Air conditioner

Installation manual

AM***FN*D** / AM***JNM** / AM***MN*D**/
AM***RNMD**

- Thank you for purchasing this Samsung air conditioner.
- Before operating this unit, please read this user manual carefully and retain it for future reference.

SAMSUNG

Contents -

Safety precautions	3
Accessories	5
Selecting the installation location	6
Indoor unit installation	20
Purging the unit	21
Connecting the refrigerant pipe	21
Cutting/flaring the pipes	23
Performing leak test & insulation	24
Connecting the refrigerant pipe Cutting/flaring the pipes Performing leak test & insulation Drain pipe and drain hose installation	26
Wiring work	30
Setting an indoor unit address and installation option	33
Setting temperature control of discharge air	44
Final check and trial operation	44
Providing information for user	4
Troubleshooting	4
Adjusting air flow	47
TroubleshootingAdjusting air flowExtending the power cable	54

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 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.
- ♦ 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
- ◆ 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.
- ◆ 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.

Safety precautions

◆ 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.



- ♦ 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 control, 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 indoor unit. The type and quantity may differ depending on the specifications.

₩ Only AM018JNMPCH/AA include the last four accessories.

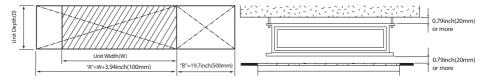
Insulation cover	Thermal insulation A (use for refrigerant pipe)	Thermal insulation B (use for refrigerant pipe)	Thermal insulation (use for drain hose)
User's manual	Installation manual	Flexible hose clamp	Grommet
Cable tie	Flexible hose	Reducer	
NIPPLE-CONNECTOR (3/8"→1/4")	NIPPLE-CONNECTOR (5/8"→1/2")	FASTENER-NUT FLARE (1/4")	FASTENER-NUT FLARE (1/2")
ā		₿	(3)

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 T0.39"(10) or thicker insulation. Otherwise, there can be air leak or dew from the connection part.
- Rigid wall without vibration.
- Where it is not exposed to direct sunshine.
- Where the air filter can be removed and cleaned easily.

Space requirements for installation & service

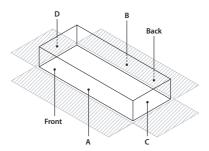
- Construction Standard for Inspection Hole.
 - 1) In case, the ceiling is textile, Inspection hole dose not need.
 - 2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
 - a. Height is more than 1.64ft(0.5m): Only "B" [Inspection for PBA] is applied.
 - b. Height is less than 1.64ft(0.5m): Both "A" & "B" are applied.
 - c. "A" & "B" are inspection holes.



- You must have 0.79inch (20mm) 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 7.3~8.3ft(2.2~2.5m) from the ground, if the unit has a duct with a well defined lenght (11.81inch(300mm) or more), to avoid fan motor blower contact.

Insulation Guide

- Insulate the end of the pipe and some curved area by using separate insulator.
- Insulate the discharge and suction part at the same time when you insulate connection duct.
- If the humidity is over 80%, it is required to add 0.39inch(10mm) polyethylene foam or other similar insulation to the indoor unit when installing belt or pipe type indoor unit on the ceiling.

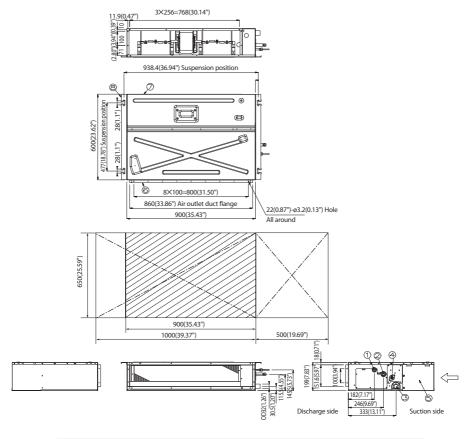


Thickness:more than 0.39inch (10mm)

ı	ndoor unit	А	В	С	D	Front	Back
	007/*009*/*012* 35.43"x7.83"23.62" (900x199x600)	35.43"×23.62" (900x600)	35.43"×23.62" (900x600)	23.62"×7.87" (600x200)	23.62"×7.87" (600x200)		
Slim Duct AM*FNLD*	*018*/*024* 43.31"x7.83"x23.62" (1100x199x600)	43.31"×23.62" (1100x600)	43.31"×23.62" (1100x600)	23.62"×7.87" (600x200)	23.62"×7.87" (600x200)		
	030/*036*/*048* 51.18"x11.61"27.17" (1300x295x690)	51.18"×27.17" (1300x690)	51.18"×27.17" (1300x690)	27.17"×11.81" (690x300)	27.17"×11.81" (690x300)		
	018/*024* 35.43"×18.90"x10.24" (900x480x260)	35.43"×18.90" (900x480)	35.43"×18.90" (900x480)	18.90"×10.24" (480x260)	18.90"×10.24" (480x260)		
MSP Duct AM*FNMD*	*030*/*036* 45.28"×18.90"x12.60" (1150x480x320)	45.28"×18.90" (1150x480)	45.28"×18.90" (1150x480)	18.90"×12.60" (480x320)	18.90"×12.60" (480x320)		
	048 47.24"x25.59"×14.17" (1200x650x360)	47.24"×25.59" (1200x650)	47.24"×25.59" (1200x650)	25.59"×14.17" (650x360)	25.59"×14.17" (650x360)		
HSP Duct AM*FNHD*	*036*/*048* 47.24"x25.59"×14.17" (1200x650x360)	47.24"×25.59" (1200x650)	47.24"×25.59" (1200x650)	25.59"×14.17" (650x360)	25.59"×14.17" (650x360)		
MSP Duct AM*JNMD* AM*JNMP*	*D*:*007*/*009*/ *012*/*015*/*018* *P*:*006* 45.28"×18.90"x12.60" (1150x480x320)	45.28"×18.90" (1150x480)	45.28"×18.90" (1150x480)	18.90"×12.60" (480x320)	18.90"×12.60" (480x320)	Insulate t and bad in prope the sam when ins	ck side r size at le time sulating
(Drain pump built-in)	*P*:*018*/*028*/ *042* 47.24"x25.59"×14.17" (1200x650x360)	47.24"×25.59" (1200x650)	47.24"×25.59" (1200x650)	25.59"×14.17" (650x360)	25.59"×14.17" (650x360)	the sucti and dise due	charge
HSP Duct AM*JNHD* (Drain pump built-in)	*024*/*027*/*030*/ *036*/*048*/*054* 47.24"x25.59"×14.17" (1200x650x360)	47.24"×25.59" (1200x650)	47.24"×25.59" (1200x650)	25.59"×14.17" (650x360)	25.59"×14.17" (650x360)		
Duct S AM*MNMD* (Drain pump built-in)	*007*/*009*/ *012*/015*/*018* 33.46x27.56x9.84 (850x700x250)	33.46"x27.56"	33.46"x27.56"	27.56"x9.84"	27.56"x9.84"		
Duct S AM*RNMD* (Drain pump built-in)	*006* 33.46x27.56x9.84 (850x700x250)	(850x700)	(850x700)	(700x250)	(700x250)		
Duct S AM*MNHD* AM*RNMD*	*018*/*024*/ *027*/*030* 47.24x27.56x9.84 (1200x700x250)	47.24"x27.5" (1200x700)	47.24"x27.5" (1200x700)	27.56"x9.84" (700x250)	27.56"x9.84" (700x250)		
(Drain pump built-in)	*036*/*048* 51.18*27.56*11.81 (1300x700x300)	51.18"x27.56" (1300x700)	51.18"x27.56" (1300x700)	27.56"x11.81" (700x300)	27.56"x11.81" (700x300)		

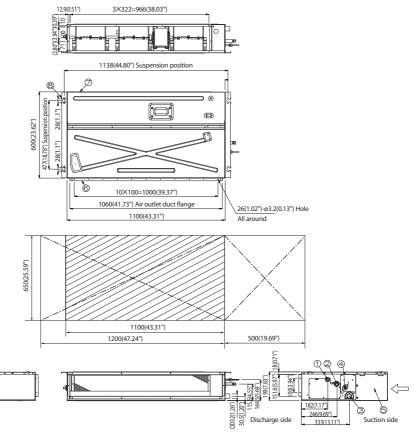
AM007/009/012FNLD***

Unit: mm(inch)



No.	Name	Description
1	Liquid pipe connection	ø6.35 (1/4")
2	Gas pipe connection	ø12.70 (1/2")
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	
6	Power supply connection	
7	Air discharge grille flange	
8	Hook	ø9.52(3/8") or M10

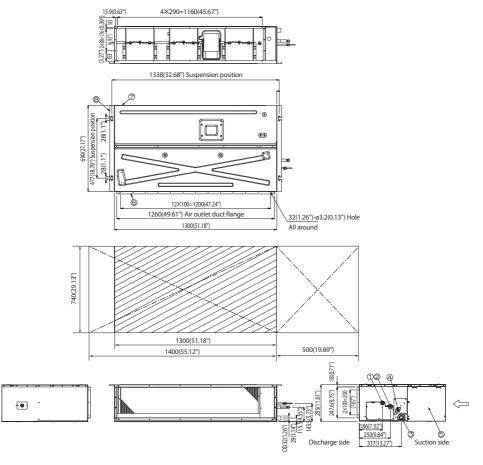
· 🚳 ·



No.	Name	Description
1	Liquid pipe connection	*018**:ø6.35(1/4") ,*024**:ø9.52(3/8")
2	Gas pipe connection	*018**:ø12.7(1/2") ,*024**:ø15.88(5/8")
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	
6	Power supply connection	
7	Air discharge grille flange	
8	Hook	ø9.52(3/8") or M10

AM030/036/048FNLD***

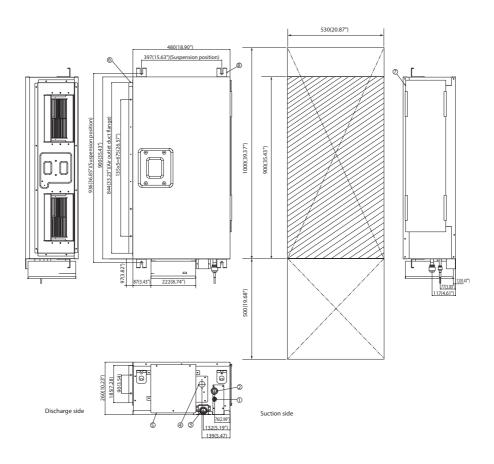
Unit: mm(inch)



No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø15.88 (5/8")
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	-
6	Power supply connection	-
7	Air discharge grille flange	
8	Hook	ø9.52(3/8") or M10

AM018/024FNMD***

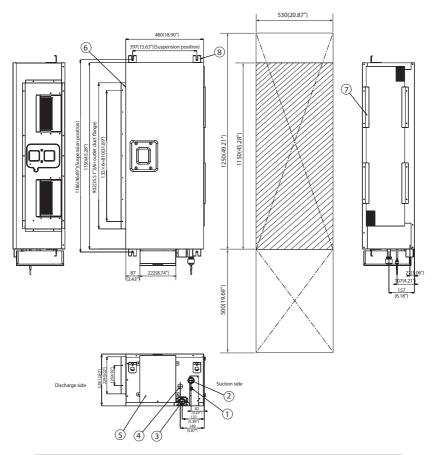
Unit:mm(inch)



