MITSUBISHI ELECTRIC Air-Conditioners INDOOR UNIT

(E

PEH-RP200, 250MYA

FOR INSTALLER
FÜR INSTALLATEURE
POUR L'INSTALLATEUR
PARA EL INSTALADOR
PER L'INSTALLATORE
VOOR DE INSTALLATEUR

FÖR INSTALLATÖREN
TIL MONTØREN
PARA O INSTALADOR
ΓΙΑ ΤΟΝ ΤΕΧΝΙΚΟ ΕΓΚΑΤΑΣΤΑΣΗΣ
TESİSATÇININ DİKKATİNE
ДЛЯ СПЕЦИАЛИСТА ПО МОНТАЖУ

INSTALLATION MANUAL

For safe and correct use, please read this installation manual thoroughly before installing the air-conditioner unit.

INSTALLATIONSHANDBUCH

Zum sicheren und ordnungsgemäßen Gebrauch der Klimageräte das Installationshandbuch gründlich durchlesen.

MANUEL D'INSTALLATION

Veuillez lire le manuel d'installation en entier avant d'installer ce climatiseur pour éviter tout accident et vous assurer d'une utilisation correcte.

MANUAL DE INSTALACIÓN

Para un uso seguro y correcto, lea detalladamente este manual de instalación antes de montar la unidad de aire acondicionado.

MANUALE DI INSTALLAZIONE

Per un uso sicuro e corretto, leggere attentamente questo manuale di installazione prima di installare il condizionatore d'aria.

INSTALLATIEHANDLEIDING

Voor een veilig en juist gebruik moet u deze installatiehandleiding grondig doorlezen voordat u de airconditioner installeert.

INSTALLATIONSMANUAL

Läs denna installationsmanual noga för säkert och korrekt bruk innan luftkonditioneringen installeras.

INSTALLATIONSMANUAL

Læs venligst denne installationsmanual grundigt, før De installerer airconditionanlægget, af hensyn til sikker og korrekt anvendelse.

MANUAL DE INSTALAÇÃO

Para segurança e utilização correctas, leia atentamente este manual de instalação antes de instalar a unidade de ar condicionado.

ΕΓΧΕΙΡΙΔΙΟ ΟΔΗΓΙΩΝ ΕΓΚΑΤΑΣΤΑΣΗΣ

Για ασφάλεια και σωστή χρήση, παρακαλείστε διαβάσετε προσεχτικά αυτό το εγχειρίδιο εγκατάστασης πριν αρχίσετε την εγκατάσταση της μονάδας κλ<u>ι</u>ματισμού.

MONTAJ ELKİTABI

Emniyetli ve doğru biçimde nasıl kullanılacağını öğrenmek için lütfen klima cihazını monte etmeden önce bu elkitabını dikkatle okuyunuz.

РУКОВОДСТВО ПО УСТАНОВКЕ

Для осторожного и правильного использования прибора необходимо тщательно ознакомиться с данным руководством по установке до выполнения установки кондиционера.



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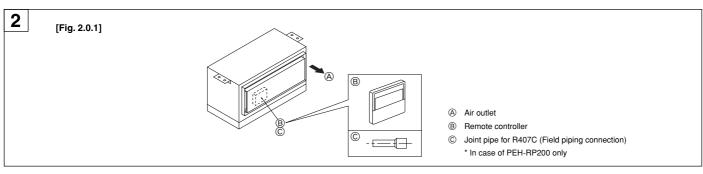
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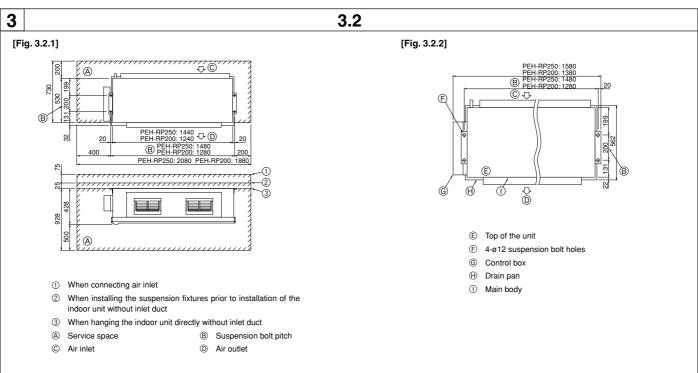
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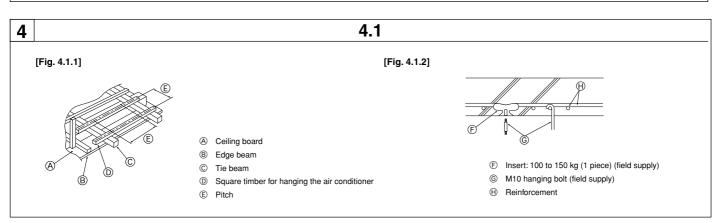
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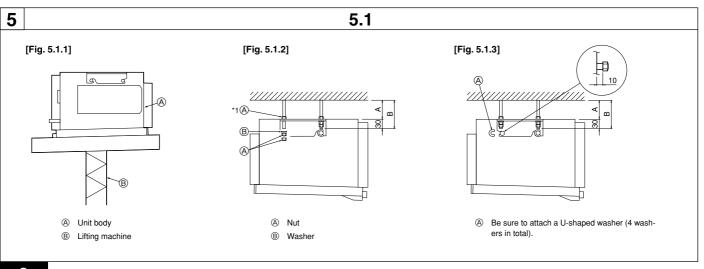
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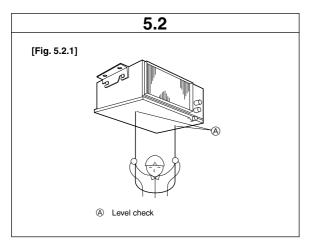
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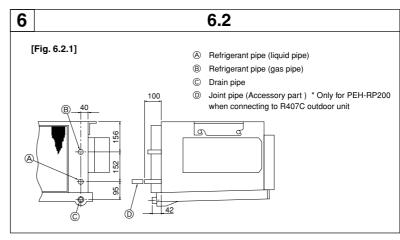


