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Safety precautions

Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.



- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- **WARNING** •Verify that installation and testing operations are performed by qualified personnel.
 - Verify that the air conditioner is not installed in an easily accessible area.

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ▶ This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ► The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ▶ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.

2

Safety precautions

- ▶ Do not place containers with liquids or other objects on the unit.
- ▶ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ▶ The packing material and exhaust batteries of the remote controller(optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

Installing the unit

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.

- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
 - For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.

Power supply line, fuse or circuit breaker

- Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- Always verify that a suitable grounding connection is available.
- Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- ▶ Always verify that the cut-off and protection switches are suitably dimensioned.
- Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram
 included in the manual.
- Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.
- ▶ Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.



- Make sure that you earth the cables.
 - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- ♦ Install the circuit breaker.
 - If the circuit breaker is not installed, electric shock or fire may occur.
- ♦ Make sure that the condensed water dripping from the drain hose runs out properly and safely.
- ◆ Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.
- Install the indoor unit away from lighting apparatus using the ballast.
 - If you use the wireless remote controller, reception error may occur due to the ballast of the lighting apparatus.
- Do not install the air conditioner in following places.
 - Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
 - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet. The copper pipe or connection pipe may corrode and refrigerant may leak.
 - -The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
 - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust. The place where thinner or gasoline is handled. Gas may leak and it may cause fire.

Preparation for installation

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

General

Do NOT install the air conditioner in a location where it will come into contact with the following elements:

- ◆ Combustible gases
- Saline air
- Machine oil
- Sulphide gas
- Special environmental conditions

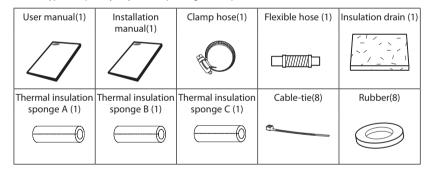
If you must install the unit in such conditions, first consult your dealer.

Avoid installing the air conditioner:

- In areas where it is exposed to direct sunlight. Close to heat sources.
- In damp areas or locations where it could come into contact with water. (for example rooms used for laundry)
- In areas where curtains and furniture could affect the supply and discharge of air.
- ♦ Without leaving the required minimum space around the unit. (as shown in the drawing)
- In scarcely ventilated areas.
- On surfaces that are unable to support the weight of the unit without deforming, breaking or causing vibrations
 during the use of the air conditioner.
- In a position that does not enable the condensate drainage pipe to be correctly installed. (at the end of the
 installation. It is always essential to check the efficiency of the drainage system)

Accessories

The following accessories are supplied with the indoor unit.
 The type and quantity may differ depending on the specifications.



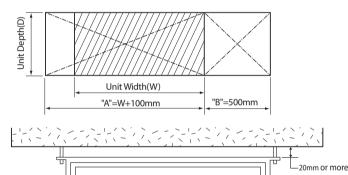
Deciding on where to install the indoor unit

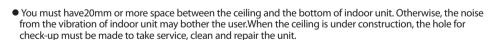
Indoor unit

- There must be no obstacles near the air inlet and outlet.
- Install the indoor unit on a ceiling that can support its weight.
- Maintain sufficient clearance around the indoor unit.
- Make sure that the water dripping from the drain hose runs away correctly and safely.
- The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- After connecting a chamber, insulate the connection part between the indoor unit and the chamber with t10
 or thicker insulation. Otherwise, there can be air leak or dew from the connection part.

Space requirements for installation & service

- Construction Standard for Inspection Hole
- 1) In case, the ceiling is tex tile, Inspection hole dose not need.
- 2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
- a. Height is more than 0.5m: Only "B" [Inspection for PBA] is applied.
- b. Height is less than 0.5m: Both "A"&"B" are applied.
- c. "A"&"B" are inspection holes.



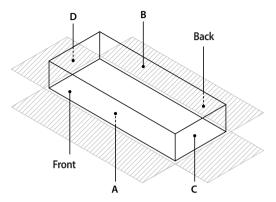


-20mm or more

- It is possible to install the unit at an height of between 2.2~2.5m from the ground, if the unit has a duct with a well defined lenght (300mm or more), to avoid fan motor blower contact.
- •If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply extra 10mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.

Deciding on where to install the indoor unit

Insulation Guide

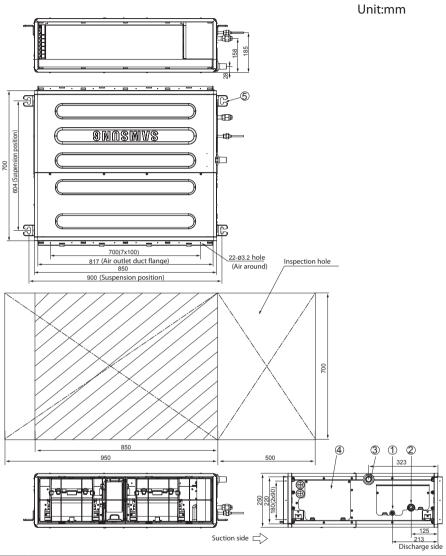


Thickness: more than 10mm Unit: mm

	Indoor Unit			В	С	D	Front/Back
AM036HNMI AM045HNMI AM056HNMI AM071HNMI	IPKH IPKH	850X700X250	850X250	850X250	700x250	700x250	
AM090HNMI	IPKH	1200x700x250	1200x250	1200x250	700x250	700x250	Insulate the front and back sid in proper size at the same time when insulating the suction duct and discharge duct.
AM112HNMI AM128HNMI AM140HNMI AM112HNHF AM128HNHF AM140HNHF	IPKH IPKH PKH PKH	1300x700x300	1300x300	1300x300	700x300	700x300	

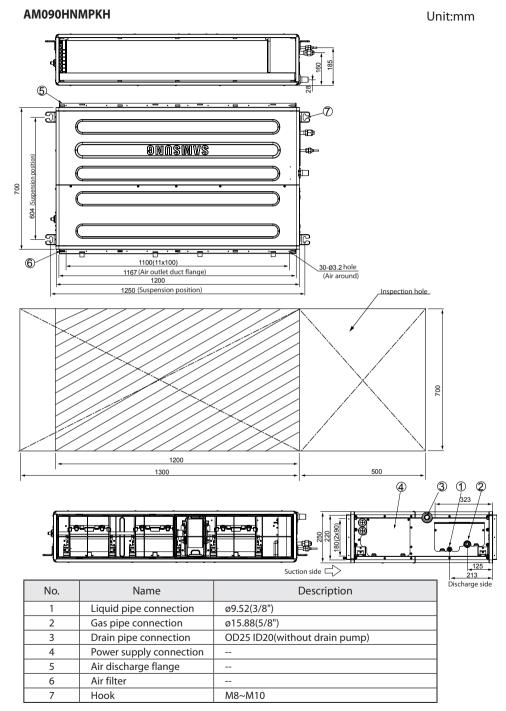
- ♦ Insulate the end of the pipe and some curved area by using separate insulator.
- Insulate the discharge and suction part at the same time when you insulate connection duct.
- ◆ If the humidity is over 80%, it is required to add 10mm polyethylene foam or other similar insulation to the indoor unit when installing belt or pipe type indoor unit on the ceiling.

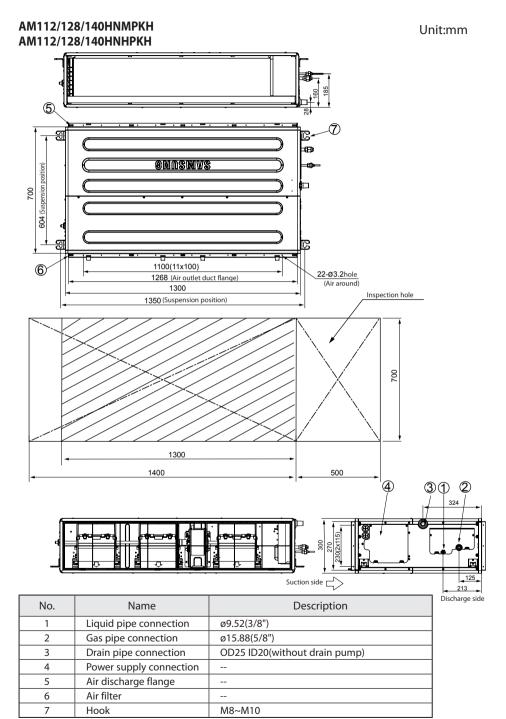
AM036/045/056/071HNMPKH



No.	Name	Description
1	Liquid pipe connection	*036/045/056*: ø6.35(1/4") *071*: ø9.52(3/8")
2 Gas pipe connection		*036/045/056*: ø12.70(1/2") *071*: ø15.88(5/8")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

Deciding on where to install the indoor unit





Indoor unit installation

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.



- Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.
- Pattern sheet is supplied depending on the model type.
- 2 Insert bolt anchors. Use existing ceiling supports or construct a suitable support as shown in figure.
- 3 Install the suspension bolts depending on the ceiling type.



•Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.

- •If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.
- If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.
- 4 Screw eight nuts to the suspension bolts making space for hanging the indoor unit.



•You must install all the suspension rods.

5 Hang the indoor unit to the suspension bolts between two nuts.

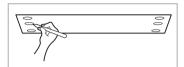


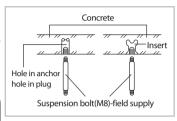
-Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

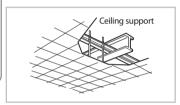
- **6** Screw the nuts to suspend the unit.
- 7 Adjust level of the unit by using measurement plate for all 4 sides.



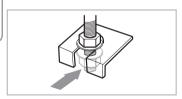
- •For proper drainage of condensate, give a 3mm slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.
- When installing the indoor unit, make sure it is not tilted toward front or back side.

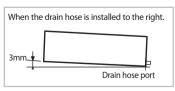












Purging the unit

From factory the unit is supplied and set with a pre-charge of nitrogen gas. (insert gas) Therefore, all insert gas must be purged before connecting the assembly piping.

Unscrew the pinch pipe at the end of each refrigerant pipe.

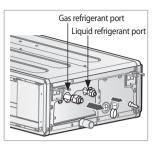
RESULT: All inert gas escapes from the indoor unit.



To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.



- Connect the indoor and outdoor units using pipes with flared connections (not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe (Cu DHP type to ISO 1337 or UNI EN 12735-1), suitable for operating pressures of at least 4200kPa and for a burst pressure of at least 20700kPa. Copper pipe for hydrosanitary applications is completely unsuitable.
- For sizing and limits (height difference, line length, max. bends, refrigerant charge, etc.) see the outdoor unit installation manual.
- All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

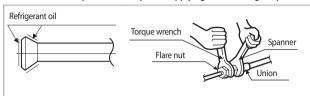


*The designs and shape are subject to change according to the model.

Connecting the refrigerant pipe

There are two refrigerant pipes of different diameters:

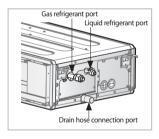
- A smaller one for the liquid refrigerant
- ◆ A larger one for the gas refrigerant
- ◆ The inside of copper pipe must be clean & has no dust
- 1. Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.

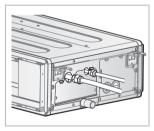


Outer Diameter (D)	Torque (N•m)
ø6.35 mm	14~18
ø9.52 mm	34~42
ø12.70 mm	46~61
ø15.88 mm	68~82
ø19.05 mm	100~120



- If the pipes must be shortened refer to page 15.
- 2. Must use insulator which is thick enough to cover the refrigerant tube to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.
- 3. Cut off any excess foam insulation.
- 4. Be sure that there must be no crack or wave on the bended area.
- It would be necessary to double the insulation thickness(10mm or more) to prevent condensation even on the insulator when if the installed area is warm and humid.
- 6. Do not use joints or extensions for the pipes that connect the indoor and outdoor unit. The only permitted connections are those for which the units are designed.





*The designs and shape are subject to change according to the model.

Cutting/Flaring the pipes

- 1. Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool and pipe holder)
- 2. If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.



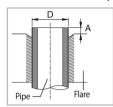






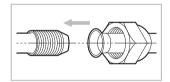


- 3. To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
- 4. Slide a flare nut on to the pipe and modify the flare.



Outer Diameter (D)	Depth (A)
ø6.35 mm	1.3 mm
ø9.52 mm	1.8 mm
ø12.70 mm	2.0 mm
ø15.88 mm	2.2 mm
ø19.05 mm	2.2 mm

5. Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.









Surface





Uneven Thickness

6. Align the pipes and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.

Valve	Flare nut		Valve cap		Pressure port cap		Valve needle		Pressure port	
vaive	Wrench(mm)	N•m	Wrench(mm)	N•m	Wrench(mm)	N•m	Wrench(mm)	N•m	Wrench(mm)	N•m
1/4"	17	18	23	20	18	16~18	Allen(hex.) 5	9	-	0.34
3/8"	22	42	23	20	18	16~18	Allen(hex.) 5	9	-	0.34
1/2"	26	55	29	40	18	16~18	Allen(hex.) 5	13	-	0.34
5/8"	29	65	29	40	18	16~18	Allen(hex.) 5	13	-	0.34
3/4"	36	100	38	40	18	16~18	Allen(hex.) 5	13	-	0.34



- If the pipes require brazing ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.
- ์ Nitrogen blowing pressure range is 0.02 ~ 0.05MPa.

Performing leak test & insulation

Leak test

◆ LEAK TEST WITH NITROGEN (before opening valves)

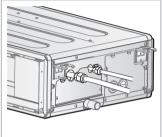
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R410A, it's responsable of installer to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 40 bar (gauge).

◆ LEAK TEST WITH R410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R410A.



• Discharge all the nitrogen to create a vacuum and charge the system.



*The designs and shape are subject to change according to the model.

Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1 To avoid condensation problems, place T13.0 or thicker Acrylonitrile Butadien Rubber separately around each refrigerant pipe.



Always make the seam of pipes face upwards.



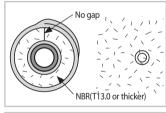
The insulation has to be produced in full compliance of European regulation reg. EEC / EU 2037/ 2000 that requires the use of sheaths insulation form without using CFC and HCFC gases for health and the environment.

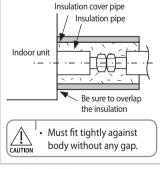
- 2 Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.
- 3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 4 The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.



All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

- 5 Select the insulation of the refrigerant pipe.
 - Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
 - ◆ Indoor temperature of 30°C and humidity of 85% is the stan dard condition.
 If installing in a high humidity condition, use one grade thicker insulator by referring to the table below.
 If installing in an unfavorable conditions, use thicker one.
 - ♦ Insulator's heat-resistance temperature should be more than 120°C.





14

		Insulation Type		
Pipe	Pipe size	Standard [30°C, 85%]	Remarks	
		EPDI		
Liquid	Ø6.35 ~ Ø9.52	9t	9t	
pipe	Ø12.7 ~ Ø19.05	13t	13t	
	Ø6.35	13t	19t	
	Ø9.52			Internal temperature is higher than 120°C
Gas	Ø12.70	19t	25+	
pipe	Ø15.88	191	25t	
	Ø19.05			

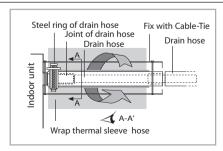
- When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.
- High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand.)
- <Operation purpose condition>
- Restaurant ceiling, sauna, swimming pool etc.
- <Building construction condition>
- The ceiling frequently exposed to moisture and cooling is not covered.
- e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.
- -The place where the pipe is installed is highly humid due to the lack of ventilation system.

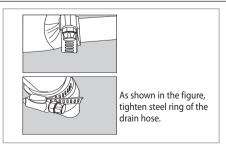
Drainpipe and drain hose installation

Care must be taken when installing the drain hose for the indoor unit to ensure that any condensate water is correctly drained outside.

The drain hose can be installed to the right of the base pan.

- 1 Installing the drain hose should be the shorter, the better.
 - ◆ In order to discharge condensation water, the drain hose should keep tilted.
 - ◆ Fix the drain hose with Cable-Tie, so that it will not separate from the machine.
 - ◆ While using draining pump, connect the end with draining pump.
- 2 Insulate and fix the drain hose according to the figure.
 - ◆ Insert the drain hose to bottom of the outfall of water basin.
 - ◆ Lock steel ring of the drain hose according to the figure.
 - ◆ Wind and wrap steel ring and drain hose fully with thermal insulation sponge; fix both ends of external layer with ribbon for thermal insulation.
 - ◆ After being installed, drain hose must be insulated fully by heat insulating material. (To be provided at site.)



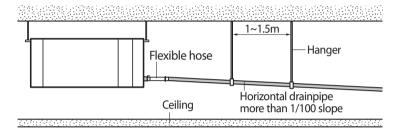


Drainpipe and drain hose installation

Drainpipe Connection

Without the drain pump

- 1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
- 2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.
- 3. Do not install the drainpipe to upward position. It may cause water flow back to the unit.