No.	Name	Description
1	Liquid pipe connection	*018**:ø6.35(1/4") ,*024**:ø9.52(3/8")
2	Gas pipe connection	*018**:ø12.7(1/2") ,*024**:ø15.88(5/8")
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Suction flange	-
8	Hook	ø9.52(3/8") or M10

AM030/036FNMD***

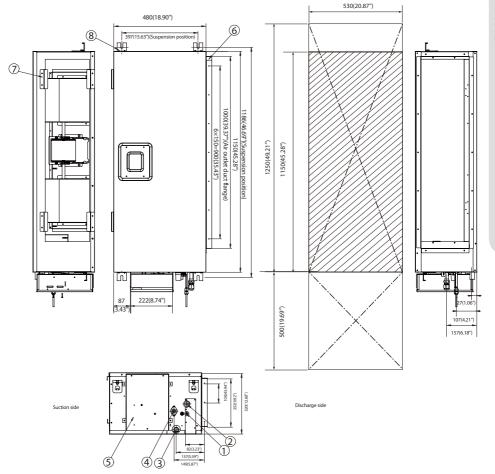
Unit: mm(inch)



No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø15.88 (5/8″)
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52(3/8") or M10

AM007/009/012/015/018JNMD*** AM006JNMP*** (Drain pump built-in)

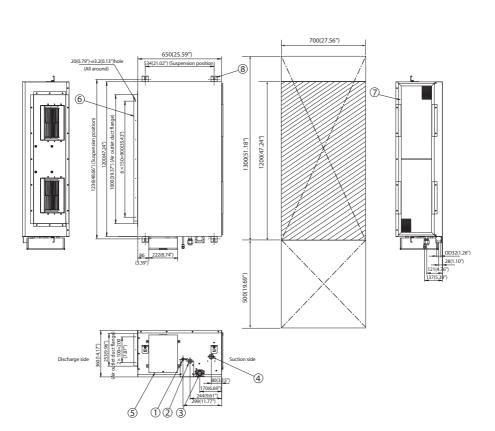
Unit:mm(inch)



No.	Name	Description
1	Liquid pipe connection	ø6.35(1/4")
2	Gas pipe connection	ø12.70 (1/2")
3	Drain pipe connection(Without drain pump)	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection(With drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52(3/8") or M10

Unit: mm(inch)

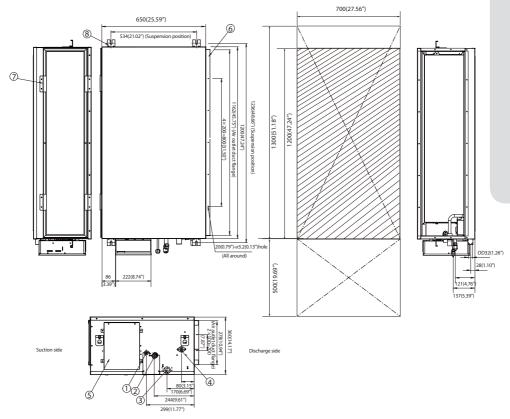
AM048FNMD ***
AM036/048FNHD ***



No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8")
2	Gas pipe connection	ø15.88 (5/8")
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection (Option drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	
6	Air discharge grille flange	
7	Suction flange	
8	Hook	ø9.52(3/8") or M10

Unit: mm(inch)

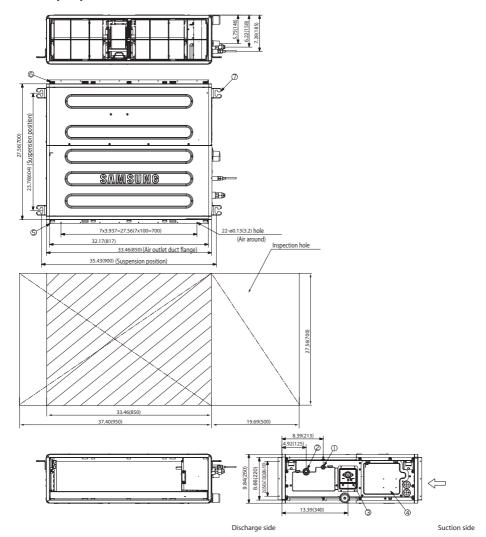
AM024/027/030/036/048/054JNHD *** AM018/028/042JNMP *** (Drain pump built-in)



No.	Name	Description
1	Liquid pipe connection	ø9.52(3/8") (★018JNMP★: ø6.35(1/4"))
2	Gas pipe connection	ø15.88(5/8") (**018JNMP*: ø12.70(1/2"))
3	Drain pipe connection(Without drain pump)	3/4"(ODØ1.05"(26.67))
4	Drain pipe connection(With drain pump)	3/4"(ODØ1.05"(26.67))
5	Power supply/Communication connection	-
6	Air discharge grille flange	-
7	Suction flange	
8	Hook	ø9.52(3/8") or M10

AM007/009/012/015/018MNMD ***
AM006RNMD ***
(Drain pump built-in)

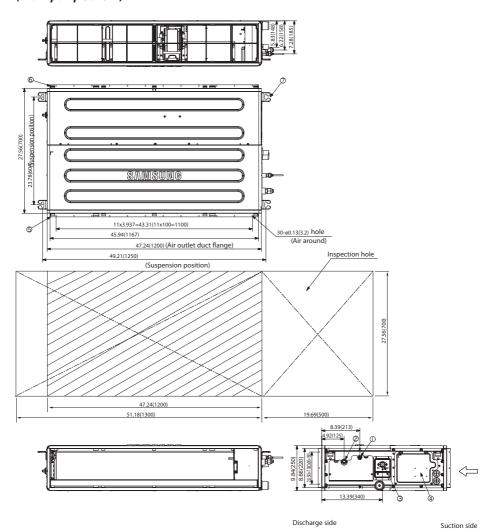
Unit:inch(mm)



No.	Name	Description
1	Liquid pipe connection	ø1/4"(6.35)
2	Gas pipe connection	ø1/2"(12.70)
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

Unit:inch(mm)

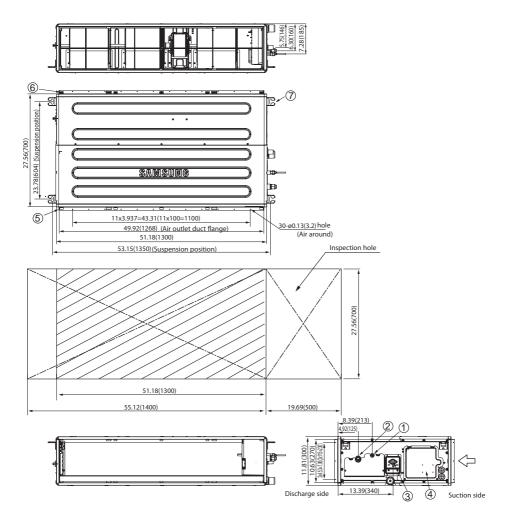
AM024/027/030MNHD ***
AM018RNMD ***
(Drain pump built-in)



No.	Name	Description
1	Liquid pipe connection	*018**:ø1/4"(6.35), *024/027/030**: ø3/8"(9.52)
2	Gas pipe connection	*018**:ø1/2"(12.70), *024/027/030**:ø5/8"(15.88)
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

AM036/048MNHD ***
(Drain pump built-in)

Unit: inch(mm)



No.	Name	Description
1	Liquid pipe connection	ø3/8"(9.52)
2	Gas pipe connection	ø5/8"(15.88)
3	Drain pipe connection	3/4"(ODØ1.05"(26.67))
4	Power supply connection	
5	Air discharge flange	
6	Air filter	
7	Hook	M8~M10

Indoor unit installation

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

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

Note

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

 \triangle

- 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 4.92ft(1.5m), it is required to prevent vibration
- ◆ If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.
- **4** Screw eight nuts to the suspension bolts making space for hanging the indoor unit.

⚠

- ◆ You must install the suspension bolts more than four when installing the indoor unit.
- 5 Hang the indoor unit to the suspension bolts between two nuts.

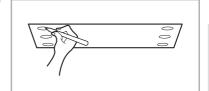
Mote

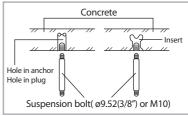
Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

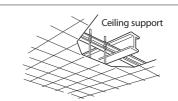
- 6 Screw the nuts to suspend the unit.
- 7 Adjust level of the unit by using measurement plate for all 4 sides.

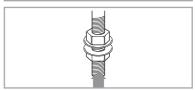
Moda

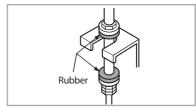
For proper drainage of condensate, give a 'A' slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.

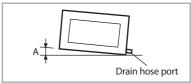










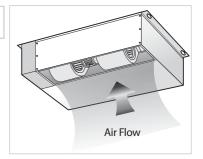


Unit	Α
Slim Duct/Duct S	0.12inch (3mm)
MSP Duct HSP Duct	0.39inch (10mm)

Indoor unit installation

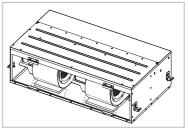


Noise will increase 3~6 dB(A) when the air flow enters from the bottom side (Only for Slim Duct Type product).





For HSP Duct (AM024/027/030/036/048JNHDCH),2 Pad-Cushion should be removed before installing air conditioner.



Purging the unit

On delivery, the indoor unit is loaded with inert gas.
All this gas must therefore be purged before connecting the assembly piping. To purge the inert gas, proceed as follows.

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

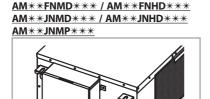
Result: All inert gas escapes from the indoor unit.

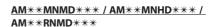
Moto

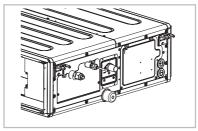
To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.











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

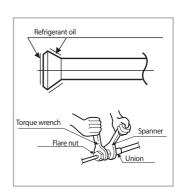
Connecting the refrigerant pipe

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 & has no dust.

The connection procedure for the refrigerant pipes varies according to the exit position of the pipes from the indoor unit, as seen when facing the indoor in the "A" side.

- ◆ Liquid refrigerant port
- Gas refrigerant port
- Drain hose port



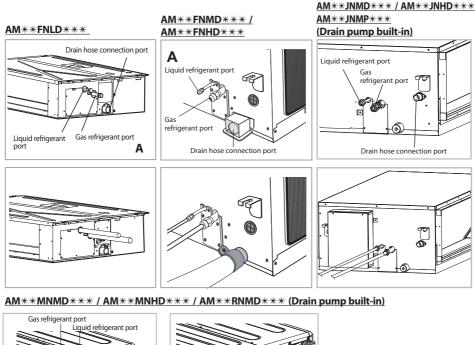
Connecting the refrigerant pipe

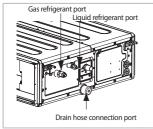
1 Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.

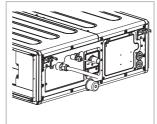
Outer Di	ameter	Torque			
mm	nm inch N•m		lbf•ft		
6.35	1/4	14~18	10.3~13.3		
9.52	3/8	34~42	25.1~31.0		
12.7	1/2	49~61	36.1~45.0		
15.88	5/8	68~82	50.2~60.5		

Must apply refrigerant oil on the flaring area to prevent a leak.

Be sure that there must be no crack or kink on the bended area.







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

Cutting/flaring the pipes

- Make sure that you prepared 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. There are some examples of correctly and incorrectly cut edges below.