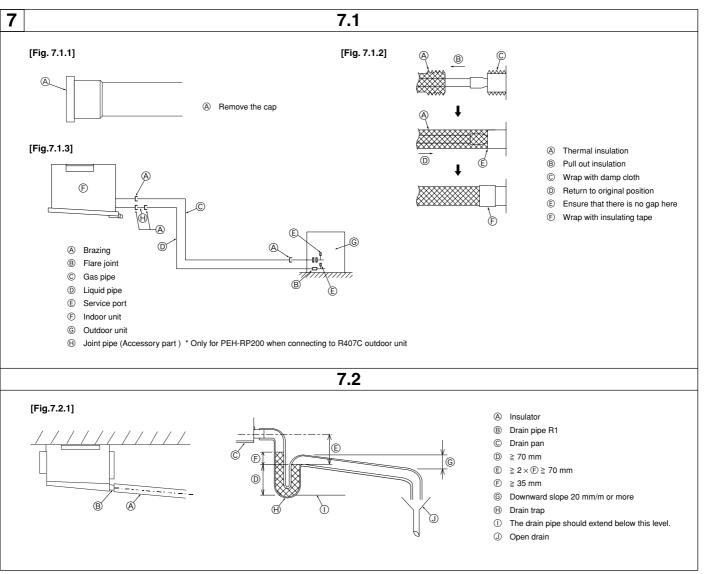


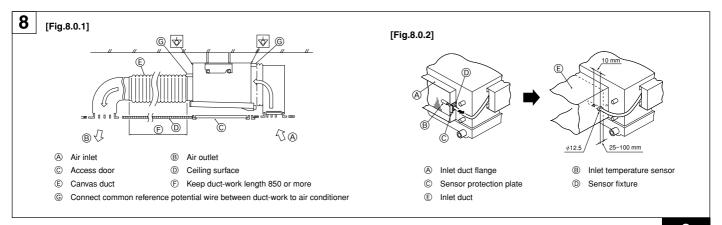


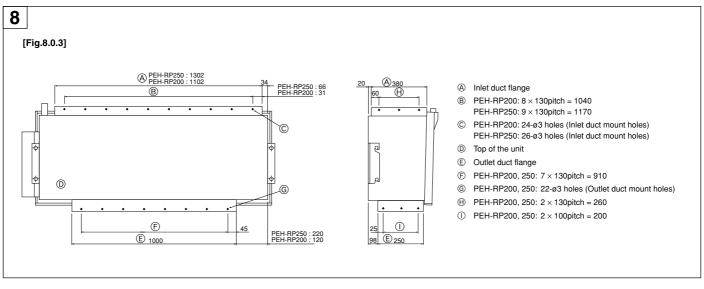


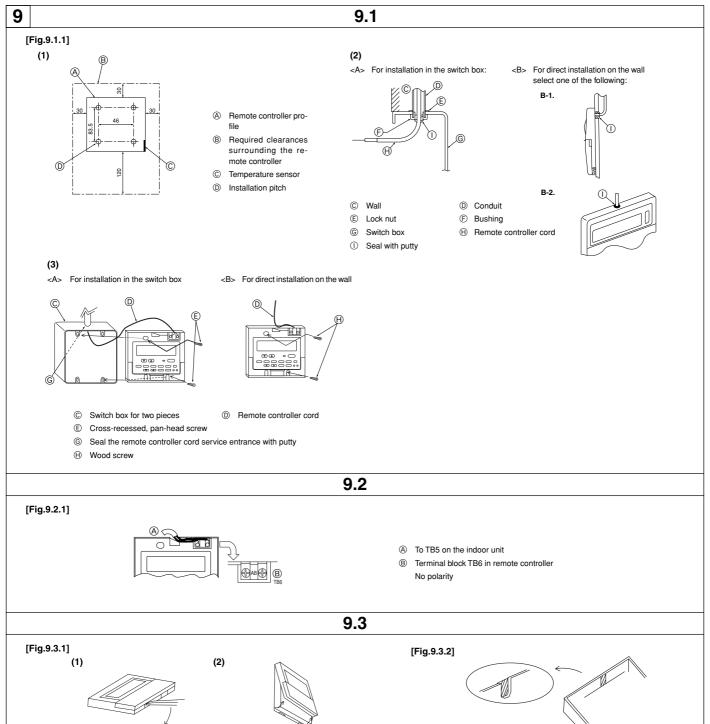


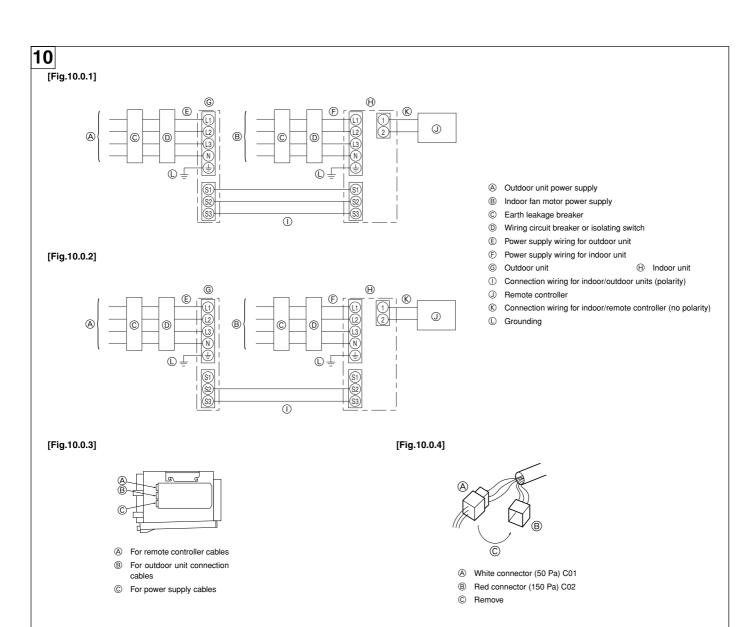


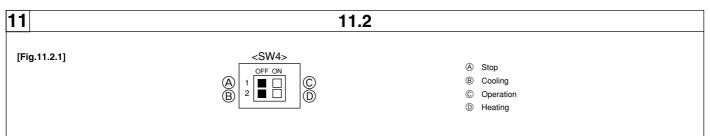


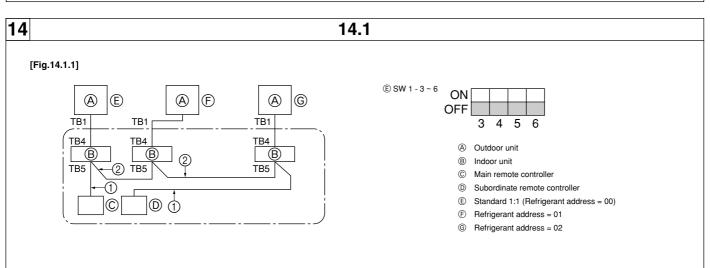












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1. Safety precautions

1.1. Before installation and electric work

- Before installing the unit, make sure you read all the "Safety precautions".
- The "Safety precautions" provide very important points regarding safety. Make sure you follow them.

Symbols used in the text

⚠ Warning:

Describes precautions that should be observed to prevent danger of injury or death to the user.

∴Caution:

Describes precautions that should be observed to prevent damage to the

Symbols put on the unit

: Indicates an action that must be avoided.

Indicates that important instructions must be followed.

Indicates a part which must be grounded.

Indicates that caution should be taken with rotating parts. (This symbol is displayed on the main unit label.) <Color: yellow>

: Beware of electric shock. (This symbol is displayed on the main unit label.) <Color: yellow>

⚠ Warning:

Carefully read the labels affixed to the main unit.

<u>✓!</u> Warning:

- Ask the dealer or an authorized technician to install the air conditioner.
 - Improper installation by the user may result in water leakage, electric shock, or fire
- For refrigerant R410A installation work, follow the instructions in the installation Manual and use tools and pipe components specifically made for use with R410A refrigerant. The R410A refrigerant in the HFC system is pressurized 1.6 times the pressure of usual refrigerants. If pipe components not designed for R410A refrigerant are used and the unit is not installed correctly, the pipe may burst and cause damage or injuries. In addition, water leakage, electric shock, or fire may result.
- Install the unit at a place that can withstand its weight.
 - Inadequate strength may cause the unit to fall down, resulting in injuries.
- Use the specified cables for wiring. Make the connections securely so that the outside force of the cable is not applied to the terminals.
 - Inadequate connection and fastening may generate heat and cause a fire.
- Prepare for strong winds and earthquakes and install the unit at the specified place.
 - Improper installation may cause the unit to topple and result in injury.
- Always use an filter and other accessories specified by Mitsubishi Electric.

- Ask an authorized technician to install the accessories. Improper installation by the user may result in water leakage, electric shock, or fire.
- Never repair the unit. If the air conditioner must be repaired, consult the dealer.
 - If the unit is repaired improperly, water leakage, electric shock, or fire may result.
- Do not touch the heat exchanger fins.
 - Improper handling may result in injury.
- When handling this product, always wear protective equipment.
 EG: Gloves, full arm protection namely boiler suit, and safety glasses.
 - Improper handling may result in injury.
- If refrigerant gas leaks during installation work, ventilate the room.
 - If the refrigerant gas comes into contact with a flame, poisonous gases will be released.
- · Install the air conditioner according to this Installation Manual.
 - If the unit is installed improperly, water leakage, electric shock, or fire may result.
- Have all electric work done by a licensed electrician according to "Electric Facility Engineering Standard" and "Interior Wire Regulations" and the instructions given in this manual and always use a special circuit.
 - If the power source capacity is inadequate or electric work is performed improperly, electric shock and fire may result.
- · Securely install the outdoor unit terminal cover (panel).
 - If the terminal cover (panel) is not installed properly, dust or water may enter the outdoor unit and fire or electric shock may result.
- When installing and moving the air conditioner to another site, do not charge it with a refrigerant different from the refrigerant (R410A or R407C) specified on the unit.
 - If a different refrigerant or air is mixed with the original refrigerant, the refrigerant cycle may malfunction and the unit may be damaged.
- If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant leaks.
 - Consult the dealer regarding the appropriate measures to prevent the safety limit from being exceeded. If the refrigerant leak and cause the safety limit to be exceeded, hazards due to lack of oxygen in the room could result.
- When moving and reinstalling the air conditioner, consult the dealer or an authorized technician.
 - If the air conditioner is installed improperly, water leakage, electric shock, or fire may result.
- After completing installation work, make sure that refrigerant gas is not leaking.
 - If the refrigerant gas leaks and is exposed to a fan heater, stove, oven, or other heat source, it may generate noxious gases.
- Do not reconstruct or change the settings of the protection devices.
 - If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Mitsubishi Electric are used, fire or explosion may result.
- To dispose of this product, consult your dealer.
- The installer and system specialist shall secure safety against leakage according to local regulation or standards.
 - Following standards may be applicable if local regulation are not available.
- Pay a special attention to the place, such as a basement, etc. where refrigeration gas can stay, since refrigeration is heavier than the air.

1.2. Precautions for devices that use R410A or R407C refrigerant

⚠ Caution:

- Use refrigerant piping made of phosphorus deoxidized copper. In addition, be sure that the inner and outer surfaces of the pipes are clean and free of hazardous sulphur, oxides, dust/dirt, shaving particles, oils, moisture, or any other contaminant. Use pipes with the specified thickness. (Refer to the 7.1.) Note the following if reusing existing pipes that carried R22 refrigerant.
 - Replace the existing flare nuts and flare the flared sections again.
 - Do not use thin pipes. (Refer to the 7.1.)
 - Contaminants on the inside of the refrigerant piping may cause the refrigerant residual oil to deteriorate.
- Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Store elbows and other joints in a plastic bag.)
 - If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.
- Use ester oil, ether oil or alkylbenzene (small amount) as the refrigerator oil to coat flares and flange connections.
 - The refrigerator oil will degrade if it is mixed with a large amount of mineral oil
- Use liquid refrigerant to fill the system.
 - If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.
- Do not use a refrigerant other than R410A or R407C.
 - If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the refrigerator oil to deteriorate.
- · Use a vacuum pump with a reverse flow check valve.
 - The vacuum pump oil may flow back into the refrigerant cycle and cause the refrigerator oil to deteriorate.
- Use the following tools specifically designed for use with R410A or R407C refrigerant.

The following tools are necessary to use R410A or R407C refrigerant. Contact your nearest dealer for any questions.

Tools (for R410A or R407C)		
Gauge manifold	Flare tool	
Charge hose	Size adjustment gauge	
Gas leak detector Vacuum pump adapte		
Torque wrench	Electronic refrigerant charging scale	

- Do not use a charging cylinder.
 - Using a charging cylinder may cause the refrigerant to deteriorate.
- Be especially careful when managing the tools.
 - If dust, dirt, or water gets in the refrigerant cycle, the refrigerant may deteriorate

1.3. Before getting installed

∴ Caution:

- Do not install the unit where combustible gas may leak.
 - If the gas leaks and accumulates around the unit, an explosion may result.
- Do not use the air conditioner where food, pets, plants, precision instruments, or artwork are kept.
 - The quality of the food, etc. may deteriorate.
- Do not use the air conditioner in special environments.
 - Oil, steam, sulfuric smoke, etc. can significantly reduce the performance of the air conditioner or damage its parts.
- When installing the unit in a hospital, communication station, or similar place, provide sufficient protection against noise.
 - The inverter equipment, private power generator, high-frequency medical equipment, or radio communication equipment may cause the air conditioner to operate erroneously, or fail to operate. On the other hand, the air conditioner may affect such equipment by creating noise that disturbs medical treatment or image broadcasting.

• Do not install the unit on a structure that may cause leakage.

 When the room humidity exceeds 80 % or when the drain pipe is clogged, condensation may drip from the indoor unit. Perform collective drainage work together with the outdoor unit, as required.

1.4. Before getting installed (moved) - electrical work

⚠ Caution:

- · Ground the unit.
 - Do not connect the ground wire to gas or water pipes, lightning rods, or telephone ground lines. Improper grounding may result in electric shock.
- · Install the power cable so that tension is not applied to the cable.
 - Tension may cause the cable to break and generate heat and cause a fire.
- Install an earth leakage circuit breaker, as required.
- If an earth leakage circuit breaker is not installed, electric shock may result.
- Use power line cables of sufficient current carrying capacity and rating.
 - Cables that are too small may leak, generate heat, and cause a fire. Use only a circuit breaker and fuse of the specified capacity.
 - A fuse or circuit breaker of a larger capacity or a steel or copper wire may result in a general unit failure or fire.
- · Do not wash the air conditioner units.
 - Washing them may cause an electric shock.
- · Be careful that the installation base is not damaged by long use.
 - If the damage is left uncorrected, the unit may fall and cause personal injury or property damage.
- Install the drain piping according to this Installation Manual to ensure proper drainage. Wrap thermal insulation around the pipes to prevent condensation.
 - Improper drain piping may cause water leakage and damage to furniture and other possessions.
- Be very careful about product transportation.
 - Only one person should not carry the product if it weighs more than 20 kg.
 - Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.
 - Do not touch the heat exchanger fins. Doing so may cut your fingers.
 - When transporting the outdoor unit, suspend it at the specified positions on the unit base. Also support the outdoor unit at four points so that it cannot slip sideways.
- · Safely dispose of the packing materials.
 - Packing materials, such as nails and other metal or wooden parts, may cause stabs or other injuries.
 - Tear apart and throw away plastic packaging bags so that children will not play with them. If children play with a plastic bag which was not torn apart, they face the risk of suffocation.

