CASSETTE TYPE INDOOR UNIT

- OPERATION MANUAL INSTALLATION MANUAL
 - MANUALE DI ISTRUZIONI
 MANUALE DI INSTALLAZIONE
- MANUEL D'INSTRUCTIONS MANUEL D'INSTALLATION
- BEDIENUNGSANLEITUNG INSTALLATIONSANLEITUNG
- MANUAL DE INSTRUCCIONES MANUAL DE INSTALACIÓN
- MANUAL DE OPERAÇÕES MANUAL DE INSTALAÇÃO

AB052MCERA(M)

AB072MCERA(M)

AB092MCERA(M)

AB122MCERA(M)

AB162MCERA(M)

AB182MCERA(M)

- Please read this manual carefully before using.
- Keep this operation manual for future reference.
 Original instructions

ORIGINAL MANUAL







EUROPEAN REGULATIONS CONFORMITY FOR THE MODELS:

CE

All the products are in conformity with the following European provision:

- Low Voltage Directive
- Electromagnetic CompatibilitY

ROHS

The products are fulfilled with the requirements in the directive 2011/65/UE of the European parliament and of the council on the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment (EU RoHS Directive).

WEEE

In accordance with the directive 2012/19/UE of the European parliament, herewith we inform the consumer about the disposal requirements of the electrical and electronic products.

DISPOSAL REQUIREMENTS:



Your air conditioning product is marked with this symbol. This means that electrical and electronic products shall not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the air conditioning system, treatment of the refrigerant, of oil and of other part must be done by a qualified

installer in accordance with relevant local and national legislation. Air conditioners must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. Please contact the installer or local authority for more information. Battery must be removed from the remote controller and disposed of separately in accordance with relevant local and national legislation.



CONFORMITÀ ALLE DIRETTIVE EUROPEE PER I MODELLI:

CE

Tutti i prodotti sono conformi alle seguenti normative europee:

- Direttiva Basso Voltaggio
- Direttiva Compatibilità elettromagnetica

ROHS

Il prodotto è conforme alla normativa 2011/65/UE sulla restrizione d'uso di sostanze inquinanti negli apparecchi elettrici ed elettronici.

WEEE

Informativa al consumatore come previsto dalla normativa europea 2012/19/UE riguardante i rifiuti di apparecchiature elettriche ed elettroniche.

SPECIFICHE DI SMALTIMENTO:



Il climatizzatore è contrassegnato con questo simbolo, ciò significa che i prodotti elettrici ed elettronici non possono essere smaltiti insieme ai rifiuti domestici non differenziati. Non cercare di demolire il sistema da soli: la demolizioni dei sistemi di condizionamento, nonché il recupero del refrigerante, dell'olio e di qualsiasi altra parte

devono essere eseguiti da un installatore qualificato in conformità alla legislazione locale e nazionale vigente in materia. I climatizzatori devo essere trattati presso una struttura specializzata nel riutilizzo, riciclaggio e recupero dei materiali. Il corretto smaltimento del prodotto eviterà le possibili conseguenze negative all'ambiente e alla salute dell'uomo. Per maggiori informazioni contattare l'installatore o le autorità locali. Le batterie devono essere tolte dal telecomando e smaltite separatamente conformemente alla legislazione locale e nazionale vigente in materia.



CONFORMITÉ AUX DIRECTIVES EUROPÉENNES POUR LES MODÈLES:

CE

Tous les produits sont conformes aux directives européennes suivantes:

- Directive Basse tension
- Directive Compatibilité électromagnétique

ROHS

L'appareil est conforme à la directive 2011/65/UE relative à la limitation de l'utilisation de certains substances dangereuses dans les équipements électriques et électroniques.

DEEE (WEEE)

Information au consommateur comme le prévoit la directive européenne 2012/19/UE relative aux déchets d'équipements électriques et électroniques.

Protection de l'environnement:



Ce symbole présent sur le produit ou sur l'emballage indique que ce produit ne peut en aucun cas être traité comme déchet ménager. Il doit par conséquent être remis à un centre de collecte de déchets chargé du recyclage des équipements électriques et électroniques. La collecte et le recyclage séparés de vos déchets au moment de l'élimination contribuera à conserver

les ressources naturelles et à garantir un recyclage respectueux de l'environnement et de la santé humaine. Pour obtenir de plus amples renseignements sur le lieu de collecte des déchets adressez-vous à un centre de service agréé ou à votre revendeur. N'essayez pas de démonter vous-même le système: le démontage du système ainsi que le traitement du réfrigérant, de l'huile et d'autres composants doivent être effectués par un installateur qualifié, en accord avec les réglementations locales et nationales en vigueur. Les unités et piles usagées doivent être traitées dans des installations spécialisées de dépannage, réutilisation ou recyclage.









ÜBEREINSTIMMUNG MIT DEN EUROPÄISCHEN RICHTLINIEN FÜR DIE MODELLE:

CE

Alle Produkte erfüllen die folgenden europäischen Richtlinien:

- Niederspannungsrichtlinie
- EMV-Richtlinie

ROHS

Das Produkt erfüllt die Richtlinie 2011/65/UE zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten.

WEEE

Verbraucherinformation laut europäischer Richtlinie 2012/19/UE zu Elektro-und Elektronik-Altgeräten.

HINWEISE ZUR ENTSORGUNG:



Das Klimagerät ist mit diesem Symbol gekennzeichnet, das darauf hinweist, dass Elektro- und Elektronikgeräte getrennt vom Hausmüll entsorgt werden müssen. Verschrotten Sie die Anlage nicht selbst: die Verschrottung von Klimaanlagen, sowie die Rückgewinnung des Kältemittels, des Öls und aller sonstigen Teile

müssen durch einen qualifizierten Installateur in Übereinstimmung mit den einschlägigen geltenden örtlichen und nationalen Vorschriften erfolgen. Die Klimageräte müssen bei einem Unternehmen entsorgt werden, das auf die Verwertung, das Recycling und die Rückgewinnung der Materialien spezialisiert ist. Die richtige Entsorgung des Produkts hilft negative Auswirkungen auf Umwelt und Gesundheit zu vermeiden. Für weitere Informationen wenden Sie sich bitte an den Installateur oder die örtlichen Behörden. Die Batterien müssen aus der Fernbedienung entfernt und in Übereinstimmung mit den einschlägigen geltenden örtlichen und nationalen Vorschriften getrennt entsorgt werden.

ES

CONFORMIDAD EUROPEA DE LAS REGULACIONES PARA LOS MODELOS:

CE

Todos los productos están en conformidad con las siguientes Normativas Europeas:

- Bajo Voltaje directiva
- Compatibilidad electromagnética

ROHS

Los productos cumplen los requisitos de la directiva 2011/65/ UE del parla-mento Europeo y el consejo regulador Del uso de materiales peligrosos en equipamientos eléctricos Y electrónicos. (EU RoHS Directiva).

WEEE

De acuerdo con la directiva 2012/19/UE del parlamento Europeo, Informa-mos al consumidor acerca del reciclage de los productos Electrónicos y eléctricos.

REQUISITOS PARA LA ELIMINACIÓN:



Su acondicionador de aire está marcado con este símbolo. Esto significa que los productos eléctricos y electrónicos no deben mezclarse con el resto de residuos domésticos no clasificados. No intente desmontar el sistema usted mismo: El desmantelamiento del acondicionador de aire, así como el tratamiento del refrigerante, aceite y

otros componentes, debe ser efectuado por un instalador competente de acuerdo con las normas locales y nacionales aplicables. Los acondicionadores de aire deben ser tratados en instalaciones especializadas para su reutilización, reciclaje y recuperación. Al asegurarse de desechar este producto de la forma correcta, està contribuyendo a evitar posibles consecuencias negativas para el entorno y para la salud de las personas. Contacte, por favor, con el instalador o con las autoridades locales para obtener más información. Las pilas del control remoto deben extraerse y eliminarse por sepa-rado y de acuerdo con la normativa local y nacional aplicable.



