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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.

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.
- 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.

ENGLISH

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.
- CAUTION •

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.
- If you use the wireless remote controller, reception error may occur due to the ballast of the ligi
 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.

User manual(1)	Installation manual(1)	Clamp hose(1)	Flexible hose (1)	Insulation drain (1)
\square	\square	Q#		
Thermal insulation sponge A (1)	Thermal insulation sponge B (1)	Thermal insulation sponge C (1)	Cable-tie(8)	Rubber(8)
	0		¢	

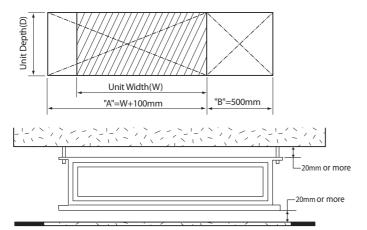
Deciding on where to install the indoor unit

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

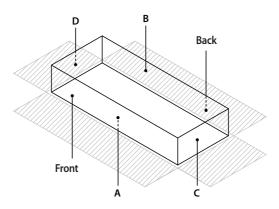
- Construction Standard for Inspection Hole
- 1) In case, the ceiling is tex tile, Inspection hole dose not need.
- 2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiing.
- a. Height is more than 0.5m : Only "B" [Inspection for PBA] is applied.
- b. Height is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



- You must have20mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user.When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- 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

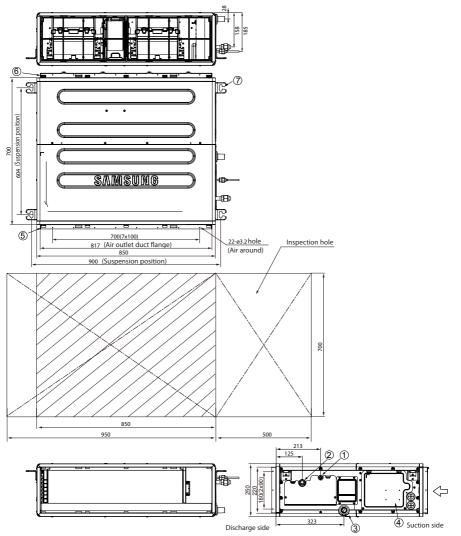
Indoor Unit		А	В	С	D	Front/Back
AC035JNMCEH	850X700X250	850X250	850X250	700x250	700x250	
AC071JNMCEH	1200x700x250	1200x250	1200x250	700x250	700x250	Insulate the front and back side in proper size at the same time when insulating the suction
AC100JNMCEH AC125JNMCEH	1300x700x300	1300x300	1300x300	700x300	700x300	duct and discharge duct.

• 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.

AC035JNMCEH

Unit:mm

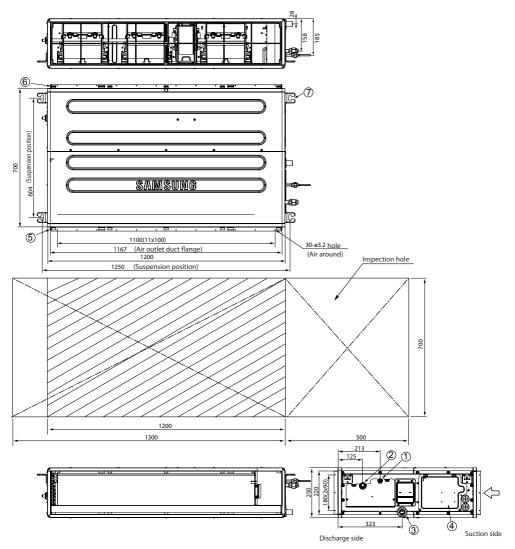


No.	Name	Description
1	Liquid pipe connection	ø6.35(1/4")
2	Gas pipe connection	ø9.52(3/8")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

Deciding on where to install the indoor unit

AC071JNMCEH

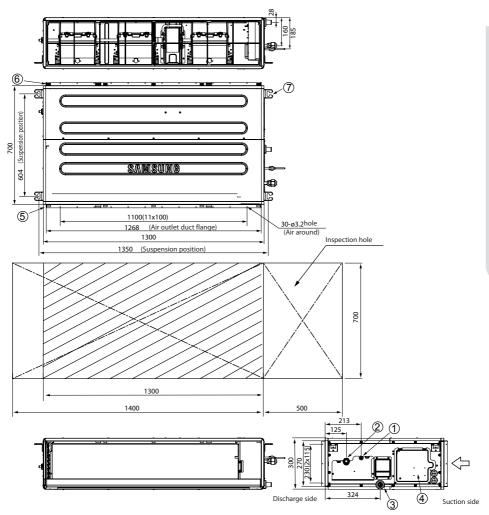
Unit:mm



No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	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

