## **Panasonic**

Model No.: S-18PU\*\*\*\*

S-2124PU\*\*\*\*

Flathead screwdriver Level gauge Electric drill, hole core

drill (ø70 mm)

6 Spanner

Hexagonal wrench (4 mm)

WARNING

CAUTION

CAUTION

CAUTION

Required tools for Installation Works

10 Gas leak detecto 11 Measuring tape 12 Thermometer

13 Megohmmeter

Explanation of symbols displayed on the indoor unit or outdoor unit.

This symbol shows that this equipment uses a lammable refrigerant. If the refrigerant is leaked, ogether with an external ignition source, there is a

This symbol shows that the Installation Manual

This symbol shows that a service personnel should be handling this equipment with reference to the Installation Manual.

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

14 Multimete

9 Knife

15 Torque wrench 18 N•m (1.8 kgf•m) 42 N•m (4.3 kgf•m)

55 Nem (5.6 kgfem 65 Nem (6.6 kgfem

16 Vacuum pump

17 Gauge manifold

### Installation Instruction



THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL.

Refer to National, State, Territory and local legislation, regulations, codes, installation & operation manuals, before the installation, maintenance and/or service of this product.

## SAFETY PRECAUTIONS

Read the following "SAFETY PRECAUTIONS" carefully before installation

 Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to be installed.
 The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications

/! WARNING This in	dication shows the possibility of causing death or serious injury.
CAUTION This in	dication shows the possibility of causing injury or damage to properties only.

The items to be followed are classified by the symbols

$\Diamond$	Symbol with white background denotes item that is PROHIBITED.
0 0	Symbol with dark background denotes item that must be carried out.

 Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.

### **⚠** WARNING

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. Any unfit method or using incompatible material may cause product damage, burst and existing injury. compatible material may cause product damage, burst and serious injury. Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outdoor unit and cross over the handrail causing an accident

Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appliances. Poor contact, poor insulation or over current will cause electrical shock or fire. Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen

Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury.

Do not sit or step on the unit, you may fall down accidentally. Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing.

When installing or relocating air conditioner, do not let any substance other than the specified refrigerant, eg. air etc mix into refrigeration cycle (piping).

Mixing of air etc. will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources of ignition. Else, it may explod

and cause injury or death. Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc.

For R32 model, use new piping, flare nut and tools which is specified for R32 refrigerant. Using of existing (R22) piping, flare nut and tools may cause

abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury. For R32 and R410A, the same flare nut on th outdoor unit side and pipe can be use Since the working pressure for R32/R410A is higher than that of refrigerant R22 models, replacing conventional piping and flare nuts on the outdoor unit side are recommended.

If reuse piping is unavoidable, refer to instruction ③ REFRIGERANT INSTALLATION (IN CASE OF REUSING EXISTING REFRIGERANT PIPING) In outdoor unit installation manual.

Thickness for copper pipes used with R32 must be more than 0.6 mm. Never use copper pipes thinner than 0.6 mm. For copper pipe ø15.88 or mor use copper pipe thickness 0.8 mm and above.

It is desirable that the amount of residual oil less than 40 mg/10 m

Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire. or refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrica

Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock.

Install at a strong and firm location which is able to withstand weight of the set. If the strength is not enough or installation is not properly done, the set

will drop and cause injury. or electrical work, follow the national regulation, legislation and this installation instruction. An independent circuit and single outlet must be used. If

ctrical circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire. o not use joint cable for indoor / outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction 🖲 ELECTRICAL

WIRING and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection o xing is not perfect, it will cause heat up or fire at the connection

ire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or electrica

This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD), with sensitivity of 30mA at 0.1 sec or less. Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.

uring installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and alves at opened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc. uring pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is operating

and valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc. Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may break and

use refrigerant gas leakage. After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire.

Ventilate if there is refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant contacts with fire.

This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, may cause electrical shock in case of equipment breakdown or insulation breakdown.

