SAMSUNG

VRF Technical Data Book

MAX (Wall mounted) for America (R410A, 60Hz, HP/HR)

Model : AM032MNQDCH/AA

History

Version	Modification	Date	Remark
Ver.1.0	Release MAX (Wall Mounted) TDB	'17. 03. 15	
Ver.1.1	Modified the Capacity Table (P9)	'17. 09. 28	
Ver.1.2	Updated the note of Specification/Sound/Installation page	'19. 08. 13	

Nomenclature

Indoor Unit

Model Name

AM	032	M	N	Q	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF

(2) Capacity

kBtu/h (3 digits)

(3) Version

H	2014
J	2015
K	2016
M	2017

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1 Way Cassette
N	4 Way Cassette (600x600)
4	4 Way Cassette, 360 Cassette
L	LSP Duct
M	MSP Duct
C	Ceiling
J	Console
Q	RAC (with EEV)
T	RAC (without EEV)
A	A3050 (Wall Mounted)

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

E	1Φ, 220~240V, 50Hz
K	1Φ, 220~240V, 50/60Hz
C	1Φ, 208~230V, 60Hz

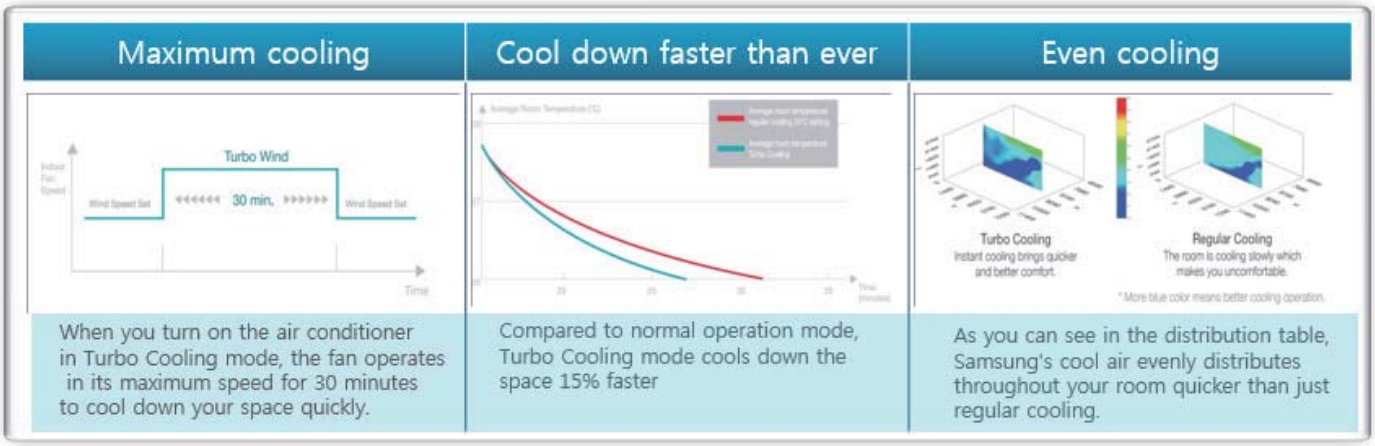
(8) Mode

H	Heat Pump

Features & Benefits

TURBO Cooling mode

Samsung's air conditioner operates in its maximum speed in Turbo Cooling mode to quickly reach the set temperature. Instantly cool down your space with Samsung's Turbo Cooling technology.



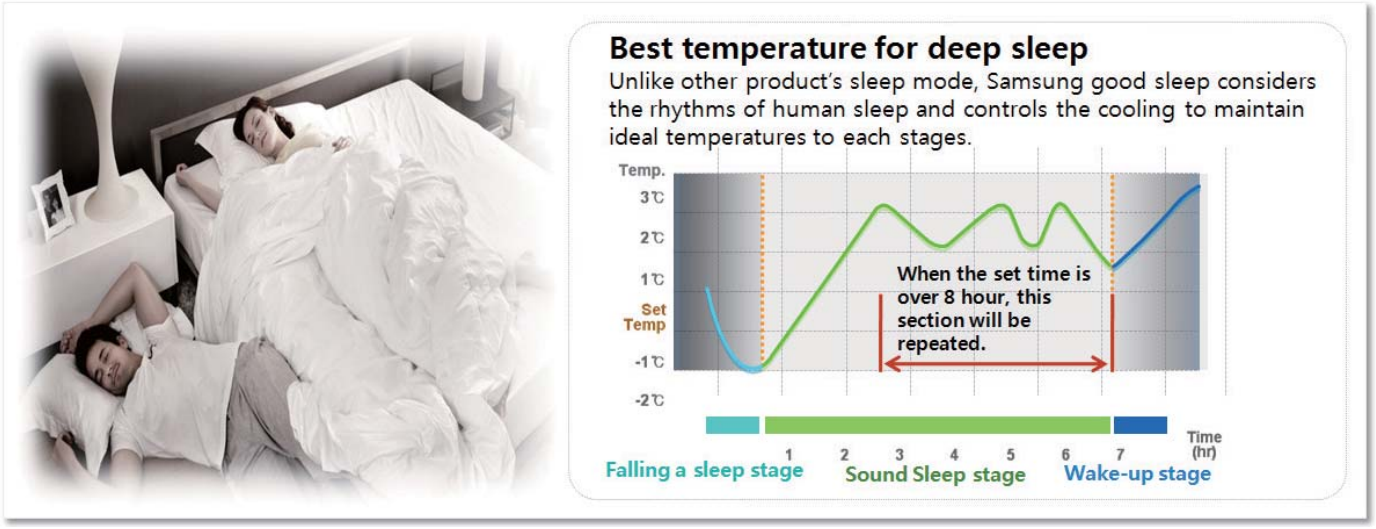
Full HD Filter

Full HD 80 Filter filtrates dust particles by up to 80%.

	Image (x 40)	Fiber Dia.(㎛)	Dust collection
FULL HD FILTER		**60**	**80%**
Conventional		211	40%

Good sleep

The quality of sleep you get directly impacts your physical and mental health. Concerned with your health, Samsung performed extensive experiments to determine the ideal temperatures needed to quickly fall asleep.



Line-up

Indoor unit

Model	Capacity (kBtu/h)
	31.7
MAX	

Contents

1. Specification

MAX (Wall Mounted)

Type				WALL MOUNTED
Model Name				AM032MNQDCH/AA
Power Supply			Φ, #, V, Hz	1,2,208-230,60
Mode			-	HP / HR
Performance	TON		Ton	2.64
	Capacity	Cooling	kW	9.3
			Btu/h	31,700
			US RT	2.64
		Heating	kW	9.8
			Btu/h	33,400
			US RT	2.78
Power	Power Input	Cooling	W	66
		Heating		76
	Current Input	Cooling	A	0.47
		Heating		0.54
	Current	MCA	A	0.68
		MOP		15
Heat exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Green Hydrophile
Fan	Type		-	Crossflow Fan
	Quantity		EA	1
	Air Flow Rate	H/M/L	m^3/min	23 / 20 / 17
			ft^3/min	812 / 706 / 600
			l/s	383 / 333 / 283
Fan Motor	Type		-	BLDC Motor
	Output x n		W	58 x 1
Piping Connections	Liquid Pipe		Type	Flare connection
			Φ, mm (inch)	9.52 (3/8)
	Gas Pipe		Type	Flare connection
			Φ, mm (inch)	15.88 (5/8)
	Heat insulation		-	Both liquid and gas pipes
	Drain Pipe		Φ,mm	ID 18 HOSE
Wiring connections	Communication	Min.	mm^2	0.75
		Remark	-	F1, F2
Refrigerant	Type		-	R410A
	Electronic Expansion Valve		-	EEV INCLUDED
Sound	Sound Pressure Level	H/M/L	dB(A)	49/46/42
	Sound Power	Cooling		66
External Dimension	Net Weight		kg (lbs)	18.5 (40.8)
	Shipping Weight		kg (lbs)	22.0 (48.5)
	Net Dimensions (WxHxD)		mm	1,280 x 345 x 253
			inch	50 3/8 x 13 9/16 x 9 15/16
	Shipping Dimensions (WxHxD)		mm	1,352 x 326 x 420
			inch	53 1/4 x 12 13/16 x 16 9/16
Casing	Material		-	HIPS

NOTE

- Specification may be subject to change without prior notice.
  1) Mode : HP(Heat Pump), HR(Heat Recovery)
  2) Capacities are based on (Equivalent refrigerant piping 25ft, Level differences 0ft);
     - Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
     - Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
  3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  4) These products contain R410A which is fluorinated greenhouse gas.
  5) Select wire size based on the value of MCA

※ The concept of RAC with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent such a noise claim.