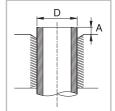






3 To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.





4 Carry out flaring work using flaring tool as shown below.









		P.P.								
		Depth of flaring part (A)								
Outer diameter (D)		Using fla	ring tool	Usi	ng conventio	nal flaring t	ool			
		for R-410A		Clutcl	h type	Wing r	nut type			
mm	inch	mm	inch	mm	inch	mm	inch			
6.35	1/4	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08			
9.52	3/8	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08			
12.70	1/2	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08			
15.88	5/8	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08			

5 Check if you flared the pipe correctly. There are some examples of incorrectly flared pipes below.









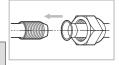


Flare shape [mm(inch)]

Inclined Damaged Surface Cracked Uneven Thickness

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

Outer di	ameter	Connection	on Torque	Flare dimension				
mm	inch	N∙m	N·m lbf·ft		inch			
6.35	1/4	14~18	10.3~13.3	8.7~9.1	0.34~0.36			
9.52	3/8	34~42	25.1~31.0	12.8~13.2	0.50~0.52	,		
12.70	1/2	49~61	36.1~45.0	16.2~16.6	0.64~0.65	8		
15.88	5/8	68~82	50.2~60.5	19.3~19.7	0.76~0.78			
19.05	3/4	100~120	73.8~88.5	23.6~24.0	0.93~0.94			





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(594.7 psig) (gauge).

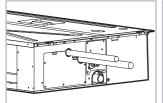
LEAK TEST WITH R410A (after opening valves)

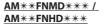
Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R410A.

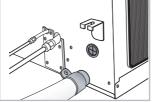


Discharge all the nitrogen to create a vacuum and charge the system.

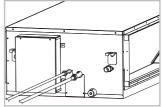
AM**FNLD***



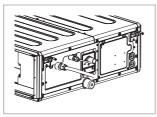




AM**JNMD*** / AM**JNHD***
AM**JNMP*** (Drain pump built-in)



AM**MNMD*** / AM**MNHD*** / AM**RNMD*** (Drain pump built-in)



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

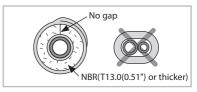
Insulation

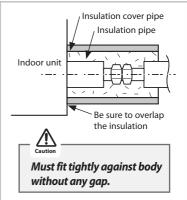
Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

 To avoid condensation problems, place T13.0(0.51") or thicker Acrylonitrile Butadien Rubber separately around each refrigerant pipe.

Mote 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 inish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 4 The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.







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

- 5 Select the insulator of the refrigerant pipe.
 - Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
 - Indoor temperature of 30°C(86°F) and humidity of 85% is the standard condition. If install in a high humidity condition, use one grade thicker insulator by referring to the table below.
 - If installing in an unfavorable conditions, use thicker one.
 - Insulator's heat-resistance temperature should be more than 120°C(248°F).

	isuate. Site at resistance temperature site and set more than 120 etc. 19.								
a			Insu	lation Type					
		oi=o	Gen	eral	High h	numidity			
Pipe	Pipe	size	[30°C(86	°F), 85%]	[30°C(86°F), over 85%]	Remarks		
				EPC	M, NBR				
	mm	inch	mm	inch	mm	inch			
Liquid	6.35 ~ 9.52	1/4~3/8	9	3/8	9	3/8			
pipe	12.7 ~ 50.80	1/2~2	13	1/2	13	1/2			
	6.35	1/4	13	1/2	19	3/4	Heating resisting		
Gas	9.52 ~ 25.40	3/8~1	19	3/4	25	1	temperature over 120°C(248°F)		
pipe	28.58 ~ 44.45	1 1/8~1 3/4	19	3/4	32	1 1/4	120 0(2.0.7)		
	50.80	2	25	1	38	1 1/2			

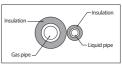
- When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.
 - <Geological condition>
 - High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand.)
 - <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.

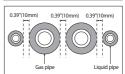
Refrigerant pipe before EEV kit and MCU or without EEV kit and MCU

- You can contact the gas side and liquid side pipes but the pipes should not be pressed.
- When contacting the gas side and gas side pipe, use 1 grade thicker insulator.

Refrigerant pipe after EEV kit and MCU

- Install the gas side and liquid side pipes, leave 10mm of space.
- When contacting the gas side and liquid side pipe, use 1 grade thicker insulator.



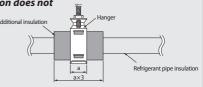


Performing leak test & insulation



- Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.
- Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.
- Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.

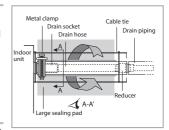
 Additional insulation
- Add the additional insulation if the insulation plate gets thinner.



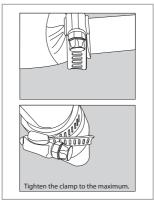
Drain pipe and drain hose installation

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 or left side of the base pan.

- 1 Install the drain hose as short as possible.
- note ◆ In order to discharge condensation water, the drain hose should keep tilted.
 - Secure the drain hose with the cable-tie not to be separated from the unit
 - ◆ The drain pump connection port is used when using a drain pump.



- When there is no draining pump, insulate the drain hose and then fix it as a picture.
- note ◆ 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.)
- While using draining pump, insulate the drain hose with heat insulating material according to the figure.
- note ◆ Check if the rubber ring is installed properly on the draining pump.
 - Check if the drain cap blocks the outfall of drain pan properly.

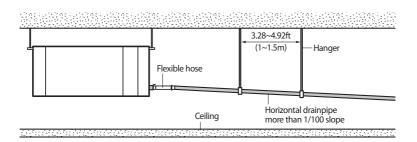


Drain pipe and drain hose installation

Drainpipe Connection

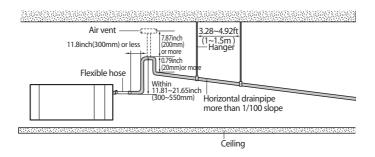
Without the drain pump

- Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 3.28~4.92ft(1~1.5m).
- 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 11.81inch(300mm) to 21.65inch(550mm) from the flexible hose and then lift down 0.79inch(20mm) or more.
- 2 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of $3.28\sim4.92ft(1.0\sim1.5m)$.
- 3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.
 - Note: 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.

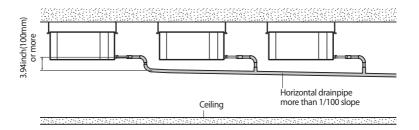


Drain pipe and drain hose installation

Centralized Drainage

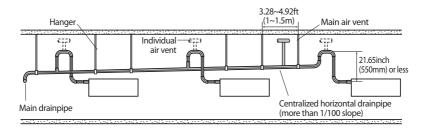
Without the drain pump

- 1 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 3.28~4.92ft(1~1.5m).
- 2 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.



With the drain pump

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



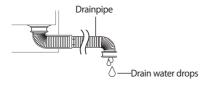
Testing the drainage

Prepare a little water about 2 liters.

- 1 Loosen screws and take out the side cover plate.
- **2** Pour water into the the indoor unit as shown in figure.

Drainage test should be done after installation has been finished. To avoid water overflow from the indoor unit because the drain tube is blocked.

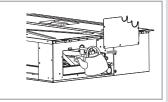
- 3 Confirm that the water flows out through the drain hose.
- 4 When the drain pump is installed, operate the unit as cooling mode and check a drain pump pumping.
- 5 Check drain water drops at the end of the drain pipe.



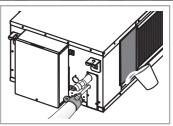
- 6 Make sure there is no water leak at the drainage.
- **7** Reinstall the side cover plate.

AM**FNLD***

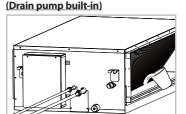




AM**FNMD*** / AM**FNHD***

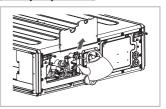


 $\frac{\text{AM}**J\text{NMD}***/\text{AM}**J\text{NHD}***}{\text{AM}**J\text{NMP}***}$



AM**MNMD***/AM**MNHD***
/AM**RNMD***

(Drain pump built-in)



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

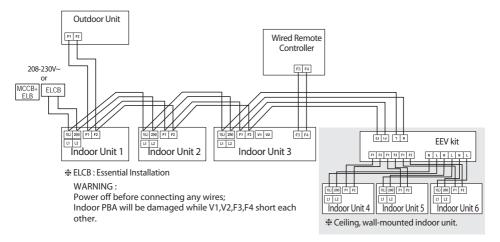
Wiring work

Power and communication cable connection

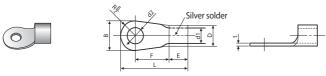
- 1 Before wiring work, you must turn off all power source.
- 2 Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.

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



				3	[)	d		Е	F	L	d	2	t					
dir	Norminal mensions for able (inch²)	Norminal dimensions for screw (inch)	Standard dimension (inch)	Allowance (inch)	Standard dimension (inch)	Allowance (inch)	Standard dimension (inch)	Allowance (inch)	Min.	Min.		Standard dimension (inch)		Min.					
	0.0023	0.16	0.26	±0.0079	0.13	+0.012	0.067	±0.0079	0.16	0.24	0.63	0.17	+0.0079	0.028					
	0.0025	0.16	0.31	10.0079	0.13	-0.0079	0.007	±0.0075	0.10	0.24	0.05	0.17	0	0.020					
	0.0039	0.16	0.26	10.0070	0.17	+0.012	0.091	±0.0079	0.24	0.24	0.69	0.17	+0.0079	0.031					
	0.0039	0.16	0.33	1 ±0.0079	±0.0079	±0.0079 0.17 -0.0	±0.00/9 0.17	0.17 -0.	-0.00	-0.007	-0.0079	0.091	±0.0079	0.24	0.24	0.69	0.17	0	0.031
	0.0062	0.16	0.37	±0.0079	0.22	+0.012 -0.0079	0.134	±0.0079	0.24	0.20	0.79	0.17	+0.0079	0.035					

Specification of electronic wire

Power supply	МССВ	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 253V	ХА	X A, 30mA	0.0039inch ²	0.0039inch ²	0.0012~0.0023inch ²
Min : 187V		0.1 sec	(2.5mm ²)	(2.5mm ²)	(0.75~1.5mm ²)

◆ Decide the capacity of ELCB(or MCCB+ELB) by below formula.

The capacity of ELCB(or MCCB+ELB) $X[A] = 1.25 \text{ X } 1.1 \text{ X } \Sigma \text{Ai}$

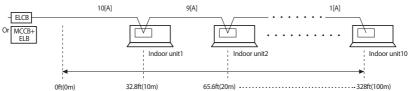
- *X: The capacity of ELCB(or MCCB+ELB).
- * Σ Ai : Sum of Rating currents of each indoor unit.
- * Refer to each installation manual about the rating current of indoor unit.
- ◆ Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^{n} \frac{\text{Coefx35.6xLkxik}}{1000 \times \text{Ak}} > 10\% \text{ of input voltage[V]}$$

- * coef: 1.55
- * Lk: Distance among each indoor unit[m(ft)], Ak: Power cable specification[mm² (inch²)] ik: Running current of each unit[A]

Example of Installation

- Total power cable length L = 328ft(100m), Running current of each units 1[A]
- Total 10 indoor units were installed



◆ 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.



Wiring work(Cont.)

* Rating current

Unit	Model	Rating current	Unit	Model	Rating current	Unit	Model	Rating current
AM*FNLD*	*007*	0.32A	AM*FNMD*	*018*	1.40A	AM*JNMD*	*007*	0.24A
	009	0.40A		*024*	1.50A		*009*	0.24A
	012	0.51A		*030*	1.50A		*012*	0.26A
	018	0.94A		*036*	1.60A		*015*	0.32A
	024	0.98A		*048*	2.45A		*018*	0.40A
	030	0.80A	AM*RNMD*	*006*	0.25A	AM*JNHD*	*024*	0.93A
	036	1.05A		*018*	0.65A		*027*	0.95A
	048	1.40A					*030*	1.11A
			AM*FNHD*	*036*	1.47A		*036*	1.29A
			741111111111111111111111111111111111111	*048*	2.38A		*048*	1.76A
							054	2.10A
AM*MNMD*	*007*	0.25A	AM*MNHD*	*024*	0.81A	AM*JNMP*	*006*	0.24A
	009	0.25A		*027*	0.87A		*018*	0.40A
	012	0.26A		*030*	0.92A		*028*	0.95A
	015	0.30A		*036*	1.13A		*042*	1.52A
	018	0.65A		*048*	1.84A			



- 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[≥1/8"(3mm)].
- ♦ You must keep the cable in a protection tube.
- ♦ Keep distances of 2"(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.

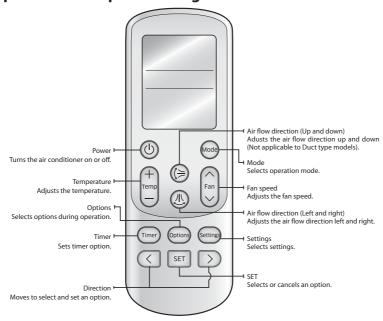
Tightening torque								
M3.5	0.8~1.2 N·m	0.59~0.89 lbf·ft						
M4	1.2~1.8 N·m	0.89~1.33 lbf·ft						

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.

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	Х	Χ	Χ	Х	Χ
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	Х	Χ	Χ	Χ	Х	3	Х	Х	Χ	Х	Х

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

Setting an indoor unit address and installation option (Cont.)

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

Option setting	Status
12. Setting Cool mode Mode Press Mode button to be change to Cool mode in the OFF status.	off Cool
13. Setting SEG16, SEG17 option Press Low Fan button(∨) to enter SEG16 value. Press High Fan button(∧) to enter SEG17 value. Each time you press the button, □→□→⋯□→□ will be selected in rotation.	orr Cool orr Cool SEG16 SEG17
14. Setting Dry mode Mode Press Mode button to be change to Dry mode in the OFF status.	or Dry
15. Setting SEG18, SEG20 option Press Low Fan button(∨) to enter SEG18 value. Press High Fan button(∧) to enter SEG20 value. Each time you press the button, □→□→□→□ will be selected in rotation.	Orr Dry Orr Dry SEG18 SEG20
16. Setting Fan mode Press Mode button to be change to Fan mode in the OFF status.	orr The Fan
17. Setting SEG21, SEG22 option Press Low Fan button(\lor) to enter SEG21 value. Press High Fan button(\land) to enter SEG22 value. Each time you press the button, $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ will be selected in rotation.	orr or Fan SEG21 SEG22
18. Setting Heat mode Mode Press Mode button to be change to HEAT mode in the OFF status.	off Heat
19. Setting SEG23, SEG24 mode Press Low Fan button(\lor) to enter SEG23 value. Press High Fan button(\land) to enter SEG24 value. Each time you press the button, $\Box \to \Box \to \Box \to \Box$ will be selected in rotation.	orr Heat orr Heat SEG23 SEG24

Step 3. Check the option you have set

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



Step 4. Input option

Press operation button (b) 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-2XXXXXX-3XXXXXX

Option	SEG	1	SEG	i2	SEC	G 3	SEC	G4	SEG	i5	SEG	6
Explanation	PAG	E	Mode		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication					0	No Main address						
and Details				1	Main address setting mode	0~9	100-digit	0~9	10-digit	0~9	A unit digit	
Option	SEG	7	SEG	i8	SEG9		SEG	i10	SEG	11	SEG	12
Explanation	PAG	E			Setting RMC address				Group chai	nnel(*16)	Group a	ddress
	Indication	Details			Indication	Details			Indication	Details	Indication	Details
Indication			_		0	No RMC address	_	_				
and Details	1				1	RMC address setting mode			RMC1	0~F	RMC2	0~F



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

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

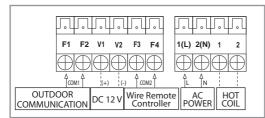
- 1. Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- 2. The panel(display) should be connected to an indoor unit to receive option.
- 3. Set the installation option according to the installation condition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

■ 02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	External room temperature sensor / Minimizing fan operation when thermostat is off	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater		EEV Step when heating stops	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output / External heater On or Off signal	-	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	-	-

- ◆ 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.)

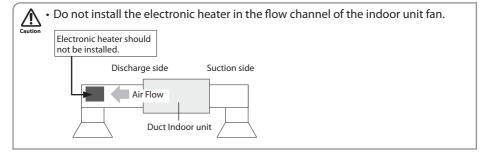
■ 02 series installation option(Detailed)

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

Option	SEG	1	SE	G2	SEG	i3		SEG4		SE	:G5	SEG6		
Explanation	PAG	E	МС	DDE	-	-		Use of external room temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		FAN RPM compensation	
Indication	Indication	Details	Indication	Details	_			Use of External room temperature sensor	Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details	
and Details						-		Disuse	Disuse			0	Disuse	
	0			2			1	Use	Disuse	0	Disuse	1	RPM compensation	
							2	Disuse	Use (*1)	1	Use	2	High ceiling	
							3	Use	Use (*1)	-			KIT	
Option	SEG	7	SE	G8	SEG	i9		SEG10		SE	G11	SI	G12	
Explanation	PAG	E	Use of dra	ain pump	Use of ho heat						hen heating ops			
	Indication	Details	Indication	Details	Indication	Details				Indication	Details			
			0	Disuse	0	Disuse				0	Default value			
			1	Use	1	Use (*2)								
Indication and Details	1			When an	2		1				Noise			
		2		indoor unit stops, drain pump will operate for 3min	1 3 Use					1	decreasing setting			

Option	SEG1	13	SEC	514	SEG15			SE	G16		SEG17	SEG18	
Explanation	PAG	E	Use of e			e output of ex nal heater On	rternal control /Off signal		-	Ві	uzzer control	Hours of filter usage	
							tails						
	Indication	Details	Indication	Details	Indication	Setting the output of external control	External heater On/Off signal				Details	Indication	Details
Indication			0	Disuse	0	Thermo on	-			0	Use buzzer	2	1000 Hour
and Details			1	ON/OFF control	1	Operation on	-		-				
	2		2	OFF control	2	-	Use (*3)				Disuse buzzer	6	2000 Hour
			3	Window ON/OFF control	3	-	Use (*3)						
Option	SEG1	19	SEC	520		SEG21		SEG22			SEG23	SEG24	
Explanation	PAG	E	Individual a remote		Heati	ng setting com	pensation	EEV Step of stopped unit during oil return/ defrost mode			-		-
	Indication	Details	Indication	Details	Indication	De	tails	Indication	Details				
			0 or 1	channel 1	0	Defa	ult (*4)	0	Default value				
Indication			2	channel 2	1	2℃	(3.6 °F)		Oil return				
and Details	3		3	channel 3	2	5 %	(0 °F)	1	or Noise decreasing		-		-
				channel 4	_	5 °C (9 °F)		in defrost mode					

- Advanced function: Controlling cooling/heating current or power saving with motion detect.
- (*1) Minimizing fan operation when thermostat is off
 - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
- (*2) 1: Fan is turned on continually when the hot water heater is turned on,
 - 3: Fan is turned off when the hot water heater is turned on with cooling only indoor unit
 - Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.
- (*3) When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.
 - 2: Fan is turned on continually when the external heater is turned on.
 - 3: Fan is turned off when the external heater is turned on with cooling only indoor unit
 - Cooling only indoor unit: To use this option, install the Mode Select switch (MCM-C200) on the outdoor unit and fix it as cool mode.
- If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote
 controller sensor to detect indoor temperature exactly.
- (*4) Default setting value
 - 4Way Cassette, Mini 4Way Cassette: 9 °F(5 °C)
 - Other indoor units: 3.6 °F(2 °C)



■ 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	i3	9	SEG4	SE	EG5	SE	:G6	1
Explanation	PAG	iΕ	MC	DDE	Use of Auto Change Over for HR only in Auto mode		Standa	etting SEG3) ard heating p. Offset	Standard o	tting SEG3) ooling temp. ffset	(When setting SEG3) Standard for mode change Heating → Cooling		
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	1
					0	Follow product option	0	0°F(0°C)	0	0°F(0°C)	0	1.8°F(1°C)	
Indication							1	0.9°F(0.5°C)	1	0.9°F(0.5°C)	1	2.7°F(1.5°C)	1
and Details	0			5			2	1.8°F(1°C)	2	1.8°F(1°C)	2	3.6°F(2°C)	
and Details	0			0		Use Auto	3	2.7°F(1.5°C)	3	2.7°F(1.5°C)	3	4.5°F(2.5°C)	
					1	Change Over for	4	3.6°F(2°C)	4	3.6°F(2°C)	4	5.4°F(3°C)	
						HRonly	5	4.5°F(2.5°C)	5	4.5°F(2.5°C)	5	6.3°F(3.5°C)	1
							6	5.4°F(3°C)	6	5.4°F(3°C)	6	7.2°F(4°C)	1
							7	6.3°F(3.5°C)	7	6.3°F(3.5°C)	7	8.1°F(4.5°C)	
Option	SEG	7	SE	:G8	SEC	5 9	SEG10		SE	G11	SE	G12	
Explanation	PAG	iΕ	Standard changing	tting SEG3) I for mode Cooling → g mode	(When setting SEG3) Time required for mode change		Compensation option for Long pipe or height diffference between indoor units						
	Indication	Details	Indication	Details	Indication	Details	Indication	Details					1
			0	1.8°F(1°C)	0	5 min.	0	Use default value					
			1	2.7°F(1.5°C)	1	7 min.		4)11.1.					
			2	3.6°F(2°C)	2	9 min.		1) Height difference ¹⁾ is					l
Indication and Details	1		3	4.5°F(2.5°C)	3	11 min.	1	more than 30m (98.4ft) or 2) Distance ²⁾ is longer than 110m(360.9ft)					
			4	5.4°F(3°C)	4	13 min.		1) Height					
			5	6.3°F(3.5°C)	5	15 min.		difference ¹⁾ is					
				7.2°F(4°C)	6	20 min.		15~30m(49.2ft					
			7	8.1°F(4.5°C)	7	30 min.	2 ~98.4ft)or 2) Distance ²⁾ i 50~110m (164.04ft~ 360.9ft)						

Option	SEG13	SEG14	SEG15	SEG16	SEG17		SEG18 ^(*3)	
Explanation						Con	trol variables when using hot wat	er / external heater
						la di assisa	Details	5
						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	2.7 °F(1.5 °C)	No delay
						4	2.7 °F(1.5 °C)	10 minutes
						5	2.7 °F(1.5 °C)	20 minutes
Indication and Details	2					6	5.4 °F(3.0 °C)	No delay
and Details						7	5.4 °F(3.0 °C)	10 minutes
						8	5.4 °F(3.0 °C)	20 minutes
						9	8.1 °F(4.5 °C)	No delay
						Α	8.1 °F(4.5 °C)	10 minutes
						В	8.1 °F(4.5 °C)	20 minutes
						С	10.8 °F(6.0 °C)	No delay
						D	10.8 °F(6.0 °C)	10 minutes
						Е	10.8 °F(6.0 °C)	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 131.2ft(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(131.23 ft) away from an outdoor unit, select the option "2".

[328-131.2=196.8ft(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

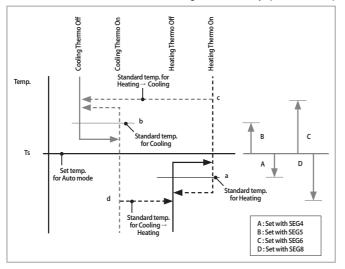
- e.g. 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 ="0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.
- e.g. 2) Setting 02 series SEG15 ="2" / Setting 05 series SEG18 ="A":

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

- External heater is turned on when the temperature is maintained as $8.1 \, ^{\circ}F(4.5 \, ^{\circ}C)$ for 10 minutes. Room temp. > set temp. + f(heating compensation temp.)
- External heater is turned off when the temperature is maintained as 8.1 °F(4.5 °C) + 1.8 °F(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	SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAG	E	MODE		The option mode you want to change		The tens' digit of an option SEG you will change				Changed value	
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication and Details	0		D		Option mode	1~6	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

Mode

- 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 an indoor unit as the main indoor unit by using the remote control, the outdoor unit automatically operates in the current mode of the main indoor unit.

Setting temperature control of discharge air

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

Final check and trial operation

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

Check the following:

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

Providing information for user

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

- 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

Mote 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 (Contiued)

			<u>LED Display</u>						
<u>Abnormal condition</u>	Error code			(I)	Sep.				
		Blue	Red		3				
Error on indoor temperature sensor (Short or Open)	E121	×	×	•	×	×			
1. Error on Eva-in sensor (Short or Open)	E122								
2. Error on Eva-out sensor (Short or Open)	E123		×		×	×			
3. Discharge sensor error (Short or Open)	E126								
Indoor fan error	E154	X	×	×	•	×			
1. Error on outdoor temperature sensor (Short or Open)	E221								
2. Error on cond sensor	E237		×	\times		×			
Error on discharge sensor Other outdoor unit sensor error that is not on the above list	E251	_			_				
When there is no communication between the indoor-outdoor units for 2 minutes	E101								
Communication error received from the outdoor unit	E102								
3. 3 miniute tracking error on outdoor unit	E202								
Communication error after tracking due to unmatching number of installed units	E201	×	×	•	•	×			
5. Error due to repeated communication address	E108								
6. Communication address not confirmed	E109								
Other outdoor unit communication error that is not on the above list									
Self diagnosis error display									
1. Error due to opened EEV (2nd detection)	E151								
Error due to closed EEV (2nd detection) Eva in sensor is detached	E152 E128	×	×	•	•	•			
4. Eva out sensor is detached	E129								
5. Thermal fuse error (Open)	E198								
1. COND mid sensor is detached	E241								
2. Refrigerant leakage (2nd detection)	E554								
3. Abnomally high temperature on Cond (2nd detection)	E450								
4. Low pressure s/w (2nd detection)	E451								
5. Abnomally high temperature on discharged air on outdoor unit	E416								
(2nd detection)									
6. Indoor operation stop due to unconfirmed error on outdoor unit	E559								
7. Error due to reverse phase detection	E425								
Comp stop due to freeze detection (6th detection) High pressure sensor is detached	E403 E301				_	_			
10. Low pressure sensor is detached	E306	×	×		•				
11. Outdoor unit copression ration error	E428								
12. Outdoor sump down_1 prevetion control	E413								
13. Compressor down due to low pressure sensor prevention control 1	E410								
14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection)	E180								
15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection)	E181								
Other outdoor unit self-diagnosis error that is not on the above list									
Flowating s/w (2nd detection)	E153	×	×	X	•	•			
EEPROM error	E162	•	•	•	•	•			
EEPROM option error	E163	•	•	•	•	•			
	E164	X	×	X	X				

Adjusting air flow

Automatic Air-Volume (AM**MNMD*** / AM**MNHD*** / AM**RNMD***)

When multi indoor units are 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.

to the rated volume flow rate automatically. SEG Used Performing the Automatic Air-Volume function. Main Menu Sub-menu 2 3 4 - 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 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 88 press button to enter a Sub-menu setting screen. 3). Press the 🔝 / 🔛 button to select 🗖 and then press button to enter a automatic air-volume setting screen. 4). Press the \(\bigcap / \subseteq \) button to select 1 to enable automatic air-volume operation. 5). Select mode No. 8.2. and set to "1". 6). Press the [set] button, then the air conditioning unit will start the fan operation for Automatic Air-Volume adjustment.

- ₩ Do not adjust the dampers during fan operation for Automatic Air-Volume adjustment.
- 7). Press button to escape setting mode.

 (During the automatic air-volume adjustment, [Main Menu] will be displayed repetitively)
- 8). 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.)

Adjusting air flow

9). 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
8	1	Automatic Air-Volume State Return	1	0	0 - OFF (Fail or Disable) 1 - Completion. 2 - Running Automatic Air-Volume.
	2	Automatic Air-Volume Operation	1	0	0 - Disable 1 - Enable



- 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.

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	Static Pr	essure	Option code
Model	InH₂O	mmAq	Option code
	0	0	010054-1254AE-201616-331110
	0.04	1	010054-1255D1-201616-331110
AM007FNLD∗	0.08	2	010054-1255D1-201616-331110
	0.16	4	010054-125904-201616-331110
	0	0	010054-121913-201C1C-331110
	0.04	1	010054-121946-201C1C-331110
AM009FNLD∗	0.08	2	010054-121946-201C1C-331110
	0.16	4	010054-121979-201C1C-331110
	0	0	010054-121946-202323-331110
	0.04	1	010054-121979-202323-331110
AM012FNLD∗	0.08	2	010054-121979-202323-331110
	0.16	4	010054-1219AC-202323-331110
	0	0	010054-1259BA-203434-331110
	0.04	1	010054-1259ED-203434-331110
AM018FNLD∗	0.08	2	010054-1259ED-203434-331110
	0.16	4	010054-125E10-203434-331110
	0	0	010054-125D2D-204848-331110
AAAAA AEAU Duk	0.04	1	010054-125E50-204848-331110
AM024FNLD∗	0.08	2	010054-125E50-204848-331110
	0.16	4	010054-125E83-204848-331110
	0	0	010054-1B5915-205A5A-331110
AAAAAAAFAU Dub	0.04	1	010054-1B5948-205A5A-331110
AM030FNLD∗	0.12	3	010054-1B599F-205A5A-331110
	0.24	6	010054-1B5AE4-205A5A-331110
	0	0	010054-1B5956-206E6E-331110
AMOSCENII Dak	0.04	1	010054-1B5989-206E6E-331110
AM036FNLD∗	0.12	3	010054-1B5AD0-206E6E-331110
	0.24	6	010054-1B5E25-206E6E-331110
	0	0	010054-1B59B9-209191-331110
AMO40ENII DW	0.04	1	010054-1B59EC-209191-331110
AM048FNLD*	0.12	3	010054-1B5E33-209191-331110
	0.24	6	010054-1B5E88-209191-331110
	0	0	010054-125571-203434-331110
	0.08	2	010054-125593-203434-331110
AM018FNMD∗	0.16	4	010054-1255C5-203434-331110
	0.24	6	010054-1255F5-203434-331110
	0.32	8	010054-125957-203434-331110
	0	0	010054-125904-204848-331110
	0.08	2	010054-125936-204848-331110
AM024FNMD*	0.16	4	010054-125979-204848-331110
	0.24	6	010054-125DF9-204848-331110
	0.32	8	010054-125DFC-204848-331110

Adjusting air flow(Contiued)

Static Pressure

MAMO3FNMD	Model		Statie i ressure		Option code			
MA036FNMD			InH ₂ O		mmAq	'		
AM046FNHD			0.24		6			
AM036FNMD+	AM030FNMD*		0.32			010054-125E02-205A5A-331110		
AM036FNHD			0.40		10	010054-125E46-205A5A-331110		
AM048FNHD			0.24	4 6		010054-125E00-206E6E-331110		
AM048FNMD ★	AM036FNM	D*	0.32	8		010054	-125E44-206E6E-33	31110
AM048FNMD Mode			0.40	10		010054-125E88-206E6E-331110		
0.40			0.24	6		010054	-125E20-209191-33	31110
AM036FNHD* 0.20 5	AM048FNM	D*	0.32		8	010054-125E43-209191-331110		
AM036FNHD			0.40	10		010054	-125E86-209191-33	31110
AM036FNHD			0.20	5		010054	-135A50-206E6E-33	31110
AM036FNHD* 0.60 15 010054-135F96-206E6E-331110 0.80 20 010054-135F96-206E6E-331110 0.40 10 010054-135F96-206E6E-331110 0.40 10 010054-135F96-206E6E-331110 0.60 15 010054-135F3A-209191-331110 0.60 15 010054-135FA3-209191-331110 0.80 20 02222-331110 0.80 20 010054-135FA3-209191-331110 0.80 20 02222-331110 0.80 20 010054-135FA3-209191-331110 0.80 20 20 20 20 20 20 20 20 20 20 20 20 20				_				
0.80 20	AM036FNH	D*	0.60					
AM048FNHD** 0.20 5								
Mode								
Mode								
Mode	AM048FNH	D*						
Mode Static Pressure		-						
Static Pressure InH20 mmAq Option code 0 <sp≤0.04< td=""> 0<sp≤1< td=""> 010054-185095- 201616-331110 010054-185096- 2010C1C-331110 010054-18506- 202323-331110 010054-1850F- 2022C2-331110 010054-185070- 203535-331110 0.12<sp≤0.20< td=""> 3<sp≤5< td=""> 010054-18548- 201616-331110 010054-18540P- 2010C1C-331110 010054-18540P- 202323-331110 0202C2C-331110 203535-331110 0.20<sp≤0.30< td=""> 5<sp≤7.5< td=""> 010054-18548E- 201616-331110 2010C1C-331110 202323-331110 202C2C-331110 203535-331110 0.30<sp≤0.40< td=""> 7.5<sp≤10< td=""> 010054-1855D1- 201616-331110 2010C1C-331110 202323-331110 202C2C-331110 203535-331110 0.40<sp≤0.50< td=""> 10<sp≤12.5< td=""> 010054-1855D1- 201616-331110 2010C1C-331110 202323-331110 202C2C-331110 203535-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-185913- 201616-331110 2010C1C-331110 202323-331110 202C2C-331110 203535-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-185913- 201616-331110 2010C1C-331110 2002323-331110 202C2C-331110 203535-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-185956- 201616-331110 <t< td=""><td></td><td></td><td>0.60</td><td></td><td>20</td><td>010054</td><td>-135FC8-209191-3</td><td>31110</td></t<></sp≤15<></sp≤0.60<></sp≤15<></sp≤0.60<></sp≤15<></sp≤0.60<></sp≤12.5<></sp≤0.50<></sp≤10<></sp≤0.40<></sp≤7.5<></sp≤0.30<></sp≤5<></sp≤0.20<></sp≤1<></sp≤0.04<>			0.60		20	010054	-135FC8-209191-3	31110
InH2O mmAq OcSP≤0.04 OcSP≤1 010054-1B5095-201616-331110 010054-1B5096-201CIC-331110 010054-1B50AP-202C2C-331110 010054-1B50FA-202C2C-331110 010054-1B550P-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5580-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110	Mod	lel	AM007JNM	DCH	AM009JNMDCH	I AM012JNMDCH	AM015JNMDCH	AM018JNMDCH
InH2O mmAq OcSP≤0.04 OcSP≤1 010054-1B5095-201616-331110 010054-1B5096-201CIC-331110 010054-1B50AP-202C2C-331110 010054-1B50FA-202C2C-331110 010054-1B550P-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5570-202C2C-331110 010054-1B5580-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5590-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-2010C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110 010054-1B5907-202C2C-331110	Static Pr	essure						
0 <sp≤0.04< th=""> 0<sp≤1< th=""> 010054-1B5095- 201616-331110 010054-1B5096- 201C1C-331110 010054-1B506A- 202323-331110 010054-1B540P- 202C2C-331110 010054-1B540P- 203535-331110 0.04<sp≤0.12< td=""> 1<sp≤3< td=""> 010054-1B5096A- 201616-331110 010054-1B506A- 201C1C-331110 010054-1B540P- 202323-331110 010054-1B540P- 202C2C-331110 010054-1B5570- 203535-331110 0.20<sp≤0.30< td=""> 5<sp≤7.5< td=""> 010054-1B55D1- 201616-331110 010054-1B554P- 201616-331110 010054-1B554P- 201616-331110 010054-1B554P- 201616-331110 010054-1B559A- 20161C-331110 010054-1B559A- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 20161C-331110 010054-1B593P- 2012C1C-331110 010054-1B593P- 2022323-331110 010054-1B593P- 20222C-331110 010054-1B599B- 203535-331110 0.50<sp≤0.00< td=""> 12.5<sp≤15< td=""> 010054-1B5913- 201616-331110 010054-1B596P- 201616-331110 010054-1B596P- 20161C-331110 010054-1B596P- 20161C-331110 010054-1B596P- 20161C-331110 010054-1B596P- 202323-331110 010054-1B596B- 2022C2-331110 010054-1B596P- 202323-331110 010054-1B596P- 2022C2-331110 010054-1B596P- 202323-331110 010054-1B596P- 2022C2-331110 010054-1B596P- 202323-331110</sp≤15<></sp≤0.00<></sp≤7.5<></sp≤0.30<></sp≤3<></sp≤0.12<></sp≤1<></sp≤0.04<>						Option code		
0 <sp≤0.04< th=""> 0<sp≤1< th=""> 201616-331110 201C1C-331110 202323-331110 202C2C-331110 203535-331110 0.04<sp≤0.12< td=""> 1<sp≤3< td=""> 010054-1850F8- 201616-331110 010054-1850F8- 201616-331110 010054-18540P- 2022323-331110 010054-18540P- 202323-331110 010054-18550P- 202323-331110 0202CC-3311110 203535-331110 0.20<sp≤0.30< td=""> 5<sp≤7.5< td=""> 010054-18549E- 201616-331110 010054-1855P1- 201616-331110 010054-1855P1- 201616-331110 010054-1855P1- 201616-331110 010054-1855P1- 201616-331110 010054-1855P1- 201616-331110 010054-18593P- 201616-331110 010054-18593P- 201616-331110</sp≤7.5<></sp≤0.30<></sp≤3<></sp≤0.12<></sp≤1<></sp≤0.04<>			010054 105	005	010054 195006	010054-1R50A6	010054 195050	010054-1B542C-
0.04 <sp≤0.12< td=""> 1<sp≤3< td=""> 010054-1B50F8- 201616-331110 010054-1B50FA- 201616-331110 010054-1B540P- 202323-331110 010054-1B544D- 203535-331110 010054-1B544D- 203535-331110 010054-1B54B- 203616-331110 010054-1B54B- 201616-331110 010054-1B54B- 201616-331110 010054-1B54B- 201616-331110 010054-1B59B- 203232-331110 010054-1B55B- 203353-331110 010054-1B55B- 203333-331110 010054-1B55B- 203323-331110 0202C2C-331110 0203535-331110 0202C2C-331110 02</sp≤3<></sp≤0.12<>	0 <sp≤0.04< td=""><td>0<sp≤1< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤1<></td></sp≤0.04<>	0 <sp≤1< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤1<>						
0.04 <ps< td=""> 1<sp≤3< td=""> 201616-331110 201C1C-331110 202323-331110 202C2C-331110 203535-331110 0.12<sp≤0.20< td=""> 3 < SP≤5</sp≤0.20<></sp≤3<></ps<>								
0.12 <sp≤0.20< td=""> 3 <sp≤5< td=""> 010054-1B544B- 201616-331110 010054-1B544D- 20161C-331110 010054-1B558C- 202323-331110 010054-1B558D- 202C2C-331110 010054-1B55BA- 203535-331110 0.20<sp≤0.30< td=""> 5<sp≤7.5< td=""> 010054-1B55D- 201616-331110 010054-1B5591- 201616-331110 010054-1B55B2- 201616-331110 010054-1B55B2- 201616-331110 010054-1B55B2- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5915- 201616-331110 010054-1B5934- 202323-331110 010054-1B5968- 202C2C-331110 010054-1B599B- 202C2C-331110 010054-1B59B- 202C2C-331110 010054-1</sp≤7.5<></sp≤0.30<></sp≤5<></sp≤0.20<>	0.04 <sp≤0.12< td=""><td>1<sp≤3< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤3<></td></sp≤0.12<>	1 <sp≤3< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤3<>						
0.12 <sp≤0.20< td=""> 3 < SP≤5</sp≤0.20<>								
0.20 < SP≤0.30	0.12 <sp≤0.20< td=""><td>3 <sp≤5< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤5<></td></sp≤0.20<>	3 <sp≤5< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤5<>						
0.20 <sp≤0.30< td=""> S<sp≤7.5< td=""> 201616-331110 201C1C-331110 202323-331110 202C2C-331110 203535-331110 0.30<sp≤0.40< td=""> 7.5<sp≤10< td=""> 010054-1855D1- 201616-331110 010054-1855E4- 201C1C-331110 010054-1855F2- 202323-331110 010054-185915- 202C2C-331110 010054-185994- 202C2C-331110 202353-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-185956- 201616-331110 010054-18595A- 201C1C-331110 010054-185967- 2022323-331110 010054-185968- 2022C2C-331110 010054-185969- 202C2C-331110 010054-185969- 202C2C-331110 010054-185969- 202C2C-331110 010054-185968- 202C2C-331110 010054-185968- 202C2C-331110 010054-185969- 202C2C-331110 010054-185968- 202C2C-331110 010054-185969- 202C2C-331110 010054-185968- 202C2C-331110 010054-185698- 202C2C-331110 010054-185968-</sp≤15<></sp≤0.60<></sp≤10<></sp≤0.40<></sp≤7.5<></sp≤0.30<>								
0.30 < SP≤0.40	0.20 <sp≤0.30< td=""><td colspan="2">0.20<sp≤0.30 5<sp≤7.5<="" td=""><td></td><td></td><td></td><td></td><td></td></sp≤0.30></td></sp≤0.30<>	0.20 <sp≤0.30 5<sp≤7.5<="" td=""><td></td><td></td><td></td><td></td><td></td></sp≤0.30>						
0.30 <sp≤0.40 0.40<sp≤0.50="" 0.50<sp≤0.60="" 0.<="" 010054-1b5913-201616-331110="" 010054-1b5956-201616-331110="" 10<sp≤12.5="" 12.5<sp≤15="" 201616-331110="" 201c1c-331110="" 202323-331110="" 202c2c-331110="" 203535-331110="" 7.5<sp≤10="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></sp≤0.40>								
0.40 <sp≤0.50< td=""> 10<sp≤12.5< td=""> 010054-185913-201C1C-331110 010054-185934-202323-331110 010054-185968-202C2C-331110 010054-18599D-2032323-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-185956-201616-331110 010054-18595A-201C1C-331110 010054-185967-202323-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 02054-1859AB-202C2C-331110 020554-1859AB-202C2C-331110 010054-1355AB-202C2C2C-331110 010054-1355AB-202C2C2C-331110 010054-1355AB-202C2C2C-331110 010054-1355AB-202C2C2C2C2C331110 010054-1355AB-202C2C2C2C2C331110 010054-1355AB-202C2C2C2C2C331110 010054-1355AB-202C2C2C2C2C331110 010054-1355AB-202C2C2C2C2C2C331110 010054-1355AB-202C2C2C2C2C2C2C2C2C2C2C2C2C2C2C2C2C2C2</sp≤15<></sp≤0.60<></sp≤12.5<></sp≤0.50<>	0.30 <sp≤0.40< td=""><td>7.5<sp≤10< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤10<></td></sp≤0.40<>	7.5 <sp≤10< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤10<>						
0.50 <sp≤0.50 10<sp≤12.5="" 201616-331110="" 201c1c-331110="" 202323-331110="" 202c2c-3311110="" 203535-331110="" 2035355-331110="" 205054-1859a-="" td="" ="" <=""><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td><td></td></sp≤0.50>								
0.50 <sp≤0.60< th=""> 12.5<sp≤15< th=""> 010054-185956-201616-331110 010054-18595A-201C1C-331110 010054-1859AB-202C2C-331110 010054-1859AB-202C2C-331110 010054-185ADD-202C2C-331110 Model AM024JNHDCH AM027JNHDCH AM030JNHDCH AM036JNHDCH AM048JNHDCH Static Pressure Option code InH2O mmAq Option code 0.12<sp≤0.20< td=""> 3<sp≤5.2< td=""> 010054-1355A6-204646-331110 204F4F-331110 205858-331110 206969-331110 2080BD-331110 0.30<sp≤0.30< td=""> 5.2<sp≤7.5< td=""> 010054-13594E-204646-331110 204F4F-331110 205858-331110 206969-331110 2080BD-331110 0.30<sp≤0.40< td=""> 7.5<sp≤10< td=""> 010054-13594E-204646-331110 204F4F-331110 205858-331110 206969-331110 2080BD-331110 0.40<sp≤0.50< td=""> 10<sp≤12.5< td=""> 010054-135A70-204646-331110 204F4F-331110 205858-331110 206969-331110 2080BD-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-135AA3-204646-331110 204F4F-331110 205858-331110 206969-331110 2080BD-331110 0.60<sp≤0.70< td=""> 15<sp≤17.5< td=""> 010054-135AE6-204646-331110 204F4</sp≤17.5<></sp≤0.70<></sp≤15<></sp≤0.60<></sp≤12.5<></sp≤0.50<></sp≤10<></sp≤0.40<></sp≤7.5<></sp≤0.30<></sp≤5.2<></sp≤0.20<></sp≤15<></sp≤0.60<>	0.40 <sp≤0.50< td=""><td colspan="2">0.40<sp≤0.50 10<sp≤12.5<="" td="" =""><td></td><td></td><td></td><td></td><td></td></sp≤0.50></td></sp≤0.50<>	0.40 <sp≤0.50 10<sp≤12.5<="" td="" =""><td></td><td></td><td></td><td></td><td></td></sp≤0.50>						
Model AM024JNHDCH AM027JNHDCH AM030JNHDCH AM036JNHDCH AM048JNHDCH Static Pressure 0.12<5P≤0.20								
Model AM024JNHDCH AM027JNHDCH AM030JNHDCH AM036JNHDCH AM048JNHDCH Static Pressure InH20 Option code 0.12 <sp≤0.20< td=""> 3<sp≤5.2< td=""> 010054-1355A6- 204646-331110 010054-1355C7- 204F4F-331110 010054-1355D8- 204F4F-331110 010054-135919- 204699-331110 010054-135919- 204699-331110 010054-135A82- 204699-331110 010054-135A82- 204699-331110 010054-135A70- 204699-331110 010054-135A70- 204699-331110 010054-135A70- 204F4F-331110 010054-13598E- 204F4F-331110 010054-135AB1- 205858-331110 010054-135AB1- 209699-331110 010054-135EB- 204699-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-135AB6- 204646-331110 010054-135E08- 204F4F-331110 010054-135AF4- 205858-331110 010054-135E3P- 206969-331110 010054-135E9F- 204699-331110 010054-135E8F- 204699-331110 010054-135EAF- 204999-331110 010054-135EAF- 204999-331110 010054-135EAF- 204999-331110 010054-135EAF- 204999-331110 010054-135EAF- 204999-331110 010054-135E</sp≤15<></sp≤0.60<></sp≤5.2<></sp≤0.20<>	0.50 <sp≤0.60< td=""><td>12.5<sp≤15< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤15<></td></sp≤0.60<>	12.5 <sp≤15< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤15<>						
Static Pressure Option code InH2O mmAq 0.12 <sp≤0.20< th=""> 3<sp≤5.2< th=""> 010054-1355A6- 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 208D8D-331110 206969-331110 208D8D-331110 206969-331110 208D8D-331110 206969-331110 208D8D-331110 206969-331</sp≤5.2<></sp≤0.20<>			201616-331	1110	201C1C-33111C	202323-331110	202C2C-331110	203535-331110
Static Pressure Option code InH2O mmAq 0.12 <sp≤0.20< th=""> 3<sp≤5.2< th=""> 010054-1355A6- 204646-331110 204F4F-331110 205858-331110 206969-331110 206969-331110 208D8D-331110 206969-331</sp≤5.2<></sp≤0.20<>	Mod	del	AM024JNH	DCH	AM027JNHDCH	AM030JNHDCH	AM036JNHDCH	AM048JNHDCH
InH2O mmAq Option code 0.12 <sp≤0.20< td=""> 3<sp≤5.2< td=""> 010054-1355A6- 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 208D8D-331</sp≤5.2<></sp≤0.20<>	Static Pr	essure						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		I .				Option code		
0.12 <sp≤0.20< td=""> 3<sp≤5.2< td=""> 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.20<sp≤0.30< td=""> 5.2<sp≤7.5< td=""> 010054-1355F9-204646-331110 010054-13591C-205858-331110 206969-331110 208D8D-331110 0.30<sp≤0.40< td=""> 7.5<sp≤10< td=""> 010054-13594E-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.40<sp≤0.50< td=""> 10<sp≤12.5< td=""> 010054-135A70-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-135AA3-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.60<sp≤0.70< td=""> 15<sp≤17.5< td=""> 010054-135AE6-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18-204646-331110<td>111120</td><td>шшлч</td><td>010054 125</td><td>5 1 6</td><td>010054-135507</td><td>010054-125500</td><td>010054-125010</td><td>010054-135482-</td></sp≤20<></sp≤0.80<></sp≤20<></sp≤0.80<></sp≤20<></sp≤0.80<></sp≤17.5<></sp≤0.70<></sp≤15<></sp≤0.60<></sp≤12.5<></sp≤0.50<></sp≤10<></sp≤0.40<></sp≤7.5<></sp≤0.30<></sp≤5.2<></sp≤0.20<>	111120	шшлч	010054 125	5 1 6	010054-135507	010054-125500	010054-125010	010054-135482-
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.12 <sp≤0.20< td=""><td>3<sp≤5.2< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤5.2<></td></sp≤0.20<>	3 <sp≤5.2< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤5.2<>						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			+			-		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.20 <sp≤0.30< td=""><td>5.2<sp≤7.5< td=""><td></td><td></td><td></td><td></td><td>l</td><td></td></sp≤7.5<></td></sp≤0.30<>	5.2 <sp≤7.5< td=""><td></td><td></td><td></td><td></td><td>l</td><td></td></sp≤7.5<>					l	
$\begin{array}{c} 0.30 < SP \leq 0.40 \\ 0.40 < SP \leq 0.50 \\ 0.50 < SP \leq 0.50 \\ 0.50 < SP \leq 0.70 \\ 0.70 < SP \leq 0.80 \\ 0.70 < SP \leq $			1					
$\begin{array}{c} 0.40 < SP \leq 0.50 \\ 0.50 < SP \leq 0.50 \\ 0.50 < SP \leq 0.60 \\ 0.50 < SP \leq $	0.30 <sp≤0.40< td=""><td>7.5<sp≤10< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤10<></td></sp≤0.40<>	7.5 <sp≤10< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤10<>						
0.40 <sp≤0.50< td=""> 10<sp≤12.5< td=""> 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.50<sp≤0.60< td=""> 12.5<sp≤15< td=""> 010054-135AA3-204646-331110 2010054-135AC5-204646-331110 2010054-135AF4-205858-331110 206969-331110 208D8D-331110 0.60<sp≤0.70< td=""> 15<sp≤17.5< td=""> 010054-135AE6-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18-204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110</sp≤20<></sp≤0.80<></sp≤20<></sp≤0.80<></sp≤17.5<></sp≤0.70<></sp≤15<></sp≤0.60<></sp≤12.5<></sp≤0.50<>			1					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.40 <sp≤0.50 10<sp≤12.5<="" td=""><td></td><td></td><td></td><td></td><td>l</td><td></td></sp≤0.50>						l	
0.50 <sp≤0.60< td=""> 12.5<sp≤15< td=""> 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.60<sp≤0.70< td=""> 15<sp≤17.5< td=""> 010054-135AE6- 204646-331110 010054-135E08- 204F4F-331110 010054-135E37- 205858-331110 010054-135E6C- 206969-331110 010054-135EAF- 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18- 204646-331110 010054-135E3A- 204F4F-331110 010054-135E59- 205858-331110 010054-135EAF- 206969-331110 010054-135EAF- 206969-331110 010054-135EAF- 208D8D-331110</sp≤20<></sp≤0.80<></sp≤17.5<></sp≤0.70<></sp≤15<></sp≤0.60<>								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.50 <sp≤0.60< td=""><td>12.5<sp≤15< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤15<></td></sp≤0.60<>	12.5 <sp≤15< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤15<>						
0.60 <sp≤0.70< td=""> 15<sp≤17.5< td=""> 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110 0.70<sp≤0.80< td=""> 17.5<sp≤20< td=""> 010054-135E18- 204646-331110 010054-135E3A- 204F4F-331110 010054-135E59- 205858-331110 010054-135EAF- 206969-331110 010054-135EAF- 208D8D-331110</sp≤20<></sp≤0.80<></sp≤17.5<></sp≤0.70<>								
0.70 <sp≤0.80 010054-135e18-="" 010054-135e3a-="" 010054-135e59-="" 010054-135eaf-="" 17.5<sp≤20="" 204646-331110="" 205858-331110="" 206969-331110="" 208d8d-331110<="" td=""><td>0.60<sp≤0.70< td=""><td> 15<sp≤17.5< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤17.5<></td></sp≤0.70<></td></sp≤0.80>	0.60 <sp≤0.70< td=""><td> 15<sp≤17.5< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤17.5<></td></sp≤0.70<>	15 <sp≤17.5< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤17.5<>						
0.70<5P≤0.80 17.5<5P≤20 204646-331110 204F4F-331110 205858-331110 206969-331110 208D8D-331110								
	0.70 <sp≤0.80< td=""><td>17.5<sp≤20< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤20<></td></sp≤0.80<>	17.5 <sp≤20< td=""><td></td><td></td><td></td><td></td><td></td><td></td></sp≤20<>						
	0	<u> </u>					550	

Mod	del	AM054JNHDCH	
Static Pr	essure	0	
InH2O	mmAq	Option code	
0.12 <sp≤0.20 3<sp≤5.2<="" td=""><td>010054-135E07- 209E9E-331110</td></sp≤0.20>		010054-135E07- 209E9E-331110	
0.20 <sp≤0.30< td=""><td>5.2<sp≤7.5< td=""><td>010054-135E4A- 209E9E-331110</td></sp≤7.5<></td></sp≤0.30<>	5.2 <sp≤7.5< td=""><td>010054-135E4A- 209E9E-331110</td></sp≤7.5<>	010054-135E4A- 209E9E-331110	
0.30 <sp≤0.40 7.5<sp≤<="" td=""><td>010054-135E8D- 209E9E-331110</td></sp≤0.40>		010054-135E8D- 209E9E-331110	
0.40 <sp≤0.50 10<sp≤12.5<="" td=""><td>010054-135FB1- 209E9E-331110</td></sp≤0.50>		010054-135FB1- 209E9E-331110	
0.50 <sp≤0.60 12.5<sp≤1<="" td=""><td>010054-135FC4- 209E9E-331110</td></sp≤0.60>		010054-135FC4- 209E9E-331110	

Model		AM006JNMPCH	AM018JNMPCH	AM028JNMPCH	AM042JNMPCH		
Static Pressure							
InH2O	mmAq	Option code					
0 (CD +0.04	0 <sp≤1< td=""><td>010054-1B5095-</td><td>010054-135530-</td><td>010054-135585-</td><td>010054-1355F9-</td></sp≤1<>	010054-1B5095-	010054-135530-	010054-135585-	010054-1355F9-		
0 <sp≤0.04< td=""><td>0<3F≦1</td><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤0.04<>	0<3F≦1	201212-331110	203535-331110	205252-331110	207B7B-331110		
0.04 <sp<0.12< td=""><td>1<sp<3< td=""><td>010054-1B50F8-</td><td>010054-135552-</td><td>010054-135596-</td><td>010054-13590B-</td></sp<3<></td></sp<0.12<>	1 <sp<3< td=""><td>010054-1B50F8-</td><td>010054-135552-</td><td>010054-135596-</td><td>010054-13590B-</td></sp<3<>	010054-1B50F8-	010054-135552-	010054-135596-	010054-13590B-		
0.04<5P≤0.12	1<3P≤3	201212-331110	203535-331110	205252-331110	207B7B-331110		
0.12 (CD (0.20	2 -CD -E	010054-1B544B-	010054-135585-	010054-1355C9-	010054-13593C-		
0.12 <sp≤0.20< td=""><td>3 <sp≤5< td=""><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤5<></td></sp≤0.20<>	3 <sp≤5< td=""><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤5<>	201212-331110	203535-331110	205252-331110	207B7B-331110		
	5 <sp≤7.5< td=""><td>010054-1B549E-</td><td>010054-1355C7-</td><td>010054-13591A-</td><td>010054-135A60-</td></sp≤7.5<>	010054-1B549E-	010054-1355C7-	010054-13591A-	010054-135A60-		
0.20 <sp≤0.30< td=""><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤0.30<>		201212-331110	203535-331110	205252-331110	207B7B-331110		
0.20 -CD -0.40	7.5 <sp≤10< td=""><td>010054-1B55D1-</td><td>010054-13592A-</td><td>010054-13597E-</td><td>010054-135AB4-</td></sp≤10<>	010054-1B55D1-	010054-13592A-	010054-13597E-	010054-135AB4-		
0.30 <sp≤0.40< td=""><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤0.40<>		201212-331110	203535-331110	205252-331110	207B7B-331110		
0.40 <sp<0.50< td=""><td>10 -CD -12 F</td><td>010054-1B5913-</td><td>010054-13594C-</td><td>010054-135AA1-</td><td>010054-135AF7-</td></sp<0.50<>	10 -CD -12 F	010054-1B5913-	010054-13594C-	010054-135AA1-	010054-135AF7-		
0.40<5P≤0.50	10 <sp≤12.5< td=""><td>201212-331110</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤12.5<>	201212-331110	203535-331110	205252-331110	207B7B-331110		
0.50 -50 -0.60	12.5 <sp≤15< td=""><td>010054-1B5956-</td><td>010054-135A80-</td><td>010054-135AE1-</td><td>010054-135E4A-</td></sp≤15<>	010054-1B5956-	010054-135A80-	010054-135AE1-	010054-135E4A-		
0.50<5P≤0.60		201212-331110	203535-331110	205252-331110	207B7B-331110		
0.60 -60 -0.70	15 -CD -17 5		010054-135AB3-	010054-135E26-	010054-135E5D-		
U.0U<5P≦U./U	15 <sp≤17.5< td=""><td>-</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤17.5<>	-	203535-331110	205252-331110	207B7B-331110		
0.70 50 000	17.5 50 00		010054-135AF5-	010054-135E58-	010054-135FA1-		
0.70 <sp≤0.80< td=""><td>17.5<sp≤20< td=""><td>-</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤20<></td></sp≤0.80<>	17.5 <sp≤20< td=""><td>-</td><td>203535-331110</td><td>205252-331110</td><td>207B7B-331110</td></sp≤20<>	-	203535-331110	205252-331110	207B7B-331110		

