SAMSUNG

SINGLE

Technical Data Book

SINGLE for Europe

(R410A, HP)

Model : AC✳✳✳MN✳✳KH/EU (Indoor Unit), AC✳✳✳MXAD✳H/EU (Outdoor Unit)

History

Version	Modification	Date	Remark
Ver.1.0	Release Single TDB for Europe	16. 11. 02	
Ver.1.1	Add tCO2e data (Specifications)	16. 12. 09	
Ver.1.2	Modify Panel Spec of 4Way Cassette(600x600) (Model name, Net/Shipping Weight&Size)	17. 03. 09	
Ver.1.3	Revised the Additional Accessories information of LSP Duct	18. 07. 24	
Ver.1.4	Revised Outdoor Compressor Oil type	18. 09. 20	
Ver.1.5	Revised the Line up page (P.8 ~ P.9)	19. 06. 20	
Ver.1.6	Revised Outdoor Compressor Oil type	20. 10. 29	

Features & Benefits

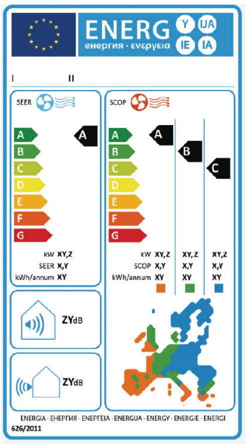
CAC - World-class energy efficiency

Maintain optimal comfort and control with energy and cost-efficient technologies

Featuring a suite of energy-optimizing technologies, Samsung CAC Single delivers top-class energy efficiency to support business in saving costs and the environment. Plus, CAC Single with its smart technologies fully complies with new European Union (EU) regulations for more efficient performance.

Small package, big performance

The Samsung Ceiling Type air conditioner boasts a slim, compact design—half the size of conventional products—with cooling power comparable to larger units.



New Energy Label

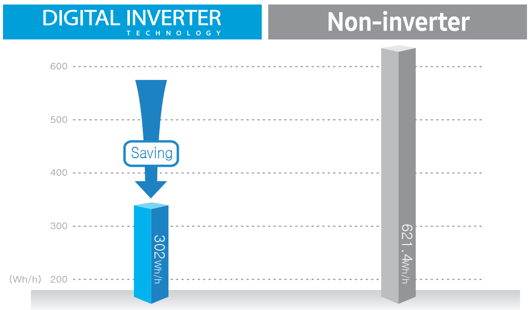
*Table 1: Introduction of revised energy consumption labelling for air conditioners as per EU Directive 2011/626/EU

Quick, efficient heating and cooling

Smart inverter technology offers powerful, quick cooling and heating with minimal electricity consumption, which means real cost savings and less energy waste. The EU has established new regulations to drastically cut the power consumption of air conditioners. Inefficient units will be gradually withdrawn from the market starting in 2013. To further support this initiative, the EU is introducing an improved energy labeling system to provide consumers a better idea of how much electricity their units consume.

Up to 50 percent less energy use

After reaching changes its operation mode to economical. By avoiding inefficient and frequent switching on and off of the compressor, the digital inverter saves up to 50 percent in energy consumption compared to non-inverter air conditioners.



Multi-unit operation

Instead of connecting just one indoor unit, users can connect two, three or four indoor units with a single outdoor unit for more efficient cooling and heating. The indoor units operate and are controlled simultaneously as one cycle within the same mode via one remote controller for up to four rooms. This system is ideal for spaces requiring multiple indoor units, such as open-plan offices or shops.

Outdoor Unit Capacity	2 Rooms	3 Rooms	4 Rooms
7.1kW	3.5 + 3.5		
10kW	5.2 + 5.2		
12kW	6.0 + 6.0	5.2 + 5.2 + 5.2	
14kW	7.1 + 7.1	5.2 + 5.2 + 5.2	3.5 + 3.5 + 3.5 + 3.5

*4Way & Mini4Way CST is available.

Features & Benefits

CAC Single - Superior performance

Stabilize the atmosphere with broad temperature allowance and control

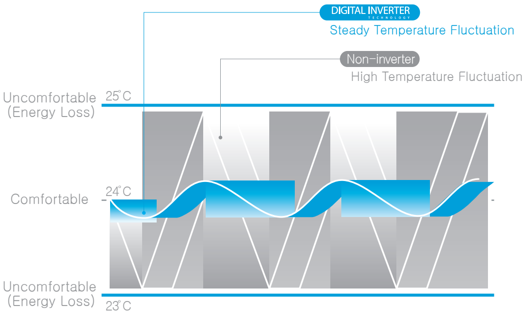
Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With a single unit, CAC Single delivers reliable comfort and control over multiple areas to ensure a pleasant atmosphere in any climate.

Wide temperature performance

No matter how extreme the temperature, the high-performing CAC Single can handle the condition-without the need for an additional unit. Featuring a wide temperature allowance, it can cool in heat of up to 50 and provide warmth in the freezing cold of -20°C to ensure a constant and comfortable home environment.

Ideal comfort in minutes

The CAC Single digital inverter air conditioner works at maximum capacity at startup. As soon as the temperature reaches the desired or set temperature, CAC Single performs fine adjustments to cope with any changes. This means less temperature fluctuation and ideal comfort in a matter of minutes.



Versatile piping installation

CAC Single outdoor units offer a selection of pipe directions. The internal pipe connection ports allow four different pipe directions, supporting a neater, more organized-looking unit upon installation.

Nomenclature

Indoor Unit

Model Name

AC	026	M	N	1	D	K	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

x 1/10 kW (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
A	A3050 (Wall Mounted)

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

K	1Φ, 220~240V, 50/60Hz

(8) Mode

H	Heat Pump

Nomenclature

Outdoor Unit

Model Name

AC	026	M	X	A	D	K	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

X 1/10 kW (3 digits)

(3) Version

H	2014
J	2015
K	2016
M	2017

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

A	Inv+Side+General Temp

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

K	1Φ, 220~240V, 50/60Hz
N	3Φ, 380~415V, 50/60Hz

(8) Mode

H	Heat Pump

Line-up

Indoor unit

Model	Capacity (kW)								
	2.6	3.5	5.2	6.0	7.1	9.0	10.0	12.0	14.0
1Way CST									
4Way CST (600x600)									
4Way CST									
360 CST									
LSP Duct									
MSP Duct									
Console									
Ceiling									
Wall Mounted Type									

Outdoor Unit

Model	Capacity (kW)								
	2.6	3.5	5.2	6.0	7.1	9.0	10.0	12.0	14.0
1Phase									
3Phase									

Line-up

DPM (Digital Pack Multi)

DPM Allowable Combination

Product	Outdoor unit	2 IDUs connection	3 IDUs connection	4 IDUs connection
		Indoor Unit	Indoor Unit	Indoor Unit
1 Way Cassette	AC071MXADKH	AC035MN1DKH x2	-	-
	AC100MXAD✱H	-	AC035MN1DKH x3	-
	AC120MXAD✱H	-	-	AC035MN1DKH x4
	AC140MXAD✱H	-	-	AC035MN1DKH x4
4Way Cassette (600x600)	AC071MXADKH	AC035MNNDKH x2	-	-
	AC100MXAD✱H	AC052MNNDKH x2	AC035MNNDKH x3	-
	AC120MXAD✱H	AC060MNNDKH x2	AC052MNNDKH x3	AC035MNNDKH x4
	AC140MXAD✱H	AC071MNNDKH x2	AC052MNNDKH x3	AC035MNNDKH x4
	AC200KXAPNH	-	AC060MNNDKH x3	AC052MNNDKH x4
			AC071MNNDKH x3	
	AC250KXAPNH	-	-	AC060MNNDKH x4
				AC071MNNDKH x4
4Way Cassette	AC100MXAD✱H	AC052MN4DKH x2	-	-
	AC120MXAD✱H	-	AC052MN4DKH x3	-
	AC140MXAD✱H	AC071MN4DKH x2	AC052MN4DKH x3	-
	AC200KXAPNH	AC090MN4DKH x2	AC071MN4DKH x3	AC052MN4DKH x4
		AC100MN4DKH x2		
	AC250KXAPNH	AC120MN4DKH x2	AC090MN4DKH x3	AC071MN4DKH x4
360 Cassette	AC140MXAD✱H	AC071MN4PKH x2	-	-
	AC200KXAPNH	AC090MN4PKH x2	AC071MN4PKH x3	-
		AC100MN4PKH x2		
	AC250KXAPNH	AC120MN4PKH x2	AC090MN4PKH x3	AC071MN4PKH x4
LSP Duct	AC071MXADKH	AC035MNLDKH x2	-	-
	AC100MXAD✱H	AC052MNLDKHx2	AC035MNLDKH x3	-
	AC120MXAD✱H	-	AC052MNLDKHx3	AC035MNLDKH x4
	AC140MXAD✱H	AC071MNLDKHx2	AC052MNLDKHx3	AC035MNLDKH x 4
	AC200KXAPNH	-	AC071MNLDKHx3	AC052MNLDKHx4
	AC250KXAPNH	-	-	AC071MNLDKHx4
MSP Duct	AC071MXADKH	AC035MNMDKH x2	-	-
	AC100MXAD✱H	AC052MNMDKH x2	AC035MNMDKH x3	-
	AC120MXAD✱H	AC060MNMDKH x2	AC052MNMDKH x3	AC035MNMDKH x4
	AC140MXAD✱H	AC071MNMDKH x2	AC052MNMDKH x3	AC035MNMDKH x4
	AC200KXAPNH	AC090MNMDKH x2	AC060MNMDKH x3	AC052MNMDKH x4
		AC100MNMDKH x2	AC071MNMDKH x3	
	AC250KXAPNH	AC120MNMDKH x2	AC090MNMDKH x3	AC060MNMDKH x4
				AC071MNMDKH x4

Line-up

Product	Outdoor unit	2 IDUs connection	3 IDUs connection	4 IDUs connection
		Indoor Unit	Indoor Unit	Indoor Unit
Console	AC071MXADKH	AC035MNJDKH x2	-	-
	AC100MXAD✱H	AC052MNJDKH x2	AC035MNJDKH x3	-
	AC120MXAD✱H	-	AC052MNJDKH x3	AC035MNJDKH x4
	AC140MXAD✱H	-	AC052MNJDKH x3	AC035MNJDKH x4
	AC200KXAPNH	-	-	AC052MNJDKH x4
Ceiling (Big Ceiling)	AC100MXAD✱H	AC052MNCDKH x2	-	-
	AC120MXAD✱H	-	AC052MNCDKH x3	-
	AC140MXAD✱H	AC071MNCDKH x2	AC052MNCDKH x3	-
	AC200KXAPNH	AC100MNCDKH x2	AC071MNCDKH x3	AC052MNCDKH x4
	AC250KXAPNH	AC120MNCDKH x2	-	AC071MNCDKH x4
Wall mounted type	AC071MXADKH	AC035MNADKH x2	-	-
	AC100MXAD✱H	AC052MNADKH x2	AC035MNADKH x3	-
	AC120MXAD✱H	-	AC052MNADKH x3	AC035MNADKH x4
	AC140MXAD✱H	AC071MNADKH x2	AC052MNADKH x3	AC035MNADKH x4
	AC200KXAPNH	AC100MNTDEH x 2	AC071MNADKH x3	AC052MNADKH x4
	AC250KXAPNH	-	-	AC071MNADKH x4

DPM KIT

DPM KIT	2 IDUs connection	3 IDUs connection	4 IDUs connection
	MXJ-2D2509K	MXJ-3D2509K	MXJ-4D2509K

Installation Connections

Items	Maximum allowable length
Max. pipe length after DPM kit	15m
Max. pipe length difference between IDUs after DPM kit	5m
Max. distance between IDUs	10m
Max. height difference between IDUs	0.5m
* Indoor units should be installed in one area which is not divided by a wall	

Contents

1Way Cassette

Features & Benefits

1Way Cassette

Slim 1Way Cassette
Discreet style and performance

Enhance any environment with the best of air conditioning performance and sleek style

Samsung Slim 1Way Cassette is an optimized air solution that suits both practical and aesthetic needs with its simple design and efficient cooling operation. The slim, rounded design of the Slim 1Way Cassette unit creates a near-seamless ceiling for a clean ambiance. And its progressive design, including superior blade technology, delivers high performance and easy management without compromise.

Visually appealing panel

Slim 1Way Cassette projects refined simplicity. The clean lines and simple display design make this a modern classic, which looks great with any interior.

Slim and compact design

At a height of only 135 mm, the Slim 1Way Cassette is the world's thinnest indoor air cooling unit. The compact, lightweight design makes installation and maintenance easier than ever with a panel area that's been reduced by 30 percent. And with its high performance and understated elegance, the unit blends seamlessly into interiors of all types and styles.

1. Specification

1Way Cassette

System	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	0.96 / 2.60 / 3.50	1.00 / 3.50 / 4.10
				Btu/h	3,300 / 8,900 / 11,900	3,400 / 11,900 / 14,000
			Heating (Min/Std/Max)	kW	0.98 / 3.30 / 4.40	1.00 / 4.00 / 5.00
				Btu/h	3,300 / 11,300 / 15,000	3,400 / 13,600 / 17,100
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.25 / 0.72 / 1.20	0.24 / 1.09 / 1.50
			Heating (Min/Std/Max)	kW	0.20 / 0.96 / 1.45	0.19 / 1.39 / 1.80
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 4.10 / 5.40	1.60 / 5.60 / 7.50
			Heating (Min/Std/Max)	A	1.40 / 4.90 / 7.00	1.30 / 6.20 / 10.50
		Current	MCA	A	11	11
			MFA	A	12.5	12.5
	Efficiency	EER	Cooling	W/W	3.61	3.21
		COP	Heating	W/W	3.44	2.88
		SEER (Cooling Energy Grade)		W/W	6.2 (A++)	6.1 (A++)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	2	2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm	6.35	6.35
				Φ, inch	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm	9.52	9.52
				Φ, inch	3/8	3/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	20	20
			Elevation	m	15	15
			Chargeless	m	20	20
	Wiring connections	Power Source Wire		mm^2	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg / tCO_2e	1.05 / 2.19	1.05 / 2.19

1. Specification

1Way Cassette

Indoor Unit	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fan	Type		-	Crossflow Fan	Crossflow Fan
		Quantity		EA	1	1
		Air Flow Rate	High/Mid/Low	CMM	7.3 / 6.5 / 5.8	9.0 / 8.2 / 7.2
				l/s	121.7 / 108.3 / 96.7	150.0 / 136.7 / 120.0
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Output		W x n	17 x 1	17 x 1
	Drain	Drain Pipe		Φ, mm	VP-20(OD26, ID20)	VP-20(OD26, ID20)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	30 / 27 / 24 / 23	33 / 30 / 27 / 26
		Sound Power Level		dB(A)	52	55
	External Dimension	Net Weight		kg	9.5	9.5
		Shipping Weight		kg	12.2	12.2
		Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410
		Shipping Dimensions (WxHxD)		mm	1173 x 231 x 487	1173 x 231 x 487
	Casing	Material		-	ABS	ABS
	Panel (1)	Model Name		-	PC1NUSMAN	PC1NUSMAN
		Type		-	Stripe Type	Stripe Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	3.1	3.1
		Shipping Weight		kg	6.4	6.4
		Net Dimensions (WxHxD)		mm	1180 x 25 x 460	1180 x 25 x 460
		Shipping Dimensions (WxHxD)		mm	1262 x 144 x 542	1262 x 144 x 542
	Panel (2)	Model Name		-	PC1NUPMAN	PC1NUPMAN
		Type		-	Z-Slide Type	Z-Slide Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	5.2	5.2
		Shipping Weight		kg	8.1	8.1
		Net Dimensions (WxHxD)		mm	1198 x 25 x 500	1198 x 25 x 500
		Shipping Dimensions (WxHxD)		mm	1275 x 152 x 580	1275 x 152 x 580
	Panel (3)	Model Name		-	PC1NWSMAN	PC1NWSMAN
		Type		-	Fluid Type	Fluid Type
		Material		-	ABS	ABS
		Color		-	White	White
		Net Weight		kg	5.5	5.5
		Shipping Weight		kg	7.2	7.2
		Net Dimensions (WxHxD)		mm	1198 x 25 x 500	1198 x 25 x 500
		Shipping Dimensions (WxHxD)		mm	1275 x 152 x 580	1275 x 152 x 580
	Control System	Infrared remote control		-	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-
		Air Filter		-	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-

1. Specification

1Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC026MN1DKH/EU	AC035MN1DKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER
		Output		kW	0.83	0.83
		Oil	Type	-	POE	POE
			Initial charge	cc	320	320
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		CMM	29	30
				l/s	483	500
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48
			Heating	dB(A)	47	48
		Sound Power Level		dB(A)	59	61
	External Dimension	Net Weight		kg	32.8	32.8
		Shipping Weight		kg	35.8	35.8
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

1Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026MN1DKH/EU	9.5	Max.	3.5	4.4	High	7.3 / 8.5	30	52
		Std.	2.6	3.3	Mid	6.5 / 7.2	27	-
		Min.	0.96	0.98	Low	5.8 / 6.5	24	-
AC035MN1DKH/EU	9.5	Max.	4.1	5.0	High	9.0 / 10.0	33	55
		Std.	3.5	4.0	Mid	8.2 / 8.4	30	-
		Min.	1.0	1.0	Low	7.2 / 7.3	27	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MN1DKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC035MN1DKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

1Way Cassette

(1) AC026MN1DKH/EU + AC026MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.50	2.00	0.52	2.70	2.00	0.53	2.80	2.10	0.54	2.90	2.20	0.55	2.90	2.20	0.55	3.10	2.10	0.56	3.20	2.10	0.57
21	2.40	1.90	0.54	2.50	2.00	0.55	2.60	2.00	0.56	2.70	2.10	0.58	2.80	2.10	0.58	2.90	2.00	0.59	3.10	2.00	0.60
35	2.30	1.80	0.68	2.40	1.90	0.69	2.50	1.90	0.71	2.60	2.00	0.72	2.70	2.00	0.73	2.80	1.90	0.73	2.90	1.90	0.75
46	2.00	1.70	0.61	2.10	1.80	0.62	2.10	1.80	0.64	2.20	1.90	0.65	2.30	1.90	0.65	2.40	1.80	0.66	2.50	1.80	0.67
50	1.50	1.40	0.54	1.60	1.40	0.55	1.60	1.40	0.56	1.70	1.50	0.58	1.70	1.50	0.58	1.80	1.50	0.59	1.90	1.40	0.60

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.30	1.27	2.30	1.26	2.30	1.25	2.30	1.24	2.20	1.22	2.20	1.21
-15	2.90	1.47	2.90	1.45	2.90	1.44	2.80	1.43	2.80	1.41	2.80	1.40
-5	3.30	1.37	3.30	1.36	3.20	1.34	3.20	1.33	3.20	1.32	3.10	1.30
0	3.40	1.18	3.40	1.16	3.40	1.15	3.30	1.14	3.30	1.13	3.30	1.12
7	3.40	0.98	3.30	0.97	3.30	0.96	3.30	0.95	3.20	0.94	3.20	0.93
24	4.40	1.13	4.30	1.12	4.30	1.10	4.20	1.09	4.20	1.08	4.20	1.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

1Way Cassette

(2) AC035MN1DKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.40	2.50	0.78	3.60	2.60	0.80	3.70	2.70	0.81	3.90	2.70	0.83	3.90	2.70	0.84	4.10	2.70	0.84	4.30	2.60	0.86
21	3.30	2.40	0.82	3.40	2.50	0.84	3.60	2.50	0.85	3.70	2.60	0.87	3.70	2.60	0.88	3.90	2.60	0.89	4.10	2.50	0.91
35	3.10	2.30	1.03	3.30	2.30	1.05	3.40	2.40	1.07	3.50	2.50	1.09	3.60	2.50	1.10	3.70	2.40	1.11	3.90	2.40	1.13
46	2.60	2.10	0.92	2.80	2.20	0.94	2.90	2.30	0.96	3.00	2.30	0.98	3.00	2.30	0.99	3.20	2.30	1.00	3.30	2.20	1.02
50	2.00	1.70	0.82	2.10	1.70	0.84	2.20	1.80	0.85	2.30	1.80	0.87	2.30	1.80	0.88	2.40	1.80	0.89	2.60	1.80	0.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.80	1.84	2.80	1.83	2.80	1.81	2.70	1.79	2.70	1.77	2.70	1.75
-15	3.50	2.13	3.50	2.11	3.50	2.09	3.40	2.06	3.40	2.04	3.40	2.02
-5	4.00	1.99	4.00	1.97	3.90	1.95	3.90	1.93	3.80	1.91	3.80	1.89
0	4.20	1.70	4.10	1.68	4.10	1.67	4.00	1.65	4.00	1.63	4.00	1.62
7	4.10	1.42	4.00	1.40	4.00	1.39	4.00	1.38	3.90	1.36	3.90	1.35
24	5.30	1.63	5.30	1.61	5.20	1.60	5.10	1.58	5.10	1.57	5.00	1.55

NOTE

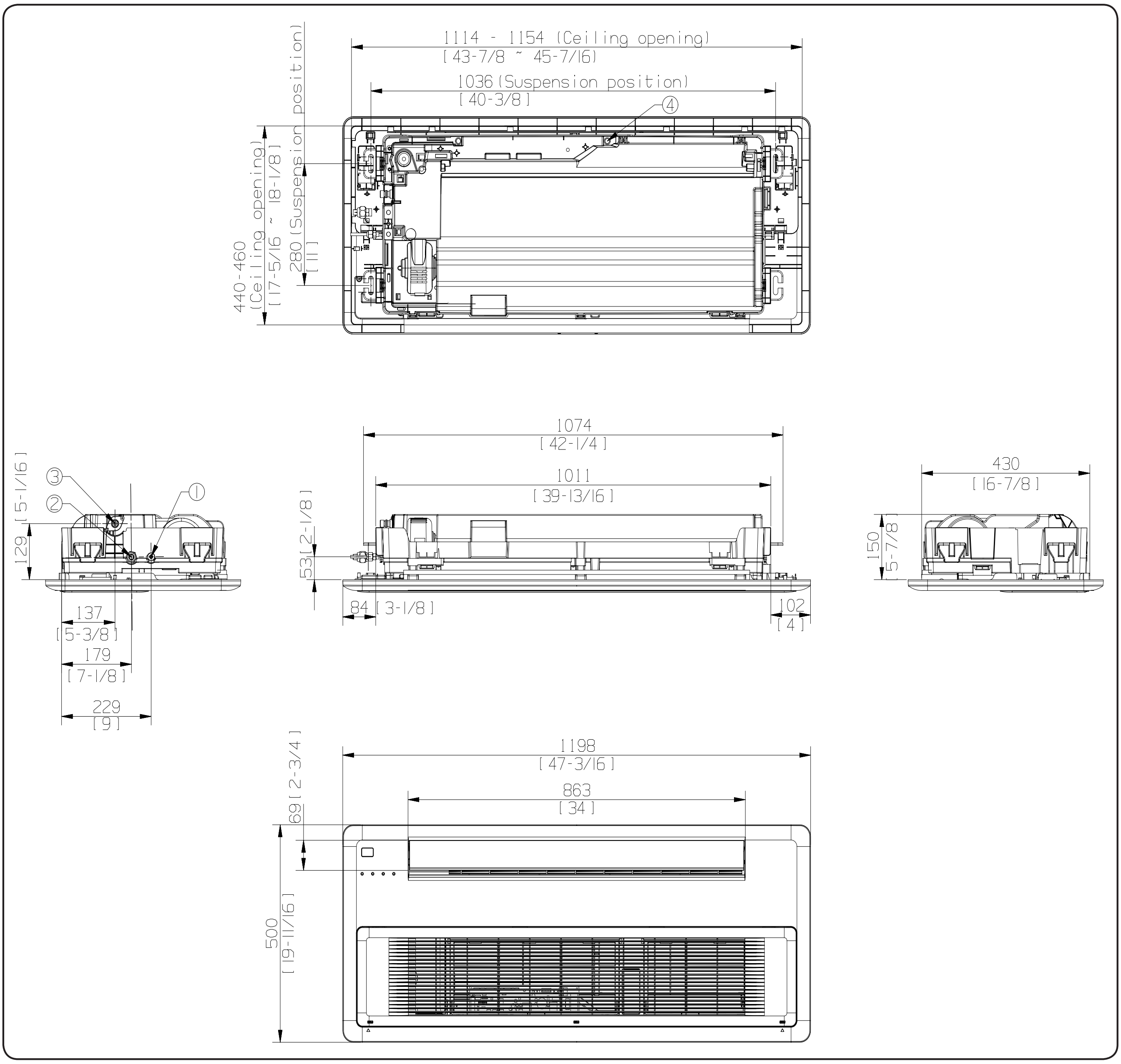
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

1Way Cassette

AC026/035MN1DKH/EU

Units : mm [inches]



NO	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ9.52(3/8)
3	Drain pipe connection	VP-20(OD26, ID20)
4	Power supply & Communication wiring conduit	

NOTE

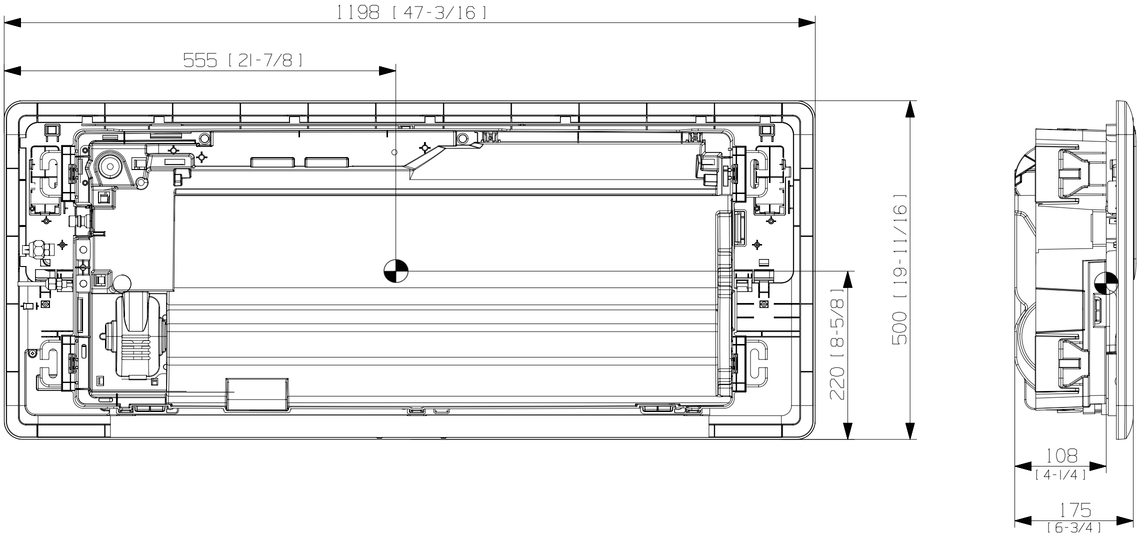
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

1Way Cassette

AC026/035MN1DKH/EU

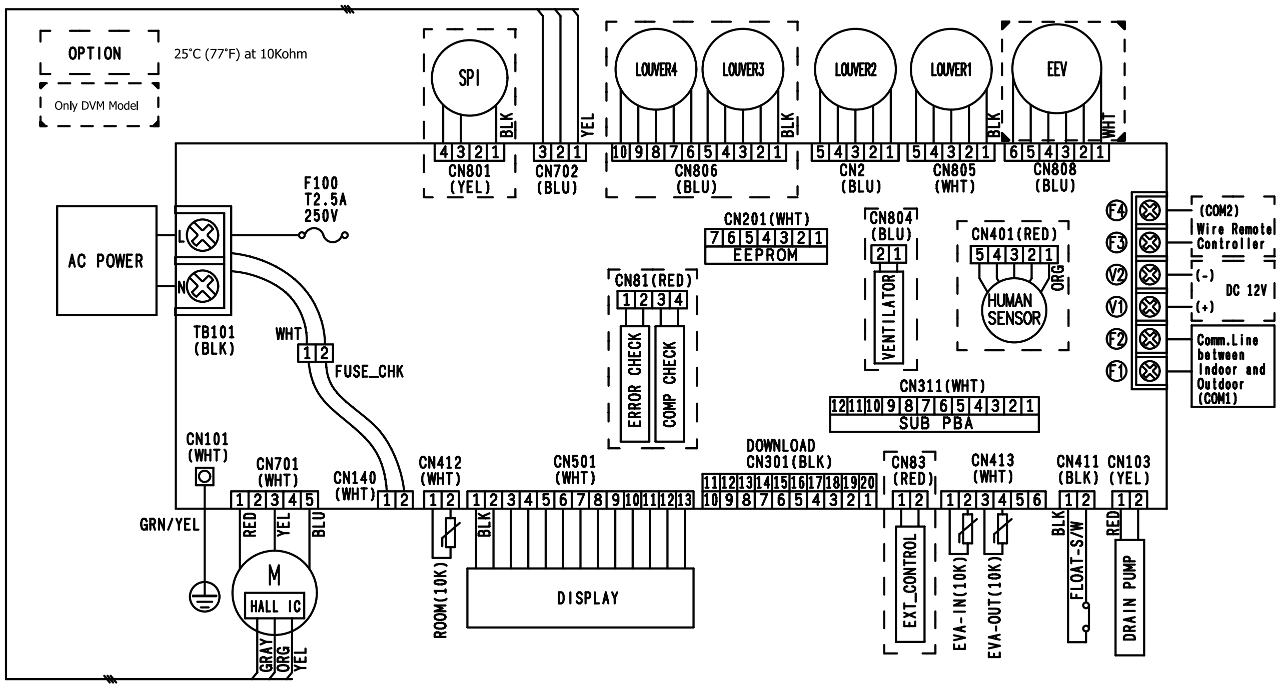
Units : mm [inches]



6. Electrical Wiring Diagram

1Way Cassette

AC026/035MN1DKH/EU



USE COPPER SUPPLY WIRES.

UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

E-PASS
DB68-03609A

DB68-03609A

LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION
OPERATION	DEFROST	TIMER	FAN	FILTER	○ON ◐FLICKERING XOFF
X	X	◐	X	X	ERROR OF ROOM TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◐	X	◐	X	X	ERROR OF EVA IN, OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	X	◐	X	ERROR OF INDOOR FAN
◐	X	X	◐	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP/COND/DISCHARGE)
X	X	◐	◐	X	NO COMMUNICATION FOR 2MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	X	◐	◐	◐	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	X	◐	◐	DETECTION OF THE FLOAT SWITCH
◐	◐	◐	◐	◐	EEPROM ERROR/EEPROM OPTION ERROR
X	X	X	X	◐	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◐	X	X	◐	◐	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
		EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

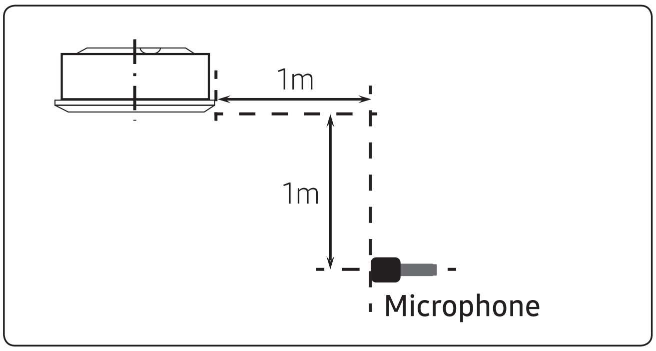
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N⁄ : The wire quantity

7. Sound Data

1Way Cassette

Sound Pressure level

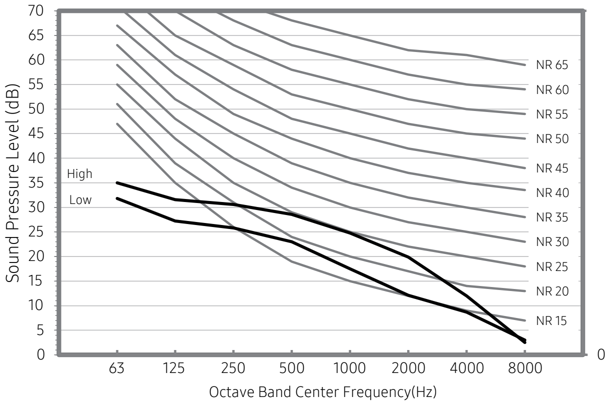
Unit: dB(A)



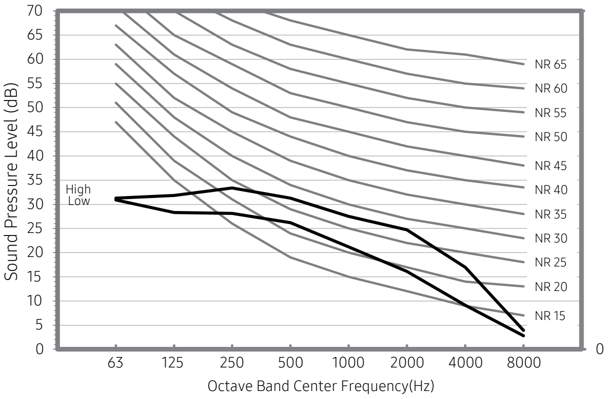
Model	Hi	MID	LOW
AC026MN1DKH/EU	30	27	24
AC035MN1DKH/EU	33	30	27

- NR Curve

  1) AC026MN1DKH/EU



  2) AC035MN1DKH/EU



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

7. Sound Data

1Way Cassette

Sound Power level

NOTE

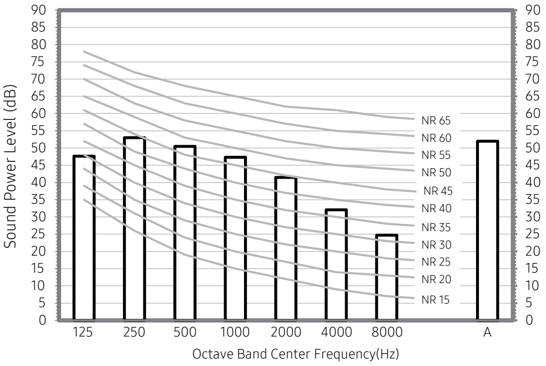
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

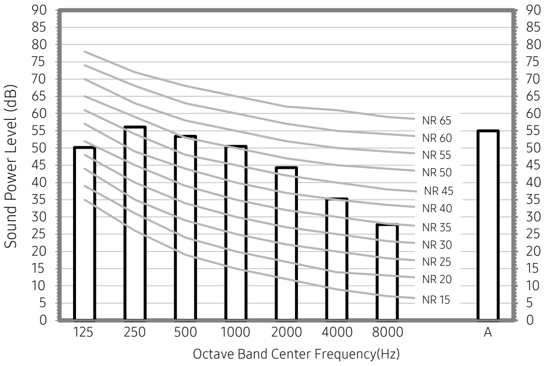
Model	Power
AC026MN1DKH/EU	52
AC035MN1DKH/EU	55

- NR Curve

1) AC026MN1DKH/EU



2) AC035MN1DKH/EU



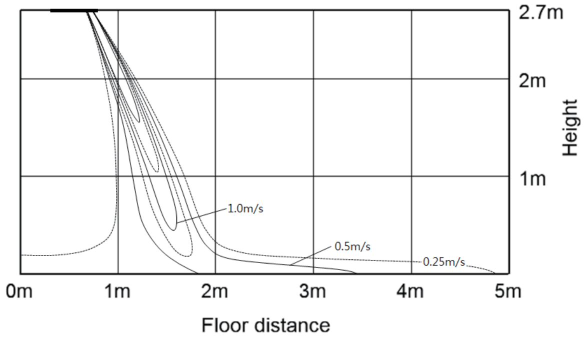
8. Temperature and air flow distribution

1Way Cassette

AC026MN1DKH/EU

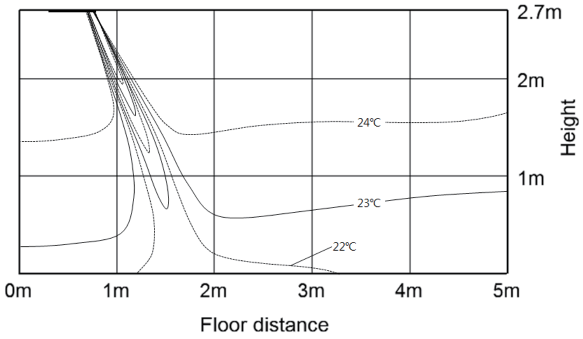
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



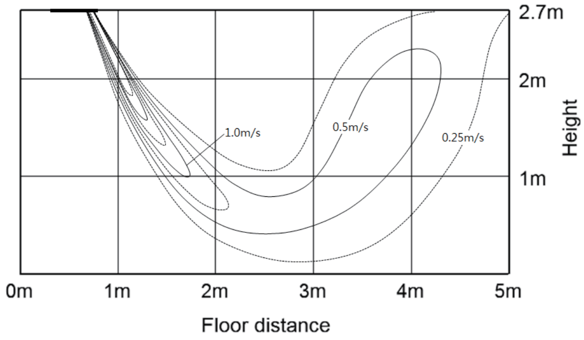
- Cooling temperature distribution

(Discharge angle : 60 degree)



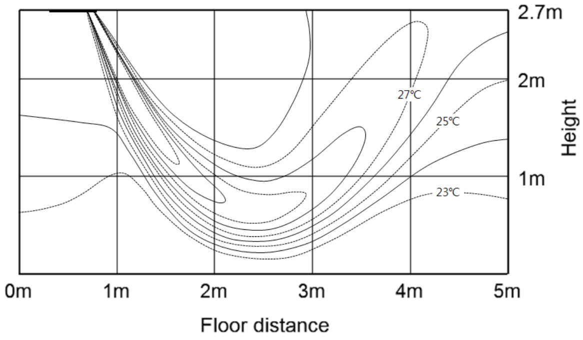
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



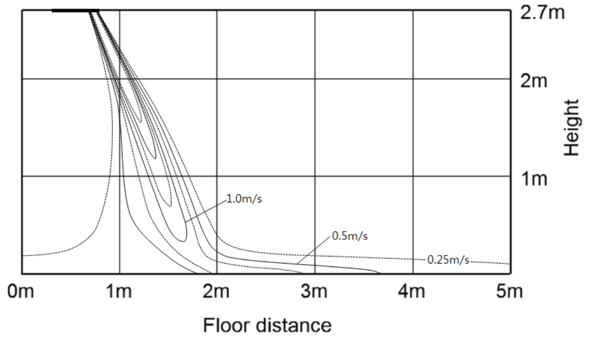
8. Temperature and air flow distribution

1Way Cassette

AC035MN1DKH/EU

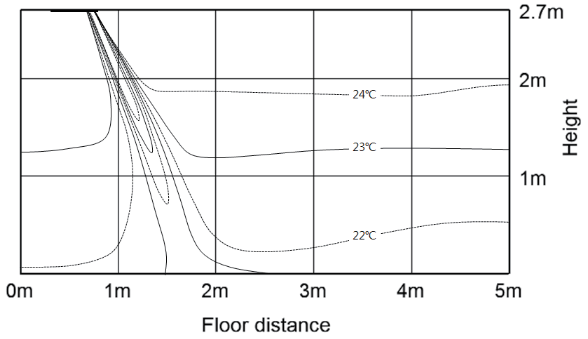
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



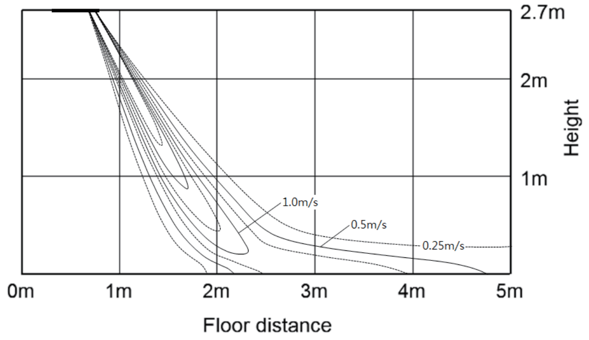
- Cooling temperature distribution

(Discharge angle : 60 degree)



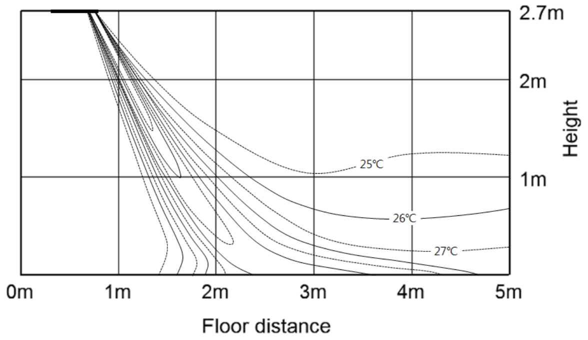
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



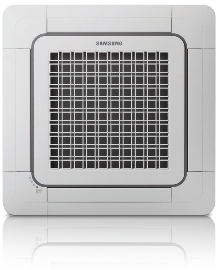
4Way Cassette (600x600)

Features & Benefits

4Way Cassette (600 x 600)

Add chic flair to your interior design with a stylish yet powerful AC system

Samsung's advanced 4Way Cassette (600 x 600) builds on the aesthetic appeal and performance of the standard 4Way Cassette with an enhanced design. The 4Way Cassette (600 x 600) comes in a variety of patterns to complement any interior. The stylish cassette unit visually harmonizes with the indoor space, while efficient cooling and heating performance make it a dependable and practical air conditioning solution.