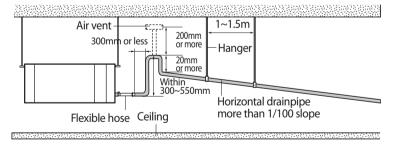


With the drain pump

- The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.
- 2. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
- 3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.



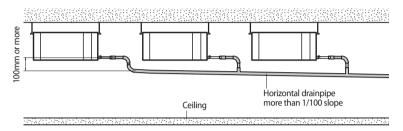
- You may not need to install it if there were proper slope in the horizontal drainpipe.
- 4 The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.



Centralized Drainage

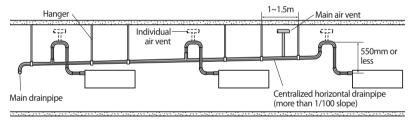
Without the drain pump

- 1 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
- 2 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.



With the drain pump

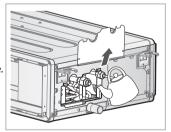
- 1 Install main air vent at the front of the farthest indoor unit from the main drain when installed indoor units are more than 3.
- 2 You may need to install individual air vent to prevent water flow back at the top of each indoor unit drainpipe.



Testing the drainage

Prepare a little water about 2 liter.

- 1 Pour water into the base pan in the indoor unit as shown in figure.
- 2 Confirm that the water flows out through the drain hose.



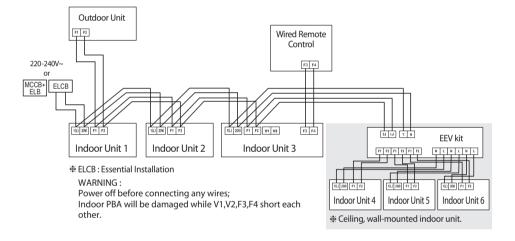
Wiring work

Power and communication cable connection

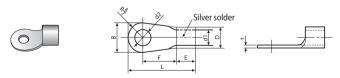
- 1. Before wiring work, you must turn off all power source.
- Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.

ELCB:Earth Leakage Circuit Breaker MCCB:Molded Case Circuit Breaker ELB:Earth Leakage Breaker

- 3. The power cable should be used only copper wires.
- **4.** Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.
- 5. Connect F3, F4(for communication) when installing the wired remote control.



Selecting compressed ring terminal



Norminal	Norminal	В		D		d1		E	F	L	d	2	t
dimensions for cable (mm²)	dimensions for screw (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
1.5	4 4	6.6 8	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16	4.3	+0.2 0	0.7
2.5	4	6.6 8.5	±0.2	4.2	+0.3 -0.2	2.3	±0.2	6	6	17.5	4.3	+0.2 0	0.8
4	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9

18

Specification of electronic wire

Power supply	МССВ	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242V Min : 198V	ΧA	X A, 30mmA 0.1 s	2.5mm ²	2.5mm ²	0.75~1.5mm ²

- Decide the capacity of ELCB(or MCCB+ELB) by below formula.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord.

(Code designation IEC:60245 IEC 57 / CENELEC:H05RN-F or IEC:60245 IEC 66 / H07RN-F)

The capacity of ELCB(or MCCB+ELB) $X[A] = 1.25 \times 1.1 \times \Delta i$

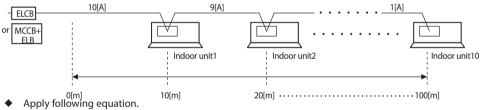
- *X: The capacity of ELCB(or MCCB+ELB).
- * Σ Ai : Sum of Rating currents of each indoor unit.
- * Refer to each installation manual about the rating current of indoor unit.
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^{n} \left(\frac{\text{Coef} \times 35.6 \times \text{Lk} \times \text{ik}}{1000 \times \text{Ak}} \right) < 10\% \text{ of input voltage[V]}$$

- * coef: 1.55
- * Lk: Distance among each indoor unit[m], Ak: Power cable specification[mm²] ik: Running current of each unit[A]

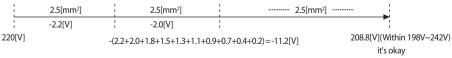
Example of Installation

- Total power cable length L = 100(m), Running current of each units 1[A]
- Total 10 indoor units were installed

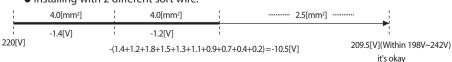


$$\sum_{k=1}^{n} \left(\frac{\text{Coef} \times 35.6 \times \text{Lk} \times \text{ik}}{1000 \times \text{Ak}} \right) < \frac{10\% \text{ of input}}{\text{voltage[V]}}$$

- Calculation
 - Installing with 1 sort wire.



• Installing with 2 different sort wire.



19

Wiring work

Rating current

Unit	Model	Rating current	Unit	Model	Rating current
AM*HNMPKH*	*036* *045* *056* *071* *090* *112* *128* *140*	0.50A 0.60A 0.70A 1.00A 1.20A 1.40A 1.50A 1.70A	АМ*НИНРКН*	*112* *128* *140*	1.20A 1.40A 1.50A



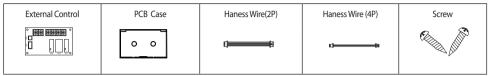
- Select the power cable in accordance with relevant local and national regulations.
- Wire size must comply with local and national code.
- For the power cable, use the grade of H07RN-F or H05RN-F materials.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker.
 An all pole disconnection from the power supply must be incorporated in the fixed wiring(≥3mm).
- · You must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.
- The circuit breaker(ELCB or MCCB+ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Use round pressure terminal for connections to the power terminal block.
- For wiring, use the designated power cable and connect it firmly, then secure to prevent outside
 pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- · Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

Tightening torque							
N∙m kgf∙cm							
M3.5	0.8~1.0	8.0~10.0					
M4	1.2~1.5	12.0~14.7					

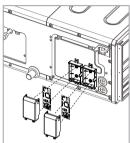
Interface module Installation (Optional)

Only for: Global Duct Type

Accessories (Interface module: MIM-B14)

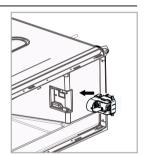


- 1. Fix the case at with bolts on the side of the control box in the indoor unit. (See the picture)
- Attach the Interface module PCB to the case in the control box of the indoor unit, then connect the power and the communication cable between the Interface module and the indoor unit:
- If you install a Interface module to an indoor unit, every outdoor unit which is connected to an indoor unit can be controlled simultaneously.
- Each indoor unit connected to the same centralized controller has its own Interface module.



Accessories (SPI module: MSD-EAN1)

Refer to the SPI module(MSD-EAN1) installation manual for the more information.



Connecting the connection cord



- Always remember to connect the refrigerant pipes before performing the electric connections.
 When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.
- Always remember to connect the air conditioner to the grounding system before performing the electric connections.

The indoor unit is powered by the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and jacket in polychloroprene(neoprene), in accordance with the requirements of standard EN 60335-2-40.

- 1. Remove the screw on the electrical component box and remove the cover plate.
- 2. Route the connection cord through the side of the indoor unit and connect the cable to terminals; refer to the figure below.
- 3. Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
- 4. Reassemble the electrical component box cover, carefully tightening the screw.

Between Indoor and Outdoor Connection cable Specifications (Common in use)

	Indoor Power supply	Communication Cable	
Power Supply	Indoor Power cable	Communication cable	
220-240V~/50Hz	±10%	2.5mm ² † ,3wires	0.75~1.25mm²,2wires

- # For connection cable, use the grade H07RN-F or H05RN-F materials.
- * Screws on terminal block must not be unscrewed with the torque less than 12 kgf-cm.
- * Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.

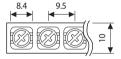


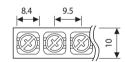
When installing the indoor unit in a computer room, use the double shielded(Tape aluminum / polyester braid + copper) cable of FROHH2R type.

Terminal Block SPEC (Indoor)

AC POWER: M4 SCREW

COMMUNICATION: M4 SCREW







In case of extending the electric wire, please DO NOT use a round-shaped pressing socket.

- Incomplete wire connections can cause electric shock or a fire.



Adjusting air flow

Automatic Air-Volume

When DPM is installed, Automatic Air-Volume function cannot be performed simultaneously for all indoor units. Automatic Air-Volume function must be performed for each indoor unit with the wired remote control attached. With its BLDC motor, you can use smart adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, Using the Automatic Air-Volume function, the volume of exhaust air has been adjusted to the rated volume flow rate automatically.

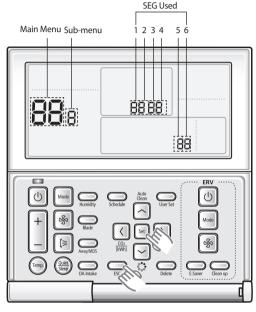
Performing the Automatic Air-Volume function.

