. If a breakdown occurs please call

a qualified air conditioner technician or electrician. Improper repairs may result in water leakage, electric

a qualified air collaborate technical or elevations, improper spaces, in the control of the earth line from the power supply wire to the outdoor unit and between the outdoor and indoor unit. Do not connect the earth line to the gas tube, water pipe, lighting rod or the earth line of the telephone unit. Improper earthing may cause electric shocks. When finishing the refrigerant collection (pumping down), stop the compressor and then remove the coolant pipe. If you remove the refrigerant pipe while the compressor is operating and the service valve is released, air is sucked and a pressure in the freezing cycle system will build up steeply, causing an explosion or intimu.

The electric claudes should intellige the rewinder for aduled, whate sure to use all exclusive circuits breaker. Otherwise fire or electric shock might occur by connection failure, isolation failure or over current.

 Make sure to connect cables to terminal properly and terminal cover should close firmly. Otherwise, over heating at terminal contact, fire or electric shock might occur.

 Make sure that there is no dust on any connected points of electric cables and fix firmly. Otherwise, fire

Make sure that there is no dust on any connected points or electric shock might occur.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Appliance shall be installed in accordance with national wiring regulations and is not intended for use at

# **air** Home

**SPLIT UNIT AIR CONDITIONER** 

INDOOR UNIT RAK-GJ15PHAA



OUTDOOR UNIT RAC-GJ15WHAA

EN INSTRUCTION MANUAL

FOR SERVICE PERSONNEL ONLY

- Carefully read through the procedures o proper installation before starting installation
- The sales agent should inform customer regarding the correct operation of installation

Tools Needed For Installation Work ( mark is tool exclusive use for R32)

- Power Drill (ø 2-18/32" (65mm) ~ ø 3-5/32
- | Solve | Control | Contr

#### **SAFETY PRECAUTION**





This appliance is filled with R32. The contents of this section are vital to ensure safety. Please pay special attention to the following sign

MARNING ....... Incorrect methods of installation may cause death or serious injury. Make sure to connect earth line.

altitudes exceeding 2000m (6561-22/32ft).

CAUTION ...... Improper installation serious consequence  $\bigcirc$  This sign in the figures indicates prohibition.



回機構製品



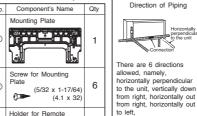
#### THE CHOICE OF MOUNTING SITE (Please note the following matters and obtain permission from customer before installation).

The unit should be mounted at stable, non-vibratory location which can provide full support to the unit.

#### **⚠** CAUTION

- · No nearby heat source and no obstruction near the air outlet is allowed. The clearance distances from top, right and left are
- specified in figure below The location must be convenient for water drainage
- and pipe connection with the Outdoor unit. To avoid interference from noise please place the unit
- and its remote controller at least 3-9/32ft (1m) from the radio, television and inverter type fluorescent lamp. To avoid any error in signal transmission from the remote controller, please put the controller far away from high-frequency machines and high-power wireless
- The installation height of indoor unit must be 7-35/64ft

#### Names of Indoor Components



horizontally out to right, vertically down from left

mounting stand

Dimension of Mounting Stand of the outdoor unit

4-57/64"(124mm)

1 AAA Size Batter 2 **8** Screw for holder of Remote Controller (1/8 x 5/8) (3.1 x 16) 

7 2 Wi-Fi Adapter

o o 🖂

#### **⚠** CAUTION

1

- A brazed, welded or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts. A vacuum valve shall be provided to evacuate the interconnecting pipe and/or any uncharged refrigerating system.
- Mechanical connectors used indoo reused indoors, sealing parts shall be renewed. When flare joints are reused indoors, the flare part shall be re-frabricated.
- Refrigerant tubing shall be protected

## **OUTDOOR UNIT**

#### **⚠ WARNING**

The outdoor unit must be mounted at a location which can support heavy weight. Otherwise

#### **⚠** CAUTION

- A circuit breaker or fuse must be installed. Without a circuit breaker or fuse the danger of electric shock exists
  The external switch shall be incorporated to completely disconnect from power supply. It should disconnect al
  poles, and a contact separation of at least 4/32" (3mm) must be present.