⚠ CAUTION

In case gas leaks and accumulates at surrounding of the unit, it may

Do not install the unit at place where leakage of flammable gas may occur cause fire.

Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres.

Do not overcharge the unit, refer to gas charge specification in Outdoor Installation manual. Overcharge will cause over current and damage to compressor. Do not release refrigerant during piping work for installation, re-installation and during repairing a refrigeration parts.

Take care of the liquid refrigerant, it may cause frostbite. Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc.

Do not touch the sharp aluminium fin, sharp parts may cause injury.

Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.

Select an installation location which is easy for maintenance.

correct installation, service or repair of this air conditioner may increase the risk of rupture and this may result in loss damage or injury and/or proper door outdoor connection cabl

Use power supply cord 4 x 2.5 mm $^2$  (2.0  $\sim$  6.0HP) type designation 60245 IEC 57 or heavier cord. t may need two people to carry out the installation work.

Keep any required ventilation openings clear of obstruction

### PRECAUTION FOR USING R32 REFRIGERANT

 The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. ever, pay careful attention to the following points:

Do not perform flare connection inside a building or dwelling or room, when joining the heat exchanger of indoor unit with interconnecting piping. Refrigerant connection inside a building or dwelling or room must be made by brazing or welding. Joint connection of indoor unit by flaring method can only be made at outdoor or at outside of a building or dwelling or room. Flare connection may cause gas leak and flammable atmosfere.

The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than Amin (m²) [Refer to Check of The appliance snall be stored, installed and operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.

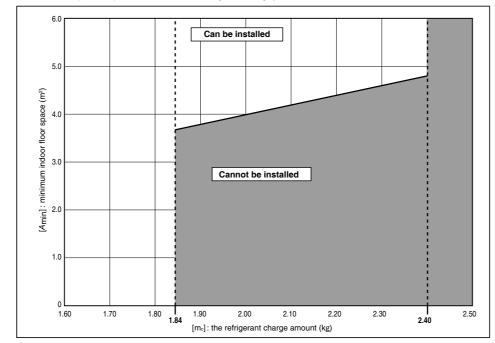
Refer to "PRECAUTION FOR USING R32 REFRIGERANT" in outdoor unit installation manual for other precautions that need to pay attention to.

### **Check of Density Limit**

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are ned according to the refrigerant charge amount [m₀] used in the appliance

Regarding the refrigerant charge amount [m₀] used in the appliance, refer to the installation instructions for the outdoor unit

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows



[m₀] kg	[A <sub>min</sub> ]	
1.84	3.7	
1.9	3.8	
2.0	4.0	
2.1	4.2	
2.2	4.4	
2.3	4.6	
2.4	4.8	

 $A_{\text{min}} = (m_c / (2.5 \times (LFL)^{(5/4)} \times h_0))^2$  \*\* not less than safety factor margin

Amin = Required minimum room area, in m²
m² = Refrigerant charge in appliance, in kı
LFL = Lower flammability limit (0.307 kg/m³

= Installation height of the appliance : (2.2 m for wall mounted) = Safety factor with a value of 0.75

The required minimum room area, Amin, shall also be governed by the safety factor margin formula below  $A_{min} = m_c / (SF \times LFL \times h_o)$ 

The higher value shall be taken when determining the room area.  $m_0 \le 1.84$  : Can be installed 1.84 <  $m_0 \le m_{max}$  : Can be installed above "Density Limit Line" \*1

1 Refer to table and the installation instructions of indoor unit when deciding "Density Limit Line

### **ACCESSORIES PACKED IN THE INDOOR UNIT CONTAINER**

Part Name	Figure	Q'ty	Remarks	Part Name	Figure	Q'ty	Remarks
Full-scale installation diagram		1	Printed on container box	Drain hose	C THIMBELL	1	
Washer	99	8	For suspension bolts	Hose band	8	1	For securing drain hose
Screw	<b>&amp;&amp;&amp;</b>	4	For full-scale installation diagram	Clamper		4	For electrical wiring