1.5. Before starting the test run

⚠ Caution:

- · Turn on the power at least 12 hours before starting operation.
 - Starting operation immediately after turning on the main power switch can result in severe damage to internal parts. Keep the power switch turned on during the operational season.
- · Do not touch the switches with wet fingers.
 - Touching a switch with wet fingers can cause electric shock.
- Do not touch the refrigerant pipes during and immediately after operation.
 - During and immediately after operation, the refrigerant pipes are may be hot and may be cold, depending on the condition of the refrigerant flowing through the refrigerant piping, compressor, and other refrigerant cycle parts. Your hands may suffer burns or frostbite if you touch the refrigerant pipes.
- · Do not operate the air conditioner with the panels and guards removed.
 - Rotating, hot, or high-voltage parts can cause injuries.
- Do not turn off the power immediately after stopping operation.
 - Always wait at least five minutes before turning off the power. Otherwise, water leakage and trouble may occur.

2. Indoor unit accessories

The unit is provided with the following accessories:

[Fig. 2.0.1] (P.2)

Air outlet

<Accessory part position>

B Remote controller

© Joint pipe for R407C (Field piping connection)

* In case of PEH-RP200 only

3. Selecting an installation site

- Select a site with sturdy fixed surface sufficiently durable against the weight of
- Before installing unit, the routing to carry in unit to the installation site should be determined
- Select a site where the unit is not affected by entering air.
- Select a site where the flow of supply and return air is not blocked
- Select a site where refrigerant piping can easily be led to the outside.
- Select a site which allows the supply air to be distributed fully in room.
- Do not install unit at a site with oil splashing or steam in much quantity.
- Do not install unit at a site where combustible gas may generate, flow in, stagnate or leak
- Do not install unit at a site where equipment generating high frequency waves (a high frequency wave welder for example) is provided.
- Do not install unit at a site where fire detecter is located at the supply air side. (Fire detector may operate erroneously due to the heated air supplied during heating operation.)
- When special chemical product may scatter around such as site chemical plants and hospitals, full investigation is required before installing unit. (The plastic components may be damaged depending on the chemical product applied.)

3.1. Install the indoor unit on a ceiling strong enough to sustain its weight

The unit must be securely installed on a structure that can sustain its weight. If the unit is mounted on an unstable structure, it may fall down causing injuries

Securing installation and service space

- Select the optimum direction of supply airflow according to the configuration of the room and the installation position.
- As the piping and wiring are connected at the bottom and side surfaces, and the maintenance is made at the same surfaces, allow a proper space properly. For the efficient suspension work and safety, provide a space as much as possible

Service space

[Fig. 3.2.1] (P.2)

- ① When connecting air inlet
- ② When installing the suspension fixtures prior to installation of the indoor unit without inlet duct
- 3 When hanging the indoor unit directly without inlet duct
- A Service space
- ® Suspension bolt pitch
- © Air inlet

Air outlet

Suspension bolt pitch

[Fig. 3.2.2] (P.2)

- E Top of the unit
- F 4-ø12 suspension bolt holes
- © Control box (H) Drain pan Main body

3.3. Combining indoor units with outdoor units

For combining indoor units with outdoor units, refer to the outdoor unit installation manual

4. Fixing hanging bolts

4.1. Fixing hanging bolts

(Use M10 hanging bolts. The bolts should be supplied in the field.) (Give site of suspension strong structure.)

Hanging structure

- Ceiling: The ceiling structure varies from building to one another. For detailed information, consult your construction company
- Reinforcing the ceiling with additional members (edge beam, etc) must be required to keep the ceiling at level and to prevent the ceiling from vibrations.
- ② Cut and remove the ceiling members
- Reinforce the ceiling members, and add other members for fixing the ceiling

For wooden construction

Use the tie beam (for one story building) or second-floor beam (for two story building) as strength members.

To hang the air-conditioner, use a hard square timber of more than 6 cm if the distance between beams is less than 90 cm and a hard square timber of more than 9 cm if the distance between beams is less than 180 cm.

[Fig. 4.1.1] (P.2)

- A Ceiling board
- Edge beam
- © Tie beam (E) Pitch
- D Square timber for hanging the air conditioner

For reinforced concrete construction

As shown in the figure below, fix the hanging bolts, or use square timbers to fix the hanging bolts.

[Fig. 4.1.2] (P.2)

- (F) Insert: 100 to 150 kg (1 piece) (field supply)
- © M10 hanging bolt (field supply)
- (H) Reinforcement

Product Weight (kg)

PEH-RP200MYA	9		
PEH-RP250MYA	80 kg		

5. Installing the unit

5.1. Hanging the unit body

- Bring the indoor unit to an installation site as it is packed.
- To hang the indoor unit, use a lifting machine to lift and pass through the hanging bolts.
- Install the indoor unit before ceiling work.

[Fig. 5.1.11 (P.2)

A Unit body

B Lifting machine

- * Two installation methods are available
- <When hanging the indoor unit directly>
- Attach a washer and nut(s) to each suspension bolt. (The washers and nuts are to be supplied locally.)
- 2. Fit the indoor unit to each suspension bolt.
- 3. Make sure that the unit is positioned level, then tighten each nut.

[Fig. 5.1.2] (P.2)

A Nut

Washer

	Α	В	
When using inlet duct	100 or more	130 or more	
When not using inlet duct	0 or more	30 or more	

Nut (*1) is not required if distance A is 0.

<When installing the suspension fixture prior to installation of the indoor unit>

- 1. Loosen each suspension fixture bolt slightly, and remove the fixture and Ushaped washers.
- Adjust each suspension fixture bolt.
- 3. Attach a washer, nut and suspension fixture to each suspension bolt. (The washers and nuts are to be supplied locally.)
- 4. Hook the indoor unit to the suspension fixtures
- 5. Make sure that the unit is positioned level, then tighten each nut.

[Fig. 5.1.3] (P.2)

(4 washers in total).

	А	В	
When using inlet duct	100 or more	130 or more	
When not using inlet duct	25 or more	55 or more	

5.2. Confirming the unit's position and fixing hanging bolts

[Fig. 5.2.1] (P.3)

A Level check

Use the gage supplied with the panel to confirm that the unit body and hanging bolts are positioned in place. If they are not positioned in place, it may result in dew drops due to wind leak. Be sure to check the positional relationship.

- ▶ Use a level to check that the surface indicated by (a) is at level. Ensure that the hanging bolt nuts are tightened to fix the hanging bolts.
- To ensure that drain is discharged, be sure to hang the unit at level using a level.

⚠ Caution:

Be sure to install the unit body at level.

6. Refrigerant pipe and drain pipe specifications

To avoid dew drops, provide sufficient antisweating and insulating work to the refrigerant and drain pines

When using commercially available refrigerant pipes, be sure to wind commercially available insulating material (with a heat-resisting temperature of more than 100 °C and thickness given below) onto both liquid and gas pipes.

Be also sure to wind commercially available insulating material (with a form polyethylene's specific gravity of 0.03 and thickness given below) onto all pipes which pass through rooms.

① Select the thickness of insulating material by pipe size.

Pipe size	Insulating material's thickness			
6.4 mm to 25.4 mm	More than 10 mm			
28.6 mm to 38.1 mm	More than 15 mm			

- ② If the unit is used on the highest story of a building and under conditions of high temperature and humidity, it is necessary to use pipe size and insulating material's thickness more than those given in the table above.
- 3 If there are customer's specifications, simply follow them.

6.1. Refrigerant pipe and drain pipe specifications

Item	Model	PEH-RP200MYA	PEH-RP250MYA
Refrigerant pipe	Liquid pipe	ø12.7*	ø12.7
(R407C)	Gas pipe	ø25.4	ø28.58
Refrigerant pipe	Liquid pipe	ø9.52	ø12.7
(R410A)	Gas pipe	ø25.4	ø28.58
Drain pipe		R1 (Male	e screw)

^{*} Joint pipe (Accessory part)

6.2. Refrigerant pipe, drain pipe and filling port

[Fig. 6.2.1] (P.3)

- A Refrigerant pipe (liquid pipe)
 - . . . ,
- ® Refrigerant pipe (gas pipe)
- © Drain pipe
- ⑤ Joint pipe (Accessory part) * Only for PEH-RP200 when connecting to R407C outdoor unit

7. Connecting refrigerant pipes and drain pipes

7.1. Refrigerant piping work

This piping work must be done in accordance with the installation manuals for outdoor unit.

- For constraints on pipe length and allowable difference of elevation, refer to the outdoor unit manual.
- The method of pipe connection is brazing connection.

Cautions on refrigerant piping

- Be sure to use non-oxidative brazing for brazing to ensure that no foreign matter or moisture enter into the pipe.
- Provide a metal brace to support the refrigerant pipe so that no load is imparted to the indoor unit end pipe. This metal brace should be provided 50 cm away from the indoor unit's brazing connection.

⚠ Warning:

Do not mix anything other than the specified refrigerant (R410A or R407C) into the refrigerating cycle. Mixing air may cause the refrigerating cycle to get abnormally high temperature, resulting in a burst.

⚠ Caution:

- Install the refrigerant piping for the indoor unit in accordance with the following.
- 1. Remove the cap.

[Fig. 7.1.1] (P.3)

A Remove the cap

Pull out the thermal insulation on the site refrigerant piping, braze the unit piping, and replace the insulation in its original position. Wrap the piping with insulating tape.

[Fig. 7.1.2] (P.3)

Thermal insulation

Pull out insulation

© Wrap with damp cloth

Return to original position

E Ensure that there is no gap here

Wrap with insulating tape

Note:

- Pay strict attention when wrapping the copper piping since wrapping the piping may cause condensation instead of preventing it.
- * Before brazing the refrigerant piping, always wrap the piping on the main body, and the thermal insulation piping, with damp cloths to prevent heat shrinkage and burning the thermal insulation tubing. Take care to ensure that the flame does not come into contact with the main body itself.

↑ Caution:

Refer to the 1.2. for precautions not included below on using air conditioners with R410A or R407C refrigerant.

Use C1220 copper phosphorus, for copper and copper alloy seamless pipes, to connect the refrigerant pipes. Use refrigerant pipes with the thicknesses specified in the table to the below. Make sure the insides of the pipes are clean and do not contain any harmful contaminants such as sulfuric compounds, oxidants, debris, of dust.

Pipe size (mm)	ø9.52	ø12.7	ø25.4	ø28.58
Thickness (mm)	0.8	0.8	1.0	1.0

- Do not use pipes thinner than those specified above.
- Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing.
 - If dust, dirt, or water gets into the refrigerant cycle, the oil will deteriorate and the compressor may fail.
- Use ester oil, ether oil or alkylbenzene (small amount) as the refrigerator oil to coat flares and flange connections.
 - The refrigerant used in the unit is highly hygroscopic and mixes with water and will degrade the refrigerator oil.
- Do not use a leak detection additive.