CONFORMIDADE DE REGULAMENTAÇÕES EUROPEIAS PARA OS MODELOS:

CE

Todos os produtos estão em conformidade com as seguintes provisões europeias:

- -Directiva de Baixa voltagem
- -Compatibilidade Electromagnética

ROHS

Os produtos satisfazem os requisitos da directiva 2011/65/EU do Parlamento Europeu e do Conselho para a Restrição do Uso de Certas Substâncias Perigosas em Equipamentos Eléctricos e Electrónicos (EU, Directiva ROHS)

WEEE

De acordo com a directiva 2012/19/EU do Parlamento Europeu, informamos conjuntamente os consumidores sobre os requisitos de eliminação dos produtos eléctricos e electrónicos.

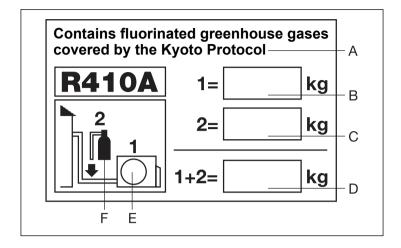
REQUISITOS DE ELIMINAÇÃO:



O seu produto de ar condicionado está marcado com este símbolo. Isto significa que os produtos eléctricos e electrónicos não devem ser misturados com os desperdícios domésticos não separados. Não tente desmontar o sistema por si próprio: a desmontagem do sistema de ar condicionado, tratamento do

refrigerante, do óleo e de outras partes deve ser feita por um instalador qualificado de acordo com a legislação relevante local e nacional. Ares condicionadosdevem ser tratados numa instalação especializada de tratamento para reutilização, reciclagem e recuperação. Ao assegurar que o produto é eliminado correctamente, estará a ajudar a prevenir potenciais consequências negativas para o ambiente e para a saúde humana. Por favor, contacte o instalador ou autoridade local para mais informações. A bateria deve ser removida do controlador remoto e eliminada separadamente de acordo com a legislação relevante local e nacional.







IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

This product contains fluorinated greenhouse gases covered by the Kyoto Protocol. **Do not vent into the atmosphere.**

Refrigerant type: **R410A** GWP* value: **2088**

*GWP = global warming potential

Please fill in with indelible ink,

- the factory refrigerant charge of the product
- 2 the additional refrigerant amount charged in the field and
- 1+2 the total refrigerant charge

on the refrigerant charge label supplied with the product.

The filled out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).

- A contains fluorinated greenhouse gases covered by the Kyoto Protocol
- B factory refrigerant charge of the product: see unit name plate
- C additional refrigerant amount charged in the field
- D total refrigerant charge
- E outdoor unit
- F refrigerant cylinder and manifold for charging



INFORMAZIONI IMPORTANTI SUL REFRIGERANTE UTILIZZATO

Questo prodotto contiene gas fluorurati ad effetto serra inclusi nel Protocollo di Kyoto. **Non liberare tali gas nell'atmosfera.**

Tipo di refrigerante: R410A Valore GWP*: **2088**

*GWP = potenziale di riscaldamento globale

Compilare con inchiostro indelebile,

- 1 la carica di refrigerante di fabbrica del prodotto
- 2 la quantità di refrigerante aggiuntiva nel campo e
- 1+2 la carica di refrigerante totale

sull'etichetta di carica del refrigerante fornita con il prodotto

L'etichetta compilata deve essere collocata in prossimità della portata di cari-ca del prodotto (ad esempio, nell'interno del coperchio della valvola d'inter-cettazione).

- A contiene gas fluorurati ad effetto serra inclusi nel protocollo di Kyoto
- B carica di refrigerante di fabbrica del prodotto: vedi targhetta con il nome dell'unità
- C quantità di refrigerante aggiuntiva nel campo
- D carica di refrigerante totale
- E unità esterna
- F cilindro del refrigerante e collettore di carica



INFORMATION IMPORTANTE RELATIVE AU RÉFRIGÉRANT UTILISÉ

Ce produit contient des gaz à effet de serre fluorés encadrés par le protoco-le de Kyoto. **Ne pas laisser les gaz s'échapper dans l'atmosphère.**

Type de réfrigérant: **R410A** Valeur GWP*: **2088**

*GWP = potentiel de réchauffement global

Prière de compléter à l'encre indélébile,

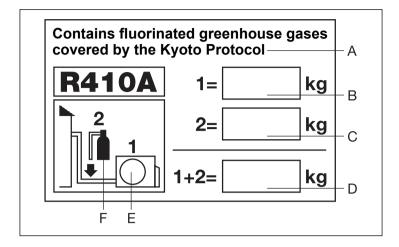
- 1 la charge de réfrigérant d'usine du produit
- 2 la quantité de réfrigérant supplémentaire chargée sur place et F
- 1+2 la charge de réfrigérant totale

sur l'étiquette de charge de réfrigérant fournie avec le produit.

L'étiquette complétée doit être apposée à proximité de l'orifice de recharge du produit (par ex. à l'intérieur du couvercle de la vanne d'arrêt).

- A contient des gaz à effet de serre fluorés encadrés par le protocole de Kyoto
- B charge de réfrigérant d'usine du produit: voir plaquette signalétique de l'unité
- C quantité de réfrigérant supplémentaire chargée sur place
- D charge de réfrigérant totale
- E unité extérieure
- F cylindre de réfrigérant et collecteur de recharge







WICHTIGE INFORMATIONEN HINSICHTLICH DES VERWENDETEN KÄLTEMITTELS

Dieses Produkt enthält fluorierte Treibhausgase, die durch das Kyoto-Proto-koll abgedeckt werden. Lassen Sie Gase nicht in die Atmosphäre ab.

Kältemitteltyp: **R410A**GWP* Wert: **2088**

*GWP = Treibhauspotential

Bitte füllen Sie am Kältemittelbefülletikett, das im Lieferumfang des Gerätes enthalten ist, mit abriebfester Tinte wie folgt aus:

- 1 die werkseitige Kältemittelbefüllung des Produktes
- 2 die am Montageort befüllte zusätzliche Kältemittelmenge und
- 1+2 die gesamte Kältemittelbefüllung

Das ausgefüllte Etikett muss in der Nähe der Kältemittel-Einfüllöffnung angehängt werden (z. B. auf der Innenseite der Absperrventilabdeckung).

- A Enthält fluorierte Treibhausgase, die durch das Kyoto-ProtoKoll abgedeckt werden
- B werkseitige Kältemittelbefüllung des Produktes: siehe Typenschild der Einheit
- C zusätzliche am Montageort befüllen Kältemittelmenge
- D gesamte Kältemittelbefüllung
- E Außeneinheit
- F Kältemittelzylinder und Sammelleitung für die Befüllung



INFORMACIÓN IMPORTANTE EN RELACIÓN AL REFRIGERANTE UTILIZADO

Este producto contiene los gases fluorados de efecto invernadora regulados por el Protocolo de Kioto. **No vierta gases a la atmósfera.**

Tipo de refrigerante: R410A

Valor GWP*: 2088

*GWP = Potencial de calentamiento global

Rellene con tinta indeleble,

- 1 la carga de refrigerante de fábrica del producto
- 2 la cantidad adicional de refrigerante cargado en campo y
- 1+2 la carga total de refrigerante

En la etiqueta de carga de refrigerante suministrada con el producto.