Adjusting air flow(Contiued)

Model		AM006RNMDCH AM007MNMDCH AM009MNMDCH				
Static Pressure			0			
InH2O	mmAq	Option code				
0< SP <0.04	0< SP <1	010054-1E5060-	010054-1E5060-	010054-1E5060-		
0≤ 37 ≤0.04	0≤3₽≤1	201212-331101	201616-331101	201C1C-331101		
0.04 - CD -0.12	1< SP <3	010054-1E50D4-	010054-1E50D4-	010054-1E50D4-		
0.04< SP ≤0.12	I< SP ≤3	201212-331101	201616-331101	201C1C-331101		
0.12< SP <0.20	3< SP ≤5	010054-1E5437-	010054-1E5437-	010054-1E5437-		
0.12< SP ≤0.20		201212-331101	201616-331101	201C1C-331101		
0.00 CD 0.00	5< SP ≤7.5	010054-1E54AA-	010054-1E54AA-	010054-1E54AA-		
0.20< SP ≤0.30		201212-331101	201616-331101	201C1C-331101		
0.20 . 60 . 0.40	7.5< SP ≤10	010054-1E581E-	010054-1E581E-	010054-1E581E-		
0.30< SP ≤0.40		201212-331101	201616-331101	201C1C-331101		
0.4 + CD +0.50	10 - CD -12 F	010054-1E5972-	010054-1E5972-	010054-1E5972-		
0.4< SP ≤0.50	10< SP ≤12.5	201212-331101	201616-331101	201C1C-331101		
0.5< SP ≤0.60	12.5< SP <15	010054-1E59C5-	010054-1E59C5-	010054-1E59C5-		
0.5< 52 €0.60	12.3 \ 3P \subseteq 13	201212-331101	201616-331101	201C1C-331101		

Model		AM012MNMDCH	AM015MNMDCH	AM018MNMDCH	AM018RNMDCH	
Static Pressure						
InH2O	mmAq	Option code				
0< SP <0.04	0< SP <1	010054-1E5072-	010054-1E5095-	010054-1E5438-	010054-1E50C3-	
0≤ 3P ≤0.04	0≤3₽≤1	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.04< SP <0.12	1 . CD . 2	010054-1E50D6-	010054-1E50F9-	010054-1E549B-	010054-1E5436-	
0.04< 5P ≤0.12	1< SP ≤3	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.12 + CD +0.20	2 4 CD 4 E	010054-1E5449-	010054-1E545D-	010054-1E54FF-	010054-1E5498-	
0.12< SP ≤0.20	3< SP ≤5	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.20 . 60 . 0.20	5 · CD · 7 5	010054-1E54BD-	010054-1E55D3-	010054-1E5944-	010054-1E54FB-	
0.20< SP ≤0.30	5< SP ≤7.5	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.20 - 60 -0.40	7.F. (CD10	010054-1E5911-	010054-1E5938-	010054-1E59A9-	010054-1E586E-	
0.30< SP ≤0.40	7.5< SP ≤10	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.4 - 50 -0.50		010054-1E5976-	010054-1E598C-	010054-1E59EC-	010054-1E59B1-	
0.4< SP ≤0.50	10< SP ≤12.5	202323-331102	202C2C-331103	203535-331104	203434-331113	
0.5 + 60 +0.60	12.5< SP ≤15	010054-1E59CA-	010054-1E5AD0-	010054-1E5E30-	010054-1E5D04-	
0.5< SP ≤0.60	12.3< 3₽ ≤15	202323-331102	202C2C-331103	203535-331104	203434-331113	

Model		AM024MNHDCH	AM027MNHDCH	AM030MNHDCH		
Static Pressure		Option code				
InH2O	mmAq					
0.12 <sp<0.20< td=""><td>3<sp<5.2< td=""><td>010054-1E54BB-</td><td>010054-1E55C0-</td><td>010054-1E55D3-</td></sp<5.2<></td></sp<0.20<>	3 <sp<5.2< td=""><td>010054-1E54BB-</td><td>010054-1E55C0-</td><td>010054-1E55D3-</td></sp<5.2<>	010054-1E54BB-	010054-1E55C0-	010054-1E55D3-		
0.12≤5P≤0.20	355P55.Z	204646-331115	204F4F-331115	205858-331116		
0.20 4 CD 40.20	E 2 + D + 7 E	010054-1E581F-	010054-1E5924-	010054-1E5938-		
0.20< SP≤0.30	5.2< P≤7.5	204646-331115	204F4F-331115	205858-331116		
0.30< SP<0.40	7.5 <sp≤10< td=""><td>010054-1E5973-</td><td>010054-1E5989-</td><td>010054-1E598C-</td></sp≤10<>	010054-1E5973-	010054-1E5989-	010054-1E598C-		
0.30< 3₽≤0.40		204646-331115	204F4F-331115	205858-331116		
0.40< SP<0.50	10 <sp≤12.5< td=""><td>010054-1E59C6-</td><td>010054-1E59DC-</td><td>010054-1E5AE1-</td></sp≤12.5<>	010054-1E59C6-	010054-1E59DC-	010054-1E5AE1-		
0.40< 5P≤0.50		204646-331115	204F4F-331115	205858-331116		
0.50< SP<0.60	:0.60 12.5 <sp≤15< td=""><td>010054-1E5D1A-</td><td>010054-1E5E20-</td><td>010054-1E5E35-</td></sp≤15<>	010054-1E5D1A-	010054-1E5E20-	010054-1E5E35-		
0.50< 5₽≤0.00		204646-331115	204F4F-331115	205858-331116		
0.60< SP<0.70	15 <sp≤17.5< td=""><td>010054-1E5D6D-</td><td>010054-1E5E63-</td><td>010054-1E5E78-</td></sp≤17.5<>	010054-1E5D6D-	010054-1E5E63-	010054-1E5E78-		
0.00< 3₽≤0.70		204646-331115	204F4F-331115	205858-331116		
0.70< SP<0.80	17.5 <sp<20< td=""><td>010054-1E5EA0-</td><td>010054-1E5EB7-</td><td>010054-1E5ECC-</td></sp<20<>	010054-1E5EA0-	010054-1E5EB7-	010054-1E5ECC-		
0.70< 3P≤0.80	17.5<5P≦20	204646-331115	204F4F-331115	205858-331116		

Mod	el	AM036MNHDCH	AM048MNHDCH	
Static Pre	essure			
InH2O mmAq		Option code		
0.12 <sp<0.20< td=""><td>2 60 50</td><td>010054-1E542A-</td><td>010054-1E548D-</td></sp<0.20<>	2 60 50	010054-1E542A-	010054-1E548D-	
0.1253P50.20	3≤SP≤5.2	206969-331124	208D8D-33112A	
0.20< SP<0.30	5.2< P<7.5	010054-1E546C-	010054-1E55C0-	
0.20< 3₽≦0.30	5.2< P≤7.5	206969-331124	208D8D-33112A	
0.30< SP<0.40	7.5 <sp≤10< td=""><td>010054-1E55B0-</td><td>010054-1E55F2-</td></sp≤10<>	010054-1E55B0-	010054-1E55F2-	
0.30< 3₽≤0.40		206969-331124	208D8D-33112A	
0.40< SP<0.50	10 <sp≤12.5< td=""><td>010054-1E55F3-</td><td>010054-1E5935-</td></sp≤12.5<>	010054-1E55F3-	010054-1E5935-	
0.40< 3P≤0.50		206969-331124	208D8D-33112A	
0.50< SP<0.60	.60 12.5 <sp<15< td=""><td>010054-1E5936-</td><td>010054-1E5989-</td></sp<15<>	010054-1E5936-	010054-1E5989-	
0.50< 5₽≤0.60	12.5<5₽≦15	206969-331124	208D8D-33112A	
0.60< SP<0.70	15 <sp<17.5< td=""><td>010054-1E597A-</td><td>010054-1E59CC-</td></sp<17.5<>	010054-1E597A-	010054-1E59CC-	
0.00< 3₽≤0.70	13<37≦17.3	206969-331124	208D8D-33112A	
0.70< SP<0.80	17.5 <sp<20< td=""><td>010054-1E59BD-</td><td>010054-1E5D0F-</td></sp<20<>	010054-1E59BD-	010054-1E5D0F-	
0.70< 3₽≦0.60	17.3<3₽≦20	206969-331124	208D8D-33112A	

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.

Extending the power cable

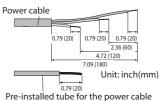
1. Prepare the following tools.

Tools	Crimping pliers	Connection sleeve	Insulation tape	Contraction tube
Spec	MH-14	20xØ0.26 inch(6.5 mm) (HxOD)	Width 0.75 inch(19 mm)	70xØ0.31 inch(8.0 mm) (LxOD)
Shape				

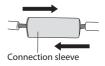
- 2. As shown in the figure, peel off the shields from the rubber and wire of the power cable.
 - Peel off 0.79 inch(20 mm) of cable shields from the preinstalled tube.



- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.

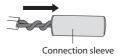


- 3. Insert both sides of core wire of the power cable into the connection sleeve.
- ► Method 1
 Push the core wire into the sleeve from both sides.

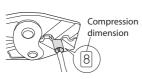


► Method 2

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



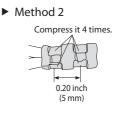
- 4. Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.
 - The compression dimension should be 0.31 inch (8.0 mm).
 - After compressing it, pull both sides of the wire to make sure it is firmly pressed.



Method 1

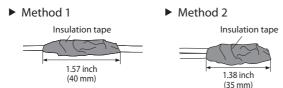
Compress it 4 times.

0.20 inch
(5 mm)



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

Three or more layers of insulation are required.



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



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



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



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

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



SAMSUNG