Additional refrigerant charge

- Take care not to allow dirt or cutting chips to enter the refrigerant pipes.
- The refrigerant pipes must be kept warm, so take particular care to insulate between refrigerant pipes and the gas pipe located inside the indoor unit, since the gas pipe causes condensation during cooling operation.
- When connecting the refrigerant pipes, make sure that the stop valve of the outdoor unit is fully closed (as it was when shipped from the factory). After connecting all the refrigerant pipes between the indoor and outdoor units, purge air from the stop valve service port of the outdoor unit and service port of each connecting pipe. Check that there is no air leakage from any pipe connection, then fully open the stop valve of the outdoor unit. This will connect the refrigerant circuit between the indoor and outdoor units.
- · The refrigerant pipes must be as short as possible.
- Flare and flange connections must be used for connection of the refrigerant pipes.
- · The indoor and outdoor units must be connected with the refrigerant pipes

[Fig. 7.1.3] (P.3)

- A Brazing
- B Flare joint
 Service port
- © Gas pipe

 © Indoor unit

- D Liquid pipeG Outdoor unit
- (H) Joint pipe (Accessory part)
 - * Only for PEH-RP200 when connecting to R407C outdoor unit

⚠ Warning:

When installing or moving the air conditioner, use only the specified refrigerant (R410A or R407C) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. Air enclosed in the lines can cause pressure peaks resulting in a rupture and other hazards.

Indoor unit		PEH-RP200 PEH-RP25		
Refrigerant		R407C		
Joint outdoor unit		PUH-P200	PUH-P250	
Refrigerant Liquid side Pipe size (mm) Gas side		ø12.7*	ø12.7	
		ø25.4	ø28.58	

Indoor unit		PEH-RP200	PEH-RP250	
Refrigerant		R410A		
Joint outdoor unit		PUHZ-RP200	PUHZ-RP250	
Refrigerant Liquid side Pipe size (mm) Gas side		ø9.52	ø12.7	
		ø25.4	ø28.58	

^{*} When connecting to R407C outdoor unit, use the joint pipe which is attached to the indoor unit.

 Refer to the installation manual for details of the additional amount of refrigerant for the outdoor unit.

7.2. Drain piping work

[Fig. 7.2.1] (P.3)

- ⑥
 Insulator
 ⑥
 Drain pipe R1

 ⑥
 Drain pan
 ⑥
 ≥ 70 mm

 ⑥
 ≥ 2 x ⑥ ≥ 70 mm
 ⑥
 ≥ 35 mm

 ⑥
 Downward slope 20 mm/m or more
 ④
 Drain trap

 ①
 The drain pipe should extend below this level.
- Open drain
- Ensure that the drain piping is downward (pitch of more than 20 mm/m) to the outdoor (discharge) side.
- Ensure that any crosswise drain piping is less than 20 m (excluding the difference of elevation). If the drain piping is long, provide metal braces to prevent it from waving. Never provide any air vent pipe. Otherwise drain may be ejected.
- Use a hard vinyl chloride pipe VP-25 (with an external diameter of 32 mm) for drain piping.
- 4. Ensure that collected pipes are 10 cm lower than the unit body's drain port.
- 5. Put the end of the drain piping in a position where no odor is generated.
- Do not put the end of the drain piping in any drain where ionic gases are generated.

8. Duct work

- In connecting duct, insert canvas duct between unit and duct.
- · Use incombustible material for duct parts.
- Provide full insulation to inlet duct flange, outlet duct flange and outlet duct to prevent condensation.
- Be sure to apply the air filter near the air inlet grille.
- Before connecting an inlet duct, remove the air filter (supplied with the unit), then install that filter in the inlet grille.

[Fig. 8.0.1] (P.3)

- Air inletAir outletAccess doorCeiling surface
- © Canvas duct © Keep duct-work length 850 or more
- © Connect common reference potential wire between duct-work to air conditioner

⚠ Caution:

- Outlet duct is 850 mm or more necessary to construct.
- To connect the air conditioner main body and the duct for potential equalization.
- Inlet temperature sensor when an inlet duct is installed.

An inlet temperature sensor is installed on the inlet duct flange. Before connecting an inlet duct, this sensor must be removed and installed in the specified position.

[Fig. 8.0.2] (P.3)

- Inlet duct flange
- Inlet temperature sensor

⑤ Sensor fixture

- © Sensor protection plate

 © Inlet duct

- Pull out the sensor, and remove the sensor fixture and protection plate. (The protection plate must be discarded.)
- ② Connect the inlet duct.
- ③ Drill a sensor hole (ø12.5 dia.) on the side on the duct.
- 4 Assemble the sensor and fixture.
- When pulling out the sensor, do not pull it by the lead wire. Doing so may result in wire breakage.
- Before connecting the inlet duct, make sure that the sensor, its fixture and protection plate are removed.
- The sensor removed in step ① must be re-installed in the position specified in the drawing. Installation of the sensor in an incorrect position may result in malfunction.
- · Mount holes for outlet duct flange and inlet duct.

[Fig. 8.0.3] (P.4)

- A Inlet duct flange
- B PEH-RP200: 8 x 130 pitch = 1040 PEH-RP250: 9 x 130 pitch = 1170
- © PEH-RP200: 24-ø3 holes (Inlet duct mount holes) PEH-RP250: 26-ø3 holes (Inlet duct mount holes)
- Top of the unit
- © Outlet duct flange
- \bigcirc PEH-RP200, 250: 7 × 130 pitch = 910
- © PEH-RP200, 250: 22-ø3 holes (Outlet duct mount holes)
- ⊕ PEH-RP200, 250: 2 × 130 pitch = 260
- ① PEH-RP200, 250: 2 × 100 pitch = 200

9. Remote controller

9.1. Installing procedures

(1) Select an installing position for the remote controller (switch box). Be sure to observe the following precautions.

[Fig. 9.1.1] (P.4)

- Remote controller profile
- B Required clearances surrounding the remote controller
- © Temperature sensor
- Installation pitch
- ① The temperature sensors are located on both remote controller and indoor unit. To use the temperature sensor on the remote controller, mainly use the remote controller for temperature setting or room temperature detection. Install the remote controller in such an area that can detect average room temperatures, free of direct sunlight, airflow from the air conditioner, and other such heating source.
- ② In either case when the remote controller is installed in the switch box or on the wall, provide the clearances indicated in the diagram.

Note

Check that there is no electric wire left close to the remote controller sensor. If any electric wire is near the sensor, the remote controller may fail to detect a correct room temperature.

③ Procure the following parts locally: Switch box for two pieces Thin copper conduit tube Lock nuts and bushings (2) Seal the service entrance for the remote controller cord with putty to prevent possible invasion of dew drops, water, cockroaches or worms.

<A> For installation in the switch box:

 When the remote controller is installed in the switch box, seal the junction between the switch box and the conduit tube with putty.

 For direct installation on the wall select one of the following:

B-1. To lead the remote controller cord from the back of the controller:

 Prepare a hole through the wall to pass the remote controller cord (in order to run the remote controller cord from the back), then seal the hole with putty.

B-2. To run the remote controller cord through the upper portion:

Run the remote controller cord through the cut-out upper case, then seal the cut-out notch with putty similarly as above.

[Fig. 9.1.1] (P.4)

- © Wall D Conduit E Lock nut
- (F) Bushing (G) Switch box

(H) Remote controller cord

- Seal with putty
- (3) Install the lower case in the switch box or on the wall.

[Fig. 9.1.1] (P.4)

<A> For installation in the switch box

- © Switch box for two pieces
- Remote controller cord
- © Cross-recessed, pan-head screw
- © Seal the remote controller cord service entrance with putty

 For direct installation on the wall

(H) Wood screw

⚠ Caution:

Do not over-tighten the screws to possible deformed or broken lower case.

- Select a flat place for installation.
- Be sure to use two or more locations for securing of the remote controller in the switch box or on the wall.

9.2. Connecting procedures

The remote controller cord can be extended up to a maximum of 200 m. Use electric wires or (two-core) cables of 0.3 mm² to 1.25 mm² for making connection of remote controller. Do not use multi-conductor cables to prevent possible malfunction of the unit.

[Fig. 9.2.1] (P.4)

- Connect the remote controller cord to the terminal block at the lower case.
 - A To TB5 on the indoor unit
 - Terminal block TB6 in remote controller
 No polarity

⚠ Caution:

- Do not use crimp-style terminals for connection to the remote controller terminal block to eliminate contact with the boards and resultant trouble.
- Prevent remote cord chips from getting into the remote controller. Electric shock or malfunction may result.

9.3. Fitting the upper case

[Fig. 9.3.1] (P.4)

- (1) To remove the upper case, put a slotted screwdriver tip in the latches as shown in the diagram then move the screwdriver in the direction of arrow.
- (2) To install the upper case, put the upper latches (at two locations) first, then fit the upper case into the lower case as illustrated.

[Fig. 9.3.2] (P.4)

Note:

Wiring hole for installing directly on the wall (or open wiring)

- · Cut off the shaded area from the upper case using a knife, nippers, etc.
- Take out the remote control cord connected to the terminal block via this
 portion.

⚠ Caution:

- Do not move the screwdriver while inserting the tip far into the latches to prevent broken latches.
- Be sure to put the upper case securely in the latches by pressing it until a snap sounds. Loosely inserted, the upper case may fall down.

Note

The operating section is covered with a protective sheet. Before using the unit, remember to remove the protective sheet.

9.4. Function selection

<Wired remote controller type>

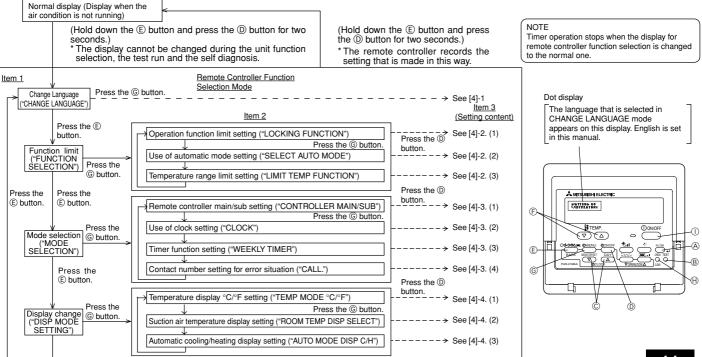
(1) Function selection of remote controller

The setting of the following remote controller functions can be changed using the remote controller function selection mode. Change the setting when neede

The Setting of the following remote controller functions can be changed using the remote controller function Selection mode. Change the Setting when needed.					
Item 2	Item 3 (Setting content)				
Language setting to display	Display in multiple languages is possible.				
(1) Operation function limit setting (operation lock) ("LOCKING FUNCTION")	Setting the range of operation limit (operation lock)				
(2) Use of automatic mode setting ("SELECT AUTO MODE")	Setting the use or non-use of "automatic" operation mode				
(3) Temperature range limit setting ("LIMIT TEMP FUNCTION")	Setting the temperature adjustable range (maximum, minimum)				
(1) Remote controller main/sub setting ("CONTROLLER MAIN/SUB")	Selecting main or sub remote controller				
	* When two remote controllers are connected to one group, one controller must be set to sub				
(2) Use of clock setting ("CLOCK")	Setting the use or non-use of clock function				
(3) Timer function setting ("WEEKLY TIMER")	Setting the timer type				
(4) Contact number setting for error situation ("CALL.")	Contact number display in case of error				
	Setting the telephone number				
(1) Temperature display °C/°F setting ("TEMP MODE °C/°F")	Setting the temperature unit (°C or °F) to display				
(2) Suction air temperature display setting ("ROOM TEMP DISP SELECT")	Setting the use or non-use of the display of indoor (suction) air temperature				
(3) Automatic cooling/heating display setting ("AUTO MODE DISP C/H")	• Setting the use or non-use of the display of "Cooling" or "Heating" display during				
	operation with automatic mode				
	Item 2 Language setting to display (1) Operation function limit setting (operation lock) ("LOCKING FUNCTION") (2) Use of automatic mode setting ("SELECT AUTO MODE") (3) Temperature range limit setting ("LIMIT TEMP FUNCTION") (1) Remote controller main/sub setting ("CONTROLLER MAIN/SUB") (2) Use of clock setting ("CLOCK") (3) Timer function setting ("WEEKLY TIMER") (4) Contact number setting for error situation ("CALL.") (1) Temperature display °C/°F setting ("TEMP MODE °C/°F") (2) Suction air temperature display setting ("ROOMTEMP DISP SELECT")				

[Function selection flowchart

[1] Stop the air conditioner to start remote controller function selection mode. \rightarrow [2] Select from item1. \rightarrow [3] Select from item2. \rightarrow [4] Make the setting. (Details are specified in item3) \rightarrow [5] Setting completed. \rightarrow [6] Change the display to the normal one. (End)



[Detailed setting]

[4] -1. CHANGE LANGUAGE setting

The language that appears on the dot display can be selected.