  Do not install the unit near a location where there is flammable gas. The outdoor unit may
- Do not sitisful tire unit near a location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it.
   Do not install the indoor unit in a machine shop, kitchen and laundry rooms when vapor from oil or its mist flows to the indoor unit. The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance and may deform and in the worst case, break the plastic parts of the indoor unit. The blass ensure smooth flow of water when installing the drain hose.

  Piping shall be suitable supported with a maximum spacing of 3-9/32ft (1m) between the supports.

  Selecting the installation location: Suitable location that will reduce the impact from rain and direct sun that may affect the unit performance. Besides that, ventillation must be good and clear of obstruction.

- may affect the unit performance. Besides that, ventillation must be good and clear of obstruction.

  The air blown out of the unit should not point directly to animals or plants.

  The clearances of the unit from top, left, right and front are specified in figure below. At least three of the above sides must be open air.

  Be sure that the hot air blown out of the unit and noise do not disturb the neighbourhood.

  Do not install at a location where there is flammable gas, steam, oil and smoke.

  The location must be convenient for water drainage.

  Place the outdoor unit and its connection wire at least 3-9/32ft (1m) away from the antenna or signal line of television, radio or telephone. This is to avoid noise interference.

  Do not install outdoor unit facing strong wind direction. It may damage the fan motor.

  Do not install the outdoor unit in a place where small animals may build their nests. If small animal goes inside the unit and buches the electrical parts, failure of the unit, smoke or fire may be caused. Request your customer to keep the surrounding of the unit is clean.

  Safely dispose all packing and transportation materials in accordance with federal/state/local laws orordinances. Packing materials such as nalls and other metal or wood parts, including plastic packing materials used for transportation may cause injuries or death by suffocation.

  The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations. Storage package protection should be constructed in such a way that mechanical damage to the transportation may cause injuries or death by suffocation.

  The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations. Storage package protection should be constructed in such a way that mechanical damage to the equipment inside the package will not cause a leak of the REFRIGERANT CHARGE.

#### Figure showing the Installation of Indoor and Outdoor Unit.

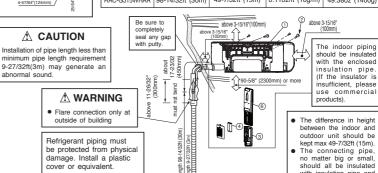
#### **⚠** CAUTION

n case the pipe length is more than the recommended length for chargeless, add refrigeran 32 as below. Do not exceed the maximum pipe length.

#### **⚠** CAUTION

This unit is chargeless up 49-7/32ft (15m) pipe length.
Installation of pipe length less than minimum pipe length requirement 9-27/32ft (3m) may generate an abnormal sound.

Model	Max. Pipe ft(m)	Chargeless up to ft(m)	Additional R32 oz/ft(g/m)	The maximum refrigerant charge (mmax)
RAC-GJ15WHAA	98-14/32ft (30m)	49-7/32ft (15m)	0.11oz/ft (10g/m)	49.38oz (1400g)



outdoor unit should be kept max 49-7/32ft (15m). The connecting pipe, no matter big or small, should all be insulated with insulation pipe and then wrapped with vinyl tape. (The insulator will deteriorate if it is not wrapped with tape) above 3-15/16"(100mm wrapped with tape).

> The connection of insulated drain hose. nner diameter ø5/8"(16mm) шин Сиши Please use insulated lose for the indoor (commercial product)

> > ng cord

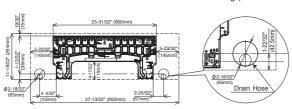
## 1 Installation of Hanger, Wall Penetration and Installation of Protection Pipe

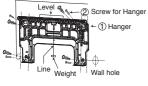
#### **⚠** CAUTION

• The draining of the water container inside the indoor unit can be done from the left Therefore the mounting plate must be fixed horizontally or slightly tilted towards the side of drain hose. Otherwise, condensed water may overflow the water container

#### **Direct Mounting On The Wall**

Please use hidden beams in the wall to hold the mounting plate.