La etiqueta rellenada debe pegarse cerca de la conexión de carga del producto (p.ej. en el interior de la cubierta de la válvula de tope).

- A Contiene los gases fluorados de efecto invernadora regulados por el Protocolo de Kioto
- B Carga de refrigerante de fábrica del producto: véase placa de especificaciones técnicas de la unidad
- C Cantidad adicional de refrigerante cargado en campo
- D Carga total de refrigerante
- E Unidad exterior
- F Cilindro del refrigerante y dosificador de carga



INFORMAÇÃO IMPORTANTE RELATIVA AO REFRIGERANTE USADO

Este produto contém gases fluorados com efeito de estufa cobridos pelo Protocolo de Quioto. **Não liberte gases para a atmosfera.**

Tipo de refrigerante: R410A

GWP*: 2088

*GWP=global warming potential (potencial deaquecimento global)

Por favor, preencha com tinta indelével.

- 1 o carregamento de refrigerante de fábrica do produto
- 2 a quantidade adicional de refrigerante carregado no local e
- 1+2 carregamento do refrigerante total na etiqueta de carregamento do refrigerante fornecido com o produto.

A etiqueta preenchida deve ser fixada na proximidade da porta de carregamento do produto (por exemplo, na parede interior da tampa de valor de paragem).

- A contém gases fluorados com efeito de estufa cobridos pelo Protocolo de Quioto
- B carregamento de refrigerante de fábrica do produto: ver placa com nome de unidade
- C quantidade adicional de refrigerante carregado no local
- D carregamento de refrigerante total
- E unidade exterior
- F cilindro de refrigerante e colector para carregamento

Indoor Unit Operation & Installation Manual

AB052MCERA(M)

AB072MCERA(M)

AB092MCERA(M)

AB122MCERA(M)

AB162MCERA(M)

AB182MCERA(M)

- Please read this manual carefully before using.
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 Original instructions

User Manual

Contents	
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Fault Checkup	
Installation Procedures	7
Electrical Wiring	14
Test Run & Fault Code	19
Move and scrap the air conditioning	20
Electrical Wiring Test Run & Fault Code	14 19

Your air conditioner may be subject to any change owing to the improvement of Haier products.

MRV series multiple air conditioning systems adopt the consistent running mode, by which, all indoor units can only be heating or refrigerating operation at the same time.

To protect the compressor, the air conditioning unit should be powered on for over 12 hours before using it.

All indoor units of the same refrigerating system should use the unified power switch to ensure that all indoor units are in the state of being powered on at the same time during the operation of air conditioner.

Product Features:

- 1. Hanging-style installation to save space;
- 2. Automatic display of faults;
- 3. Function of central control (optional from our company).
- 4. The air conditioner is provided with the function of compensation for power supply. During operation, when the power supply fails emergently and resumes again, the air conditioner returns to the working condition before power failure, if provided with compensation function.
- 5. The operating methods and functions are same although the shapes of indoor units are different.
- 6. Now this indoor unit only has wired controller function, the indoor unit that has remote controller function need to set in factory especially.

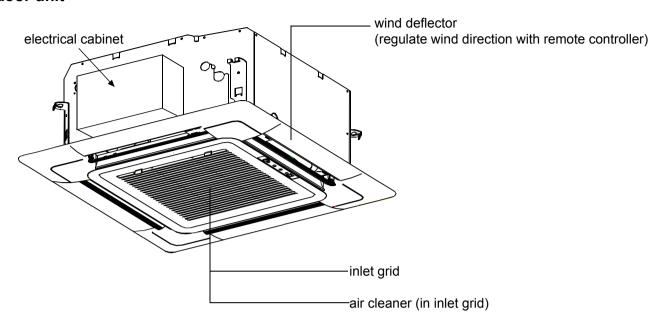
Operating Range of Air Conditioner							
	lundo e u	Max.	DB:32°C	WB:23°C			
Cooling	Indoor	Min.	DB:18°C	WB:14°C			
dry	Outdoor	Max.	DB:43°C	WB:26°C			
	Outdoor	Min.	DB:-5°C				
	Indoor	Max.	DB:27°C				
Hooting	IIIuuui	Min.	DB:15°C				
Heating -	Outdoor	Max.	DB:21°C	WB:15°C			
	Outdool	Min.	DB:-15°C				

Warning

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- The appliances are not intended to be operated by means of an external timer or separate remote-control system.
- Keep the appliance and its cord out of reach of children less than 8 years.

Parts and Functions

Indoor unit



Safety

- If the air conditioner is transferred to a new user, this manual shall be transferred to the user, together with the conditioner.
- Before installation, be sure to read Safety Considerations in this manual for proper installation.
- The safety considerations stated below is divided into "AWarning" and "A Attention". The matters on severe accidents caused from wrong installation, which is likely to lead to death or serious injury, are listed in "AWarning". However, the matters listed in "A Attention" are also likely cause the severe accidents. In general, both of them are the important items related to the security, which should be strictly abided by.
- After the installation, perform test run to make sure everything is in normal conditions, and then operate and maintain
 the air conditioner in accordance with the User Manual. The User Manual should be delivered to the user for proper
 keeping.

∆WARNING

- Please ask the special maintenance station for installation and repair. Water leakage, electric shocks or fire accidents might be caused from improper installation if you conduct the installation by your own.
- The installation should be conducted properly according to this manual. Water leakage, electric shocks or fire accidents might be caused from improper installation.
- Please make sure to install the air conditioner on the place where can bear the weight of the air conditioner. The air conditioner can't be installed on the grids such as the non-special metal burglar-proof net. The place with insufficient support strength might cause the dropdown of the machine, which may lead to personal injuries.
- The installation should be ensured against typhoons and earthquakes, etc. The installation unconformable to the requirements will lead to accidents due to the turnover of the machine.
- Specific cables should be used for reliable connections of the wirings. Please fix the terminal connections reliably to
 avoid the outside force applied on the cables from being impressed on the cables. Improper connections and fixings
 might lead to such accidents as heating or fire accidents.
- Correct shapes of wirings should be kept while the embossed shape is not allowed. The wirings should be reliably connected to avoid the cover and the plate of the electrical cabinet lipping the wiring. Improper installation might cause such accidents as heating or fire accidents.
- While placing or reinstalling the air conditioner, except the specific refrigerant (R410A), don't let the air go into the refrigeration cycle system. The air in the refrigeration cycle system might lead to the cracking or personal injuries due to abnormal high pressure of the refrigeration cycle system.
- During installation, please use the accompanied spare parts or specific parts. If not, water leakage, electric shocks, fire accidents or refrigerant leakage might be caused.
- Don't drain the water from the drainpipe to the waterspout where may exist harmful gases such as sulfureted gas to avoid the harmful gases entering into the room.
- During installation, if refrigerant leakage occurs, ventilation measures should be taken, for the refrigerant gas might generate harmful gases upon contacting the flame.
- After installation, check if any refrigerant leakage exists. If the refrigerant gas leaks in the room, such things as air blowing heaters and stoves, etc. may generate harmful gases.
- Don't install the air conditioner at the places where the flammable gases may leak. In case the gas leakage occurs around the machine, such accidents as fire disasters may be caused.
- The drainpipe should be properly mounted according to this manual as to ensure the smooth drainage. In addition, heat preservation should be taken to avoid condensation. Improper drainpipe mounting might cause water leakage, which will get the articles at home wet.
- The refrigerant gas pipe and liquid pipe should be heat insulated to preserve heat. For inappropriate heat insulation, the water caused from the condensation will drop to get the article at home wet.