The 4Way Cassette (600 x 600) indoor air conditioning system provides high-performance heating and cooling in an elegant design with features such as:

- **Tasteful design and compact, lightweight build.** Create a polished ambiance with a discreetly sized design and a choice of attractive panel patterns.
- **Enhanced comfort control.** Optimize comfort and save energy with optional motion detection.
- **Low maintenance and powerful airflow.** Ease installation and maintenance and maximize airflow with an efficient design and robust performance.

4Way Cassette (600 x 600) - Tasteful design, Compact, Lightweight build

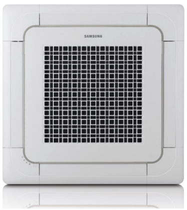
Refine the interior with an elegant, compact design

The enhanced Samsung 4Way Cassette (600 x 600) indoor air conditioner features a selection of simple panel patterns to blend seamlessly into any interior design. Its uniquely lightweight frame blends effortlessly and beautifully into any décor, while clever blade construction keeps the unit clean for a tidy appearance.

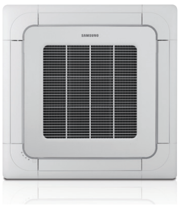
Attractive panel and display

The 4Way Cassette (600 x 600) features a fashionable panel with a simple, beveled corner design. The rounded panel frame promotes a neat, tidy look for an aesthetic flair that blends perfectly with any ambience.

Waffle Pattern



Classic Pattern

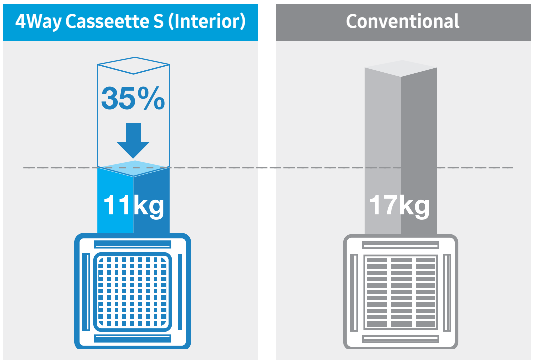


Ultra-compact size

Samsung's 4Way Cassette (600 x 600) air conditioner can be installed on a single standard ceiling tile (600W x 600D) which helps minimize installation time and effort.

Light, robust design

The Samsung 4Way Cassette (600 x 600) indoor unit is now lighter in weight at 11kg. It is the lightest indoor unit in the industry, about 35 percent lighter than our conventional products.



*Based on 3.5kW

1. Specification

4Way Cassette (600x600)

1.05 / 2.19	Model Name	Indoor Unit			AC026MNNDKH/EU	AC035MNNDKH/EU	AC052MNNDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.00 / 2.60 / 3.40	1.00 / 3.50 / 4.00	1.30 / 5.00 / 5.90
				Btu/h	3,400 / 8,900 / 11,600	3,400 / 11,900 / 13,600	4,400 / 17,100 / 20,100
			Heating (Min/Std/Max)	kW	0.98 / 3.40 / 4.10	1.00 / 4.00 / 4.80	1.30 / 5.50 / 7.50
				Btu/h	3,300 / 11,600 / 14,000	3,400 / 13,600 / 16,400	4,400 / 18,800 / 22,600
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.24 / 0.68 / 1.20	0.24 / 1.09 / 1.50	0.31 / 1.53 / 2.10
			Heating (Min/Std/Max)	kW	0.20 / 0.90 / 1.45	0.19 / 1.20 / 1.80	0.35 / 1.52 / 2.40
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 3.80 / 5.50	1.60 / 5.60 / 7.50	2.60 / 6.90 / 9.50
			Heating (Min/Std/Max)	A	1.30 / 4.80 / 7.00	1.30 / 5.80 / 10.50	2.90 / 6.90 / 11.00
		Current	MCA	A	11	11	21
			MFA	A	12.5	12.5	25
	Efficiency	EER	Cooling	W/W	3.82	3.21	3.27
		COP	Heating	W/W	3.78	3.92	3.62
		SEER (Cooling Energy Grade)		W/W	6.9 (A++)	6.8 (A++)	6.5 (A++)
		SCOP (Heating Energy Grade)		W/W	4.3 (A+)	4.3 (A+)	4.1 (A+)
		Pdesignh		kW	2.1	2.1	2.6
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	12.7
				Φ, inch	3/8	3/8	1/2
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	20	20	30
			Elevation	m	15	15	20
			Chargeless	m	20	20	5
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.05 / 2.19	1.05 / 2.19	1.3 / 2.71

1. Specification

4Way Cassette (600x600)

1.05 / 2.19 Indoor Unit	Model Name	Indoor Unit			AC026MNNDKH/EU	AC035MNNDKH/EU	AC052MNNDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	8.0 / 7.0 / 6.0	9.2 / 8.0 / 6.4	10.5 / 9.5 / 8.5
				l/s	133.3 / 116.7 / 100.0	153.3 / 133.3 / 106.7	175.0 / 158.3 / 141.7
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	65 x 1	65 x 1	65 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	31 / 28 / 25	34 / 30 / 25	39 / 34 / 29
		Sound Power Level		dB(A)	48	50	56
	External Dimension	Net Weight		kg	11.4	11.4	11.6
		Shipping Weight		kg	13.7	13.7	14
		Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
		Shipping Dimensions (WxHxD)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
	Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
	Panel (1)	Model Name		-	PC4SUSMBN	PC4SUSMBN	PC4SUSMBN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	Victory gray	Victory gray	Victory gray
		Net Weight		kg	2.3	2.3	2.3
		Shipping Weight		kg	3.5	3.5	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671	661 x 106 x 671
	Panel (2)	Model Name		-	PC4SUSMFN	PC4SUSMFN	PC4SUSMFN
		Type		-	Stripe Type	Stripe Type	Stripe Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	Victory gray	Victory gray	Victory gray
		Net Weight		kg	2.3	2.3	2.3
		Shipping Weight		kg	3.5	3.5	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671	661 x 106 x 671
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

4Way Cassette (600x600)

1.05 / 2.19	Model Name	Indoor Unit			AC026MNNDKH/EU	AC035MNNDKH/EU	AC052MNNDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	FMC
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Al
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER	UG9TK3150FE4
		Output		kW	0.83	0.83	1.42
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	320	320	500
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	29	30	40
				l/s	483	500	667
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48
			Heating	dB(A)	47	48	48
		Sound Power Level		dB(A)	59	61	62
	External Dimension	Net Weight		kg	32.8	32.8	43.8
		Shipping Weight		kg	35.8	35.8	47.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384	1023 x 730 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

4Way Cassette (600x600)

System	Model Name	Indoor Unit			AC060MNNDKH/EU	AC071MNNDKH/EU
		Outdoor Unit			AC060MXADKH/EU	AC071MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.80 / 5.80 / 6.50	2.20 / 6.80 / 8.00
				Btu/h	6,100 / 19,800 / 22,200	7,500 / 23,200 / 27,300
			Heating (Min/Std/Max)	kW	1.60 / 7.00 / 9.00	1.90 / 7.50 / 9.00
				Btu/h	5,500 / 23,800 / 30,700	6,500 / 25,600 / 30,700
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.38 / 2.15 / 2.60	0.35 / 2.72 / 3.95
			Heating (Min/Std/Max)	kW	0.35 / 2.32 / 3.60	0.35 / 2.80 / 3.95
		Current Input	Cooling (Min/Std/Max)	A	1.90 / 9.30 / 11.50	2.00 / 11.80 / 17.00
			Heating (Min/Std/Max)	A	1.70 / 10.00 / 17.30	2.00 / 12.30 / 17.00
		Current	MCA	A	21	21
			MFA	A	25	25
	Efficiency	EER	Cooling	W/W	2.70	2.50
		COP	Heating	W/W	3.02	2.68
		SEER (Cooling Energy Grade)		W/W	6.2 (A++)	6.0 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	3.8 (A)
		Pdesignh		kW	2.6	4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm	6.35	6.35
				Φ, inch	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm	12.7	15.88
				Φ, inch	1/2	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	30	50
			Elevation	m	20	30
			Chargeless	m	5	5
	Wiring connections	Power Source Wire		mm^2	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg / tCO_2e	1.3 / 2.71	1.5 / 3.13

1. Specification

4Way Cassette (600x600)

Indoor Unit	Model Name	Indoor Unit			AC060MNNDKH/EU	AC071MNNDKH/EU
		Outdoor Unit			AC060MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan
		Quantity		EA	1	1
		Air Flow Rate	High/Mid/Low	CMM	11.0 / 10.0 / 9.0	11.5 / 10.5 / 9.5
				l/s	183.3 / 166.7 / 150.0	191.7 / 175.0 / 158.3
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Output		W x n	65 x 1	65 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	41 / 37 / 32	42 / 39 / 36
		Sound Power Level		dB(A)	56	58
	External Dimension	Net Weight		kg	11.6	11.8
		Shipping Weight		kg	14	14.2
		Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575
		Shipping Dimensions (WxHxD)		mm	623 x 298 x 653	623 x 298 x 653
	Casing	Material		-	Polypropylene	Polypropylene
	Panel (1)	Model Name		-	PC4SUSMBN	PC4SUSMBN
		Type		-	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS
		Color		-	Victory gray	Victory gray
		Net Weight		kg	2.3	2.3
		Shipping Weight		kg	3.5	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671
	Panel (2)	Model Name		-	PC4SUSMFN	PC4SUSMFN
		Type		-	Stripe Type	Stripe Type
		Material		-	HIPS	HIPS
		Color		-	Victory gray	Victory gray
		Net Weight		kg	2.3	2.3
		Shipping Weight		kg	3.5	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671	661 x 106 x 671
	Control System	Infrared remote control		-	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-
		Air Filter		-	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option

1. Specification

4Way Cassette (600x600)

Outdoor Unit	Model Name	Indoor Unit			AC060MNNDKH/EU	AC071MNNDKH/EU
		Outdoor Unit			AC060MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	FMC	FMC
		Material	Fin	-	Al	Al
			Tube	-	Al	Al
		Fin Treatment		-	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9TK3150FE4	UG4T200FUAE4
		Output		kW	1.42	1.79
		Oil	Type	-	POE	POE
			Initial charge	cc	500	650
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		CMM	40	51
				l/s	667	850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	49	49
			Heating	dB(A)	49	51
		Sound Power Level		dB(A)	62	65
	External Dimension	Net Weight		kg	43.8	53
		Shipping Weight		kg	47.5	57.2
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	1023 x 730 x 413	1023 x 911 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

4Way Cassette (600x600)

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026MNNDKH/EU	11.4	Max.	3.4	4.1	High	8.0 / 10.0	31	48
		Std.	2.6	3.4	Mid	7.0 / 9.0	28	-
		Min.	1.0	0.98	Low	6.0 / 8.0	25	-
AC035MNNDKH/EU	11.4	Max.	4.0	4.8	High	9.2 / 10.4	34	50
		Std.	3.5	4.0	Mid	8.0 / 9.0	30	-
		Min.	1.0	1.0	Low	6.4 / 7.8	25	-
AC052MNNDKH/EU	11.6	Max.	5.9	7.5	High	10.5 / 10.5	39	56
		Std.	5.0	5.5	Mid	9.5 / 9.5	34	-
		Min.	1.3	1.3	Low	8.5 / 8.5	29	-
AC060MNNDKH/EU	11.6	Max.	6.5	9.0	High	11.0 / 11.0	41	56
		Std.	5.8	7.0	Mid	10.0 / 10.0	37	-
		Min.	1.8	1.6	Low	9.0 / 9.0	32	-
AC071MNNDKH/EU	11.8	Max.	8.0	9.0	High	11.5 / 11.5	42	58
		Std.	6.8	7.5	Mid	10.5 / 10.5	39	-
		Min.	2.2	1.9	Low	9.5 / 9.5	36	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MNNDKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC035MNNDKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC052MNNDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25
AC060MNNDKH/EU	AC060MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25
AC071MNNDKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

4Way Cassette (600x600)

(1) AC026MNNDKH/EU + AC026MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.54	2.15	0.49	2.67	2.21	0.50	2.78	2.28	0.51	2.87	2.35	0.52	2.92	2.33	0.52	3.07	2.30	0.53	3.22	2.26	0.54
21	2.42	2.04	0.51	2.54	2.11	0.52	2.65	2.17	0.53	2.73	2.24	0.54	2.78	2.22	0.55	2.92	2.19	0.55	3.07	2.15	0.57
35	2.30	1.95	0.64	2.42	2.01	0.65	2.52	2.07	0.67	2.60	2.13	0.68	2.65	2.11	0.69	2.78	2.09	0.69	2.92	2.05	0.71
46	1.96	1.80	0.58	2.06	1.86	0.59	2.14	1.92	0.60	2.21	1.97	0.61	2.25	1.95	0.62	2.37	1.93	0.62	2.49	1.90	0.64
50	1.50	1.42	0.51	1.57	1.46	0.52	1.64	1.51	0.53	1.69	1.55	0.54	1.72	1.54	0.55	1.81	1.52	0.55	1.90	1.49	0.57

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.39	1.19	2.37	1.18	2.35	1.17	2.32	1.16	2.30	1.15	2.28	1.14
-15	3.02	1.38	2.99	1.36	2.96	1.35	2.93	1.34	2.90	1.32	2.87	1.31
-5	3.40	1.29	3.37	1.27	3.33	1.26	3.30	1.25	3.27	1.23	3.23	1.22
0	3.54	1.10	3.50	1.09	3.47	1.08	3.43	1.07	3.40	1.06	3.36	1.05
7	3.47	0.92	3.43	0.91	3.40	0.90	3.37	0.89	3.33	0.88	3.30	0.87
24	4.51	1.06	4.46	1.05	4.42	1.04	4.38	1.02	4.33	1.01	4.29	1.00

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette (600x600)

(2) AC035MNNDKH/EU+ AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.68	0.78	3.59	2.76	0.80	3.74	2.84	0.81	3.86	2.93	0.83	3.94	2.90	0.84	4.13	2.87	0.84	4.34	2.82	0.86
21	3.25	2.55	0.82	3.42	2.63	0.84	3.56	2.71	0.85	3.68	2.79	0.87	3.75	2.77	0.88	3.94	2.74	0.89	4.13	2.68	0.91
35	3.10	2.43	1.03	3.26	2.50	1.05	3.40	2.58	1.07	3.50	2.66	1.09	3.57	2.63	1.10	3.75	2.61	1.11	3.94	2.55	1.13
46	2.63	2.26	0.92	2.77	2.33	0.94	2.89	2.40	0.96	2.98	2.48	0.98	3.03	2.45	0.99	3.19	2.43	1.00	3.35	2.38	1.02
50	2.01	1.79	0.82	2.12	1.84	0.84	2.21	1.90	0.85	2.28	1.96	0.87	2.32	1.94	0.88	2.44	1.92	0.89	2.56	1.88	0.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	1.59	2.79	1.58	2.76	1.56	2.73	1.54	2.71	1.53	2.68	1.51
-15	3.55	1.84	3.51	1.82	3.48	1.80	3.45	1.78	3.41	1.76	3.38	1.75
-5	4.00	1.71	3.96	1.70	3.92	1.68	3.88	1.66	3.84	1.65	3.80	1.63
0	4.16	1.47	4.12	1.45	4.08	1.44	4.04	1.43	4.00	1.41	3.96	1.40
7	4.08	1.22	4.04	1.21	4.00	1.20	3.96	1.19	3.92	1.18	3.88	1.16
24	5.30	1.41	5.25	1.39	5.20	1.38	5.15	1.37	5.10	1.35	5.05	1.34

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette (600x600)

(3) AC052MNNDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	3.72	1.09	5.13	3.84	1.12	5.35	3.96	1.14	5.51	4.08	1.16	5.62	4.04	1.17	5.90	4.00	1.19	6.20	3.92	1.21
21	4.64	3.55	1.15	4.89	3.66	1.18	5.09	3.77	1.20	5.25	3.89	1.22	5.36	3.85	1.24	5.62	3.81	1.25	5.90	3.73	1.27
35	4.42	3.38	1.44	4.66	3.48	1.47	4.85	3.59	1.50	5.00	3.70	1.53	5.10	3.66	1.55	5.36	3.63	1.56	5.62	3.55	1.59
46	3.76	3.15	1.30	3.96	3.25	1.32	4.12	3.35	1.35	4.25	3.46	1.38	4.34	3.42	1.39	4.55	3.39	1.40	4.78	3.32	1.43
50	2.88	2.49	1.15	3.03	2.57	1.18	3.15	2.65	1.20	3.25	2.73	1.22	3.32	2.70	1.24	3.48	2.68	1.25	3.65	2.62	1.27

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	3.87	2.02	3.83	2.00	3.80	1.98	3.76	1.96	3.72	1.94	3.68	1.92
-15	4.88	2.33	4.83	2.30	4.79	2.28	4.74	2.26	4.69	2.23	4.64	2.21
-5	5.50	2.17	5.44	2.15	5.39	2.13	5.34	2.11	5.28	2.09	5.23	2.06
0	5.72	1.86	5.67	1.84	5.61	1.82	5.55	1.81	5.50	1.79	5.44	1.77
7	5.61	1.55	5.56	1.54	5.50	1.52	5.45	1.50	5.39	1.49	5.34	1.47
24	7.29	1.78	7.22	1.77	7.15	1.75	7.08	1.73	7.01	1.71	6.94	1.70

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette (600x600)

(4) AC060MNNDKH/EU+ AC060MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.66	4.09	1.54	5.95	4.21	1.57	6.20	4.34	1.60	6.39	4.48	1.63	6.52	4.43	1.65	6.85	4.39	1.67	7.19	4.30	1.70
21	5.39	3.89	1.62	5.67	4.01	1.65	5.91	4.14	1.69	6.09	4.26	1.72	6.21	4.22	1.74	6.52	4.18	1.75	6.85	4.09	1.79
35	5.13	3.71	2.02	5.40	3.82	2.06	5.63	3.94	2.11	5.80	4.06	2.15	5.92	4.02	2.17	6.21	3.98	2.19	6.52	3.90	2.24
46	4.36	3.61	1.82	4.59	3.72	1.86	4.78	3.84	1.90	4.93	3.96	1.94	5.03	3.92	1.95	5.28	3.88	1.97	5.54	3.80	2.01
50	3.34	2.89	1.62	3.51	2.98	1.65	3.66	3.07	1.69	3.77	3.17	1.72	3.85	3.14	1.74	4.04	3.10	1.75	4.24	3.04	1.79

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.93	3.08	4.88	3.05	4.83	3.02	4.78	2.99	4.73	2.96	4.69	2.93
-15	6.21	3.55	6.15	3.51	6.09	3.48	6.03	3.45	5.97	3.41	5.91	3.38
-5	7.00	3.31	6.93	3.28	6.86	3.25	6.79	3.22	6.72	3.18	6.66	3.15
0	7.28	2.84	7.21	2.81	7.14	2.78	7.07	2.76	7.00	2.73	6.93	2.70
7	7.14	2.37	7.07	2.34	7.00	2.32	6.93	2.30	6.86	2.27	6.79	2.25
24	9.28	2.72	9.19	2.69	9.10	2.67	9.01	2.64	8.92	2.61	8.83	2.59

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette (600x600)

(5) AC071MNNDKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.63	4.58	1.95	6.98	4.73	1.99	7.27	4.87	2.03	7.50	5.02	2.07	7.65	4.97	2.09	8.03	4.92	2.11	8.43	4.82	2.15
21	6.32	4.37	2.05	6.65	4.50	2.09	6.93	4.64	2.13	7.14	4.78	2.18	7.28	4.74	2.20	7.65	4.69	2.22	8.03	4.59	2.26
35	6.02	4.16	2.56	6.33	4.29	2.61	6.60	4.42	2.67	6.80	4.56	2.72	6.94	4.51	2.75	7.28	4.47	2.77	7.65	4.38	2.83
46	5.11	3.92	2.30	5.38	4.04	2.35	5.61	4.17	2.40	5.78	4.30	2.45	5.90	4.25	2.47	6.19	4.21	2.50	6.50	4.13	2.55
50	3.91	3.11	2.05	4.12	3.20	2.09	4.29	3.30	2.13	4.42	3.40	2.18	4.51	3.37	2.20	4.73	3.34	2.22	4.97	3.27	2.26

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.28	3.71	5.23	3.68	5.18	3.64	5.12	3.60	5.07	3.57	5.02	3.53
-15	6.66	4.28	6.59	4.24	6.53	4.20	6.46	4.16	6.40	4.12	6.33	4.08
-5	7.50	4.00	7.42	3.96	7.35	3.92	7.28	3.88	7.20	3.84	7.13	3.80
0	7.80	3.43	7.73	3.39	7.65	3.36	7.57	3.33	7.50	3.29	7.42	3.26
7	7.65	2.86	7.58	2.83	7.50	2.80	7.43	2.77	7.35	2.74	7.28	2.72
24	9.95	3.28	9.85	3.25	9.75	3.22	9.65	3.19	9.56	3.16	9.46	3.12

NOTE

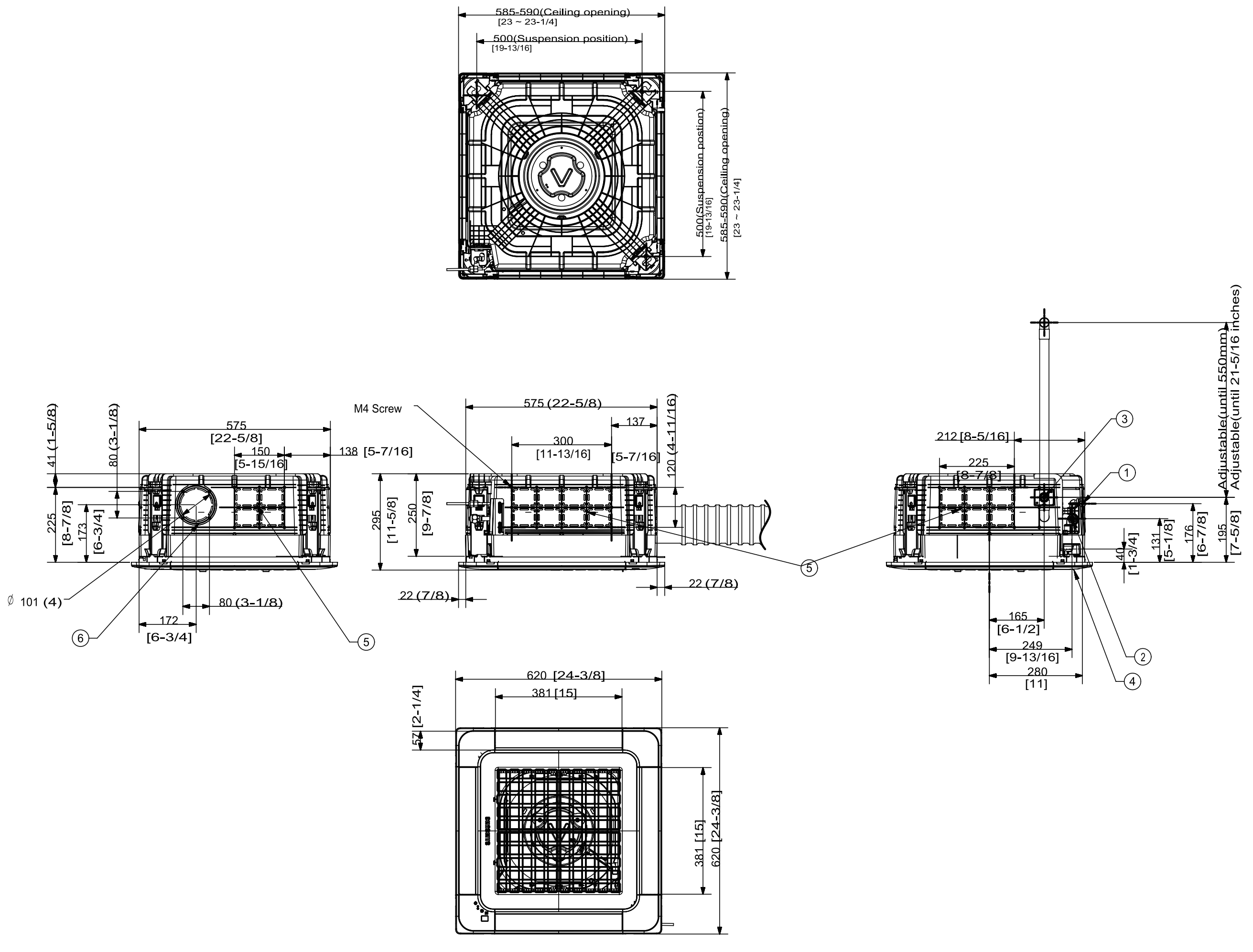
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

4Way Cassette (600x600)

AC026/035/052/060/071MNNDKH/EU

Units : mm [inches]



No.	Name	Description		
		AC026MNNDKH/EU	AC052MNNDKH/EU	AC071MNNDKH/EU
		AC035MNNDKH/EU	AC060MNNDKH/EU	
1	Liquid pipe connection	Φ6.35(1/4)		
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(3/8)
3	Drain pipe connection	VP-25(OD32, ID25)		
4	Power supply & Communication wiring conduit			
5	Sub duct connection	Use M4 Screw		
6	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw		

NOTE

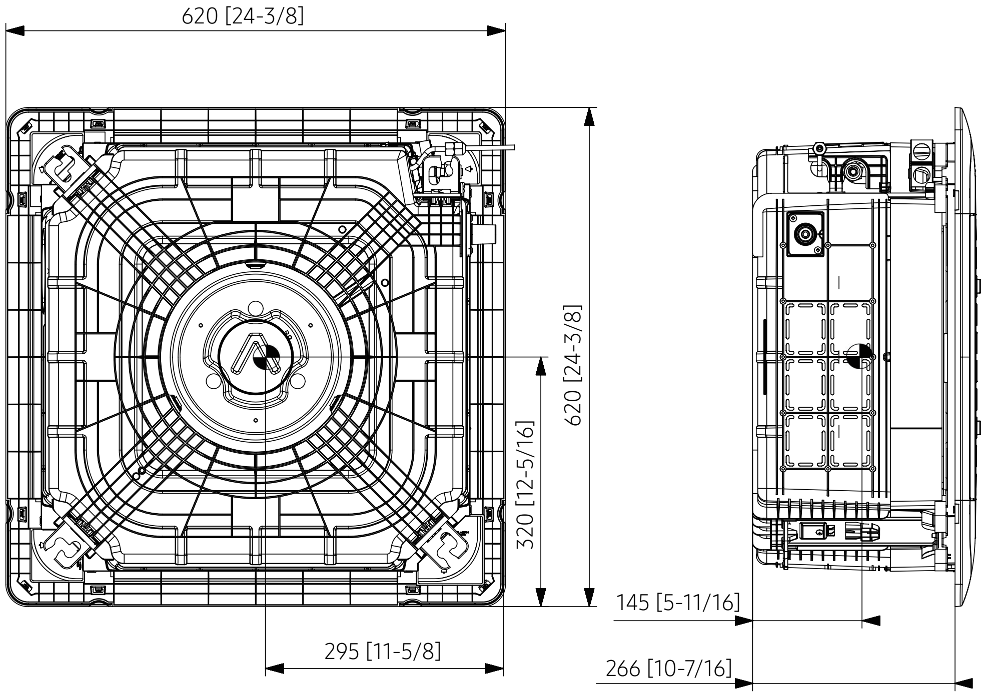
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

4Way Cassette (600x600)

AC026/035/052/060/071MNNDKH/EU

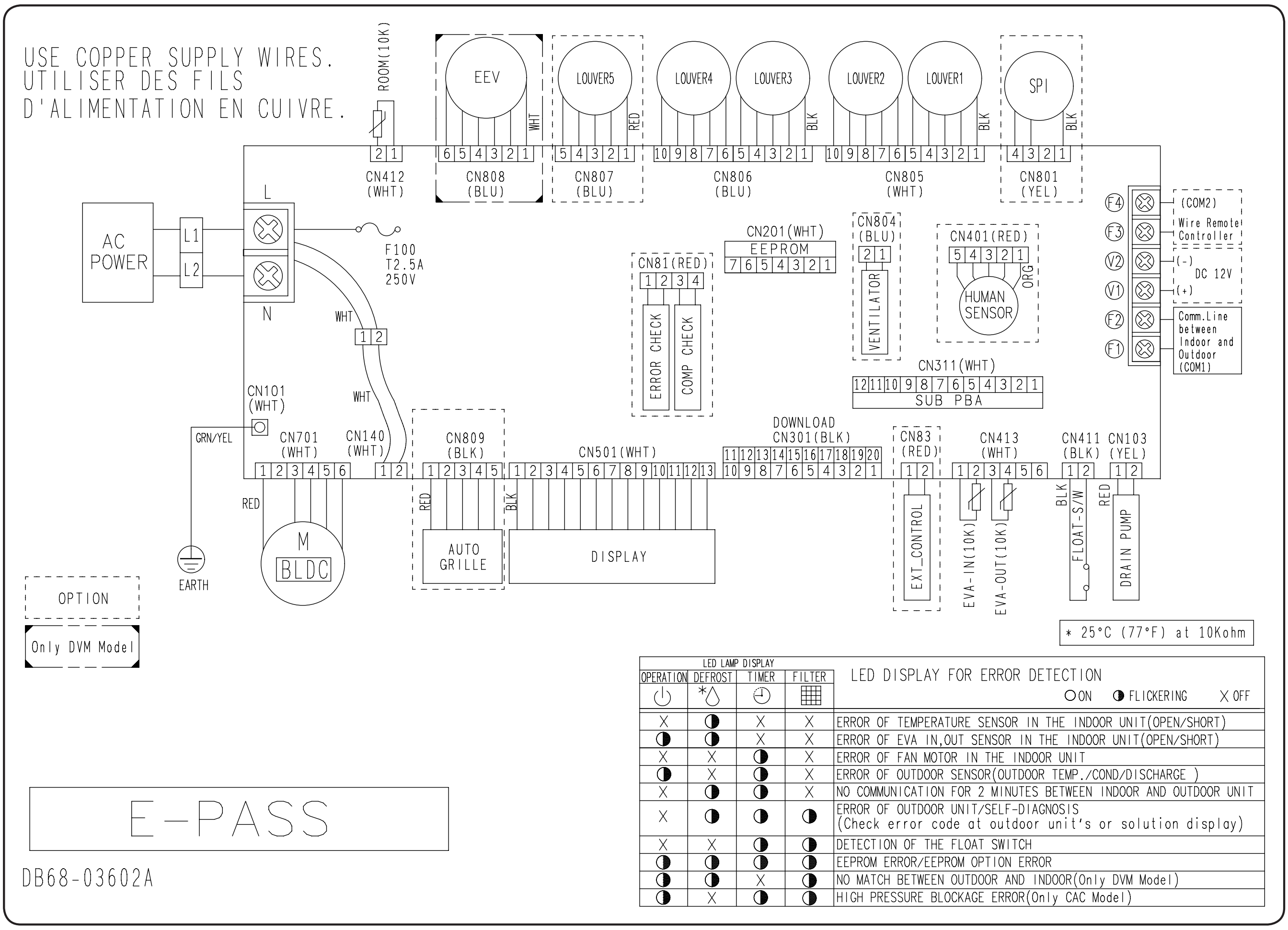
Units : mm [inches]



6. Electrical Wiring Diagram

4Way Cassette (600x600)

AC026/035/052/060/071MNNDKH/EU



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

LED LAMP DISPLAY				
OPERATION	DEFROST	TIMER	FILTER	
X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	ERROR OF FAN MOTOR IN THE INDOOR UNIT
◑	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	◑	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◑	X	◑	◑	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

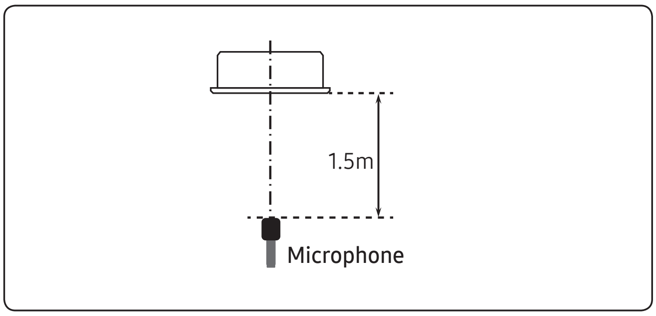
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, ⫽ : The wire quantity

7. Sound Data

4Way Cassette (600x600)

Sound Pressure level

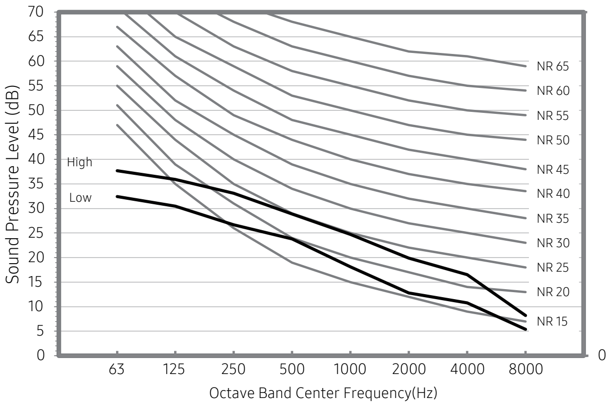
Unit: dB(A)



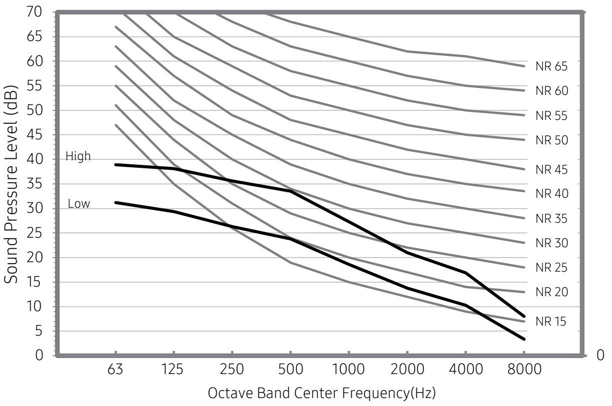
Model	Hi	MID	LOW
AC026MNNDKH/EU	31	28	25
AC035MNNDKH/EU	34	30	25
AC052MNNDKH/EU	39	34	29
AC060MNNDKH/EU	41	37	32

- NR Curve

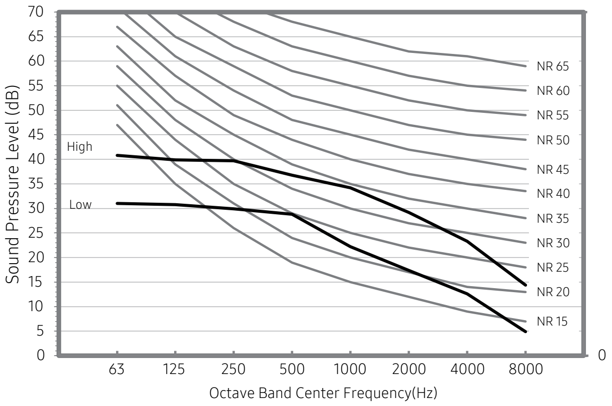
1) AC026MNNDKH/EU



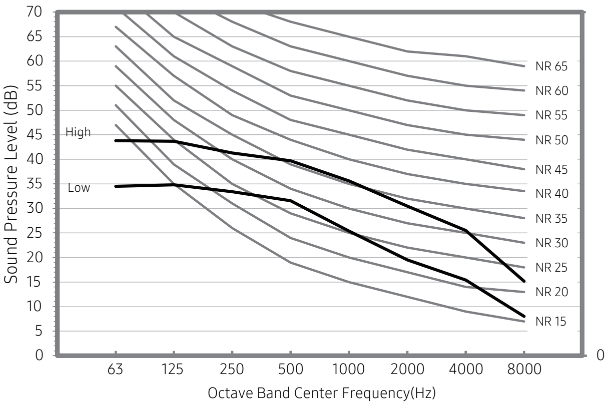
2) AC035MNNDKH/EU



3) AC052MNNDKH/EU



4) AC060MNNDKH/EU



NOTE

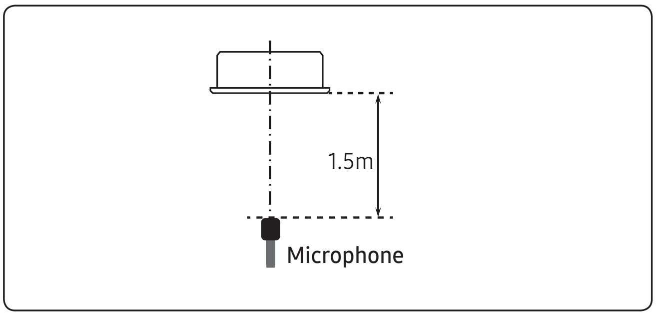
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

4Way Cassette (600x600)

Sound Pressure level

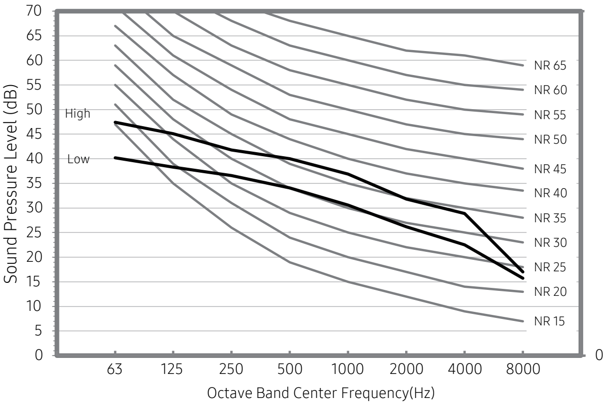
Unit: dB(A)



Model	Hi	MID	LOW
AC071MNNDKH/EU	42	39	36

- NR Curve

  5) AC071MNNDKH/EU



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

7. Sound Data

4Way Cassette (600x600)

Sound Power level

NOTE

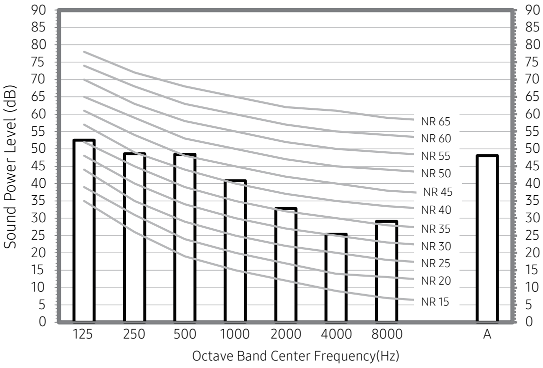
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

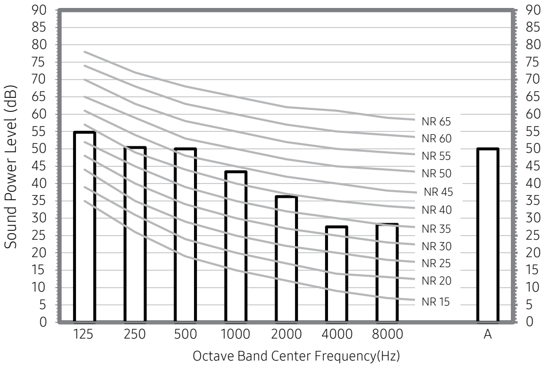
Model	Power
AC026MNNDKH/EU	48
AC035MNNDKH/EU	50
AC052MNNDKH/EU	56
AC060MNNDKH/EU	56
AC071MNNDKH/EU	58

