Panasonic

Model No.: S-18PF* S-2124PF** S-3448PF**

Spanner

Installation Instruction



This Air Conditioner contains and operates with refrigerant R32.

REFRIGERANT

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

THIS PRODUCT MUST ONLY BE INSTALLED OR SERVICED BY QUALIFIED PERSONNEL

Required tools for Installation Works

Phillips screw driver Flathead screwdriver 8 Reamer 18 N•m (1.8 kgf•m) 42 N•m (4.3 kgf•m Level gauge 9 Knife 55 Nem (5.6 kgfem Electric drill, hole core 10 Gas leak detector 65 Nem (6.6 kgfem drill (ø70 mm) 11 Measuring tape 16 Vacuum pump Hexagonal wrench 12 Thermometer 17 Gauge manifold 13 Megohmmeter

14 Multimeter

CAUTION

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

read carefully. This symbol shows that a service personnel should be	WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.		
This symbol shows that a service personnel should be handling this equipment with reference to the installat	CAUTION	This symbol shows that the Installation Manual should be read carefully.		
Manual.	CAUTION	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

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 indication shows the possibility of causing death or serious injury.
⚠ CAUTION	This indication shows the possibility of causing injury or damage to properties only.

The items to be followed are classified by the symbols

\bigcirc	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 serious injury. 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 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 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 procesure in refrigeration cycle and results in air etc. 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 explode and cause injury or death 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 the 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 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 more 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

For refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical shock or fire.

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

For electrical work, follow the national regulation, legislation and this installation instruction. An independent circuit and single outlet must be used. If electrical circuit

capacity is not enough or defect found in electrical work, it will cause electrical shock or fire.

Do not use joint cable for indoor / outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction ③ **ELECTRICAL WIRING** and onnect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is not perfect, it will

Wire 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 electrical shock.

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. During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping and valves at opened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc.

During 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 cause

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.

Be aware that refrigerants may not contain an odour.

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

/!\ CAUTION

Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may 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 exceed from the liquid refrigerant.

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.

Incorrect 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 property.

Indoor outdoor connection cable Use power supply cord 4 x 2.5 mm² (2.0 ~ 6.0HP) type designation 60245 IEC 57 or heavier cord.

Installation work. It may need two people to carry out the installation work.

Select an installation location which is easy for maintenance

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. However, 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 A_{min} (m²) [Refer to Check of Density Limit] and without any continuously 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 determined according to the refrigerant charge amount [me] used in the appliance. Regarding the refrigerant charge amount [m_c] 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: Installation height of Indoor Unit: hinst Density Limit Line $h_{inst} \ge 2.2 \text{ m}$ Duct units (Horizontal installation 1.8 m ≤ h_{inst} < 2.2 m Duct units (Horizontal installation Line 2 h_{inst} < 1.8 m Duct units (Vertical installation) Line 3 Falling ceiling etc In the ceiling Line 2 Indoor unit

4.6 4.0 4.9 34.4 $h_{inst} \ge 2.2 \text{ m}$ $1.8 \text{ m} \le h_{inst} < 2.2 \text{ m}$ Indoor unit ليا 4.2 5.1 37.9 5.4 41.6 5.1 0.25 m ≤ h_{inst} < 1.8 m 4.4 4.6 5.6 45.4 4.8 $A_{min} = (m_c / (2.5 \times (LFL)^{(5/4)} \times h_0))^2$ Amin = Required minimum room area, in m² = Refrigerant charge in appliance, in kg Lower flammability limit (0.307 kg/m³) the safety factor margin formula below :

= Installation height of the appliance : (Line 1: 2.2 m; Line 2:1.8m; SF = Safety factor with a value of 0.75 Line 3: 0.6 m) The required minimum room area, Amin, shall also be governed by

 $A_{\min} = m_c / (SF \times LFL \times h_0)$ The higher value shall be taken when determining the room area. : Can be installed

 $1.84 < m_{\text{\tiny C}} \leq m_{\text{\tiny max}}$: 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