Safety

Notices during Operation

∆CAUTION

- The air conditioner should be effectively grounded. Electric shocks may occur if the air conditioner is ungrounded or inappropriately grounded. The wire for earthing shouldn't be connected to the connections on the gas pipe, water pipe, lightning rod or telephone.
- The breaker for electricity leakage should be mounted. If not, accidents such as electric shocks may happen.
- The installed air conditioner should be checked for electricity leakage by being powered.
- If the ambient humidity bigger than 80%, when the water discharge hole be blocked or the filter becomes dirty, or airflow speed change, there maybe leads to condensing water drop down, and at the same time there maybe some drops of water spit out.

- It is not allowed to put any heating apparatus under the indoor units, for the heat may cause distortion of the units.
- · Pay attention to the aeration condition to avoid anoxic symptom.
- · Flammable apparatus should not be placed in the place where the air conditioner wind could reach directly, or incomplete burning of the apparatus may be caused.
- Check the mount table of the air conditioner for damage for a long period of operation. If placed on the damaged table, the unit may drop down causing damage.
- · Plants and animals should not be put to the place where wind of the air conditioner blows directly, otherwise damage to them may be caused.
- · It cannot be used for the preservation of food, living creature, precise instrument and artworks, etc. otherwise damage may occur.
- · Use the fuse with proper capacity. Metal wires and copper wires, etc., may cause fire or other faults.
- Do not use water heater or like next to the indoor unit and the wired controller. Water/power leakage or short circuit may happen if the steam generating apparatus is working next to machine.
- · Defrosting during heating To improve the heating effect, the outdoor unit will perform defrosting automatically when frost appears on the outdoor unit during heating (approximately 2-10 min). During defrosting, the fan of the indoor unit runs at a low speed or stops while that of the outdoor unit stops running.
- · Do not touch the switch with the wet hand to avoid power shock.

- Power should be cut off when the air conditioner is left unused for a long period. Power will be consumed if the air conditioner is not powered off. The power switch of the outdoor unit switch should be powered on 12 hours in advance before operation to protect the unit after a long period of storage.
- 3-minute protection To protect the unit, compressor can be actuated with at least 3-minute delay after stopping.
- Close the window to avoid outdoor air getting in.
 - Curtains or window shutters can be put down to avoid the sunshine.
- Stop running and switch off the manual power switch when cleaning the unit.
- During the operation of the control unit, don't switch off the manual power switch and the controller can be used. Please do not press the liquid crystal zone of controller to prevent damage.
- Cleaning the unit with water may cause electric shock.
- Do not put flammable spray close to the air conditioner.
 - Don't inject flammable spray towards the air conditioner, which may cause fire.
- Stopping fan rotation
- The unit which stops operating will actuate the fan for a 2-8 min swing every 30-60 minutes for protecting the unit while other indoor unit are in the operating
- This appliance is not intended for use by persons (including children) with reducedphysical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.









Maintenance

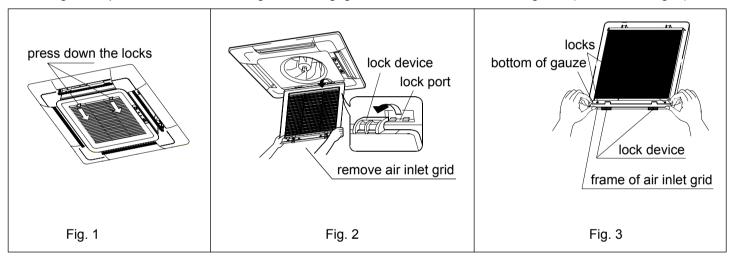
∧ Attention

- Repair can only be performed by professional personnel.
- Before touching the connection line, all power supplies should be switched off. Only after switching off the power supply can the operator clean the air conditioner as to avoid electric shock or injury.
- When cleaning the air cleaner, make sure to use a stable platform; don't flush the air conditioner with water, or the electric shock might be caused.

Daily Maintenance:

Clean the air cleaner & air inlet grid.

- Don't dismantle the air cleaner if not cleaning, or faults might be caused.
- When the air conditioner operates in the environment with too much dust, clean the air conditioner more times (generally once every two weeks).
- 1. Remove the air inlet grid as shown in the figure: press down the two locks on the grid (as shown in Fig. 1) to move it close to the nearby grid, gently lift it 45 degree (as shown in Fig. 2), and then remove the air inlet grid.
- 2. Dismantle the gauze: press the outer frame of the air inlet grid by the thumb, and draw the base angle of gauze by the forefinger and pull it out as to make the gauze disengage the locks, and dismantle the gauze (as shown in Fig. 3).



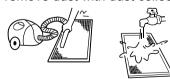
Cleaning Air Cleaner

Cleaning

Clean the air cleaner with the dust collector or water to remove dusts.

For too much dust, use the fan or directly spray the special cookware detergent on the air inlet grid, and then clean it with water after 10 minutes.

(A) remove dust with dust collector.



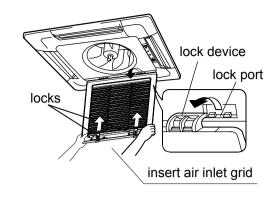
- (B) for too much dust, use soft-hair brush and mild detergent to clean.
- (C) throw off water and then dry it at cool places.

- Don't clean it with hot water of over 50°C to avoid fading or distortion.
- Don't dry it on the fire, or the cleaner might cause fire.

Maintenance

Installing air cleaner and air inlet grid:

- 1. Mounting the gauze: opposite to the ways of dismantling the gauze (as shown in Fig. 3 above).
- 2. Mounting the air inlet grid: as shown in the right figure, nip the locks on the grid as directed by arrows, put the side with the lock device into the lock port, and then put the side with locks into the panel frame. Release the locks to position the grid after determining that the grid is abutting upon the bottom of the panel frame.



Cleaning the air outlet port and the shell:

∧ Attention

- · Don't use gasoline, benzene, diluents, polishing powder or liquid insecticide to clean them.
- Do not clean them with hot water of above 50°C to avoid fading or distorting.
- · Wipe them with soft dry cloth.
- · Water or neutral dry cleanser is recommended if the dust cannot be removed.
- The Wind Deflector can be dismantled to clean (as below).

Cleaning Wind Deflector:

· Do not wipe the wind deflector with water forcibly to avoid the floss falling off.

Maintenance before and after Operating Season

Before Operating Season:

- 1. Please make the following checkup:
 - There is no blockage in inlet port and outlet port of outdoor and indoor units.
 - The ground line and the wiring are in the proper state. If abnormal condition occurs, consult the after-service personnel.
- 2. Clean the air cleaner and the shell.
 - After cleaning, the air cleaner must be mounted.
- 3. Switch it on to the power.
 - · After cleaning, the air cleaner must be mounted.

After Operating Season:

- 1. In sunny days, blowing operation can be performed for half a day to make the inside of machine dry.
- 2. Switch it off.
 - Electrical power should be cut down to economize electricity, or the machine will still consume power.
- 3. Clean the air cleaner and the shell.
 - Air cleaner and shell must be mounted after cleaning. For cleaning details, refer to Maintenance.