AC100JNMCEH / AC125JNMCEH

Unit:mm

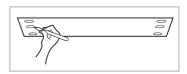


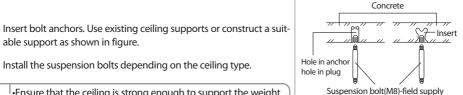
No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø15.88(5/8")
3	Drain pipe connection	OD25 ID20(without drain pump)
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

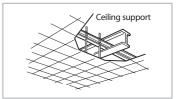
Indoor unit installation

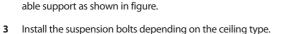
When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

- 1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.
- e Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this NOTE reason, before drilling the holes maintain the correct dimensions between the markings.









•Ensure that the ceiling is strong enough to support the weight CAUTION 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.

Screw eight nuts to the suspension bolts making space for hanging 4 the indoor unit.



2

·You must install all the suspension rods.

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

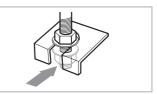
Ŵ •Piping must be laid and connected inside the ceiling when CAUTION suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

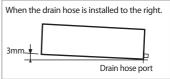
6 Screw the nuts to suspend the unit.

- Adjust level of the unit by using measurement plate for all 4 sides. 7
- •For proper drainage of condensate, give a 3mm slant to the left or right side of the unit which will be connected with the CAUTION 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.

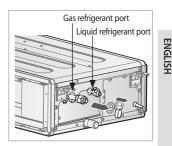
(E) NOTE

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.

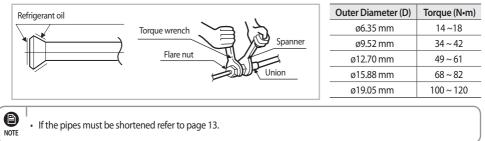


* The designs and shape are subject to change according to the model.

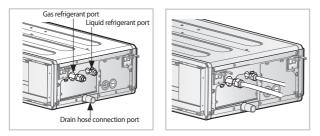
Connecting the refrigerant pipe

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.



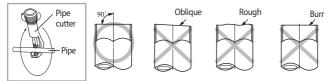
- 2. Must use insulator which is thick enough to cover the refrigerant tube to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.
- 3. Cut off any excess foam insulation.
- 4. Be sure that there must be no crack or wave on the bended area.
- 5. 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

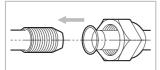
- 1. Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool and pipe holder)
- 2. If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for 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
Pipe - Flare	ø19.05 mm	2.2 mm

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



Correct



Damaged

Surface

Cracked



Uneven Thickness

Outer diameter (D,mm)	Connection torque (N•m)	Flare dimension (L,mm)	Flare shape (mm)
Ø 6.35	14~18	8.7~9.1	
Ø 9.52	34~42	12.8~13.2	
Ø 12.70	49~61	16.2~16.6	96 L
Ø 15.88	68~82	19.3~19.7	
Ø 19.05	100~120	23.6~24.0	



• If the pipes require brazing ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.

CAUTION • Nitrogen blowing pressure range is $0.02 \sim 0.05$ MPa.

Performing leak test & insulation

Leak test

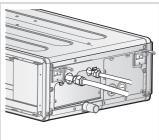
LEAK TEST WITH NITROGEN (before opening valves)

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.





* 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.

hihe:	1
Note Always make the seam of pipes face upwards.	No gap
CAUTION 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.	NBR(T13.0 or thicker)
2 Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.	Insulation cover pipe / Insulation pipe
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.	Be sure to overlap the insulation
 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. 	• Must fit tightly against body without any gap.
 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 refer If installing in an unfavorable conditions, use thicker one. 	ring to the table below.
▲ Inculator's heat resistance tomporature should be more than 120°C	

◆ Insulator's heat-resistance temperature should be more than 120°C.

		Insulation Type		
Pipe	Pipe size	Standard [30°C, 85%]	High humidity [30°C, over 85%]	Remarks
		EPDM		
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	10	254	nigher than 120 C
pipe	Ø15.88	19t	25t	
	Ø19.05			

• When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions. <Geological condition>

- 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.

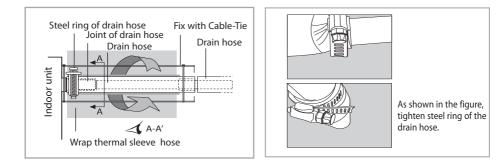
e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.