- NR Curve

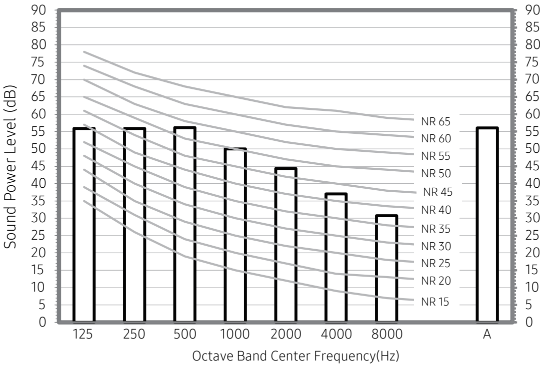
1) AC026MNNDKH/EU



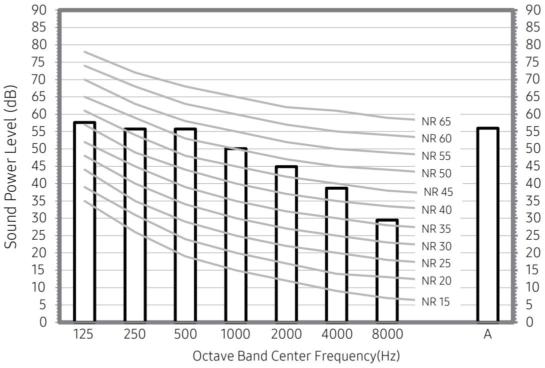
2) AC035MNNDKH/EU



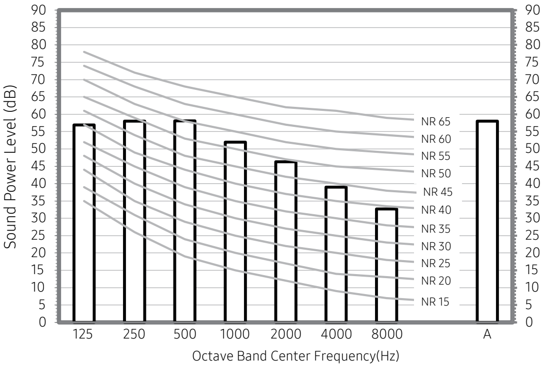
3) AC052MNNDKH/EU



4) AC060MNNDKH/EU



5) AC071MNNDKH/EU



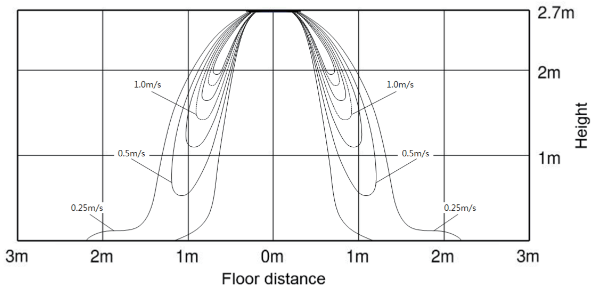
8. Temperature and air flow distribution

4Way Cassette (600x600)

AC026MNNDKH/EU

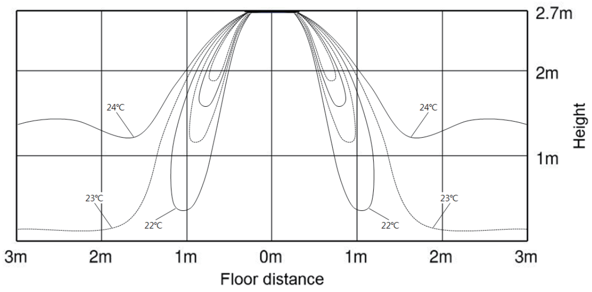
- Cooling Air Velocity distribution

(Discharge angle : 43 degree)



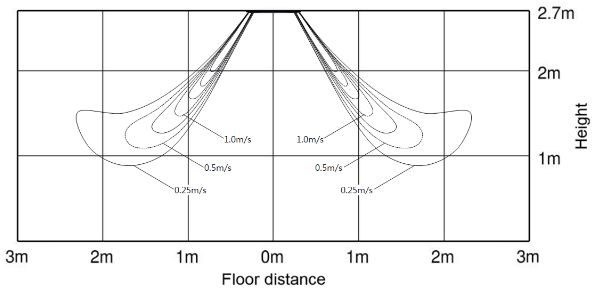
- Cooling temperature distribution

(Discharge angle : 43 degree)



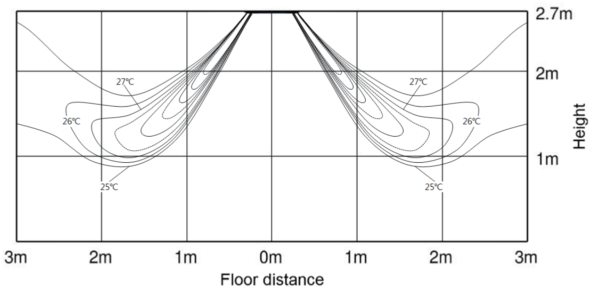
- Heating Air Velocity distribution

(Discharge angle : 50 degree)



- Heating temperature distribution

(Discharge angle : 50 degree)



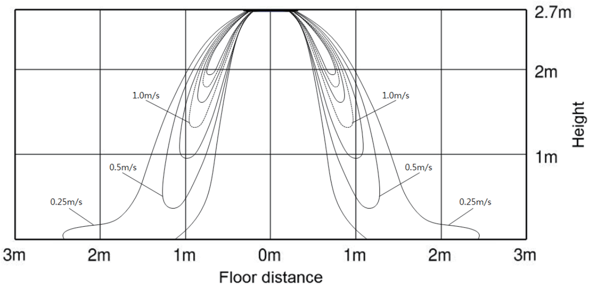
8. Temperature and air flow distribution

4Way Cassette (600x600)

AC035MNNDKH/EU

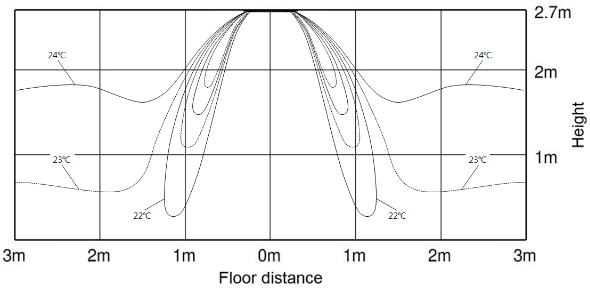
- Cooling Air Velocity distribution

(Discharge angle : 43 degree)



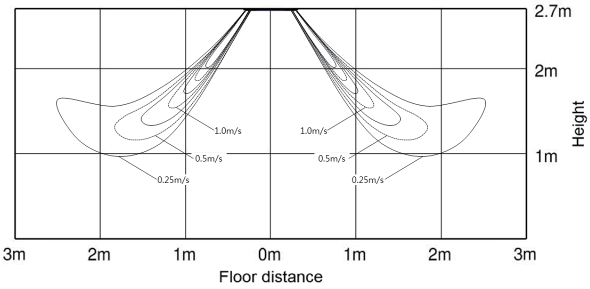
- Cooling temperature distribution

(Discharge angle : 43 degree)



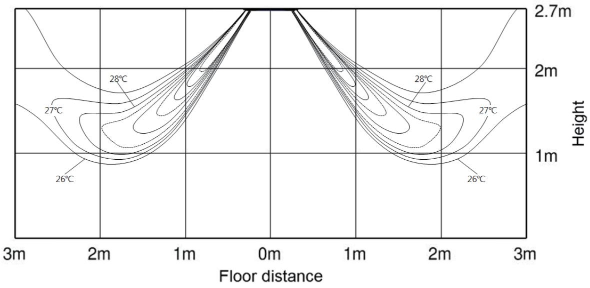
- Heating Air Velocity distribution

(Discharge angle : 50 degree)



- Heating temperature distribution

(Discharge angle : 50 degree)



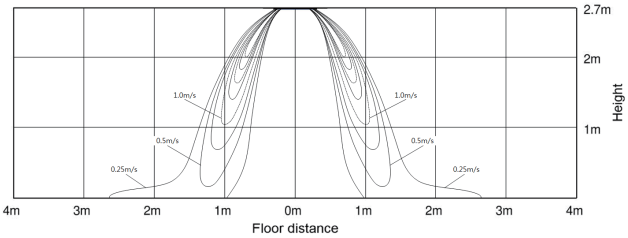
8. Temperature and air flow distribution

4Way Cassette (600x600)

AC052MNNDKH/EU

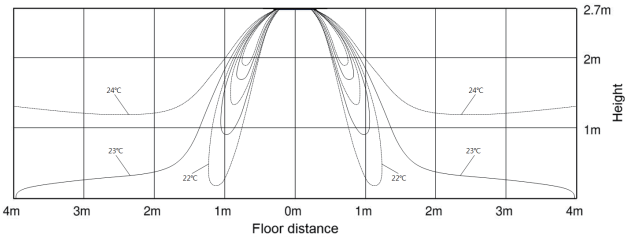
- Cooling Air Velocity distribution

  (Discharge angle : 43 degree)



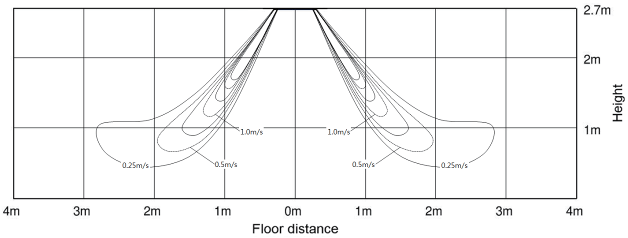
- Cooling temperature distribution

  (Discharge angle : 43 degree)



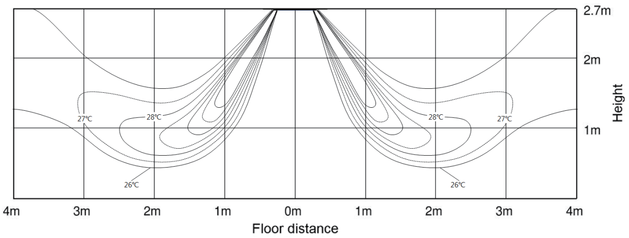
- Heating Air Velocity distribution

  (Discharge angle : 50 degree)



- Heating temperature distribution

  (Discharge angle : 50 degree)



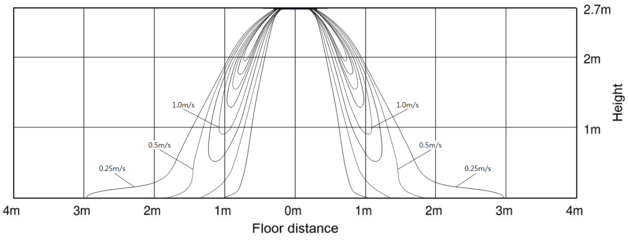
8. Temperature and air flow distribution

4Way Cassette (600x600)

AC060MNNDKH/EU

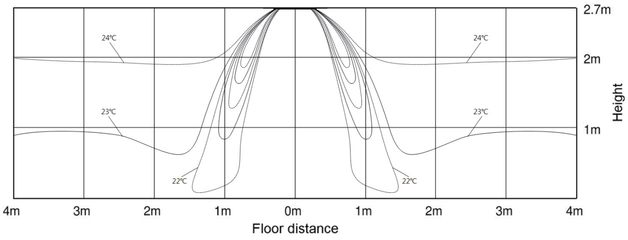
- Cooling Air Velocity distribution

(Discharge angle : 43 degree)



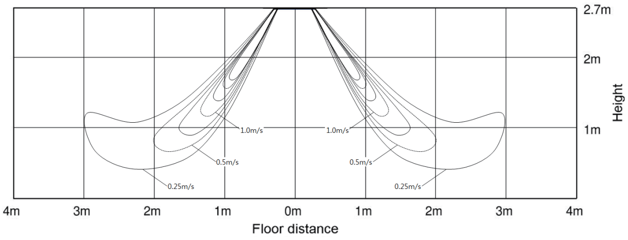
- Cooling temperature distribution

(Discharge angle : 43 degree)



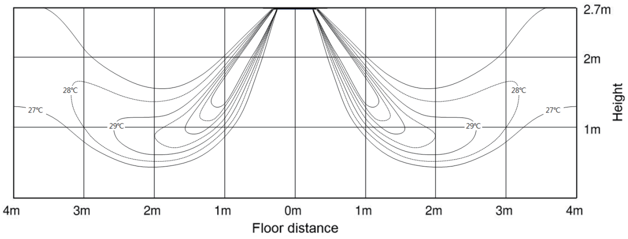
- Heating Air Velocity distribution

(Discharge angle : 50 degree)



- Heating temperature distribution

(Discharge angle : 50 degree)



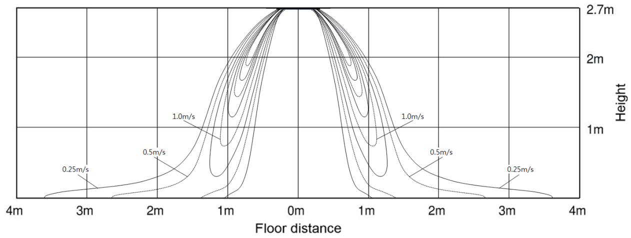
8. Temperature and air flow distribution

4Way Cassette (600x600)

AC071MNNDKH/EU

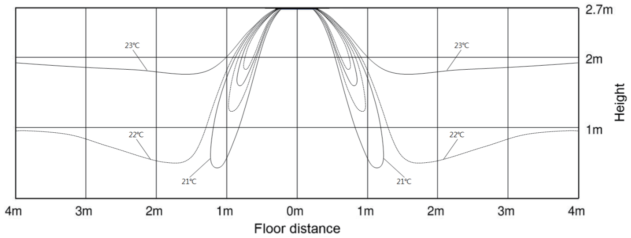
- Cooling Air Velocity distribution

(Discharge angle : 43 degree)



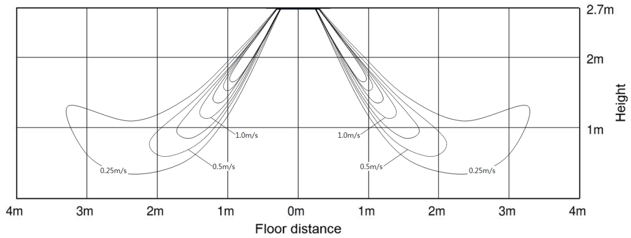
- Cooling temperature distribution

(Discharge angle : 43 degree)



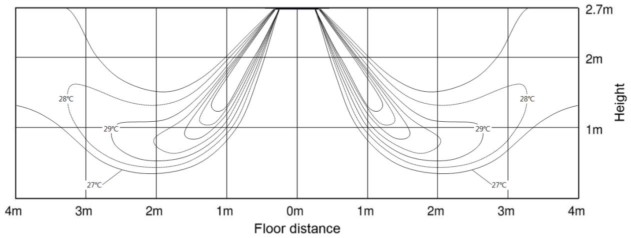
- Heating Air Velocity distribution

(Discharge angle : 50 degree)



- Heating temperature distribution

(Discharge angle : 50 degree)



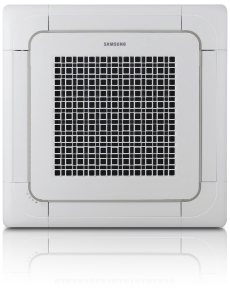
4Way Cassette

Features & Benefits

4Way Cassette S

Stage a beautiful yet comfortable environment

With its newly improved design, 4Way Cassette S supports a clean, aesthetically appealing atmosphere and adds a sense of sophistication to work and living spaces. Not only is this unit attractively designed, but it also uses advanced technologies to optimize comfort in any environment.



The Samsung 4Way Cassette S indoor air conditioning system delivers polish, comfort and efficiency with features such as:

- **Stylishly clean design.** Add panache to interior spaces with a choice of clean, streamlined panel patterns in a lightweight build.
- **Robust operation.** Control the atmosphere perfectly with an advanced design for superior air flow and cooling/heating performance.
- **Low maintenance and simple installation.** Ease installation and minimize maintenance with a detachable, no-drip design.

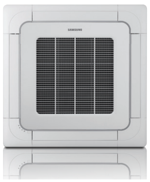
4Way Cassette S – Stylishly clean design

Complement any interior with a sleek, lightweight design

The new Samsung 4Way Cassette S indoor air conditioner comes in a choice of patterns with a simple panel to better match the interior design. Its uniquely lightweight frame makes installation easy, while clever blade construction keeps the unit clean for a tidy appearance.

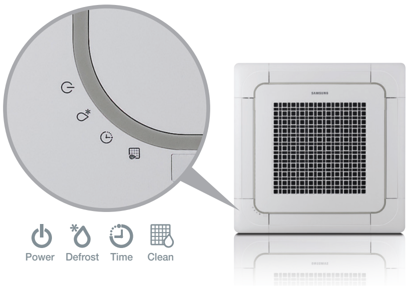
Waffle Pattern

Classic Pattern



Aesthetic panel and display

4Way Cassette S offers two different pattern designs for the panel. Users can select either the Waffle or Classic pattern to create just the right look to suit their design preference. Plus, the simple display design with rounded corners adds a chic sophistication to the interior.

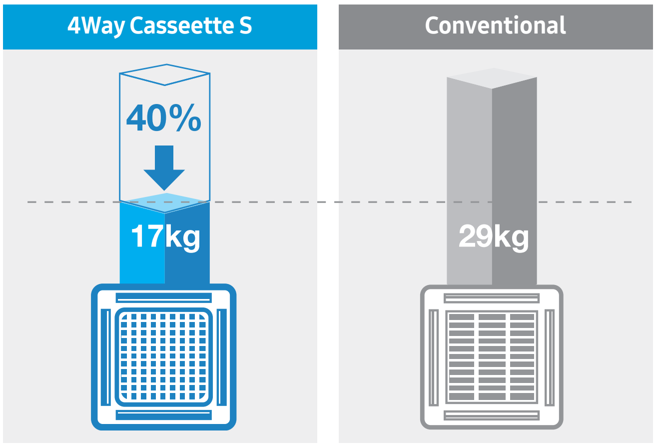


Neat and clean design

The indoor 4Way Cassette S boasts a smart design that promotes a neat and clean look. The completely hermetic blade structure keeps the indoor unit clean by preventing dust or other foreign substances from entering it. The internal parts of the indoor unit are also out of sight when the blade is shut, thus improving the unit's appearance.

Lightweight build

The Samsung 4Way Cassette S indoor unit is now lighter in weight at 17 kg. It is one of the lightest indoor units in the industry, about 40 percent lighter than conventional products.



*Based on 10kW

1. Specification

4Way Cassette

System	Model Name	Indoor Unit			AC052MN4DKH/EU	AC071MN4DKH/EU	AC090MN4DKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU	AC090MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.00 / 5.00 / 6.00	2.20 / 7.10 / 8.00	3.00 / 9.00 / 11.30
				Btu/h	3,400 / 17,100 / 20,500	7,500 / 24,200 / 27,300	10,200 / 30,700 / 38,600
			Heating (Min/Std/Max)	kW	1.00 / 6.00 / 7.00	1.90 / 8.00 / 9.00	2.20 / 10.00 / 13.90
				Btu/h	3,400 / 20,500 / 23,900	6,500 / 27,300 / 30,700	7,500 / 34,100 / 47,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.33 / 1.44 / 2.10	0.35 / 2.53 / 3.95	0.60 / 2.75 / 4.46
			Heating (Min/Std/Max)	kW	0.25 / 1.49 / 1.90	0.35 / 2.40 / 3.95	0.46 / 2.70 / 5.20
		Current Input	Cooling (Min/Std/Max)	A	1.50 / 6.50 / 9.50	2.00 / 11.20 / 17.00	3.00 / 12.00 / 19.40
			Heating (Min/Std/Max)	A	1.50 / 6.80 / 8.60	2.00 / 10.70 / 17.00	2.50 / 11.60 / 22.70
		Current	MCA	A	21	21	25
			MFA	A	25	25	30
	Efficiency	EER	Cooling	W/W	3.47	2.81	3.27
		COP	Heating	W/W	4.03	3.33	3.70
		SEER (Cooling Energy Grade)		W/W	6.9 (A++)	6.2 (A++)	6.8 (A++)
		SCOP (Heating Energy Grade)		W/W	4.3 (A+)	4.1 (A+)	4.3 (A+)
		Pdesignh		kW	2.6	4.5	6.3
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	9.52
				Φ, inch	1/4	1/4	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	12.7	15.88	15.88
				Φ, inch	1/2	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	30	50	50
			Elevation	m	20	30	30
			Chargeless	m	5	5	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.3 / 2.71	1.5 / 3.13	3.0 / 6.26

1. Specification

4Way Cassette

Indoor Unit	Model Name	Indoor Unit			AC052MN4DKH/EU	AC071MN4DKH/EU	AC090MN4DKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU	AC090MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	15.0 / 14.0 / 13.0	19.5 / 16.5 / 14.5	30.0 / 24.0 / 18.0
				l/s	250.0 / 233.3 / 216.7	325.0 / 275.0 / 241.7	500.0 / 400.0 / 300.0
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	65 x 1	65 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	33 / 31 / 29	36 / 33 / 29	43 / 38 / 33
		Sound Power Level		dB(A)	49	53	60
	External Dimension	Net Weight		kg	15	15	18
		Shipping Weight		kg	18	18	22
		Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 275 x 898	898 x 357 x 898
	Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
	Panel (1)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (2)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (3)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
		Type		-	Stripe Type	Stripe Type	Stripe Type
		Material		-	ABS	ABS	ABS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC052MN4DKH/EU	AC071MN4DKH/EU	AC090MN4DKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU	AC090MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	FMC	FMC	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Al	Al	Cu
		Fin Treatment		-	Hybrid Coating	Hybrid Coating	Green Hydrophile
	Compressor	Model Name			UG9TK3150FE4	UG4T200FUAE4	UG8T300FUBJU
		Output		kW	1.42	1.79	2.82
		Oil	Type	-	POE	POE	PVE
			Initial charge	cc	500	650	1200
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	40	51	78
				l/s	667	850	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	49	52
			Heating	dB(A)	48	51	53
		Sound Power Level		dB(A)	62	65	68
	External Dimension	Net Weight		kg	43.8	53	72
		Shipping Weight		kg	47.5	57.2	77
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1023 x 730 x 413	1023 x 911 x 413	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

4Way Cassette

System	Model Name	Indoor Unit			AC100MN4DKH/EU	AC100MN4DKH/EU	AC120MN4DKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.00 / 10.00 / 12.00	3.50 / 12.00 / 13.50
				Btu/h	10,200 / 34,100 / 40,900	10,200 / 34,100 / 40,900	11,900 / 40,900 / 46,100
			Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	2.20 / 11.20 / 15.50	3.50 / 13.00 / 15.50
				Btu/h	7,500 / 38,200 / 52,900	7,500 / 38,200 / 52,900	11,900 / 44,400 / 52,900
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.12 / 4.70	0.60 / 3.12 / 4.70	0.90 / 4.70 / 5.30
			Heating (Min/Std/Max)	kW	0.46 / 3.10 / 5.40	0.46 / 3.10 / 5.40	0.75 / 3.80 / 5.50
		Current Input	Cooling (Min/Std/Max)	A	3.00 / 13.60 / 20.40	1.50 / 4.80 / 7.10	4.30 / 21.10 / 23.00
			Heating (Min/Std/Max)	A	2.50 / 13.60 / 23.00	1.20 / 4.80 / 8.40	3.70 / 17.10 / 24.00
		Current	MCA	A	25	17.1	25
			MFA	A	30	17.1	30
	Efficiency	EER	Cooling	W/W	3.21	3.21	2.55
		COP	Heating	W/W	3.61	3.61	3.42
		SEER (Cooling Energy Grade)		W/W	6.8 (A++)	6.8 (A++)	5.7 (A+)
		SCOP (Heating Energy Grade)		W/W	4.3 (A+)	4.3 (A+)	4.1 (A+)
		Pdesignh		kW	6.3	6.3	7.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26

1. Specification

4Way Cassette

Indoor Unit	Model Name	Indoor Unit			AC100MN4DKH/EU	AC100MN4DKH/EU	AC120MN4DKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	31.0 / 25.0 / 19.0	31.0 / 25.0 / 19.0	32.0 / 26.0 / 20.0
				l/s	516.7 / 416.7 / 316.7	516.7 / 416.7 / 316.7	533.3 / 433.3 / 333.3
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	97 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 39 / 33	44 / 39 / 33	45 / 40 / 35
		Sound Power Level		dB(A)	61	61	61
	External Dimension	Net Weight		kg	18	18	18
		Shipping Weight		kg	22	22	22
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
	Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
	Panel (1)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (2)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (3)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
		Type		-	Stripe Type	Stripe Type	Stripe Type
		Material		-	ABS	ABS	ABS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC100MN4DKH/EU	AC100MN4DKH/EU	AC120MN4DKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG8T300FUBJU	UG8T300FUCJU	UG5TK1450FJX
		Output		kW	2.82	2.82	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1200	1200	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	78	78
				l/s	1300	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
			Heating	dB(A)	54	54	56
		Sound Power Level		dB(A)	69	69	70
	External Dimension	Net Weight		kg	72	72	77
		Shipping Weight		kg	77	77	82
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

4Way Cassette

System	Model Name	Indoor Unit			AC120MN4DKH/EU	AC140MN4DKH/EU	AC140MN4DKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.50 / 12.00 / 13.50	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50
				Btu/h	11,900 / 40,900 / 46,100	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900
			Heating (Min/Std/Max)	kW	3.50 / 13.00 / 15.50	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00
				Btu/h	11,900 / 44,400 / 52,900	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.90 / 4.70 / 7.90	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90
			Heating (Min/Std/Max)	kW	0.75 / 3.80 / 7.90	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	2.10 / 7.30 / 12.00	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00
			Heating (Min/Std/Max)	A	2.10 / 5.90 / 12.00	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00
		Current	MCA	A	17.1	33	17.1
			MFA	A	17.1	40	17.1
	Efficiency	EER	Cooling	W/W	2.55	3.01	3.01
		COP	Heating	W/W	3.42	3.41	3.41
		SEER (Cooling Energy Grade)		W/W	5.7 (A+)	3.0	3.0
		SCOP (Heating Energy Grade)		W/W	4.1 (A+)	3.4	3.4
		Pdesignh		kW	7.4	-	-
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	75	75
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.4 / 7.10	3.4 / 7.10

1. Specification

4Way Cassette

Indoor Unit	Model Name	Indoor Unit			AC120MN4DKH/EU	AC140MN4DKH/EU	AC140MN4DKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	32.0 / 26.0 / 20.0	32.0 / 27.0 / 22.0	32.0 / 27.0 / 22.0
				l/s	533.3 / 433.3 / 333.3	533.3 / 450.0 / 366.6	533.3 / 450.0 / 366.6
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	97 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 40 / 35	45 / 41 / 37	45 / 41 / 37
		Sound Power Level		dB(A)	61	61	61
	External Dimension	Net Weight		kg	18	20	20
		Shipping Weight		kg	22	24	24
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
	Casing	Material		-	Polypropylene	Polypropylene	Polypropylene
	Panel (1)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (2)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
		Type		-	Waffle Type	Waffle Type	Waffle Type
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Panel (3)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
		Type		-	Stripe Type	Stripe Type	Stripe Type
		Material		-	ABS	ABS	ABS
		Color		-	White	White	White
		Net Weight		kg	5.9	5.9	5.9
		Shipping Weight		kg	8	8	8
		Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC120MN4DKH/EU	AC140MN4DKH/EU	AC140MN4DKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG5TK1450FJX	UG5TK1450FJX	UG5TK1450FJX
		Output		kW	4.19	4.19	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1700	1700	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	2	2
		Air Flow Rate		CMM	78	111	111
				l/s	1300	1850	1850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
			Heating	dB(A)	56	54	54
		Sound Power Level		dB(A)	70	69	69
	External Dimension	Net Weight		kg	77	87	87
		Shipping Weight		kg	82	97	97
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1388 x 426	995 x 1388 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

4Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052MN4DKH/EU	15	Max.	6.0	7.0	High	15.0 / 15.0	33	49
		Std.	5.0	6.0	Mid	14.0 / 14.0	31	-
		Min.	1.0	1.0	Low	13.0 / 13.0	29	-
AC071MN4DKH/EU	15	Max.	8.0	9.0	High	19.5 / 19.5	36	53
		Std.	7.1	8.0	Mid	16.5 / 16.5	33	-
		Min.	2.2	1.9	Low	14.5 / 14.5	29	-
AC090MN4DKH/EU	18	Max.	11.3	13.9	High	30.0 / 30.0	43	60
		Std.	9.0	10.0	Mid	24.0 / 24.0	38	-
		Min.	3.0	2.2	Low	18.0 / 18.0	33	-
AC100MN4DKH/EU	18	Max.	12.0	15.5	High	31.0 / 31.0	44	61
		Std.	10.0	11.2	Mid	25.0 / 25.0	39	-
		Min.	3.0	2.2	Low	19.0 / 19.0	33	-
AC120MN4DKH/EU	18	Max.	13.5	15.5	High	32.0 / 32.0	45	61
		Std.	12.0	13.0	Mid	26.0 / 26.0	40	-
		Min.	3.5	3.5	Low	22.0 / 22.0	35	-
AC140MN4DKH/EU	20	Max.	15.5	18.0	High	34.0 / 34.0	45	61
		Std.	13.4	15.5	Mid	27.0 / 27.0	41	-
		Min.	3.5	3.5	Low	23.0 / 23.0	37	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC052MN4DKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25
AC071MN4DKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25
AC090MN4DKH/EU	AC090MXADKH/EU	50	220 to 240	198	264	24	24	1	25	25	30
AC100MN4DKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	1	25	25	30
AC100MN4DKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1	17.1	17.1	17.1
AC120MN4DKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	1	25	25	30
AC120MN4DKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1	17.1	17.1	17.1
AC140MN4DKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	1	33	33	40
AC140MN4DKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1	17.1	17.1	17.1

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

4Way Cassette

(1) AC052MN4DKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	4.13	1.03	5.13	4.25	1.05	5.35	4.38	1.07	5.51	4.52	1.09	5.62	4.48	1.11	5.90	4.43	1.12	6.20	4.34	1.14
21	4.64	3.93	1.08	4.89	4.05	1.11	5.09	4.18	1.13	5.25	4.31	1.15	5.36	4.26	1.16	5.62	4.22	1.18	5.90	4.13	1.20
35	4.42	3.74	1.36	4.66	3.86	1.38	4.85	3.98	1.41	5.00	4.10	1.44	5.10	4.06	1.45	5.36	4.02	1.47	5.62	3.94	1.50
46	3.76	3.47	1.22	3.96	3.57	1.24	4.12	3.68	1.27	4.25	3.80	1.30	4.34	3.76	1.31	4.55	3.72	1.32	4.78	3.65	1.35
50	2.88	2.73	1.08	3.03	2.81	1.11	3.15	2.90	1.13	3.25	2.99	1.15	3.32	2.96	1.16	3.48	2.93	1.18	3.65	2.87	1.20

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	1.98	4.18	1.96	4.14	1.94	4.10	1.92	4.06	1.90	4.02	1.88
-15	5.32	2.28	5.27	2.26	5.22	2.24	5.17	2.21	5.12	2.19	5.06	2.17
-5	6.00	2.13	5.94	2.11	5.88	2.09	5.82	2.07	5.76	2.04	5.71	2.02
0	6.24	1.82	6.18	1.81	6.12	1.79	6.06	1.77	6.00	1.75	5.94	1.73
7	6.12	1.52	6.06	1.50	6.00	1.49	5.94	1.48	5.88	1.46	5.82	1.45
24	7.96	1.75	7.88	1.73	7.80	1.71	7.72	1.70	7.64	1.68	7.57	1.66

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(2) AC071MN4DKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	5.29	1.81	7.29	5.45	1.85	7.59	5.62	1.88	7.83	5.79	1.92	7.98	5.73	1.94	8.38	5.68	1.96	8.80	5.56	2.00
21	6.59	5.03	1.90	6.94	5.19	1.94	7.23	5.35	1.98	7.46	5.52	2.02	7.60	5.46	2.04	7.98	5.41	2.06	8.38	5.30	2.11
35	6.28	4.80	2.38	6.61	4.94	2.43	6.89	5.10	2.48	7.10	5.25	2.53	7.24	5.20	2.56	7.60	5.15	2.58	7.98	5.05	2.63
46	5.34	4.48	2.14	5.62	4.62	2.19	5.85	4.76	2.23	6.04	4.91	2.28	6.16	4.86	2.30	6.46	4.81	2.32	6.79	4.71	2.37
50	4.08	3.54	1.90	4.30	3.65	1.94	4.48	3.76	1.98	4.62	3.88	2.02	4.71	3.84	2.04	4.94	3.80	2.06	5.19	3.72	2.11

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	3.18	5.58	3.15	5.52	3.12	5.46	3.09	5.41	3.06	5.36	3.03
-15	7.10	3.67	7.03	3.64	6.96	3.60	6.89	3.56	6.82	3.53	6.75	3.49
-5	8.00	3.43	7.92	3.39	7.84	3.36	7.76	3.33	7.68	3.29	7.61	3.26
0	8.32	2.94	8.24	2.91	8.16	2.88	8.08	2.85	8.00	2.82	7.92	2.79
7	8.16	2.45	8.08	2.42	8.00	2.40	7.92	2.38	7.84	2.35	7.76	2.33
24	10.61	2.82	10.50	2.79	10.40	2.76	10.30	2.73	10.19	2.71	10.09	2.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(3) AC090MN4DKH/EU + AC090MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.43	1.97	9.24	7.66	2.01	9.62	7.89	2.05	9.92	8.14	2.09	10.12	8.06	2.11	10.63	7.97	2.13	11.16	7.82	2.17
21	8.36	7.07	2.07	8.80	7.29	2.11	9.17	7.52	2.16	9.45	7.75	2.20	9.64	7.67	2.22	10.12	7.59	2.24	10.63	7.44	2.29
35	7.96	6.74	2.59	8.38	6.94	2.64	8.73	7.16	2.70	9.00	7.38	2.75	9.18	7.31	2.78	9.64	7.23	2.81	10.12	7.09	2.86
46	6.77	6.24	2.33	7.12	6.43	2.38	7.42	6.63	2.43	7.65	6.83	2.48	7.80	6.77	2.50	8.19	6.70	2.52	8.60	6.56	2.57
50	5.18	4.91	2.07	5.45	5.06	2.11	5.67	5.22	2.16	5.85	5.38	2.20	5.97	5.33	2.22	6.27	5.27	2.24	6.58	5.17	2.29

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.58	6.97	3.55	6.90	3.51	6.83	3.47	6.76	3.44	6.70	3.41
-15	8.87	4.13	8.79	4.09	8.70	4.05	8.61	4.01	8.53	3.97	8.44	3.93
-5	10.00	3.86	9.90	3.82	9.80	3.78	9.70	3.74	9.60	3.70	9.51	3.67
0	10.41	3.31	10.30	3.27	10.20	3.24	10.10	3.21	10.00	3.18	9.90	3.14
7	10.20	2.75	10.10	2.73	10.00	2.70	9.90	2.67	9.80	2.65	9.70	2.62
24	13.26	3.17	13.13	3.14	13.00	3.11	12.87	3.07	12.74	3.04	12.61	3.01

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(4) AC100MN4DKH/EU + AC100MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	8.05	2.23	10.27	8.30	2.28	10.69	8.56	2.32	11.03	8.82	2.37	11.25	8.73	2.39	11.81	8.64	2.42	12.40	8.47	2.47
21	9.29	7.67	2.35	9.78	7.90	2.40	10.19	8.15	2.45	10.50	8.40	2.50	10.71	8.32	2.52	11.25	8.23	2.55	11.81	8.07	2.60
35	8.85	7.30	2.94	9.31	7.53	3.00	9.70	7.76	3.06	10.00	8.00	3.12	10.20	7.92	3.15	10.71	7.84	3.18	11.25	7.68	3.25
46	7.52	7.06	2.64	7.92	7.28	2.70	8.25	7.50	2.75	8.50	7.74	2.81	8.67	7.66	2.84	9.10	7.58	2.86	9.56	7.43	2.92
50	5.75	5.64	2.35	6.05	5.81	2.40	6.31	5.99	2.45	6.50	6.18	2.50	6.63	6.11	2.52	6.96	6.05	2.55	7.31	5.93	2.60

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.11	7.81	4.07	7.73	4.03	7.65	3.99	7.57	3.95	7.50	3.91
-15	9.94	4.74	9.84	4.70	9.74	4.65	9.65	4.60	9.55	4.56	9.45	4.51
-5	11.20	4.43	11.09	4.38	10.98	4.34	10.87	4.30	10.76	4.25	10.65	4.21
0	11.65	3.79	11.54	3.76	11.42	3.72	11.31	3.68	11.20	3.65	11.08	3.61
7	11.43	3.16	11.31	3.13	11.20	3.10	11.09	3.07	10.98	3.04	10.87	3.01
24	14.85	3.64	14.71	3.60	14.56	3.57	14.41	3.53	14.27	3.49	14.13	3.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(5) AC100MN4DKH/EU + AC100MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	8.05	2.23	10.27	8.30	2.28	10.69	8.56	2.32	11.03	8.82	2.37	11.25	8.73	2.39	11.81	8.64	2.42	12.40	8.47	2.47
21	9.29	7.67	2.35	9.78	7.90	2.40	10.19	8.15	2.45	10.50	8.40	2.50	10.71	8.32	2.52	11.25	8.23	2.55	11.81	8.07	2.60
35	8.85	7.30	2.94	9.31	7.53	3.00	9.70	7.76	3.06	10.00	8.00	3.12	10.20	7.92	3.15	10.71	7.84	3.18	11.25	7.68	3.25
46	7.52	7.06	2.64	7.92	7.28	2.70	8.25	7.50	2.75	8.50	7.74	2.81	8.67	7.66	2.84	9.10	7.58	2.86	9.56	7.43	2.92
50	5.75	5.64	2.35	6.05	5.81	2.40	6.31	5.99	2.45	6.50	6.18	2.50	6.63	6.11	2.52	6.96	6.05	2.55	7.31	5.93	2.60

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.11	7.81	4.07	7.73	4.03	7.65	3.99	7.57	3.95	7.50	3.91
-15	9.94	4.74	9.84	4.70	9.74	4.65	9.65	4.60	9.55	4.56	9.45	4.51
-5	11.20	4.43	11.09	4.38	10.98	4.34	10.87	4.30	10.76	4.25	10.65	4.21
0	11.65	3.79	11.54	3.76	11.42	3.72	11.31	3.68	11.20	3.65	11.08	3.61
7	11.43	3.16	11.31	3.13	11.20	3.10	11.09	3.07	10.98	3.04	10.87	3.01
24	14.85	3.64	14.71	3.60	14.56	3.57	14.41	3.53	14.27	3.49	14.13	3.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(6) AC120MN4DKH/EU + AC120MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	9.18	3.36	12.32	9.46	3.43	12.83	9.75	3.50	13.23	10.05	3.57	13.49	9.95	3.61	14.17	9.85	3.64	14.88	9.66	3.72
21	11.15	8.74	3.54	11.73	9.01	3.61	12.22	9.29	3.68	12.60	9.58	3.76	12.85	9.48	3.80	13.49	9.39	3.84	14.17	9.20	3.91
35	10.62	8.32	4.42	11.17	8.58	4.51	11.64	8.85	4.61	12.00	9.12	4.70	12.24	9.03	4.75	12.85	8.94	4.79	13.49	8.76	4.89
46	9.02	8.30	3.98	9.50	8.56	4.06	9.89	8.83	4.15	10.20	9.10	4.23	10.40	9.01	4.27	10.92	8.92	4.31	11.47	8.74	4.40
50	6.90	6.69	3.54	7.26	6.90	3.61	7.57	7.11	3.68	7.80	7.33	3.76	7.96	7.26	3.80	8.35	7.19	3.84	8.77	7.04	3.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.04	9.06	4.99	8.97	4.94	8.88	4.89	8.79	4.84	8.70	4.79
-15	11.54	5.81	11.42	5.76	11.31	5.70	11.20	5.64	11.08	5.59	10.97	5.53
-5	13.00	5.43	12.87	5.37	12.74	5.32	12.61	5.27	12.49	5.21	12.36	5.16
0	13.53	4.65	13.39	4.61	13.26	4.56	13.13	4.51	13.00	4.47	12.87	4.42
7	13.26	3.88	13.13	3.84	13.00	3.80	12.87	3.76	12.74	3.72	12.61	3.69
24	17.24	4.46	17.07	4.41	16.90	4.37	16.73	4.33	16.56	4.28	16.40	4.24