- Press the [MENU] button to change the language.
- ① Japanese (JP), ② English (GB), ③ German (D), ④ Spanish (E), ⑤ Russian (RU), ⑥ Italian (I), ⑦ Chinese (CH), ⑥ French (F)

[4] -2. Function limit

(1) Operation function limit setting (operation lock)

- To switch the setting, press the [ON/OFF] button.
- ① no1: Operation lock setting is made on all buttons other than the [① ON/OFF] button.
- ② no2: Operation lock setting is made on all buttons.
- ③ OFF (Initial setting value):

Operation lock setting is not made.

* To make the operation lock setting valid on the normal screen, it is necessary to press buttons (Press and hold down the [FILTER] and [① ON/OFF] buttons at the same time for two seconds.) on the normal screen after the above setting is made.

(2) Use of automatic mode setting

When the remote controller is connected to the unit that has automatic operation mode, the following settings can be made.

- To switch the setting, press the [⊕ON/OFF] button.
- ① ON (Initial setting value):

The automatic mode is displayed when the operation mode is selected.

2 OFF:

The automatic mode is not displayed when the operation mode is selected.

(3) Temperature range limit setting

After this setting is made, the temperature can be changed within the set range.

- To switch the setting, press the [ON/OFF] button.
- ① LIMIT TEMP COOL MODE:

The temperature range can be changed on cooling/dry mode.

② LIMIT TEMP HEAT MODE:

The temperature range can be changed on heating mode.

- ③ LIMIT TEMP AUTO MODE:
 - The temperature range can be changed on automatic mode.
- ④ OFF (initial setting): The temperature range limit is not active.
- * When the setting, other than OFF, is made, the temperature range limit setting on cooling, heating and automatic mode is made at the same time. However, the range cannot be limited when the set temperature range has not changed.
- To switch the upper limit setting and the lower limit setting, press the [4:11] button. The selected setting will flash and the temperature can be set.
- Settable range

 $\label{eq:cooling/Dry mode: Lower limit: 19°C ~ 30°C Upper limit: 30°C ~ 19°C Upper limit: 30°C ~ 19°C Upper limit: 28°C ~ 17°C Upper limit: 28°C ~ 17°C Upper limit: 28°C ~ 19°C Upper limit: 28°$

* The settable range varies depending on the unit to connect (Mr. Slim units, Freeplan units, and intermediate temperature units)

[4] -3. Mode selection setting

- (1) Remote controller main/sub setting
- To switch the setting, press the [⊕ON/OFF] button.
- (1) Main: The controller will be the main controller.
- 2 Sub: The controller will be the sub controller.

(2) Use of clock setting

- To switch the setting, press the [ON/OFF] button.
- ① ON: The clock function can be used.
- ② OFF: The clock function cannot be used.

(3) Timer function setting

- To switch the setting, press the [ON/OFF] button (Choose one of the followings.).
- 1) WEEKLY TIMER (Initial setting value):

The weekly timer can be used.

- ② AUTO OFF TIMER: The auto off timer can be used.
- ③ SIMPLE TIMER: The simple timer can be used.
- 4 TIMER MODE OFF: The timer mode cannot be used.
- * When the use of clock setting is OFF, the "WEEKLY TIMER" cannot be used.

(4) Contact number setting for error situation

- To switch the setting, press the [ON/OFF] button.
- ① CALL OFF: The set contact numbers are not displayed in case of error.
- ② CALL **** ****: The set contact numbers are displayed in case of error. CALL_: The contact number can be set when the display is as shown on the left.
- · Setting the contact numbers

To set the contact numbers, follow the following procedures.

Move the flashing cursor to set numbers. Press the [\P TEMP. (∇) and (\triangle)] button to move the cursor to the right (left). Press the [Θ CLOCK (∇) and (\triangle)] button to set the numbers.

[4] -4. Display change setting

(1) Temperature display °C/°F setting

- To switch the setting, press the [ON/OFF] button.
- ① °C: The temperature unit °C is used.
- ② °F: The temperature unit °F is used.

(2) Suction air temperature display setting

- To switch the setting, press the [ON/OFF] button.
- ① ON: The suction air temperature is displayed.
- ② OFF: The suction air temperature is not displayed.

(3) Automatic cooling/heating display setting

- To switch the setting, press the [⊕ON/OFF] button.
- ① ON: One of "Automatic cooling" and "Automatic heating" is displayed under the automatic mode is running.
- ② OFF: Only "Automatic" is displayed under the automatic mode.

(2) Unit Function Selection

Set the functions of each indoor unit from the remote controller, as required. The functions of each indoor unit can be selected only from the remote controller. Set the functions by selecting the necessary items from Table 1 and Table 2. (Default settings are also shown below)

Table 1. Itemized functions of the entire refrigerant system (select unit number 00 to 15)

Function	Settings	Mode no.	Setting no.	Check	Default settings	Remarks
Power failure	Not available		1		0	
automatic recovery	Available	01	2			Approx. 4-minute wait-period after power is restored.
Indoor temperature	Unit operating average		1		0	
detection	Set by unit's remote controller	02	2			
	Remote controller's internal sensor		3			
LOSSNAY	Not Supported		1		0	
connectivity	Supported (unit is not equipped with outdoor-air intake)	03	2			
	Supported (unit is equipped with outdoor-air intake)		3			
Power voltage	240 V	04	1		0	
	220 V. 230 V	1 54	2			

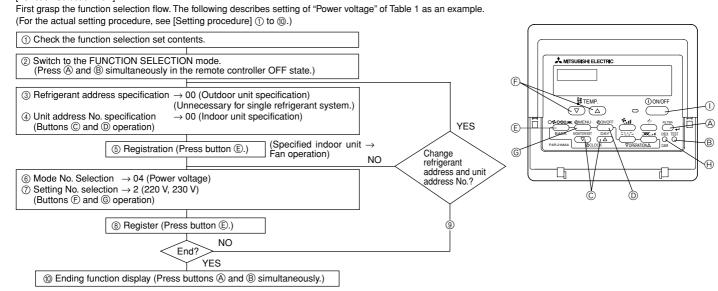
Table 2. Itemized functions of the indoor unit (select unit numbers 01 to 04 or AL)

Function	Settings	Mode no.	Setting no.	Check	Default settings	Remarks
Filter sign	100 Hr		1			
-	2500 Hr	07	2			
	No filter sign indicator		3		0	
Fan operation during thermo off	Operation	25	3		0	When selecting fan operation "Stop", set setting no. of Mode no. "02" in Table 1 to "3". Be sure to place the remote controller inside the room to be air-condi- tioned so that it can monitor the
in heating operation	Stop	25	2			
Fan operation during thermo off	Operation	27	1		0	
in cooling	Stop	21	2			room temperature.

Note

When the indoor unit functions were changed using the function selection after installation is complete, always indicate the set contents by entering \bigcirc or other mark in the appropriate check field of Table 1 and Table 2.

[Function selection flow]



[Procedure] (Set only when change is necessary.)

① Check the set contents of each mode. When the set contents of a mode were changed by function selection, the functions of that mode also change.

Check the set contents as described in steps ② to ⑦ and change the setting based on the entries in the Table 1 and Table 2. (Refer default settings, when change the setting)

3 Set the outdoor unit refrigerant address No.

ant address No. whose function you want to select.

2 Set the remote controller to Off. Press and hold down the A [FILTER] and B [TEST] buttons at the same time for two seconds or longer.

"FUNCTION SELECTION" blinks for a while, then the remote controller display changes to the display shown below.



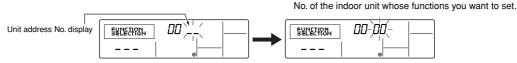
* If the remote controller enters the OFF state after the "FUNCTION SELECTION" and room temperature displays " 88" have flashes for two seconds, communication is probably abnormal. Make sure there are no noise sources near the transmission line.

Note:

If you make a mistake during operation, end function selection by step @ and repeat selection from step @.

Set the indoor unit address No.

Press the ① [ON/OFF] button. The unit address No. display "--" flashes.



- * When setting mode 01 to 04, set the unit address No. to "00".
- When setting modes 07, 25, 27:
 - When setting for each indoor unit, set the unit address No. to "01-04".
 - When batch setting for all indoor units, set the unit address No. to "AL".
- (5) Refrigerant address and unit address No. registration

Press the E [$\Box \$ \hat{\ } \circ \diamond \circ \mathscr{E}$] button. The refrigerant address and unit address No. are registered.

After a while, the mode No. display "— –" flashes.



* When " 88 " flashes at the room temperature display, the selected refrigerant address is not in the system.

When "F" is displayed at the unit address No. display, and when it flashes together with the refrigerant address display, the selected unit address No. does not exist. Correctly set the refrigerant address and unit address No. by repeating steps ② and ③.

(☐) When registered using the (E) [□♣○○∞] button, the registered indoor unit begins fan operation. When you want to know the location of the indoor units of the unit address No. whose functions were selected, check here. When the unit address No. is 00 or AL, all the indoor units of the selected refrigerant address perform the fan operation.

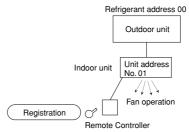
When the ${\mathbin{\mathbb C}}$ [${\mathbin{\mathbb C}}$ CLOCK $({\mathbin{\nabla}})$ and $({\mathbin{\triangle}})]$ buttons are pressed, the refrigerant

address No. decreases and increases between 00 and 15. Set it to the refriger-

When the ${\Bbb C}$ [${\Bbb C}$ CLOCK $({f \nabla})$ and $({f \triangle})$] buttons are pressed, the unit address

No. changes in 00 \rightarrow 01 \rightarrow 02 \rightarrow 03 \rightarrow 04 \rightarrow AL order. Set it to the unit address

Ex) When refrigerant address 00, unit address No. = 01 registered

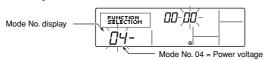


* When grouping by different refrigerant systems and an indoor unit other than the specified refrigerant address performs the fan operation, the refrigerant address set here is probably duplicated.