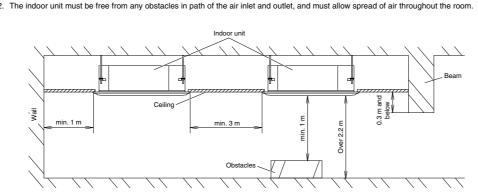
Following accessories are additionally provided for S-2124PU\*\*

Part Name	Figure	Q'ty	Remarks	
Different-diameter-tube joint		1	Gas socket tube A :ø15.88 → ø12.7	
		1	Liquid socket tube B :ø9.52 → ø6.35	

# SELECTING THE LOCATION FOR THE INDOOR UNIT

Provide a check port on the piping side ceiling for repair and maintenance

Install the indoor unit once the following conditions are satisfied and after receiving the customer approval. . The indoor unit must be within a maintenance space.



If the height from the floor to ceiling exceeds three meters, air flow distribution deteriorates and the effect is decrease

The installation position must be able to support a load four times the indoor unit weight.

The indoor unit must be away from heat and sources of steam, but avoiding installation near an entrance The indoor unit must allow easy draining.

The indoor unit must allow easy connection to the outdoor unit.

Place the indoor unit according to the height from the ceiling shown in the illustration below.

The indoor unit must be at least 3 m away from any noise-generating equipment. The electrical wiring must be shielded with a steel conduit

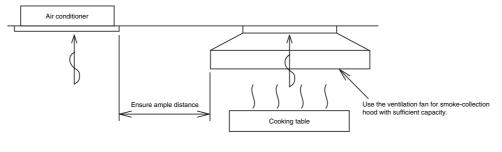
. If the power supply is subject to noise generation, add a suppressor

10. Do not install the indoor unit in a laundry. Electric shocks may result. 11. Installation height for indoor unit shall be at least 2.2 m.

### Note • Thoroughly study the following installation locations

1. In such places as restaurants and kitchens, considerable amount of oil steam and flour adhere to the turbo fan, the fin of the heat exchange and the drain pump, resulting in heat exchange reduction, spraying, dispersing of water drops, drain pump malfunction, etc In these cases, take the following actions: Make sure that the ventilation fan for smoke-collecting hood on a cooking table has sufficient capacity so that it draws oily steam which

should not flow into the suction of the air conditione . Make sure there is enough distance from the cooking room to install the air conditioner in such place where it may not suck in oily steam

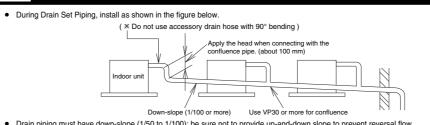


2. Avoid installing the air conditioner in such circumstances where cutting oil mist or iron powder exist, especially in factories, etc. 3. Avoid places where inflammable gas is generated, flows-in, contaminated, or leaked.

4. Avoid places where sulphurous acid gas or corrosive gas can be generated

5. Avoid places near high frequency generators.

INDOOR UNIT DRAIN PIPING



• Drain piping must have down-slope (1/50 to 1/100); be sure not to provide up-and-down slope to prevent reversal flow

 During drain piping connection, be careful not to exert extra force on the drain port at the indoor unit. The outside diameter of the drain connection at the indoor unit is 32 mm.

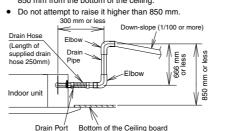
Piping material: Polyvinyl chloride pipe VP-25 and pipe fitting. Be sure to perform heat insulation on the drain piping. (Refer to ⑤ HEAT INSULATION section heat insulators for drain piping & drain pipe installation).

### BEFORE PERFORMING THE INSTALLATION OF DRAIN PIPING

) Limitations of Raising the Drain Pipe Connection

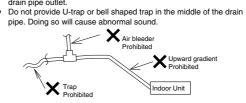
The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling.

