Contents

Installation

Safety precautions	3
Accessories	
Choosing the installation location	6
Fixing the installation plate	
Disassembling/Assembling the Cover panel for indoor unit installation	
Installing and connecting the assembly pipe of the indoor unit	10
Evacuating the indoor unit	
Cutting or extending the pipe	11
Installing and connecting the drain hose of the indoor unit	13
Changing direction of the drain hose	
Performing leak test & insulation	15
Wiring work	16
Setting an indoor unit address and installation option	19
Final check and trial operation	31
Providing information for user	31
Troubleshooting	31

Safety precautions

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



- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- 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.
- ► This product has been determined to be in compliance with the Low Voltage Directive (2006/95/EC), the Electromagnetic Compatibility Directive (2004/108/EC) of the European Union.
- ▶ 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 help 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
- ▶ 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.)

Safety precautions

- 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.
- ▶ To help prevent injury when accidentally touching the indoor unit fan, install the indoor unit at least 2.5 m above the floor.
- ► 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.
- Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things.
 - For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

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.

Accessories

The following accessories are supplied with the air conditioner:



• The number of each accessory is indicated in parentheses.

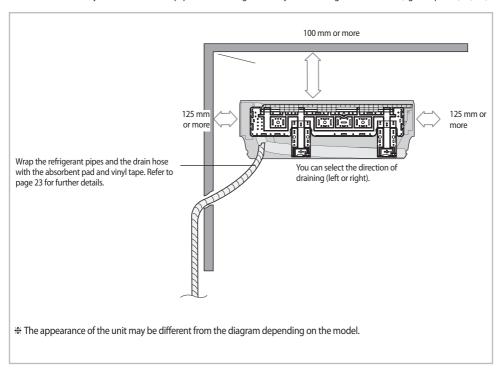
Accessories in the indoor unit case

Installation Plate (1) **015/022/028** (01 frame)	Installation Plate (1) **036/045** (03 frame)	Installation Plate (1) **056/071/082** (05 frame)	Remote controller (1)	Batteries for Remote controller (2)
		(1 <u>———</u> 16)	030	
User's Manual (1)	Installation Manual (1)	Cap Screws(3)	Remote controller holder(1)	M4XL16 screws(2)
Guide (2)				
\bigcap				

Choosing the installation location

Indoor unit

- ▶ Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- ▶ Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight.
- ▶ 1 m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from the fluorescent and incandescent lights (so that the remote controller can be operated well).
- ▶ A place where the air filter can be replaced easily.
- ▶ Don't install directly above electronics equipment as leaking water may cause damage if not serviced. (eg. Computers, TV, etc).

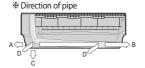


Fixing the installation plate

You can select the direction of the drain hose depending on where you want to install the indoor unit. Therefore before fixing the installation plate to a wall or a window frame, you must determine the position of the 65 mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.

When facing the wall, the pipe and cable can be connected from the:

- · Right (A)
- Left (B)
- Underside_right (C)
- Rear_right or left (D)

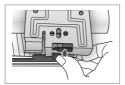


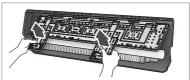
1. Disassemble the cover panel as described in page 8~9.

2. Remove the Hanger plate from the indoor unit.

- (1) Unscrew 2 screws that fixes the Hanger plate to the indoor unit.
- (2) Push the hooks (on the bottom part of the indoor unit) up to release the installation plate from the hooks that holds it.
- (3) Pull the installation plate to release it completely from the indoor unit.

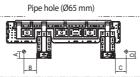


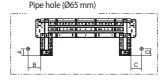




Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.







			(UII	it : mm)
Model	Α	В	С	D
015/022/028	36	60	65	36
036/045	36	120	81	36
056/071/082	33	110	110	33



 Make sure to drill only one hole after choosing the direction of the pipe.

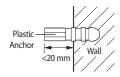
4. Fix the indoor unit.

If you fix the indoor unit on a wall

(1) Fix the installation plate to the wall giving attention to the weight of the indoor unit.



