⚠ WARNING

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.

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.

The proper insertion and loose contact may cause over-heating and fire.

The proper insertion was contact the specified components for installation work. Otherwise, the units may collapse or water that is about fire or stronger vibration may occur.

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

Be sure to use the specified pipming set for the statuts.
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 leaks into the room, coming into contact with fire in the fan-driven heater, space heater, etc. a noisonous 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 continuorer technician or electrician. Improper repairs may result in water leakage, electric shock and fire, etc.

Be sure to connect 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 amplicate or internal control.

is treased, an its sucked and a pressure in the neezing cycle system will build by steeply, dasting it explosion or injury.

When installing the unit, be sure to install the refrigerant pipe before starting the compressor. If the refrigerant pipe is not installed and the compressor is operated with the service valve released, air is sucked and the pressure level of the refrigeration cycle may increase abnormally which could result in a rupture and injury.

The electric cables should neither be reworked nor added. Make sure to use an exclusive circuit breaker.

crushed part, stagnation, touching fire, rarely cause ignition.

Please request your color and touching fire, rarely cause ignition.

INSTALLATION **MANUAL**



SPLIT TYPE AIR CONDITIONER

INDOOR UNIT



EN INSTRUCTION MANUAL

FOR SERVICE PERSONNEL ONLY

- Carefully read through the procedures of proper installation before starting installation
- The sales agent should inform custome

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

- O Screwdriver
 Measuring Tape
 Knife
 Saw
 Ø 2-18/32" (65mm)
 Power Drill
 Hexagonal Wrench Key
- Adaptor

 Manifold Valve

 Charge Hose (Vacuum Pump

SAFETY PRECAUTION

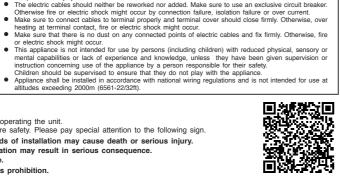
- Read the safety precautions carefully before operating the unit.

 The contents of this section are vital to ensure safety. Please pay special attention to the following sign. ⚠ WARNING Incorrect methods of installation may cause death or serious injury. ♠ CAUTION Improper installation may result in serious consequence.

 - Make sure to connect earth wire.

This sign in the figures indicates prohibition.

Be sure that the unit operates in proper condition after installation. Explain to customer the proper operation and maintenance of the unit as described in the user's guide. Ask a customer to keep this installation manual together with the instruction manual.



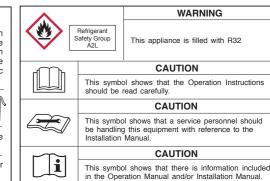
Access the full version of the User Installation Manual by scanning the code



• A circuit breaker must be installed in the house distribution box for the direct connected power supply cables to the outdoor unit. In case of other installations a main switch with a contact gap or more than 4/32" (3mm) has to be installed. Without a circuit breaker, the danger of electric

⚠ CAUTION

- Do not install the unit near a location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it
- Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your furniture.
- An IEC approved power cord should be used. Power cord type: NYM.



⚠ WARNING

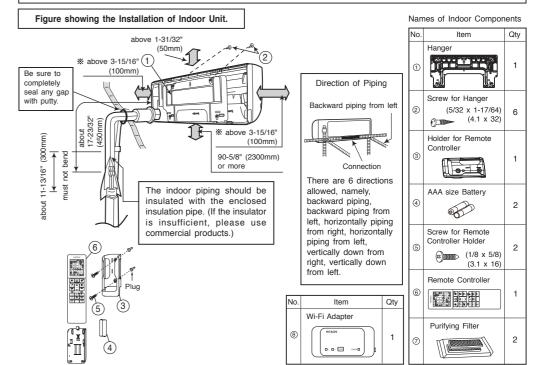
• The unit should be mounted at stable, non-vibratory location which can provide full support to the unit

⚠ CAUTION

The Choice of Mounting Site (Please note the following matters and obtain permission from customer before installation).

- 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 right. The location must be convenient for water drainage and pipe connection with the Outdoor unit.
- No nearby leakage risk of flammable gas, and no nearby source of vapor or oil smoke.
 To avoid interference from noise, please place the unit and its remote controller at least 3.28ft (1m) from the radio and
- 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 systems.
- The installation height should be at least 90-18/32" (2300mm) or more from the floor.

 The distance from the air outlet to the fire alarm must be at least 59-2/32" (1500mm) and there must be no fire alarm in the front direction of the indoor unit.
- 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.



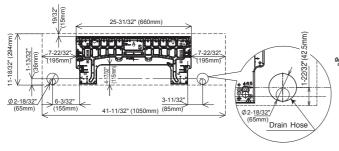
1 Installation of Hanger, Wall Penetration and Installation of Protection Pipe

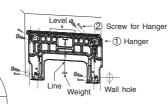
⚠ CAUTION

• The draining of the water container inside the indoor unit can be done from the left. Therefore the hanger 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 hanger





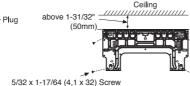
Screw the hanger at the positions possibly near the upper and lower hooks where the indoor unit is hung. Use 4 or more screws to fix the hanger.