Recheck the refrigerant address at the outdoor unit DIP switches.

® Mode No. selection

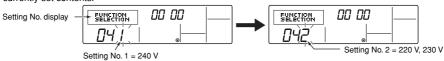
Select the mode No. you want to set with the E [# TEMP. (\bigtriangledown) and (\triangle)] buttons. (Only the settable mode numbers can be selected.)



? Select the setting contents of the selected mode.

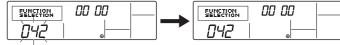
When the s [- MENU] button is pressed, the current setting No. flashes. Use this to check the currently set contents.

Select the setting No. using the \bigcirc [\oiint TEMP. (\bigtriangledown) and (\triangle)] buttons.



(8) The contents set at steps (3) to (7) are registered

When the 🖲 [🗆 🗫 • • • • • •] button is pressed, the mode No. and setting No. flash and registration begins. The flashing mode No. and setting No. change to a steady light and setting ends.



- When "--" appears at the mode No. and setting No. displays and " 🛭 This is at the room temperature display, communication is probably abnormal. Make sure there are no noise sources near the transmission line.
- ⑨ To select more functions, repeat steps ③ to ⑧.
- End function selection.

Press and hold down the A [FILTER] and B [TEST] buttons at the same time for two seconds or longer.

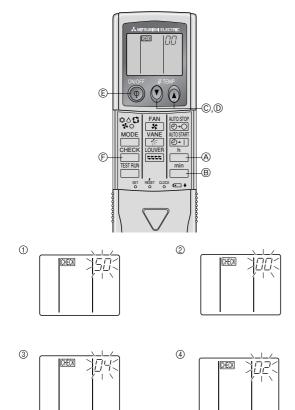
After a while, the function selection display disappears and the remote controller returns to the air conditioner off display.



Do not operate the air conditioner from the remote controller for 30 seconds after the end of function selection.

When the functions of an indoor unit were changed by function selection after the end of installation, always indicate the set contents by entering a \bigcirc or other mark in the appropriate check field of Table 1 and Table 2.

<Wireless remote controller type>



Changing the power voltage setting

Be sure to change the power voltage setting depending on the voltage used.

① Go to the function select mode

Press the DHECK button (F) twice continuously.

(Start this operation from the status of remote controller display turned off.) CHECK is lighted and "00" blinks.

Press the temp v button © once to set "50". Direct the wireless remote controller

toward the receiver of the indoor unit and press the _____ button (A).

 ${@}$ Setting the unit number Press the temp ${@}$ ${@}$ button ${@}$ and ${@}$ to set the unit number "00". Direct the wireless remote controller toward the receiver of the indoor unit and press the button B.

3 Selecting a mode

Enter 04 to change the power voltage setting using the \bigcirc \bigcirc and \bigcirc \bigcirc buttons. Direct the wireless remote controller toward the receiver of the indoor unit and press the button (A).

Current setting number:

1 = 1 beep (one second)

2 = 2 beeps (one second each)

3 = 3 beeps (one second each)

4 Selecting the setting number

Use the 0 0 and 0 0 buttons to change the power voltage setting to 02 (220 V, 230 V). Direct the wireless remote controller toward the sensor of the indoor unit and press the $\stackrel{h}{\sqsubseteq}$ button a.

⑤ To select multiple functions continuously

Repeat steps ③ and ④ to change multiple function settings continuously.

6 Complete function selection

Direct the wireless remote controller toward the sensor of the indoor unit and press the (button E.

Whenever changes are made to the function settings after construction or maintenance, be sure to record the added functions with an "O", in the "Check" column provided on the chart.

10. Electrical wiring

Precautions on electrical wiring

. ! Warning:

Electrical work should be done by qualified electrical engineers in accordance with "Engineering Standards For Electrical Installation" and supplied installation manuals. Special circuits should also be used. If the power circuit lacks capacity or has an installation failure, it may cause a risk of electric shock or fire.

- 1. Be sure to take power from the special branch circuit.
- 2. Be sure to install an earth leakage breaker to the power.
- Install the unit to prevent that any of the control circuit cables (remote controller, transmission cables) is brought in direct contact with the power cable outside the unit.
- 4. Ensure that there is no slack on all wire connections.
- Some cables (power, remote controller, transmission cables) above the ceiling may be bitten by mouses. Use as many metal pipes as possible to insert the cables into them for protection.
- Never connect the power cable to leads for the transmission cables. Otherwise the cables would be broken.
- Be sure to connect control cables to the indoor unit, remote controller, and the outdoor unit.
- 8. Put the unit to the ground on the outdoor unit side.
- Be sure to connect between the control cable terminal block of the outdoor unit and that of the indoor unit. (Cables have polarity, so make sure that they are connected according to the terminal numbers.)
- 10. Fix power source wiring to control box by using buffer bushing for tensible force (PG connection or the like). Connect control wiring to control terminal bed through the knockout hole of control box using ordinary bushing.

In case of A-control wiring there is high voltage potential on the S3 terminal caused by electrical circuit design that has no electrical insulation between power line and communication signal line. Therefore, please turn off the main power supply when servicing. And do not touch the S1, S2, S3 terminals when the power is energized. If isolator should be used between indoor unit and outdoor unit, please use 3-potes type.

⚠ Caution:

Be sure to put the unit to the ground on the outdoor unit side. Do not connect the earth cable to any gas pipe, water pipe, lightening rod, or telephone earth cable. Incomplete grounding may cause a risk of electric shock.

<Indoor unit controller board power supplied from outdoor unit>

The following connection pattern is available when connecting to PUH-P and PUHZ-RP outdoor unit.

[Fig. 10.0.1] (P.5)

- Outdoor unit power supply
- Indoor fan motor power supply
- © Earth leakage breaker
- ① Wiring circuit breaker or isolating switch
- E Power supply wiring for outdoor unit
- F Power supply wiring for indoor unit
- © Outdoor unit ⊕ Indoor uni
- ① Connection wiring for indoor/outdoor units (polarity)
- ③ Remote controller
- $\begin{tabular}{ll} \hline \& & Connection wiring for indoor/remote controller (no polarity) \\ \hline \end{tabular}$
- C Grounding
- Affix a label A that is included with the manuals near each wiring diagram for the indoor and outdoor units.

[Wiring example] (For metal piping)

	Power Cable	Breaker Capacity	Fuse	Remote controller cable	
PEH-RP200MYA	1.5 mm ² or thicker	15 A	15 A	Cable or wire of	
PEH-RP250MYA	1.5 mm ² or thicker	15 A	15 A	0.3 ~ 1.25 mm ² (max. DC 12 V)	

^{*} The grounding wire must be of the same diameter as the power cable wires

[Selecting earth leakage breaker (NV)]

To select NF or NV instead of a combination of Class B fuse with switch, use the following:

In the case of Class B fuse rated 15 A

Fuse (class B)	15 A
Earth leakage	NV100-SW
breaker ELB	15 A
(with over-load protection)	30 mA 0.1s or less

NV is a product name of MITSUBISHI.

- Power supply cords of appliances shall not be lighter than design 245 IEC 53 or 227 IEC 53.
- Indoor unit/outdoor unit connecting cords shall not be lighter than design 245 IEC 57
- A switch with at least 3 mm contact separation in each pole shall be provided by the Air conditioner installation.
- The connection wiring between the outdoor and indoor units can be extended up to a maximum of 80 m.

If 4 mm² used and S3 separated, Max. 50 m.

If 6 mm² used and S3 separated, Max. 80 m.

⚠ Caution

Do not use anything other than the correct capacity breaker and fuse. Using fuse, wire or copper wire with too large capacity may cause a risk of malfunction or fire.

<Indoor unit controller board power supplied from indoor unit>

The following connection pattern is available when connecting to PUHZ-RP out-door unit only.

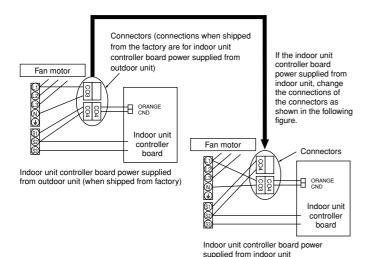
[Fig. 10.0.2] (P.5)

- Outdoor unit power supply
- ® Indoor fan motor power supply
- © Earth leakage breaker
- Wiring circuit breaker or isolating switch
- E Power supply wiring for outdoor unit
- Power supply wiring for indoor unit
- © Outdoor unit ⊕ Indoor unit
- ① Connection wiring for indoor/outdoor units (polarity)
- ③ Remote controller
- © Connection wiring for indoor/remote controller (no polarity)
- (L) Grounding
- * Affix a label B that is included with the manuals near each wiring diagram for the indoor and outdoor units.

If the indoor unit controller board power supplied from indoor unit, refer to the table at the below. Change the indoor unit electrical box wiring refering to the figure below and the DIP switch settings of the outdoor unit control board.

	Indoor unit specifications			
Indoor unit electrical box connector connection change	Required			
Label affixed near each wiring diagram for the indoor and outdoor units	Required			
Outdoor unit DIP switch settings (when indoor unit controller board power supplied from indoor unit only)	ON 3 OFF 1 2 (SW8)			

^{*} There are two types of labels (labels A and B). Affix the appropriate labels to the units according to the wiring method.



 For this wiring connection method, indoor and outdoor unit connection (S2, S3) wiring thickness can be a minimum of 0.3 mm² and wiring connection can be extended up to a maximum of 120 m.

Location of cable holes

[Fig. 10.0.3] (P.5)

- A For remote controller cables
- ® For outdoor unit connection cables © For power supply cables

Switching the external static pressure

The unit has been set at the factory so that the standard amount of air is provided when the static pressure outside the unit is 50 Pa. However, it is possible to change the motor torque so that the standard amount of air is provided when the static pressure outside the unit is 150 Pa. This can be done by removing the white connector and connecting the red one (both connectors are provided inside the control box) as shown below.

[Fig. 10.0.4] (P.5)

- (A) White connector (50 Pa) C01
- B Red connector (150 Pa) C02
- © Remove

11. Test run

11.1. Before test run

The test run can be carried out either from the outdoor unit or the indoor unit.

1. Checklist

- After the installation, piping setup, and wiring of the indoor and outdoor units is complete, check that refrigerant is not leaking, the power and control wires are not loose, and the poles are not reversed.
- Use a 500 V insulation resistance tester to make sure that the resistance between the power terminal and the ground is 1.0 MΩ or more. If it is less than 1.0 MΩ, do not operate the unit. * Absolutely do not touch the tester to indoor/outdoor connection terminals S1, S2, and S3. An accident could occur.
- Make sure there is no malfunction in the outdoor unit. (If there is a malfunction, you can diagnose it using LED1 on the board.)
- Check that the ball valve is fully open on both the liquid and gas ends.
- Check the electrical power phase. If the phase is reversed, the fan may rotate
 in the wrong direction or stop, or unusual sounds may be produced.
- Starting at least 12 hours before the test run, send current through the crankcase heater. (If the current is running for a shorter period of time, damage to the compressor could result.)
- For specific models requiring changing of settings for higher ceilings or selection of power supply ON/OFF capability, make proper changes referring to the description for Selection of Functions through Remote Controller.