2.00 2.10 2.20

Part Name	Figure	Q'ty	Remarks	Part Name	Figure	Q'ty	Remarks
Washer	99	8	For suspending indoor unit from ceiling	Filter		*	When not connecting the air
Hose band	8	1	For securing drain hose	Screw	€*	*	intake, be sure to install the filt
Drain hose	000000	1	For main unit + PVC pipe joints	Short-circuit connection		1	For vertical installation (Located on the back of the electrical component box lid.)
Clamper	0	2	For electrical wiring		·		·

* S-18PF** : 1 Q'ty S-2124PF** : 2 Q'ty

ifferent-diameter-tube joint

Following accessories are additionally provided for S-2124PF*** Figure Q'ty Remarks BED Gas socket tube A : $\emptyset15.88 \rightarrow \emptyset12.7$

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.

Liquid socket tube B :ø9.52 → ø6.35

The indoor unit must be free from any obstacles in path of the air inlet and outlet, and must allow spread of air throughout the room. < Horizontal installation > < Vertical installation > * It is necessary to make space for the cleaning as well as the maintenance of the drain pan and the heat exchanger. Do not put any obstacle not to cause obstructing maintenance or cleaning works If the place where the ceiling material cannot be removed, make an opening section below the bottom surface of the indoor unit in order to take it out If it is impossible to provide an opening, make space more than 300 mm between the indoor unit's bottom

surface and the ceiling material. For horizontal installation, if the height from the floor to ceiling exceeds three meters, air flow distribution deteriorates and the effect is decreased.

/!\ WARNING

The installation position must be able to support a load four times the indoor unit weight (For Horizontal Installation Standard Installation). 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 under the section Horizontal Installation 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

Do not install the indoor unit in a laundry. Electric shocks may result 11. Check "Required Minimum Space for Installation and Maintenance Services" for minimum installation height.

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 exchanger 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 conditioner 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.

 Avoid places where inflammable gas is generated, flows-in,

Air conditioner

Air conditioner contaminated, or leaked. 4. Avoid places where sulphurous acid gas or corrosive gas can be

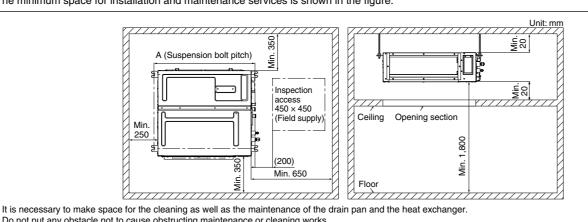
5. Avoid places near high frequency generators.

HOW TO INSTALL THE INDOOR UNIT

■ Middle Static Pressure Duct Type **Required Minimum Space for Installation and Maintenance Services**

• This air conditioner is usually installed above the ceiling so that the indoor unit and ducts are not visible. Only the air intake and air outlet ports are

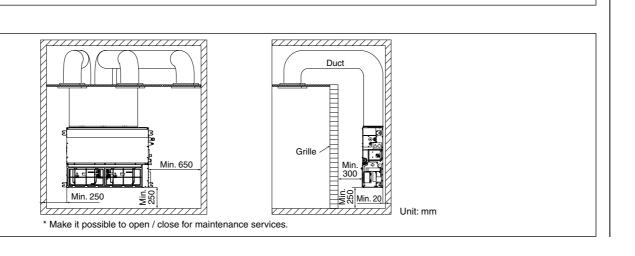
• The minimum space for installation and maintenance services is shown in the figure