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(7) AC120MN4DKH/EU + AC120MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	9.18	3.36	12.32	9.46	3.43	12.83	9.75	3.50	13.23	10.05	3.57	13.49	9.95	3.61	14.17	9.85	3.64	14.88	9.66	3.72
21	11.15	8.74	3.54	11.73	9.01	3.61	12.22	9.29	3.68	12.60	9.58	3.76	12.85	9.48	3.80	13.49	9.39	3.84	14.17	9.20	3.91
35	10.62	8.32	4.42	11.17	8.58	4.51	11.64	8.85	4.61	12.00	9.12	4.70	12.24	9.03	4.75	12.85	8.94	4.79	13.49	8.76	4.89
46	9.02	8.30	3.98	9.50	8.56	4.06	9.89	8.83	4.15	10.20	9.10	4.23	10.40	9.01	4.27	10.92	8.92	4.31	11.47	8.74	4.40
50	6.90	6.69	3.54	7.26	6.90	3.61	7.57	7.11	3.68	7.80	7.33	3.76	7.96	7.26	3.80	8.35	7.19	3.84	8.77	7.04	3.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.04	9.06	4.99	8.97	4.94	8.88	4.89	8.79	4.84	8.70	4.79
-15	11.54	5.81	11.42	5.76	11.31	5.70	11.20	5.64	11.08	5.59	10.97	5.53
-5	13.00	5.43	12.87	5.37	12.74	5.32	12.61	5.27	12.49	5.21	12.36	5.16
0	13.53	4.65	13.39	4.61	13.26	4.56	13.13	4.51	13.00	4.47	12.87	4.42
7	13.26	3.88	13.13	3.84	13.00	3.80	12.87	3.76	12.74	3.72	12.61	3.69
24	17.24	4.46	17.07	4.41	16.90	4.37	16.73	4.33	16.56	4.28	16.40	4.24

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(8) AC140MN4DKH/EU + AC140MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

4Way Cassette

(9) AC140MN4DKH/EU + AC140MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

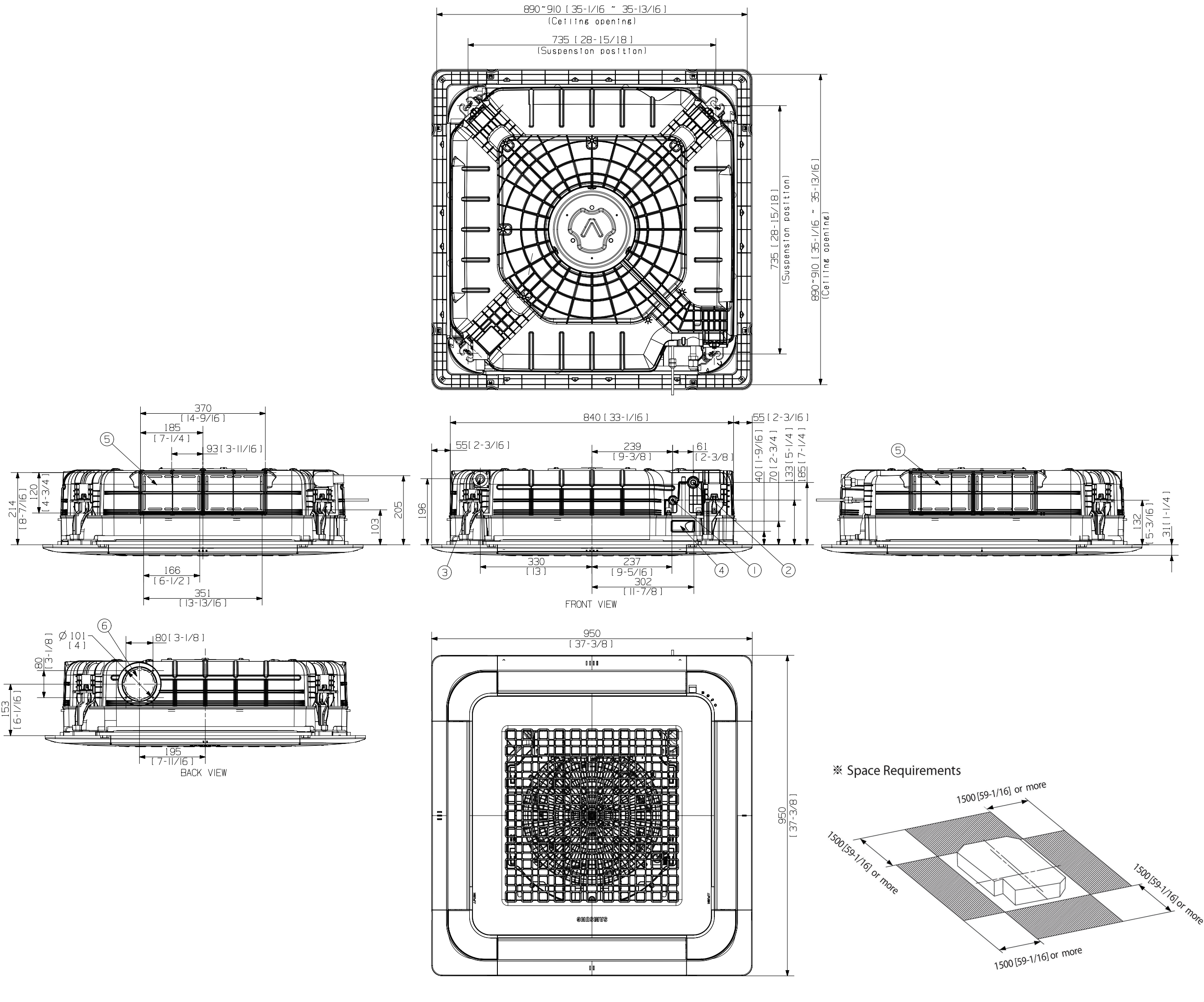
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

4Way Cassette

AC052/071MN4DKH/EU

Units : mm [inches]



No.	Name	Description	
		AC052MN4DKH/EU	AC071MN4DKH/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit		
5	Sub duct connection	Use M4 Screw	
6	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw	

NOTE

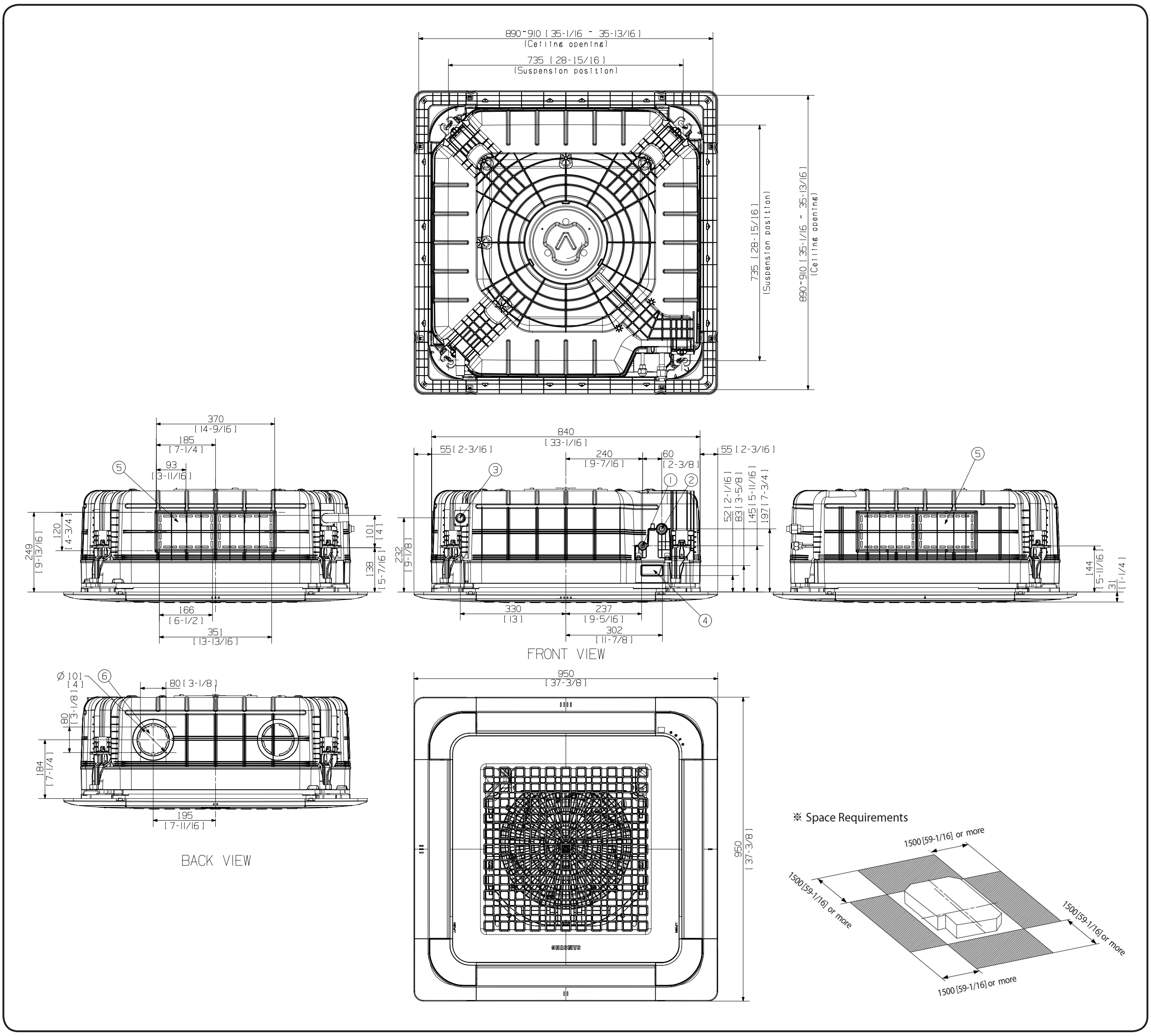
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

4Way Cassette

AC090/100/120/140MN4DKH/EU

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Sub duct connection	Use M4 Screw
6	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw

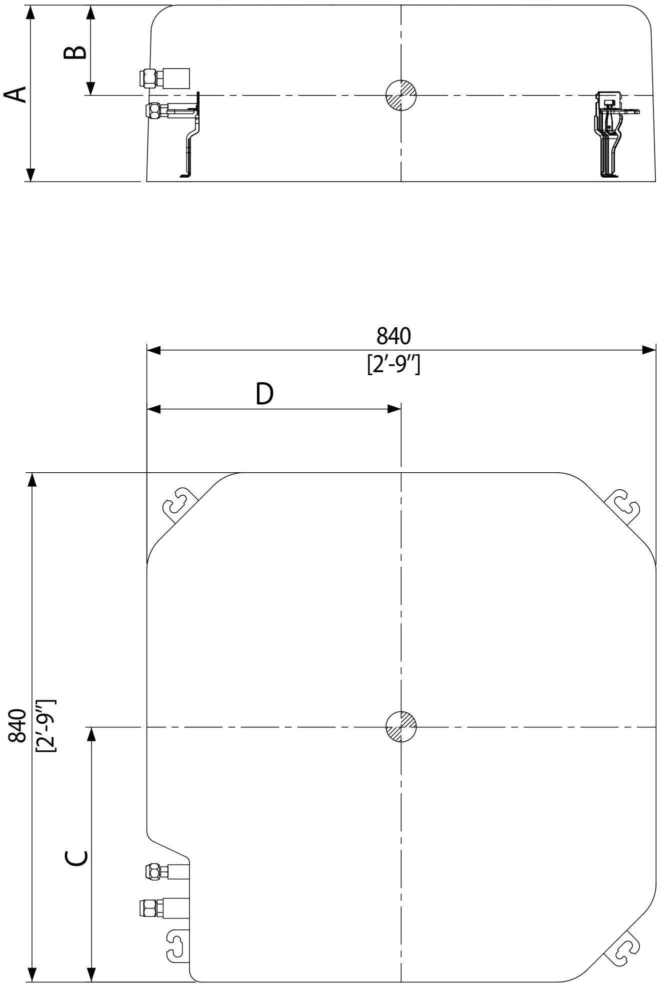
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

4Way Cassette

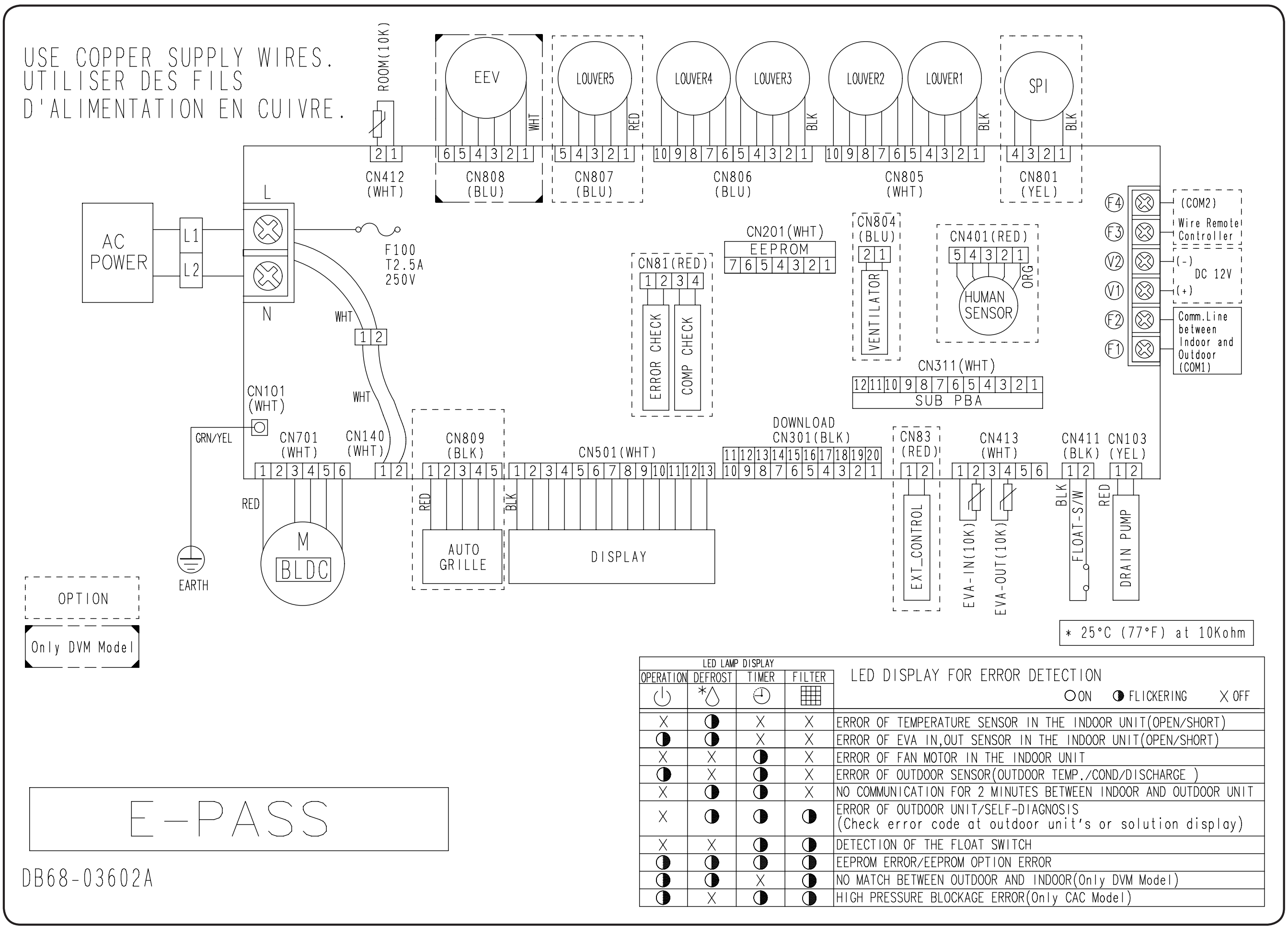
Units : mm [inches]



	A	B	C	D
~ 7.1kW	204 [8]	70 [2-3/4]	410 [16-1/8]	360 [14-3/16]
9kW ~ 14kW	288 [11-3/8]	130[5]	420 [16-1/2]	420 [16-1/2]

6. Electrical Wiring Diagram

4Way Cassette



LED DISPLAY FOR ERROR DETECTION

○ON ◑ FLICKERING X OFF

LED LAMP DISPLAY				
OPERATION	DEFROST	TIMER	FILTER	
X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	ERROR OF FAN MOTOR IN THE INDOOR UNIT
◑	X	◑	X	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR AND OUTDOOR UNIT
X	◑	◑	◑	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
X	X	◑	◑	DETECTION OF THE FLOAT SWITCH
◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	◑	X	◑	NO MATCH BETWEEN OUTDOOR AND INDOOR(Only DVM Model)
◑	X	◑	◑	HIGH PRESSURE BLOCKAGE ERROR(Only CAC Model)

SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

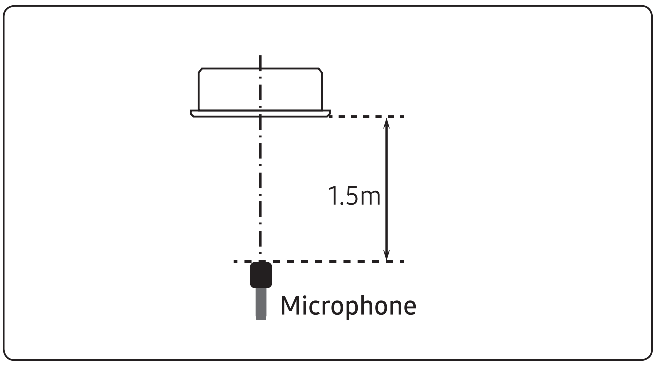
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N/ : The wire quantity

7. Sound Data

4Way Cassette

Sound Pressure level

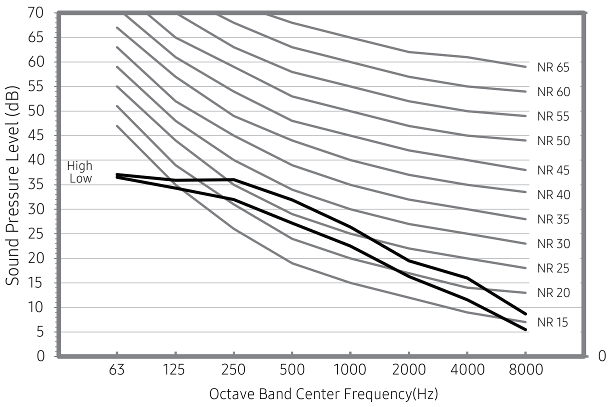
Unit: dB(A)



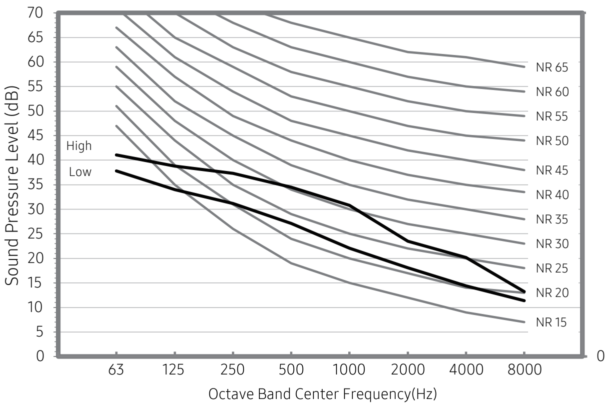
Model	Hi	MID	LOW
AC052MN4DKH/EU	33	31	29
AC071MN4DKH/EU	36	33	29
AC090MN4DKH/EU	43	38	33
AC100MN4DKH/EU	44	39	33

- NR Curve

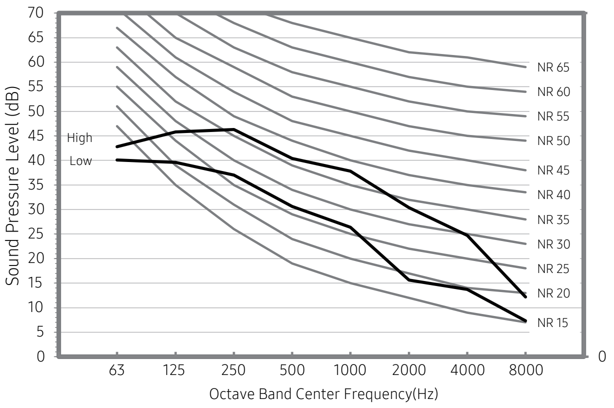
1) AC052MN4DKH/EU



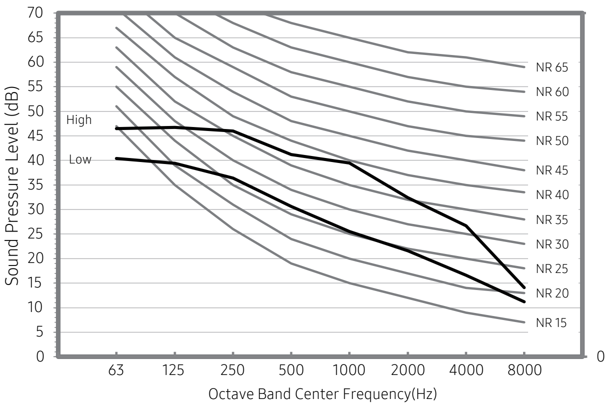
2) AC071MN4DKH/EU



3) AC090MN4DKH/EU



4) AC100MN4DKH/EU



NOTE

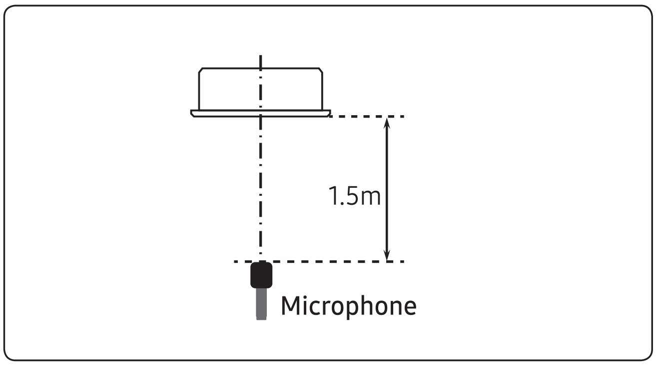
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

4Way Cassette

Sound Pressure level

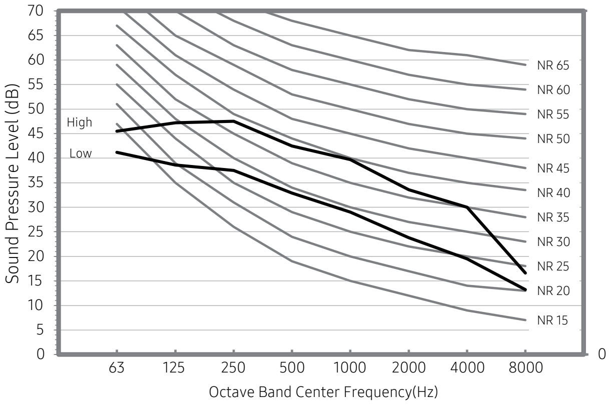
Unit: dB(A)



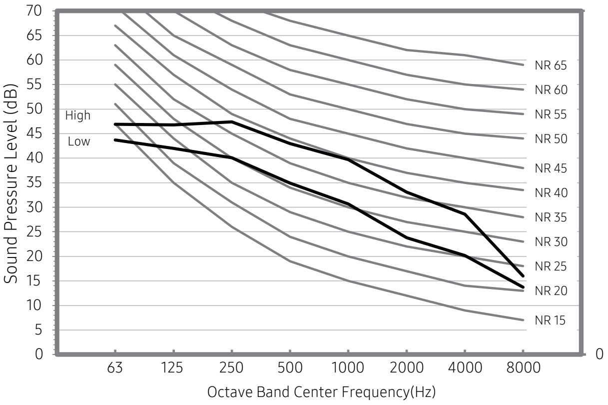
Model	Hi	MID	LOW
AC120MN4DKH/EU	45	40	35
AC140MN4DKH/EU	45	41	37

- NR Curve

5) AC120MN4DKH/EU



6) AC140MN4DKH/EU



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

7. Sound Data

4Way Cassette

Sound Power level

NOTE

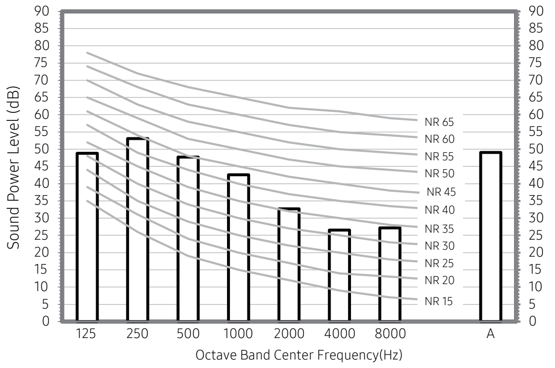
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

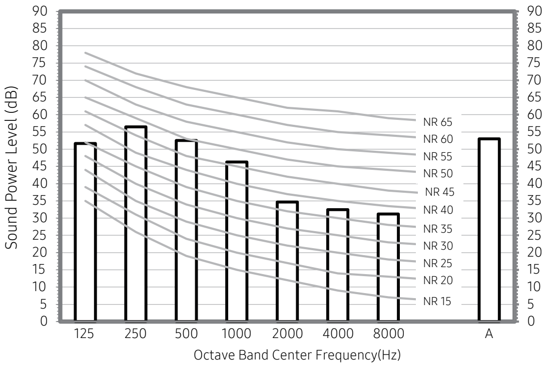
Model	Power
AC052MN4DKH/EU	49
AC071MN4DKH/EU	53
AC090MN4DKH/EU	60
AC100MN4DKH/EU	61
AC120MN4DKH/EU	61
AC140MN4DKH/EU	61

- NR Curve

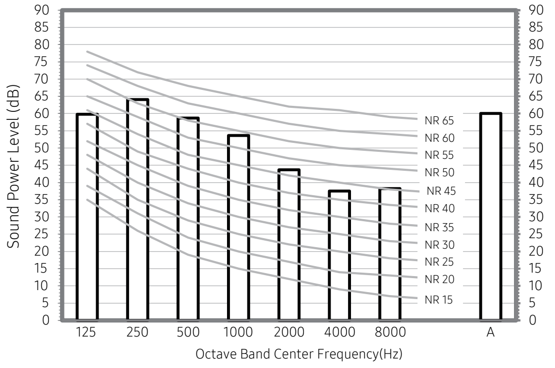
1) AC052MN4DKH/EU



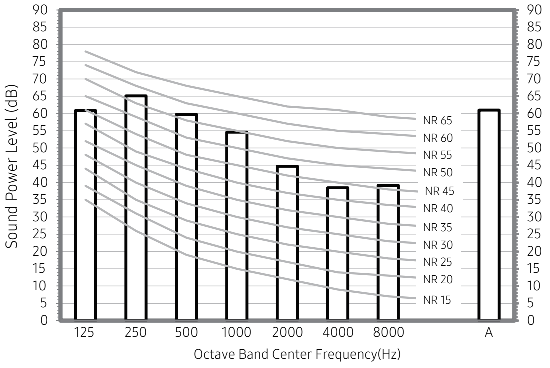
2) AC071MN4DKH/EU



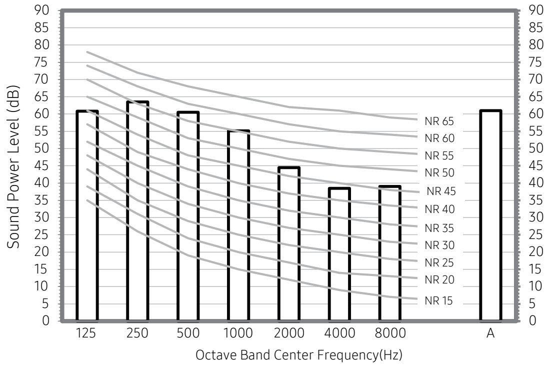
3) AC090MN4DKH/EU



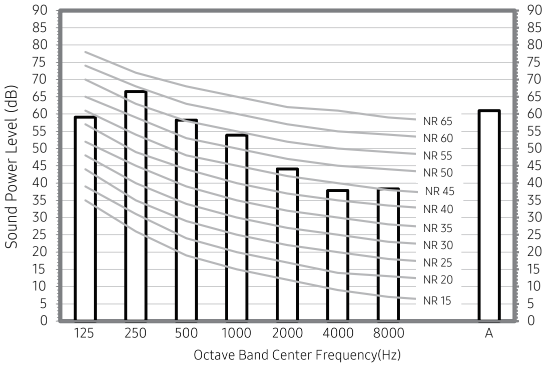
4) AC100MN4DKH/EU



5) AC120MN4DKH/EU



6) AC140MN4DKH/EU



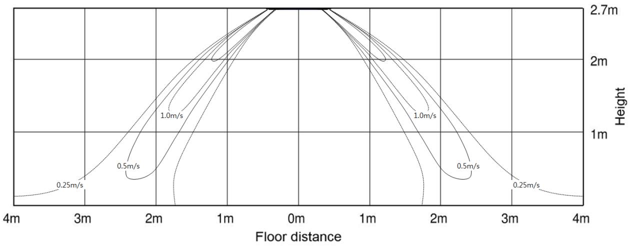
8. Temperature and air flow distribution

4Way Cassette

AC052MN4DKH/EU

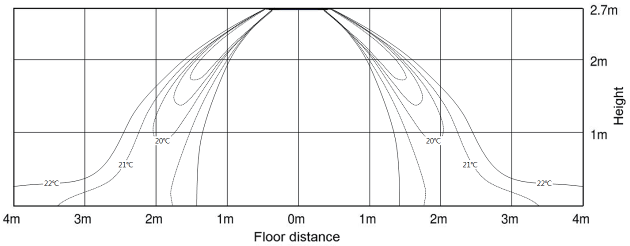
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



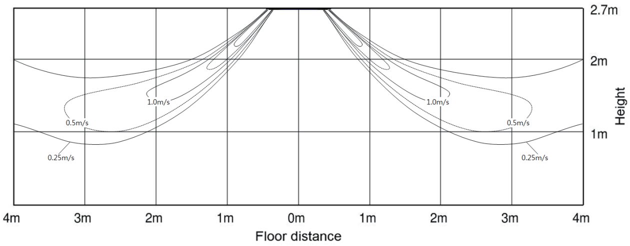
- Cooling temperature distribution

  (Discharge angle : 37 degree)



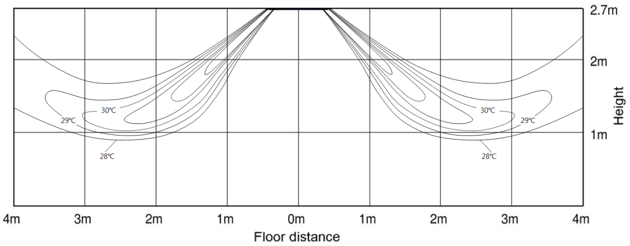
- Heating Air Velocity distribution

  (Discharge angle : 43 degree)



- Heating temperature distribution

  (Discharge angle : 43 degree)



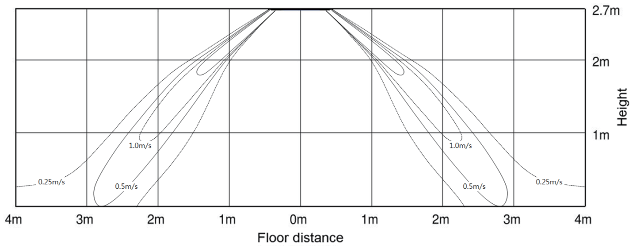
8. Temperature and air flow distribution

4Way Cassette

AC071MN4DKH/EU

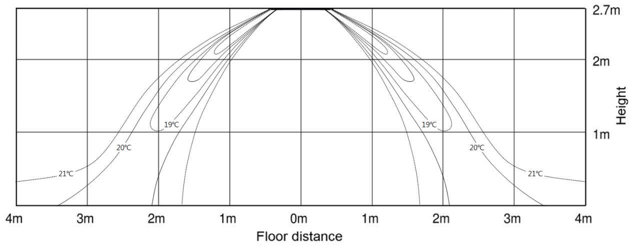
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



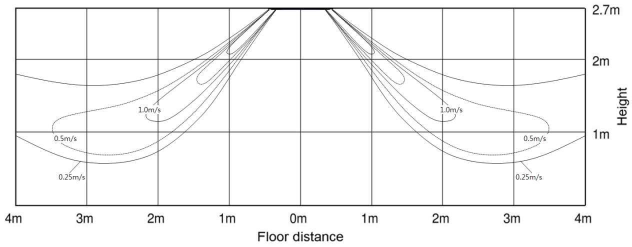
- Cooling temperature distribution

(Discharge angle : 37 degree)



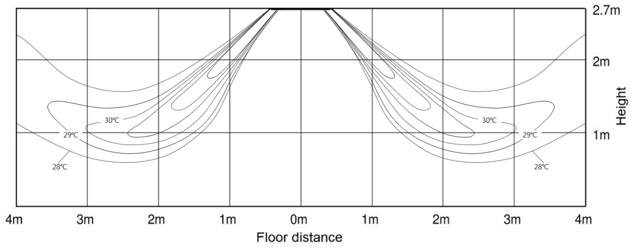
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



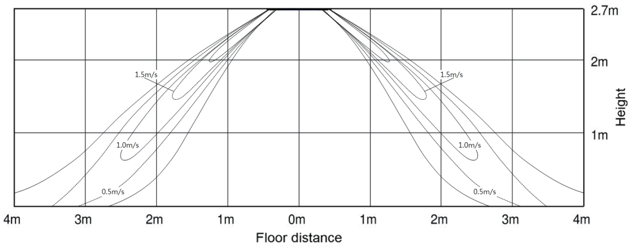
8. Temperature and air flow distribution

4Way Cassette

AC090MN4DKH/EU

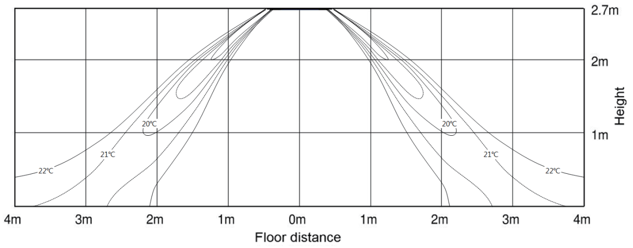
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



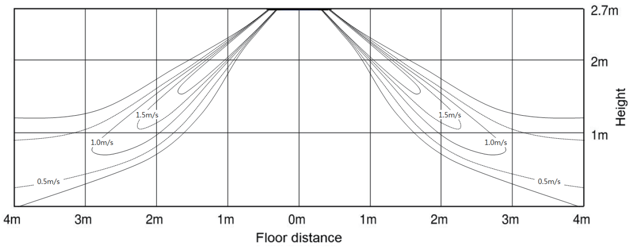
- Cooling temperature distribution

  (Discharge angle : 37 degree)



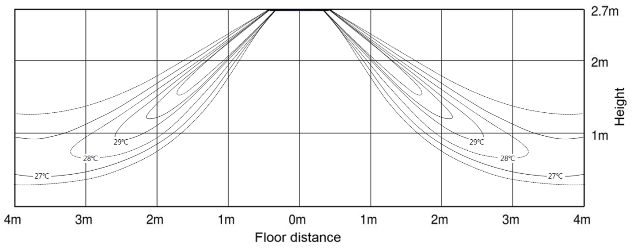
- Heating Air Velocity distribution

  (Discharge angle : 43 degree)



- Heating temperature distribution

  (Discharge angle : 43 degree)



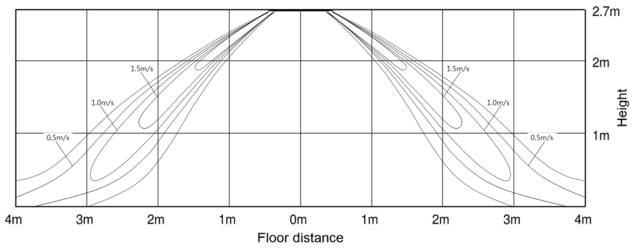
8. Temperature and air flow distribution

4Way Cassette

AC100MN4DKH/EU

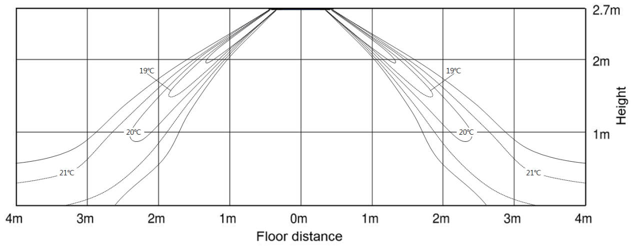
- Cooling Air Velocity distribution

  (Discharge angle : 37 degree)



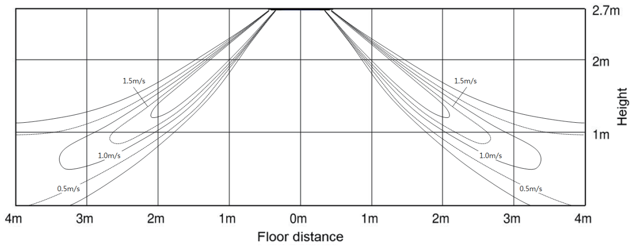
- Cooling temperature distribution

  (Discharge angle : 37 degree)



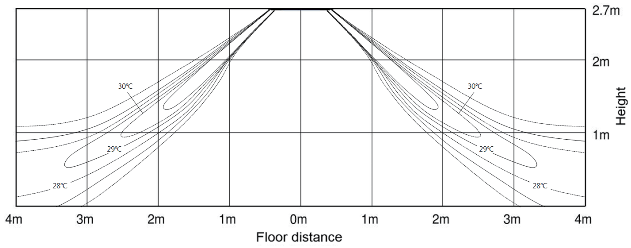
- Heating Air Velocity distribution

  (Discharge angle : 43 degree)



- Heating temperature distribution

  (Discharge angle : 43 degree)



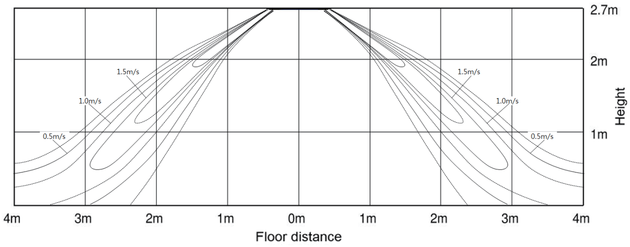
8. Temperature and air flow distribution

4Way Cassette

AC120MN4DKH/EU

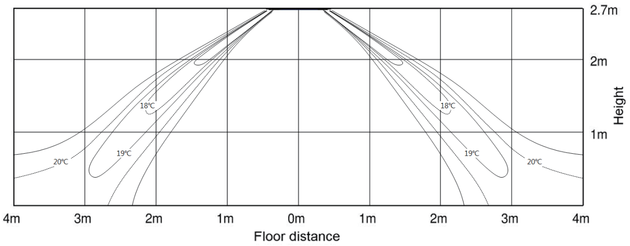
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



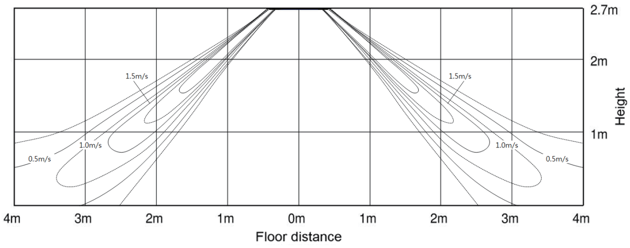
- Cooling temperature distribution

(Discharge angle : 37 degree)



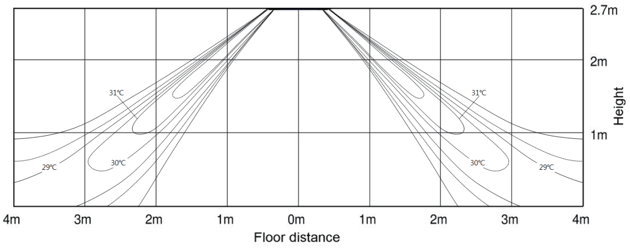
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



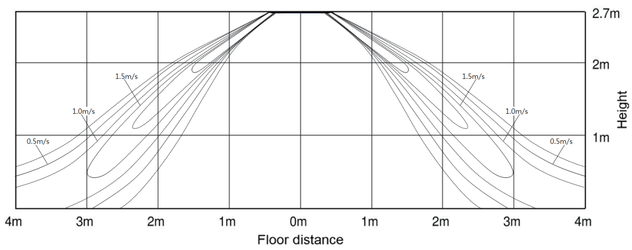
8. Temperature and air flow distribution

4Way Cassette

AC140MN4DKH/EU

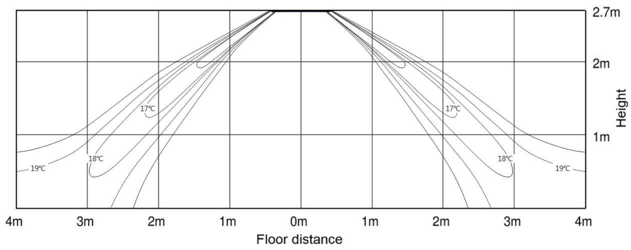
- Cooling Air Velocity distribution

(Discharge angle : 37 degree)



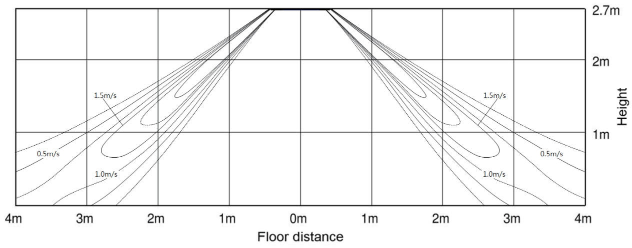
- Cooling temperature distribution

(Discharge angle : 37 degree)



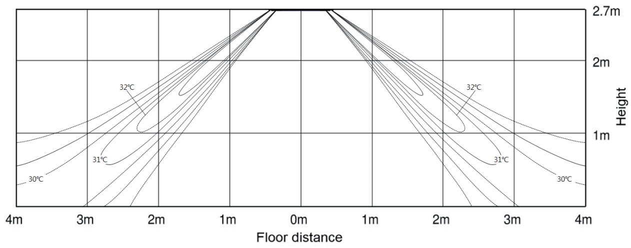
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



360 Cassette

Features & Benefits

360 Cassette

All round cooling and comfort

The Samsung 360 Cassette air conditioner offers a brand new way of staying comfortably cool in every corner of the room. Its innovative circular design not only means it perfectly fits in everywhere, adding a sophisticated look to many different sites, but it also blows cool air in all directions, so that the whole room is the same temperature*. And its bladeless outlet ensures that cool air is gently dispersed, without creating a cold draft**, and doesn't block the air flow, even at low angles, so it expels 25% more air* and spreads it farther.