After the above checks are complete, carry out the test run as indicated in the following outline.

11.2. Test run procedures

1) Indoor unit

Operating procedures

① Turn on the main power supply

While the display on the remote controller indicates "\vec{ma}", the remote controller is disabled. Turn off the "\vec{ma}" indicator before using the remote controller.



② Press the [TEST] button twice successively within three seconds. Test run starts.

"TEST RUN" and "OPERATION MODE" are displayed alternately.

③ Press [□♣≎≎∆≫] button

Cooling/drying mode: Cool air should start to blow

Heating mode: Warm air should start to blow (after a while).

4 Check the outdoor unit fan for correct running

The outdoor unit features automatic capacity control to provide optimum fan speeds. The fan keeps running at a low speed to meet the current outside air condition unless it exceeds its available maximum power. Then, in actuality, the fan may stop or run in the reverse direction depending on the outside air, which does not mean malfunction.

⑤ Press the [①ON/OFF] button to reset the test run in progress

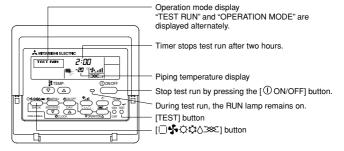
- The test run will be automatically shut down after two hours in response to the AUTO STOP setting of two hours on the timer.
- During the test run, the room temperature display shows the indoor unit tubing temperatures.
- In the case of the test run, the OFF timer will activate, and the test run will automatically stop after two hours.
- The room temperature display section shows the control temperature for the indoor units during the test run.
- Check that all the indoor units are running properly for simultaneous twin and triple operation.

Malfunctions may not be displayed even if the wiring is incorrect.

® Register a telephone number

The telephone number of the repair shop, sales office, etc., to contact if an error occurs can be registered in the remote controller. The telephone number will be displayed when an error occurs.

For registration procedures, refer to 9.4 Function selection of remote controller.



(*1

 If one of the above operations does not function correctly, the following causes should be considered, and if applicable, dealt with. (The following symptoms have been determined under test run mode. Note that "startup" in the chart means the *1 display above.)

Symptoms		Cours	
Remote Controller Display	Outdoor Substrate LED Display	Cause	
Remote controller is displaying "PLEASE WAIT", and	After "startup" display, "00" is dis-	After power is turned ON, system startup lasts for about 2 mins., and	
operation is not possible.	played (correct operation).	"PLEASE WAIT" is displayed (correct operation).	
After power is turned ON, "PLEASE WAIT" is dis-	After "startup" display, error code is	Outdoor unit's safeguard installation connector is open.	
played for 3 mins., then error code is displayed.	displayed.	Negative phase and open phase of outdoor unit's power terminal board	
		(Single phase: L, N, ⊕ /triple phase: L1, L2, L3, N, ⊕)	
	After "startup" display, "F1" (negative	• Incorrect connection of outdoor terminal board (Single phase: L, N, 🖶 /	
	phase) is displayed.	triple phase: L1, L2, L3, N, 🕒 grounding and S1, S2, S3)	
Power is turned ON, and "EE" or "EF" are displayed	After "startup" display, "00" or "EE" is	Outdoor unit and indoor unit construction differ	
after "PLEASE WAIT" is displayed.	displayed ("EE" is displayed when a		
	test run is made).		
Display messages do not appear even when remote	After "startup" display, "EA" (error for	Wiring for the indoor and outdoor unit is not connected correctly. (Polarity	
controller operation switch is turned ON (operation	number of units) or "Eb" (unit number	is wrong for S1, S2, S3)	
lamp does not light up).	error) is displayed.	Remote controller transmission wire short	
	After "startup" display, "00" is dis-	There is no outdoor unit for address 0 (address is something other than	
	played (correct operation).	0).	
	After "startup" display, "00" is dis-	Remote controller transmission wire burnout	
	played (correct operation).		
Operation display appears but soon disappears even	After "startup" display, "00" is dis-	After cancellation of function selection, operation is not possible for about	
when remote controller operations are executed.	played (correct operation).	30 secs. (correct operation).	

Press the remote controller's "CHECK" button twice consecutively to be able to run a self-check. See the chart below for content of error code displays.

LCD	Nonconformity Content	LCD	Nonconformity Content	LCD	Nonconformity Content
P1	Suction sensor error	P8	Tube temperature error	E6 ~ EF	Signal error between indoor and outdoor
P2	Tubing (liquid) sensor error	P9	Tube (2-phase tube) sensor error		units
P4	Drain sensor error	U0 ~ UP	Outdoor unit nonconformity		No error history
P5	Drain overflow safeguard operation	F1 ~ FA	Outdoor unit nonconformity	FFFF	No relevant unit
P6	Freezing/overheating safeguard operation	E0 ~ E5	Signal error between remote controller and		
			indoor unit		

See the chart below for details of the LED displays (LED 1, 2, 3) on the indoor substrate.

LED 1 (microcomputer power supply)	Displays the ON/OFF of power for control. Check that this is lit during normal use.
LED 2 (remote controller feed)	Displays the ON/OFF of feed to wired remote controller. Is only lit for indoor unit linked to outdoor unit with address "00".
LED 3 (indoor and outdoor signals)	Displays signal between indoor and outdoor units. Check that this is flashing during normal use.

2) Outdoor unit

1) Check Items

- After installation of indoor and outdoor units, and piping and electric wiring work, check that the unit is free from leaks of refrigerant, loosened connections, and incorrect polarity.
- Check that there is no negative phase and open phase. (The F1 message for negative phase and the F2 message for open phase will flash at LED 1 on the outdoor substrate. If this happens, rewire correctly.)
- Measure the impedance between power terminals (Single phase: L, N, 1/ triple phase: L1, L2, L3, N, 1) and the ground with a 500 V Megger and check that it is 1.0 M Ω or more. Do not operate the equipment if measurement is less than 1.0 M Ω . * Never conduct this operation on the outdoor connection wiring terminals (S1, S2, S3) as this causes damage.
- When there is no error at the outdoor unit.
 (If there is an error at the outdoor unit, it can be evaluated at LED 1 [digital display] of the outdoor substrate.)
- The stop valves are open both the liquid and gas sides.
 After checking the above, execute the test run in accordance with the following.

2) Test run start and finish

 Operation from the indoor unit Execute the test run using the installation manual for the indoor unit.

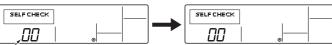
11.3. Self-check

Retrieve the error history of each unit using the remote controller.

① Switch to the self check mode.

When the \bigoplus [CHECK] button is pressed twice successively within three seconds, the display shown below appears.

② Set the address or refrigerant address No. you want to self check. When the () (↑ TEMP. () and (△)) buttons are pressed, the address decreases and increases between 01 and 50 or 00 and 15. Set it to the address No. or refrigerant address No. you want to self check.



Self check address or self check refrigerant address

Operation from the outdoor unit
 Execute settings for test run start, finish and operation mode (cooling, heating)
 using the DIP switch SW 4 on the outdoor substrate.

[Fig. 11.2.1] (P.5)

A StopCoolingOperationHeating

- $\scriptsize \textcircled{\scriptsize 1}$ Set the operation mode (cooling, heating) using SW 4-2
- ② Turn ON SW 4-1, The operation mode for SW 4-2 will be adhered to, and the test run will commence
- ③ Turn OFF SW 4-1 to finish the test run
- There may be a faint knocking noise emitted from the proximity of the fan during the test run. This is torque fluctuation occurring due to control of fan revolutions. There is no problem with the product.

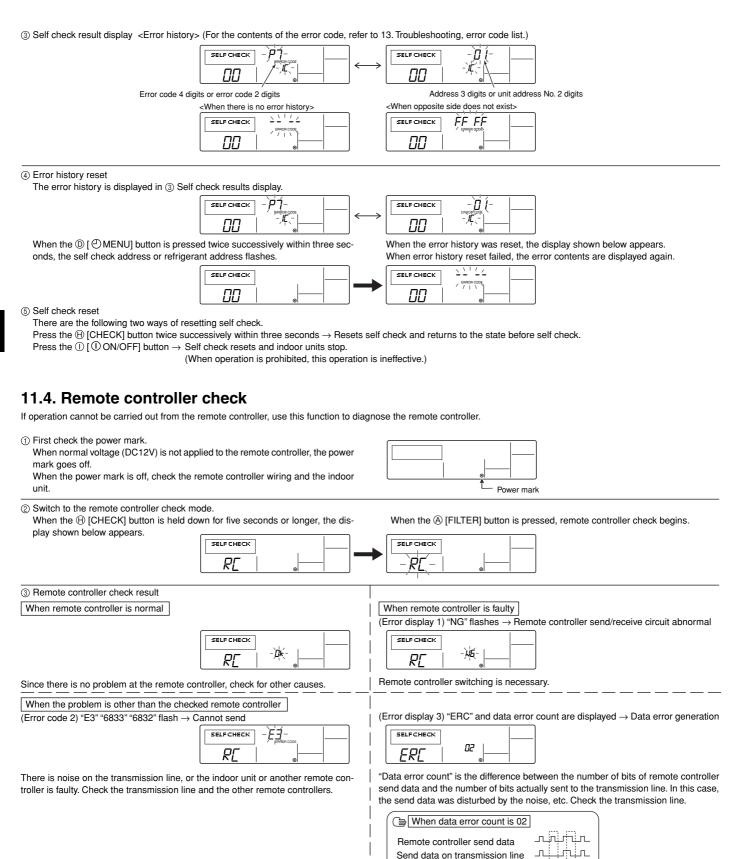
Note:

The SW 4-2 operation mode cannot be changed during the test run. (To change test run mode, stop the equipment with SW 4-1, change the operation mode, then restart test run with SW 4-1.)

- If the 2-hour timer is set, the test run will stop automatically after 2 hours.
- During the test run, the room temperature display on the indoor unit will indicate the temperature of the indoor unit piping.

SELF CHECK _____

Approximately three seconds after the change operation, the self check refrigerant address changes from flashing to a steady light and self check begins.



④ Remote controller check reset

When the (i) [CHECK] button is held down for five seconds or longer, remote controller check resets and the "PLEASE WAIT" and RUN lamp flash. Approximately 30 seconds later, the remote controller returns to the state before remote controller check.

12. Test run [for wireless remote controller]

12.1. Before test run

- After completing installation and the wiring and piping of the indoor and outdoor units, check for refrigerant leakage, looseness in the power supply or control wiring, and wrong polarity.
- Use a 500-volt megohmmeter to check that the resistance between the power supply terminals and ground is at least 1.0 MΩ.
- Do not carry out this test on the control wiring (low voltage circuit) terminals.