Do not attempt to raise it higher than 850 mm



 Do not install the drain pipe with an upward gradient from the drain port connection. This will cause the drain water to flow backward and leak when the unit is not operating.

Do not install an air bleeder as this may cause water to spray from the drain pipe outlet.
 Do not provide U-trap or bell shaped trap in the middle of the drain



Additional Precautions For R32 Models when connecting by flaring at indoor side

\* Use of silicon containing ammonia can lead to stress

corrosion on the joint & can cause leakage.

Neutral cure (Alkoxy type) & ammonia-free silicone

sealant is only to be applied after pressure testing and cleaning up by following instructions of sealant, only to the outside of the connection. The aim is to prevent

moisture from entering the connection joint and possible

occurrence of freezing. Curing sealant will take some time.

Make sure sealant will not peel off when wrapping the insulation

Ensure to do re-flaring of pipes before connecting to units to avoid leaking

Seal sufficiently the flare nut (both gas and liquid sides) with neutral cure (Alkoxy type) &

nonia-free silicone sealant and insulation material to avoid the gas leak caused by freezing

(Additional charging, etc.)

mmonia-free silicor sealant along the

Refrigerant is charged to the outdoor unit. For details

see the manual for installation work of outdoor unit

Confirm the union (thin side) is always at lowe

CAUTION Use two wrenches and tighten with regular torque.

ø15.88 (5/8)

direction after connecting piping.

# REFRIGERANT PIPING

### CONNECTING THE PIPING TO INDOOR

For connection joint of all models Please make flare after inserting flare nut (locate at joint portion of tube assembly) onto the copper pipe In case of using long piping)

Connect the piping

Align the center of piping and sufficiently tighte the flare nut with fingers.
Further tighten the flare nut with torque wrench

Brazing for piping. a. Execute brazing before tightening the flare nut. b. Brazing must be executed while blowing nitrogen gas.

(This prevents generation of oxidized scale in copper pipe.) When there is a lot of brazings for long piping, install a strainer midway of the piping. (The strainer is field supplied.)

Use clean copper pipe with inner wall surface free from mist and dust. Blow nitrogen gas or air to blow off dust in the pipe before connection. gas of an to blow of dust in the pipe before commended.

Form the piping according to its routing. Avoid bending and bending back the same piping point more than three times. (This will result in hardening of the pipe).

After deforming the pipe, align centers of the union fitting of the indoor unit and the piping, and tighten them firmly with wrenches.

Connect pipe to the service valve or ball valve which is located below the outdoor unit. After completing the piping connection, be sure to check if there is gas leakage in indoor and outdoor connection.

## VACUUM DRYING

Flare nut fastening torque N•m (kgf•cm) After completing the piping connection, execute vacuum drying for the connecting piping and the ø6.35 mm | 18 (180) | ø12.7 mm | 55 (560) S-18PU\*\*\*\* S-2124PU\*\*\*\* ø6.35 (1/4) {ø9.52 (3/8)} ø6.35(1/4) ø9.52 (3/8)

{ø15.88 (5/8)} ø12.70 (1/2) ø12.70 (1/2) mm (in) Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-2124PU\*\*\*
The size of "{ }" indicates the connection tube diameter when using the different-diameter-tube join

low to use different-diameter-tube joint (supplied)

1) When using with single connection Outdoor PZ3 series (Type 21) ect the liquid socket tube B (ø6.35 - ø9.52) to the liquid tubing side indoor unit

Liquid tube (ø6.35) Gas tube (ø12.7) Connect the gas socket tube A (ø12.7 - ø15.88) to the gas tubing side indoor unit

 Outdoor PZ3 series (Type 24) Liquid tube (ø6.35) Gas tube (ø15.88) Connect the liquid socket tube B (ø6.35 - ø9.52) to the liquid tubing side indoor un

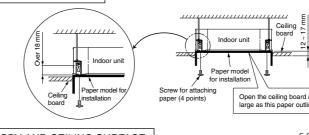
# INSTALLATION OF INDOOR UNIT

This air conditioner uses a drain up motor. Horizontally install the unit using a level gauge CEILING OPENING DIMENSIONS AND HANGING BOLT LOCATION The paper model for installation expand or shrink according to temperature and humidity Check on dimensions before use it.