 If you mount the plate to a concrete wall using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, is less than 20 mm.



If you fix the indoor unit on a window frame

- (1) Determine the positions of the wooden uprights to be attached to the window frame.
- (2) Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
- (3) Attach the installation plate to the wooden upright using tapping screws.

If you fix the indoor unit on a gypsum board

- (1) Use stud finder to find out locations of the studs.
- (2) Fix the plate hanger on two studs.

Fixing the installation plate



- Search for other spots if there are less than two studs, or the distance between the studs are different from the
 plate hanger.
- · Fix the installation plate without inclining to one side.



Make sure that a wall can withstand the weight of the product. If you install the product in a place where it is not
strong enough to withstand the product weight, the unit could fall and cause injury.

Assembling the hanger screw

Use 2 screws to fix the indoor unit with hanger plate as shown in the picture.



Disassembling/Assembling the Cover panel for indoor unit installation

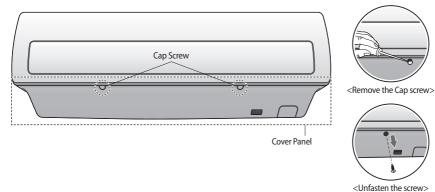


Please scan this QR code for detail video of indoor unit installation.

In order to install the indoor unit, you must disassemble the cover panel first. Please proceed following instructions to disassemble and assemble the cover panel. Hooks (on the cover panel) may get damaged if you apply excessive force as you disassemble and assemble the cover panel. Please follow the following instructions.

Removing the screws

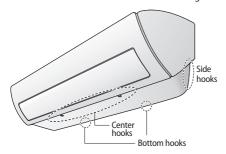
Cover panel is assembled on the bottom part of the indoor unit (as shown in the illustration) and it is fastened with screws. Remove the Cap screw first and unfasten the screws so that you can disassemble the cover panel.



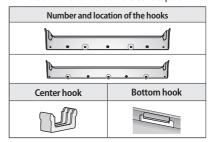
Removing the Cover panel (Before mounting the indoor unit)

The bottom panel fits the main body using the side, center, and bottom hooks as shown. Unlock the side hooks first, and then unlock the center and bottom hooks.

Check the location of the hooks before removing the cover panel.



► Location of the hooks on the central part



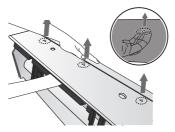
For specific Hook location and quantity, please refer to cover panel with indicating arrows based on physical goods.

► Removing the hooks on the side



- * Caution (fragile)
 - Gently press the both side of the cover panel inwards (1) and release the hooks on both sides(2).

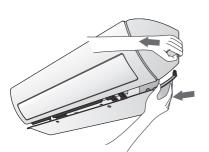
Removing the hooks on the central part



- * Caution (fragile)
 - Use both hands
 - Release each hook by pushing it up at an angle.

Assembling the Cover panel (After mounting the indoor unit)

To assemble the Cover panel, proceed in reverse order of disassembling.
Use both hands for assembling and be extra careful not to damage the pipes and drain hose.
Lock the side, center, and bottom hooks in this sequence. Tighten the bottom panel with the screws, and close the screw holes with their cap.





<Lock the side hook>



<Fasten the screw>



<Lock the bottom hook>



<Assemble the Cap screw>

Installing and connecting the assembly pipe of the indoor unit

Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

There are 2 refrigerant pipes of different diameters:

- The smaller one is for the liquid refrigerant
- The larger one is for the gas refrigerant

A short pipe is already fitted to the air conditioner. You may need to extend the pipe using the assembly pipe (optional).