2. Summary Table

MAX (Wall Mounted)

Performance Characteristics

Model Code	Fan Speed	Capacity (KBtu/h)			Airflow (CFM)	Sound Pressure (dBA)	Sound Power (dBA)
		Cooling	Sensible	Heating			
AM032MNQDCH✻✻	High	31.7	21.5	33.4	812	49	66
	Mid	24.5	17.9	31.2	706	46	-
	Low	20.6	15.6	28.7	600	42	-

NOTE

- Sound data is based on cooling operation.

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MOP (A)	FLA (A)
AM032MNQDCH✻✻	1, 2, 208~230, 60	66 / 76 (C/H)	0.47/ 0.54 (C/H)	0.68	15	0.54

NOTE

- MCA : Minimum circuit amperes
- MOP : Maximum Overcurrent Protective Device (A)
- Select wire size based on the value of MCA

3. Capacity Table

MAX (Wall Mounted)

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°F, DB)	Indoor temperature													
		68(°F,DB) 57(°F,WB)		73(°F,DB) 61(°F,WB)		79(°F,DB) 64(°F,WB)		80(°F,DB) 67(°F,WB)		85(°F,DB) 70(°F,WB)		87(°F,DB) 72(°F,WB)		89(°F,DB) 75(°F,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
31.7	50	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	38.2	20.7
	54	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	58	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	60	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	33.1	21.6	35.4	21.6	37.8	20.2
	64	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	67	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	70	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	73	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	77	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	80	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	84	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	88	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	92	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	95	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	37.3	19.7
	99	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	35.0	21.1	36.8	19.3
	103	21.9	17.4	25.6	19.3	29.8	21.1	31.7	21.6	32.6	21.6	34.5	20.7	35.9	18.8
	107	21.9	17.4	25.6	19.3	29.6	21.0	31.3	21.3	32.3	21.3	33.9	20.3	35.0	18.3
	111	21.9	17.4	25.6	19.3	28.8	20.4	30.3	20.6	31.3	20.7	32.6	19.5	33.8	17.7
	115	21.9	17.4	25.4	19.1	28.4	20.1	29.3	20.0	30.4	20.1	31.5	18.9	32.9	17.2
	118	21.6	17.2	25.1	18.8	27.9	19.7	28.5	19.4	29.8	19.7	30.6	18.3	31.7	16.6
	120	21.5	17.0	24.9	18.7	27.6	19.5	28.4	19.3	29.3	19.4	30.0	18.0	31.1	16.3

Heating

TC: Total Capacity

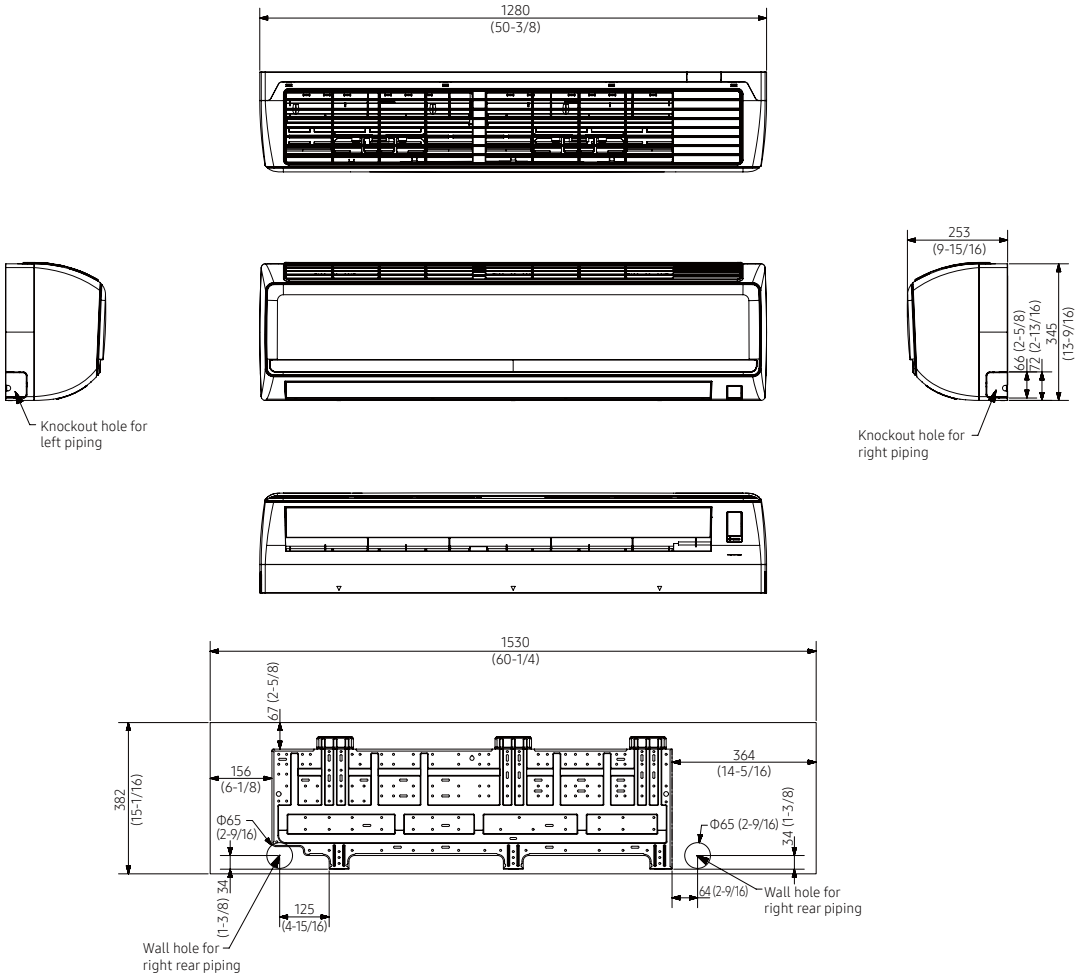
Capacity Index	Outdoor Air Temp. (°F)		Indoor temperature (°F, DB)				
			61.0	65.0	70.0	72.0	75.0
			TC	TC	TC	TC	TC
	DB	WB	MBH	MBH	MBH	MBH	MBH
33.4	-12.6	-13	20.2	19.8	19.3	19.3	19.3
	-7.1	-7.6	20.7	20.2	19.8	19.8	19.8
	-3.6	-4	21.0	20.5	20.1	20.1	20.0
	-1.8	-2.2	21.2	20.7	20.2	20.2	20.0
	2	1	21.6	21.1	20.6	20.5	20.0
	6	5	22.5	22.0	21.1	20.7	20.2
	10	9	23.2	22.7	22.1	21.7	21.2
	13	12	24.1	24.0	23.5	23.0	22.9
	17	15	24.6	24.6	24.1	23.6	23.5
	19	18	25.1	25.1	24.6	24.1	23.9
	23	21	25.8	25.8	25.3	24.8	24.3
	26	24	27.2	26.7	26.7	25.8	24.8
	30	28	28.6	28.2	28.2	26.7	25.8
	35	32	30.1	29.6	29.1	28.2	26.7
	39	36	31.5	31.0	30.5	29.6	28.2
	44	40	32.9	32.4	32.0	30.1	28.2
	47	43	34.4	33.9	33.4	31.0	28.2
	51	47	35.3	34.4	33.4	31.0	28.2
	54	50	36.3	34.8	33.4	31.0	28.2
	57	53	37.7	35.3	33.4	31.0	28.2
	60	56	38.6	35.8	33.4	31.0	28.2