EVENLY CIRCULATES & COOLS EVERY CORNER

Unike 4-way, cassette type air conditioners that create areas of uneven airflow where cool air can't reach*, a circular outlet blows cool air in all directions, so every corner of a room is the same temperature**.

* Samsung testing compared to a general 4 way cassette type air conditioner.

** Within an 9.3m radius the temperature difference is less than 0.6°C.

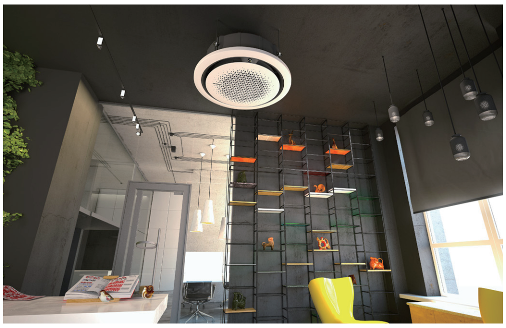
Comfortably cool, not cold

A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft**. With no blades to block the air flow, it also expels 25% more air* and spreads it farther.

* Within a 5m radius, no cold draft between 0~1.5m in height (with 14.0kw).

Circular to perfectly fit in everywhere

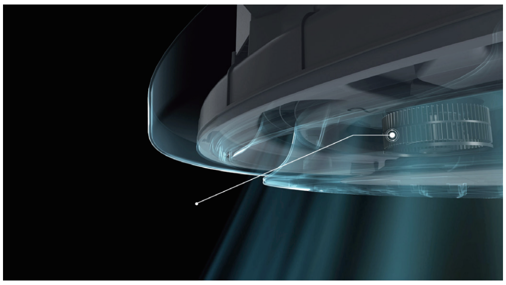
Its innovative circular design can match a multitude of interior designs, so it perfectly fits in everywhere. Its minimalist modern styling creates a sophisticated look and its circular shape stands out beautifully.



* Within an 9.3m radius the temperature difference is less than 0.6°C.

Spreads more air in more ways

An innovative Booster Fan enables cool air to be expelled at much lower angles. It creates a low pressure area around the outlet, so that cool air comes out parallel to the ceiling and disperses across a wider area.



All round simpler & intuitive control

Intuitively control its performance and see where the air is going. The Wireless Remote Controller's* Jog shuttle and button offer a fun way to adjust the air flow and a Circular LED Display shows its direction.

*Optional

1. Specification

360 Cassette

System	Model Name	Indoor Unit			AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	2.20 / 7.10 / 8.00	3.00 / 9.00 / 11.30	3.00 / 10.00 / 12.00
				Btu/h	7,500 / 24,200 / 27,300	10,200 / 30,700 / 38,600	10,200 / 34,100 / 40,900
			Heating (Min/Std/Max)	kW	1.90 / 8.00 / 9.00	2.20 / 10.00 / 13.90	2.20 / 11.20 / 15.50
				Btu/h	6,500 / 27,300 / 30,700	7,500 / 34,100 / 47,400	7,500 / 38,200 / 52,900
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.35 / 2.49 / 3.95	0.60 / 2.82 / 4.46	0.60 / 3.40 / 4.70
			Heating (Min/Std/Max)	kW	0.35 / 2.40 / 3.95	0.46 / 2.65 / 5.20	0.46 / 3.15 / 5.40
		Current Input	Cooling (Min/Std/Max)	A	2.00 / 11.10 / 17.00	3.00 / 12.70 / 19.40	3.00 / 15.10 / 20.40
			Heating (Min/Std/Max)	A	2.00 / 10.70 / 17.00	2.50 / 12.50 / 22.70	2.50 / 14.60 / 23.00
		Current	MCA	A	21.5	25.5	25.5
			MFA	A	25	30	30
	Efficiency	EER	Cooling	W/W	2.85	3.19	2.94
		COP	Heating	W/W	3.33	3.77	3.56
		SEER (Cooling Energy Grade)		W/W	6.2 (A++)	6.8 (A++)	6.8 (A++)
		SCOP (Heating Energy Grade)		W/W	4.1 (A+)	4.3 (A+)	4.3 (A+)
		Pdesignh		kW	4.5	5.3	5.3
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	9.52	9.52
				Φ, inch	1/4	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	5	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.5 / 3.13	3.0 / 6.26	3.0 / 6.26

1. Specification

360 Cassette

Indoor Unit	Model Name	Indoor Unit			AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	17.5 / 15.9 / 14.3	30.1 / 24.4 / 19.8	31.2 / 25.5 / 19.8
				l/s	291.7 / 265.0 / 238.3	501.7 / 406.7 / 330.0	520.0 / 425.0 / 330.0
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	65 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 33 / 29	43 / 38 / 33	44 / 39 / 33
		Sound Power Level		dB(A)	53	60	61
	External Dimension	Net Weight		kg	20.2	23.5	23.5
		Shipping Weight		kg	24.8	28.3	28.3
		Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083

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Indoor Unit	Model Name	Indoor Unit			AC071MN4PKH/EU	AC090MN4PKH/EU	AC100MN4PKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC100MXADKH/EU
	Control System	Infrared remote control		-	MR-KH00E	MR-KH00E	MR-KH00E
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	FMC	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Al	Cu	Cu
		Fin Treatment		-	Hybrid Coating	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG4T200FUAE4	UG8T300FUBJU	UG8T300FUBJU
		Output		kW	1.79	2.82	2.82
		Oil	Type	-	POE	PVE	PVE
			Initial charge	cc	650	1200	1200
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	51	78	78
				l/s	850	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	49	52	52
			Heating	dB(A)	51	53	54
		Sound Power Level		dB(A)	65	68	69
	External Dimension	Net Weight		kg	53	72	72
		Shipping Weight		kg	57.2	77	77
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1023 x 911 x 413	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

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System	Model Name	Indoor Unit			AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU
		Outdoor Unit			AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.50 / 12.00 / 13.50	3.50 / 12.00 / 13.50
				Btu/h	10,200 / 34,100 / 40,900	11,900 / 40,900 / 46,100	11,900 / 40,900 / 46,100
			Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	3.50 / 13.00 / 15.50	3.50 / 13.00 / 15.50
				Btu/h	7,500 / 38,200 / 52,900	11,900 / 44,400 / 52,900	11,900 / 44,400 / 52,900
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.40 / 4.70	0.90 / 4.70 / 5.30	0.90 / 4.70 / 7.90
			Heating (Min/Std/Max)	kW	0.46 / 3.15 / 5.40	0.75 / 4.00 / 5.50	0.75 / 4.00 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	1.50 / 5.30 / 7.10	4.30 / 20.50 / 23.00	2.10 / 7.10 / 12.00
			Heating (Min/Std/Max)	A	1.20 / 4.90 / 8.40	3.70 / 17.50 / 24.00	2.10 / 6.30 / 12.00
		Current	MCA	A	17.6	25.5	17.6
			MFA	A	17.6	30	17.6
	Efficiency	EER	Cooling	W/W	2.94	2.55	2.55
		COP	Heating	W/W	3.56	3.25	3.25
		SEER (Cooling Energy Grade)		W/W	6.8 (A++)	5.7 (A+)	5.7 (A+)
		SCOP (Heating Energy Grade)		W/W	4.3 (A+)	4.1 (A+)	4.1 (A+)
		Pdesignh		kW	5.3	7.4	7.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26

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Indoor Unit	Model Name	Indoor Unit			AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU
		Outdoor Unit			AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	31.2 / 25.5 / 19.8	32.5 / 25.5 / 19.8	32.5 / 25.5 / 19.8
				l/s	520.0 / 425.0 / 330.0	541.7 / 425.0 / 330.0	541.7 / 425.0 / 330.0
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	97 x 1	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 39 / 33	45 / 40 / 35	45 / 40 / 35
		Sound Power Level		dB(A)	61	61	61
	External Dimension	Net Weight		kg	23.5	23.5	23.5
		Shipping Weight		kg	28.3	28.3	28.3
		Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	White	White	White
		Net Weight		kg	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black
		Net Weight		kg	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083	1093 x 85 x 1083

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Indoor Unit	Model Name	Indoor Unit			AC100MN4PKH/EU	AC120MN4PKH/EU	AC120MN4PKH/EU
		Outdoor Unit			AC100MXADNH/EU	AC120MXADKH/EU	AC120MXADNH/EU
	Control System	Infrared remote control		-	MR-KH00E	MR-KH00E	MR-KH00E
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option
Outdoor Unit	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG8T300FUCJU	UG5TK1450FJX	UG5TK1450FJX
		Output		kW	2.82	4.19	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1200	1700	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	78	78
				l/s	1300	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	54	54
			Heating	dB(A)	54	56	56
		Sound Power Level		dB(A)	69	70	70
	External Dimension	Net Weight		kg	72	77	77
		Shipping Weight		kg	77	82	82
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

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System	Model Name	Indoor Unit			AC140MN4PKH/EU	AC140MN4PKH/EU
		Outdoor Unit			AC140MXADKH/EU	AC140MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50
				Btu/h	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900
			Heating (Min/Std/Max)	kW	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00
				Btu/h	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90
			Heating (Min/Std/Max)	kW	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00
			Heating (Min/Std/Max)	A	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00
		Current	MCA	A	33.5	17.6
			MFA	A	40	17.6
	Efficiency	EER	Cooling	W/W	3.01	3.01
		COP	Heating	W/W	3.41	3.41
		SEER (Cooling Energy Grade)		W/W	3.0	3.0
		SCOP (Heating Energy Grade)		W/W	3.4	3.4
		Pdesignh		kW	-	-
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm	9.52	9.52
				Φ, inch	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm	15.88	15.88
				Φ, inch	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	75	75
			Elevation	m	30	30
			Chargeless	m	30	30
	Wiring connections	Power Source Wire		mm^2	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg / tCO_2e	3.4 / 7.10	3.4 / 7.10

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Indoor Unit	Model Name	Indoor Unit			AC140MN4PKH/EU	AC140MN4PKH/EU
		Outdoor Unit			AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan
		Quantity		EA	1	1
		Air Flow Rate	High/Mid/Low	CMM	32.4 / 27.1 / 22.8	32.4 / 27.1 / 22.8
				l/s	540.0 / 451.7 / 380.0	540.0 / 451.7 / 380.0
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Output		W x n	97 x 1	97 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 41 / 37	45 / 41 / 37
		Sound Power Level		dB(A)	61	61
	External Dimension	Net Weight		kg	25.5	25.5
		Shipping Weight		kg	30.3	30.3
		Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS
		Color		-	White	White
		Net Weight		kg	3.6	3.6
		Shipping Weight		kg	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS
		Color		-	Black	Black
		Net Weight		kg	3.6	3.6
		Shipping Weight		kg	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS
		Color		-	White	White
		Net Weight		kg	2.7	2.7
		Shipping Weight		kg	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083
	Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS
		Color		-	Black	Black
		Net Weight		kg	2.7	2.7
		Shipping Weight		kg	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1050 x 66 x 1050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1093 x 85 x 1083

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Indoor Unit	Model Name	Indoor Unit			AC140MN4PKH/EU	AC140MN4PKH/EU
		Outdoor Unit			AC140MXADKH/EU	AC140MXADNH/EU
	Control System	Infrared remote control		-	MR-KH00E	MR-KH00E
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-
		Air Filter		-	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG5TK1450FJX	UG5TK1450FJX
		Output		kW	4.19	4.19
		Oil	Type	-	PVE	PVE
			Initial charge	cc	1700	1700
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	2	2
		Air Flow Rate		CMM	111	111
				l/s	1850	1850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	53	53
			Heating	dB(A)	54	54
		Sound Power Level		dB(A)	69	69
	External Dimension	Net Weight		kg	87	87
		Shipping Weight		kg	97	97
		Net Dimensions (WxHxD)		mm	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1388 x 426	995 x 1388 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

360 Cassette

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC071MN4PKH/EU	20.2	Max.	8.0	9.0	High	19.5 / 19.5	36	53
		Std.	7.1	8.0	Mid	16.5 / 16.5	33	-
		Min.	2.2	1.9	Low	14.5 / 14.5	29	-
AC090MN4PKH/EU	23.5	Max.	11.3	13.9	High	30.0 / 30.0	43	60
		Std.	9.0	10.0	Mid	24.0 / 24.0	38	-
		Min.	3.0	2.2	Low	18.0 / 18.0	33	-
AC100MN4PKH/EU	23.5	Max.	12.0	15.5	High	31.0 / 31.0	44	61
		Std.	10.0	11.2	Mid	25.0 / 25.0	39	-
		Min.	3.0	2.2	Low	19.0 / 19.0	33	-
AC120MN4PKH/EU	23.5	Max.	13.5	15.5	High	32.0 / 32.0	45	61
		Std.	12.0	13.0	Mid	26.0 / 26.0	40	-
		Min.	3.5	3.5	Low	22.0 / 22.0	35	-
AC140MN4PKH/EU	23.5	Max.	15.5	18.0	High	34.0 / 34.0	45	61
		Std.	13.4	15.5	Mid	27.0 / 27.0	41	-
		Min.	3.5	3.5	Low	23.0 / 23.0	37	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC071MN4PKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1.5	21.5	21.5	25
AC090MN4PKH/EU	AC090MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC100MN4PKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC100MN4PKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC120MN4PKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	1.5	25.5	25.5	30
AC120MN4PKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC140MN4PKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	1.5	33.5	33.5	40
AC140MN4PKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

360 Cassette

(1) AC071MN4PKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	5.14	1.78	7.29	5.30	1.82	7.59	5.47	1.85	7.83	5.64	1.89	7.98	5.58	1.91	8.38	5.52	1.93	8.80	5.41	1.97
21	6.59	4.90	1.87	6.94	5.05	1.91	7.23	5.21	1.95	7.46	5.37	1.99	7.60	5.31	2.01	7.98	5.26	2.03	8.38	5.16	2.07
35	6.28	4.67	2.34	6.61	4.81	2.39	6.89	4.96	2.44	7.10	5.11	2.49	7.24	5.06	2.51	7.60	5.01	2.54	7.98	4.91	2.59
46	5.34	4.41	2.11	5.62	4.55	2.15	5.85	4.69	2.20	6.04	4.83	2.24	6.16	4.78	2.26	6.46	4.74	2.29	6.79	4.64	2.33
50	4.08	3.50	1.87	4.30	3.60	1.91	4.48	3.72	1.95	4.62	3.83	1.99	4.71	3.79	2.01	4.94	3.75	2.03	5.19	3.68	2.07

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	3.18	5.58	3.15	5.52	3.12	5.46	3.09	5.41	3.06	5.36	3.03
-15	7.10	3.67	7.03	3.64	6.96	3.60	6.89	3.56	6.82	3.53	6.75	3.49
-5	8.00	3.43	7.92	3.39	7.84	3.36	7.76	3.33	7.68	3.29	7.61	3.26
0	8.32	2.94	8.24	2.91	8.16	2.88	8.08	2.85	8.00	2.82	7.92	2.79
7	8.16	2.45	8.08	2.42	8.00	2.40	7.92	2.38	7.84	2.35	7.76	2.33
24	10.61	2.82	10.50	2.79	10.40	2.76	10.30	2.73	10.19	2.71	10.09	2.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(2) AC090MN4PKH/EU + AC090MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.70	2.02	9.24	7.94	2.06	9.62	8.18	2.10	9.92	8.43	2.14	10.12	8.35	2.16	10.63	8.27	2.19	11.16	8.10	2.23
21	8.36	7.33	2.12	8.80	7.56	2.17	9.17	7.79	2.21	9.45	8.03	2.26	9.64	7.95	2.28	10.12	7.87	2.30	10.63	7.72	2.35
35	7.96	6.98	2.65	8.38	7.20	2.71	8.73	7.42	2.76	9.00	7.65	2.82	9.18	7.57	2.85	9.64	7.50	2.88	10.12	7.35	2.93
46	6.77	6.40	2.39	7.12	6.59	2.44	7.42	6.80	2.49	7.65	7.01	2.54	7.80	6.94	2.56	8.19	6.87	2.59	8.60	6.73	2.64
50	5.18	5.02	2.12	5.45	5.17	2.17	5.67	5.33	2.21	5.85	5.50	2.26	5.97	5.44	2.28	6.27	5.39	2.30	6.58	5.28	2.35

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.51	6.97	3.48	6.90	3.45	6.83	3.41	6.76	3.38	6.70	3.34
-15	8.87	4.05	8.79	4.01	8.70	3.98	8.61	3.94	8.53	3.90	8.44	3.86
-5	10.00	3.78	9.90	3.75	9.80	3.71	9.70	3.67	9.60	3.64	9.51	3.60
0	10.41	3.24	10.30	3.21	10.20	3.18	10.10	3.15	10.00	3.12	9.90	3.09
7	10.20	2.70	10.10	2.68	10.00	2.65	9.90	2.62	9.80	2.60	9.70	2.57
24	13.26	3.11	13.13	3.08	13.00	3.05	12.87	3.02	12.74	2.99	12.61	2.96

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(3) AC100MN4PKH/EU + AC100MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	8.15	2.43	10.27	8.40	2.48	10.69	8.66	2.53	11.03	8.93	2.58	11.25	8.84	2.61	11.81	8.75	2.64	12.40	8.58	2.69
21	9.29	7.76	2.56	9.78	8.00	2.61	10.19	8.25	2.67	10.50	8.51	2.72	10.71	8.42	2.75	11.25	8.34	2.77	11.81	8.17	2.83
35	8.85	7.39	3.20	9.31	7.62	3.27	9.70	7.86	3.33	10.00	8.10	3.40	10.20	8.02	3.43	10.71	7.94	3.47	11.25	7.78	3.54
46	7.52	7.14	2.88	7.92	7.36	2.94	8.25	7.59	3.00	8.50	7.82	3.06	8.67	7.74	3.09	9.10	7.66	3.12	9.56	7.51	3.18
50	5.75	5.70	2.56	6.05	5.87	2.61	6.31	6.05	2.67	6.50	6.24	2.72	6.63	6.18	2.75	6.96	6.12	2.77	7.31	5.99	2.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.18	7.81	4.14	7.73	4.10	7.65	4.05	7.57	4.01	7.50	3.97
-15	9.94	4.82	9.84	4.77	9.74	4.73	9.65	4.68	9.55	4.63	9.45	4.58
-5	11.20	4.50	11.09	4.45	10.98	4.41	10.87	4.37	10.76	4.32	10.65	4.28
0	11.65	3.86	11.54	3.82	11.42	3.78	11.31	3.74	11.20	3.70	11.08	3.67
7	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24	14.85	3.70	14.71	3.66	14.56	3.62	14.41	3.59	14.27	3.55	14.13	3.51

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(4) AC100MN4PKH/EU + AC100MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	8.15	2.43	10.27	8.40	2.48	10.69	8.66	2.53	11.03	8.93	2.58	11.25	8.84	2.61	11.81	8.75	2.64	12.40	8.58	2.69
21	9.29	7.76	2.56	9.78	8.00	2.61	10.19	8.25	2.67	10.50	8.51	2.72	10.71	8.42	2.75	11.25	8.34	2.77	11.81	8.17	2.83
35	8.85	7.39	3.20	9.31	7.62	3.27	9.70	7.86	3.33	10.00	8.10	3.40	10.20	8.02	3.43	10.71	7.94	3.47	11.25	7.78	3.54
46	7.52	7.14	2.88	7.92	7.36	2.94	8.25	7.59	3.00	8.50	7.82	3.06	8.67	7.74	3.09	9.10	7.66	3.12	9.56	7.51	3.18
50	5.75	5.70	2.56	6.05	5.87	2.61	6.31	6.05	2.67	6.50	6.24	2.72	6.63	6.18	2.75	6.96	6.12	2.77	7.31	5.99	2.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.18	7.81	4.14	7.73	4.10	7.65	4.05	7.57	4.01	7.50	3.97
-15	9.94	4.82	9.84	4.77	9.74	4.73	9.65	4.68	9.55	4.63	9.45	4.58
-5	11.20	4.50	11.09	4.45	10.98	4.41	10.87	4.37	10.76	4.32	10.65	4.28
0	11.65	3.86	11.54	3.82	11.42	3.78	11.31	3.74	11.20	3.70	11.08	3.67
7	11.43	3.21	11.31	3.18	11.20	3.15	11.09	3.12	10.98	3.09	10.87	3.06
24	14.85	3.70	14.71	3.66	14.56	3.62	14.41	3.59	14.27	3.55	14.13	3.51

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(5) AC120MN4PKH/EU + AC120MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	8.94	3.36	12.32	9.21	3.43	12.83	9.50	3.50	13.23	9.79	3.57	13.49	9.69	3.61	14.17	9.60	3.64	14.88	9.40	3.72
21	11.15	8.51	3.54	11.73	8.77	3.61	12.22	9.04	3.68	12.60	9.32	3.76	12.85	9.23	3.80	13.49	9.14	3.84	14.17	8.96	3.91
35	10.62	8.10	4.42	11.17	8.36	4.51	11.64	8.61	4.61	12.00	8.88	4.70	12.24	8.79	4.75	12.85	8.70	4.79	13.49	8.53	4.89
46	9.02	8.12	3.98	9.50	8.37	4.06	9.89	8.63	4.15	10.20	8.89	4.23	10.40	8.81	4.27	10.92	8.72	4.31	11.47	8.54	4.40
50	6.90	6.55	3.54	7.26	6.75	3.61	7.57	6.96	3.68	7.80	7.18	3.76	7.96	7.10	3.80	8.35	7.03	3.84	8.77	6.89	3.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(6) AC120MN4PKH/EU + AC120MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	8.81	3.36	12.32	9.09	3.43	12.83	9.37	3.50	13.23	9.66	3.57	13.49	9.56	3.61	14.17	9.47	3.64	14.88	9.28	3.72
21	11.15	8.39	3.54	11.73	8.65	3.61	12.22	8.92	3.68	12.60	9.20	3.76	12.85	9.11	3.80	13.49	9.01	3.84	14.17	8.83	3.91
35	10.62	8.00	4.42	11.17	8.24	4.51	11.64	8.50	4.61	12.00	8.76	4.70	12.24	8.67	4.75	12.85	8.59	4.79	13.49	8.41	4.89
46	9.02	7.82	3.98	9.50	8.06	4.06	9.89	8.31	4.15	10.20	8.57	4.23	10.40	8.48	4.27	10.92	8.40	4.31	11.47	8.23	4.40
50	6.90	6.26	3.54	7.26	6.46	3.61	7.57	6.66	3.68	7.80	6.86	3.76	7.96	6.80	3.80	8.35	6.73	3.84	8.77	6.59	3.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(7) AC140MN4PKH/EU + AC140MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

360 Cassette

(8) AC140MN4PKH/EU + AC140MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

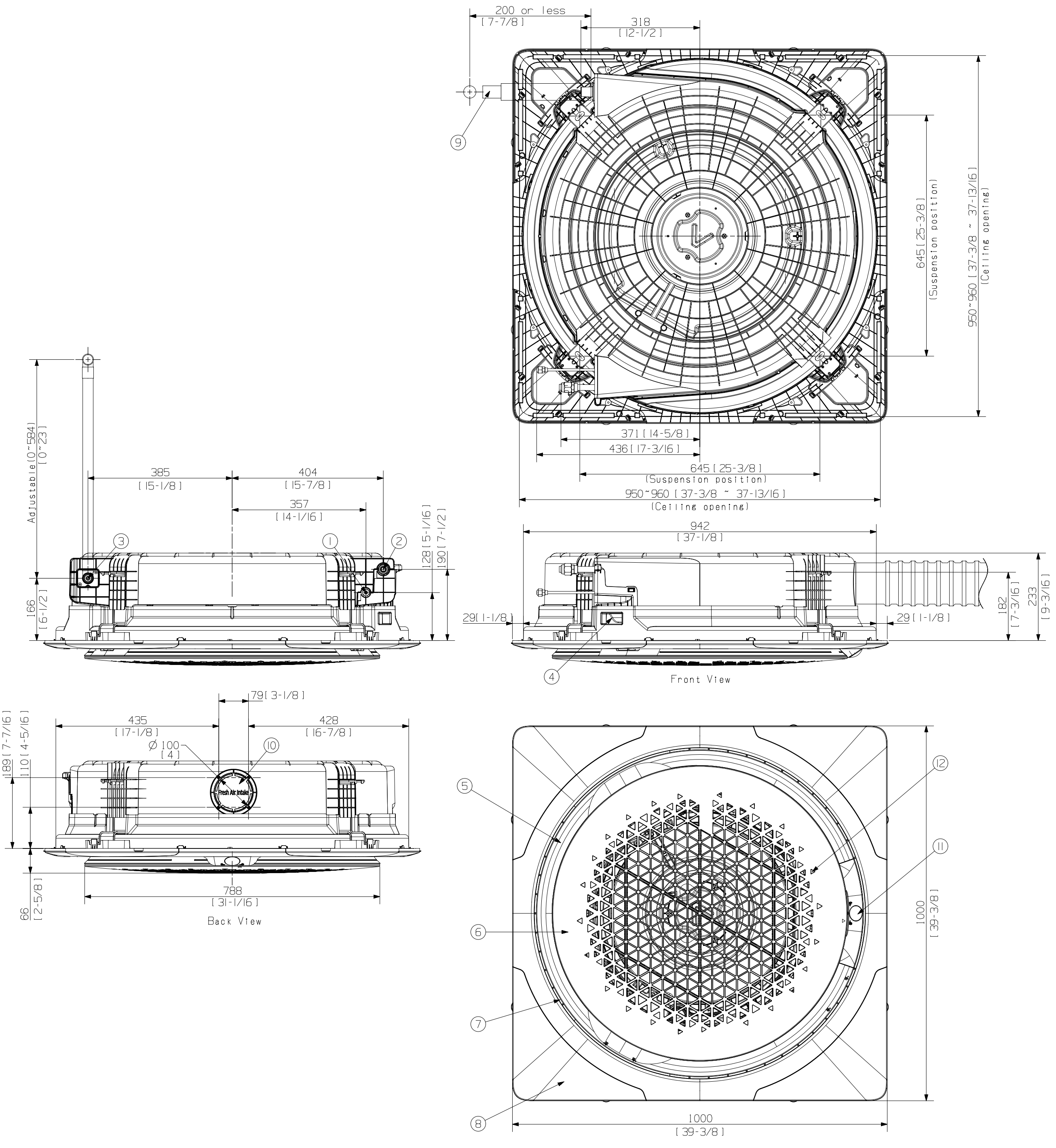
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

360 Cassette (Square)

AC071MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

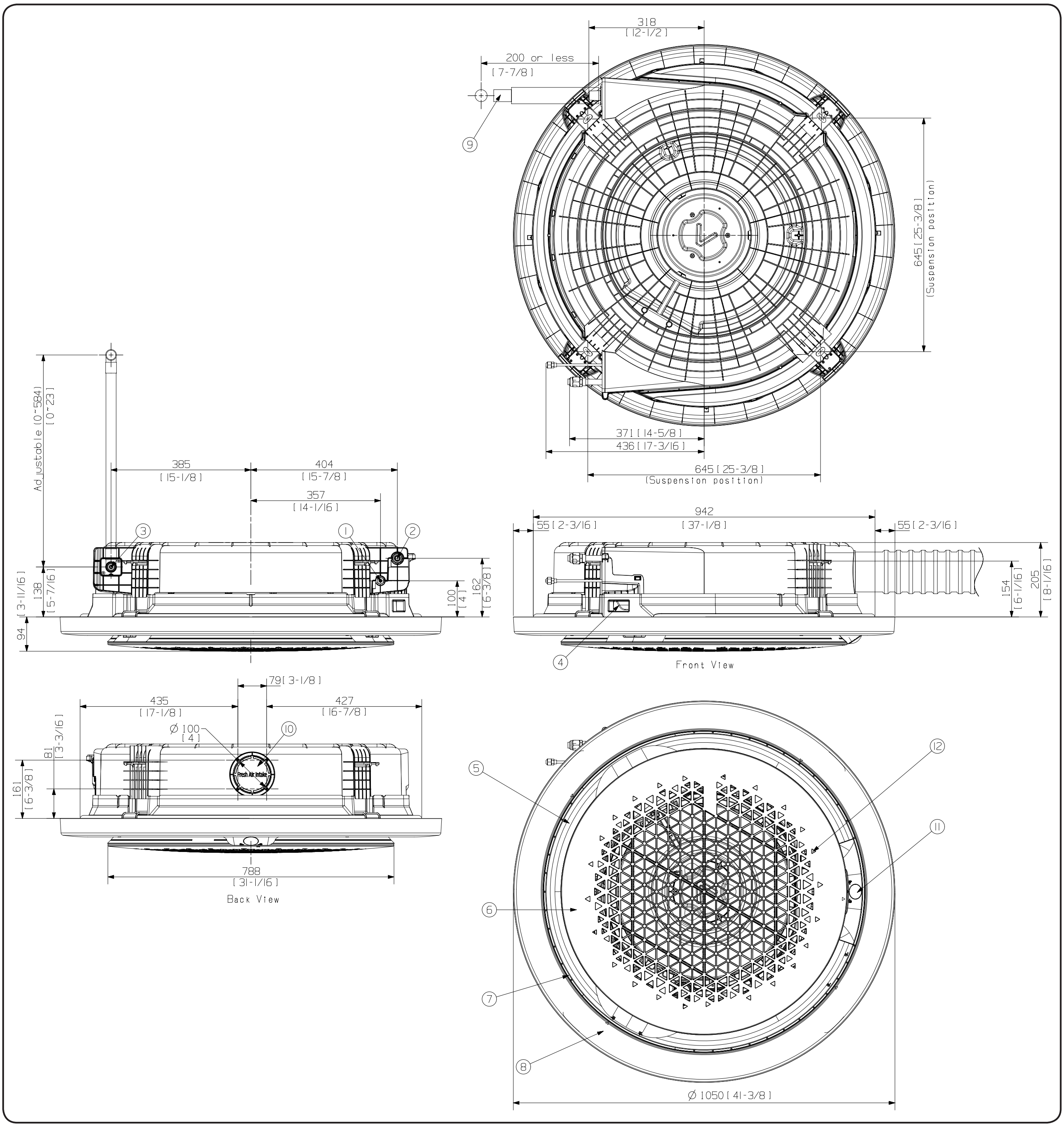
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Circle)

AC071MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circle)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

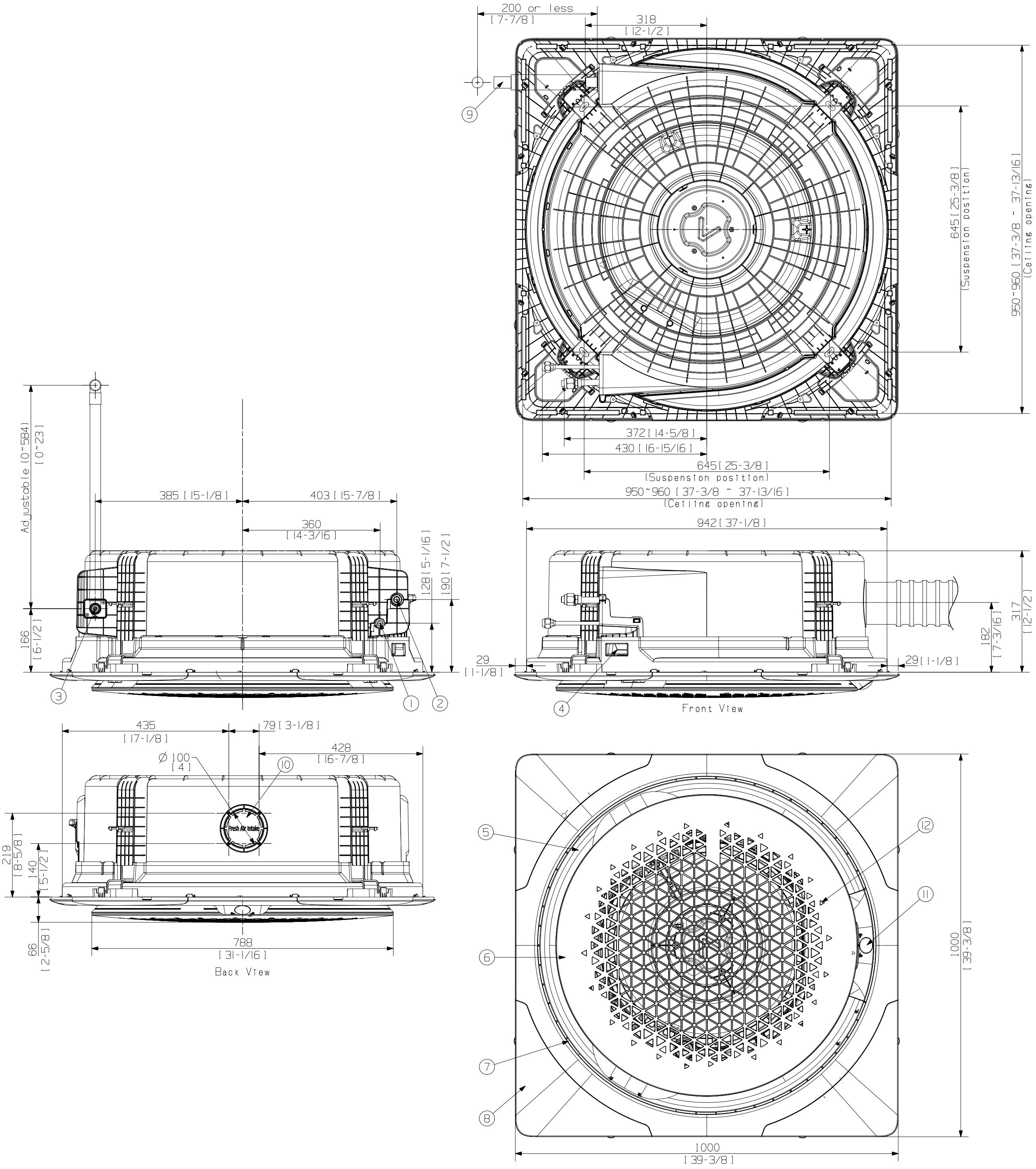
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,
  and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)
- The circular panel is by default available in exposed installation.
  Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
  (The size of an inspection hole must be at least 450 mm x 450 mm.)
- A suspended ceiling structure can substitute for the inspection holes.

4. Dimensional Drawing

360 Cassette (Square)

AC090/100/120/140MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

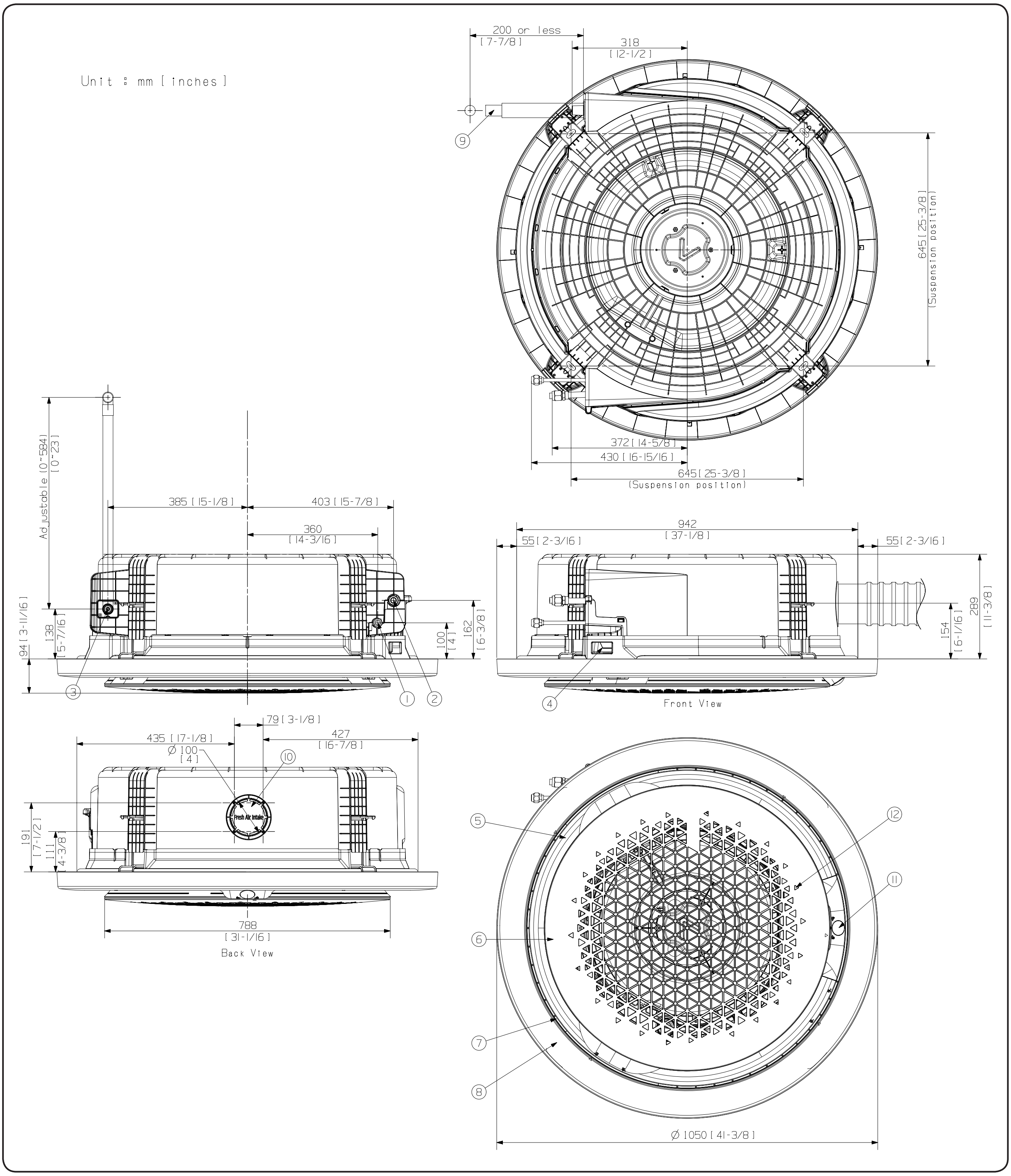
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Circle)

AC090/100/120/140MN4PKH/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circle)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ15.88(5/8)	8	Decoration cover	
3	Drain pipe connection	VP-25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power supply & Communication wiring conduit		10	Fresh air intake knockout hole	Use M4 Screw
5	Air Discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

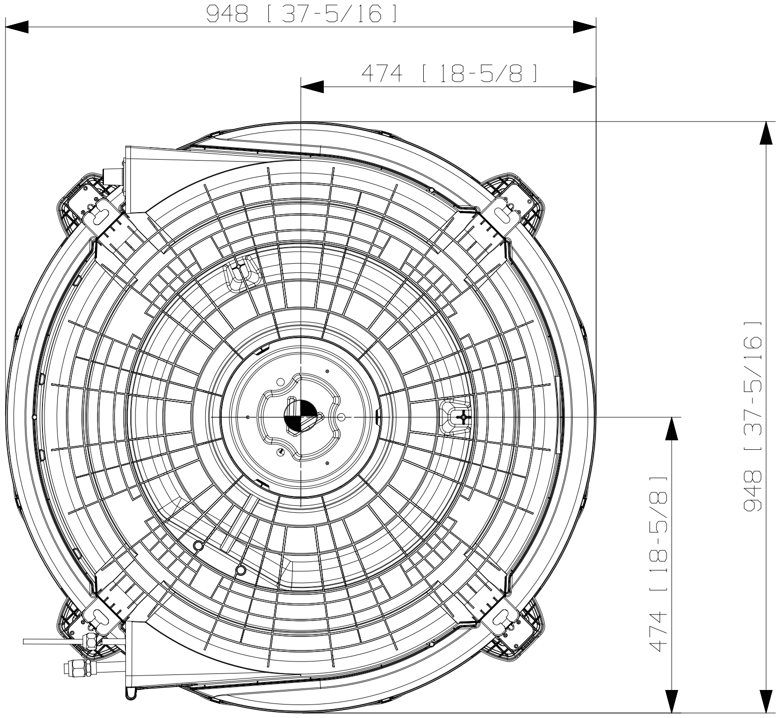
NOTE

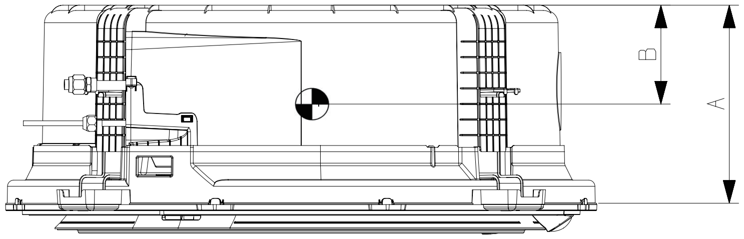
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)
- The circular panel is by default available in exposed installation.
  Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
  (The size of an inspection hole must be at least 450 mm x 450 mm.)
- A suspended ceiling structure can substitute for the inspection holes.