The connection procedure for the refrigerant pipe varies according to the exit position of the pipe when facing the wall:

- Right(A)
- Left(B)
- Underside(C)
- Rear
- Cut out the appropriate knock-out piece (A, B, C) on the rear of the indoor unit unless you connect the pipe directly from the rear.
- 2. Smooth the cut edges.
- Remove the protection caps of the pipes and connect the assembly pipe to each pipe. Tighten the nuts first with your hands, and then with a torque wrench, applying the following torque:

A	B
C	,

Outer Diameter	Tore	que
Outer Diameter	N•m	kgf•cm
ø6.35 mm	14~18	140~180
ø9.52 mm	34~42	350~430
ø12.70 mm	49~61	500~620
ø15.88 mm	68~82	690~830



- If you want to shorten or extend the pipes, refer to page 15~16.
- 4. Cut off the remaining foam insulation.
- If necessary, bend the pipe to fit along the bottom of the indoor unit. Then pull it out through the appropriate hole.
 - ▶ The pipe should not project from the rear of the indoor unit.
 - ▶ The bending radius should be 100 mm or more.
- 6. Pass the pipe through the hole in the wall.
- 7. For further details on how to connect to the outdoor unit and evacuate the air, refer to page 19~21.



The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test;
 refer to page 22 for further details.



- Tighten the flare nut with torque wrench according to specified method.
 If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.
- DO NOT WALL UP THE PIPE CONNECTION!
 All refrigerant pipe connection must be easy accessible and serviceable.

Assembling the hanger screw and guide

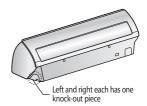
- Cut out the knock-out piece according to the drain hose direction before fixing the indoor unit.
- 2. Fix the indoor unit on the wall.

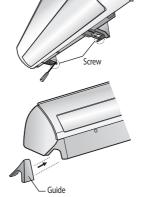
Pass the cables, pipes and hose through the hole which would be connected to the outdoor unit.

- 3. Use 2 screws to fix the indoor unit as shown in the picture.
- Assemble the Guide into the position where the knock-out piece has been cut out before.

There're three hooks on the Guide, they must be totally fixed to the unit.

* The method of assembling the Guide is same whether it's on right or on left.





Evacuating the indoor unit

The indoor unit is supplied with inert gas (nitrogen).

Before installing the unit, check if nitrogen gas flow out of indoor unit.

If this one isn't true, DO NOT INSTALL THE UNIT since leakage could be inside the indoor unit.

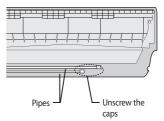
- 1. Unscrew the caps at the end of each pipe.
- ▶ All inert gas exhausts from the indoor unit.



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



- The remaining air in the Refrigeration cycle, which contains moisture, may cause malfunction on the compressor.
- Always contact the service center or a professional installation agency for product installation.



Cutting or extending the pipe

The length of the pipe can be:

- Extended up to : see table page 5
- Shorten up to: see page 5



If you need a pipe longer than 4 or 5 meters:

You must add refrigerant to the pipes; otherwise, the indoor unit may freeze.

Cutting or extending the pipe

- 1. Make sure that you have all the required tools (pipe cutter, reamer, flaring tool and pipe holder).
- 2. If you want to shorten the pipe, cut it using a pipe cutter, ensuring that the cut edge remains at 90° with the side of the pipe (see below examples of correct and incorrect cut edges).









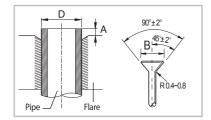


3. To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.



• Face the pipe down while removing the burrs to make sure that burrs do not get in to the pipe.

4. Put a flare nut slightly into the pipe and modify the flare.



Outer Diameter (D)	Depth (A)	Flaring Size (B)
ø6.35 mm	1.3 mm	8.7 - 9.1 mm
ø9.52 mm	1.8 mm	12.8 - 13.2 mm
ø12.70 mm	2.0 mm	16.2 - 16.6 mm
ø15.88 mm	2.2 mm	19.3 - 19.7 mm

5. Check if you flared the pipe correctly (see examples of incorrectly flared pipes below).



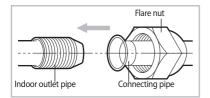








6. Align the pipes to connect them easily. Tighten the flare nuts first with your hands, and then with a torque wrench, applying the following torque:



Outer Diameter	Torque				
Outer Diameter	N•m	kgf•cm			
ø6.35 mm	14~18	140~180			
ø9.52 mm	34~42	350~430			
ø12.70 mm	49~61	500~620			
ø15.88 mm	68~82	690~830			



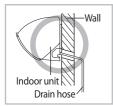
- Excessive torque can be cause of gas leakage. If extending pipe by welding/brazing please ensure nitrogen is used during welding/brazing process. The joint must be accessible and serviceable.
- 7. For further details on how to connect to the outdoor unit and evacuate the air, refer to page 19~21.