⚠ Warning:

Do not use the air conditioner if the insulation resistance is less than 1.0 $\mathrm{M}\Omega.$

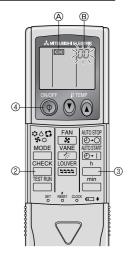
⚠ Caution:

The compressor will not operate unless the power supply phase connection is correct.

12.2. Self-check

- 1 Turn on the power.
- Press the button twice.

 (Start this operation from the status of remote controller display turned off.)
 - CHECK begins to light.
 - ® "00" begins to blink.
- While pointing the remote controller toward the unit's receiver, press the button. The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.
- ④ Press the ON/OFF button to stop the selfcheck.



For description of each check code, refer to the following table.

① Check code	Symptom	② Buzzer sound	③ OPE LED
P1	Intake sensor error	Single beep × 1	Lit for 1 sec. × 1
P2	Pipe sensor error	Single beep × 2	Lit for 1 sec. × 2
P4	Drain sensor error	Single beep × 4	Lit for 1 sec. × 4
P5	Drain pump error	Single beep × 5	Lit for 1 sec. × 5
P6	Freezing / Overheating safeguard operation	Single beep × 6	Lit for 1 sec. × 6
P8	Pipe temperature error	Single beep × 8	Lit for 1 sec. × 8
P9	TH5 sensor error	Single beep × 2	Lit for 1 sec. × 2
U0-UP	Outdoor unit error	Double beep × 1	Lit for 0.4 sec. + 0.4 sec. × 1
F1-FA	Outdoor unit error	Double beep × 1	Lit for 0.4 sec. + 0.4 sec. × 1
E0-E5	Signal error between remote controller and indoor units	Sounds other than above	Lights other than above
E6-EF	Communication error between indoor and outdoor units	Sounds other than above	Lights other than above
	No alarm history	No sound	Not lit
FFFF	No unit	Triple beep	Not lit

- On wireless remote controller
- The continuous buzzer sounds from receiving section of indoor unit.
- 3 Blink of operation lamp
- On wired remote controller
- ① Check code displayed in the LCD.
- If the unit cannot be operated properly after the above test run has been performed, refer to the following table to remove the cause.

	Symptom	Cause	
Wired remote control	er	LED 1, 2 (PCB in outdoor unit)	dause
PLEASE WAIT For about 2 minutes follo power-on		After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)	For about 2 minutes following power-on, operation of the remote controller is not possible due to system start-up. (Correct operation)
PLEASE WAIT → Error code	After about 2 minutes has	Only LED 1 is lighted. \rightarrow LED 1, 2 blink.	Connector for the outdoor unit's protection device is not connected. Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, L3)
Display messages do not appear even when operation switch is turned ON (operation lamp does not light up).		Only LED 1 is lighted. → LED 1 blinks twice, LED 2 blinks once.	Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) Remote controller wire short

On the wireless remote controller with condition above, following phenomena takes place.

- No signals from the remote controller are accepted.
- OPE lamp is blinking.
- The buzzer makes a short pipng sound.

Note:

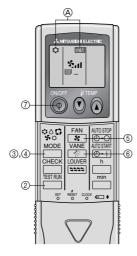
Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED1, 2, 3) provided on the indoor controller, refer to the following table.

LED1 (power for microcomputer)	Indicates whether control power is supplied. Make sure that this LED is always lit.
LED2 (power for remote controller)	Indicates whether power is supplied to the remote controller. This LED lights only in the case of the indoor unit which is connected to the outdoor unit refrigerant address "0".
LED3 (communication between indoor and outdoor units)	Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking.

12.3. Test run method

- ① Turn on the power to the unit at least 12 hours before the test run.
- ② Press the button twice continuously. (Start this operation from the status of remote controller display turned off.)
 - and current operation mode are displayed.
- ③ Press the _____ (♥♦♠♥) button to activate ∞∞ mode, then check whether cool air is blown out from the unit.
- ④ Press the _____ (♥♦♥ ₺) button to activate HEAT ◊ mode, then check whether warm air is blown out from the unit.
- ⑤ Press the s button and check whether fan speed changes.
- Press the ON/OFF button to stop the test
 run



Note:

- Point the remote controller towards the indoor unit receiver while following steps ② to ⑥.
- It is not possible to run in FAN, DRY or AUTO mode.

13. Troubleshooting

13.1. How to handle problems with the test run

Error code list: details

Remote controller display	MELANS display	Error details	Problem location
E0	6831, 6834	Remote controller communication – reception error	Remote Controlle
E1, E2	6201, 6202	Remote controller board error	Remote Controlle
E3	6832, 6833	Remote controller communication – transmission error	Remote Controlle
E4	6831, 6834	Remote controller communication – reception error	Indoor unit
E5	6832, 6833	Remote controller communication – transmission error	Indoor unit
E6	6740, 6843	Communication between indoor and outdoor units – reception error	Indoor unit
E7	6841, 6842	Communication between indoor and outdoor units – transmission error	Indoor unit
E8	6840, 6843	Communication between indoor and outdoor units – reception error	Outdoor unit
E9	6841, 6842	Communication between indoor and outdoor units – transmission error	Outdoor unit
EA	6844	Indoor/outdoor connection wiring error, indoor unit overload (5 units or more)	Outdoor unit
EB	6845	Indoor/outdoor connection wiring error (interference, loose)	Outdoor unit
EC	6846	Excessive time in use	Outdoor unit
ED	0403	Serial communication error	Outdoor unit
EE	0403	Serial communication error	M-NET board
F1	4103	Reverse phase, out of phase verification	Outdoor unit
F8	4115	Faulty input circuit	Outdoor unit
A0	6600	Duplicated M-NET address setting	M-NET board
A2	6602	M-NET error in PH/W transmission	M-NET board
A3	6603	M-NET bus busy	M-NET board
A6	6606	M-NET communication error with P transmission	M-NET board
A7	6607	M-NET error – no ACK	M-NET board
A8	6608	M-NET error- no response	M-NET board
EF	undefined	Undefined error code	-
U2	1102	Outlet temperature error	Outdoor unit
U2	1108	CN23 Short-circuit Connector Unplugged	Outdoor unit
U3	5104	Open/short in discharge temp thermistor	Outdoor unit
U4	5105	Open/short in liquid temp or condenser/evaporator temp thermistor	Outdoor unit
U6	4101	Compressor overcurrent interruption (51C operation)	Outdoor unit
UE	1302	High pressure error (63H1 operation)	Outdoor unit
UL	1300	Low pressure error (63L operation)	Outdoor unit
F8	4115	Power synchronous idle circuit error	Outdoor unit
P1	5101	Inlet sensor error	Indoor unit
P2	5102	Piping sensor error	Indoor unit
P4	2503	Drain sensor error	Indoor unit
P5	2502	Drain overflow protector operation	Indoor unit
P5	2500	Water leak error (PDH only)	Indoor unit
P6	1503	Freeze prevention operation	Indoor unit
P6	1504	Surge prevention operation	Indoor unit
P8	1110	Piping temperature error	Indoor unit

Depending on the position of the SW2 switch on A Control Service Tool, the segments light up to indicate the running condition of the unit and the particulars of the check code.

SW2 setting 123456	Item		Display contents			
000000	Operation mode/relay output	·	O: stop C: cooling H: heating d: defrosting			
			1: SV 2: 21S4 4: MC 8: Warning-up MC	\Box	Relay output = SV + 21S4 + MC Ex. During cooling mode, when MC and SV are ON: C5	
			curs, the error code (1) are displayed in		S.W. 60	
011100	Error code history 1	The amount of the first	110 114)	/**	Nove discount in the second in	
111100	Error code history 2	The error code (ex	x. uo, ua) and error i	nuicator (* i) are displayed in alternation.	

^{*1} Display system for error indicator

The indicator corresponds to the following numbers

0Outdoor unit
1Indoor unit No.1
2Indoor unit No.2
3Indoor unit No.3
4Indoor unit No.4

13.2. The following occurrences are not problems or errors

Problem	Remote controller display	Cause
The fan setting changes during heating.	Ordinary display	During thermostat OFF mode, light air or low air operation will take place. During thermostat ON mode, light air or low air will switch automatically to set notch on the basis of time or piping temperature.
The fan stops during heating.	Defrosting display	During defrosting, the fan will stop.
When the switch is turned ON, the fan does not begin to operate.	Heating preparations underway	After the switch is turned to ON or until the piping temperature reaches 35°C, there will be 5 minutes of light air operation. After that there will be 2 minutes of low air operation, then set notch will begin (hot adjustment control).
The outdoor unit fan turns in reverse or stops, and an unusual sound is heard.	Ordinary display	There is a risk of the power to the outdoor unit being connected in reverse phase. Be sure to check that the phase is correct.

Note:

If the fan in the indoor unit does not operate, check the over-current relay on the fan motor to determine whether it has been tripped.

If the over-current relay has been tripped, reset it after eliminating the cause of the problem (e.g. motor lock).

To reset the over-current relay, open the control box and press the green claw on bottom-right of the relay until a click is heard. Release the claw and check that it returns to its original position.

Note that if it is pressed too hard it will not return to its original position.

14. System control

14.1. System settings

[Fig. 14.1.1] (P.5)

- Outdoor unit
- Indoor unit
- © Main remote controller
- Subordinate remote controller
- © Standard 1:1 (Refrigerant address = 00)
- F Refrigerant address = 01
- © Refrigerant address = 02
- * Set the refrigerant address using the DIP switch of the outdoor unit.
- ① Wiring from the Remote Control

This wire is connected to TB5 (terminal board for remote controller) of the indoor unit (non-polar).

② When a Different Refrigerant System Grouping is Used Up to 16 refrigerant systems can be controlled as one group using the MA remote controller.

Note:

In single refrigerant system, there is no need of wiring 2.

SW1		Function	Operation according to switch setting	
Function table		Function	ON	OFF
<sw1></sw1>	SW1 2 function settings 4 5	Compulsory de- frosting	Start	Normal
ON [00000]		2 Error history clear	Clear	Normal
OFF IIIII		3 Refrigerant sys-	Settings for outdoor unit ad-	
1 2 3 4 5 6		4 tem address set-	dresses 0 to 15	
		5 ting		
		6		

14.2. Examples of refrigerant system address setting

	Ex.	Indoor unit	Outdoor unit	Outdoor unit refrigerant	Remote controller
	LA.				power supply unit
	1	PEH-RP200·250MYA	-	00	0

^{*} Set the refrigerant system address of one outdoor unit to 00 for the power supply to the remote controller.

(The refrigerant system address is set to 00 when shipped from the factory.) Do not duplicate the refrigerant system address settings within the same system.

This product is designed and intended for use in the residential, commcial and light-industrial environment.	This product is designed and intended for use in the residential, commercial and light-industrial environment.					
The product at hand is based on the following EU regulations: • Low Voltage Directive 73/23/EEC • Electromagnetic Compatibility Directive 89 336/EEC	,					
Please be sure to put the contact address/telephone number on this manual before handing it to the customer.						

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MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN