Air Conditioner installation manual







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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 air conditioner is compliant with the requirements of the Low Voltage Directive (72/23/EEC), the EMC Directive (89/336/EEC), and the Directive on pressurized equipment (97/23/EEC).
- ◆ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the 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.

Safety precautions

GENERAL INFORMATION

- ♦ 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 control (optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

INSTALLING THE UNIT

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

- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- ◆ After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- ◆ To prevent injury when accidentally touching the indoor unit fan, install the indoor unit at least 2.5m(8'-2 7/16") 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.

Deciding on where to install the air conditioner

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.

Indoor Unit

- ◆ There must be no obstacles near the air inlet and outlet.
- Install the indoor unit on a surface that can support its weight.
- Choose a position that enables the piping and cables to be easily connected to the outdoor unit and the recommended length of 7.5m(24'-7 1/4") to be respected.
- ♦ Leave enough clearance beneath the indoor unit to enable the filters to be removed without hindrance.
- ♦ Maintain sufficient clearance around the indoor unit, as indicated in the diagram on the page opposite.
- ♦ Make sure that the water dripping from the drain hose runs away correctly and safely.



- · You have just purchased a Free Joint Multi air conditioner and it has been installed by your installation specialist.
- This device must be installed according to the national electrical rules.
 - Max input power & current is measured according to IEC standard and input power & current is measured
 according to ISO standard.

Indoor/outdoor unit installation drawings

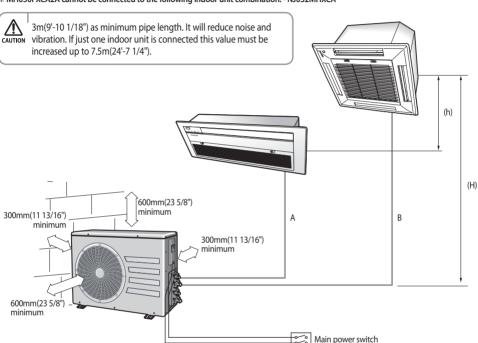
MH050FXCA2A

◆ Piping outside diameter

Indoor unit	Outdoor unit	Power supply Ø, V, Hz
NJ***1HXCA NJ030MHXCA	MH050FXCA2A	1, 208-230, 60
NJ035MHXCA		

Unit	Outside	diameter
Onit	Liquid Gas	
026/030/035	1/4"	3/8"

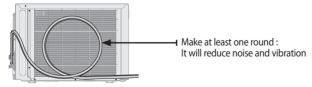
* MH050FXCA2A cannot be connected to the following indoor unit combination. - NJ052MHXCA



◆ Piping length and the helght

	1 Room max length	2 Room total max length	Max height between indoor unit & outdoor unit	Max height between indoor units
Dimension	20m(65'-7 3/8")	30m(98'-5 1/8")	15m(49'-2 9/16")	7.5m(24'-7 1/4")
Composition	A, B	A+B	(H)	(h)

* System can work with one indoor unit connected, but it is recommended that the total number of indoor unit suggested by manufacturer are connected to obtain the maximum performance.



^{*} The appearance of the unit may be different from the diagram depending on the model.

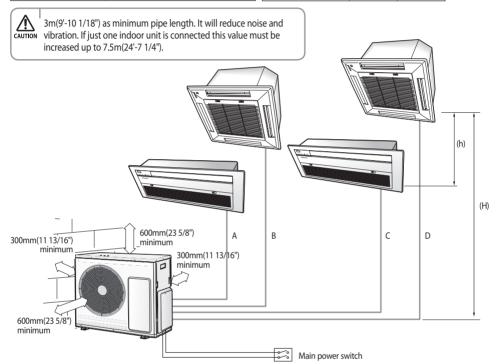
Indoor/outdoor unit installation drawings

MH080FXCA4A

Piping outside diameter

Indoor unit	Outdoor unit	Power supply Ø, V, Hz
026/030/035/052	MH080FXCA4A	1, 208-230, 60

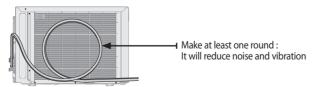
Unit	Outside diameter		
Onit	Liquid Gas		
026/030/035	1/4"	3/8"	
052	1/4	1/2"	



◆ Piping length and the helght

	1 Room max length	4 Room total max length	Max height between indoor unit & outdoor unit	Max height between indoor units
Dimension	25m(82'-1/4")	70m(229'-7 7/8")	15m(49'-2 9/16")	7.5m(24'-7 1/4")
Composition	A, B, C, D	A+B+C+D	(H)	(h)

* System can work with one indoor unit connected, but it is recommended that the total number of indoor unit suggested by manufacturer are connected to obtain the maximum performance.



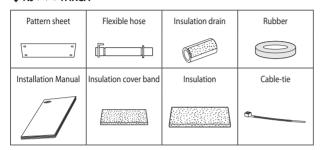
* The appearance of the unit may be different from the diagram depending on the model.

Air conditioner and accessories

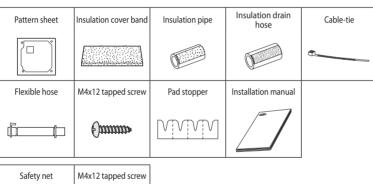
Accessories in the indoor unit case

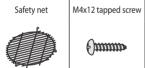
The following accessories are supplied with the indoor unit. The type and quantity may differ depending on the specifications.

♦ NJ***1HXCA



♦ NJ***MHXCA





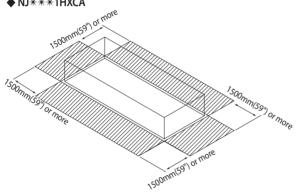
Deciding on where to install the indoor unit

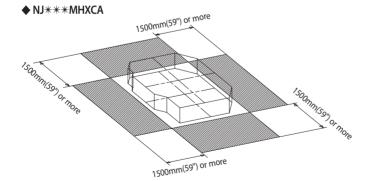
Indoor Unit

- 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)

Space Requirements for Indoor Unit



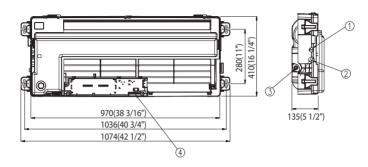


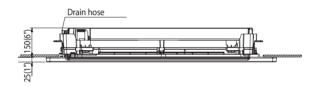


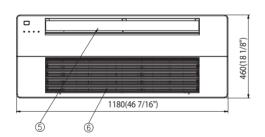


The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products. The unit's parts must be reachable and removable completely under safety condition (for people or things).

Unit: mm(inch)







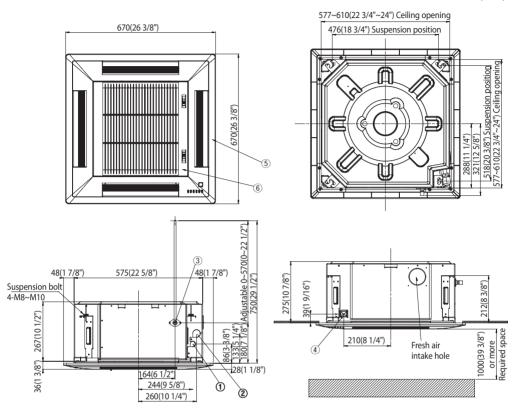
No.	Name	Description	
1	Liquid pipe connection	ø6.35(1/4")	
2	Gas pipe connection	ø9.52(3/8")	
3	Drain pipe connection	OD 29(1 1/8"), ID 25(1")	
4	Power supply connection	-	
5	5 Air discharge grille -		
6	6 Air suction grille		

Dimension and weight			
Net dimension Indoor unit			970 x 135 x 410(38 3/16" x 5 5/16" x 16 1/8")
Net dimension	Panel size	mm(inch)	1180 x 25 x 460(46 7/16" x 1" x 18 1/8")
Net weight	Indoor unit + Panel	kg(lb)	13(28.6)

Deciding on where to install the indoor unit

♦ NJ***MHXCA





Na	Nome	Descr	iption	
NO.	No. Name	**026/030/035**	**052**	
1	Liquid pipe connection	ø6.35(1/4")	ø6.35(1/4")	
2	Gas pipe connection	ø9.52(3/8")	ø12.70(1/2")	
3	Drain pipe connection	OD 29(1 1/8"), ID 25(1")		
4	Power supply connection	-	-	
5	Air discharge grille	-	-	
6	Air suction grille	-	-	

Dimension and weight		**026/030/035**	**052**	
Nat discousion	Indoor unit		575 x 260 x 575(22 5	/8" x 10 1/4" x 22 5/8")
Net dimension	Panel size	mm(inch)	670 x 35 x 670(26 3	/8" x 1 3/8" x 26 3/8")
Net weight	Indoor unit + Panel	kg(lb)	19.6	(43.2)

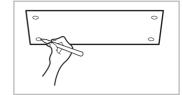
Indoor unit installation

It is recommended to install the refnet joint before installing the indoor unit.

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



Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings; refer to pages 9~10.



Concrete

Suspension bolt(3/8" or M10)

Hole in anchor

Hole in plug

Insert

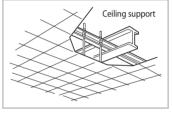
- 2. Insert bolt anchors, use existing ceiling supports or construct a suitable support as shown in figure.
- Install the suspension bolts depending on the ceiling type.



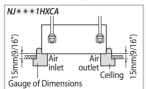
- Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- If the length of suspension bolt is more than 1.5m(59"), it is required to prevent vibration.
- If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.
- 4. Screw eight nuts to the suspension bolts making space for hanging the indoor unit.

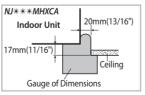


You must install the suspension bolts more than four when CAUTION installing the indoor unit.

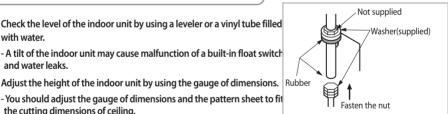


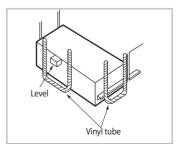
- Check the level of the indoor unit by using a leveler or a vinyl tube filled with water.
 - and water leaks.
- 6. Adjust the height of the indoor unit by using the gauge of dimensions. Rubber
 - You should adjust the gauge of dimensions and the pattern sheet to fit the cutting dimensions of ceiling.
 - Make sure that the indoor unit is installed at a level if the indoor unit slants too much, there can be water leaks.





- 7. Tighten the upper part nuts.
- Remove the gauge of dimensions after installing the indoor unit.





Purging the unit

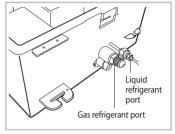
From factory the unit is supplied and set with a pre-charge of nitrogen gas (insert gas). Therefore, all insert gas must be purged before connecting the assembly piping. Make sure all the nitrogen gas is purged out before installing the unit. If not, do not install the unit because leftover nitrogen could cause internal leakage.

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

Result: All insert gas escapes from the indoor unit.



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



 $\#\,\mbox{The}$ designs and shape are subject to change according to the model.

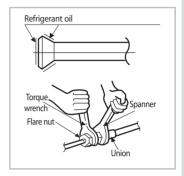
Connecting the refrigerant pipe

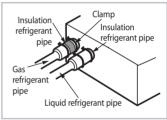
There are two refrigerant pipes of differing diameters:

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

Outer Diameter	Torque [N•m(lbf.ft)]
ø6.35mm(1/4")	18(13.2)
ø9.52mm(3/8")	42(31.0)
ø12.70mm(1/2")	55(40.5)
ø15.88mm(5/8")	65(47.9)
ø19.05mm(3/4")	100(73.7)
ø22.23mm(7/8")	100(73.7)

- If the pipes must be shortened, refer to page 14.
- Must use insulator which is thick enough to cover the refrigerant pipe to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.
- 3. Cut off any excess foam insulation.
- 4. Be sure that there must be no crack or wave on the bended area.
- It would be necessary to double the insulation thickness[10mm(3/8") or more] to prevent condensation even on the insulator when if the installed area is warm and humid.





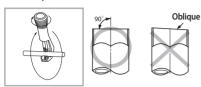
*The designs and shape are subject to change according to the model.

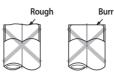


- Connect the indoor and outdoor units using pipes with flared connections(not supplied). For the lines, use
 insulated, unwelded, degreased and deoxidized copper pipe, (Cu DHP type to ISO 1337), suitable for operating
 pressures of at least 4200kPa and for a burst pressure of at least 20700kPa. Copper pipe for hydro-sanitary
 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.

Cutting/flaring the pipes

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



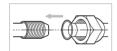


- 3. To prevent any gas from leaking out, remove all burrs at the cut end of the pipe, using a reamer.
- 4. Slide a flare nut on to the pipe and modify the flare.



Outer Diameter (D)	Depth (A)
ø6.35mm(1/4")	1.3mm(0.05")
ø9.52mm(3/8")	1.8mm(0.07")
ø12.70mm(1/2")	2.0mm(0.08")
ø15.88mm(5/8")	2.2mm(0.09")
ø19.05mm(3/4")	2.2mm(0.09")
ø22.23mm(7/8")	2.2mm(0.09")

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













Uneven Thickness

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

	Flare unt		Valve cap		Pressure port cap		Valve needle		Pressure port	
Valve	Wrench [mm(inch)]	N·m(lbf·ft)	Wrench [mm(inch)]	N·m(lbf·ft)	Wrench [mm(inch)]	N·m(lbf·ft)	Wrench [mm(inch)]	N·m(lbf·ft)	Wrench [mm(inch)]	N·m(lbf·ft)
1/4"	17(0.6)	18(13.2)	23(0.9)	20(14.7)	18(0.7)	16~18 (11.8~13.2)	Allen (hex.) 5(0.2)	9(6.6)	-	0.34(0.25)
3/8"	22(0.8)	42(31.0)	23(0.9)	20(14.7)	18(0.7)	16~18 (11.8~13.2)	Allen (hex.) 5(0.2) 9(6.6)		-	0.34(0.25)
1/2"	26(1.0)	55(40.5)	29(1.1)	40(29.5)	18(0.7)	16~18 (11.8~13.2)	Allen (hex.) 13(9.6)		-	0.34(0.25)
5/8"	29(1.1)	65(47.9)	29(1.1)	40(29.5)	18(0.7)	16~18 (11.8~13.2)	Allen (hex.) 5(0.2)	13(9.6)	-	0.34(0.25)
3/4"	36(1.4)	100(73.7)	38(1.5)	40(29.5)	18(0.7)	16~18 (11.8~13.2)	Allen (hex.) 5(0.2)	13(9.6)	-	0.34(0.25)

 \gg In case welding the pipe, the gas nitrogen must be blown into the parts.

Performing leak test & insulation

Leak Test

LEAK TEST WITH NITROGEN (before opening valves)

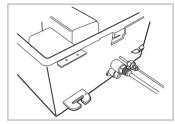
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R410A, it 's responsible of installer to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 30 bar (gauge).

LEAK TEST WITH R410A (after opening valves)

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



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



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

Insulation

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

To avoid condensation problems, place T13.0 (1/2") or thicker Acrylonitrile Butadiene Rubber around each refrigerant pipe.

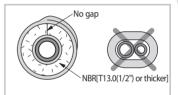


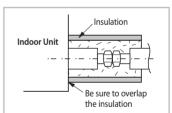
Always make the seam of pipes face upwards.

- 2. Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.
- 3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 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 CAUTION unit maintenance or removing it completely.



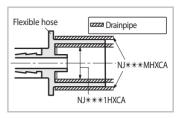


* Must fit tightly against body without any

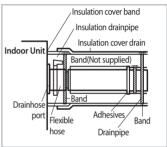
Drainpipe and drain hose installation

Care must be taken when installing the drainpipe and drain hose for the indoor unit so that condensate water is drained correctly outside.

- 1. Fix the flexible hose to the drainpipe.
 - -The connection port of the flexible hose and PVC drainpipe must be fixed with PVC adhesives.
 - Check out that the connected part doesn't leak.
 - Drain pipe type: VP20(NJ***1HXCA), VP25(NJ***MHXCA)
- 2. Connect the flexible hose to the flexible hose port.
 - Make sure that a rubber ring is installed on the drain hose port.
- 3. Install the drainpipe as shortly as possible.
 - Give a slightly slant to the drainpipe for proper drainage of condensate water.
 - -There must be no gap on the connected part so that the drainpipe is not separated from the flexible hose.
- 4. Insulate the drainpipe, and then fix it as indicated.



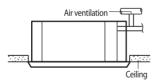






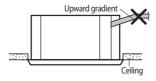
Check that the indoor unit is level with the ceiling by using the leveler.

Install air ventilation to drain condensate water smoothly.

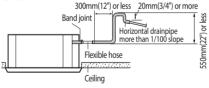


Do not give the hose and upward gradient after the connection port.

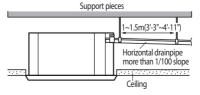
This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



If it is necessary to increase the height of the drainpipe, install the drainpipe straightly within 300mm(12") from the flexible hose port. If it is raised higher than 550mm(22"), there can be water leaks.



Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



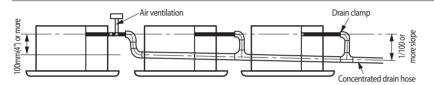
Lift-up drain piping

If it is necessary to increase the height of the drain hose somewhat, install a lift-up drain piping.

- Connect a lift-up drain pipe top to the drain hose with an adhesive for PVC. 1.
- 2. Wrap the insulation drain with a vinyl tape.
- Connect the lift-up drain pipe to the indoor unit drain hose with an adhesive for PVC. 3.
- Turn the lift-up drain piping, then adjust the height. 4.
 - If it is raised higher than 550mm(22"), there can be water leaks.



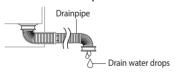
If a concentrated drain hose is installed, refer to the figure below.



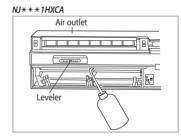
Testing the Drainage

You should test drainage after completing the installation. Prepare a little water about 1.0 liter.

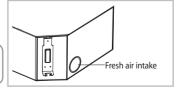
- 1. Open the cover water supply intake.
- 2. Pour water into the water supply intake.
- 3. Operate the unit in the Cool mode and check a drain pump pumping.
- Check drain water drops at the end of the drainpipe.



- 5. Make sure there is no water leak at the drainage.
- When you finished the test, close the coverside.







* New refreshed air is flowing from outside towards indoor unit through the hole.



When maintaining the air conditioner, remove condensate water CAUTION remained in the drain pan by using a drain port for maintenance.

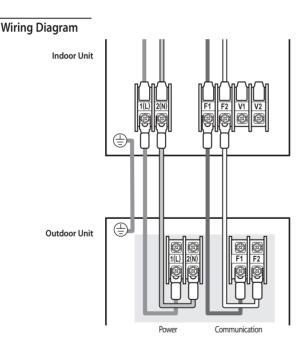
Connecting the connection cord



- 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.
- 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.



Size of the cables used to interconnect the indoor and outdoor units.

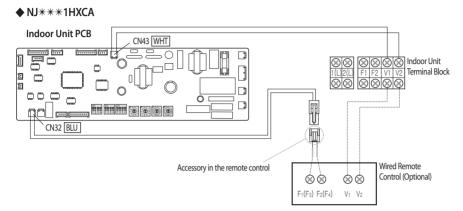
Indoor-Outdoor units Power (±10%)		Power cable	Max. Length
Power supply	208-230V~, 60Hz	1.0 mm ² (0.001in ²) or more, 3 wires	1Km(3280ft)
Net weight	-	1.0 mm ² (0.001in ²) or more, 2 wires	1Km(3280ft)

米 Cable H07 RN-F

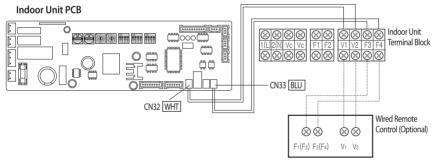
Wiring wired remote control (optional)

Connect the power cable, which is connected with the outdoor unit and supplied by another source, making sure that the power cable terminal should not be changed.

The F3 and F4 communication cable may be cross-connected, however, it is recommended that they are connected to the corresponding F3 and F4 terminal.





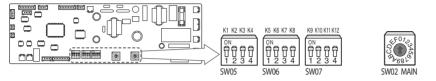


>> Dashed lines(cables) are not supplied as accessories.

Assigning address to indoor unit

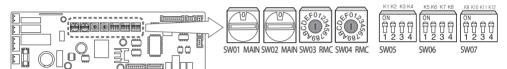
- Before installing the Unidad interior, assign an address to the Unidad interior according to the air conditioning system plan.
- 2. The address of the Unidad interior is assigned by adjusting MAIN(SW02).

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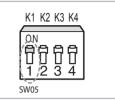
♦ NJ***MHXCA



- The MAIN address is for communication between the Unidad interior and the Unidad exterior. Therefore, you must set it to operate the air conditioner properly.
- 4. It is required to set the RMC address if you install the wired remote control and/or the centralized control.
- If you install optional accessories such as the wired remote control, centralized control, etc. see an appropriate installation manual.
- If an optional accessory is not installed, you do not have to set the RMC address. However, adjust K1 and K2 switches of the SW04(SW05) DIP switch to "ON" position in this case.

Additional functions

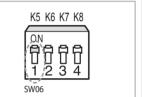
No.		Function	ON	OFF
	K1	Wired remote controller	Disuse	Use
SW05	K2	Centralized controller	Disuse	Use
	К3	-	-	-
	K4	-	-	-



Heating mode : Setting temperature compensation value = 0°C Thermo OFF → Fan OFF

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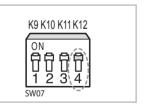
No.		Function	ON	OFF	
SW06	K5	Indoor Temperature Compensation for Heating Mode	+2°C(3.6°F)	+5°C(9°F)	
	K6	Filter time	1000 hours	2000 hours	
	K7	-	-	-	
	K8	-	-	-	



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No.		Function	ON	OFF	
	K5	Indoor Temperature Compensation for Heating Mode	+5°C(9°F)	+2°C(3.6°F)	
SW06	K6	Filter time	1000 hours	2000 hours	
	K7	-	-	-	
	K8	-	-	-	

No.		Function	ON	OFF	
	K9	-	-	-	
CMOZ	K10	-	-	-	
SW07	K11	External control	Disuse	Use	
	K12	External control output	Thermo ON	Operation ON	



米 K1 OFF

Installing the safety net & air blocking kits

(Only for NJ***MHXCA)

Safety net

Install the safety net after installing the connection cord and fixing electric component box cover. For your safety, you must install the safety net.

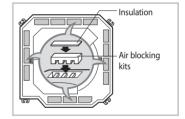
For details about installing the panel, refer to the manual for the panel.

- 1. Uncover the wrap of safety net.
- Fix the safety net to the electric component cover box with four screws as indicated.



Air blocking kits

 When installing the unit depending on the situation, you can fill up the air outlet(s) with one or two (max.) air blocking kits (not supplied).
 Then install the insulation to block air completely. If the humidity goes over 65%, do not block more than 2 air blocking kits.



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 indoor unit

♦ LED Display

		Indica	tors				
		Blue	Green	425			_
Abnormal conditions	NJ***1HXCA	(1)		(1)	(%)		Operating
	NJ***MHXCA	(h)	*	(£)	<i>‰</i>		
Power reset		•	Х	Х	Х	Х	
Error of temperature sensor	in indoor unit (OPEN/SHORT)	Х	Х	•	Х	Х	
Error of heat exchanger sens Error of heat exchanger OUT Error of outlet temperature s (OPEN/SHORT): For heat pur	sensor in indoor unit sensor in indoor unit	•	Х	•	Х	Х	
Error of mixed operation		Х	•	Х	•	Х	
Error of indoor fan motor: Be	elow 450RPM for 15 minutes	Х	Х	Х	•	Х	
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor			Х	Х	•	Х	
No communication for 2 minutes between indoor unit and outdoor unit (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 outdoor unit due to the mismatching of the communication			Х	•	•	Х	Error of indoor unit: Displayed on the indoor unit regardless of operation
tracking (communication	mbers after completion of error for more than 2 minutes)						
 2nd detection of refrigerant completely leak 2nd detection of high temperature COND 2nd detection of high temperature DISCHARGE Compressor down due to 6th detection of freezing 			X	•	•	•	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
Error of float switch			Х	Х	•	•	
Error of setting option switches for optional accessories			Х	•	Х	•	
EEPROM error			Х	•	•	Х	
EEPROM option error		•	•	•	•	•	

On Flickering X Off

^{*} If you turn off the air conditioner when the LED is flickering, the LED is also turned off.