4. Dimensional Drawing

MAX (Wall Mounted)

AM032MNQDCH✳✳

Unit: mm (inch)



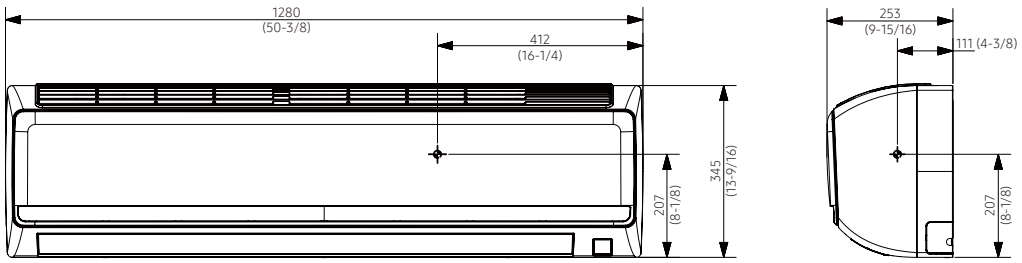
No.	Name	Description
1	Liquid pipe connection	9.52 (3/8")
2	Gas pipe connection	15.88 (5/8")
3	Drain pipe connection	ID 18 HOSE
4	Power supply & Communication wiring conduit	-

5. Center of Gravity

MAX (Wall Mounted)

AM032MNQDCH✳✳

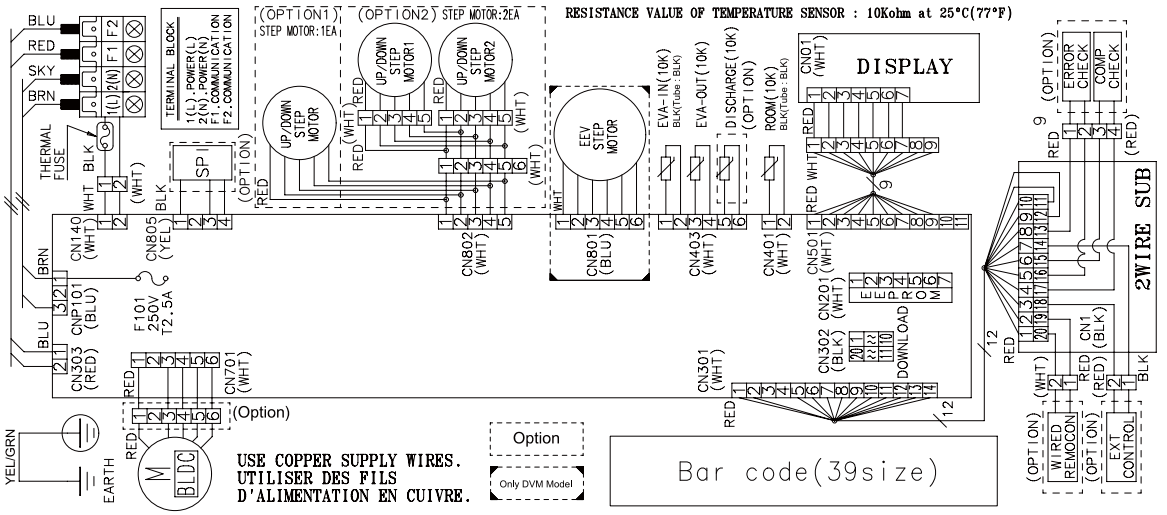
Unit: mm (inch)



6. Electrical Wiring Diagram

MAX (Wall Mounted)

AM032MNQDCH✻✻



LED LAMP DISPLAY			DESCRIPTION
OPERATION	TIMER	TURBO	○ : ON ✕ : OFF ◑ : BLINKS
✕	◑	✕	ROOM TEMPERATURE SENSOR ERROR(OPEN/SHORT)
◑	◑	✕	EVA-IN/OUT TEMPERATURE SENSOR ERROR(OPEN/SHORT)
✕	✕	◑	FAN RPM FEEDBACK ERROR(INDOOR UNIT)
◑	✕	◑	TEMPERATURE SENSOR ERROR(OUTDOOR UNIT)
✕	◑	◑	COMMUNICATION ERROR(OUTDOOR UNIT↔INDOOR UNIT)
○	◑	◑	SELF-DIAGNOSIS/ERROR OF OUTDOOR UNIT (CHECK ERROR CODE AT OUTDOOR UNIT'S OR SOLUTION DISPLAY)
◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR(INDOOR UNIT)
◑	○	◑	NO MATCH BETWEEN OUTDOOR UNIT AND INDOOR UNIT

MAIN PCB	Print circuit board(MAIN)	EEV	Electronics expansion valve	EVA-IN TEMP	Thermistor EVAPORATE
DISPLAY	Print circuit board(DISPLAY)	M-BLDC	BLDC Motor	EVA-OUT TEMP	Thermistor EVAPORATE
2WIRE SUB	Print circuit board(SUB COMM)	ROOM-TEMP	Thermistor AMBIENT		

NOTE

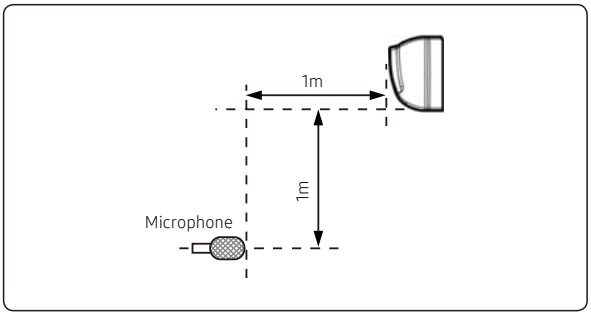
- This wiring diagram applies only to the Indoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortciruit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⏚ : Protective earth(screw), ▭▭ : connector, ⫽ : The wire quantity

7. Sound Data

MAX (Wall Mounted)

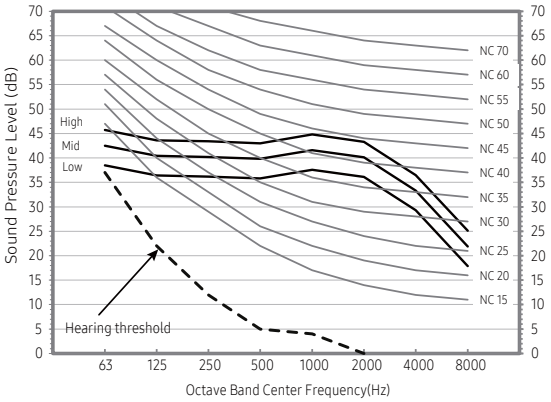
Sound Pressure level

Unit: dB(A)



Model	High	Mid	Low
AM032MNQDCH※※	49	46	42

- NC Curve
  1) AM032MNQDCH※※



NOTE

- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

※ The concept of RAC with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent such a noise claim.