5. Center of Gravity

360 Cassette

Units : mm [inches]

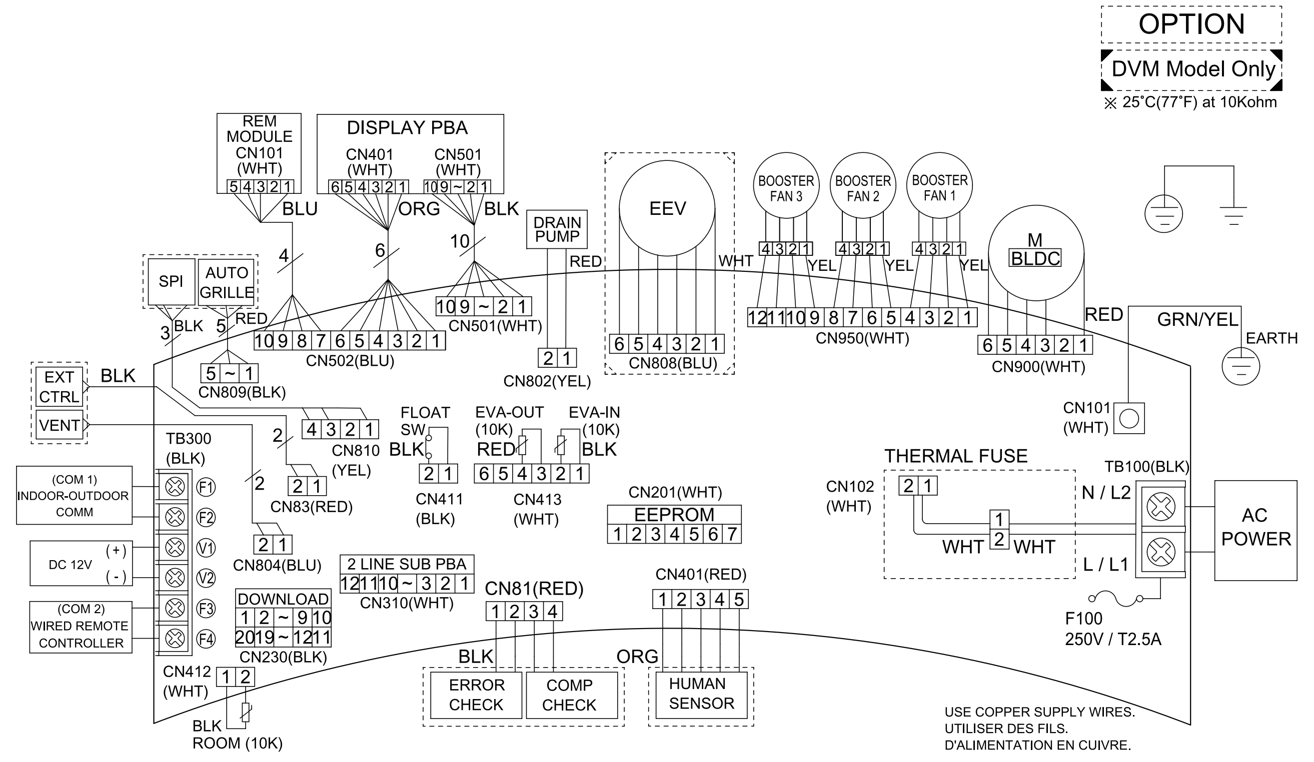




	A	B
7.1kW	233 [9-3/16]	165 [6-1/2]
9.0kW~	317 [12-1/2]	220 [8-5/8]

6. Electrical Wiring Diagram

360 Cassette



LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION	LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION
● ICE BLU	Operating	● RED	Smart Install Error(Only CAC Model)
◑ ICE BLU	Power Reset (Flickering every 2 seconds)	◑ RED - GRN Alternation of Flickering	Error of EVA- IN / OUT / DISCHARGE Sensor In the Indoor Unit (Open/short)
◑ ICE BLU	Defrosting Operation (Flickering every 10 Seconds)	◑ RED - BLU Alternation of Flickering	Error of Fan Motor In the Indoor Unit
● BLU	Reserving Mode	◑ GRN - BLU Alternation of Flickering	Detection of the Float Switch
● GRN	Filter Usage Expiration	◑ ICE BLU - BLU Alternation of Flickering	Detection of the Thermal Fuse Open
◑ RED	Error of Room Sensor In the Indoor Unit (Open/short)	◑ ICE BLU - RED Alternation of Flickering	Miss Matching Of Indoor and Outdoor Unit(Only DVM Model)
◑ BLU	Error Of Outdoor Unit	◑ ICE BLU - GRN Alternation of Flickering	Mixed Operation Mode Error of Indoor Unit(Only DVM Model)
◑ GRN	No Communication For 2 Minutes Between Indoor and Outdoor Unit	◑ RED - ICE BLU - GRN Alternation of Flickering	Error of EEPROM

2-LINE SUB PBA	Printed Circuit Board(2-LINE SUB)	**SPI**	S-Plasma ion	**ROOM(10K)**	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	**EEV**	Electronic Expansion Valve	**EVA-IN(10K)**	Thermistor EVA IN(10K)
		EXT CONTROL	EXTERNAL_CONTROL	**EVA-OUT(10K)**	Thermistor EVA OUT(10K)
		VENT	Ventilator		

NOTE

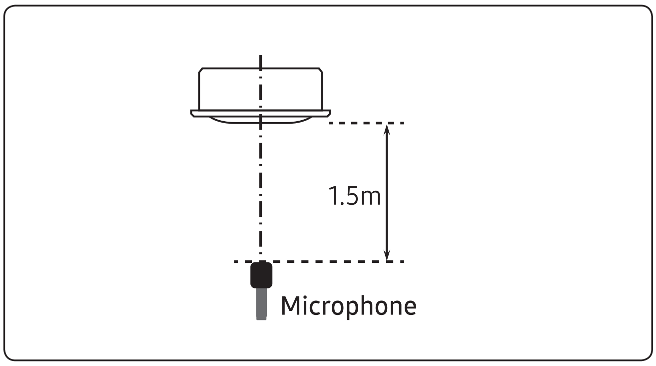
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N/ : The wire quantity

7. Sound Data

360 Cassette

Sound Pressure level

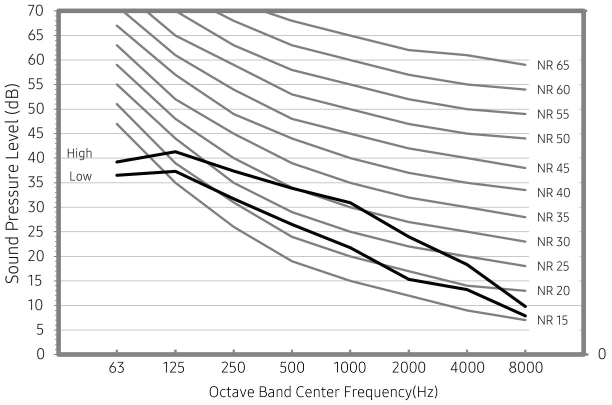
Unit: dB(A)



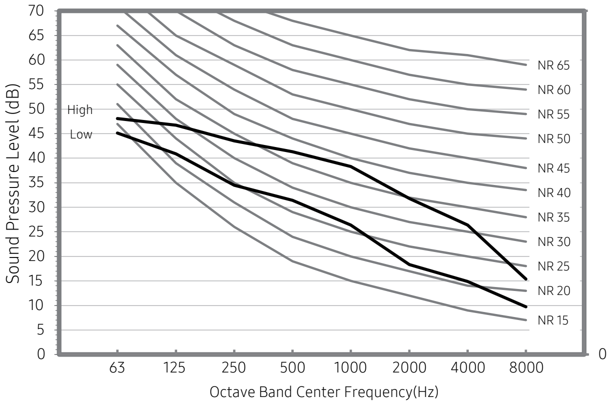
Model	Hi	MID	LOW
AC071MN4PKH/EU	36	33	29
AC090MN4PKH/EU	43	38	33
AC100MN4PKH/EU	44	39	33
AC120MN4PKH/EU	45	40	35

- NR Curve

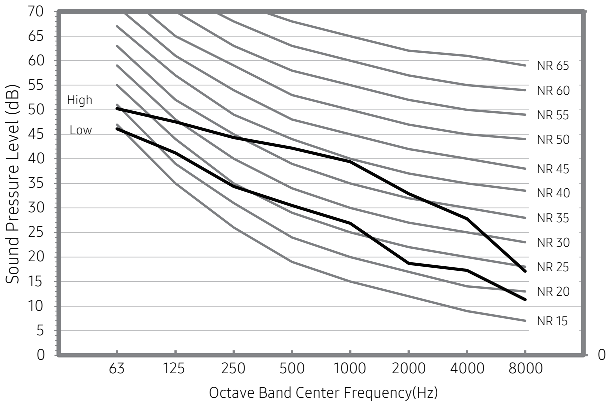
1) AC071MN4PKH/EU



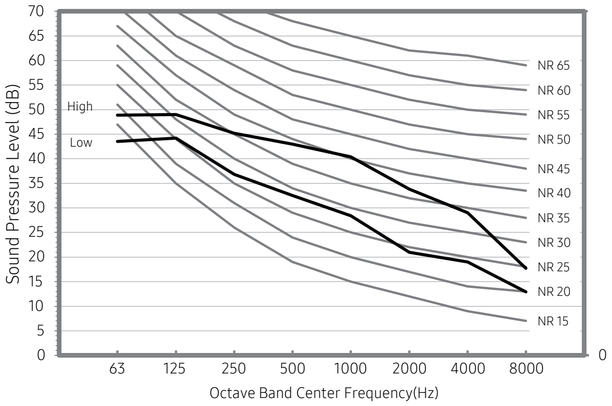
2) AC090MN4PKH/EU



3) AC100MN4PKH/EU



4) AC120MN4PKH/EU



NOTE

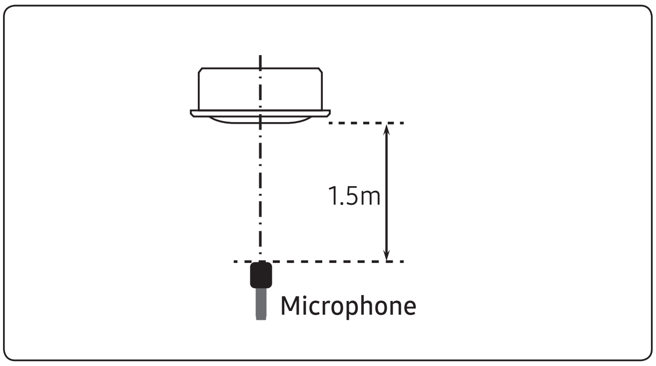
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

360 Cassette

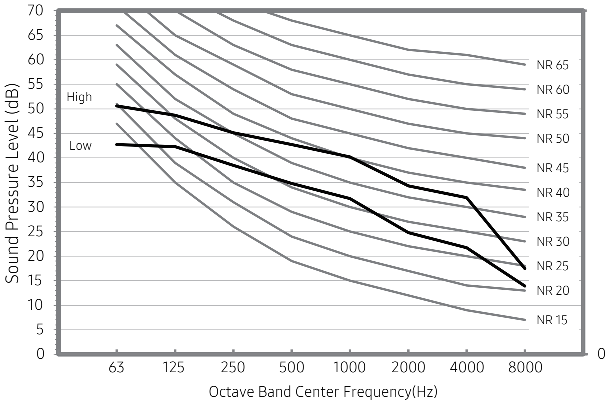
Sound Pressure level

Unit: dB(A)



Model	Hi	MID	LOW
AC140MN4PKH/EU	45	41	37

- NR Curve
  5) AC140MN4PKH/EU



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

7. Sound Data

360 Cassette

Sound Power level

NOTE

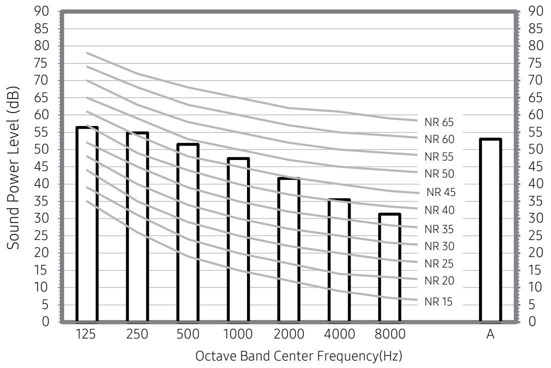
- Specifications may be subject to change without prior notice
    - Sound power level is an absolute value that a sound source generates.
    - dBA = A-weighted sound power level.
    - Reference power : 1pW.
    - Measured according to ISO 3741.

Unit: dB(A)

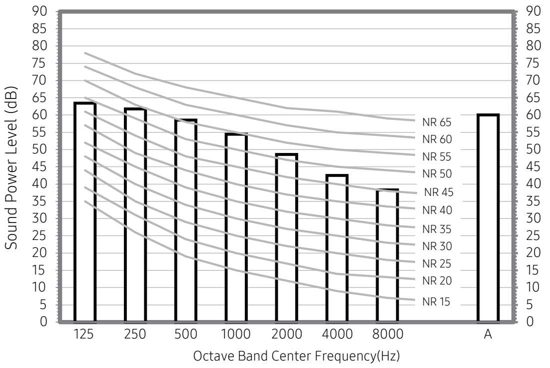
Model	Power
AC071MN4PKH/EU	53
AC090MN4PKH/EU	60
AC100MN4PKH/EU	61
AC120MN4PKH/EU	61
AC140MN4PKH/EU	61

- NR Curve

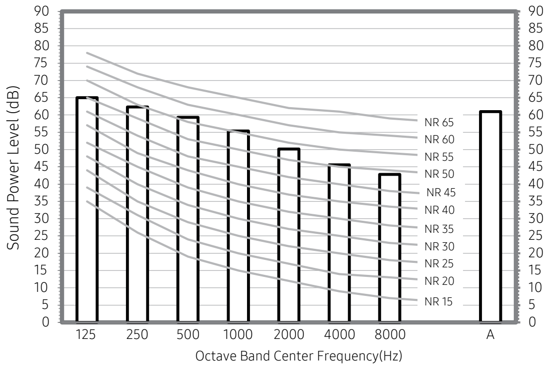
1) AC071MN4PKH/EU



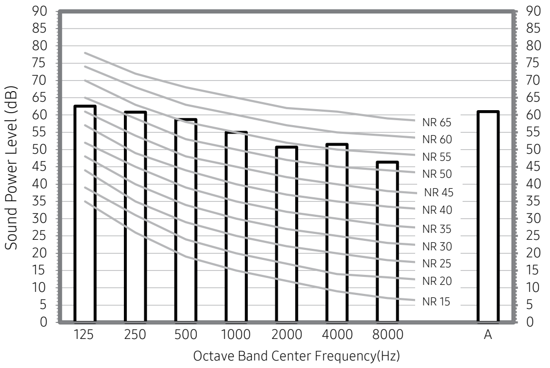
2) AC090MN4PKH/EU



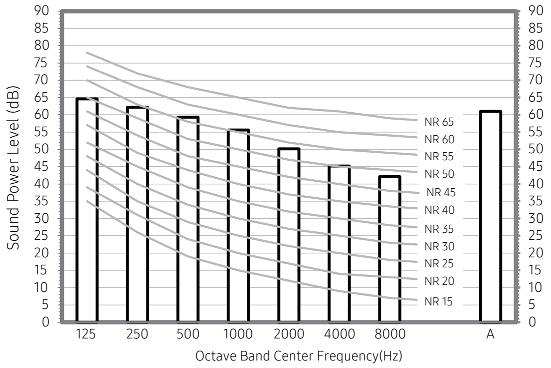
3) AC100MN4PKH/EU



4) AC120MN4PKH/EU



5) AC140MN4PKH/EU



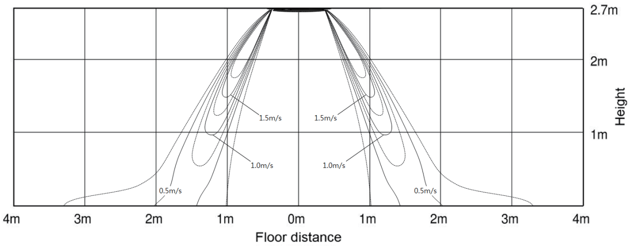
8. Temperature and air flow distribution

360 Cassette

AC071MN4PKH/EU

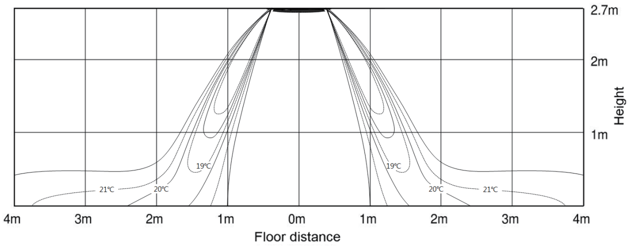
- Cooling Air Velocity distribution

  (Discharge angle : 60 degree)



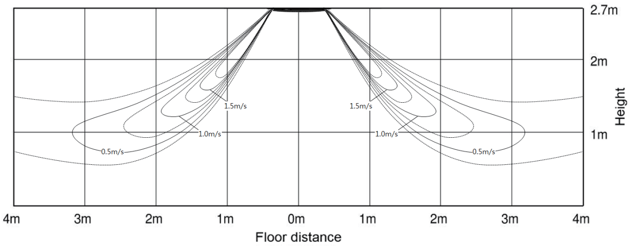
- Cooling temperature distribution

  (Discharge angle : 60 degree)



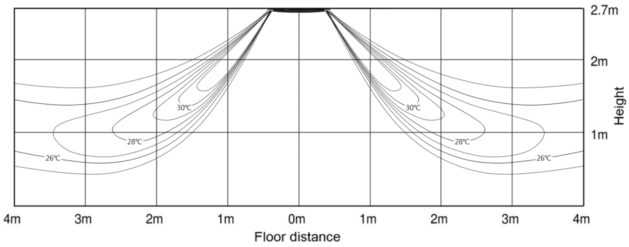
- Heating Air Velocity distribution

  (Discharge angle : 60 degree)



- Heating temperature distribution

  (Discharge angle : 60 degree)



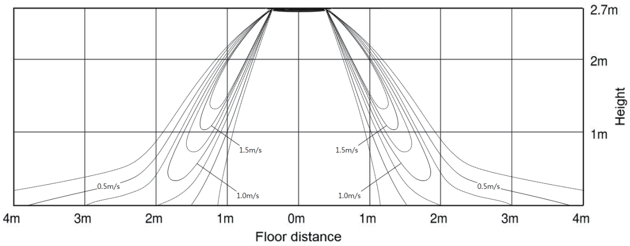
8. Temperature and air flow distribution

360 Cassette

AC090MN4PKH/EU

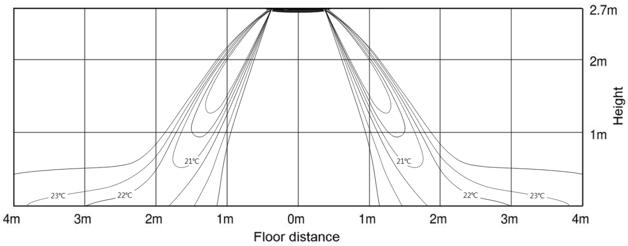
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



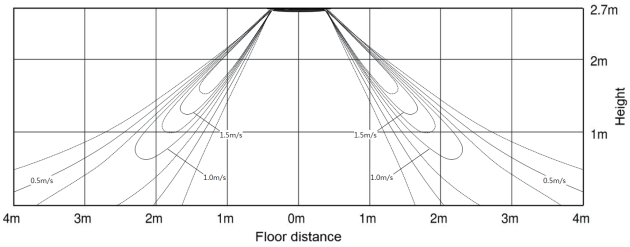
- Cooling temperature distribution

(Discharge angle : 60 degree)



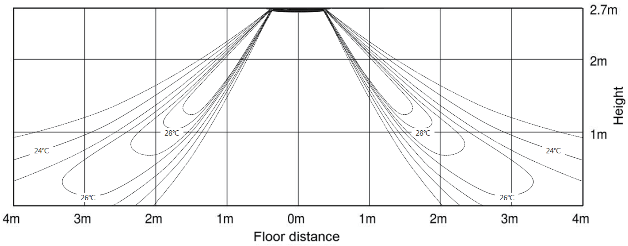
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



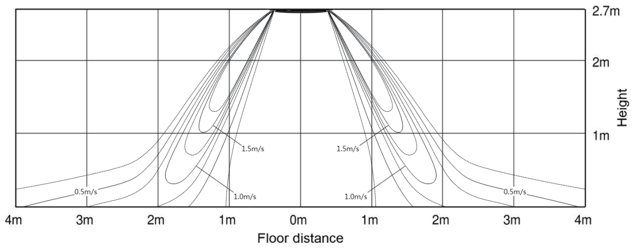
8. Temperature and air flow distribution

360 Cassette

AC100MN4PKH/EU

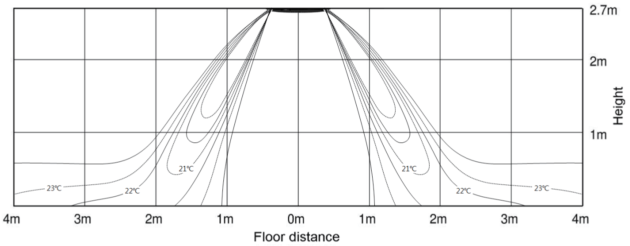
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



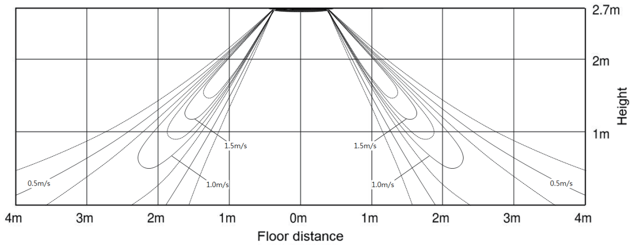
- Cooling temperature distribution

(Discharge angle : 60 degree)



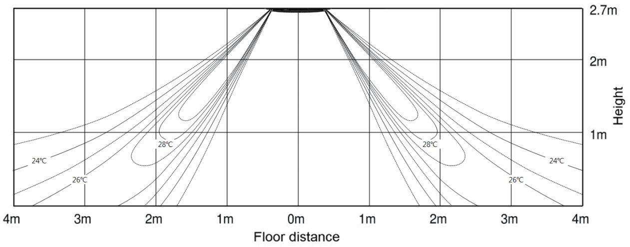
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



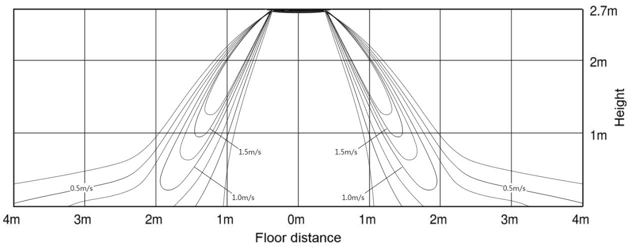
8. Temperature and air flow distribution

360 Cassette

AC120MN4PKH/EU

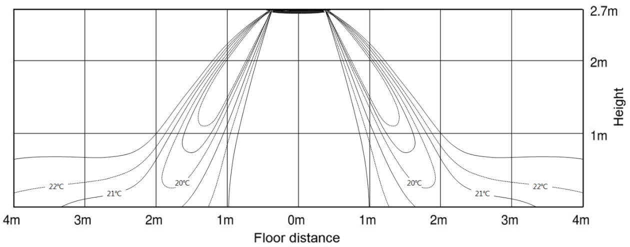
- Cooling Air Velocity distribution

  (Discharge angle : 60 degree)



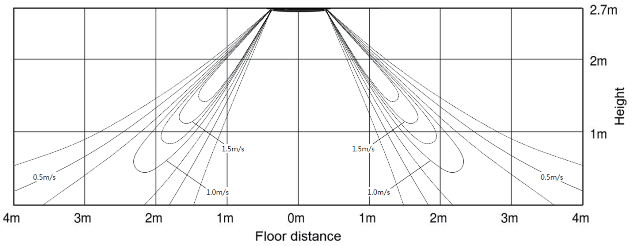
- Cooling temperature distribution

  (Discharge angle : 60 degree)



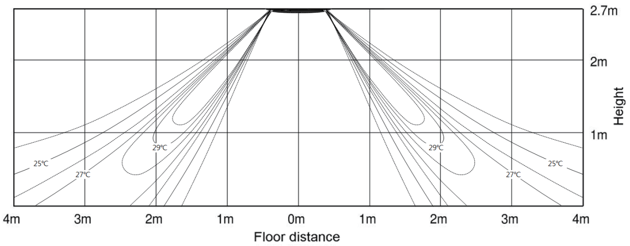
- Heating Air Velocity distribution

  (Discharge angle : 60 degree)



- Heating temperature distribution

  (Discharge angle : 60 degree)



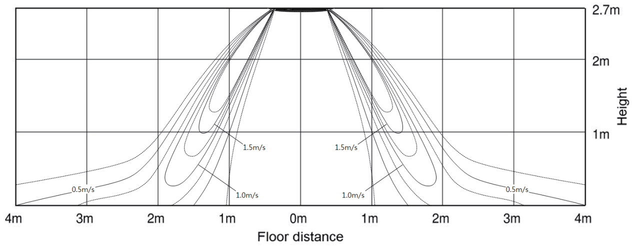
8. Temperature and air flow distribution

360 Cassette

AC140MN4PKH/EU

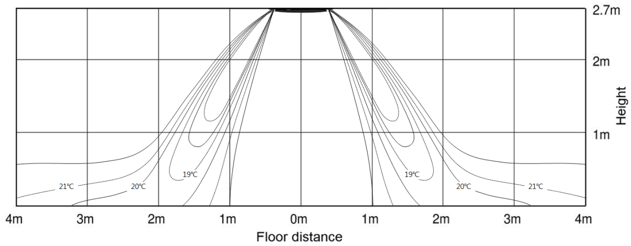
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



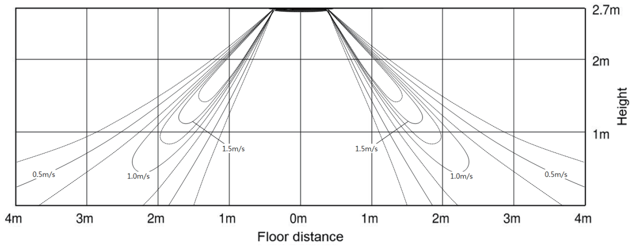
- Cooling temperature distribution

(Discharge angle : 60 degree)



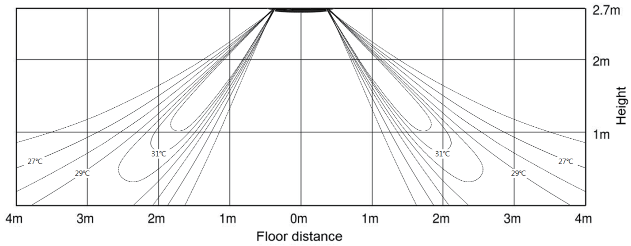
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



LSP Duct

Features & Benefits

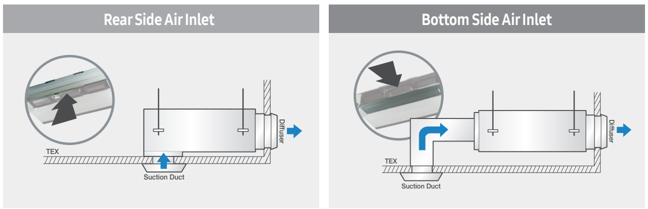
Slim Duct - Ultra-light, adaptable design

Temper any environment with industry-best lightweight design and optimized airflow

The new Samsung Slim Duct visually blends into the ceiling while providing powerful cool and warm airflow. It's also easy to install and maintain in any interior regardless of the surrounding environment with its compact size and weight—the lightest in the industry.

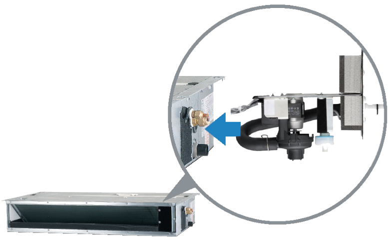
Flexible setup

The air inlet can be set up either on the bottom or rear of the unit, giving users greater flexibility in installation.



Simple drain pump installation

The new drain pump in the Slim Duct unit can be installed from the side by simply removing the right side panel. Users no longer need to disassemble the top cover to install, check or repair the drain pump for maximum convenience.

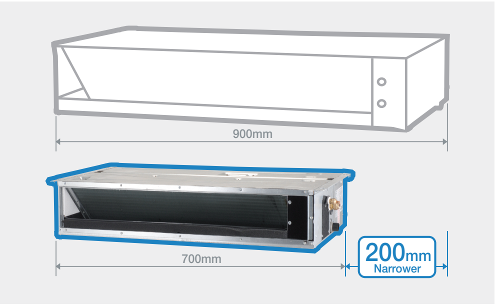


Various installation options

Slim Duct S adopts an ultra-compact, slim size with its thin width, which is 200 mm narrower than conventional products. This slender build enables flexible installation and maintenance in various environments.

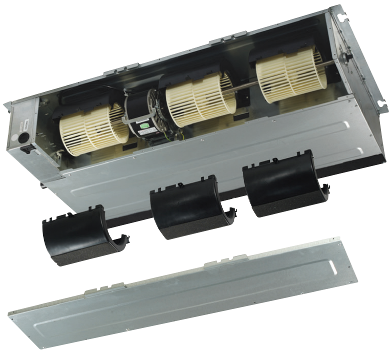
World's lightest weight

The efficient Slim Duct S is the lightest duct air conditioning unit on the market. At a weight that's 15 percent lighter than conventional units, Slim Duct S offers the best in convenient installation and maintenance.



Easy access, easy maintenance

Slim Duct features a flexible design that enables users to easily access its parts to maintain the unit.



Features & Benefits

Duct S

Overview

Samsung Ducted Type air conditioning units are a smart solution for low-maintenance, consistent cooling and heating performance in any environment. Their compact, slim frame blends seamlessly into ceilings, enhancing the beauty of the interior space and affording users more flexible installation options. Offering a comprehensive lineup, Samsung Ducted Type air conditioning units offer just the right solution for every need--from the office or shop to the restaurant kitchen.

Experience performance and convenient comfort for any weather condition

Samsung Duct S delivers unparalleled cooling and heating and flexible management with customizable comfort settings in any climate—all year round. Plus, it boasts a slim, compact size and multiple access points for easy setup exactly where needed.

Smart pressure control

Samsung Ducted Type units feature a smart pressure control system. This system adjusts the fan speed based on the external static pressure (ESP), delivering consistent cooling and heating power, regardless of the surrounding environment.

Convenient installation

The optional lift-up drain pump lifts condensed water up to 750 mm, compared to a limit of 700 mm on conventional models, for flexible and convenient installation.

The Duct S indoor air conditioning unit delivers smooth, consistent operation and convenience with features such as:

- Efficient operation. Stage the desired atmosphere with energy-efficient performance and customized airflow.
- Smart management. Cool spaces efficiently and manage the air conditioning unit even while away, with features designed for efficiency and control.
- Easy, flexible setup. Install and maintain even multiple units with a compact and easily accessible design.

1. Specification

LSP Duct

1.05 / 2.19	Model Name	Indoor Unit			AC026MNLDKH/EU	AC035MNLDKH/EU	AC052MNLDKH/EU	AC071MNLDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	0.95 / 2.60 / 3.50	1.00 / 3.50 / 4.10	1.20 / 5.00 / 6.00	2.20 / 7.10 / 8.00
				Btu/h	3,200 / 8,900 / 11,900	3,400 / 11,900 / 14,000	4,100 / 17,100 / 20,500	7,500 / 24,200 / 27,300
			Heating (Min/Std/Max)	kW	0.98 / 3.30 / 4.30	1.00 / 4.00 / 5.00	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00
				Btu/h	3,300 / 11,300 / 14,700	3,400 / 13,600 / 17,100	3,800 / 20,500 / 24,600	6,500 / 27,300 / 30,700
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.24 / 0.76 / 1.20	0.24 / 1.20 / 1.50	0.35 / 1.74 / 2.20	0.35 / 2.33 / 3.95
			Heating (Min/Std/Max)	kW	0.20 / 0.87 / 1.45	0.19 / 1.22 / 1.80	0.26 / 1.70 / 2.70	0.35 / 2.27 / 3.95
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 4.10 / 5.50	1.60 / 5.90 / 7.50	2.10 / 7.80 / 10.00	2.00 / 10.50 / 17.00
			Heating (Min/Std/Max)	A	1.30 / 4.70 / 7.00	1.30 / 5.90 / 10.50	1.70 / 7.50 / 12.00	2.00 / 10.20 / 17.00
		Current	MCA	A	11.7	11.7	21.7	21.7
			MFA	A	12.9	12.9	25	25
	Efficiency	EER	Cooling	W/W	3.42	2.92	2.87	3.05
		COP	Heating	W/W	3.79	3.28	3.53	3.52
		SEER (Cooling Energy Grade)		W/W	6.1 (A++)	5.9 (A+)	6.1 (A++)	5.9 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	3.9 (A)	3.9 (A)
		Pdesignh		kW	2	2	2.4	3.7
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	12.7	15.88
				Φ, inch	3/8	3/8	1/2	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5	5
			Max.	m	20	20	30	50
			Elevation	m	15	15	20	30
			Chargeless	m	20	20	5	5
	Wiring connections	Power Source Wire		mm^2	-	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.05 / 2.19	1.05 / 2.19	1.3 / 2.71	1.5 / 3.13

1. Specification

LSP Duct

1.05 / 2.19	Model Name	Indoor Unit			AC026MNLDKH/EU	AC035MNLDKH/EU	AC052MNLDKH/EU	AC071MNLDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
Indoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	2	2	2
		Air Flow Rate	High/Mid/Low	CMM	9.0 / 8.2 / 7.4	9.5 / 8.5 / 7.5	13.5 /11.5 / 9.5	19.0 / 14.5 / 10.0
				l/s	150.0 / 136.7 / 123.3	158.3 / 141.7 / 125.0	225.0 / 191.7 / 158.3	316.7 / 241.7 / 166.7
		External Static Pressure	Min/Std/Max	mmAq	0/2.5/4	0/2.5/4	0/3.0/4.0	0/3.0/4.0
				Pa	0/25/39	0/25/39	0/29/39	0/29/39
	Fan Motor	Output		W x n	68 x 1	68 x 1	153 x 1	153 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	32 / 29 / 26	33 / 30 / 27	33 / 30 / 27	37 / 32 / 27
		Sound Power Level		dB(A)	53	53	55	59
	External Dimension	Net Weight		kg	19.4	19.4	23.4	23.4
		Shipping Weight		kg	23.8	23.8	27	27
		Net Dimensions (WxHxD)		mm	700 x 199 x 600	700 x 199 x 600	1100 x 200 x 450	1100 x 200 x 450
		Shipping Dimensions (WxHxD)		mm	951 x 280 x 709	951 x 280 x 709	1319 x 270 x 529	1319 x 270 x 529
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-E075SEE3D	MDP-E075SEE3D	-	-
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-	-

1. Specification

LSP Duct

1.05 / 2.19	Model Name	Indoor Unit			AC026MNLDKH/EU	AC035MNLDKH/EU	AC052MNLDKH/EU	AC071MNLDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	FMC	FMC
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Al	Al
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER	UG9TK3150FE4	UG4T200FUAE4
		Output		kW	0.83	0.83	1.42	1.79
		Oil	Type	-	POE	POE	POE	POE
			Initial charge	cc	320	320	500	650
	Fan	Type		-	Propeller	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front	Front
		Quantity		EA	1	1	1	1
		Air Flow Rate		CMM	29	30	40	51
				l/s	483	500	667	850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48	49
			Heating	dB(A)	47	48	48	51
		Sound Power Level		dB(A)	59	61	62	65
	External Dimension	Net Weight		kg	32.8	32.8	43.8	53
		Shipping Weight		kg	35.8	35.8	47.5	57.2
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384	1023 x 730 x 413	1023 x 911 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

LSP Duct

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026MNLDKH/EU	19.4	Max.	3.5	4.3	High	9.0 / 10.0	32	53
		Std.	2.6	3.3	Mid	8.2 / 9.0	29	-
		Min.	0.95	0.98	Low	7.4 / 8.0	26	-
AC035MNLDKH/EU	19.4	Max.	4.1	5.0	High	9.5 / 10.0	33	53
		Std.	3.5	4.0	Mid	8.5 / 9.0	30	-
		Min.	1.0	1.0	Low	7.5 / 8.0	27	-
AC052MNLDKH/EU	23.4	Max.	6.0	7.2	High	13.5 / 16.0	33	55
		Std.	5.0	6.0	Mid	11.5 / 14.0	30	-
		Min.	1.2	1.1	Low	9.5 / 12.0	27	-
AC071MNLDKH/EU	23.4	Max.	8.0	9.0	High	19.0 / 19.0	37	59
		Std.	7.1	8.0	Mid	14.5 / 14.5	32	-
		Min.	2.2	1.9	Low	10.0 / 10.0	27	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MNLDKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1.7	11.7	11.7	13
AC035MNLDKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1.7	11.7	11.7	13
AC052MNLDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1.7	21.7	21.7	25
AC071MNLDKH/EU	AC071MXADKH/EU	50	380 to 415	342	456.5	20	20	1.7	21.7	21.7	25

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

LSP Duct

(1) AC026MNLDKH/EU + AC026MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.54	2.15	0.49	2.67	2.21	0.50	2.78	2.28	0.51	2.87	2.35	0.52	2.92	2.33	0.52	3.07	2.30	0.53	3.22	2.26	0.54
21	2.42	2.04	0.51	2.54	2.11	0.52	2.65	2.17	0.53	2.73	2.24	0.54	2.78	2.22	0.55	2.92	2.19	0.55	3.07	2.15	0.57
35	2.30	1.95	0.64	2.42	2.01	0.65	2.52	2.07	0.67	2.60	2.13	0.68	2.65	2.11	0.69	2.78	2.09	0.69	2.92	2.05	0.71
46	1.96	1.80	0.58	2.06	1.86	0.59	2.14	1.92	0.60	2.21	1.97	0.61	2.25	1.95	0.62	2.37	1.93	0.62	2.49	1.90	0.64
50	1.50	1.42	0.51	1.57	1.46	0.52	1.64	1.51	0.53	1.69	1.55	0.54	1.72	1.54	0.55	1.81	1.52	0.55	1.90	1.49	0.57

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.39	1.19	2.37	1.18	2.35	1.17	2.32	1.16	2.30	1.15	2.28	1.14
-15	3.02	1.38	2.99	1.36	2.96	1.35	2.93	1.34	2.90	1.32	2.87	1.31
-5	3.40	1.29	3.37	1.27	3.33	1.26	3.30	1.25	3.27	1.23	3.23	1.22
0	3.54	1.10	3.50	1.09	3.47	1.08	3.43	1.07	3.40	1.06	3.36	1.05
7	3.47	0.92	3.43	0.91	3.40	0.90	3.37	0.89	3.33	0.88	3.30	0.87
24	4.51	1.06	4.46	1.05	4.42	1.04	4.38	1.02	4.33	1.01	4.29	1.00

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

LSP Duct

(2) AC035MNLDKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.54	0.86	3.59	2.61	0.88	3.74	2.69	0.89	3.86	2.78	0.91	3.94	2.75	0.92	4.13	2.72	0.93	4.34	2.67	0.95
21	3.25	2.41	0.90	3.42	2.49	0.92	3.56	2.57	0.94	3.68	2.65	0.96	3.75	2.62	0.97	3.94	2.59	0.98	4.13	2.54	1.00
35	3.10	2.30	1.13	3.26	2.37	1.15	3.40	2.44	1.18	3.50	2.52	1.20	3.57	2.49	1.21	3.75	2.47	1.22	3.94	2.42	1.25
46	2.63	2.29	1.02	2.77	2.36	1.04	2.89	2.44	1.06	2.98	2.51	1.08	3.03	2.49	1.09	3.19	2.46	1.10	3.35	2.41	1.12
50	2.01	1.85	0.90	2.12	1.91	0.92	2.21	1.96	0.94	2.28	2.02	0.96	2.32	2.00	0.97	2.44	1.98	0.98	2.56	1.94	1.00

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	1.62	2.79	1.60	2.76	1.59	2.73	1.57	2.71	1.55	2.68	1.54
-15	3.55	1.87	3.51	1.85	3.48	1.83	3.45	1.81	3.41	1.79	3.38	1.78
-5	4.00	1.74	3.96	1.73	3.92	1.71	3.88	1.69	3.84	1.67	3.80	1.66
0	4.16	1.49	4.12	1.48	4.08	1.46	4.04	1.45	4.00	1.43	3.96	1.42
7	4.08	1.24	4.04	1.23	4.00	1.22	3.96	1.21	3.92	1.20	3.88	1.18
24	5.30	1.43	5.25	1.42	5.20	1.40	5.15	1.39	5.10	1.38	5.05	1.36

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

LSP Duct

(3) AC052MNLDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	3.77	1.24	5.13	3.89	1.27	5.35	4.01	1.30	5.51	4.13	1.32	5.62	4.09	1.34	5.90	4.05	1.35	6.20	3.97	1.38
21	4.64	3.59	1.31	4.89	3.70	1.34	5.09	3.82	1.36	5.25	3.94	1.39	5.36	3.90	1.41	5.62	3.86	1.42	5.90	3.78	1.45
35	4.42	3.42	1.64	4.66	3.53	1.67	4.85	3.64	1.71	5.00	3.75	1.74	5.10	3.71	1.76	5.36	3.68	1.77	5.62	3.60	1.81
46	3.76	3.19	1.47	3.96	3.29	1.50	4.12	3.39	1.53	4.25	3.50	1.57	4.34	3.46	1.58	4.55	3.43	1.60	4.78	3.36	1.63
50	2.88	2.52	1.31	3.03	2.60	1.34	3.15	2.68	1.36	3.25	2.76	1.39	3.32	2.73	1.41	3.48	2.71	1.42	3.65	2.65	1.45

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	2.25	4.18	2.23	4.14	2.21	4.10	2.19	4.06	2.17	4.02	2.14
-15	5.32	2.60	5.27	2.58	5.22	2.55	5.17	2.52	5.12	2.50	5.06	2.47
-5	6.00	2.43	5.94	2.40	5.88	2.38	5.82	2.36	5.76	2.33	5.71	2.31
0	6.24	2.08	6.18	2.06	6.12	2.04	6.06	2.02	6.00	2.00	5.94	1.98
7	6.12	1.73	6.06	1.72	6.00	1.70	5.94	1.68	5.88	1.67	5.82	1.65
24	7.96	1.99	7.88	1.97	7.80	1.96	7.72	1.94	7.64	1.92	7.57	1.90

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

LSP Duct

(4) AC071MNLDKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	5.43	1.67	7.29	5.60	1.70	7.59	5.77	1.74	7.83	5.95	1.77	7.98	5.89	1.79	8.38	5.83	1.81	8.80	5.71	1.84
21	6.59	5.17	1.75	6.94	5.33	1.79	7.23	5.50	1.83	7.46	5.67	1.86	7.60	5.61	1.88	7.98	5.55	1.90	8.38	5.44	1.94
35	6.28	4.92	2.19	6.61	5.08	2.24	6.89	5.23	2.28	7.10	5.40	2.33	7.24	5.34	2.35	7.60	5.29	2.38	7.98	5.18	2.42
46	5.34	4.51	1.97	5.62	4.65	2.01	5.85	4.79	2.06	6.04	4.94	2.10	6.16	4.89	2.12	6.46	4.84	2.14	6.79	4.75	2.18
50	4.08	3.54	1.75	4.30	3.65	1.79	4.48	3.76	1.83	4.62	3.88	1.86	4.71	3.84	1.88	4.94	3.80	1.90	5.19	3.72	1.94

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	3.01	5.58	2.98	5.52	2.95	5.46	2.92	5.41	2.89	5.36	2.86
-15	7.10	3.47	7.03	3.44	6.96	3.41	6.89	3.37	6.82	3.34	6.75	3.30
-5	8.00	3.24	7.92	3.21	7.84	3.18	7.76	3.15	7.68	3.11	7.61	3.08
0	8.32	2.78	8.24	2.75	8.16	2.72	8.08	2.70	8.00	2.67	7.92	2.64
7	8.16	2.32	8.08	2.29	8.00	2.27	7.92	2.25	7.84	2.22	7.76	2.20
24	10.61	2.66	10.50	2.64	10.40	2.61	10.30	2.58	10.19	2.56	10.09	2.53

NOTE

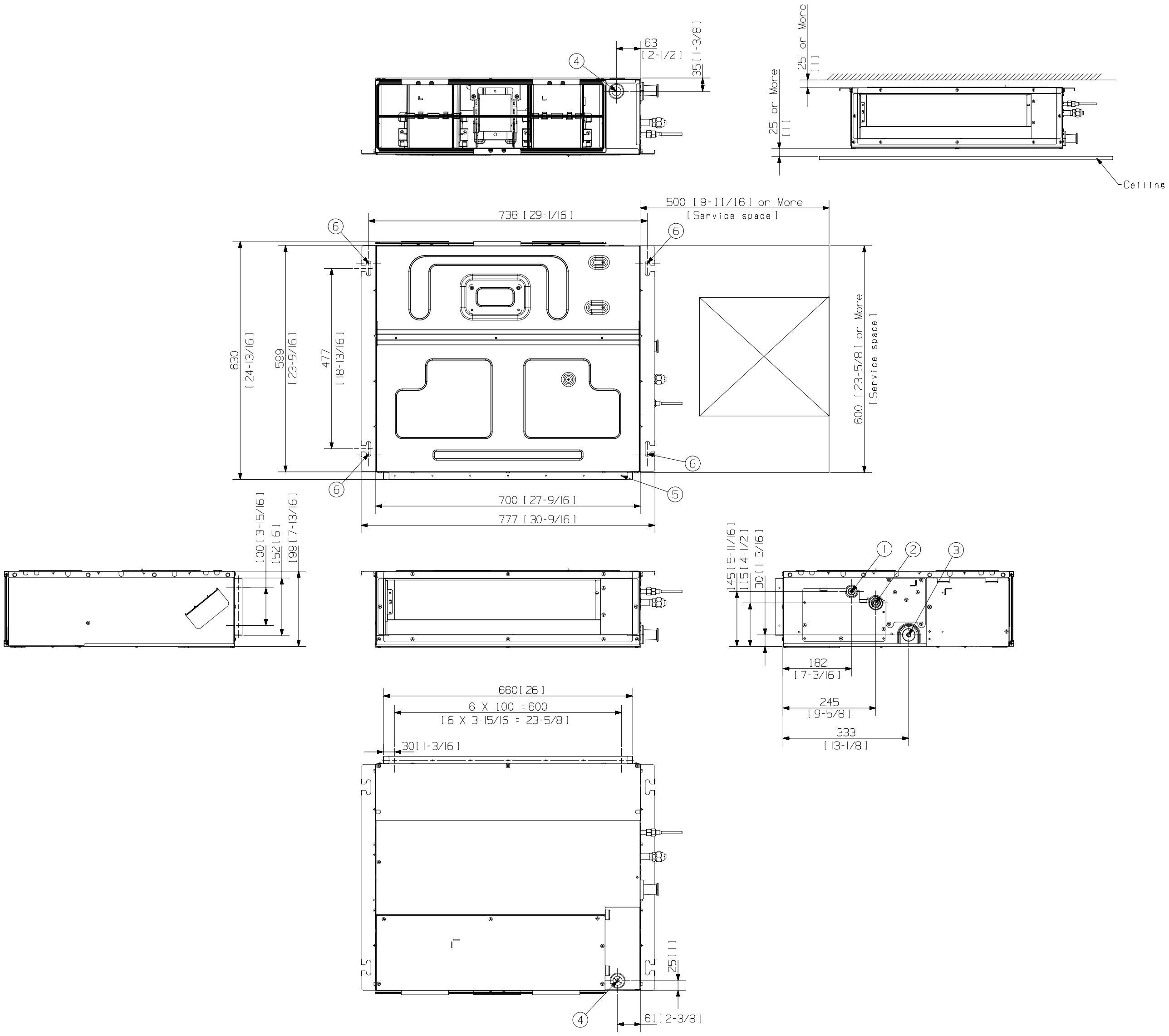
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

LSP Duct (Slim duct)

AC026/035MNLDKH/EU

Units : mm [inches]



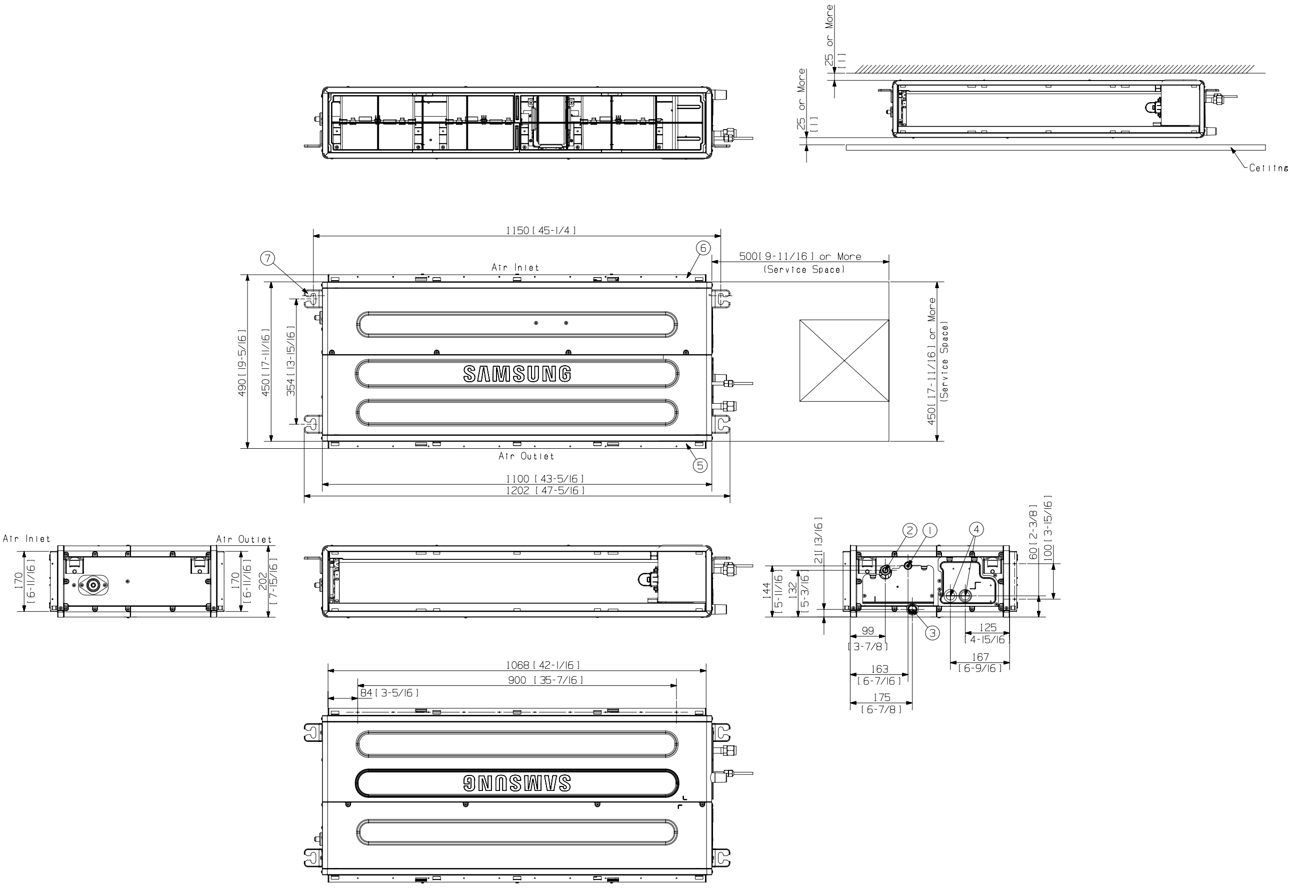
No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ9.52(3/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Hook	Use M8~M10 bolt(4ea)

4. Dimensional Drawing

LSP Duct (Duct S)

AC052/071MNLDKH/EU

Units : mm [inches]



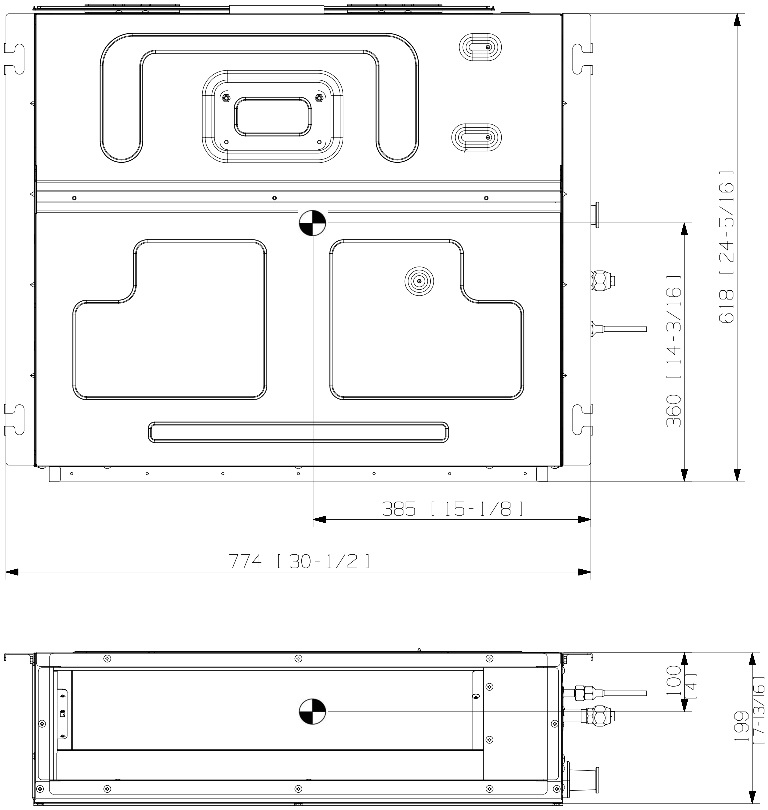
No.	Name	Description	
		AC052MNLDKH/EU	AC071MNLDKH/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit		
5	Air suction flange		
6	Air discharge flange		
7	Hook	Use M8~M10 bolt(4ea)	

5. Center of Gravity

LSP Duct

AC026/035MNLDKH/EU

Units : mm [inches]

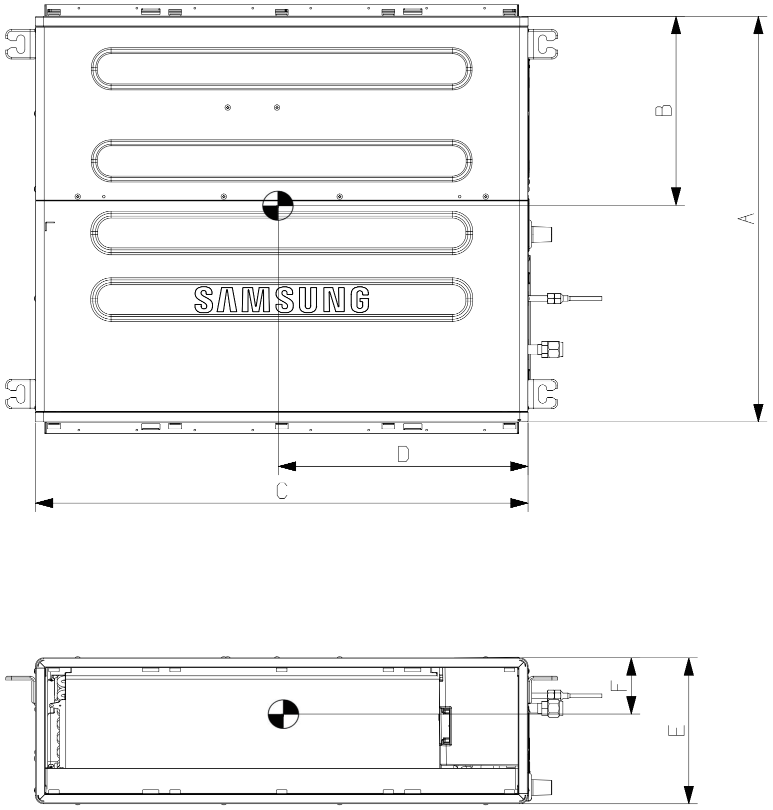


5. Center of Gravity

LSP Duct

AC052/071MNLDKH/EU

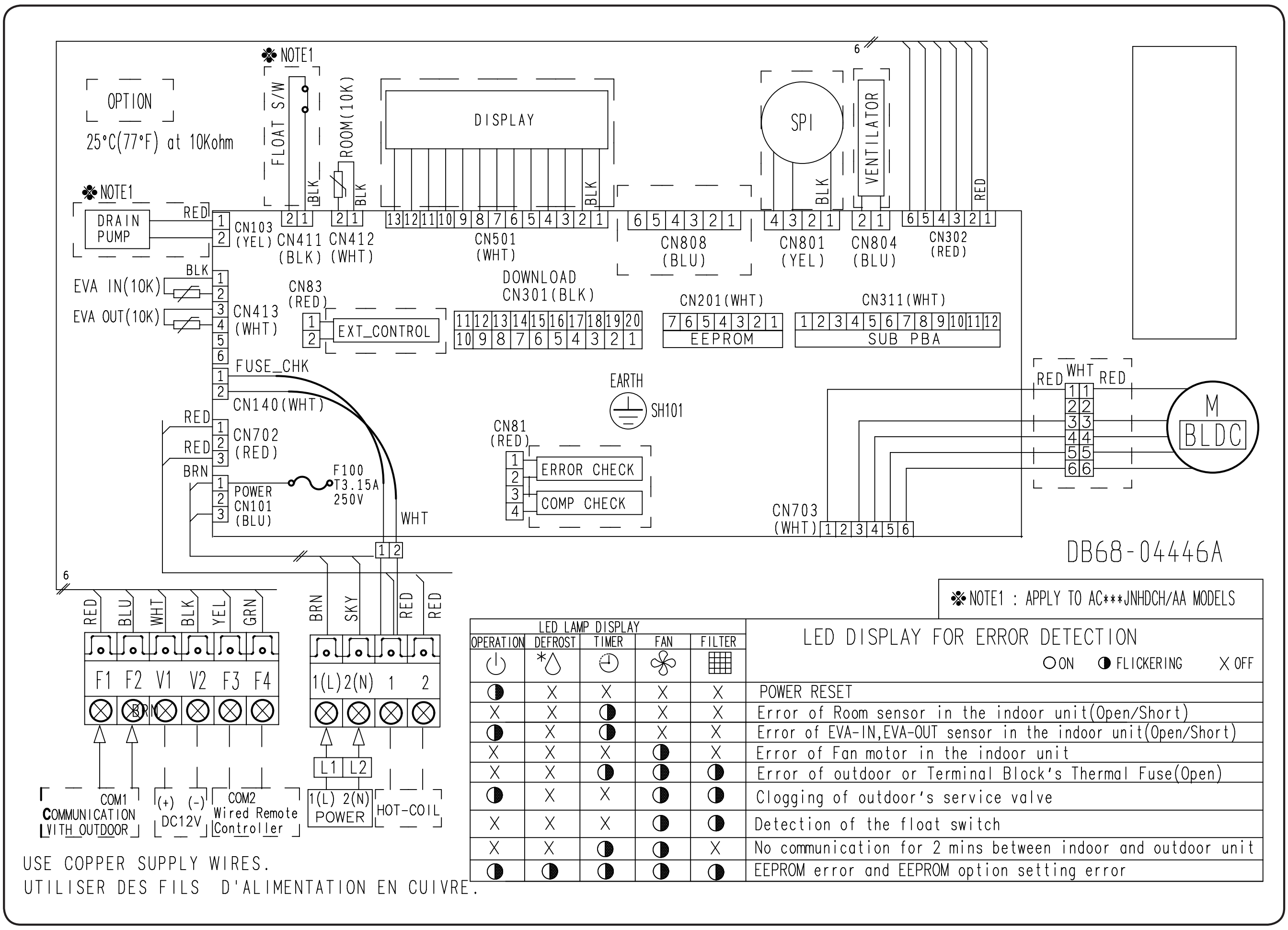
Units : mm [inches]



	A	B	C	D	E	F
5.2kW ~ 7.1kW	450 [17-11/16]	220 [8-5/8]	1100 [43-5/16]	520 [20-1/2]	202 [7-15/16]	100 [3-15/16]

6. Electrical Wiring Diagram

LSP Duct



✽NOTE1 : APPLY TO AC***JNHDCH/AA MODELS

LED DISPLAY FOR ERROR DETECTION

○ON ◑ FLICKERING X OFF

LED LAMP DISPLAY					
OPERATION	DEFROST	TIMER	FAN	FILTER	
◑	X	X	X	X	POWER RESET
X	X	◑	X	X	Error of Room sensor in the indoor unit(Open/Short)
◑	X	◑	X	X	Error of EVA-IN,EVA-OUT sensor in the indoor unit(Open/Short)
X	X	X	◑	X	Error of Fan motor in the indoor unit
X	X	◑	◑	◑	Error of outdoor or Terminal Block's Thermal Fuse(Open)
◑	X	X	◑	◑	Clogging of outdoor's service valve
X	X	X	◑	◑	Detection of the float switch
X	X	◑	◑	X	No communication for 2 mins between indoor and outdoor unit
◑	◑	◑	◑	◑	EEPROM error and EEPROM option setting error

SUB PBA	Printed Circuit Board(SUB)	**SPI**	S-Plasma ion	**ROOM(10K)**	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	**EEV**	Electronic Expansion Valve	**EVA IN(10K)**	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	**EVA OUT(10K)**	Thermistor EVA OUT(10K)

NOTE

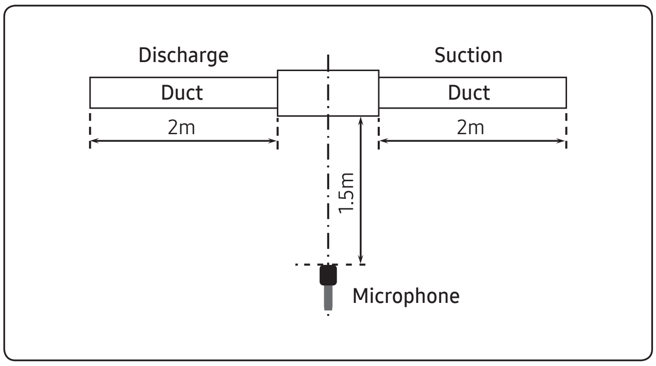
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N⁄ : The wire quantity

7. Sound Data

LSP Duct

Sound Pressure level

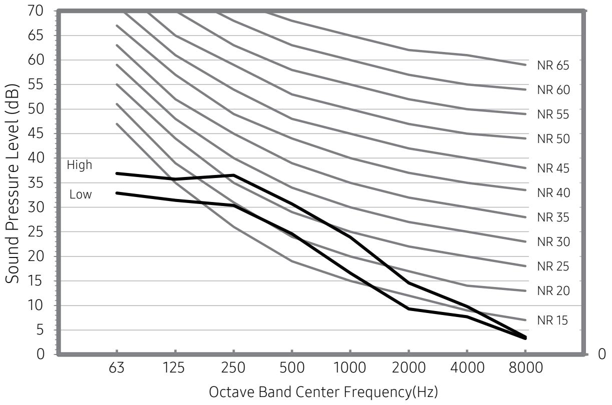
Unit: dB(A)



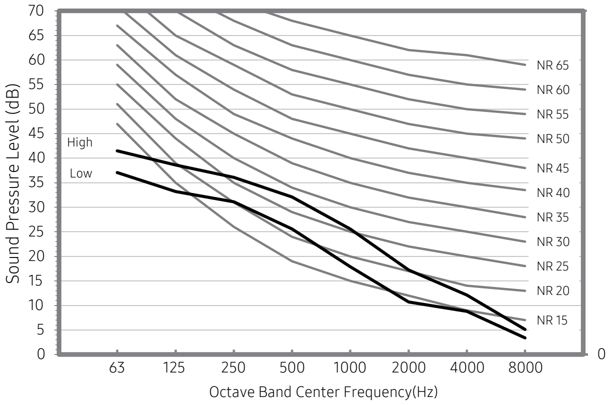
Model	Hi	MID	LOW
AC026MNLDKH/EU	32	29	26
AC035MNLDKH/EU	33	30	27
AC052MNLDKH/EU	33	30	27
AC071MNLDKH/EU	37	32	27

- NR Curve

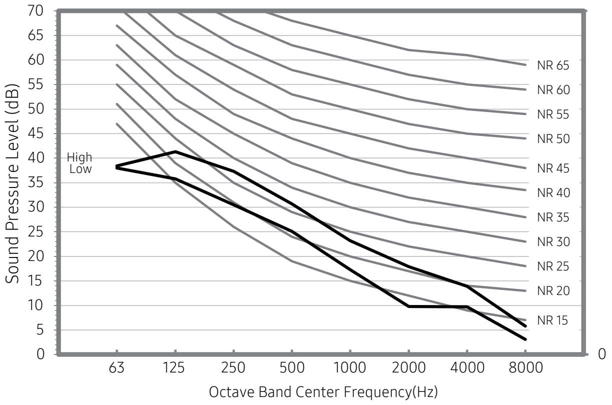
1) AC026MNLDKH/EU



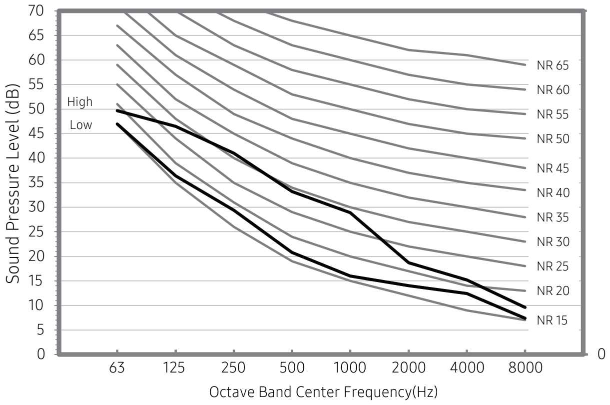
2) AC035MNLDKH/EU



3) AC052MNLDKH/EU



4) AC071MNLDKH/EU



7. Sound Data

LSP Duct

Sound Power level

NOTE

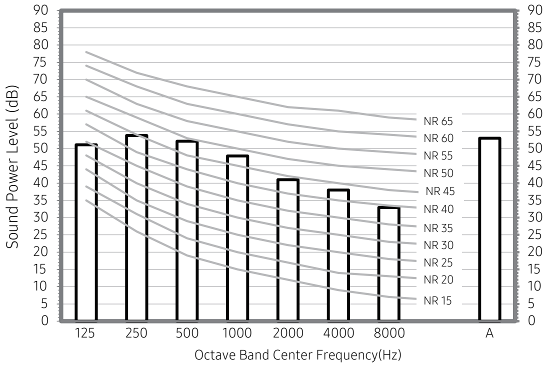
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

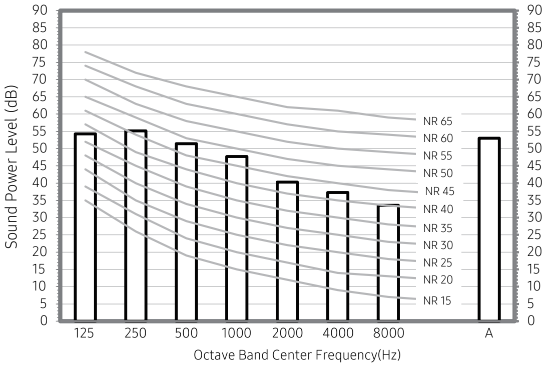
Model	Power
AC026MNLDKH/EU	53
AC035MNLDKH/EU	53
AC052MNLDKH/EU	55
AC071MNLDKH/EU	59

- NR Curve

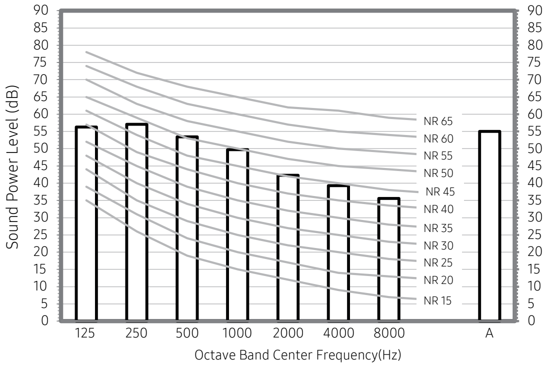
1) AC026MNLDKH/EU



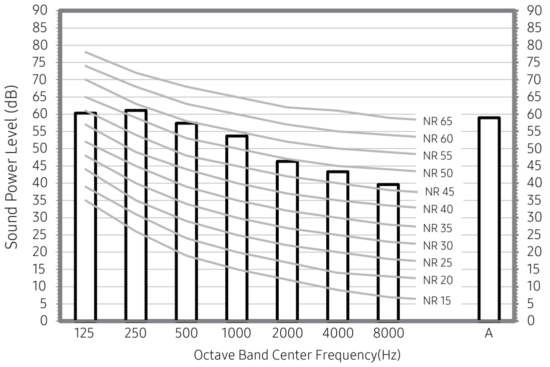
2) AC035MNLDKH/EU



3) AC052MNLDKH/EU



4) AC071MNLDKH/EU

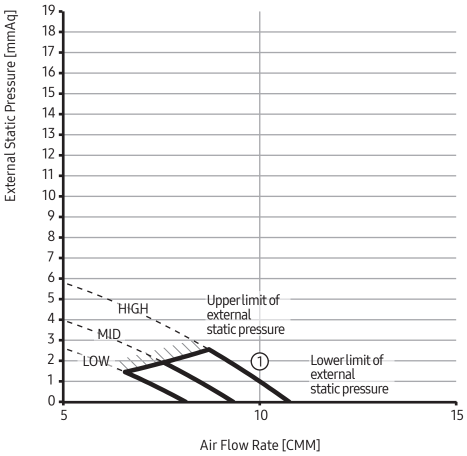


8. Fan Characteristics

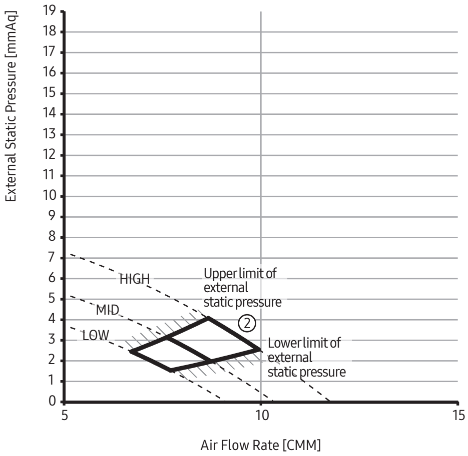
LSP Duct

1) AC026MNLDKH/EU

	External Static Pressure(mmAq)	Option Code
①	0≤ SP ≤2.5	01C07C-1C1914-271A21-370000

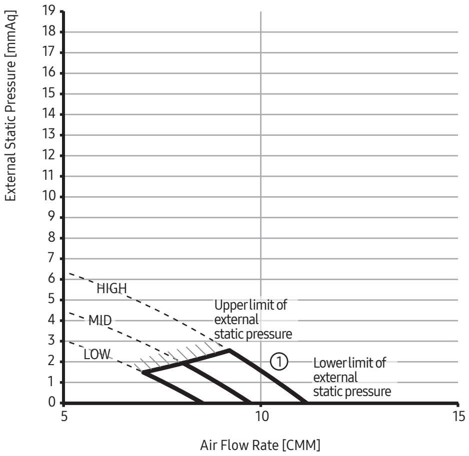


	External Static Pressure(mmAq)	Option Code
②	2.5< SP ≤4	01C07C-1C1969-271A21-370000

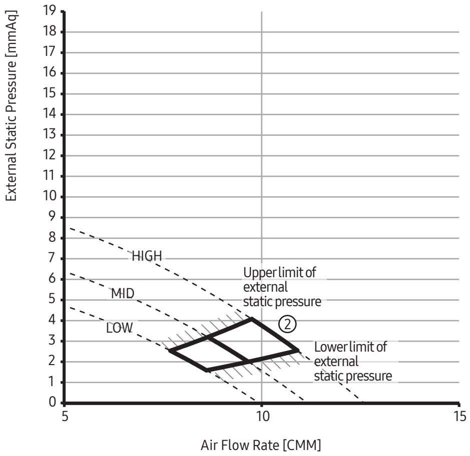


2) AC035MNLDKH/EU

	External Static Pressure(mmAq)	Option Code
①	0≤ SP ≤2.5	01C07C-1C3936-272328-370000



	External Static Pressure(mmAq)	Option Code
②	2.5< SP ≤4	01C07C-1C39AD-272328-370000

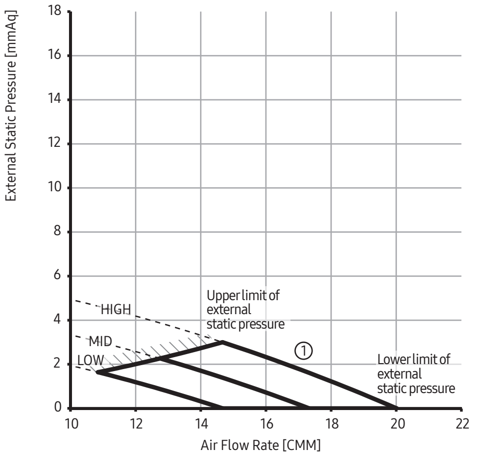


8. Fan Characteristics

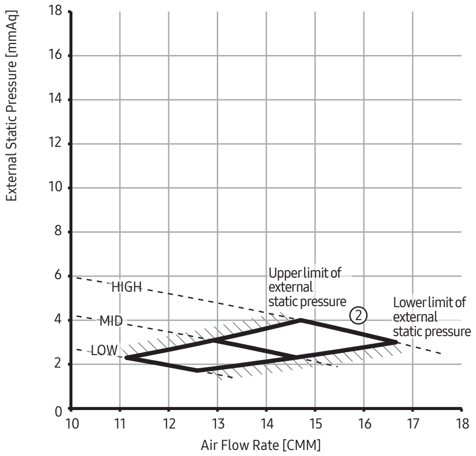
LSP Duct

3) AC052MNLDKH/EU

①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01C07C-1C1924-27343C-370000

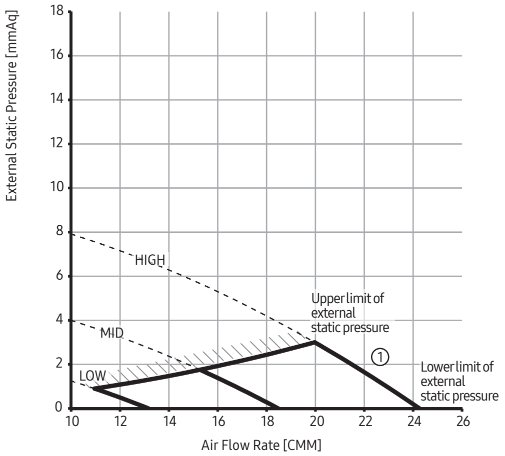


②	External Static Pressure(mmAq)	Option Code
	3 ‹ SP ≤4	01C07C-1C1968-27343C-370000

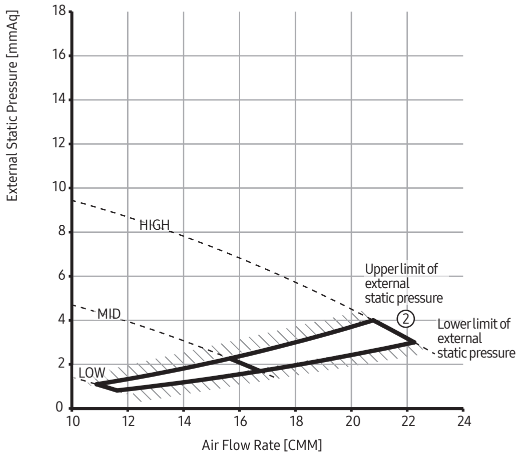


4) AC071MNLDKH/EU

①	External Static Pressure(mmAq)	Option Code
	0≤ SP ≤ 3	01C07C-1C59D0-274750-370005



②	External Static Pressure(mmAq)	Option Code
	3 ‹ SP ≤4	01C07C-1C5D21-274750-370005



NOTE

- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

MSP Duct

Features & Benefits

Duct S

Overview

Samsung Ducted Type air conditioning units are a smart solution for low-maintenance, consistent cooling and heating performance in any environment. Their compact, slim frame blends seamlessly into ceilings, enhancing the beauty of the interior space and affording users more flexible installation options. Offering a comprehensive lineup, Samsung Ducted Type air conditioning units offer just the right solution for every need--from the office or shop to the restaurant kitchen.

Experience performance and convenient comfort for any weather condition

Samsung Duct S delivers unparalleled cooling and heating and flexible management with customizable comfort settings in any climate—all year round. Plus, it boasts a slim, compact size and multiple access points for easy setup exactly where needed.

Smart pressure control

Samsung Ducted Type units feature a smart pressure control system. This system adjusts the fan speed based on the external static pressure (ESP), delivering consistent cooling and heating power, regardless of the surrounding environment.