<u>Notice</u> CAUTION During the installation, care must be taken not to damage electric wires. The dimensions of the paper model for installation are the same as those of the ceiling Be sure to discuss the ceiling drilling work with the workers concerned.

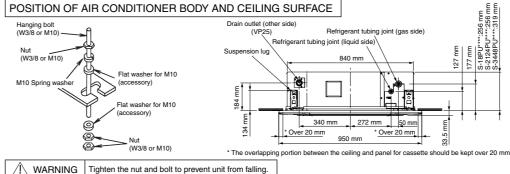
HANGING POSITION OF THE AIR CONDITIONER BODY Air conditioner body gap setting between ceiling

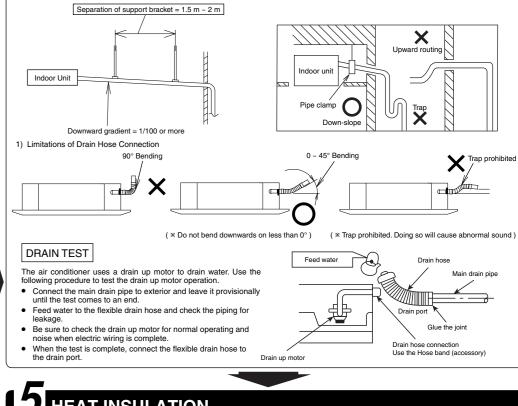
surface should be 12mm ~ 17mm as below (Adjustment of height direction should be done after fixing decorative panel.)



View from top

A: 780 mm
B: 890 - 910 mm
A: (suspension bolt pitch)
B: (ceiling opening dimension)





• Make sure the drain pipe has downward gradient (1/100 or more; downward from drain port connection)



Be sure to perform heat insulation on the drain, liquid and gas piping. Imperfection in heat insulation work leads to ∴ CAUTION water leakage.

insulation size (I.D.)

12.70 (1/2") 14 ~ 16 mm 10 mm o

Insulation

6.35 (1/4") 8 ~ 10 mm

9.52 (3/8") 12 ~ 15 mm

15.88 (5/8") 16 ~ 20 mm

Two tubes arranged togethe

Gas tubing

Thermal insulation thickness

# HEAT INSULATORS FOR REFRIGERANT TUBES

Selection of heat insulation materials for refrigerant tube.
When using the heat insulation materials (field supply), kindly
Check for its sizes and perfomance.
 Material for insulation material: Polyethylene foam.

Heat transfer rate: less than 0.051 W/m.K. Material withstand temperature: up to 110°C Max

Must be easy to use, age resistance and not easily absorb moisture. Be sure to match the below insulation material size with tube sizes

tube joint Complete with Unit \_\_\_\_ / Flare nut Flare union Illustration shows when using by

S-18PU\*\*\*\* , S-3448PU\*\*\* Taping the flare nuts Wind the white insulating tape around the flare nuts at the gas tube

Cover up the tube connection with tube insulator (field supply).

 Taping the tubes
 Refrigerant tubes (and electrical wiring if local permit) should be taped together with armouring tape in 1 bundle. Keep drain hose separate from refrigerant tube to prevent condensation. Wrap the armouring tape from the bottom of the outdoor unit to the tubing where it enters the wall. Overlap half of each previous turn.

 Clamp the tubing to the wall, using 1 clamp approx. per each meter apart. 4. Finishing the installation Use sealing putty to seal off the hole in the wall to here prevent rain and dust from entering.