- Check the air conditioning unit stop.

Press the Power button to stop the air conditioner

- Go to Service setting mode with remote controller.
- 1). Press the set and seconds and then a Main menu will be displayed.
- 2).Press the / button to select and then press button to enter a Sub-menu setting screen.
- 3). Press the / button to select and then press button to enter a automatic air-volume setting screen.
- 4). Press the / button to select 1 to enable automatic air-volume operation.
- 5). Select mode No. 8.2, and set to "1".
- 6). Press the / button to select 3 and then press button to enter input voltage.
- 7). Press the / button to select 1~3 to set voltage. (1:220V, 2:230V, 3:240V)
- 8). Press the set button, then the air conditioning unit will start the fan operation for Automatic Air-Volume adjustment.
- * Do not adjust the dampers during fan operation for Automatic Air-Volume adjustment.
- 9). Press \bigoplus_{FSC} button to escape setting mode.
- 10). After 1 to 8 minutes, the air conditioning unit stops operating automatically when Automatic Air-Volume adjustment has been carried out (fan operation icon will be off.)
- 11). When the air conditioning unit has stopped, check the Mode No. 8.1 is "1" for completion of Automatic Air-Volume. If the Mode No. 8.1 is "0", Automatic Air-Volume adjustment is fail. Then adjust the fan speed by referring the E. S. P(External Static Pressure) setting table.

tatic riessure) setting table.							
Main menu	Sub menu	Functions	SEG used	Default	Range		
	1	Automatic Air-Volume State Return	1	0	0 - OFF (Fail or Disable) 1 - Completion. 2 - Running Automatic Air-Volume.		
8	2	Automatic Air-Volume Operation	1	0	0 - Disable 1 - Enable		
	3	Automatic Air-Volume Voltage Setting	1	2	1- 220V 2- 230V (Default) 3- 240V		



Adjusting air flow



- If the coil is not dry, run the unit for 2 hours with fan only to dry the coil.
- The air filter is properly attached into the air passage on the air suction side of the air conditioning unit.
 - Adjust the dampers so that each air inlet and outlet exhusts the designed airflow rate.
 - If using booster fans(an outdoor air processing unit or ERV via duct), do not use Automatic Air-Volume function.
 - If the duct configurations have been changed, automatic air-volume function perform again.
 - The product can be used within the range of rated voltage 220 V/230 V/240 V \pm 5 V. If the product needs to be installed in the condition that is out of the rated voltage stated above, additional setting with installation option is required.

E. S. P(External Static Pressure) setting for phase control motor

With its phase control motor, you can adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, adjust the fan speed by referring the following table.

Model	AM036HNMPKH
Static Pressure(mmAq)	Option code for indoor unit
0≤ SP ≤2.5	010054-1C5081-202424-331205
2.5< SP ≤5	010054-1C50E3-202424-331205
5< SP ≤7.5	010054-1C5459-202424-331205
7.5< SP ≤10	010054-1C54CD-202424-331205
10< SP ≤12.5	010054-1C5931-202424-331205
12.5< SP ≤15	010054-1C5983-202424-331205

Model	AM045HNMPKH	AM056HNMPKH	AM071HNMPKH			
Static Pressure(mmAq)		Option code for indoor unit				
0< SP <3	010054-1C50D1-	010054-1C50F1-	010054-1C548D-			
0≥ 3€ 53	202D2D-331204	203838-331203	204747-331201			
3< SP ≤6	010054-1C5453-	010054-1C5447-	010054-1C55E1-			
3< 3₹ ≤0	202D2D-331204	203838-331203	204747-331201			
C . CD . O	010054-1C54C7-	010054-1C54AB-	010054-1C5935-			
6< SP ≤9	202D2D-331204	203838-331203	204747-331201			
9< SP <12	010054-1C583B-	010054-1C581F-	010054-1C5989-			
9< 5₽ ≤ 12	202D2D-331204	203838-331203	204747-331201			
12< SP <15	010054-1C58AF-	010054-1C5973-	010054-1C59DF-			
12< 37 ≤ 15	202D2D-331204	203838-331203	204747-331201			

Model	AM090HNMPKH
Static Pressure(mmAq)	Option code for indoor unit
0≤SP≤4	010054-1C546D-205A5A-331212
4 <sp≤8< td=""><td>010054-1C55E3-205A5A-331212</td></sp≤8<>	010054-1C55E3-205A5A-331212
8 <sp≤12< td=""><td>010054-1C5969-205A5A-331212</td></sp≤12<>	010054-1C5969-205A5A-331212
12 <sp≤15< td=""><td>010054-1C59CD-205A5A-331212</td></sp≤15<>	010054-1C59CD-205A5A-331212

Model	AM112HNMPKH	AM128HNMPKH	AM140HNMPKH			
Static Pressure(mmAq)		Option code for indoor unit				
0 < CD < E 2	010054-1C5412-	010054-1C5426-	010054-1C5444-			
0≤ SP ≤5.2	207070-331223	208080-331222	208C8C-331221			
5.2< SP <8	010054-1C5466-	010054-1C5478-	010054-1C5498-			
3.2< 3₹ ≤0	207070-331223	208080-331222	208C8C-331221			
8< SP <12	010054-1C54EA-	010054-1C54EE-	010054-1C54FA-			
0< 3P ≤ 12	207070-331223	208080-331222	208C8C-331221			
12< SP < 15	010054-1C583E-	010054-1C5920-	010054-1C583E-			
12< 32 ≤ 13	207070-331223	208080-331222	208C8C-331221			

Model	AM112HNHPKH	AM128HNHPKH	AM140HNHPKH		
Static Pressure(mmAq)	Option code for indoor unit				
3 <sp<6.2< td=""><td>010054-1C5446-</td><td>010054-1C5466-</td><td>010054-1C5486-</td></sp<6.2<>	010054-1C5446-	010054-1C5466-	010054-1C5486-		
3≤3₹≤0.2	207070-331226	208080-331225	208C8C-331224		
6.2 <sp<9< td=""><td>010054-1C54A7-</td><td>010054-1C54B9-</td><td>010054-1C54D7-</td></sp<9<>	010054-1C54A7-	010054-1C54B9-	010054-1C54D7-		
0.2<3P≤9	207070-331226	208080-331225	208C8C-331224		
9 <sp<11< td=""><td>010054-1C54C9-</td><td>010054-1C54EC-</td><td>010054-1C5809-</td></sp<11<>	010054-1C54C9-	010054-1C54EC-	010054-1C5809-		
9<35≥11	207070-331226	208080-331225	208C8C-331224		
11 <sp<13< td=""><td>010054-1C580B-</td><td>010054-1C581E-</td><td>010054-1C583B-</td></sp<13<>	010054-1C580B-	010054-1C581E-	010054-1C583B-		
11<35<13	207070-331226	208080-331225	208C8C-331224		
13 <sp<15< td=""><td>010054-1C584D-</td><td>010054-1C5940-</td><td>010054-1C586D-</td></sp<15<>	010054-1C584D-	010054-1C5940-	010054-1C586D-		
13<312	207070-331226	208080-331225	208C8C-331224		
15 <sp<17< td=""><td>010054-1C587F-</td><td>010054-1C5982-</td><td>010054-1C588F-</td></sp<17<>	010054-1C587F-	010054-1C5982-	010054-1C588F-		
13<31>17	207070-331226	208080-331225	208C8C-331224		
17 <sp<19< td=""><td>010054-1C59A1-</td><td>010054-1C59B3-</td><td>010054-1C59C0-</td></sp<19<>	010054-1C59A1-	010054-1C59B3-	010054-1C59C0-		
1/<35519	207070-331226	208080-331225	208C8C-331224		
19 <sp≤20< td=""><td>010054-1C59B2-</td><td>010054-1C59C4-</td><td>010054-1C59D1-</td></sp≤20<>	010054-1C59B2-	010054-1C59C4-	010054-1C59D1-		
13<3P\$20	207070-331226	208080-331225	208C8C-331224		



- represents E. S. P(External Static Pressure) range of factory setting.
 You don't have to adjust the fan speed separately if the external static pressure of the installation place is in
 . When it is out of ______, input the appropriate option code.
- If you input the inappropriate option code, error may occur or the air conditioner is out of order. The option code must be inputted correctly by the installation specialist or service agent.

Easy Tuning

EASY Tuning

If the more cooling and heating airflow rate which set up when installing is wanted, or if the more Silent operation which sets up when installing is wanted, air conditioner is tuned for comfort.