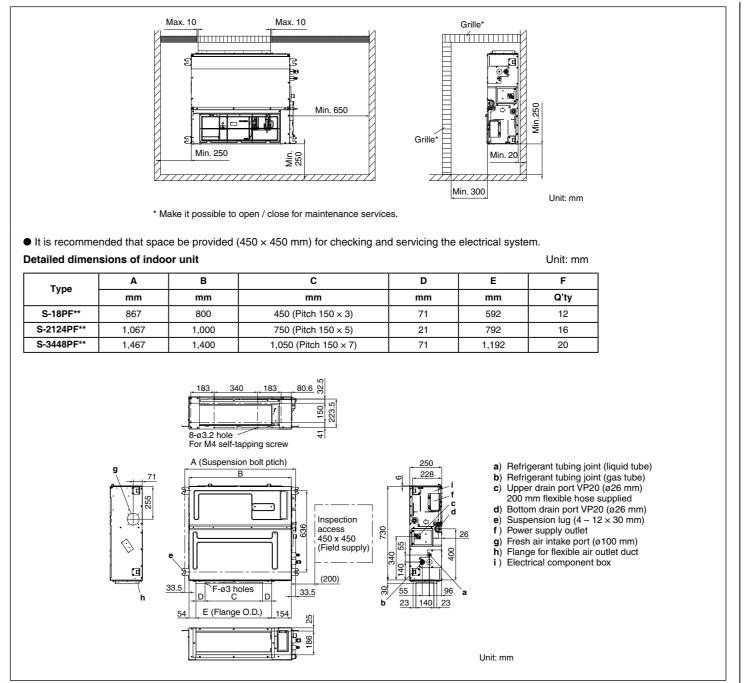


Do not put any obstacle not to cause obstructing maintenance or cleaning works. If the place where the ceiling material cannot be removed, make an opening section below the bottom surface of the indoor unit in order to take it out. If it is impossible to provide an opening, make space more than 300 mm between the indoor unit's bottom surface and the ceiling material.

Minimum space for installation and maintenance services S-18PF** S-2124PF** S-3448PF** A (Length) 867 1,067

< Vertical installation >







Preparation Before Installation Main Types of Installation

Case A (Standard installation) Horizontal installation in the ceiling, rear side air intake

Lower side air intake

Case D Vertical installation on the sidewall, front side air

Case C

Use the ventilation fan fo

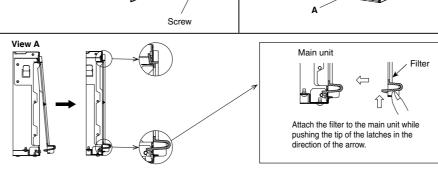
Cooking table

Horizontal installation in the

ceiling, lower side air intake

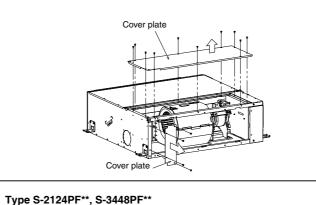
When not connecting the air intake duct, be sure to install the filters (Accessories). Case A and Case C are shown below

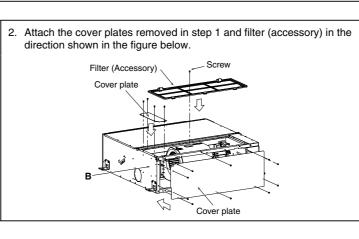
Type S-2124PF**, S-3448PF**



Attach the filters (accessories) in the manner shown in the figure. Securely fix the filters with the screws.

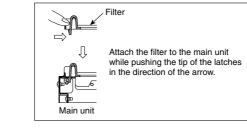
. Remove the cover plates (2 pcs).

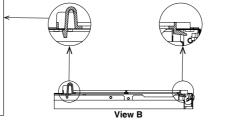




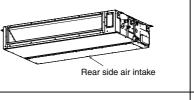
Remove the cover plate and the support plate (Type S-3448PF**

3. Attach the filters (accessories) in the manner shown in the figure. Securely fix the filters with the screws.





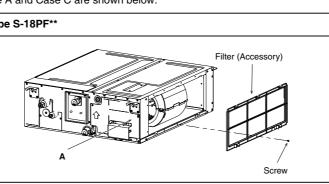
INSTALLATION OF INDOOR UNIT

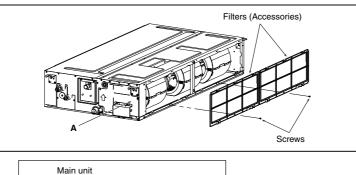


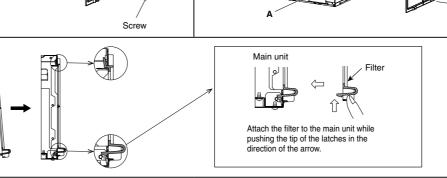
the sidewall. lower side air intake

Vertical installation on

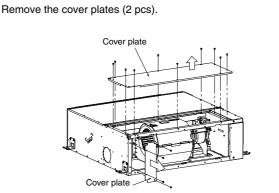
Lower side air intake



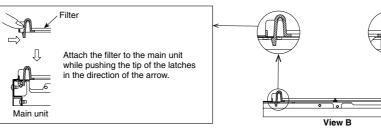




Case B and Case D are shown below. For Case B and Case D, replace the cover plates in the procedure shown in the figure.