7. Sound Data

MAX (Wall Mounted)

Sound Power level

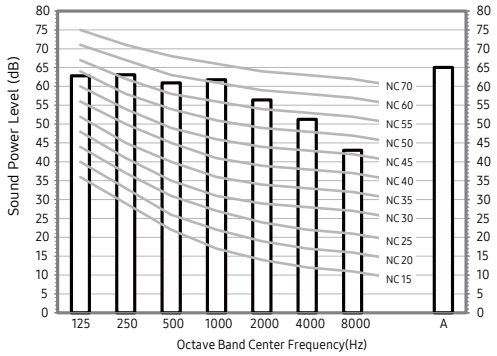
NOTE

- Specifications may be subject to change without prior notice
- Sound Power Level
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AM032MNQDCH※※	66

- NR Curve
  1) AM032MNQDCH※※



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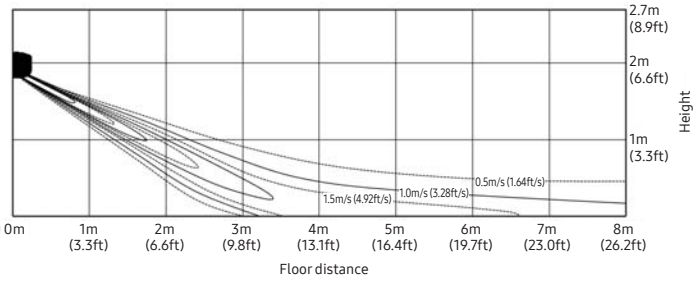
8. Temperature and air flow distribution

MAX (Wall Mounted)

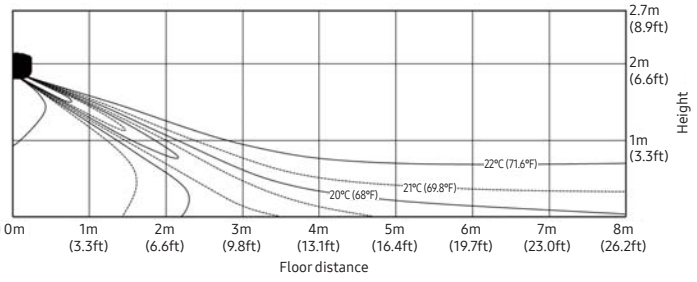
AM032MNQDCH✳✳

Discharge angle : 27

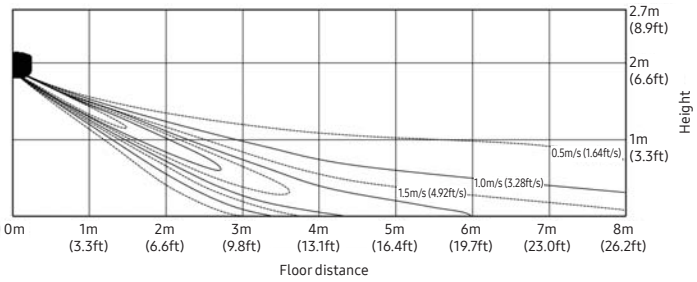
1) Cooling air velocity distribution



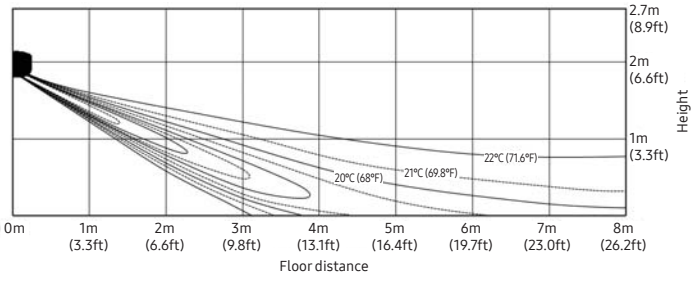
2) Cooling Temperature distribution



3) Heating air velocity distribution



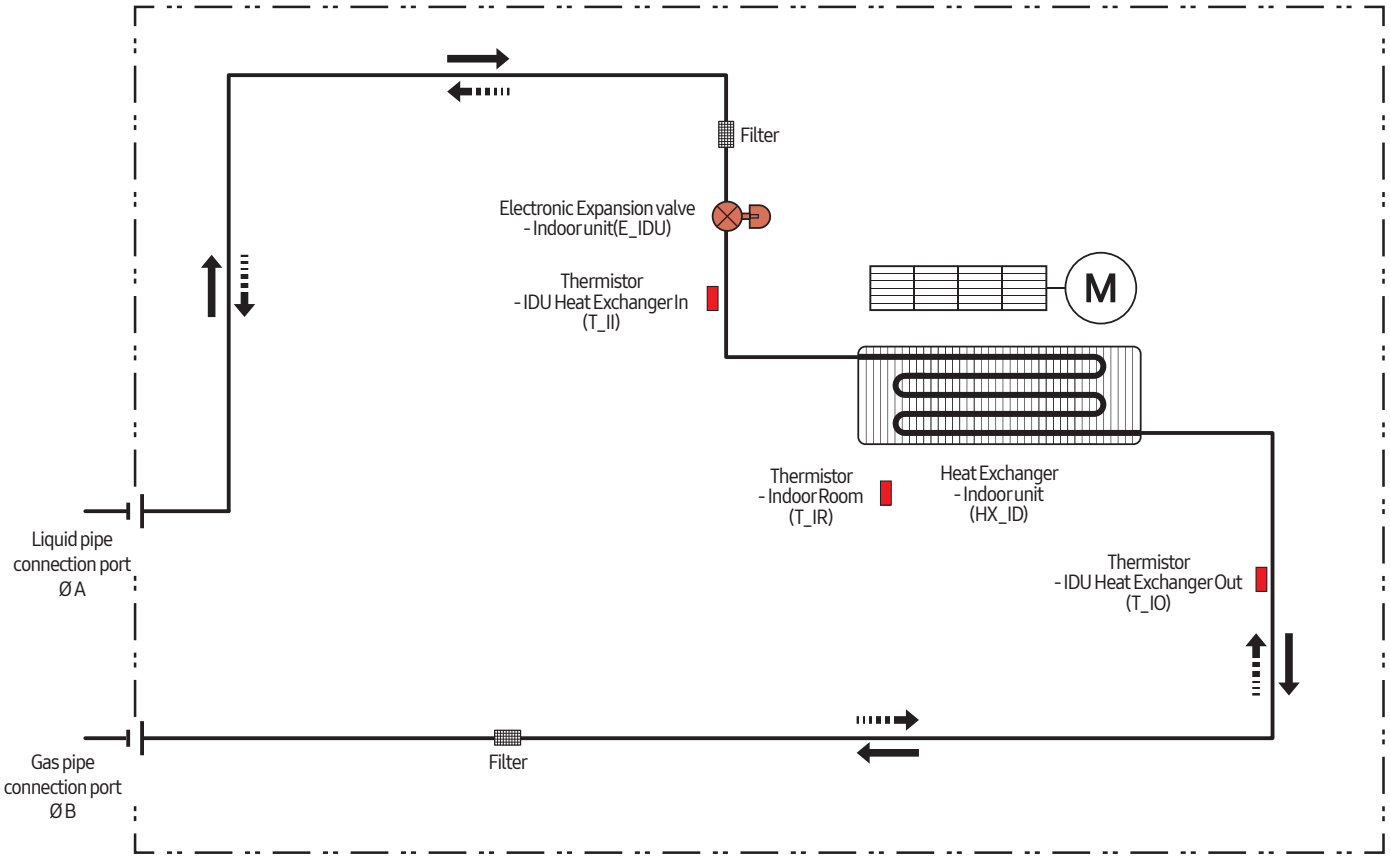
4) Heating Temperature distribution



9. Piping Diagram

MAX (Wall Mounted)

EEV included Model



Refrigerant flow	
Cooling	Heating
→	⇢

MODEL	A	B
AM032MNQDCH✕✕	9.52	15.88

10. Installation

MAX

Selecting the installation location

Indoor Unit

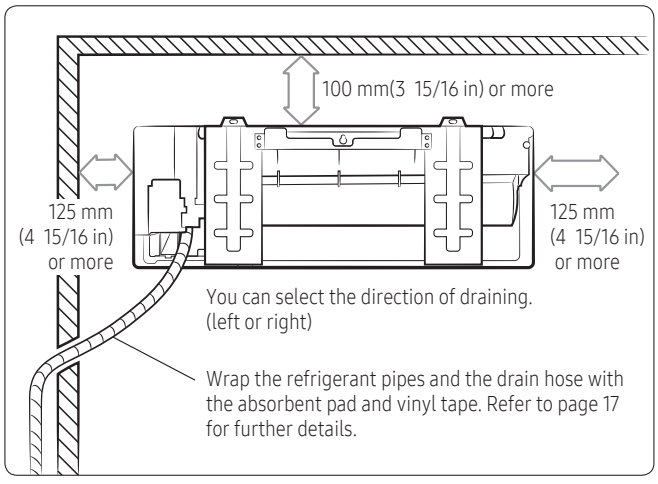
- Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight .
- 1m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from fluorescent and incandescent lights (so that the remote control can be operated well).
- A place where the air filter can be replaced easily.

⚠ CAUTION

- Avoid the following places to prevent malfunction of the unit
  - Where there is machine oil
  - Salty environment such as the seaside areas
  - Where sulfide gas exists
  - Other special atmosphere areas

Space requirements for installation & service

Observe the clearances and maximum lengths as seen in the picture below when installing the air conditioner.

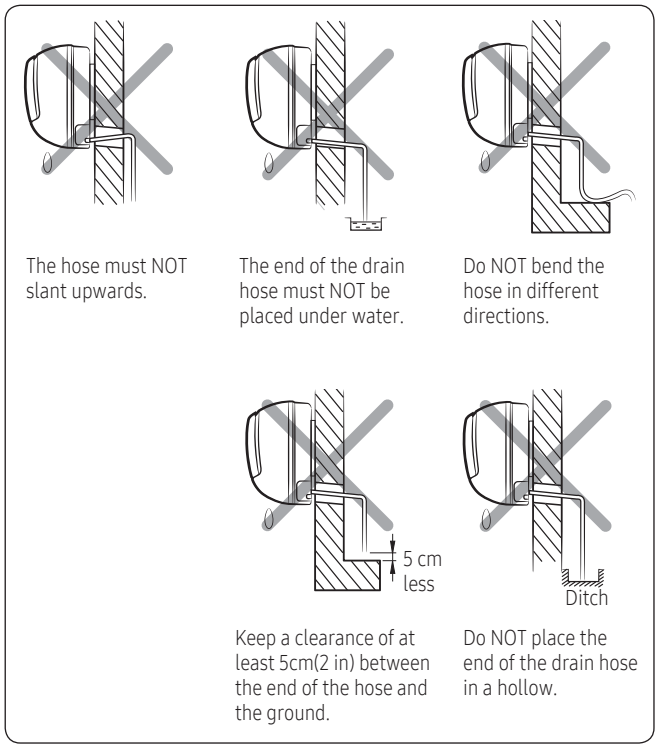


NOTE

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

Installing the drain hose

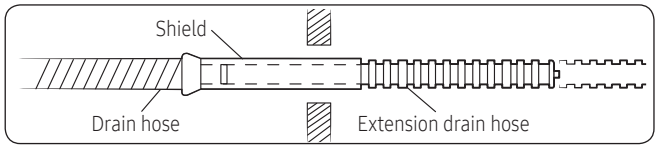
When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65-mm(2 9/16 in) hole drilled in the wall, check the following:



1 If necessary, connect the 2-meter extension drain hose to the drain hose.

2 If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.

3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.



NOTE

- If you don't use the other drain hose hole, block it with a rubber stopper.

4 Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.

5 Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.

NOTE

- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 12 for further details.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION!
  Drain hose connection must be easy accessible and serviceable.

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10. Installation

Connecting the power and communication cables

1 Before wiring work, you must turn off all power source.

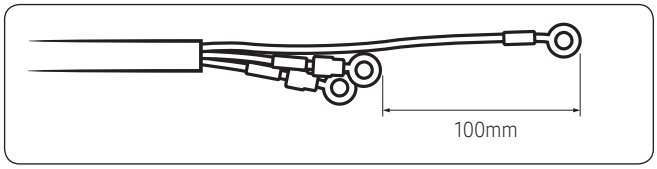
2 Indoor unit power should be supplied through the breaker (ELCB or MCCB+ELB) separated by the outdoor power.

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

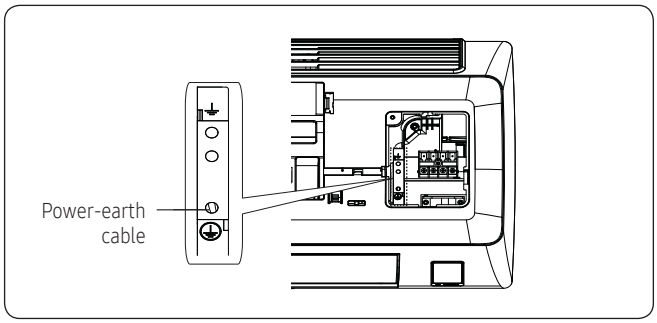
3 The power cable should be used only copper wires.

4 Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.

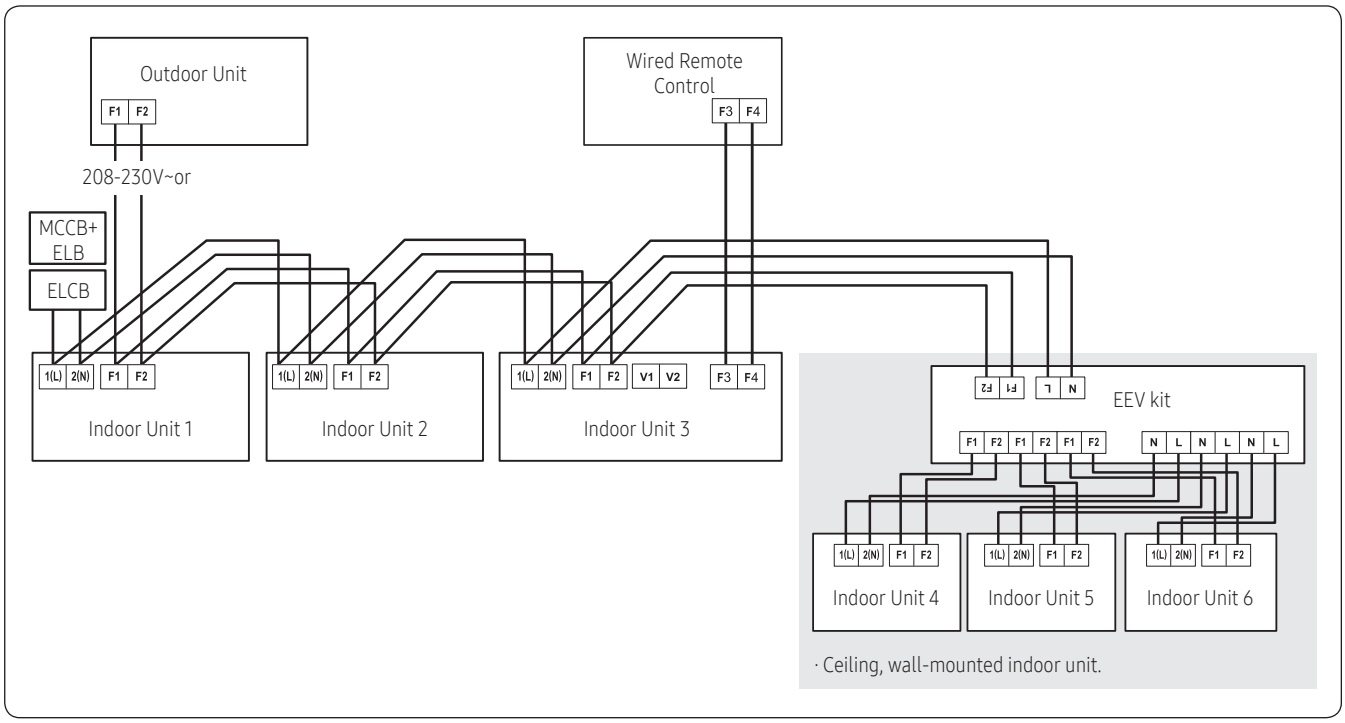
5 Cut the cable as like the following picture. The earth cable need to be longer than the power cable (1(L), 2(N)) by 100 mm.



6 Connect the earth cable to the plate on the evaporator as like the following picture.



7 Connect F3, F4(for communication) wires at the back side of the indoor unit when installing the wired remote control.



- ELCB : Essential Installation
- The EEV Kit is optional component.

⚠ WARNING

- Power off before connecting any wires;Indoor PBA will be damaged while V1,V2,F3,F4 short each other.
- You must connect the earth cable. If earthing is not complete, electric shock or fire may occur.

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10. Installation

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242V / Min : 198V	XA	XA, 30 mmA, 0.1 s	2.5 mm2	2.5 mm2	0.75~1.5 mm2

- Refer to the unit nameplate for rating current.
- Decide the capacity of ELCB(or MCCB+ELB) by below formula.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)

The capacity of ELCB(or MCCB+ELB) X[A] = 1.25 X 1.1 X ∑Ai

- X : The capacity of ELCB(or MCCB+ELB).
- ∑Ai : Sum of Rating currents of each indoor unit.
- Refer to each installation manual about the rating current of indoor unit.

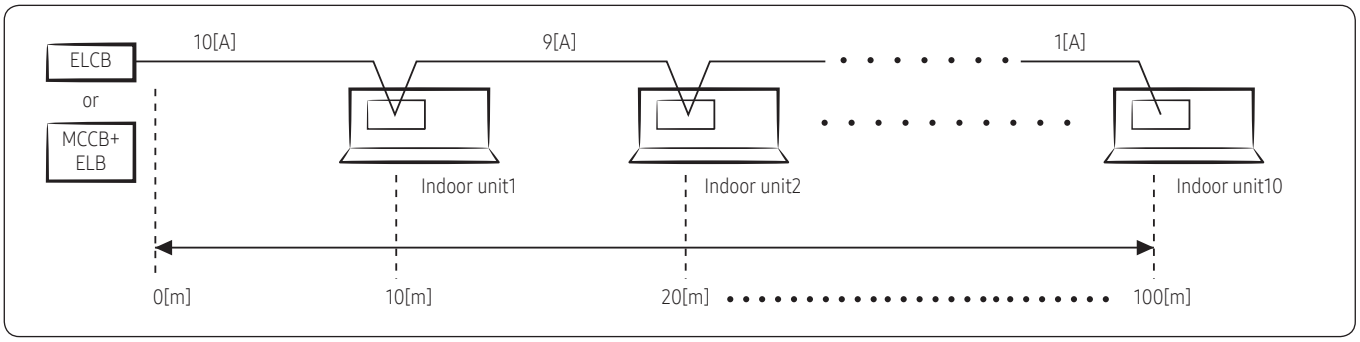
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

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

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

Example of Installation

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

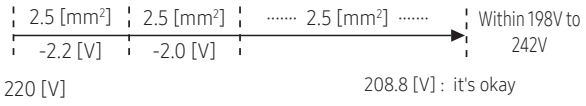


- Apply following equation.

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

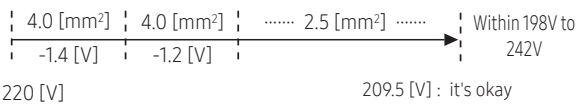
- Calculation

  - Installing with 1 sort wire



-(2.2+2.0+1.8+1.5+1.3+1.1+0.9+0.7+0.4+0.2)=-11.2 [V]

  - Installing with 2 different sort wire.



-(1.4+1.2+1.8+1.5+1.3+1.1+0.9+0.7+0.4+0.2)=-10.5 [V]

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10. Installation

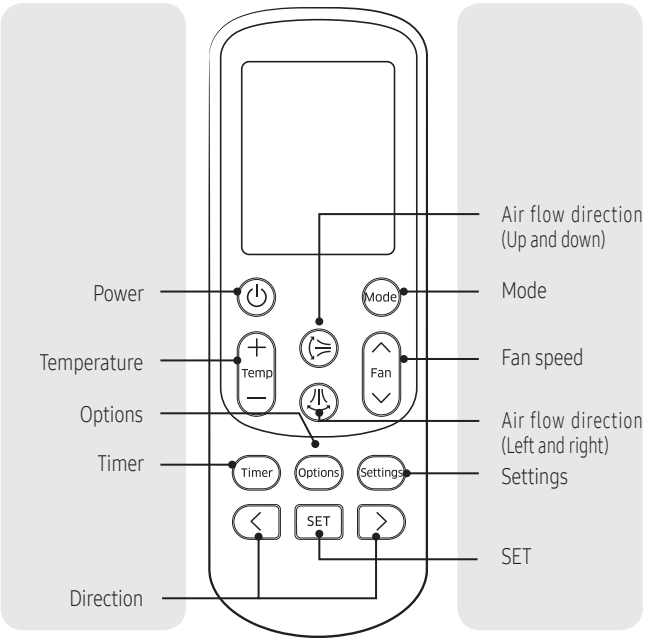
⚠ CAUTION

- Select the power cable in accordance with relevant local and national regulations.
- Wire size must comply with local and national code.
- For the power cable, use the grade of H07RN-F or H05RN-F materials.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring(≥3mm).

Setting an indoor unit address and installation option

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

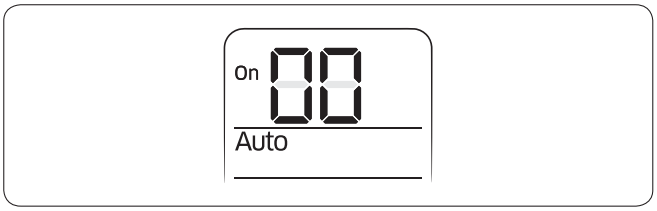
Option setting procedure



1 Remove batteries from the remote control.

2 Insert batteries and enter the option setting mode while pressing (High Temp button) and (Low Temp button).

3 Check if you have entered the option setting status.

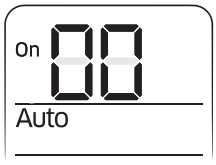


4 After entering the option setting status, select the option.

⚠ CAUTION

- 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
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

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

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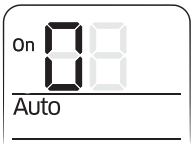
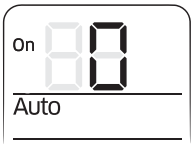
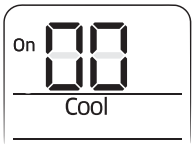
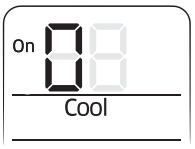
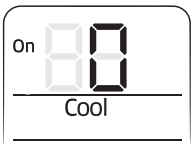
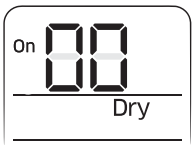
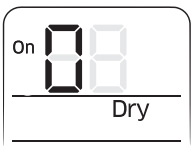
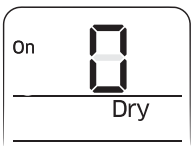
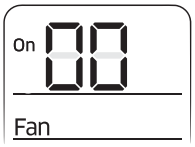
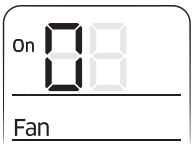
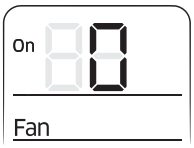
10. Installation

Option setting	Status
1 Setting SEG2, SEG3 option a Press Low Fan button(∨) to enter SEG2 value. b Press High Fan button(∧) to enter SEG3 value. Each time you press the button, 0 → 1 → ··· E → F 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.	
3 Setting SEG4, SEG5 option a Press Low Fan button(∨) to enter SEG4 value. b Press High Fan button(∧) to enter SEG5 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG4  SEG5
4 Setting **Dry** mode Mode Press **Mode** button to be changed to **Dry** mode in the ON status.	
5 Setting SEG6, SEG8 option a Press Low Fan button(∨) to enter SEG6 value. b Press High Fan button(∧) to enter SEG8 value. Each time you press the button, 0 → 1 → ··· E → F 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.	
7 Setting SEG9, SEG10 option a Press Low Fan button(∨) to enter SEG9 value. b Press High Fan button(∧) to enter SEG10 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG9  SEG10

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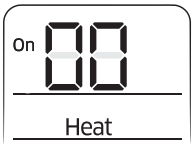
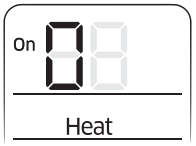
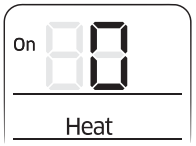
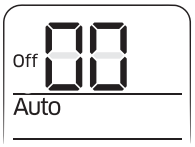
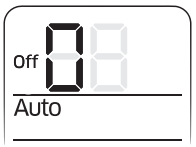
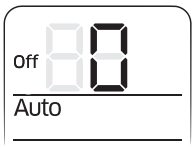
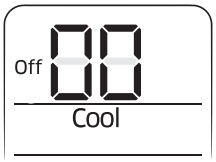
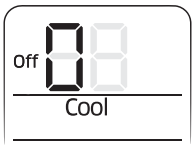
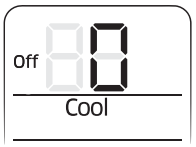
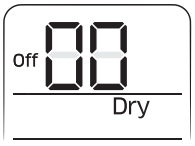
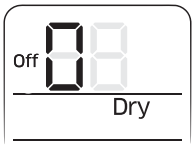
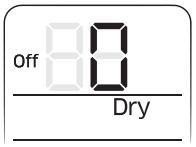
10. Installation

Option setting	Status
8 Setting **Heat** mode (Mode) Press **Mode** button to be changed to **Heat** mode in the ON status.	
9 Setting SEG11, SEG12 option a Press Low Fan button(∨) to enter SEG11 value. b Press High Fan button(∧) to enter SEG12 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG11  SEG12
10 Setting **Auto** mode (Mode) Press **Mode** button to be changed to **Auto** mode in the OFF status.	
11 Setting SEG14, SEG15 option a Press Low Fan button(∨) to enter SEG14 value. b Press High Fan button(∧) to enter SEG15 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG14  SEG15
12 Setting **Cool** mode (Mode) Press **Mode** button to be change to **Cool** mode in the OFF status.	
13 Setting SEG16, SEG17 option a Press Low Fan button(∨) to enter SEG16 value. b Press High Fan button(∧) to enter SEG17 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG16  SEG17
14 Setting **Dry** mode (Mode) Press **Mode** button to be change to **Dry** mode in the OFF status.	
15 Setting SEG18, SEG20 option a Press Low Fan button(∨) to enter SEG18 value. b Press High Fan button(∧) to enter SEG20 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG18  SEG20

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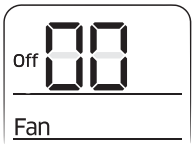
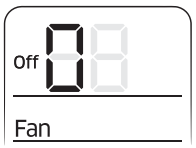
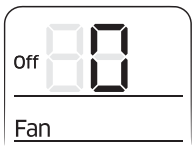
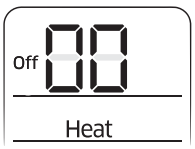
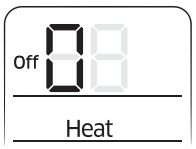
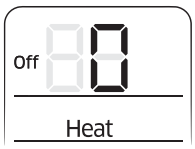
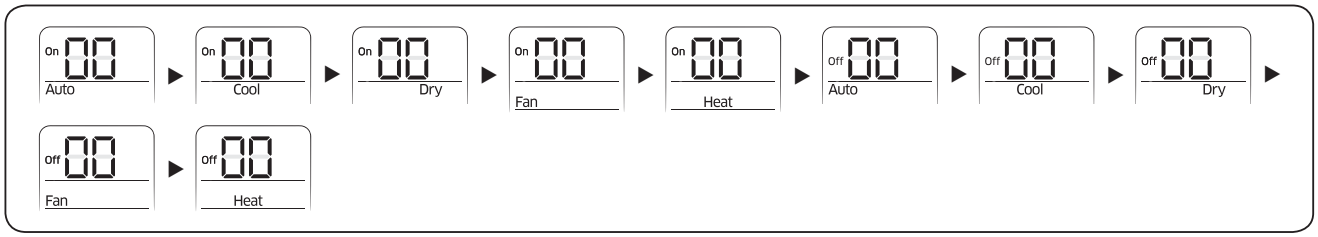
10. Installation

Option setting	Status
16 Setting **Fan** mode (Mode) Press **Mode** button to be change to **Fan** mode in the OFF status.	
17 Setting SEG21, SEG22 option **a** Press Low Fan button(∨) to enter SEG21 value. **b** Press High Fan button(∧) to enter SEG22 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG21  SEG22
18 Setting **Heat** mode (Mode) Press **Mode** button to be change to **Heat** mode in the OFF status.	
19 Setting SEG23, SEG24 mode **a** Press Low Fan button(∨) to enter SEG23 value. **b** Press High Fan button(∧) to enter SEG2 4 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG23  SEG24

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



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

7 Check operation.

a Reset the indoor unit by pressing the **RESET** button of indoor unit or outdoor unit.

b Take the batteries out of the remote control and insert them again and then press the operation button.

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10. Installation

Setting an indoor unit address (MAIN/RMC/MCU port)

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 Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
3 Assign an indoor unit address by wireless remote controller.
   The initial setting status of indoor unit ADDRESS(MAIN/RMC/MCU port) is "0A0000-100000-200000-300000".

NOTE

- Also set the MCU and Indoor units address by using Add-on > Change address on S-NET Pro 2. (For more information, see the S-NET Pro 2 Help.)

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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit
					1	Main address setting mode						

Option	SEG7		SEG8	SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE			Setting RMC address			Group channel(*16)		Group address	
Indication and Details	Indication	Details	-	Indication	Details	-	Indication	Details	Indication	Details
	1			0	No RMC address		RMC1	0~F	RMC2	0~F
				1	RMC address setting mode					

Option	SEG13		SEG14	SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		-	Setting MCU PORT address		10-digit of MCU address		1-digit of MCU		MCU PORT address	
Indication and Details	Indication	Details	-	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2			0	No MCU PORT	0~1	10-digit	0~9	1-digit	A~F	PORT Location
				1	MCU PORT address setting mode						

⚠ CAUTION

- 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.
- If the indoor unit is connected to the MCU, you can set the SEG 15~18.
  Ex.) If you want to set the indoor unit to 'A' port of MCU #1. (0A0000 – 100000 – 20101A -30000)

※ The concept of RAC with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent such a noise claim.

10. Installation

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 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 control(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.

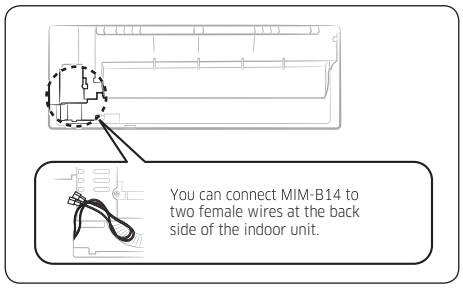
3 Set the indoor unit option by wireless remote control.

02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	Evaporator Drying	Use of external room temperature sensor / Minimizing fan operation when thermostat is off	Use of central control	FAN RPM compensation
SEG7	**SEG8**	**SEG9**	**SEG10**	**SEG11**	**SEG12**
1	-	Use of hot water heater	-	EEV Step when heating stops	-
SEG13	**SEG14**	**SEG15**	**SEG16**	**SEG17**	**SEG18**
2	Use of external control	Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal	S-Plasma ion	Buzzer control	Hours of filter usage
SEG19	**SEG20**	**SEG21**	**SEG22**	**SEG23**	**SEG24**
3	Individual control of a remote controller	Heating setting compensation	Adjusted EEV step of stopped unit during oil return /defrost mode.	-	-

- 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 external output of SEG15 is generated by MIM-B14 connection. (Refer to the manual of MIM-B14.)



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11. Accessory

Classification	Product	Model (NA)	Image	Remark	Using
Individual Control System	Wireless Remote Controller	MR-EH00U			DVM, CAC
	Wireless Remote Controller	AR-KH00U		360 CST Only	DVM, CAC
	Wired Remote Controller	MWR-WE11N			DVM, CAC
	Wired Remote Controller - Simple Type	MWR-SH00N			DVM, CAC
	Wired Remote Controller - Touch Simple Type	MWR-SH10N			DVM, CAC
	Receiver KIT	MRK-A10N			DVM, CAC
Centralized Control System	Onoff Controller	MCM-A202DN			DVM, CAC
	Touch Centralized Controller	MCM-A300N			DVM, CAC
	WIFI KIT	MIM-H03UN			DVM, CAC
	Interface Module	MIM-N01			DVM, CAC
Integrated management System	DMS2.5	MIM-D01AUN			DVM, CAC
Integrated management System	S-NET3	MST-P3P			DVM, CAC

11. Accessory

Classification	Product	Model (NA)	Image	Remark	Using
Gate Way	BACnet Gateway	MIM-B17BUN			DVM, CAC
	Lonworks Gateway	MIM-B18BUN			DVM, CAC
	External Contact Interface Module	MIM-B14			DVM, CAC
	MTFC (Multi Tenant Function Controller)	MCM-C210N			DVM
	PIM (Pulse Interface Module)	MIM-B16UN			DVM, CAC
Installation /Test run Solution	S-Converter	MIM-C02N			DVM, CAC
Others	External Room Sensor	MRW-TA			DVM, CAC
	Operation Mode Selection Switch	MCM-C200			DVM
	Module Controller	MCM-A00N		CHILLER Only	CHILLER
	FCU Interface Module	MIM-F10N		CHILLER Only	CHILLER

NOTE

- In case you want to know more information the accessories, please refer to the control and accessories TDB on pvi.samsung.com site.

11. Accessory

Product	Image	Model	Remark
Y-Joint		MXJ-YA1509M	15.0 kW and below
		MXJ-YA2512M	Over 15.0 kW ~ 40.0 kW and below
		MXJ-YA2812M	Over 40.0 kW ~ 45.0 kW and below
		MXJ-YA2815M	Over 45.0 kW ~ 70.3 kW and below
		MXJ-YA3419M	Over 70.3 kW ~ 98.4 kW and below
		MXJ-YA4119M	Over 98.4 kW ~ 135.2 kW and below
		MXJ-YA4422M	Over 135.2 kW
Y-Joint (Only H/R)		MXJ-YA1500M	22.4 kW and below
		MXJ-YA2500M	Over 22.4 kW ~ 70.3 kW and below
		MXJ-YA3100M	Over 70.3 kW ~ 135.2 kW and below
		MXJ-YA3800M	Over 135.2 kW
Y-Joint Outdoor Unit		MXJ-TA3419M	135.2 kW and below
		MXJ-TA4122M	140.2 kW and Over
Y-Joint (Only H/R) Outdoor Unit		MXJ-TA3100M	135.2 kW and below
		MXJ-TA3800M	140.2 kW and Over
Distribution Header		MXJ-HA2512M	45.0 kW and below (for 4 rooms)
		MXJ-HA3115M	70.3 kW and below (for 8 rooms)
		MXJ-HA3819M	Over 70.3 kW ~ 135.2 kW and below (for 8 rooms)
MCU		MCU-S6NEK2N	6 ports, max 61.6kW (~16kW/1port)
		MCU-S4NEK3N	4 ports, max 61.6kW (~16kW/1port)
		MCU-S2NEK2N	2 ports, max 32.0kW (~16kW/1port)
		MCU-S1NEK1N	1 port, max 16.0kW (~16kW/1port)
EEV KIT		MEV-E24SA	1 Indoor
		MEV-E32SA	
		MXD-E24K132A	2 Indoor
		MXD-E24K200A	
		MXD-E32K200A	
		MXD-E24K232A	3 Indoor
		MXD-E24K300A	
		MXD-E32K224A	
		MXD-E32K300A	
		MXD-A38K2A	8~12 HP
		MXD-A12K2A	14~16 HP
		MXD-A58K2A	18~26 HP

NOTE

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11. Accessory

Product	Image	Model	Remark
ERV CO2 Sensor		MOS-C1	ERV, ERV PLUS
External room sensor		MRW-TA	Casssette, Wall-mount, Ceiling, Duct, Console
Drain Pump		MDP-N047SNC0D	OAP Duct (14.0 kW)
		MDP-N047SNC1D	HSP Duct (22.0 / 28.0 kW) OAP Duct (22.4 / 28.0 kW)
		MDP-M075SGU1D	MSP-0 / 1 Duct (9.2 / 11.2 kW)
		MDP-M075SGU2D	MSP-2 Duct (12.8 / 14.0 kW) HSP Duct (11.2 / 12.8 / 14.0 kW)
		MDP-M075SGU3D	MSP-S Duct (5.6 / 7.1 kW)
		MDP-E075SEE3D	Slim Duct (2.0~14.0 kW)
		MDP-G075SP	Duct S (External, All Capacities) BIG Duct
		MDP-G075SQ	Duct S (Internal, 3.5 kW~14 kW) BIG Duct
AHU KIT		MXD-K025AN	7.0 kW~8.75 kW
		MXD-K050AN	14.0 kW~17.5 kW
		MXD-K075AN	21.0 kW~26.25 kW
		MXD-K100AN	28.0 kW~35.0 kW
	 MXD -A64K100E	MCM-D201N	28 kW~35 kW / MDX-A64K100E X 1 EA 56 kW~70 kW / MDX-A64K100E X 2 EA 84 kW~105kW / MDX-A64K100E X 3 EA 112 kW~140 kW / MDX-A64K100E X 4 EA

NOTE

- In case you want to know more information the accessories, please refer to the control and accessories TDB on pvi.samsung.com site.

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