Indoor unit airflow rate for high, mid, low mode increases or decreases for $+2 \sim -2$ Steps with wired remocon.



1. Press the User Set button.

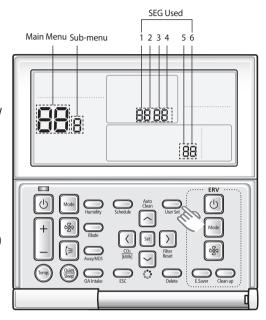
► (Main Menu) will be displayed, and you can press the [Λ]/
[V] buttons to select No. 8, which will set the Easy Tuning.



2. Press the [>] button to select airflow step.

▶ Press the [A]/[V] buttons to select airflow step(-2,-1,0,1,2) tuning (During the Easy Tuning setting, AC Fan Speed icon will be displayed)





3) Press the Set button to complete the Easy Tuning.

(When the Easy Tuning setting complete, AC Fan Speed icon will be off)

4) Press the Street button to to exit to normal mode.

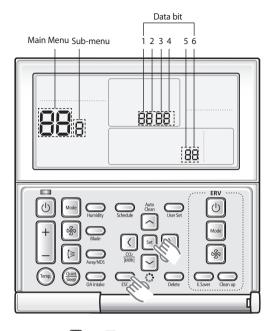
Main menu	Sub menu	Functions	SEG used	Default	Range
8	-	Easy Tuning	1,2	0	-2:-2 Step -1:-1 Step 0:No Use 1:+1 Step 2:+2 Step

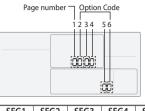


- Press the 🔛 button anytime during setup to exit without setting.
- According to airflow changed from the Easy Tuning, Air conditioning performance reducing is possible.

Setting the indoor unit option code

In order to set the indoor unit option code use the wired remote controller and follow the directions below.





SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	*	*	*	*	*

Page number

SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	*	*	*	*	*

Page number

SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	*	*	*	*	*

Page number

	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
I	3	*	*	*	*	*

Page number

- 1) Press the 🗐 and 💬 buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
- 2) Press the 4/ button to select and then press button to enter a Sub-menu setting screen.
- 3) Press the 3/9 button to select and then press button to enter a Indoor unit option code setting screen.
 - The first digit represents the page number and the remaining five digits are option codes.
 - The option code which is currently setting will flicker.
- 4) Press the 🖪 / 🗹 button to set the option code in order. Press 🕥 button to go to the next page.
- 5) Press the set button to save and complete the option setting.
- 6) Press the putton to exit to normal mode.
- Press the so button anytime during setup to exit without setting.



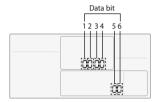
- Option code will not be applied if you don't press the [set]
- Setting indoor unit option code is only possible in Master wired remote controller.
 You can only check the indoor unit option code in Slave wired remote controller.
- Setting indoor unit option code is possible when one indoor unit is connected. If more than 2 indoor units are connected, you can only check the Master indoor unit option code.

Setting an indoor unit address and installation option

Set the indoor unit address and installation option with remote controller option. Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

Setting an indoor unit address

- 1) Press the stand buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
- 2) Press the 4/ button to select and then press button to enter a Sub-menu setting screen.
- 3) Press the 1/ button to select and then press button to enter a Indoor Address setting screen.





- · The Main/RMC Address which is currently setting will flicker.
- Data bit 1 and 2 present Indoor unit main address checking
 - Data bit 3 and 4 present Indoor unit main address setting(outdoor unit reset is needed to set).
 - Data bit 5 and 6 present Indoor unit RMC address setting/checking.
- 4) Press the 1/ button to set the Indoor unit Main/RMC Address.
- 5) Press the set button to save and complete the option setting.
- 6) Press the putton to exit to normal mode.



- Press the putton anytime during setup to exit without setting.
- Address will not be applied if you don't press Set button.
- Setting Main/RMC Address of an Indoor unit is available only with a master wired remote controller.

Setting an indoor unit installation option

In order to check and set the indoor unit installation option code use the wired remote controller and follow the directions below.

- 1) Press the same time for more than 3 seconds and then a Main menu will be displayed.
- 2) Press the 1/ button to select 1 and then press 1 button to enter a Sub-menu setting screen.
- 3) Press the A button to select and then press button to enter a Indoor unit installation option code setting screen.



- The first digit represents the page number and the remaining five digits are installation option.
- The total option codes are 24 digits. You can set six digits at a time and it is distinguished by page number (0, 1, 2, 3).

4) Press the _/ button to set the installation option code in order. Press D button to go to the next page.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	External room temperature sensor / Minimizing fan operation when thermostat is off	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater		EEV Step when heating stops	
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output / External heater On or Off signal	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation / Removing condensated water in heating mode	EEV Step of stopped unit during oil return/ defrost mode	Motion detect sensor	

Option No.: 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEC	i1	SI	EG2		SEG3		SEG4			SEG5	SEG6	
Explanation	PAC	SE .	MODE		Use of robot cleaning		Use of external room temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		FAN RPM compensation	
								Details					
Indication	Indication	Details	Indication	Details	Indication	Details	Indication	Use of External room temperature sensor	Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details
and Details							0	Disuse	Disuse			0	Disuse
	0	0 2		0	Disuse	1	Use	Disuse	0	Disuse	1	RPM compensation	
					1	Use	2	Disuse	Use (*1)	1	Use	2	High ceiling
					'		3	Use	Use (*1)		use	2	KIT
Option	SEC	7	SI	EG8		SEG9	SEG10			SEG11		SEG12	
Explanation	PAC	SE .	Use of d	rain pump	U	se of hot water heater				EEV Step	when heating stops		
	Indication	Details	Indication	Details	Indication	Details	Indication	De	etails	Indication	Details	Indication	Details
			0	Disuse	0	Disuse				0	Default value		
1. 15. 25			1	Use	1	Use (*2)							
Indication and Details	1	1 When an 2		-									
and Details	1		1 vvven an indoor unit		3	Use (*²)				1	Noise decreasing setting		

Setting an indoor unit address and installation option

Option	SEG	13	SI	EG14		SEG15			SEG16		SEG17		SEG18						
Explanation	PAG	iΕ	Use of ext	ernal control	Setting the	e output of external or heater On/Off sign			S-Plasma ion	Ві	ızzer control	Hours	of filter usage						
	Indication	Indication Details		Indication Details		Indication Details		Indication Details		Details	Indication	Detai Setting the output of external control	External heater On/Off signal	Indication	Details	Indication	Details	Indication	Details
			0	Disuse	0	Thermo on	Un/Un signal	0	Disuse	0	Use buzzer	2	1000 Hour						
Indication and Details	1		1	ON/OFF control	1	Operation on	-	•	District	1	Disuse buzzer		100011001						
	2		2	OFF control	2	-	Use (*3)	1	Use			6	2000 Hour						
			3	Window ON/ OFF control	3	-	Use (*3)												
Option	SEG	19	SI	EG20		SEG21			SEG22		SEG23		SEG24						
Explanation	PAG	SE .		l control of a controller		setting compensation lensated water in hear		EEV Step of	f stopped unit during oil return/ defrost mode	Motio	n detect sensor	-							
						Detai	ls	Indication											
	Indication	Details	Indication	Details	Indication	Heating Setting Compensation	Removing Condensated Water in Heating Mode		Details	Indication Details									
										0	Disuse								
			0 or 1	channel 1	0	Default (*4)	Disuse	0	Default value	1	Turn out in 30min. without motion								
				channel 2	1	2 ℃ (3.6 ℉)	Disuse			2	Turn out in 60min. without motion								
			3	channel 3	2	5 °C (9 °F)	Disuse			3	Turn out in 120min. without motion								
Indication and Details					3	Default (*4)	Use (*5)			4	Turn out in 180min. without motion								
	3				4	2 °C (3.6 °F)	Use (*5)	1	Oil return or Noise decreasing in	5	Turn out in 30min. without motion or *advanced function								
			4	channel 4				'	defrost mode	6	Turn out in 60min. without motion or *advanced function								
					5	5 °C (9 °F)	Use (*5)			7	Turn out in 120min. without motion or *advanced function								
										8	Turn out in 180min. without motion or *advanced function								

- 5) Press the Set button to save and complete the option setting.
- 6) Press the button to exit to normal mode.