- 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.)

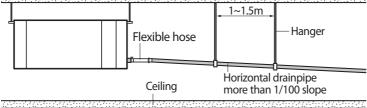


Drainpipe Connection

Without the drain pump

16

- 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.

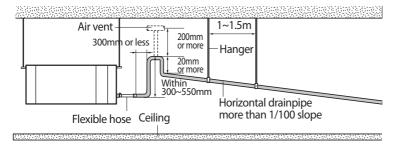


With the drain pump

- 1. 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.

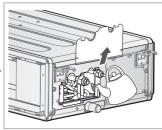
4 The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.



Testing the drainage

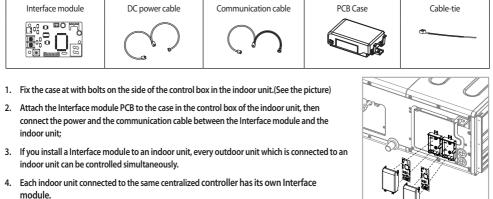
Prepare a little water about 2 liter.

- 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.



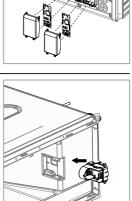
Interface module Installation (Optional)

Accessories (Interface module : MIM-N01)



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.

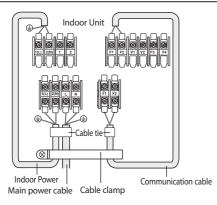
 Always remember to connect the air conditioner to the grounding system before performing the electric connections.

The indoor unit is powered by the outdoor unit by means of a H07 RN-F connection cable (or a more power model),

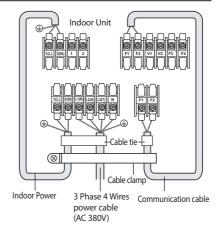
- with insulation in synthetic rubber and jacket in polychloroprene(neoprene), in accordance with the requirements of standard EN 60335-2-40.
- 1. Remove the screw on the electrical component box and remove the cover plate.
- 2. Route the connection cord through the side of the indoor unit and connect 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.

Wiring diagram

1 phase(*035/071/100*)



3 phase(*100 /125*)



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

	Communication Cable			
Power Supply	Power Supply Max/Min(V) Indoor Power cable			
220-240V~/50Hz	±10%	1.5mm ² † ,3wires	0.75~1.25mm ² ,2wires	

* 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)

* Screws on terminal block must not be unscrewed with the torque less than 12 kgf•cm.

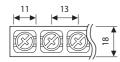
* Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



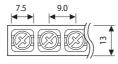
When installing the indoor unit in a computer room, use the double shielded(Tape aluminum / polyester braid + copper) cable of FROHH2R type.

Terminal Block SPEC (Indoor)

AC POWER : M4 SCREW



COMMUNICATION : M3.5 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 Sec buttons at the same time for more than 3 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 enter a automatic air-volume setting screen.

4).Press the A/ 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 🗺 button, then the air conditioning unit will

start the fan operation for Automatic Air-Volume adjustment.

 $\ensuremath{\#}$ Do not adjust the dampers during fan operation for Automatic Air-Volume adjustment.

9). Press _____ button to escape setting mode.

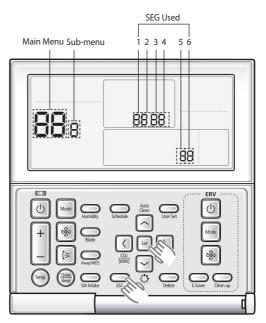
(During the automatic air-volume adjustment,[Main Menu] will be displayed

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.

Main menu	Sub menu	Functions	SEG used	Default	Range
					0 - OFF (Fail or Disable)
	1	Automatic Air-Volume State Return	1	0	1 - Completion.
					2 - Running Automatic Air-Volume.
	2	Automatic Air Valuma Operation		0	0 - Disable
8	2	Automatic Air-Volume Operation	I		1 - Enable
				2	1-220V
	2	Automatic Air-Volume			2-230V (Default)
	Voltage Setting	I	2	3- 240V	
20				When you iinstall the new product, it could display "0"	



repetitively)

• 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	AC035JNMCEH
Static Pressure(mmAq)	Option code for indoor unit
0≤ SP ≤2.5	01B26C-1C5081-27232B-371000
2.5< SP ≤5	01B26C-1C50E6-27232B-371000
5< SP ≤7.5	01B26C-1C545B-27232B-371000
7.5< SP ≤10	01B26C-1C54CF-27232B-371000
10< SP ≤12.5	01B26C-1C5933-27232B-371000
12.5< SP ≤15	01B26C-1C5987-27232B-371000