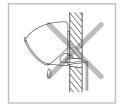


Tighten the flare nut with torque wrench according to specified method.
 If the flare nut is over-tightened, the flare may break and cause refrigerant gas leakage.

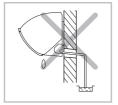
Installing and connecting the drain hose of the indoor unit

When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65 mm hole drilled in the wall, check the followings:

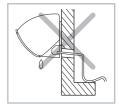




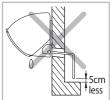
The drain hose must NOT slant upwards.



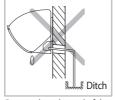
The end of the drain hose must NOT be placed under water.



The drain hose must not be bent.



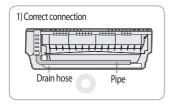
Keep a clearance of at least 5 cm between the end of the drain hose and the ground.

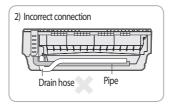


Do not place the end of the drain hose in a hollow.



After completing the installation of the drain hose, pour water into the drain pan to check whether the hose is well drained.







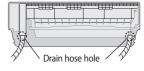
• Don't tie drain hose to the assembly pipe which may lead to water leakage.

Drain hose installation

- 1. If necessary, connect the 2 meter extension drain hose to the drain hose.
- 2. If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
- 3. Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.

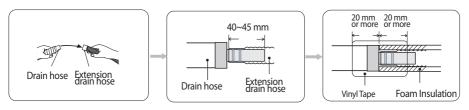


- If you do not use the other drain hose hole, block it with a rubber stopper.
- When extending the Drain Hose, hold the end of Drain Hose and Extended Hose, rotate and insert the drain hose into Extended hose for 40~45 mm. Make sure the two hoses are firmly connected, there is no water leakage.

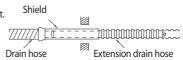


5. Connect the Drain Hose after using Foam Insulation to wrap the Extended Hose. Then, Use vinyl tape to wrap the each side of connection by 20 mm.

Installing and connecting the drain hose of the indoor unit



- 6. Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
- 7. Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.
- 8. Using natural drainage method, check the drainage is normal.





The hose will be fixed permanently into position after finishing the installation and the gas leak test;
 refer to page 22 for further details.



- Make sure the installed direction of the drain hose is correct.
 Inadequate installation may cause condensate water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION!
 Drain hose connection must be easy accessible and serviceable.

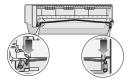
Changing direction of the drain hose

Change the direction only when it is necessary.

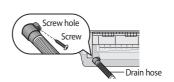
- 1. Detach the rubber cap with the pliers.
- 2. Detach the drain hose by pulling it and turning to the left.
- 3. Insert the drain hose by fixing it with the screw into the groove of the drain hose and the outlet of the drain pan.
- Attach the rubber cap with a screwdriver by turning it to the right until it fixes to the end of the groove.
- 5. Check for leakage on both side of the drain outlet.

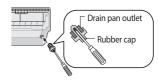














Make sure the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical part.

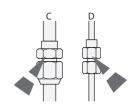
Performing leak test & insulation

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 responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (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.

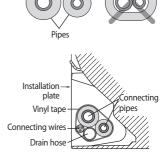


Insulation

After checking for gas leaks in the system, insulate the pipe, hose and cables. Then place the indoor unit on the installation plate.