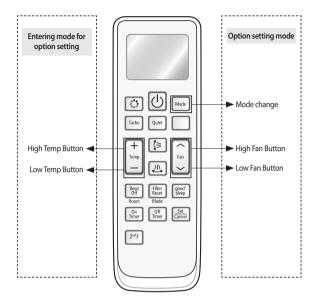


- Press so button anytime during setup to exit without setting.
- Option code will not be applied if you don't press [set] button.
- Setting Installation option code is available only with a master wired remote controller.
- Setting Installation option code is available when there is one on one connection between a wired remote controller and an indoor unit.

Set the indoor unit address and installation option with remote controller option.

Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

The procedure of option setting



Step 1. Entering mode to set option

- 1. Remove batteries from the remote controller.
- 2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.





Check if you have entered the option setting status.

Step 2. The procedure of option setting

After entering the option setting status, select the option as listed below.



- · Option setting is available from SEG1 to SEG 24
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	Х	Χ	Χ	Х	Χ	1	Х	Х	Χ	Х	Χ
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	Х	Χ	Χ	Х	Χ	3	Х	Χ	Χ	Χ	Χ

On(SEG1~12)	Off(SEG13~24)
Auto	Auto

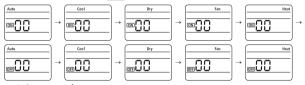
Setting an indoor unit address and installation option

Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(\vee) to enter SEG2 value. Press High Fan button(\wedge) to enter SEG3 value. Each time you press the button, $\bigcirc - \bigcirc - \cdots \bigcirc - \bigcirc$ will be selected in rotation.	SEG2 Auto GROUD SEG3
2. Setting Cool mode Mode Press Mode button to be changed to Cool mode in the ON status.	Cost Cost
3. Setting SEG4, SEG5 option Press Low Fan button(\lor) to enter SEG4 value. Press High Fan button(\land) to enter SEG5 value. Each time you press the button, $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ will be selected in rotation.	Cool SEG4 Cool SEG5
4. Setting Dry mode Mode Press Mode button to be changed to DRY mode in the ON status.	
5. Setting SEG6, SEG8 option Press Low Fan button(∨) to enter SEG6 value. Press High Fan button(∧) to enter SEG8 value. Each time you press the button, □ → □ → ···· □ → □ will be selected in rotation.	SEG6 SEG8
6. Setting Fan mode Mode Press Mode button to be changed to FAN mode in the ON status.	Fan
7. Setting SEG9, SEG10 option Press Low Fan button(\lor) to enter SEG9 value. Press High Fan button(\land) to enter SEG10 value. Each time you press the button, $\bigcirc - \bigcirc - \bigcirc - \bigcirc$ will be selected in rotation.	SEG9 SEG10
8. Setting Heat mode Mode Press Mode button to be changed to HEAT mode in the ON status.	Heat GDD CO
9. Setting SEG11, SEG12 option Press Low Fan button(∨) to enter SEG11 value. Press High Fan button(∧) to enter SEG12 value. Each time you press the button, ⊕ → ⊕ → ⊕ will be selected in rotation.	SEG11 SEG12
10. Setting Auto mode Mode Press Mode button to be changed to AUTO mode in the OFF status.	Auto
11. Setting SEG14, SEG15 option Press Low Fan button(\lor) to enter SEG14 value. Press High Fan button(\land) to enter SEG15 value. Each time you press the button, $\exists \rightarrow \exists \rightarrow \cdots \exists \rightarrow \exists$ will be selected in rotation.	SEG14 Auto SEG15

Option setting	Status
12. Setting Cool mode Mode Press Mode button to be change to Cool mode in the OFF status.	Cool Correction of the Correct
13. Setting SEG16, SEG17 option Press Low Fan button(\lor) to enter SEG16 value. Press High Fan button(\land) to enter SEG17 value. Each time you press the button, $\Box \to \Box \to \Box$ will be selected in rotation.	SEG16 SEG17
14. Setting Dry mode Mode Press Mode button to be change to Dry mode in the OFF status.	©TD O
15. Setting SEG18, SEG20 option Press Low Fan button(\lor) to enter SEG18 value. Press High Fan button(\land) to enter SEG20 value. Each time you press the button, $ \Box \to \Box \to \Box $ will be selected in rotation.	SEG18 SEG20
16. Setting Fan mode Mode Press Mode button to be change to Fan mode in the OFF status.	Fan
17. Setting SEG21, SEG22 option Press Low Fan button(\lor) to enter SEG21 value. Press High Fan button(\land) to enter SEG22 value. Each time you press the button, $\Box \to \Box \to \cdots \Box \to \Box$ will be selected in rotation.	SEG21 SEG22
18. Setting Heat mode Mode Press Mode button to be change to HEAT mode in the OFF status.	Heat
19. Setting SEG23, SEG24 mode Press Low Fan button(\lor) to enter SEG23 value. Press High Fan button(\land) to enter SEG24 value. Each time you press the button, $\Box \to \Box \to \Box$ will be selected in rotation.	SEG23 SEG24

Step 3. Check the option you have set

After setting option, press button to check whether the option code you input is correct or not.



Step 4. Input option

Press operation button with the direction of remote control for set. For the correct option setting, you must input the option twice.

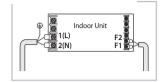
Step 5. Check operation

- 1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
- 2. Take the batteries out of the remote controller and insert them again and then press the operation button.

Setting an indoor unit address and installation option

Setting an indoor unit address (MAIN/RMC)

- 1. Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.



- 2. The panel(display) should be connected to an indoor unit to receive option.
- **3.** Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
- 4. Assign an indoor unit address by wireless remote controller.
 - The initial setting status of indoor unit ADDRESS(MAIN/RMC) is "0A0000-100000-200000-300000".

Option No.: 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG	1	SEG	2	SE	G3	SEG	G4	SEG	i5	SEG6		
Explanation	PAG	E	Mod	Mode		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display			Auto		Auto		Cool		Cool		Dry ON P		
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
Indication					0	No Main address							
and Details	0		А		1	Main address setting mode	0~9	100-digit	0~9	10-digit	0~9	A unit digit	
Option	SEG	7	SEG	8	SE	G9	SEG	510	SEG11		SEG	12	
Explanation	PAG	E			Setting RA	1C address			Group cha	nnel(*16)	Group address		
Remote Controller Display						Fan				Heat	<u> </u>	Heat	
	Indication	Details	_		Indication	Details	_	_	Indication	Details	Indication	Details	
Indication					0 No RMC address								
and Details	1				1	RMC address setting mode			RMC1	0~F	RMC2	0~F	



- When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG5~6.
 - If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.
 - You cannot set SEG11 and SEG12 as F value at the same time.

Setting an indoor unit installation option (suitable for the condition of each installation location)

- 1. Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- The panel (display) should be connected to an indoor unit to receive ontion
- Indoor Unit E 2 2(N) F1
- **3.** Set the installation option according to the installation condition of an air conditioner.
 - The default setting of an indoor unit installation option is "020010-100000- 200000-300000".
 - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- 4. Set the indoor unit option by wireless remote controller.

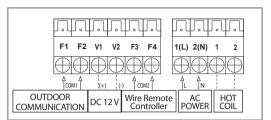
■ 02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	External room temperature sensor / Minimizing fan operation when thermostat is off	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	-	EEV Step when heating stops	
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output / External heater On or Off signal	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation / Removing condensated water in heating mode	EEV Step of stopped unit during oil return/ defrost mode	Motion detect sensor	

- ◆ 1WAY/2WAY/4WAY MODEL: Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- ◆ 1 WAY/2WAY/4WAY,DUCT MODEL: Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to exept for 2 or 6.
- ♦ When setting the option other than above SEG values, the option will be set as "0".
- SEG5 central control option is basically set as 1 (Use), so you don't need to set the central control
 option additionally.
 - However, if the central control is not connected but it doesn't indicate an error message, you need to set the central control option as 0 (Disuse) to exclude the indoor unit from the central control.

Setting an indoor unit address and installation option

• The output of hot water heater in SEG9 is generated from the hot coil part of the terminal board in duct models.



* The output of hot coil terminal is AC 220 V / 230 V (The same as Indoor Unit's input Power)

- ♦ The external output of SEG15 is generated by MIM-B14 connection. (Refer to the manual of MIM-B14.)
- 02 series installation option(Detailed)

Option No.: 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG	1		SEG2	SEC	53		SEG4		SE	:G5	S	EG6
Explanation	PAG	E	ı	MODE	Use of robot cleaning		Use of external room temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		FAN RPM compensation	
Remote Controller Display	Auto COND 2		Auto		Cool			Cool		Dry Dry			
Indication	Indication	Details	Indication	Details	Indication	Details	Indication	Use of External room temperature sensor	Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details
and Details							0	Disuse	Disuse			0	Disuse
	0	0 2		0	Disuse	1	Use	Disuse	0	Disuse	1	RPM compensation	
					1	Use	2	Disuse Use	Use (*1) Use (*1)	1	Use	2	High ceiling KIT
Option	SEG	7		SEG8	SEG9 SEG10		SEG11		SE	G12			
Explanation	PAG	E	Use of	drain pump	Use of hot water heater						hen heating ops		
Remote Controller Display				B Dry	88	Fan					Heat		
	Indication	Details	Indication	Details	Indication	Details	Indication	[Details	Indication	Details	Indication	Details
			0	Disuse	0	Disuse				0	Default value		
			1	Use	1	Use (*2)							
Indication and Details	1				2					Noise			
and Details	1		2	When an indoor unit stops, drain pump will operate for 3min	3	Use (*2)				1	decreasing setting		

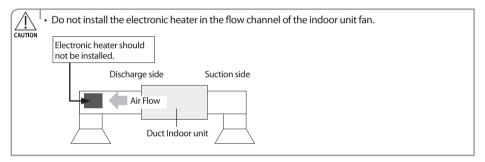
Option	SEG1	3	SEC	614		SEG15		SE	G16	SEG17		SEG18								
Explanation	PAG	E	Use of exte	rnal control		e output of ex nal heater On/	ternal control / 'Off signal	S-Plas	ma ion		Buzzer control	Hours of	filter usage							
Remote Controller Display			Auto	Auto		Auto OFF 8		Cool					Dry							
	Indication	Details	Indication	Details	Indication	Setting the output of external control	External heater On/Off signal	Indication	Details	Indication	Details	Indication	Details							
Indication			0	Disuse	0	Thermo on	-	0	Disuse	0	Use buzzer	2	1000 Hour							
and Details			1	ON/OFF control	1	Operation on	-			1	Disuse buzzer									
	2		2	OFF control	2	-	Use (*3)	1	Use	Use		6	2000 Hour							
			3	Window ON/OFF control	3	-	Use (*3)						200011041							
Option	SEG1	9	SEC	520		SEG21			G22	SEG23		SEG23		SEG23 SEG24						
Explanation	PAG	E	Individual or remote o			tting compensat sated water in h		unit durin	of stopped g oil return/ st mode	Motion detect sensor		Motion detect sensor		Motion detect sensor		Motion detect sensor		Motion detect sensor -		-
Remote Controller Display			OFF E	}		Far			Fan	Heat OFF										
						De	etails													
	Indication	Details	Indication	Details	Indication	Heating Setting Compensation	Removing Condensated Water in Heating Mode	Indication	Details	Indication	Details									
									Default	0	Disuse									
			0 or 1	channel 1	0	Default (*4)	Disuse	0	value	1	Turn out in 30min. without motion									
			2	channel 2	1	2℃	Disuse			2	Turn out in 60min. without motion									
Indication			3	channel 3	2	5℃	Disuse			3	Turn out in 120min. without motion									
and Details					3	Default (*4)	Use (*5)			4	Turn out in 180min. without motion									
	3				4	2℃	Use (*5)	1	Oil return or Noise decreasing	5	Turn out in 30min. without motion or *advanced function									
			4	channel 4					in defrost mode	6	Turn out in 60min. without motion or *advanced function									
					5	5℃	Use (*5)				7	Turn out in 120min. without motion or *advanced function								
										8	Turn out in 180min. without motion or *advanced function									

Setting an indoor unit address and installation option

- * Advanced function: Controlling cooling/heating current or power saving with motion detect.
- (*1) Minimizing fan operation when thermostat is off
 - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
- (*2) 1: Fan is turned on continually when the hot water heater is turned on,
 - 3: Fan is turned off when the hot water heater is turned on with cooling only indoor unit

 Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.
- (*3) When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.
 - 2: Fan is turned on continually when the external heater is turned on,
 - 3: Fan is turned off when the external heater is turned on with cooling only indoor unit

 Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.
- If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote
 controller sensor to detect indoor temperature exactly.
- (*4) Default setting value
 - 4Way Cassette, Mini 4Way Cassette: 5 °C
 - Other indoor units: 2 °C
- (*5) This function can be applied to 4 Way Cassette and Mini 4 Way Cassette only. If the air conditioner operates the heating mode immediately after finishing the cooling mode, the condensated water in the drain pan becomes water vapor by the heat of the indoor unit heat exchanger. Since the water vapor might be condensed on the indoor unit, which may fall into a living space, use this function to get rid of the water vapor out of the indoor unit by operating the fan (for maximum 20 minutes) even when the indoor unit is turned off after cooling mode is turned to heating mode.



■ 05 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	5	Use of Auto Change Over for HR only in Auto mode	(When setting SEG3) Standard heating temp. Offset	(When setting SEG3) Standard cooling temp. Offset	(When setting SEG3) Standard for mode change Heating → Cooling
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	(When setting SEG3) Standard for mode change Cooling → Heating	(When setting SEG3) Time required for mode change	Compensation option for Long pipe or height difference between indoor units	-	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	-	-	-	-	Control variables when using hot water / external heater
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	-	-	-	-	-

■ 05 series installation option(Detailed)

Option No.: 05XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1	SI	G2	SEC		2	SEG4	SE	:G5	SE	:G6	
Explanation	PAGE	М	ODE	Over for H	Use of Auto Change Over for HR only in Auto mode		(When setting SEG3) Standard heating temp. Offset		(When setting SEG3) Standard cooling temp. Offset		(When setting SEG3) Standard for mode change Heating — Cooling	
Remote Controller Display		Auto		GOND B		Cool		Cool			Dry ON B	
	Indication Deta	ls Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
				0	Follow product option	0	0℃	0	0°C	0	1℃	
Indication						1	0.5°C	1	0.5℃	1	1.5℃	
and Details	0		5			2	1℃	2	1℃	2	2℃	
and Details	0		J		Use Auto Change Over for HR only	3	1.5℃	3	1.5℃	3	2.5℃	
				1		4	2℃	4	2℃	4	3℃	
						5	2.5°C	5	2.5℃	5	3.5℃	
						6	3℃	6	3℃	6	4°C	
			7		3.5℃	7	3.5℃	7	4.5℃			
Option	SEG7	SE	G8	SEG9		SEG10		SE	G11	SE	G12	
Explanation	PAGE	Standard	tting SEG3) I for mode I Cooling → g mode	(When setting SEG3) Time required for mode change		for Long p	sation option pipe or height ace between por units					
Remote Controller Display			B	88	Fan		Fan					
	Indication Deta	ls Indication	Details	Indication	Details	Indication	Details					
		0	1℃	0	5 min.	0	Use default value					
		1 1.5°C 1		1	7 min.	1) Height						
		2	2℃	2	9 min.		difference ¹⁾					
Indication and Details	1	3	2.5℃	3	11 min.	1	is more than 30m or 2) Distance ²⁾ is longer than 110m					
		4	3℃	4	13 min.		1) Height					
		5	3.5℃	5	15 min.]	difference ¹⁾ is					
		6	4℃	6	20 min.	2	15~30mor					
		7	4.5℃	7	30 min.		2) Distance ²⁾ is 50~110m					
		,	7.5 C		30 111111.		30 110111					

Setting an indoor unit address and installation option

Option	SEG13	SEG14	SI	G15	SEG16	SE	G17	SEG18 ⁽¹³⁾				
Explanation								Control variables when using hot water / external heater				
Remote Controller Display												
								Indication	Details			
								indication	Set temp. for heater On/Off	Delay time for heater On		
								0	At the same time as thermo on	No delay		
								1	At the same time as thermo on	10 minutes		
								2	At the same time as thermo on	20 minutes		
								3	1.5 ℃	No delay		
								4	1.5 ℃	10 minutes		
1 11 41								5	1.5 ℃	20 minutes		
Indication and Details								6	3.0 ℃	No delay		
una Details	2							7	3.0 ℃	10 minutes		
								8	3.0 ℃	20 minutes		
								9	4.5 ℃	No delay		
								A	4.5 ℃	10 minutes		
								В	4.5 ℃	20 minutes		
								С	6.0 ℃	No delay		
								D	6.0℃	10 minutes		
								E	6.0℃	20 minutes		

^(*1) Height difference: The difference of the height between the corresponding indoor uint and the indoor unit installed at the lowest place. For example, When the indoor unit is installed 40m higher than the indoor unit installed at the lowest place, select the option "1".

(*2) Distance: The difference between the pipe length of the indoor unit istalled at farthest place from an outdoor unit and the pipe length of the corresponding indoor unit from an outdoor unit.