Fault Checkup

Please check the following when consigning repair service:

	Symptoms	Reasons
	Water flow sound	Water flow sound can be heard when starting operation, during operation or immediately after stopping operation. When it starts to work for 2-3 minutes, the sound may become louder, which is the flowing sound of refrigerant or the draining sound of condensed water.
ems	Cracking sound	During operation, the air conditioner may make the cracking sound, which is caused from the temperature changes or the slight dilation of heat exchanger.
are not problems	Terrible smell in outlet air	The terrible smell, caused from walls, carpet, furniture, clothing, cigarette and cosmetics, attaches on the conditioner.
are no	Flashing operating indicator	When switching it on again after power failure, turn on the manual power switch and the operating indicator flashes.
All these	Awaiting indication	It displays the awaiting indication as it fails to perform refrigerating operation while other indoor units are in heating operation. When the operator set it to the refrigerating or heating mode and the operation is opposite to the setting, it displays the awaiting indication.
	Sound in shutdown indoor unit or white steam or cold air	To prevent oil and refrigerant from blocking the shutdown indoor units, refrigerant flows in the short time and make the sounds of refrigerant flowing. Otherwise, when other indoor units performs heating operation, white steam may occur; during refrigerating operation, cold air may appear.
	Clicking sound when switching the air condition on	When the conditioner is powered on, the sound is made due to the resetting of the expansion valve.
	Start or stop working automatically	Check if it is in the state of Timer-ON and Timer-OFF.
Please make another check.	Failure to work	Check if there is a power failure. Check if the manual power switch is turned off. Check if the supply fuse and breaker are disconnected. Check if the protective unit is working. Check if refrigerating and heating functions are selected simultaneously with the awaiting indication on line control.
Please make	Bad cooling & heating effects	Check if air intake port and air outlet port of outdoor units are blocked. Check if the door and windows are open. Check if the filtering screen of air cleaner is blocked with sludge or dust. Check if the setting of wind quantity is at low wind. Check if the setting of operation is at the Fan Operation state. Check if the temperature setting is proper.

Under the following circumstances, immediately stop the operation, disconnect the manual supply switch and contact the after-service personnel.

- When buttons are inflexible actuated;
- When fuse and breaker have been burnt over and over;
- When there are foreign objects and water in the refrigerator;
- When it cannot still be operated after removing the operation of protective unit;
- When other abnormal conditions occur.

The standard attached accessories of the units of this series refer to the packing list; prepare other accessories according to the requirements of the local installation point of our company.

Indoor units should be installed in places with the environment of even circulation of cool and warm blows. The following places should be avoided.

- places with high salinity (beach), high sulfureted gas(such as the thermal spring regions where copper tubes and soft soldering are easy to be eroded), much oil(including mechanical oil) and steam; places where organic substance solvent is used; where special spray is frequently used;
- places where machines generate the high frequency electromagnetic wave (abnormal condition will appear in the control system);
- places where there is high humidity exists near the door or windows (dew is easily formed).

Warning:

protect the machine from gales or earthquake, make the installation according to the regulations. Improper installation will cause accidents due to the overturn of the air conditioner.

1. Select the following places to install indoor units.

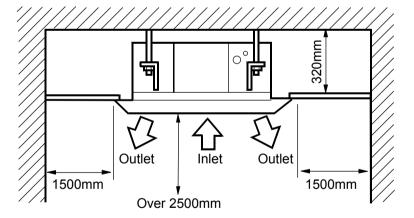
- (1) where there is enough room for the machine above the ceiling;
- (2) where the drainpipes can be well arranged;
- (3) where the distance between the air outlet port of the machine and the floor is not more than 2.7m;
- (4) where air inlet & outlet of the indoor units are not blocked;
- (5) where it is hard enough to bear the weight of the unit;
- (6) where there are no television, piano and other valuables under the indoor units as to avoid condensate dropping down, causing damage.
- (7) Where it is over 1m away from the television and radio as to avoid the disturbance from television and radio.

Installation Space

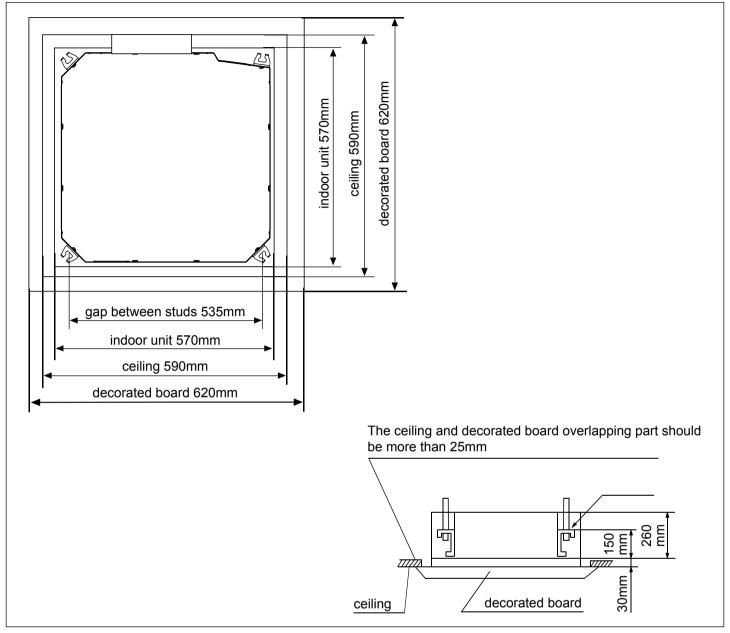
Ensure the required space for installation and maintenance (refer to the following drawings).

The installation height should be kept within 2.7m.

When the height of the ceiling exceeds 2.7m, the warm air is hard to blow to the ground.



2. Location Relationship among Ceiling Hole, Unit and Hoisting Studs



Note:

Before suspending the indoor unit, select the installation location according to the piping and wiring in the ceiling, and determine the lead direction of the piping. Prepare all pipes (refrigerator and drainage) and wiring (connection line for remote control and connection line of indoor units and outdoor units) connected to indoor units before suspending the indoor unit so as to make the connections right after the installation.

- In the situation with the ceiling, before suspending the unit, set refrigerant pipe, drainpipe, connection line in the room, lead wire of line control to the locations of piping and wiring.
- Confirm the size of the indoor unit and fix it according to the requirements in the manual.

3. Ceiling Hole & Reinforcement

- (1) Cut and withdraw the foundation of ceiling according to the size of indoor unit.
- (2) After cutting an appropriate hole, reinforce the cutting area on the foundation of indoor unit, and append the rim to the ceiling to secure its foundation. In order to prevent the ceiling from vibrating, it is vital to reinforce the ceiling foundation and ensure the original levelness of the ceiling.

4. Hoisting Stud Installation

- To support the weight of the unit, use barb bolts in the situation with the ceiling. In the situation with the new ceiling, use inlaid bolts, embedded bolts or other parts provided on site. Before proceeding the installation, adjust the gap between the bolts and the ceiling.
- Use four M10 hoisting studs (provided on site) (when the height of the hoisting stud exceeds 0.9m, M10 studs should be used.). The gaps should be kept according to the overall drawing of the air conditioner. Make the installation according to regulations for various building structures as to ensure the safety. Use the level meter to perform the parallel installation.

Ceiling Suspending

Situation with New Ceiling

- (1) Install the indoor unit temporarily: attach the hoisting foot to hoisting stud. Make sure that nuts and washers should be used at two ends of the foot to secure the foot.
- (2) For the size of the ceiling hole, please refer to the schematic drawing at the previous page.

<After finishing the installation of the ceiling>

- (3) Adjust the unit to the proper installation location.
- (4) Check if the unit is in the horizontal level:
 - The indoor unit is equipped with a built-in drainage pump and a floater switch. Check if the 4 angles of the unit are in the horizontal level with the water level or the polythene tube with water, as shown in the figure,taking only one indoor unit as an example. If the unit inclines opposite to the direction of condensate flow, the floater switch might have faults, causing water dropping.



(5) Tighten the nut on the washer.

Situation with Original Ceiling

- (1) Install the indoor unit temporarily: attach the hoisting foot to hoisting stud. Make sure that nuts and washers (provided on site) should be used at two ends of the foot to secure the foot.
- (2) Adjust the height and location of the unit.
- (3) Perform Step 4 and 5 in Situation with New Ceiling.

tightening (dual nuts) [secure hoisting foot] [secure washer foot]

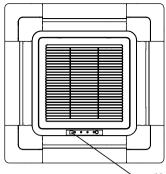
nut (provided on site)

washer

Preparation of Decorated Board

- Don't put the decorated board downward to the floor. Putting it against the wall or on the extrusive objects is not allowed.
- Don't touch the wind deflector or apply force on it, or the wind deflector will have faults.
- (1) Check if the indoor unit is in the horizontal level with the water level and the polythene tube with water and check if the size of the ceiling hole is correct. Take away the water level before mounting the decorated board.
- (2) Fasten the screw to make the height difference between two sides of the indoor unit less than 5mm.

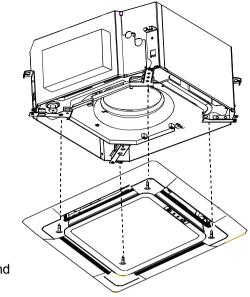
Installing the decorated board on the body of indoor unit:



receiving window for remote control

the lamp will not flash when wired controller is used

- Limits when mounting the board: mount the board as shown in the figure. Incorrect direction may cause air leakage, and meanwhile the swinging and receiving displays can't be connected.
- · Position it with screws temporarily first.
- Screw the two positioning screws and the other 2 screws and fasten them.
- Connect it to the motor line, communication line and power line, and check with the controller if the connections are correct. Mount air inlet grid and corner covers after making sure that the machine can operate normally.



Attention

Inappropriate tightening of screws might cause the faults as shown in Fig. 1.

Tighten the screws properly.

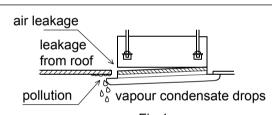
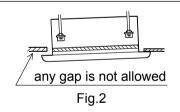
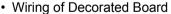


Fig.1

If there is still a gap between the decorated board and the ceiling after tightening the screws, please readjust the height of the body of the indoor unit. (Fig. 2)

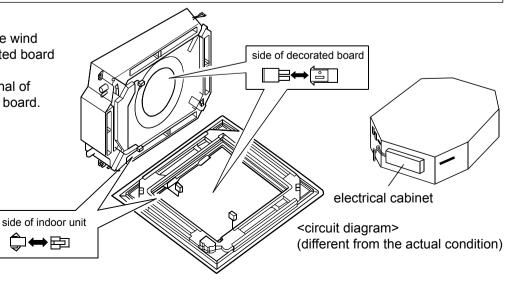
If the indoor unit keeps the horizontal level and the drainpipe can't be influenced, adjust the height of the body of the indoor unit from the holes on the corners of the decorated board.





 a. Connect it to the connector of the wind deflector motor lead on the decorated board (Fig. 3);

b. Connect it to the receiving terminal of remote controller on the decorated board.

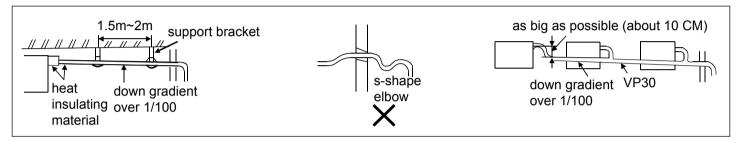


⚠ Attention

• For proper drainage, the drainpipes should be connected according to the installation manual. Heat preservation should be performed as to prevent condensing. Improper connections may cause the water leakage.

Requirements:

- The drainpipe of the indoor unit should be heat-insulated.
- Heat insulation should be treated for the connection with the indoor unit. Improper heat insulation may cause condensing.
- The drainpipe with the down gradient of over 1/100 can't be in the S shape, or abnormal sound can be caused.
- The horizon length of the drainpipe should be kept with 20m. Under the condition of long pipes, supports can be provided every 1.5~2m as to avoid unevenness.
- The central piping should be connected according the following drawing.
- Take care not to apply external force on the connection of the drainpipes.



Piping Materials & Heat Insulating Materials

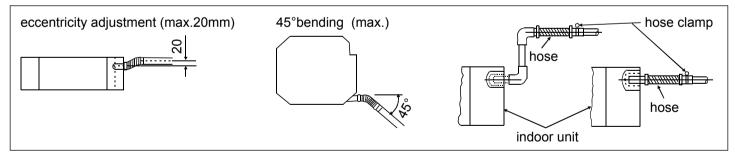
As to prevent condensation, heat insulating treatment should be performed. The heat insulating treatment for piping should be done respectively.

Dining Material	Hard PVC tube VP31.5mm
Piping Material	(inner bore)
Heat Insulating	Vesicant polythene thickness:
Material	over 7mm

Hose

The attached hoses can be used to adjust the eccentricity and angle of the hard PVC tube.

- Stretch the hose directly to make connections as to avoid distortion. The soft end of the hose should be positioned with a clamp.
- The hose should be used in the horizon direction.



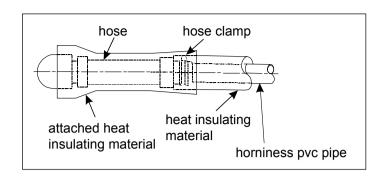
Heat Insulating Treatment:

• Wrap the connection between the clamp and the root segment of the indoor unit without any gap with heat insulating materials as shown in the drawing

Lifting Drainpipe

The drainpipe can be lifted 360mm.

When the down gradient of the drainpipe can't be ensured, after upright lifting, the drainpipe is in the down slope.



Confirming Drainage

The drainage should be confirmed during the test run to make sure that there is leakage at the connection.

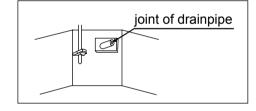
The confirmation of drainage should be also performed during the installation in the winter season.

Fill water from the outlet or the specified position and confirm the drainage.

Fill 600cc water with a hose from the outlet or the specified location on the machine.

Add the water slowly. Don't add water to the motor of the drainage pump.

- 100mm below ilfling 600mm below under the ceiling
- After mounting the electrical system, do cooling operation and meanwhile add water and check.
- If the electrical installation hasn't been completed, pull out the terminal(2P)
 of the floater switch on the electrical cabinet. After confirming the drainage,
 connect the terminal of the floater switch and run the drainage pump for 5
 minutes until it stops automatically.
- Confirm the sound of the motor:
 Confirm the sound of the motor of the drainage pump and meanwhile check the drainage.



Tubing Permissible Length & Height Difference

Please refer to the attached manual of outdoor units.

Tubing Materials & Specifications

Please refer to the attached manual of outdoor units.

Model		AB052~092MCERA(M)	AB122~182MCERA(M)		
Tubing Size (mm)	Gas pipe	Ø9.52	Ø12.7		
Tubing Size (IIIII)	Liquid pipe	Ø6.35	Ø6.35		
Tubing Material	Phosphor deoxybronze seamless pipe (TP2) for air conditioner				

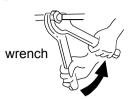
Refrigerant Filling Amount

Add the refrigerant according to the installation instruction of outdoor unit. The addition of R410A refrigerant must be performed with a measure gage to ensure the specified amount while compressor failure can be caused by filling too much or little refrigerant.