Model	AC071JNMCEH
Static Pressure(mmAq)	Option code for indoor unit
0≤P≤3	01B26C-1C50D5-274750-372020
3 <p≤6< td=""><td>01B26C-1C5459-274750-372020</td></p≤6<>	01B26C-1C5459-274750-372020
6 <p≤8< td=""><td>01B26C-1C54BC-274750-372020</td></p≤8<>	01B26C-1C54BC-274750-372020
8 <p≤10< td=""><td>01B26C-1C54FE-274750-372020</td></p≤10<>	01B26C-1C54FE-274750-372020
10 <p≤12.5< td=""><td>01B26C-1C5942-274750-372020</td></p≤12.5<>	01B26C-1C5942-274750-372020
12.5 <p≤15< td=""><td>01B26C-1C5994-274750-372020</td></p≤15<>	01B26C-1C5994-274750-372020
Model	AC100JNMCEH
Static Pressure(mmAq)	Option code for indoor unit
0≤ SP ≤4	01B26C-1C50F2-276470-375045
4< SP ≤8	01B26C-1C5447-276470-375045
8< SP ≤12	01B26C-1C54BC-276470-375045
12< SP ≤15	01B26C-1C5910-276470-375045

Model	AC125JNMCEH
Static Pressure(mmAq)	Option code for indoor unit
0≤P≤5.2	01B26C-1C5425-277D8C-374045
5.2 <p≤8< td=""><td>01B26C-1C547A-277D8C-374045</td></p≤8<>	01B26C-1C547A-277D8C-374045
8< SP ≤12	01B26C-1C54ED-277D8C-374045
12< SP ≤15	01B26C-1C5929-277D8C-374045

B NOTE

e

NOTE

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 ~ -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 🗺 button to complete the Easy Tuning.

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

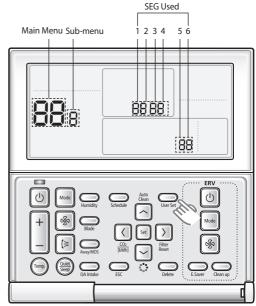
4) Press the \bigoplus_{BC} button to to exit to normal mode.

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

NOTE

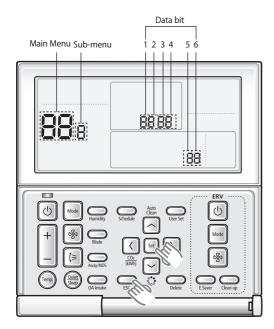
• Press the \bigoplus_{ESC} button anytime during setup to exit without setting.

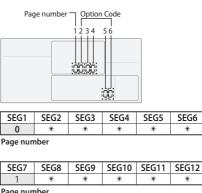
 According to airflow changed from the Easy Tuning, Air conditioning performance reducing is possible.



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.





ENGLISH

Page number

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

Page number

SEG19	SEG20	SEG21	SEG22	SEG23	SEG24			
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 A/A button to select and then press button to enter a Sub-menu setting screen.
- 3) Press the A/ button to select d 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. NOTE
- 4) Press the \(\/\) button to set the option code in order. Press \) button to go to the next page.
- 5) Press the 🗐 button to save and complete the option setting.
- 6) Press the 💬 button to exit to normal mode.

P

B Press the R button anytime during setup to exit without setting. NOTE

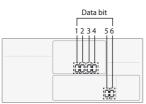
<u>/</u>]` Option code will not be applied if you don't press the Set CAUTION Setting indoor unit option code is only possible in Master wired remote controller. You can only check the indoor unit option code in Slave wired remote controller. · Setting indoor unit option code is possible when one indoor 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 🗺 and 💬 buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
- 2) Press the A/ button to select and then press button to enter a Sub-menu setting screen.
- 3) Press the A/ button to select and then press button to enter a Indoor Address setting screen.