- To avoid condensation problems, place heat-resistant polyethylene foam separately around each refrigerant pipe in the lower part of the indoor unit.
- Wrap the refrigerant pipe and the drain hose in the rear of the indoor unit with the absorbent pad.
 - ▶ Wind the pipe and hose three times to the end of the indoor unit with the absorbent pad. (20 mm interval)
- 3. Wind the pipe, assembly cable and drain hose with insulation tape.
- Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it doesn't project from the rear of the indoor unit.
- 5. Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.
- 6. Wrap the rest of the pipe with vinyl tape.

7. Attach the pipe to the wall using clamps (optional).



Insulation

Wiring work

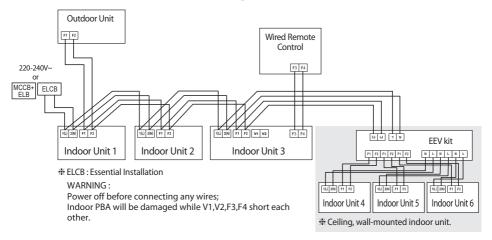
Power and communication cable connection

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

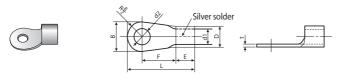
ELCB: Earth Leakage Circuit Breaker MCCB: Molded Case Circuit Breaker

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		3	[)	d	1	Е	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	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

Specification of electronic wire

	Power supply	МССВ	ELB or ELCB	Power cable	Earth cable	Communication cable
Ι.	Max : 242V Min : 198V	хА	<i>X</i> 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 / CENELEC: H07RN-F)

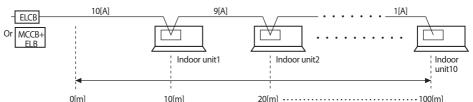
- * X: The capacity of ELCB(or MCCB+ELB).
- * Σ Ai : Sum of Rating currents of each indoor unit.
- * Refer to each installation manual about the rating current of indoor unit.
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

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



* Rating current

Model

015

022

028

036

045

056

071

082

Unit

AM**JN**

Rating

current

0.13A

0.15A

0.19A

0.20A

0.31A

0.29A

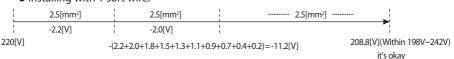
0.41A

0.55A

Apply following equation.

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

- * Calculation
 - Installing with 1 sort wire.



• Installing with 2 different sort wire.



English-17

Wiring work



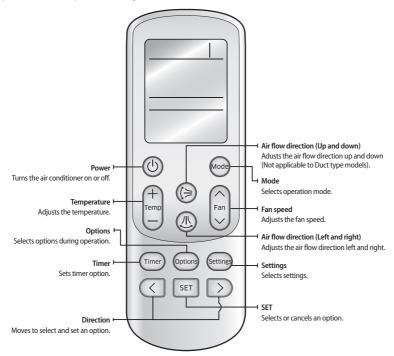
- Select the power cable in accordance with relevant local and national regulations.
- · Wire size must comply with local and national code.
- For the power cable, use the grade of H07RN-F or H05RN-F materials.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- 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			

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.

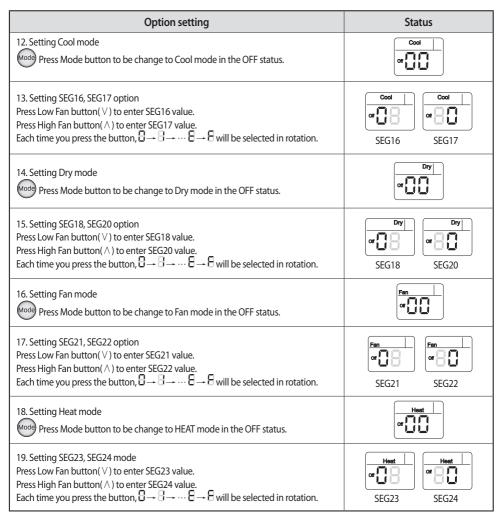


- · Option setting is available from SEG1 to SEG 24
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
 - Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