## PRECAUTIONS IN HIGH HUMIDITY CIRCUMSTANCES

Insulation Material

This air-conditioner has been tested according to the "JIS Standard Conditions with Mist" and have been confirmed that there are no faults. However, if it is operated for a long time in high humid atmosphere (dew point temperature: more than 23°C), water drops are liable to fall. In this case, add heat insulation material according to the following procedures:

Heat insulation material to be prepared. Adiabatic glass wool with thickness 10 to 20 mm.

Stick the wool on all air-conditioners that are located in ceiling atmosphere.

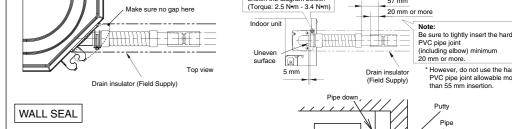
In addition to the normal heat insulation (thickness: more than 10 mm) refrigerant piping (gas piping: thick piping) and drain piping, add a further of 10 mm to 30 mm thickness material.

### HEAT INSULATORS FOR DRAIN PIPING & DRAIN PIPE INSTALLATION . Selection of heat insulation materials for drain piping and drain pipe. When using the heat insulation materials (Field Supply).

Kindly use the same size and performance as refrigerant tubes. Check for its sizes as below table:

Polyethylene foam (same as heat insulators for refrigerant tubes) Insulation thickness must 10mm or greater Hose band Soft PVC socke \* Apply approx. 2 g of adhesive on the side of the hard PVC socket of the drain hose and the side of the hard PVC size identical. \* Drain port may possibly be damaged and cause the water leakage if PVC adhesive is used. Adhere with PVC adhesive

After checking the drainage, fully wrap it with drain insulator (Field Supply) around the drain hose



 When the outdoor unit is installed in a higher position than the indoor unit, install the trap so as not to instill rain water into the wall by transmitting in piping.

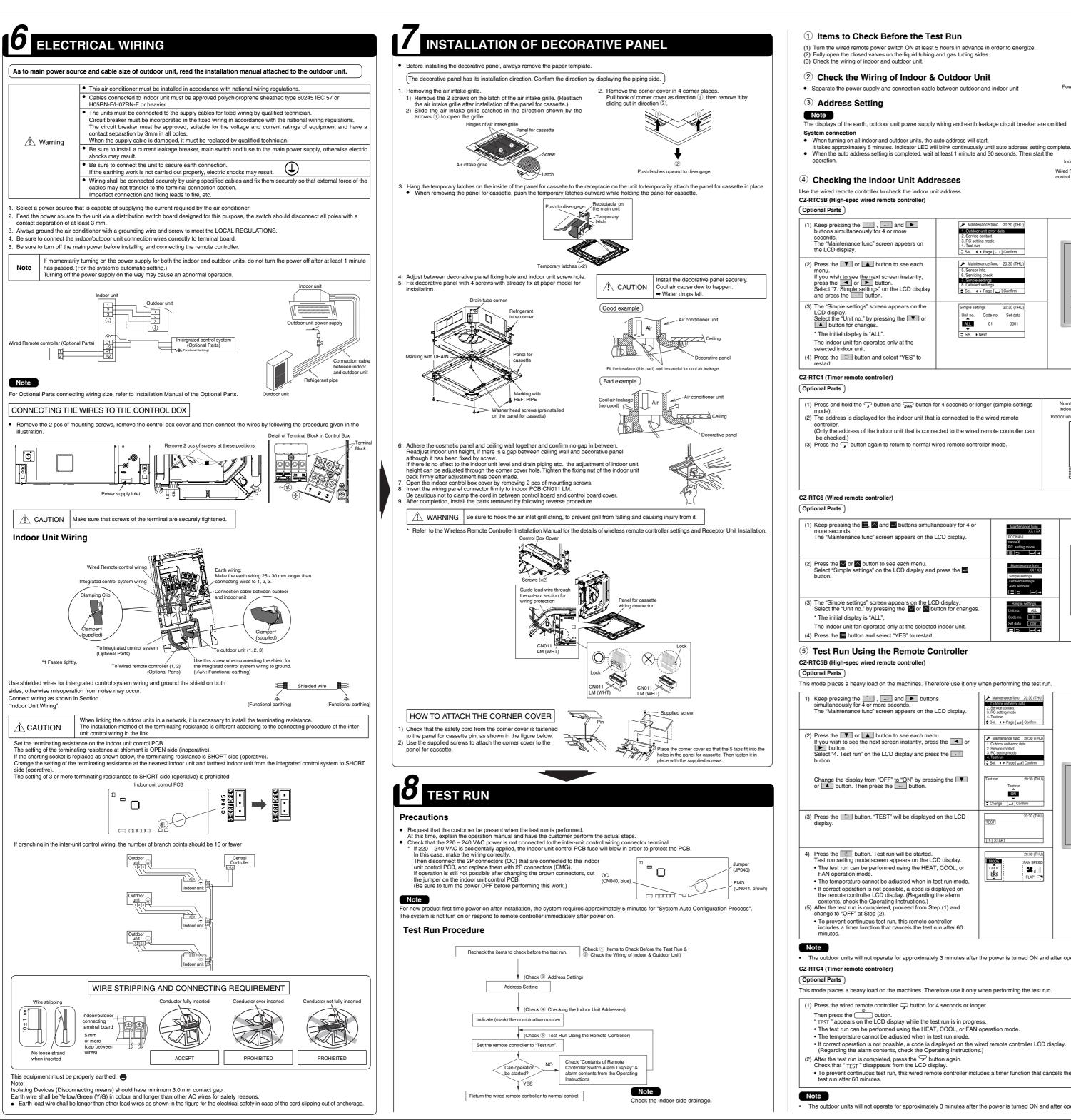
X Do not use adhesive here.