Procedures of Installation and Precautions

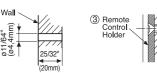
 Procedures to fix the hanger 1. Drill holes on wall.

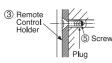
INDOOR

- (As shown below) (As shown below)
- 2. Push plug into the holes. 3. Fix the hanger on wall with 5/32 x 1-17/64 (4.1 x 32) screw (As shown in figure below)



• Procedures to fix the holder of remote control. 1. Drill holes on wall. 2. Push plug into the holes (As shown below) (As shown below)





Wall Penetration and Installation of Protection Pipe Drill a ø 2-18/32" (65mm) hole on

- wall which is slightly tilted towards the outdoor side. Drill the wall at a small
- 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
- Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your furniture.
- An IEC approved power cord should be used. Power cord type: NYM.

Indoor Outdoor 3/32" (2mm) 6/32" (5mm) eal with

⚠ WARNING

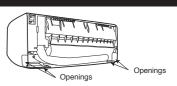
Be sure that the wire is not in contact with any metal in the wall. Please use the protection pipe as wire passing through the hollow part of the wall so as to prevent the possibility of damaged by mouse. Unless it seals completely,

any air with high humidity flows from outdoor and dew may drop.

2 Installation of the Indoor Unit

Cutting Low Cover bush

• While installing the pipe from the right, left or bottom side, use a knife to cut openings as shown in figure. Then smoothen the edges of openings with a file.

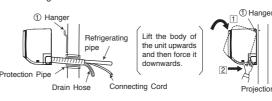


1 PIPING FROM THE RIGHT SIDE (BACKWARD, DOWNWARD, HORIZONTAL)

- Connect connecting cord.
- Pull out the pipe, connecting cord and drain hose.

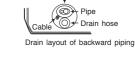
Installation

- Insert the pipe through the wall hole.
- 1 The upper part of the Indoor unit is hanged on the hanger.
- ② The projection at the lower part of the Indoor unit is hooked onto the hanger





111111



2 PIPING FROM THE LEFT SIDE (BACKWARD, DOWNWARD, HORIZONTAL)

Preparation

cap).

Changed of Drain Hose and Installation Procedures

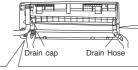
Please use pliers to pull out the drain cap.

(This is an easier way to remove the drain

• Exchange the location of drain hose and drain cap while installing the pipe from the left side as shown in below. Be sure to plug in the drain hose until the insulating material folds upon itself.



⚠ CAUTION Insufficient insert may result in water leakage.



• Push the pipe deeply until the insulating section of the drain hose end gets over the rib at the indoor unit side.

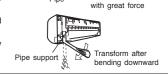




Insert drain cap up to the location securely till the cap stops.

⚠ CAUTION

- The rubber strap used for fixing the insulator should not be tied with great force. Otherwise, this will damage heat insulation and causes water condensation
- Please pull the lower part of the indoor unit outwards to check if the unit is hooked onto the hanger. Improper installation may cause vibration and noise.
- Transform the piping while holding down the lower portion of pipe-support by



UUIL

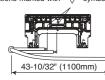
Z Rubber strap tied



THE CONNECTION OF REFRIGERATING PIPE DURING THE INSTALLATION OF INDOOR UNIT

Preparation To Install Refrigerating Pipes

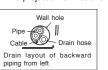
• The refrigerating pipes and connecting cord arrangement are attached. The end of the refrigerating pipes are at locations marked with " \(\nabla \)" symbol.



Installation

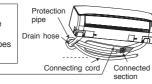
Hang the Indoor unit onto the hanger. Use the temporary stand at the back of the Indoor unit to push its lower part 5-29/32" (150mm) forwards.

- 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 low 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.





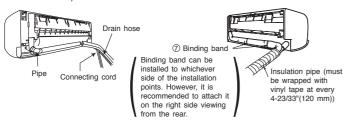




about 5-29/32

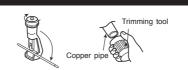
INSTALLATION AFTER CONNECTION OF REFRIGERATING PIPES

- The refrigerating pipe should be adjusted to fit into the hole on the wall and then ready for further connection.
- The terminals of 2 connected pipes must be covered with insulator used for terminal connection. Then the pipes are wrapped with insulatin pipe.
- Connect the connecting cord after removing low cover. (Refer to "CONNECTION OF POWER CORD")
- · After adjustment, fit the connecting cord and pipes into the space available under the unit. Use holder to hold them tight
- Be sure to cut the extra binding band. (Otherwise, it may result in abnormal noise or dewfall.)



1 Preparation of Pipe

• Use a pipe cutter to cut the copper pipe.