Screw the hanger at the positions possibly near the upper and lower hooks where the indoor unit is hung. Use 4 or more screws to

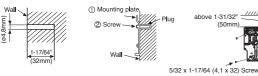
with 5/32 x 1-17/64 (4.1 x 32) screw

(As shown in figure below)

#### Procedures of Installation and Precautions

 Procedures to fix the mounting plate. 1. Drill holes on wall. 2. Push plug into the holes. 3. Fix the mounting plate on wall (As shown below)

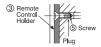
(As shown below)

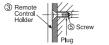


• Procedures to fix the holder of remote control. 1. Drill holes on wall. 2. Push plug into the holes.



INDOOR



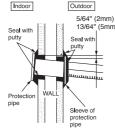




hole on wall which is slightly tilted towards the outdoor side Drill the wall at a small angle. • Cut the protection pipe

according to the wall thickness Empty gap in the sleeve of protection pipe should be completely sealed with putty to avoid dripping of

rain water into the room



#### **↑** WARNING Be sure that the wire is not

in contact with any meta in the wall. Please use the protection pipe as wire passing through the hollow part of the wall so as to prevent the possibility of damaged by mouse any air with high humidity flows from outdoor and dew may drop.

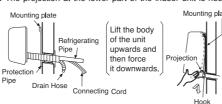
## 2 Installation of the Indoor Unit

#### VERTICALLY DOWNWARD PIPING

Preparation

• Connect connecting cord. • Pull out the pipe, connecting cord and drain

• The upper part of the indoor unit is hanged on the mounting plate. The projection at the lower part of the indoor unit is hooked onto the mounting plate.



#### the unit is hooked onto the mounting plate. Improper installation

#### **HORIZONTAL PIPING** Preparation

#### Change of Drain Hose and Installation Procedures

• Exchange the location of drain hose and drain cap during horizontal piping as shown in figure below. Be sure to plug in the drain hose until the insulating material folds

Please use pliers to pull out

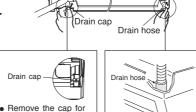
remove the drain cap).

Drain cap

Please insert

until here

(This is an easier way to



# drain hose installation



**A** CAUTION Condensed water may leak out if not inserted properly.

Connecting cords, pipe and

**⚠** CAUTION

Please pull the lower

part of the indoor unit

outwards to check it

may cause vibration

and noise.

**⚠** CAUTION

For horizontally out to right piping

GOOD

For right piping, follow the instruction as below

**✗** BAD

Following bending from left to right directly



Insulation pipe (must be wrapped with vinyl tape at every 4-47/64"(120mm)

"CONNECTION OF POWER CORD")



Drain Hose

#### The rubber strap used for fixing the insulator should not be tied with great force. Otherwise. this will damage heat insulation and causes

**⚠** CAUTION

Pipe

### *19*)// Rubber strap tied with great force

**⚠** CAUTION

Please fix in the plastic core

after flaring to avoid copper

#### THE CONNECTION OF REFRIGERATING PIPE DURING THE **INSTALLATION OF INDOOR UNIT**

INSTALLATION OF REFRIGERATING PIPES AFTER CONNECTION

• The refrigerating pipes should be adjusted to fit into the hole on the wall and The terminals of 2 connected pipes must be covered with insulator used for

terminal connection. Then the pipes are wrapped with insulation pipe.

• Connect the connecting cord after removing electrical cover. (Refer to

After adjustment, fit the connecting cord and pipes into the space available under the indoor unit.

When connection is at left side, refrigerating pipe and cabinet shall be tied

illing to do so may cause the unit bottom side become warping.

#### Preparation To Install Refrigerating Pipes

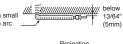
• The end of the refrigerating pipes are at locations marked with "  $\nabla$  " symbol.

# 43-10/32 (1100mm)

chips entering the pipes.







## Installation

Hang the Indoor unit onto the mounting plate. Use the temporary stand at the back of the Indoor unit to push its lower part 5-29/32" (150mm) forwards.

Place the drain hose through the hole on the wall.

Wrap the refrigerating pipes with insulation pipe after connecting refrigerating pipe.

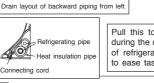
Connect the connecting cord after removing electrical cover. (Refer to "Connection of Power Cord")

After adjustment, the connecting cord and refrigerating pipes are placed into the

space available under the Indoor unit.

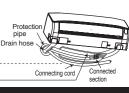
• The projection of Indoor unit must hook to the mounting plate.





Wall hole Pipe Drain ho

> Pull this to the front during the connection of refrigerating pipes to ease task



#### Installation of Drain Hose

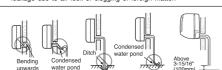
#### **⚠** CAUTION

 Do not guide the drain hose to places where corrosive gases (sulfur, ammonia, etc.) are generated, such as septic tanks and sewer.

Corrosive gas may flow backward from the drain hose to the indoor unit, corrode the copper pipe, or it may cause offensive odors in the room.

Cut the drain hose at a position 3-15/16"(100mm) higher than the floor surface. It may cause water

leakage due to air lock or clogging of foreign matter



**⚠** CAUTION loosely connected

You are free to choose the side (left or right) for the installation of drain hose. Please ensure the smooth flow of condensed water of the Indoor unit during CAUTION installation. (Carelessness may result in water leakage.)

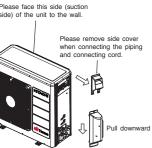


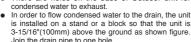
WARNING

Decide the location for piping after sorting out the different types of pipe

 Open the side plate by unscrewing the screws as shown below

Please face this side (suction





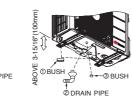
CONDENSED WATER DISPOSAL OF OUTDOOR UNIT

There are holes on the base of Outdoor unit for

In order to flow condensed water to the drain, the unit is installed on a stand or a block so that the unit is 3-15/16"(100mm) above the ground as shown figure. Join the drain pipe to one hole.

At first insert one portion of the hook to the base (Portion A), then pull the drain pipe in the direction shown by

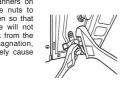
the arrow while inserting the hook into the base. After installation, check whether the drain pipe cling to the



When Using and Installing In Cold Areas
When the air conditioner is used in low temperature and
in snowy conditions, water from the heat exchanger may
freeze on the base surface to cause poor drainage. When
using the air conditioner in such areas, do not install the
bushings. Keep a minimum of 9-27/32"(250mm) between
the drain hole and the ground When using the drain pine. the drain hole and the ground. When using the drain pipe, consult your sales agent.

For more details, refer to the installation Manual for

# Use the two spanners or the service valve nuts to tighten and loosen so that the service valve will not deform. Gas leak from the crushed part, stagnation, touching fire, rarely cause ignition.



PURGING OF REFRIGERANT IS PROHIBITED Purging of refrigerant will cause the unit to be lacked of refrigerant which may affect the capacity performance and lead to severe dew formation causing problem such as dew water drop or splashing from the unit.

## **⚠ WARNING**

**BURST HAZARD** Do not allow air, etc. to get into refrigerant cycle

RISK OF EXPLOSION Compressor must be stopped before removing refrigerant pipes. All service valve must be fully closed after pumping down operation

by excess torque, the service valve on the small pipe side may be broken. The flare nut on the small pipe side should be torqued to 122 - 165lbf.in (140 - 190kgf.cm).

#### 1 Preparation of Pipe

Use a pipe cutter to

EMOVAI

<u>~</u>

AIR

AND

**PIPES** 

GERATING

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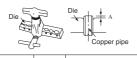
INSTALLATION



#### **⚠** CAUTION

 Jagged edge will cause leakage Point the side to be trimmed dow

copper chips from entering the pipe. • Before flaring, please put on the flare nut.



=	5	· Copper pip	De .		
	Thickness in(mm)	A in(mm)			
Outer diameter in(mm)		Flare tool for R32	Conventional flare tool		
()		Clutch type	Clutch type	Wing nut type	
1/4"(6.35mm)	1/32(0.8)	0~1/64(0.0~0.5)	3/64~1/16(1.0~1.5)	1/16~5/64(1,5~2,0)	
3/8"(9.52mm)	1/32(0.8)	0~1/64(0.0~0.5)	3/64~1/16(1.0~1.5)	1/16~5/64(1,5~2,0)	
1/2"(12.70mm)	1/32(0.8)	0~1/64(0.0~0.5)	3/64~1/16(1.0~1.5)	1/16~3/32(1,5~2,5)	

Recommend to use

R32 flaring tool.

OVAI

REM

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#### **Pipe Connection**

#### **⚠** CAUTION

· When removing flare nut from the Indoor unit, please ensure to use

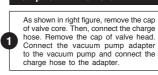
5/8"(15.88mm) 3/64(1.0) 0~1/64(0.0~0.5) 3/64~1/16(1.0~1.5) 1/16~3/32(1,5~2,5)

proper tooling.Prevent pipe from coming in contact with water or working in wet

			Outer dia.of pipe in(mm)	lbf.ft (Torque N.m)
Flare nu	ıt Small	dia. side	1/4" (6.35)	10.08-13.68 lbf.ft (13.7-18.6 N.m)
7			3/8" (9.52)	25.20-32.40 lbf.ft (34.3-44.1 N.m)
	Large	dia. side	1/2" (12.7)	32.40-39.60 lbf.ft (44.1-53.9 N.m)
CO 01			5/8" (15.88)	36.00-43.20 lbf.ft (49.0-58.8 N.m)
		Small dia. side	1/4" (6.35)	14.40-18.00 lbf.ft (19.6-24.5 N.m)
Wrench Torque	Valve	Valve head cap Large dia. side	3/8" (9.52)	14.40-18.00 lbf.ft (19.6-24.5 N.m)
wrench			1/2" (12.7)	21.60-25.20 lbf.ft (29.4-34.3 N.m)
			5/8" (15.88)	21.31-22.75 lbf.ft (29.0-31.0 N.m)
	Valve	Valve core cap		8.75-11.52 lbf.ft (12.3-15.7 N.m)

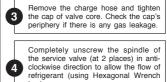
#### Procedures of using Vacuum Pump for Air Removal

3 Removal Of Air From The Pipe And Gas Leakage Inspection



Fully tighten the "Hi" knob of the manifold valve and completely unscrew the "Lo" knob. Run the vacuum pump for about 10~15 minutes, then completely tighten the "Lo" knob and switch off the vacuum pump. After vacuuming, confirm that the needle

of the manifold gauge is stable for 3~5



Re-cap the service valve and tighten using wrench. Check the cap's periphery if there is any gas leakage. The task is

When using the control valve, do not use deteriorated

packing. And, do not overtighten the steering wheel

Gas leakage from the service valve part, stagnation

Wiring Of The Outdoor Unit

· Please remove the side plate for wire connection

touching fire, rarely cause ignition.

**/**\

WARNING

#### Gas Leakage Inspection

When the meter reaches - 101KPa (-76cmHg)

pump

Cap of

valve core

Cap of valve head

Hexagona**l** Wrench Key

adapter

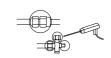
Charge hose

1

Closed R32

Vacuur

Please use gas leakage detector to check if leakage occurs at the connection of Flare nut as shown on the right.

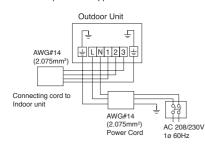


When connecting pipes. If you tighten the flare nut by excess torque, the service valve on the small

#### ★ WARNING THIS APPLIANCE MUST BE EARTHED.

#### Procedures of Wiring

In case that power is supplied from Indoor Unit



Detail of cutting the connecting cord

#### Outdoor Unit

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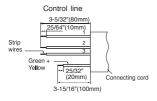
<u>N</u>0

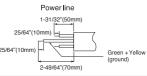
CONN

NO NO

STAGE OF INSTALLATI

FINAL





When removing the connecting wires for the indoor unit, please remove the low cover panel in fron

#### **⚠ WARNING**

- The naked part of the wire core should be 25/64" (10mm) and fix it to the terminal tightly. Then try to pull the individual wire to check if the contact is tight. Improper insertion may burn the terminal
- Be sure to use only power cables approved from the authorities in your country. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to to avoid a hazard
- Please refer to the following for wire connection to the terminals of the units. The cabling must meet the standards of electrical installation
- There is a AC voltage of 208-230V between the L and N terminals. Therefore, before servicing to remove the plug from the or switch off the main switch

#### **⚠ WARNING**

- Leave some space in the connecting cord for maintenance purpose and be sure to secure it with the cord band.

  Secure the connecting cord along the
- coated part of the wire using the cord band. Do not exert pressure on the wire as this may cause overheating or fire.
- Supply cords, current- carrying conductors become taut before earthing conductor, if the cord slips out of the cord band.

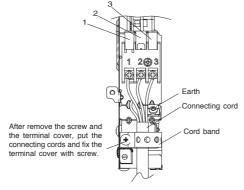
#### Checking for the electric source and the voltage range

- Before installation, the power source must be checked and necessary wiring work must be completed. To make the wiring capacity proper, use the wire gauge list below for the wiring from house distribution fuse box to the outdoor unit in consideration of the locked rotor current. • Investigate the power supply capacity and other electrical conditions
- at the installation location Depending on the model of room air conditioner to be installed, request the customer to make arrangements for the necessary

The electrical work includes the wiring work up the outdoor. In localities where electrical conditions are poor, use of a voltage regulation is recommended.

#### Wiring of The Indoor Unit

- For wire connection of the Indoor unit, you need to remove the front cover, the low cover under the body of the unit and terminal cover.
- Remove the cover from the terminal base and screw the cable



#### Method to remove the low cover

● Pull at the 🗊 and 🗵 in the directions as shown by arrows to remove the cover



#### How to connect the option (H-LINK RAC Adapter. Dry contact, Wil

- · For cable connection to control P.W.B., you need to remove front cover and electrical box cover. Each connecting location is as below. 1 Dry contact: CN6
- ② H-LINK RAC Adapter: CN7B (3) Wired Remote Controller: CN20
- · You can refer to this installation manual how to remove and re-attach the front cover
- Please be careful not to damage lead wires by edge of plate when connecting the optional parts.

  Please do the operation test after the connection.

For (Power cord - L, N, ground)

Wire cross-section	Wire length	
AWG#14 (2.075mm²)	up to 82-1/64ft (25m)	

## **⚠** CAUTION

For (Connecting cord - 1, 2, 3, ground)

 The supply cord of appliances for outdoor use shall be between 4-59/64ft & 9-27/32ft (1.5m & 3m) long and shall be either an EXTRA HARD USAGE or a HARD USAGE CORD.

### IMPORTANT Maximum Overcurrent

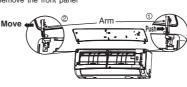
# 25A

## **HOW TO REMOVE OR ATTACH THE FRONT COVER**

AWG#14 (2.075mm²)

#### How to Remove the Front Cover

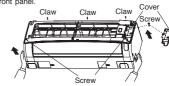
1 Remove the front panel



- (1) Push the end of the right-side arm outward to release the tab.
- 2 Move the left-side arm outward to release the left tab, and then pull the
- 2 Remove the filters.
- After removing 3 screws, remove the cover of electric box, pull the center of the front cover towards you and release the claws. 3
- 4 Pull the side faces (lower sections) of the front cover towards you as

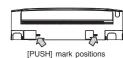
#### How to Attach the Front Cover

- After installing the front cover onto the unit, hook three claws at upper side of the cover securely. Then, push the center of the front cover to lock the claws.
- Assemble the cover of electric box.
- 3 Tighten the 3 screws.
- 4 Install the filter
- 5 Attaching the Front Panel
  - Insert the shaft of the left arm along the step on the unit into the hole Securely insert the shaft of the right arm along the step on the unit into the hole
  - Make sure that the front panel is securely attached, and then close