Attach the cover plate and the support plate removed in step 1 and filters (accessories) in the direction shown in the figure below

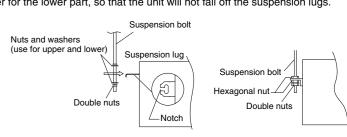


b) Use existing ceiling supports or construct a suitable support

It is important that you use extreme care in supporting the indoor unit inside the ceiling [']!\ WARNING Ensure that the ceiling is strong enough to support the weight of the unit. Before hanging the unit, test the strength of each attached suspension bolt.

(1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts referring to the dimensional data as shown in the tables and diagrams under the section Required Minimum Space for Installation and Maintenance Services. Tubing must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing into position for connection to the unit before placing the unit inside the ceiling.

2) Screw in the suspension bolts allowing them to protrude from the ceiling. (Cut the ceiling material, if necessary.) (3) Thread the 3 hexagonal nuts and 2 washers (field supply) onto each of the 4 suspension bolts. Use 1 nut and 1 washer for the upper part, and 2 nuts (double nuts) and 1 washer for the lower part, so that the unit will not fall off the suspension lugs.



This shows an example of installation

Fix the Indoor Unit

a) Insert suspension bolts

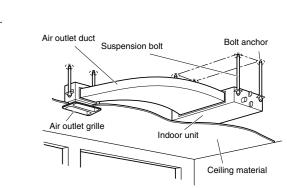
Hole-in-plug Concrete

(field supply)

Suspension bolt (M10 or 3/8)

Horizontal Installation Depending on the ceiling type:.

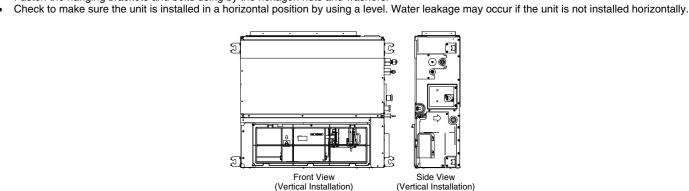
Hole-in-anchor



Vertical Installation

To prevent overturning, fasten the unit to the wall securely. · Check to make sure the wall can endure 5 times of weight of the unit. Ensure to fix the unit.

In order to suppress vibrations, provide the spacer between the unit and the wall. Fasten the hanging brackets and bolts using by the hexagon nuts and washers.



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 tighten the flare nut with fingers. Further tighten the flare nut with torque wrence

Seal sufficiently the flare nut (both gas and liquid sides) with neutral cure (Alkoxy type) & ammonia-free silicone sealant and insulation material to avoid the gas leak caused by freezing. * Use of silicon containing ammonia can lead to stress in specified torque as stated in the table. 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.

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

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 connecting piping. After completing the piping connection, be sure to check if there is gas leakage in indoor and outdoor connection.

 Confirm the union (thin side) is always at lower direction after /!\ CAUTION | Use two wrenches and tighten with regular torque.

Flare nut fastening torque N•m (kgf•cm)

ø6.35 mm | 18 (180) | ø12.7 mm | 55 (560)

ø9.52 mm | 42 (430) | ø15.88 mm | 65 (660)

ø9.52 (3/8)

ø15.88 (5/8)

Refrigerant is charged to the outdoor unit. For details, see the manual for

installation work of outdoor unit. (Additional charging, etc.)

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

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

VACUUM DRYING After completing the piping connection, execute vacuum drying for the connecting piping and the indoor unit. The vacuum drying must be carried out by using the service ports of both

the liquid and gas side valves.