NOTE

NOTE

- 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 A/ button to set the Indoor unit Main/RMC Address.
- 5) Press the set button to save and complete the option setting.
- 6) Press the \bigoplus_{BC} button to exit to normal mode.
 - Press the 💭 button 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 and control buttons at the same time for more than 3 seconds and then a Main menu will be displayed.
- 2) Press the A/ button to select and then press button to enter a Sub-menu setting screen.
- 3) Press the A/S 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 A/S button to set the installation option code in order. Press button to go to the next page.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	Exterior temperature sensor	Central control	RESERVED
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Use of Hot Coil	RESERVED	RESERVED	RESERVED
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	-
3	Individual control of a remote controller	Heating setting compensation	RESERVED	Away Set OFF Timer	-

Setting an indoor unit address and installation option

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

Option	SEG	1	SEC	52		SEG3		SEC	G4	SEG5		SEG6		
Explanation	PAG	E	МО	DE				Use of e tempe sen	rature		central ntrol			
	Indication	Details	Indication	Details	RESERVED		Indication	Details	Indication Details		RESERVED			
Indication and Details							0 Disuse		0	Disuse				
allu Detalis	0		2					1	Use	1	Use			
Option	SEG	7	SEC			SEG9		SEG	10	SE	G11	S	EG12	
Explanation	PAG		Use of dra			of Hot Coi								
	Indication	Details	Indication	Details	Indication	Details								
			0	Disuse	0	Disus	-							
Indication and Details	1		2	Use + 3minute delay	-	Use -		RESEF	RVED	RESERVED		RESERVED		
Option	SEG1	3	SEG	14	S	SEG15		SEG	516	SE	G17	SEG18		
Explanation	PAG	E	Use of e cont			the outp rnal cont		S-Plasma ion				Number of hours using filter		
	Indication	Details	Indication	Details	Indication	Details	s	Indication	Details	Indication	Details	Indication	Details	
			0	Disuse	0	Thermo	on	0	Disuse	0	Use of buzzer	2	1000 Hour	
Indication and Details			1	ON/OFF Control										
and Details	2		2	OFF Control	1	Operation	n on	1	Use	Use 1	1	Non use of	6	2000 Hour
			3	WINDOW ON/OFF Control							buzzer			
Option	SEG1	9	SEG			SEG21 SEG22 SEG23			-					
Explanation	PAG	E	control of contr			ng settin pensatior				Away Set OFF Timer			-	
	Indication	Details	Indication	Details	Indicati	on Det	tails			Indication	Details		-	
			0 or 1	Indoor 1	0	Dis	suse	Auto		0 or 1	Set OFF			
Indication and Details	3		2	Indoor 2	1	2	°C			2	Set OFF	:		
and Deally	3		3	Indoor 3	2		°C			3	Set OFF		-	
			4	Indoor 4	2	5								

5. Press the ^{Set} button to save and complete the option setting.

6. Press the \bigoplus_{BC} button to exit to normal mode.

- · Press ♀ 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.

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

		Ī	ndicator	<u>s</u>			ENGLISH
Abnormal conditions	Concea (Green	led Type		×		<u>Remarks</u>	LISH
	Standa	rd Type					
Power reset		х	х	x	х		
Error of Room sensor in the indoor unit(Open/Short)	х	х		х	х		
Error of EVA-IN,EVA-OUT 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		Х	х				
Detection of the float switch	x	×	х				
Error of EEPROM or OPTION SETTING							
 No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) Indoor unit receiving the communication error from outdoor unit Outdoor unit tracking 3 minutes error When sending the communication error from the outdoor unit, the mismatching of the communication num- bers and installed numbers after comple- tion of tracking. (Communication error for more than 2 minutes) 	x	x	•	•	x	 Indoor unit error (Display is unrelated with operation) Outdoor unit error (Display is unrelated with operation) 	

On () Flickering X Off

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

Troubleshooting

Wired remote controller

• If an error occurs, *if* 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	
558	Option code miss matching among the indoors (only for DPM)	Check indoor option code
<i>688</i>	Error of communication down between the indoor unit and wired remote controller after 3minutes.	
688	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
<i>683</i>	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				

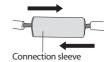
2) As shown in the figure, peel off the shields from the rubber or wire of the power cable.

- Peel off 20 mm of the wire shields of the tube installed already.

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.

(provided by us)

Power cable



 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.

- Connection 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.



Method 1



Method 2



How to connect your extended power cables

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

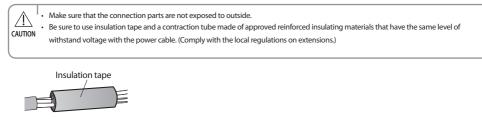




6) Apply heat to the contraction tube to contract it.



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



∴ In case of extending the electric wire, please DO NOT use a round-shaped Pressing socket. WARNING - Incomplete wire connections can cause electric shock or a fire.



ENGLISH

SAMSUNG

Duct Type Series AC***JNMCEH



Air Conditioner installation manual

imagine the possibilities

Thank you for purchasing this Samsung product.



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