Connecting Procedures of Refrigerant Tubing

Proceed the flare tube connecting operation to connect all the refrigerant tubes.

- · Dual wrenches must be used in the connection of indoor unit tubing.
- · Mounting torque refers to the right table



Outer Diameter of Tubing	Mounting Torque	Increase mounting Torque
(mm)	(N-m)	(N-m)
Ø6.35	11.8(1.2kgf-m)	13.7(1.4kgf-m)
Ø9.52	24.5(2.5kgf-m)	29.4(3.0kgf-m)
Ø12.7	49.0(5.0kgf-m)	53.9(5.5kgf-m)

Cutting and Enlarging

Cutting or enlarging pipes should be proceeded by installation personnel according to the operating criterion if the tube is too long or flare opening is broken.

Vacuumizing

Vacuumize from the stop valve of outdoor units with vacuum pump. Refrigerant sealed in indoor machine is not allowed to use for vacuumization.

Open All Valves

Open all the valves of outdoor units. [NB: oil balancing stop valve must be shut up completely when connected one main unit.]

Checkup for Air Leakage

Check if there is any leakage at the connecting part and bonnet with hydrophone or soapsuds.

Connecting

1. Connecting circular terminals:

The connecting method of circular terminal is shown in the Fig. Take off the screw, connect it to the terminal tier after heading it through the ring at the end of the lead and then

tighten it.

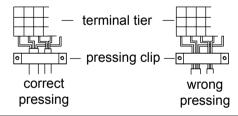
Connecting circular terminals:

2. Connecting straight terminals:

The connection methods for the circular terminals are shown as follows: loosen the screw before putting the line terminal into the terminal tier, tighten the screw and confirm it has been clamped by pulling the line gently.

3. Pressing connecting line

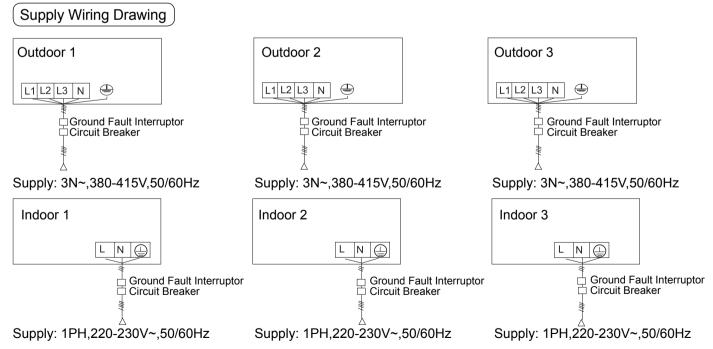
After connecting line is completed, press the connecting line with clips which should press on the protective sleeve of the connecting line.



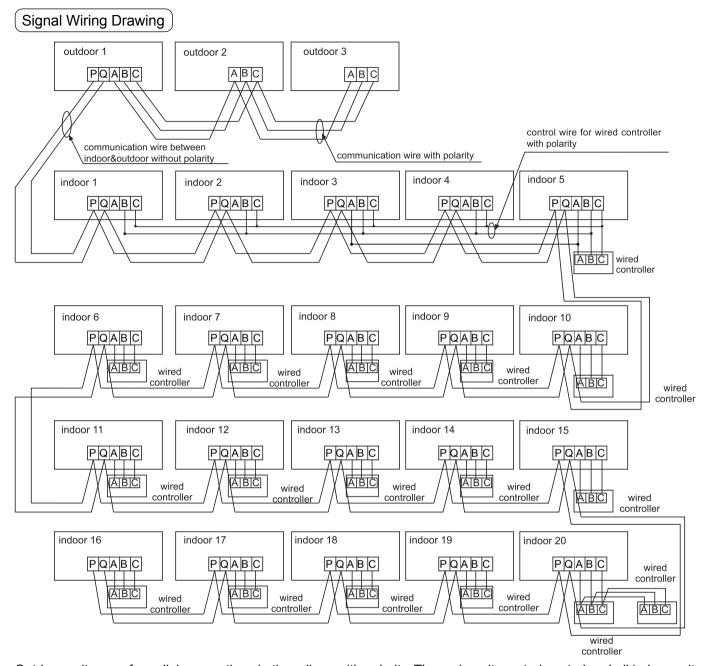
∆WARNING

- Electrical construction should be made with specific mains circuit by the qualified personnel according to the installation instruction. Electric shock and fire may be caused if the capacity of power supply is not sufficient.
- During arranging the wiring layout, specified cables should be used as the mains line, which accords with the local regulations on wiring. Connecting and fastening should be performed reliably to avoid the external force of cables from transmitting to the terminals. Improper connection or fastness may lead to burning or fire accidents.
- There must be the ground connection according to the criterion. Unreliable grounding may cause electrical shocks. Do not connect the grounding line to the gas pipe, water pipe, lightening rod and telephone line.

- Only copper wire can be used. Breaker for electric leakage should be provided, or electric shock may occur.
- The wiring of the mains line is of Y type. The power plug L should be connected to the live wire and plug N connected to null wire while should be connected to the ground wire. For the type with auxiliary electrically heating function, the live wire and the null wire should not be misconnected, or the surface of electrical heating body will be electrified. If the power line is damaged, replace it by the professional personnel of the manufacturer or service center.
- The power line of indoor units should be arranged according to the installation instruction of indoor units.
- The electrical wiring should be out of contact with the high-temperature sections of tubing as to avoid melting the insulating layer of cables, which may cause accidents.
- After connected to the terminal tier, the tubing should be curved into be a U-type elbow and fastened with the pressing clip.
- Controller wiring and refrigerant tubing can be arranged and fixed together.
- The machine can't be powered on before electrical operation. Maintenance should be done while the power is shut down.
- Seal the thread hole with heat insulating materials to avoid condensation.
- Signal line and power line are separately independent, which can't share one line. [Note: the power line, signal line are provided by users. Parameters for power lines are shown as below: 3×(1.0-1.5)mm²; parameters for signal line: 2×(0.75-1.25)mm² (shielded line)]
- 5 butt lines (1.5mm) are equipped in the machine before delivery, which are used in connection between the valve box and the electrical system of the machine. The detailed connection is displayed in the circuit diagram.



• Indoor units and outdoor units should be connected to the power source separately. Indoor units must share one single electrical source, but its capacity and specifications should be calculated. Indoor & outdoor units should be equipped with the power leakage breaker and the overflow breaker.



Outdoor units are of parallel connection via three lines with polarity. The main unit, central control and all indoor units are of parallel connection via two lines without polarity.

There are three connecting ways between line control and indoor units:

equipped with wires and connected to the line control.