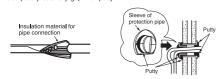
#### HOW TO REMOVE INDOOR UNIT

Push up the (PUSH) sections at the bottom of the indoor unit and pull the bottom plate towards you. Then the claws are released from the stationar plate. (The (PUSH) sections are indicated by 2 arrows as below figure)



#### Insulation And Maintenance Of Pipe Connection

- The connected terminals should be completely sealed with heat insulator and then tied up with rubber strap. Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units. Then fix their position
- To enchance the heat insulation and to prevent water condensation, please cover the outdoor part of the drain hose and pipe with insulation pipe Completely seal any gap with putty.



#### **Power Source And Operation Test**

#### **Power Source**

#### **⚠** CAUTION

- Please use a new socket. Accident may occur due to the use of old socket.
- Please use a new socket. Accident may occur due to the use of old socket because of poor contact.
   Please plug in and then remove the plug for 2 3 times. This is to ensure that the plug is completely plugged into the socket.
   Keep additional length for the power cord and do not render the plug under external force as this may cause poor contact.
   Do not fix the power cord with U-shape nail.

#### **Operation Test**

- Please be sure to measure the supply voltage before operation test.
  Please ensure that the air conditioner is in normal operating condition during the operation test.

  1. Operate with Cool Mode(in summer) or Heat Mode(in winter).

  2. Press Temperature Button on the remote controller to set the desired temperature to 60°F (16.0°C) for Cool Mode or 90°F (32.0°C) for Heating
- Set the desired fan speed to " High). Operate the air conditioner for 20 minutes at least and make sure that the air from the air conditioner is cool or warm.
- 4. Press the ON/Off button on the remote controller to make sure that the air conditioner stops running. If the indication lamps of the indoor unit blink with sounding the buzzer during the operation test, perform a check following the procedures below.

Indication lamps blinking mode	What to check
All indication lamps blink three times repeatedly.	Make sure that the spindles of both service valves are open. (Outdoor fan might operate for near 15 minutes after the operation stop for the protection. For the reoperation at that case, do it after outdoor fan will stop.)

- Before the check and the reoperation, reset the power supply by turning off
- and on the circuit breaker only after 1. waiting for at least 5 minutes; or 2. pressing the Temporary Switch Button only once while the power is OFF

#### **⚠** CAUTION

- Don't operate for over 5 minutes with the situation that the spindle of the service valve is closed. This will cause the defect.
- Don't operate by Cool Mode or Dry Mode with the door and windows opened, (the room humidity is always above 80%) for a long period of time. Water will condense and drip down occasionally. This will wet your furniture.
- Explain to your customer the proper operation procedures as described in the user's frianual.

  If the indoor unit won't operate, check the cable for correct connection.

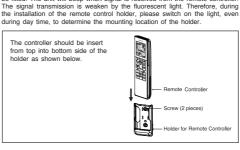
  Turn on the lamp in the room where the indoor unit is installed and check the remote controller for normal operation.
- **Installation Of Remote Controller**

remote controller can be placed in its holder which is fixed on wall or beam To operate the remote controller at its holder, please ensure that the unit can

receive signal transmitted from the controller at the place where the holder is to be fixed. The unit will beep when signal is received from the remote controller.

#### The controller should be insert

**(** 



#### Explanation of symbols displayed on unit





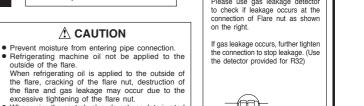
This symbol shows that there is information included in the Operation Manual and/or Installation Manual. California Proposition 65

Proposition 65: This product contains chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm. For more information, go to www.P65Warnings.ca.gov



service cover lid can be fit

securely



If you cannot close the side cover due to the connecting

If you cannot close the side cover due to the conflecting cord, please tidy up the wiring for spacing at front panel.
 Be sure that the hooks of the side cover is properly fixed to avoid water penetration Otherwise water leakage may occur and this causes short circuit or faults
 The connection cord should not touch to service valve and pipe to avoid possibilities of burn. (It become high temperature in heating operation).

temperature in heating operation.)