For example, when the farthest pipe length is 100 m(328 ft) and the corresponding indoor unit is 40 m away from an outdoor unit, select the option "2".

(100 - 40 = 60m)

- (*3) Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater
 - e.g. 1) Setting 02 series SEG9 ="1"/ Setting 05 series SEG18 ="0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.
 - e.g. 2) Setting 02 series SEG15 = "2" / Setting 05 series SEG18 = "A":

Room temp. \leq set temp. + f(heating compensation temp.)

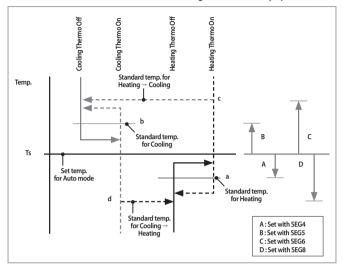
- External heater is turned on when the temperature is maintained as 4.5 °C for 10 minutes.

 $Room\ temp. > set\ temp. + f(heating\ compensation\ temp.)$

- External heater is turned off when the temperature is maintained as 4.5 °C + 1 °C (1 °C is the Hysteresis for On/Off selection.)

SEG 3, 4, 5, 6, 8, 9 additional information

When the SEG 3 is set as "1" and follow Auto Change Over for HR only operation, it will operate as follows.



Cooling/Heating mode can be changed when Thermo Off status is maintained during the time with SEG9.

Setting an indoor unit address and installation option

Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6					
Explanation	PAGE		PAGE		PAGE		M()I)⊢ I		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		Changed value	
Remote Controller Display			Auto OD B		Cool		Cool		ON B							
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details				
Indication and Details	0		D		Option mode	1~6	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F				



- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'. Ex) When setting the 'buzzer control' into disuse status.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	Changed value
Indication	0	D	2	1	7	1



If you are using heat pump model, mixed operation mode (two or more indoor units operating
in different operation mode simultaneously) is not available when the indoor units are
connected to same outdoor unit. If you set the master indoor unit with a remote controller,
outdoor unit will operate in the mode which was set in the master indoor unit.

Setting temperature control of discharge air

- 1) Use of "Temperature control of discharge air" or target temperature of discharge air in cooling/heating can be set with the service mode of a wired remote controller. (Refer to the installation manual of a wired remote controller.)
- 2) When using temperature control of discharge air, thermo on/off of Indoor unit is decided by set room temperature and room temperature, and the temperature of discharge air is adjusted to meet the target temperature of discharge air in thermostat On section.
- 3) When using temperature control of discharge air, the temperature of discharge air cannot always be adjusted to the target temperature due to external conditions or protective control of the outdoor unit.
- * Temperature control of discharge air can be set with DMS as well.

Final check and trial operation

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the following:

- · Strength of the installation site
- · Tightness of pipe connection to detect gas leak
- · Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- · Grounding conductor connection
- Correct operation (follow the steps below)

Providing information for user

After finishing the installation of the air conditioner, you should explain the following to the user. Refer to appropriate pages in the user & installation manual.

- 1) How to start and stop the air conditioner
- 2) How to select the modes and functions
- 3) How to adjust the temperature and fan speed
- 4) How to adjust the airflow direction
- 5) How to set the timers
- 6) How to clean and replace the filters



 When you complete the installation successfully, hand over the user & installation manual to the user for storage in a handy and safe place.

Troubleshooting

- If an error occurs during the operation, one or more LED flickers and the operation is stopped except the LED.
- ♦ If you re-operate the air conditioner, it operates normally at first, then detect an error again.

LED Display on the receiver & display unit

			ndicator	<u>S</u>			
	Concea	led Type					
	(D					
Abnormal conditions	Green	Red	(I)	Se de la companya de		<u>Remarks</u>	
	Standa	Standard Type					
	(1)	*					
Power reset	•	Х	Х	Х	Х		
Error of Room sensor in the indoor unit(Open/Short)	Х	Х	•	Х	Х		
Error of EVA-IN,EVA-OUT discharge sensor in the indoor unit(Open/Short)	•	Х	•	Х	Х		
Error of Fan motor in the indoor unit	Х	Х	Х	•	Х		
Error of Outdoor or Terminal Block Thermal Fuse(Open)	Х	Х	•	•	•		
Clogging of outdoor's service valve	•	X	Х	•	•		
Detection of the float switch	×	×	Х	•			
Error of EEPROM or OPTION SETTING	•		•		•		
1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minutes error						Indoor unit error (Display is unrelated with operation)	
4. When sending the communication error from the outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking. (Communication error for more than 2 minutes)	X	X			X	Outdoor unit error (Display is unrelated with operation)	

• If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

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Wired remote controller

◆ If an error occurs, is displayed on the wired remote controller. If you would like to see an error code, press the Test button.

Display	Explanation	Remark
888	Communication Error between indoor and outdoor unit	
888	Error of Room sensor in the indoor unit(Open/Short)	
888	Error of Eva In sensor in the indoor unit(Open/Short)	
888	Error of Eva Out sensor in the indoor init(Open/Short)	
858	2nd Detection of the float switch	
888	Error of Fan motor in the indoor unit	
888	EEPROM error	
888	EEPROM option setting error	
888	Error of Terminal Block's Thermal Fuse(Open)	
888	No communication for 2minutes betwwen indoor units(Communication error for more than 2minutes)	
888	Clogging of outdoor's service valve	
<i>998</i>	Option code miss matching among the indoors (only for DPM)	Check indoor option code
888	Error of communication down between the indoor unit and wired remote controller after 3minutes.	
888	Error of communication down between the indoor unit and wired remote controller after completion of 10 times tracking.	Wired remote controller
888	COM1/COM2 Cross-installed error	error
888	Error of master wired remote controller and slave wired remote controller setting	

How to connect your extended power cables

1. Prepare a compressor and the following tools.

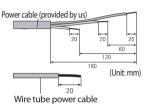
Tools	Crimping pliers	Connection sleeve (mm)	Insulation tape	Contraction tube (mm)
Spec	MH-14	20xØ6.5(HxOD)	Width 19mm	70xØ8.0(LxOD)
Shape				

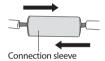
- 2. As shown in the figure, peel off the shields from the rubber or wire of the power cable.
 - Peel off 20 mm of the wire shields of the tube installed already.

 \triangle

- After peeling off the tube wire, you must insert a contraction tube.
- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- Insert both sides of core wire of the power cable into the connection sleeve.
- Method 1

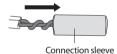
Push the core wire into the sleeve from both sides.





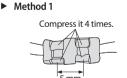
► Method 2

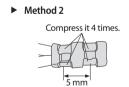
Twist the wire cores together and push it into the sleeve.



- 4. Using a compressor, compress the two points and flip it over and compress another two points in the same location.
 - The compression dimension should be 8.0.
 - After compressing it, pull both sides of the wire to make sure it is firmly pressed.







5. Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

A total of three or more layers of insulation is required.

Method 1





6. Apply heat to the contraction tube to contract it.



7. After tube contraction work is completed, wrap it with the insulation tape to finish.



- Make sure that the connection parts are not exposed to outside.
- Be sure to use insulation tape and a contraction tube made of approved reinforced insulating materials that have the same level of withstand voltage with the power cable. (Comply with the local regulations on extensions.)





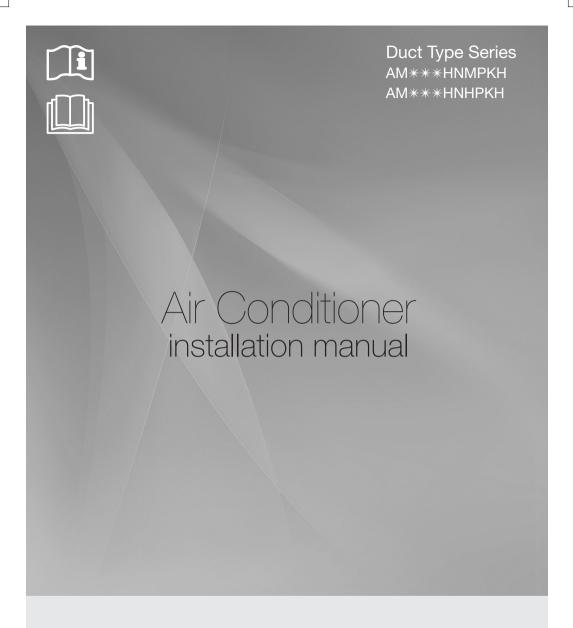
• In case of extending the electric wire, please DO NOT use a round-shaped Pressing socket.

- Incomplete wire connections can cause electric shock or a fire.



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