 Stuff the space among piping, the electric wire, and the drain hose with "Putty" and seal the penetration wall hole. Make

sure that rain water does not instill into the wall. Put the incision at the trap part of the heat insulator (for water drainage)

CONTINUE TO THE NEXT PAGE

ACXF60-46931 (1/2) PRINTED IN MALAYSIA



CZ-RTC6 series (Wired Remote Controller) Optional Parts This mode places a heavy load on the machines. Therefore use it only when performing the test run. ) Keep pressing the ■, ▲ and ■ buttons simultaneously for 4 or more seconds. The "Maintenance func" screen appears on the LCD display. Power supply cable Connection cable (Example of Single-Phase Connection) (2) Press the 

or

or

or

or

button to see each menu.

Select "Test run" on the LCD display and press the 

button

under the land of the land Change the display from "OFF" to "ON" by pressing the  ${\color{red} \,\boxtimes\,}$  or  ${\color{red} \,\boxtimes\,}$  button. Then press the  ${\color{red} \,\boxtimes\,}$  button. Indoor unit (3) Press the button. "TEST" will be displayed on the LCD display (4) Press the button. Test run will be started. Test run setting mode screen appears on the LCD display. • The test run can be performed using the HEAT, COOL, or FAN operation mode The temperature cannot be adjusted when in test run mode. If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, check the Operating Instructions.) (5) After the test run is completed, proceed from Step (1) and change to "OFF" at To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes. **→** The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped. **□ ▼ ∪** CARE AND CLEANING WARNING

• For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.

• Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard. Air intake and outlet side (Indoor unit) AIT INTAKE and outlet side (intoor unit)

Clean the air intake and outlet side of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.

If these parts are stained, use a clean cloth moistened with water. When cleaning the air outlet side, be careful not to force the vanes out of place. Number changes to indicate which CAUTION • Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts O 1 XXXX The air filter collects dust and other particles from the air and should be cleaned at regular intervals or when the filter indication (🏢) on the display of the remote controller (wired type) shows that the filter needs cleaning. If the filter gets blocked, the efficiency of the air conditioner drops greatly Period 6 months After Cleaning
1. After the air filter is cleaned, reinstall it in its original position. Be sure to reinstall in reverse order. 2. [In the case of Timer Remote Controller] Press the Filter reset button. The I (Filter) indicator on the display goes out Note The frequency with which the filter should be cleaned depends on the environment in which the unit is used. Clean the filter frequently for best performance in the area of dusty or oil spots regardless of filter status. <How to clean the filter> . Remove the air filter from the air intake grille 2. Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, ≣ ∨ ∧ ↵ ( <How to remove the filter> I. Use a screwdriver to remove the bolt screw on each side for the two latches. (Be sure to reattach the two bolt screws after cleaning.)