⚠ CAUTION

- Remove burr and jagged edge will cause leakage.
- Point the side to be trimmed downwards during trimming to prevent copper chips from entering the pipe.
- · Before flaring, please put on the flare nut





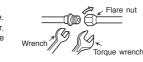
Please use exclusive tool for refrigerant R32

Outer diameter in(mm)	Thickness in(mm)	A in(mm)		
		Flare tool for R32 Clutch type	Conventional flare tool	
			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)
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)

2 Pipe Connection

⚠ CAUTION

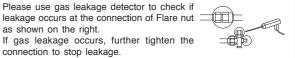
- In case of removing flare nut of a indoor unit, first remove a nut of small diameter side, or a seal cap of big diameter side will fly out. Free from water into the piping
- Be sure to tighten the flare nut to the specified torque with a torque wrench If the flare nut is overtightened, the nut may be split after a long period has passed, and may cause a refrigerant leak
- Please be careful when bending the copper pipe. · Screw in manually while adjusting the center. After that, use a torque wrench to tighten the



		Outer dia.of pipe	Torque N·m (kgf ⁻ cm)
Small dia. side		6.35 (1/4")	14.0 - 18.0 (140 ~ 180)
Large dia. side		9.52 (3/8") 12.70 (1/2") 15.88 (5/8")	33.0 - 42.0 (330 ~ 420) 50.0 - 62.0 (500 ~ 620) 63.0 - 77.0 (630 ~ 770)
Valve head cap	Small dia. side	6.35 (1/4")	19.6 - 24.5 (200 ~ 250)
	Large dia. side	9.52 (3/8") 12.7 (1/2") 15.88 (5/8")	19.6 - 24.5 (200 ~ 250) 29.4 - 34.3 (300 ~ 350) 29.0 - 31.0 (296 ~ 316)
Valve core ca	ар	12.3 - 15.7 (125 ~ 160)	

Gas Leakage Inspection

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

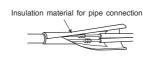


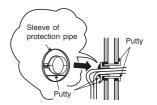
3 Heat Insulation and Finish of the Piping

- The connected terminals should be completed sealed with heat insulator and then tied up with rubber strap.
- . Do not tie the terminals with the tape too tight.

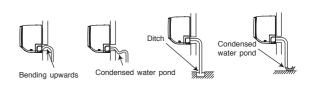
connection to stop leakage.

- If any clearance or over-tightening may cause condensation.
- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units.
- To enhance 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.





4 Installation of Drain Hose



⚠ CAUTION

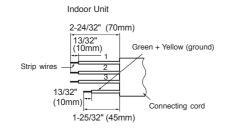
Be sure that the drain hose is not loosely connected or bend or proper

⚠ CAUTION

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 installation. (Carelessness may result in water leakage.)

⚠ WARNING THIS APPLIANCE MUST BE EARTHED

Detail of Cutting the Connecting Cord



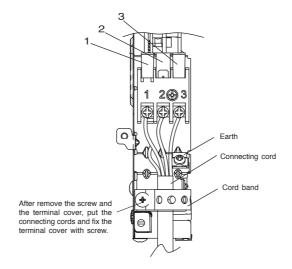
⚠ WARNING

- 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.



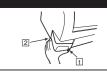
Wiring of The Indoor Unit

- 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.



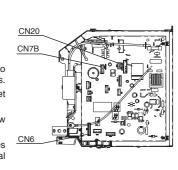
Method to remove the low cover

• Pull at the 1 and 2 in the directions as shown by arrows to remove the cover.



How to connect the optional parts (H-LINK RAC Adapter. Dry contact, Wired Remote Controller)

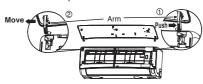
- For cable connection to control P.W.B., you need to remove front cover and electrical box
- Each connecting location is as below. 1) Dry contact: CN6
- 2 H-LINK RAC Adapter: CN7B
- (3) Wired Remote Controller: CN20
- Please check and confirm manuals attached to each optional parts for more connection details. Please check service manual about how to set
- from remote controller. • 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
- Please do the operation test after the



1 HOW TO REMOVE OR ATTACH THE FRONT COVER

How to Remove the Front Cover

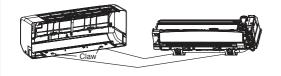
1 Remove the front panel



- 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 panel towards you.
- 2 Remove the filters

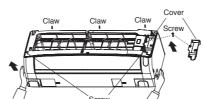
FINAL STAGE OF INSTALLATION

- 3 After removing 3 screws, remove the cover of electric box, pull the center of the front cover towards you and release the claws
- 4 Pull the side faces (lower sections) of the front cover towards you as shown in the figure and remove the cover.



How to Attach the Front Cover

- 1 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.
- 2 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 the front



California Proposition 65

A WARNING

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

2 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 stationary plate. (The (PUSH) sections are indicated by 2 arrows as below figure)