 When using with single connection Outdoor PZ3 series (Type 21)

S-2124PF* ø6.35 (1/4) {ø9.52 (3/8)} ø6.35(1/4) ø12.70 (1/2) {ø15.88 (5/8)} ø12.70 (1/2) mm (in)

Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-2124PF*** The size of "{ }" indicates the connection tube diameter when using the different-diameter-tube joint. How to use different-diameter-tube joint (supplied)

Liquid tube (ø6.35) Connect the gas socket tube A (Ø12.7 - Ø15.88) to the gas tubing side indoor unit • Outdoor PZ3 series (Type 24)

Connect the liquid socket tube B (ø6.35 - ø9.52) to the liquid tubing side indoor unit

Liquid tube (ø6.35) Gas tube (ø15.88) Connect the liquid socket tube B (ø6.35 - ø9.52) to the liquid tubing side indoor unit

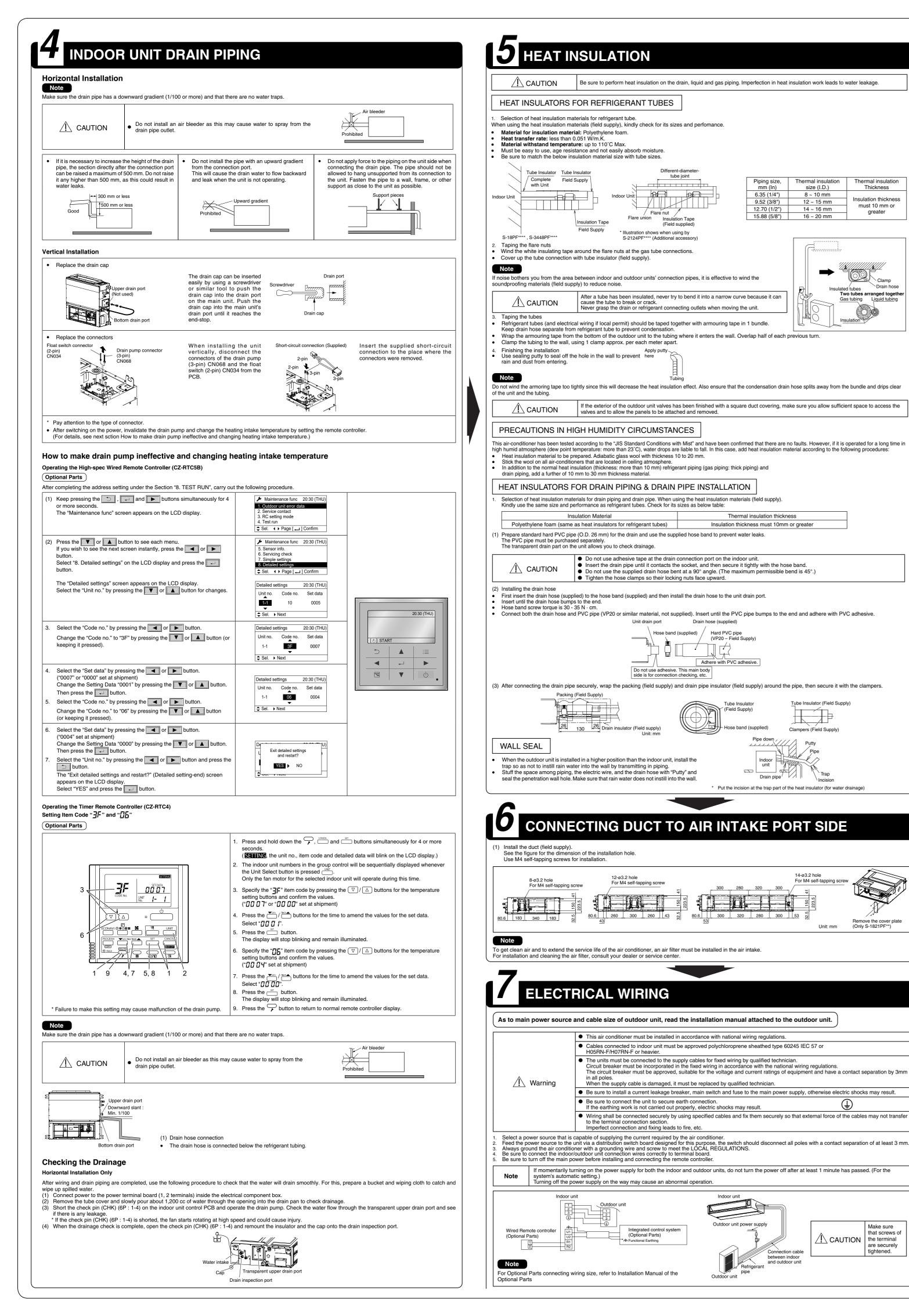


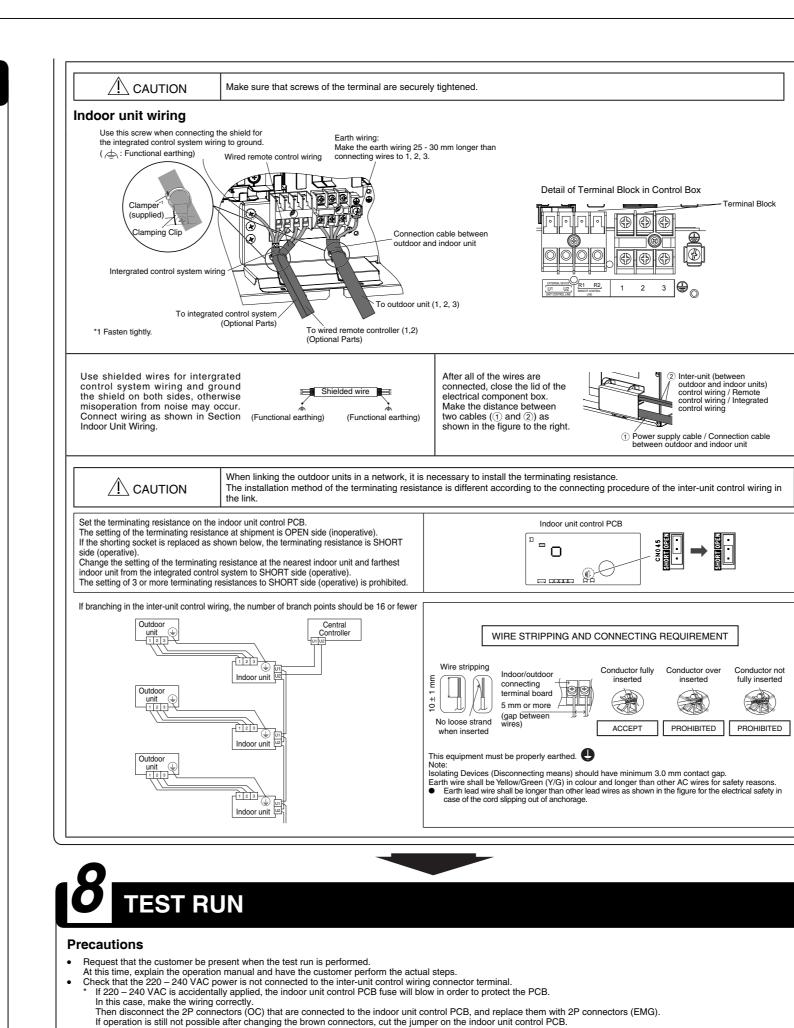
Apply neutral cure (Alkoxy

type) and ammonia-fre

silicone sealant along the







Thermal insulation

size (I.D.)

8 ~ 10 mm

9.52 (3/8") 12 ~ 15 mm

12.70 (1/2") 14 ~ 16 mm

15.88 (5/8") 16 ~ 20 mm

Thermal insulation

Insulation thicknes

must 10 mm or

greater

Drain hose

Two tubes arranged together

Piping size,

mm (In)