This mode places a heavy load on the machines. Therefore use it only when performing the test run

\$ Sel. ◆ Page [→] Confirm \$ Sel. ◆ Page [← ] Confirm 20:30 (THU) \$ Change [→] Confirm 5 ▲ ≔ 20:30 (THU) **□ ▼ 0** 20:30 (THU) \$6<sub>1</sub>|

The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped

• To prevent continuous test run, this wired remote controller includes a timer function that cancels the test run after 60 minutes.

. The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped

2. Slide the latches of the air intake grille in the direction of the inside to open the grille.

When cleaning the air filter, never remove the safety strap. If it is necessary to remove it for servicing and maintenance inside, be sure to reinstall the safety strap securely (hook on the grille side) after the work. CAUTION

Sure to reinstail the safety study security (now in the grine study). And the filter has been removed, rotating parts (such as the fan), electrically charged areas, etc. will be exposed in the unit's

opening. Bear in mind the dangers that these parts and areas pose, and proceed with the work carefully 4. Push the side of the air filter marked with the indication arrow  $\nabla$  and pull it toward you. The air filter will be disengaged

Never use solvents or harsh chemicals when cleaning the indoor unit. Do not wipe plastic parts using very hot water.

The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center.

Refer to the Operating Instructions attached to the optional High-spec Wired Remote Controller or option

 Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken when you clean these parts. CAUTION Periodically check the outdoor unit to see if the air outlet or air intake is clogged with dirt or soot. The internal coil and other components must also be cleaned periodically. Consult your dealer or service center.

Care: After a prolonged idle period
Check the indoor and outdoor unit air intakes and outlets for blockage; if there is a blockage, remove it.

High-spec Wired Remote Controller

Filter indicate

28

Care: Before a prolonged idle period

Operate the fan for half a day to dry out the inside

Disconnect the power supply and also turn off the circuit breaker. Clean the air filter and replace it in its original position.

Outdoor unit internal components must be checked and cleaned periodically. Contact your local dealer for this service.

CHECK THE FOLLOWING ITEMS WHEN INSTALL ATION IS COMPLETE
CHECK THE FOLLOWING ITEMS WHEN INSTALLATION IS COMPLETE

<ul> <li>After completing work, be sure to measure and record trial run properties, and store measuring data, etc.</li> </ul>					
Measuring items are room temperature, outside temperature, suction temperature, blow out temperature, wind velocity wind volume, voltage,					
current, presence of abnormal vibration and no As to the structure and appearance, check the		mpressive pressure, airtight pressure.			
Is circulation of air adequate?	Is there any leakage of refrigerant?	Are the terminal screws loosened?			

Is there any leakage of refrigerant? Is draining smooth? Is remote controller switch operated? Is heat insulation complete

M3...69-98N•cm {7-10kgf•cm} Is there any faulty wiring? M4...157-196N•cm {16-20kgf•cm} (refrigerant and drain piping)? M5...196-245N•cm {20-25kgf•cm}

HAND OVER Optional Parts

• Teach the customer the operation and maintenance procedures, using • Refer to Installation manual of optional parts (sold separately). the operation manual (air filter cleaning, temperature control, etc.)

As for work specifications of the outdoor unit, read the OUTDOOR UNIT INSTALLATION MANUAL attached to the outdoor unit.

**ENGLISH** 

The English text is the original instructions. Other languages are translation of original instructions.

ACXF60-46931 (2/2) PRINTED IN MALAYSIA