- A. One line control controls multiple units, i.e. 2-16 indoor units, as shown in the above figure, (1-5 indoor units). The indoor unit 5 is the line-controlled main unit and others are the ine-controlled sub units. The wired control and the main unit (directly connected to the indoor unit of line control) are connected via three lines with polarity. Other indoor units and the main unit are connected via two lines with polarity. SW01 on the main unit of line control is set to 0 while SW01 on other sub units of line control are set to 1, 2, 3 and so on in turn. (Please refer to the code setting at page 17)
- B. One line control controls one indoor unit, as shown in the above figure(indoor unit 6-19). The indoor unit and the line control are connected via three lines with polarity.
- C. Two line controls control one indoor unit, as shown in the figure (indoor unit 20). Either of the line controls can be set to be the master line control while the other is set to be the auxiliary line control. The master line control and indoor units, and the master and auxiliary line controls are connected via three lines with polarity.
 When the indoor units are controlled by the remote control, switch over the modes by Switching Mode of Line-Controlled Main Unit/ Line-Controlled Sub Units/ Remote-Controlled Types. The signal terminals needn't to be

The wiring for the power line of indoor unit, the wiring between indoor and outdoor units as well as the wiring between indoor units:

Items	Cross	Length	Rated Current of	Rated current of residual Circuit Breaker(A)	Cross S Area of S	ectional ignal Line
Total Current of Indoor Units(A)	Section (mm²)	(m)	Overflow Breaker(A)	Ground Fault Interruptor(mA) Response time(S)	Outdoor -indoor (mm²)	Indoor -indoor (mm²)
<10	2	20	20	20 A,30 mA,0.1S or below		
≥10 and <15	3.5	25	30	30 A,30 mA,0.1S or below	2 cores×0.	75-2.0mm²
≥15 and <22	5.5	30	40	40 A,30 mA,0.1S or below	shield	led lin
≥22 and <27	10	40	50	50 A,30 mA,0.1S or below		

- The electrical power line and signal lines must be fastened tightly.
- Every indoor unit must have the ground connection.
- The power line should be enlarged if it exceeds the permissible length.
- Shielded lays of all the indoor and outdoor units should be connected together, with the shielded lay at the side of signal lines of outdoor units grounded at one point.
- It is not permissible if the whole length of signal line exceeds 1000m.

Signal Wiring of Wired controller

Length of Signal Line (m)	Wiring Dimensions
≤250	0.75mm ² × core shielding lin

- The shielding lay of the signal line must be grounded at one end.
- The total length of the signal line shall not be more than 250m.

Dipswitch Setting

Indoor Units PCB

In the following table, 1 represents ON and 0 represents OFF.

Definition principles of code switches:

SWO1 is used to set capabilities of master and slave indoor units as well as indoor unit; SW03 is used to set indoor unit address (combine original communication address and address of centralized controller).

(A) Definition and description of SW01

	[1]	[2]	[3]	[4]	Address of wire controlled indoor unit (group address)	
		0	0	0	0	0# (wire controlled master unit) (default)
		0	0	0	1	1# (wire controlled slave unit)
SW01_1	Address of other	0	0	1	0	2# (wire controlled slave unit)
SW01_2 SW01_3	Address of wire controlled indoor unit	0	0	1	1	3# (wire controlled slave unit)
SW01_3	Controlled indoor drift	0	1	0	0	4# (wire controlled slave unit)
		0	1	0	1	5# (wire controlled slave unit)
		1	1	1	1	15# (wire controlled slave unit)
		[5]	[6]	[7]	[8]	Capability of indoor unit
		0	0	0	0	(AB05)
SW01_5		0	0	0	1	(AB07)
SW01_6 SW01_7 SW01_8 Capability of indoor unit	0	0	1	0	(AB09)	
		0	0	1	1	(AB12)
		0	1	0	1	(AB16)
		0	1	1	0	(AB18)

(B) Definition and description of SW03

Address sotting		[1]		Address setting mode							
SW03_1	SW03_1 Address setting mode	0		Automatic setting (default)							
	mode	1		Code-set address							
		[2]	[3]	[4]	[5]	[6]	[7]	[8]	Address of indoor unit	Address of centralized controller	
	Code-set indoor	0	0	0	0	0	0	0	0# (Default)	0# (Default)	
		0	0	0	0	0	0	1	1#	1#	
		0	0	0	0	0	1	0	2#	2#	
SW03_2	unit address										
~ SW03_8	and centralized controller address	0	1	1	1	1	1	1	63#	63#	
34403_0	(Note *)	1	0	0	0	0	0	0	0#	64#	
(Note)	1	0	0	0	0	0	1	1#	65#		
		1	0	0	0	0	1	0	2#	66#	
		1	1	1	1	1	1	1	63#	127#	

Note *:

- Set the address by code when connecting the centralized controller or gateway or charge system.
- Address of centralized controller=communication address+0 or+64.
 SW03_ 2=OFF, address of centralized controller=communication address+0=communication address
 SW03_ 2=ON, address of centralized controller=communication address+64 (applies when centralized controller is used and there are more than 64 indoor units)
- To use with 0010451181A in use, it is required to use code for address setting. Set SW03_1=0N and SW03_2=OFF; SW03_3, SW03_4, SW03_5, SW03_6, SW03_7 and SW03_8 are address codes which are set according to actual address.
- Address setting function of wired controller for ultrathin card machine is disnabled.

Test Run & Fault Code

Before Test Run

- Before switching it on, test the supply terminal tier (L, N terminals) and grounding points with 500V megaohm meter and check if the resistance is above $1M\Omega$. It can't be operated if it is below $1M\Omega$.
- Connect it to the power supply of outdoor units to energize the heating belt of the compressor. To protect the compressor at startup, power it on 12 hours prior to the operation.

Check if the arrangements of the drainpipe and connection line are correct.

The drainpipe shall be placed at the lower part while the connection line placed at the upper part. Heat preservation measures should be taken such as winding the drainpipe esp. in the indoor units with heating insulating materials. The drain pipe should be made a slope type to avoid protruding at the upper part and concaving at the lower part on the way.

Checkup of Installation	n
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□ check if the mains voltage is matching	□ check if the installation place meets the requirement
□ check if there is air leakage at the piping joints	☐ check if there is too much noise
$_\square$ check if the connections of mains power and indoor $\&$ outdoor	□ check if the connecting line is fastened
units are correct	☐ check if the connectors for tubing are heat insulated
□ check if the serial numbers of terminals are matching	□ check if the water is drained to the outside□ check if the indoor units are positioned

Ways of Test Run

Do ask the installation personnel to make a test run. Take the testing procedures according to the manual and check if the temperature regulator works properly.

When the machine fails to start due to the room temperature, the following procedures can be taken to do the compulsive running. The function is not provided for the type with remote control.

 Set the wired controller to cooling/heating mode, press "ON/OFF" button for 5 seconds to enter into the compulsive cooling/heating mode. Repress "ON/OFF" button to quit the compulsive running and stop the operation of the air conditioner.

Fault Remedies

When any fault appears, consult the fault code of line control or the flashing times for LED5 of computer panel of indoor units/health lamp of receiving window of remote control and find out the faults as shown in the following table to remove all faults.

Indoor Unit Faults

Failure code at wired controller	PCB LED5(Indoor Units)/ Receiver Timer Lamp(Remote Controller)	Fault Descriptions
01	1	Fault of indoor unit ambient temp. transducer TA
02	2	Fault of indoor unit pipe temp. transducer TC1
03	3	Fault of indoor unit pipe temp. transducer TC2
04	4	Fault of indoor unit dual heat source temp. transducer
05	5	Fault of indoor unit EEPROM
06	6	Fault of communication between indoor & outdoor units
07	7	Fault of communication between indoor unit and wired control
08	8	Fault of indoor unit water drainage
09	9	Fault of duplicate indoor unit address
0A	10	Reserve
0C	12	Fault of zero cross sing
0E	14	Fault of DC fan
Outdoor Unit Code	20	Corresponding faults of outdoor units

Move and scrap the air conditioning

- · When moving, to disassemble and re-install the air conditioning, please contact your dealer for technical support.
- In the composition material of air conditioning, the content of lead, mercury, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers are not more than 0.1% (mass fraction) and cadmium is not more than 0.01% (mass fraction).
- Please recycle the refrigerant before scrapping, moving, setting and repairing the air conditioning; for the air conditioning scrapping, should be dealt with by the qualified enterprises.