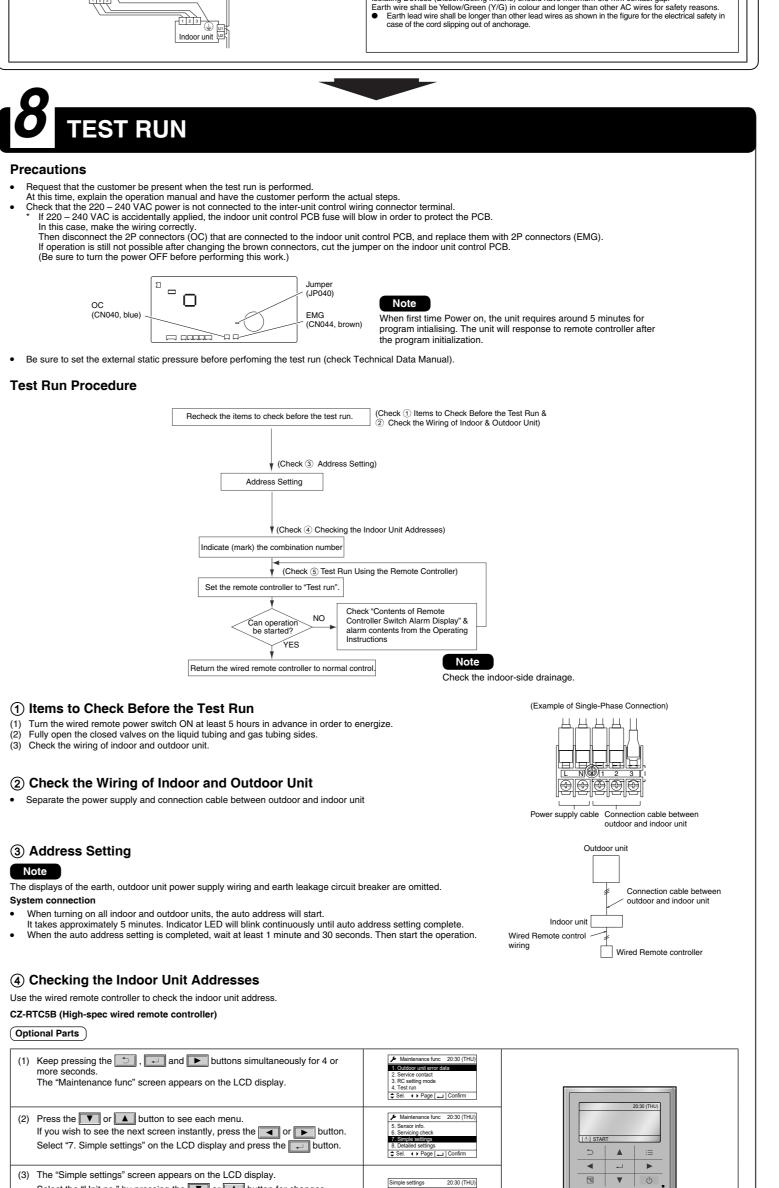
Thermal insulation thickness

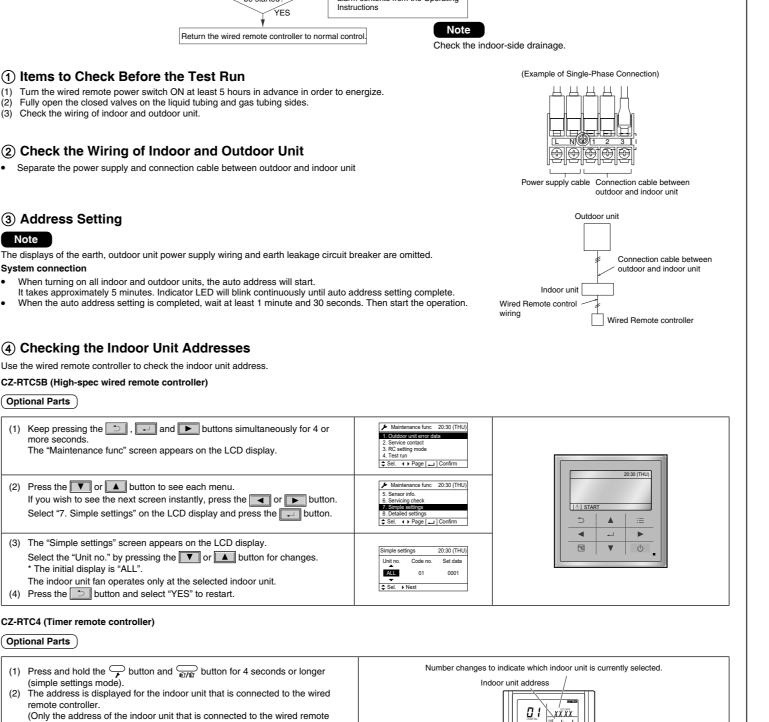
Insulation thickness must 10mm or greater

Tube Insulator (Field Supply)

Put the incision at the trap part of the heat insulator (for water drainage

Adhere with PVC adhesive





* The initial display is "ALL"

(simple settings mode)

controller can be checked.)