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

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

Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(∨) to enter SEG2 value. Press High Fan button(∧) to enter SEG3 value. Each time you press the button, □ → □ → ··· □ → □ will be selected in rotation.	Auto On
2. Setting Cool mode Press Mode button to be changed to Cool mode in the ON status.	Cool Cool
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, $\bigcirc - \bigcirc - \bigcirc - \bigcirc$ will be selected in rotation.	Cool Cool On SEG4 SEG5
4. Setting Dry mode A. Setting Dry mode Press Mode button to be changed to DRY mode in the ON status.	On Dry
5. Setting SEG6, SEG8 option Press Low Fan button(\lor) to enter SEG6 value. Press High Fan button(\land) to enter SEG8 value. Each time you press the button, $\bigcirc - \bigcirc - \cdots \bigcirc - \bigcirc$ will be selected in rotation.	on Dry on Dry SEG6 SEG8
6. Setting Fan mode Press Mode button to be changed to FAN mode in the ON status.	Fan On C C C
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.	Fan Con Con Con Con Con Con Con Con Con Co
8. Setting Heat mode Press Mode button to be changed to HEAT mode in the ON status.	Heat On TI
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.	Heat on Heat SEG12
10. Setting Auto mode Mode Press Mode button to be changed to AUTO mode in the OFF status.	Auto Or C C
11. Setting SEG14, SEG15 option Press Low Fan button(∨) to enter SEG14 value. Press High Fan button(∧) to enter SEG15 value. Each time you press the button, □ → □ → ···· □ → □ will be selected in rotation.	SEG14 SEG15



Step 3. Check the option you have set

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



Step 4. Input option

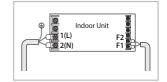
Press operation button with the direction of remote control for set. For the correct option setting, you must input the option twice.

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 (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	SEG1		SEG	2	SEC	<u> </u>	SEC	G4	SEG	i5	SEG	i6
Explanation	PAGE		Mod	le	Setting Ma	in address	100-digit unit ac		10-digit o un		The unit of	-
Remote Controller Display			Auto		Auto	8	Coo On	Cool On On On On			Dry	
	Indication De	etails	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	SEG7		SEG	8	SEG9		SEG	i10	SEG	11	SEG	12
Explanation	PAGE				Setting RMC address				Group cha	nnel(*16)	Group ac	ddress
Remote Controller Display					Fan On				Heat On B	ut L	Hea	3
	Indication De	etails	_		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.
- Indoor Unit

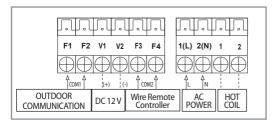
 Indoo
- The panel(display) should be connected to an indoor unit to receive option.
- Set the installation option according to the installation condition of an air conditioner.
 - The default setting of an indoor unit installation option is "020010-100000- 200000-300000".
 - Individual control of a remote 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.

• 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		SEG5		S	EG6
Explanation	PAG	E	1	MODE	Use of clear			external room Iinimizing fan thermostat	operation when	Use of cer	ntral control	FAN RPM o	ompensation
Remote Controller Display			Auto	38	Auto	8		Cool		On B		On 🖥	Dry
Indication	Indication	Details	Indication	Details	Indication	Details	Indication	Use of External room temperature sensor	Minimizing fan operation when thermostat is off	Indication	dication Details		Details
and Details							0	Disuse	Disuse			0	Disuse
	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	SEC	59		SEG10		SE	G11	SE	G12
Explanation	PAG	E	Use of	drain pump	Use of ho						hen heating ops		
Remote Controller Display			On	Dry	Fan On 🖥	B				On B	eat		
	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	When an indoor unit stops, drain pump will operate for 3min	3	 Use (*2)				1	Noise decreasing setting		

Option	SEG1	3	SEC	G14		SEG15		SE	G16		SEG17	SE	G18
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 of 3		8	ol	0	Cool	or 🖯	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			6	2000 Hour
			3	Window ON/OFF control	3	-	Use (*3)						
Option	SEG1	9	SEC	520		SEG21			G22		SEG23	SE	G24
Explanation	PAG	E	Individual or remote of			tting compensa sated water in h	tion / Removing eating mode	unit during	of stopped g oil return/ t mode	Mot	ion detect sensor		-
Remote Controller Display			Of _	Dry		Fan or		Fan		Of	Heat		
	Indication	Details	Indication	Details	Indication	De 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		
			3	channel 3	2	5℃	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℃	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		

- * 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) It is only for wall-mounted indoor unit with EEV Integrated.
 - If any design condition meets either of the following below, please set SEG11 to "7".
 - a) The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than 20.
 - b) The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than "the total of one(modular) system's capacity(kW) / 2"
 - ("the total of one(modular) system's capacity(BTU/h) / 6800").
 - ex) Outdoor capacity 28kW 28/2 = 14. The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than 14.

Please refer to the EEV step table below for the system (for heating) at stop.

	Indication	0	1	2	3	4	5	6	7	8	9	Α	В
Stopped	Wall Mounted With EEV	80	0	90	100	110	120	130	160	200	250	300	400
Unit's EEV step	Other Indoor Units except for wall mounted with EEV	Default	0					No Fu	nction				

- (*4) 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.
- (*5) Default setting value
 - 4Way Cassette, Mini 4Way Cassette: 5 °C
 - Other indoor units: 2 °C
- (*6) 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	SEG	1	SE	G2	SEC	53	S	EG4	SE	:G5	SE	:G6
Explanation	PAG	E	МС	DDE	Use of Auto Over for H Auto r	R only in	Standa	etting SEG3) rd heating o. Offset	Standard co	tting SEG3) poling temp. fset	cha	tting SEG3) I for mode inge → Cooling
Remote Controller Display			Auto On 5	8	Auto On [B	· E	ool	Cool		·8	Dry
	Indication	Details	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°C	1	1.5°C
and Details				-			2	1℃	2	1℃	2	2℃
and Details	0		:	5		Use Auto	3	1.5℃	3	1.5°C	3	2.5°C
					1	Change Over for	4	2°C	4	2°C	4	3℃
						HR only	5	2.5℃	5	2.5°C	5	3.5℃
						_	6	3℃	6	3℃	6	4℃
							7	3.5℃	7	3.5℃	7	4.5°C
Option	SEG	7	SE	G8	SEC	59	SI	EG10	SE	G11	SE	G12
Explanation	PAG	E	Standard changing	ting SEG3) for mode Cooling → g mode	(When sett Time requ mode c	uired for	for Long p	ation option oipe or height ce between or units				
Remote Controller Display			On _	Dry B	Fan On B	8	Fan On	8				
	Indication	Details	Indication	Details	Indication	Details	Indication	Details				
			0	1°C	0	5 min.	0	Use default value				
			1	1.5℃	1	7 min.		1) Height				
			2	2°C	2	9 min.		difference ¹⁾				
Indication and Details	1		3	2.5°C	3			is more than 30m or 2) Distance ²⁾ is longer than 110m				
			4	3°C	4 13 min.		1) Height					
			5	3.5℃	5	15 min.		difference ¹⁾ is				
			6	4°C			2	15~30m or 2) Distance ²⁾ is				
1			7	4.5℃	7	30 min.	_	2) Distance 1s 50~110m				

Option	SEG13	SEG14	SEG15	SEG16	SEG	17		SEG18(*3)	
Explanation							Co	ontrol variables when using hot wa	ter / external heater
Remote Controller Display								Or Or Or	
							Indication	Detail	S
							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
							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
							Α	4.5 ℃	10 minutes
							В	4.5 °C	20 minutes
							С	6.0 ℃	No delay
							D	6.0 ℃	10 minutes
							Е	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)

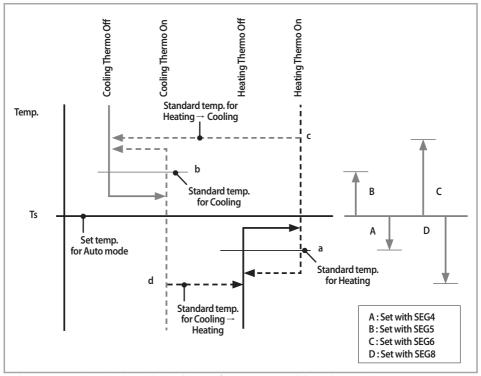
- (*3) Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater
 - e.g. 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 = "0": Hot water heater is turned on at the same time as the heating thermostat is on, 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 $4.5\,^{\circ}\text{C}$ 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.

Changing a particular option

You can change each digit of set option.

Option	SEG	1	SEG	2	SEG	3	SEG	i4	SEG	5	SEG	6
Explanation	PAG	E	MOE	DE	The option		The tens'd option SEG	you will	The unit di option SEG chan	you will	Changed on Indication The changed	l value
Remote Controller Display			Auto		Auto On 1	3	Cool		Cool	3		Dry
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication and Details	0		D		Option mode	' 1~6		0~9	Unit digit of SEG	0~9		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.

Final check and trial operation

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

- 1. 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)
- 2. Press the (b) button and check the following:
 - ◆ The indicator on the indoor unit lights up.
 - ◆ The airflow blade opens and the fan gears up for operation.
- 3. Press any button and check the following:
 - ◆ The appropriate indicator lights up and the air conditioner operates according to the selected mode or function.
- 4. Press the (button and check the following:
 - ◆ The airflow blades work properly.

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

Detection of errors

- ◆ If an error occurs during the operation, an 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

LED Display

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- When E108 error occurs, change the address and reset the system.Ex.) When address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.

Troubleshooting

	Error code	Ī	<u>LED Display</u>		
Abnormal condition		(1)	(4)	TURBO	
Error on indoor temperature sensor (Short or Open)	E121	X	•	×	
Error on Eva-in sensor (Short or Open) Error on Eva-out sensor (Short or Open) Discharge sensor error (Short or Open)	E122 E123 E126	•	•	×	
Indoor fan error	E154	×	×	•	
Error on outdoor temperature sensor (Short or Open) Error on cond sensor Error on discharge sensor Other outdoor unit sensor error that is not on the above list	E221 E237 E251	•	×	•	
1. When there is no communication between the indoor-outdoor units for 2 minutes 2. Communication error received from the outdoor unit 3. 3 miniute tracking error on outdoor unit 4. Communication error after tracking due to unmatching number of installed units 5. Error due to repeated communication address 6. Communication address not confirmed Other outdoor unit communication error that is not on the above list	E101 E102 E202 E201 E108 E109	×	•	•	
Self diagnosis error display 1. Error due to opened EEV (2nd detection) 2. Error due to closed EEV (2nd detection) 3. Eva in sensor is detached 4. Eva out sensor is detached 5. Thermal fuse error (Open)	E151 E152 E128 E129 E198	•	•	•	
1. COND mid sensor is detached 2. Refrigerant leakage (2nd detection) 3. Abnomally high temperature on Cond (2nd detection) 4. Low pressure s/w (2nd detection) 5. Abnomally high temperature on discharged air on outdoor unit (2nd detection) 6. Indoor operation stop due to unconfirmed error on outdoor unit 7. Error due to reverse phase detection 8. Comp stop due to freeze detection (6th detection) 9. High pressure sensor is detached 10. Low pressure sensor is detached 11. Outdoor unit copression ration error 12. Outdoor sump down_1 prevetion control 13. Compressor down due to low pressure sensor prevention control_1 14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection) 15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection) Other outdoor unit self-diagnosis error that is not on the above list	E241 E554 E450 E451 E416 E559 E425 E403 E301 E306 E428 E413 E410 E180	•	•	•	
EEPROM error	E162	•	•	•	
EEPROM option error	E163	•	•	•	
Error due to incompatible indoor unit	E164	•	•	•	





DB68-04984A-00



Air Conditioner installation manual



This manual is made with 100% recycled paper.

imagine the possibilities

Thank you for purchasing this Samsung product.