Press the button again to return to normal wired remote controller mode.

remote controller

Optional Parts

Make sure

are securely

/! CAUTION | the terminal

that screws of

The "Maintenance func" screen appears on the LCD display. Sel. ♦ Page [☐] Confirm (2) Press the vor button to see each menu. If you wish to see the next screen instantly, press the or button. Select "4. Test run" on the LCD display and press the Jutton. Change the display from "OFF" to "ON" by pressing the v or button Then press the button. **□ V** (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 5) After the test run is completed, proceed from Step (1) and change to "OFF" at Step (2). • To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes. Note • The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped CZ-RTC4 (Timer remote controller Optional Parts This mode places a heavy load on the machines. Therefore use it only when performing the test run. Press the wired remote controller button for 4 seconds or longer. Then press the button. "TEST" appears on the LCD display while the test run is in progress. 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 wired remote controller LCD display. (Regarding the alarm contents, check the Operating Instructions.) After the test run is completed, press the button again. Check that "TEST" disappears from the LCD display. (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. 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. (1) Keep pressing the 🗮, 🛆 and 🚭 buttons simultaneously for 4 or more The "Maintenance func" screen appears on the LCD display. (2) Press the or button to see each menu.

Select "Test run" on the LCD display and press the button Change the display from "OFF" to "ON" by pressing the or button. Then press the Lutton. (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 (5) After the test run is completed, proceed from Step (1) and change to "OFF" at Step (2). • To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes Note . The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped. CARE AND CLEANING • For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning. /!\ WARNING Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard. 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. Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts. • The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center. 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. 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 [[Hitter]] (Filter) indicator on the display goes out. High-spec Wired Remote Controller [In the case of High-spec Wired Remote Controller and Filter indicator Refer to the Operating Instructions attached to the optional High-spec Wired Remote Controller or optional Filter reset button ... 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 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, and dry it. <How to remove the filter> Remove the filter in reverse order of the section "Install the Filter" In case of Installing the Duct (field supply) Period (Depends on filter's specifications) When cleaning the air filter, consult your dealer or service center. Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken 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 Care: Before a prolonged idle period Operate the fan for half a day to dry out the inside connect 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 INSTALLATION IS COMPLETE • After completing work, be sure to measure and record trial run properties, and store measuring data, etc. Measuring items are room temperature, outside temperature, suction temperature, blow out temperature, wind velocity wind volume, voltage, current, presence of abnormal vibration and noise, operating pressure, piping temperature, compressive pressure, airtight pressure. As to the structure and appearance, check the following items Is circulation of air adequate? Is there any leakage of refrigerant? Are the terminal screws loosened? M3...69-98N•cm {7-10kgf•cm} ____ Is draining smooth? Is remote controller switch operated? M4...157-196Necm {16-20kgfecm} Is heat insulation complete (refrigerant and drain piping)? M5...196-245N•cm {20-25kgf•cm} HAND OVER Optional Parts

• Teach the customer the operation and maintenance procedures, using

Other languages are translation of original instructions.

the operation manual (air filter cleaning, temperature control, etc.)

The English text is the original instructions.

CZ-RTC6 series (Wired Remote Controller)

* The initial display is "ALL".

Optional Parts

(1) Keep pressing the E, \triangle and \leftarrow buttons simultaneously for 4 or more

Select "Simple settings" on the LCD display and press the button

1) Keep pressing the , and buttons simultaneously for 4 or

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

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◀ ↓

The "Maintenance func" screen appears on the LCD display.

(3) The "Simple settings" screen appears on the LCD display.

Select the "Unit no." by pressing the or button for changes.

The indoor unit fan operates only at the selected indoor unit.

(2) Press the vor button to see each menu.

(4) Press the button and select "YES" to restart

CZ-RTC5B (High-spec wired remote controller)

(5) Test Run Using the Remote Controller



Refer to Installation manual of optional parts (sold separately).

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