Convenient installation

The optional lift-up drain pump lifts condensed water up to 750 mm, compared to a limit of 700 mm on conventional models, for flexible and convenient installation.

The Duct S indoor air conditioning unit delivers smooth, consistent operation and convenience with features such as:

- Efficient operation. Stage the desired atmosphere with energy-efficient performance and customized airflow.
- Smart management. Cool spaces efficiently and manage the air conditioning unit even while away, with features designed for efficiency and control.
- Easy, flexible setup. Install and maintain even multiple units with a compact and easily accessible design.

1. Specification

MSP Duct

System	Model Name	Indoor Unit			AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU
		Outdoor Unit			AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.20 / 3.50 / 3.90	1.20 / 5.00 / 6.00	1.20 / 5.80 / 7.00
				Btu/h	4,100 / 11,900 / 13,300	4,100 / 17,100 / 20,500	4,100 / 19,800 / 23,900
			Heating (Min/Std/Max)	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.50 / 7.00 / 8.50
				Btu/h	3,800 / 13,600 / 16,000	3,800 / 20,500 / 24,600	5,100 / 23,900 / 29,000
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.26 / 1.05 / 1.50	0.35 / 1.56 / 2.20	0.26 / 1.95 / 2.40
			Heating (Min/Std/Max)	kW	0.24 / 1.20 / 1.80	0.26 / 1.58 / 2.70	0.20 / 1.95 / 3.30
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 5.50 / 7.50	2.10 / 7.10 / 10.00	1.80 / 8.50 / 10.60
			Heating (Min/Std/Max)	A	1.30 / 5.80 / 10.50	1.70 / 7.20 / 12.00	1.50 / 8.50 / 14.00
		Current	MCA	A	12.5	22.5	22.5
			MFA	A	13.8	25	25
	Efficiency	EER	Cooling	W/W	3.33	3.21	2.97
		COP	Heating	W/W	3.33	3.80	3.59
		SEER (Cooling Energy Grade)		W/W	6.3 (A++)	6.2 (A++)	6.1 (A++)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.1 (A+)	4.0 (A+)
		Pdesignh		kW	1.8	2.4	2.6
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	12.7	12.7
				Φ, inch	3/8	1/2	1/2
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	20	30	30
			Elevation	m	15	20	20
			Chargeless	m	20	5	5
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO$_2$e	1.05 / 2.19	1.3 / 2.71	1.3 / 2.71

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU
		Outdoor Unit			AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	2	2
		Air Flow Rate	High/Mid/Low	CMM	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
				l/s	173.3 / 153.3 / 133.3	241.7 / 200.0 / 158.3	283.3 / 233.3 / 183.3
		External Static Pressure	Min/Std/Max	mmAq	0/2.5/15	0/3.0/15	0/3.0/15
				Pa	0/25/147	0/29/147	0/29/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	153 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	28 / 25 / 22	29 / 26 / 23	30 / 27 / 24
		Sound Power Level		dB(A)	52	55	56
	External Dimension	Net Weight		kg	25.8	25.8	25.8
		Shipping Weight		kg	30.5	30.5	30.5
		Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
		Shipping Dimensions (WxHxD)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

1. Specification

MSP Duct

Outdoor Unit	Model Name	Indoor Unit			AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU
		Outdoor Unit			AC035MXADKH/EU	AC052MXADKH/EU	AC060MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	FMC	FMC
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Al	Al
		Fin Treatment		-	Anti-Corrosion	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9TK3150FE4	UG9TK3150FE4
		Output		kW	0.83	1.42	1.42
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	320	500	500
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	30	40	40
				l/s	500	667	667
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	48	49
			Heating	dB(A)	48	48	49
		Sound Power Level		dB(A)	61	62	62
	External Dimension	Net Weight		kg	32.8	43.8	43.8
		Shipping Weight		kg	35.8	47.5	47.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	1023 x 730 x 413	1023 x 750 x 414
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

MSP Duct

System	Model Name	Indoor Unit			AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	2.20 / 7.10 / 8.00	3.00 / 9.00 / 11.30	3.00 / 9.00 / 11.30
				Btu/h	7,500 / 24,200 / 27,300	10,200 / 30,700 / 38,600	10,200 / 30,700 / 38,600
			Heating (Min/Std/Max)	kW	1.90 / 8.00 / 9.00	2.20 / 10.00 / 13.90	2.20 / 10.00 / 13.90
				Btu/h	6,500 / 27,300 / 30,700	7,500 / 34,100 / 47,400	7,500 / 34,100 / 47,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.35 / 2.15 / 3.95	0.60 / 2.90 / 4.46	0.60 / 2.90 / 4.46
			Heating (Min/Std/Max)	kW	0.35 / 2.20 / 3.95	0.46 / 2.75 / 5.20	0.46 / 2.75 / 5.20
		Current Input	Cooling (Min/Std/Max)	A	2.00 / 9.70 / 17.00	3.00 / 12.70 / 19.40	1.50 / 4.50 / 7.30
			Heating (Min/Std/Max)	A	2.00 / 11.30 / 17.00	2.50 / 12.50 / 22.70	1.40 / 4.50 / 9.00
		Current	MCA	A	22.5	26.5	18.6
			MFA	A	25	30	18.6
	Efficiency	EER	Cooling	W/W	3.30	3.10	3.10
		COP	Heating	W/W	3.64	3.64	3.64
		SEER (Cooling Energy Grade)		W/W	6.1 (A++)	5.9 (A+)	5.9 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	3.7	5.2	5.2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	9.52	9.52
				Φ, inch	1/4	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	5	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.5 / 3.13	3.0 / 6.26	3.0 / 6.26

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	3	3
		Air Flow Rate	High/Mid/Low	CMM	17.0 / 14.0 / 11.0	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0
				l/s	283.3 / 233.3 / 183.3	466.7 / 416.7 / 366.7	466.7 / 416.7 / 366.7
		External Static Pressure	Min/Std/Max	mmAq	0/3.0/15	0/4.0/15	0/4.0/15
				Pa	0/29/147	0/39/147	0/39/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	153 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	30 / 27 / 24	34 / 32 / 30	34 / 32 / 30
		Sound Power Level		dB(A)	56	58	58
	External Dimension	Net Weight		kg	25.8	33.4	33.4
		Shipping Weight		kg	30.5	39	39
		Net Dimensions (WxHxD)		mm	850 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700
		Shipping Dimensions (WxHxD)		mm	1064 x 320 x 784	1429 x 320 x 779	1429 x 320 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N /MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

1. Specification

MSP Duct

Outdoor Unit	Model Name	Indoor Unit			AC071MNMDKH/EU	AC090MNMDKH/EU	AC090MNMDKH/EU
		Outdoor Unit			AC071MXADKH/EU	AC090MXADKH/EU	AC090MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	FMC	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Al	Cu	Cu
		Fin Treatment		-	Hybrid Coating	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG4T200FUAE4	UG8T300FUBJU	UG8T300FUCJU
		Output		kW	1.79	2.82	2.82
		Oil	Type	-	POE	PVE	PVE
			Initial charge	cc	650	1200	1200
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	51	78	78
				l/s	850	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	49	52	52
			Heating	dB(A)	51	53	53
		Sound Power Level		dB(A)	65	68	68
	External Dimension	Net Weight		kg	53	72	72
		Shipping Weight		kg	57.2	77	77
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1023 x 911 x 413	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

MSP Duct

System	Model Name	Indoor Unit			AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.00 / 10.00 / 12.00	3.00 / 12.00 / 13.50
				Btu/h	10,200 / 34,100 / 40,900	10,200 / 34,100 / 40,900	10,200 / 40,900 / 46,100
			Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	2.20 / 11.20 / 15.50	2.50 / 13.00 / 17.00
				Btu/h	7,500 / 38,200 / 52,900	7,500 / 38,200 / 52,900	8,500 / 44,400 / 58,000
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.50 / 4.70	0.60 / 3.50 / 4.70	0.90 / 4.40 / 5.50
			Heating (Min/Std/Max)	kW	0.46 / 3.30 / 5.40	0.46 / 3.30 / 5.40	0.70 / 4.00 / 5.90
		Current Input	Cooling (Min/Std/Max)	A	3.00 / 15.10 / 20.40	1.50 / 5.30 / 7.10	5.00 / 19.50 / 24.00
			Heating (Min/Std/Max)	A	2.50 / 14.00 / 23.00	1.20 / 4.90 / 8.40	4.00 / 17.50 / 26.50
		Current	MCA	A	26.5	18.6	26.5
			MFA	A	30	18.6	30
	Efficiency	EER	Cooling	W/W	2.86	2.86	2.73
		COP	Heating	W/W	3.39	3.39	3.25
		SEER (Cooling Energy Grade)		W/W	5.8 (A+)	5.8 (A+)	5.6 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	4.0 (A+)
		Pdesignh		kW	5.2	5.2	7.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	3	3	3
		Air Flow Rate	High/Mid/Low	CMM	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
				l/s	466.7 / 416.7 / 366.7	466.7 / 416.7 / 366.7	550.0 / 466.7 / 383.3
		External Static Pressure	Min/Std/Max	mmAq	0/4.0/15	0/4.0/15	0/5.2/15
				Pa	0/39/147	0/39/147	0/51/147
	Fan Motor	Output		W x n	153 x 1	153 x 1	244 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	34 / 32 / 30	34 / 32 / 30	37 / 34 / 30
		Sound Power Level		dB(A)	58	58	62
	External Dimension	Net Weight		kg	33.4	33.4	38.6
		Shipping Weight		kg	39	39	44.8
		Net Dimensions (WxHxD)		mm	1200 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700
		Shipping Dimensions (WxHxD)		mm	1429 x 320 x 779	1429 x 320 x 779	1529 x 370 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

1. Specification

MSP Duct

Outdoor Unit	Model Name	Indoor Unit			AC100MNMDKH/EU	AC100MNMDKH/EU	AC120MNMDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG8T300FUBJU	UG8T300FUCJU	UG5TK1450FJX
		Output		kW	2.82	2.82	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1200	1200	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	78	78
				l/s	1300	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
			Heating	dB(A)	54	54	56
		Sound Power Level		dB(A)	69	69	70
	External Dimension	Net Weight		kg	72	72	77
		Shipping Weight		kg	77	77	82
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

MSP Duct

System	Model Name	Indoor Unit			AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 12.00 / 13.50	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50
				Btu/h	10,200 / 40,900 / 46,100	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900
			Heating (Min/Std/Max)	kW	2.50 / 13.00 / 17.00	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00
				Btu/h	8,500 / 44,400 / 58,000	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.90 / 4.40 / 5.50	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90
			Heating (Min/Std/Max)	kW	0.70 / 4.00 / 5.90	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	1.90 / 7.00 / 8.60	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00
			Heating (Min/Std/Max)	A	1.50 / 6.30 / 9.00	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00
		Current	MCA	A	18.6	34.5	18.6
			MFA	A	18.6	40	18.6
	Efficiency	EER	Cooling	W/W	2.73	3.01	3.01
		COP	Heating	W/W	3.25	3.41	3.41
		SEER (Cooling Energy Grade)		W/W	5.6 (A+)	3.0	3.0
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	3.4	3.4
		Pdesignh		kW	7.4	-	-
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	75	75
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.4 / 7.10	3.4 / 7.10

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	3	3	3
		Air Flow Rate	High/Mid/Low	CMM	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
				l/s	550.0 / 466.7 / 383.3	550.0 / 466.7 / 383.3	550.0 / 466.7 / 383.3
		External Static Pressure	Min/Std/Max	mmAq	0/5.2/15	0/5.2/15	0/5.2/15
				Pa	0/51/147	0/51/147	0/51/147
	Fan Motor	Output		W x n	244 x 1	244 x 1	244 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	37 / 34 / 30	37 / 34 / 30	37 / 34 / 30
		Sound Power Level		dB(A)	62	62	62
	External Dimension	Net Weight		kg	38.6	38.6	38.6
		Shipping Weight		kg	44.8	44.8	44.8
		Net Dimensions (WxHxD)		mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
		Shipping Dimensions (WxHxD)		mm	1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24	750/24
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-

1. Specification

MSP Duct

Outdoor Unit	Model Name	Indoor Unit			AC120MNMDKH/EU	AC140MNMDKH/EU	AC140MNMDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG5TK1450FJX	UG5TK1450FJX	UG5TK1450FJX
		Output		kW	4.19	4.19	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1700	1700	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	2	2
		Air Flow Rate		CMM	78	111	111
				l/s	1300	1850	1850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
			Heating	dB(A)	56	54	54
		Sound Power Level		dB(A)	70	69	69
	External Dimension	Net Weight		kg	77	87	87
		Shipping Weight		kg	82	97	97
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1388 x 426	995 x 1388 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC035MNMDKH/EU	25.8	Max.	3.9	4.7	High	10.4 / 10.4	28	52
		Std.	3.5	4.0	Mid	9.2 / 9.2	25	-
		Min.	1.2	1.1	Low	8.0 / 8.0	22	-
AC052MNMDKH/EU	25.8	Max.	6.0	7.2	High	14.5 / 14.5	29	55
		Std.	5.0	6.0	Mid	12.0 / 12.0	26	-
		Min.	1.2	1.1	Low	9.5 / 9.5	23	-
AC060MNMDKH/EU	25.8	Max.	7.0	8.5	High	17.0 / 17.0	30	56
		Std.	5.8	7.0	Mid	14.0 / 14.0	27	-
		Min.	1.2	1.5	Low	11.0 / 11.0	24	-
AC071MNMDKH/EU	25.8	Max.	8.0	9.0	High	17.0 / 17.0	30	56
		Std.	7.1	8.0	Mid	14.0 / 14.0	27	-
		Min.	2.2	1.9	Low	11.0 / 11.0	24	-
AC090MNMDKH/EU	33.4	Max.	11.3	13.9	High	28.0 / 28.0	34	58
		Std.	9.0	10.0	Mid	25.0 / 25.0	32	-
		Min.	3.0	2.2	Low	22.0 / 22.0	30	-
AC100MNMDKH/EU	33.4	Max.	12.0	15.5	High	28.0 / 28.0	34	58
		Std.	10.0	11.2	Mid	25.0 / 25.0	32	-
		Min.	3.0	2.2	Low	22.0 / 22.0	30	-
AC120MNMDKH/EU	38.6	Max.	13.5	17.0	High	33.0 / 33.0	37	62
		Std.	12.0	13.0	Mid	28.0 / 28.0	34	-
		Min.	3.0	2.5	Low	23.0 / 23.0	30	-
AC140MNMDKH/EU	38.6	Max.	15.5	18.0	High	33.0 / 33.0	37	62
		Std.	13.4	15.5	Mid	28.0 / 28.0	34	-
		Min.	3.5	3.5	Low	23.0 / 23.0	30	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC035MNMDKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	2.5	12.5	12.5	13.8
AC052MNMDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC060MNMDKH/EU	AC060MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC071MNMDKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	2.5	22.5	22.5	25
AC090MNMDKH/EU	AC090MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC090MNMDKH/EU	AC090MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC100MNMDKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC100MNMDKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC120MNMDKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	2.5	26.5	26.5	30
AC120MNMDKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC140MNMDKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	2.5	34.5	34.5	40
AC140MNMDKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

MSP Duct

(1) AC035MNMDKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.82	0.75	3.59	2.90	0.77	3.74	2.99	0.78	3.86	3.09	0.80	3.94	3.06	0.81	4.13	3.03	0.81	4.34	2.97	0.83
21	3.25	2.68	0.79	3.42	2.77	0.81	3.56	2.85	0.82	3.68	2.94	0.84	3.75	2.91	0.85	3.94	2.88	0.86	4.13	2.82	0.87
35	3.10	2.56	0.99	3.26	2.63	1.01	3.40	2.72	1.03	3.50	2.80	1.05	3.57	2.77	1.06	3.75	2.74	1.07	3.94	2.69	1.09
46	2.63	2.37	0.89	2.77	2.44	0.91	2.89	2.52	0.93	2.98	2.60	0.95	3.03	2.57	0.95	3.19	2.55	0.96	3.35	2.50	0.98
50	2.01	1.87	0.79	2.12	1.93	0.81	2.21	1.99	0.82	2.28	2.05	0.84	2.32	2.03	0.85	2.44	2.01	0.86	2.56	1.97	0.87

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	1.59	2.79	1.58	2.76	1.56	2.73	1.54	2.71	1.53	2.68	1.51
-15	3.55	1.84	3.51	1.82	3.48	1.80	3.45	1.78	3.41	1.76	3.38	1.75
-5	4.00	1.71	3.96	1.70	3.92	1.68	3.88	1.66	3.84	1.65	3.80	1.63
0	4.16	1.47	4.12	1.45	4.08	1.44	4.04	1.43	4.00	1.41	3.96	1.40
7	4.08	1.22	4.04	1.21	4.00	1.20	3.96	1.19	3.92	1.18	3.88	1.16
24	5.30	1.41	5.25	1.39	5.20	1.38	5.15	1.37	5.10	1.35	5.05	1.34

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(2) AC052MNMDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	4.02	1.12	5.13	4.15	1.14	5.35	4.28	1.16	5.51	4.41	1.19	5.62	4.37	1.20	5.90	4.32	1.21	6.20	4.24	1.23
21	4.64	3.83	1.17	4.89	3.95	1.20	5.09	4.07	1.22	5.25	4.20	1.25	5.36	4.16	1.26	5.62	4.12	1.27	5.90	4.03	1.30
35	4.42	3.65	1.47	4.66	3.76	1.50	4.85	3.88	1.53	5.00	4.00	1.56	5.10	3.96	1.58	5.36	3.92	1.59	5.62	3.84	1.62
46	3.76	3.39	1.32	3.96	3.49	1.35	4.12	3.60	1.38	4.25	3.71	1.40	4.34	3.67	1.42	4.55	3.64	1.43	4.78	3.57	1.46
50	2.88	2.67	1.17	3.03	2.75	1.20	3.15	2.84	1.22	3.25	2.93	1.25	3.32	2.90	1.26	3.48	2.87	1.27	3.65	2.81	1.30

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	2.10	4.18	2.07	4.14	2.05	4.10	2.03	4.06	2.01	4.02	1.99
-15	5.32	2.42	5.27	2.39	5.22	2.37	5.17	2.35	5.12	2.32	5.06	2.30
-5	6.00	2.26	5.94	2.23	5.88	2.21	5.82	2.19	5.76	2.17	5.71	2.15
0	6.24	1.93	6.18	1.91	6.12	1.90	6.06	1.88	6.00	1.86	5.94	1.84
7	6.12	1.61	6.06	1.60	6.00	1.58	5.94	1.56	5.88	1.55	5.82	1.53
24	7.96	1.85	7.88	1.84	7.80	1.82	7.72	1.80	7.64	1.78	7.57	1.76

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(3) AC060MNMDKH/EU + AC060MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.66	4.38	1.39	5.95	4.51	1.42	6.20	4.65	1.45	6.39	4.80	1.48	6.52	4.75	1.50	6.85	4.70	1.51	7.19	4.61	1.54
21	5.39	4.17	1.47	5.67	4.30	1.50	5.91	4.43	1.53	6.09	4.57	1.56	6.21	4.52	1.58	6.52	4.48	1.59	6.85	4.39	1.62
35	5.13	3.97	1.84	5.40	4.09	1.87	5.63	4.22	1.91	5.80	4.35	1.95	5.92	4.31	1.97	6.21	4.26	1.99	6.52	4.18	2.03
46	4.36	3.80	1.65	4.59	3.92	1.69	4.78	4.04	1.72	4.93	4.17	1.76	5.03	4.13	1.77	5.28	4.08	1.79	5.54	4.00	1.83
50	3.34	3.03	1.47	3.51	3.12	1.50	3.66	3.22	1.53	3.77	3.32	1.56	3.85	3.28	1.58	4.04	3.25	1.59	4.24	3.19	1.62

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.93	2.59	4.88	2.56	4.83	2.54	4.78	2.51	4.73	2.48	4.69	2.46
-15	6.21	2.98	6.15	2.95	6.09	2.93	6.03	2.90	5.97	2.87	5.91	2.84
-5	7.00	2.78	6.93	2.76	6.86	2.73	6.79	2.70	6.72	2.68	6.66	2.65
0	7.28	2.39	7.21	2.36	7.14	2.34	7.07	2.32	7.00	2.29	6.93	2.27
7	7.14	1.99	7.07	1.97	7.00	1.95	6.93	1.93	6.86	1.91	6.79	1.89
24	9.28	2.29	9.19	2.26	9.10	2.24	9.01	2.22	8.92	2.20	8.83	2.18

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(4) AC071MNMDKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	5.36	1.54	7.29	5.52	1.57	7.59	5.69	1.60	7.83	5.87	1.63	7.98	5.81	1.65	8.38	5.75	1.67	8.80	5.64	1.70
21	6.59	5.10	1.62	6.94	5.26	1.65	7.23	5.42	1.69	7.46	5.59	1.72	7.60	5.54	1.74	7.98	5.48	1.75	8.38	5.37	1.79
35	6.28	4.86	2.02	6.61	5.01	2.06	6.89	5.17	2.11	7.10	5.33	2.15	7.24	5.27	2.17	7.60	5.22	2.19	7.98	5.11	2.24
46	5.34	4.45	1.82	5.62	4.59	1.86	5.85	4.73	1.90	6.04	4.88	1.94	6.16	4.83	1.95	6.46	4.78	1.97	6.79	4.69	2.01
50	4.08	3.50	1.62	4.30	3.60	1.65	4.48	3.72	1.69	4.62	3.83	1.72	4.71	3.79	1.74	4.94	3.75	1.75	5.19	3.68	1.79

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	2.92	5.58	2.89	5.52	2.86	5.46	2.83	5.41	2.80	5.36	2.78
-15	7.10	3.37	7.03	3.33	6.96	3.30	6.89	3.27	6.82	3.23	6.75	3.20
-5	8.00	3.14	7.92	3.11	7.84	3.08	7.76	3.05	7.68	3.02	7.61	2.99
0	8.32	2.69	8.24	2.67	8.16	2.64	8.08	2.61	8.00	2.59	7.92	2.56
7	8.16	2.24	8.08	2.22	8.00	2.20	7.92	2.18	7.84	2.16	7.76	2.13
24	10.61	2.58	10.50	2.56	10.40	2.53	10.30	2.50	10.19	2.48	10.09	2.45

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(5) AC090MNMDKH/EU + AC090MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.24	2.07	9.24	7.47	2.12	9.62	7.70	2.16	9.92	7.94	2.20	10.12	7.86	2.23	10.63	7.78	2.25	11.16	7.62	2.29
21	8.36	6.90	2.18	8.80	7.11	2.23	9.17	7.33	2.27	9.45	7.56	2.32	9.64	7.48	2.34	10.12	7.41	2.37	10.63	7.26	2.41
35	7.96	6.57	2.73	8.38	6.77	2.79	8.73	6.98	2.84	9.00	7.20	2.90	9.18	7.13	2.93	9.64	7.06	2.96	10.12	6.92	3.02
46	6.77	6.20	2.46	7.12	6.39	2.51	7.42	6.59	2.56	7.65	6.79	2.61	7.80	6.73	2.64	8.19	6.66	2.66	8.60	6.52	2.72
50	5.18	4.91	2.18	5.45	5.06	2.23	5.67	5.22	2.27	5.85	5.38	2.32	5.97	5.33	2.34	6.27	5.27	2.37	6.58	5.17	2.41

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.65	6.97	3.61	6.90	3.58	6.83	3.54	6.76	3.50	6.70	3.47
-15	8.87	4.21	8.79	4.17	8.70	4.13	8.61	4.08	8.53	4.04	8.44	4.00
-5	10.00	3.93	9.90	3.89	9.80	3.85	9.70	3.81	9.60	3.77	9.51	3.74
0	10.41	3.37	10.30	3.33	10.20	3.30	10.10	3.27	10.00	3.23	9.90	3.20
7	10.20	2.81	10.10	2.78	10.00	2.75	9.90	2.72	9.80	2.70	9.70	2.67
24	13.26	3.23	13.13	3.19	13.00	3.16	12.87	3.13	12.74	3.10	12.61	3.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(6) AC090MNMDKH/EU + AC090MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	8.78	7.24	2.07	9.24	7.47	2.12	9.62	7.70	2.16	9.92	7.94	2.20	10.12	7.86	2.23	10.63	7.78	2.25	11.16	7.62	2.29
21	8.36	6.90	2.18	8.80	7.11	2.23	9.17	7.33	2.27	9.45	7.56	2.32	9.64	7.48	2.34	10.12	7.41	2.37	10.63	7.26	2.41
35	7.96	6.57	2.73	8.38	6.77	2.79	8.73	6.98	2.84	9.00	7.20	2.90	9.18	7.13	2.93	9.64	7.06	2.96	10.12	6.92	3.02
46	6.77	6.20	2.46	7.12	6.39	2.51	7.42	6.59	2.56	7.65	6.79	2.61	7.80	6.73	2.64	8.19	6.66	2.66	8.60	6.52	2.72
50	5.18	4.91	2.18	5.45	5.06	2.23	5.67	5.22	2.27	5.85	5.38	2.32	5.97	5.33	2.34	6.27	5.27	2.37	6.58	5.17	2.41

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.04	3.65	6.97	3.61	6.90	3.58	6.83	3.54	6.76	3.50	6.70	3.47
-15	8.87	4.21	8.79	4.17	8.70	4.13	8.61	4.08	8.53	4.04	8.44	4.00
-5	10.00	3.93	9.90	3.89	9.80	3.85	9.70	3.81	9.60	3.77	9.51	3.74
0	10.41	3.37	10.30	3.33	10.20	3.30	10.10	3.27	10.00	3.23	9.90	3.20
7	10.20	2.81	10.10	2.78	10.00	2.75	9.90	2.72	9.80	2.70	9.70	2.67
24	13.26	3.23	13.13	3.19	13.00	3.16	12.87	3.13	12.74	3.10	12.61	3.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(7) AC100MNMDKH/EU + AC100MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.95	2.50	10.27	8.20	2.55	10.69	8.45	2.61	11.03	8.71	2.66	11.25	8.62	2.69	11.81	8.54	2.71	12.40	8.37	2.77
21	9.29	7.57	2.64	9.78	7.80	2.69	10.19	8.05	2.74	10.50	8.30	2.80	10.71	8.21	2.83	11.25	8.13	2.86	11.81	7.97	2.91
35	8.85	7.21	3.29	9.31	7.43	3.36	9.70	7.66	3.43	10.00	7.90	3.50	10.20	7.82	3.54	10.71	7.74	3.57	11.25	7.59	3.64
46	7.52	6.98	2.96	7.92	7.20	3.03	8.25	7.42	3.09	8.50	7.65	3.15	8.67	7.57	3.18	9.10	7.50	3.21	9.56	7.35	3.28
50	5.75	5.58	2.64	6.05	5.75	2.69	6.31	5.93	2.74	6.50	6.11	2.80	6.63	6.05	2.83	6.96	5.99	2.86	7.31	5.87	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.38	7.81	4.33	7.73	4.29	7.65	4.25	7.57	4.20	7.50	4.16
-15	9.94	5.05	9.84	5.00	9.74	4.95	9.65	4.90	9.55	4.85	9.45	4.80
-5	11.20	4.71	11.09	4.67	10.98	4.62	10.87	4.57	10.76	4.53	10.65	4.48
0	11.65	4.04	11.54	4.00	11.42	3.96	11.31	3.92	11.20	3.88	11.08	3.84
7	11.43	3.37	11.31	3.33	11.20	3.30	11.09	3.27	10.98	3.23	10.87	3.20
24	14.85	3.87	14.71	3.83	14.56	3.80	14.41	3.76	14.27	3.72	14.13	3.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(8) AC100MNMDKH/EU + AC100MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.95	2.50	10.27	8.20	2.55	10.69	8.45	2.61	11.03	8.71	2.66	11.25	8.62	2.69	11.81	8.54	2.71	12.40	8.37	2.77
21	9.29	7.57	2.64	9.78	7.80	2.69	10.19	8.05	2.74	10.50	8.30	2.80	10.71	8.21	2.83	11.25	8.13	2.86	11.81	7.97	2.91
35	8.85	7.21	3.29	9.31	7.43	3.36	9.70	7.66	3.43	10.00	7.90	3.50	10.20	7.82	3.54	10.71	7.74	3.57	11.25	7.59	3.64
46	7.52	6.98	2.96	7.92	7.20	3.03	8.25	7.42	3.09	8.50	7.65	3.15	8.67	7.57	3.18	9.10	7.50	3.21	9.56	7.35	3.28
50	5.75	5.58	2.64	6.05	5.75	2.69	6.31	5.93	2.74	6.50	6.11	2.80	6.63	6.05	2.83	6.96	5.99	2.86	7.31	5.87	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.38	7.81	4.33	7.73	4.29	7.65	4.25	7.57	4.20	7.50	4.16
-15	9.94	5.05	9.84	5.00	9.74	4.95	9.65	4.90	9.55	4.85	9.45	4.80
-5	11.20	4.71	11.09	4.67	10.98	4.62	10.87	4.57	10.76	4.53	10.65	4.48
0	11.65	4.04	11.54	4.00	11.42	3.96	11.31	3.92	11.20	3.88	11.08	3.84
7	11.43	3.37	11.31	3.33	11.20	3.30	11.09	3.27	10.98	3.23	10.87	3.20
24	14.85	3.87	14.71	3.83	14.56	3.80	14.41	3.76	14.27	3.72	14.13	3.68

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(9) AC120MNMDKH/EU + AC120MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	9.18	3.15	12.32	9.46	3.21	12.83	9.75	3.28	13.23	10.05	3.34	13.49	9.95	3.38	14.17	9.85	3.41	14.88	9.66	3.48
21	11.15	8.74	3.31	11.73	9.01	3.38	12.22	9.29	3.45	12.60	9.58	3.52	12.85	9.48	3.56	13.49	9.39	3.59	14.17	9.20	3.66
35	10.62	8.32	4.14	11.17	8.58	4.23	11.64	8.85	4.31	12.00	9.12	4.40	12.24	9.03	4.44	12.85	8.94	4.49	13.49	8.76	4.58
46	9.02	8.30	3.73	9.50	8.56	3.80	9.89	8.83	3.88	10.20	9.10	3.96	10.40	9.01	4.00	10.92	8.92	4.04	11.47	8.74	4.12
50	6.90	6.69	3.31	7.26	6.90	3.38	7.57	7.11	3.45	7.80	7.33	3.52	7.96	7.26	3.56	8.35	7.19	3.59	8.77	7.04	3.66

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(10) AC120MNMDKH/EU + AC120MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	8.81	3.15	12.32	9.09	3.21	12.83	9.37	3.28	13.23	9.66	3.34	13.49	9.56	3.38	14.17	9.47	3.41	14.88	9.28	3.48
21	11.15	8.39	3.31	11.73	8.65	3.38	12.22	8.92	3.45	12.60	9.20	3.52	12.85	9.11	3.56	13.49	9.01	3.59	14.17	8.83	3.66
35	10.62	8.00	4.14	11.17	8.24	4.23	11.64	8.50	4.31	12.00	8.76	4.40	12.24	8.67	4.44	12.85	8.59	4.49	13.49	8.41	4.58
46	9.02	7.82	3.73	9.50	8.06	3.80	9.89	8.31	3.88	10.20	8.57	3.96	10.40	8.48	4.00	10.92	8.40	4.04	11.47	8.23	4.12
50	6.90	6.26	3.31	7.26	6.46	3.38	7.57	6.66	3.45	7.80	6.86	3.52	7.96	6.80	3.56	8.35	6.73	3.59	8.77	6.59	3.66

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.30	9.06	5.25	8.97	5.20	8.88	5.15	8.79	5.10	8.70	5.05
-15	11.54	6.12	11.42	6.06	11.31	6.00	11.20	5.94	11.08	5.88	10.97	5.82
-5	13.00	5.71	12.87	5.66	12.74	5.60	12.61	5.54	12.49	5.49	12.36	5.43
0	13.53	4.90	13.39	4.85	13.26	4.80	13.13	4.75	13.00	4.70	12.87	4.66
7	13.26	4.08	13.13	4.04	13.00	4.00	12.87	3.96	12.74	3.92	12.61	3.88
24	17.24	4.69	17.07	4.65	16.90	4.60	16.73	4.55	16.56	4.51	16.40	4.46

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(11) AC140MNMDKH/EU + AC140MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

MSP Duct

(12) AC140MNMDKH/EU + AC140MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

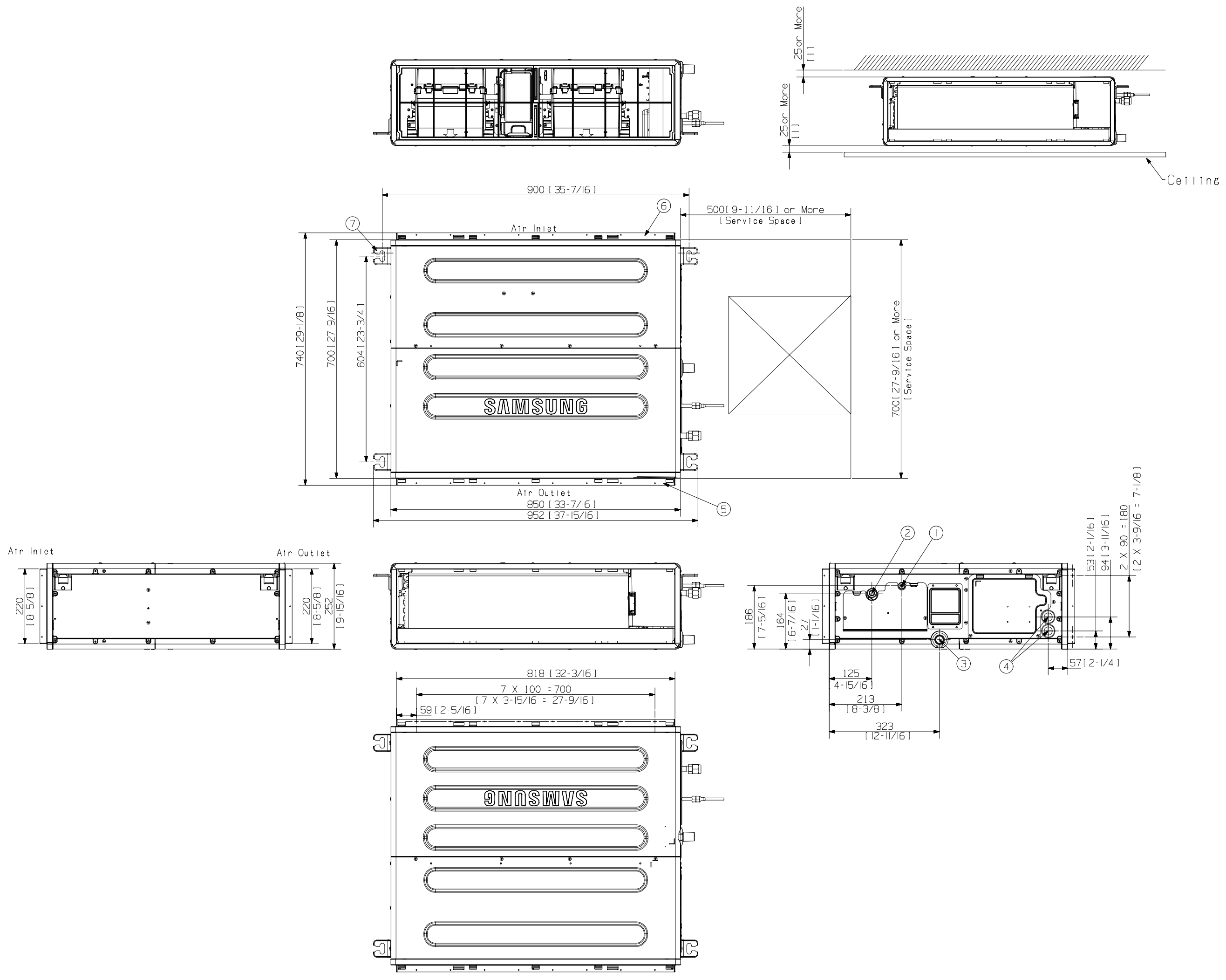
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

MSP Duct

AC035/052/060/071MNMDKH/EU

Units : mm [inches]



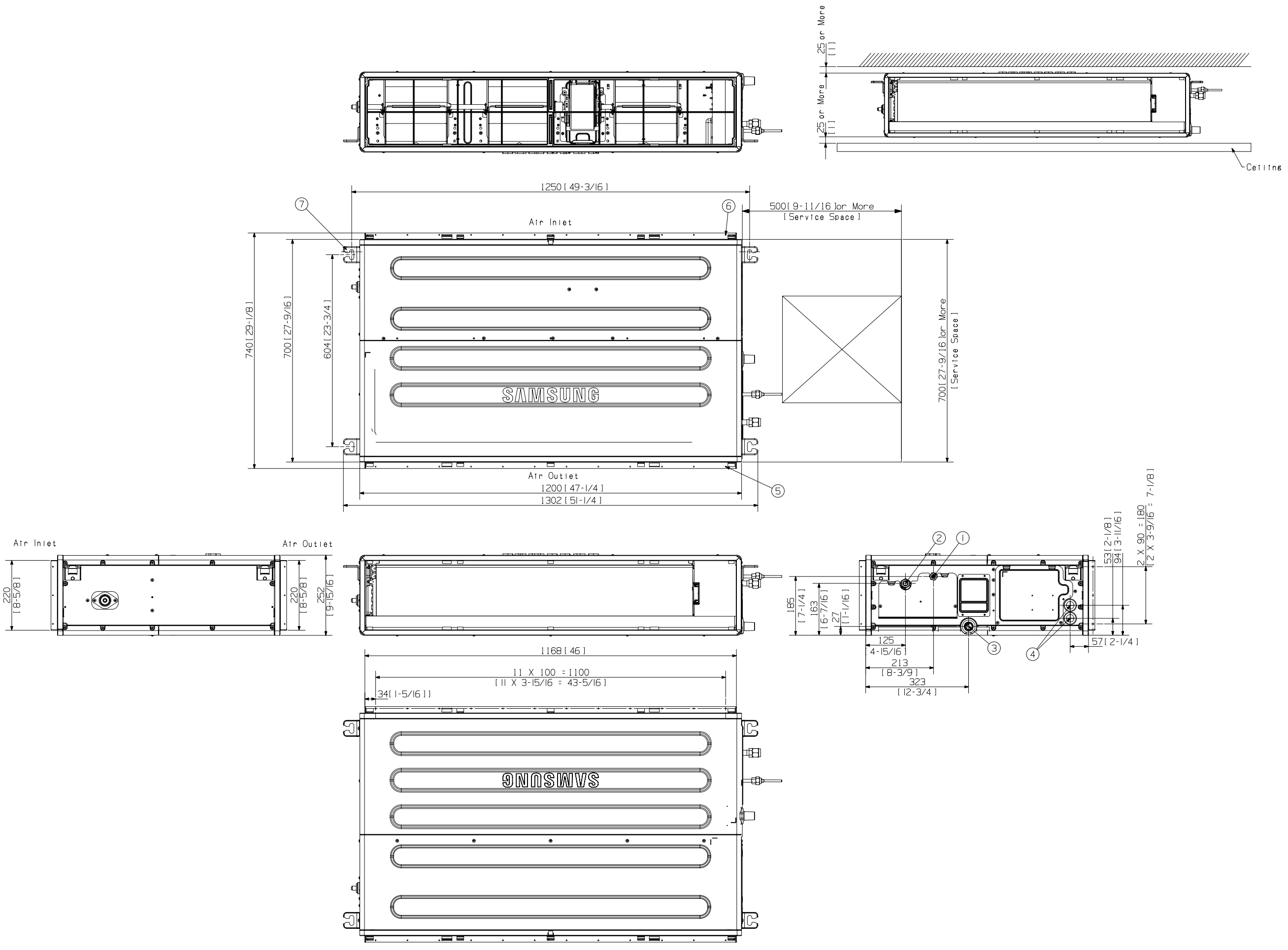
No.	Name	Description		
		AC035MNMDKH/EU	AC052MNMDKH/EU	AC060MNMDKH/EU AC071MNMDKH/EU
1	Liquid pipe connection	Φ6.35(1/4)		
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)		
4	Power supply & Communication wiring conduit			
5	Air suction flange			
6	Air discharge flange			
7	Hook	Use M8~M10 bolt(4ea)		

4. Dimensional Drawing

MSP Duct

AC090/100MNMDKH/EU

Units : mm [inches]



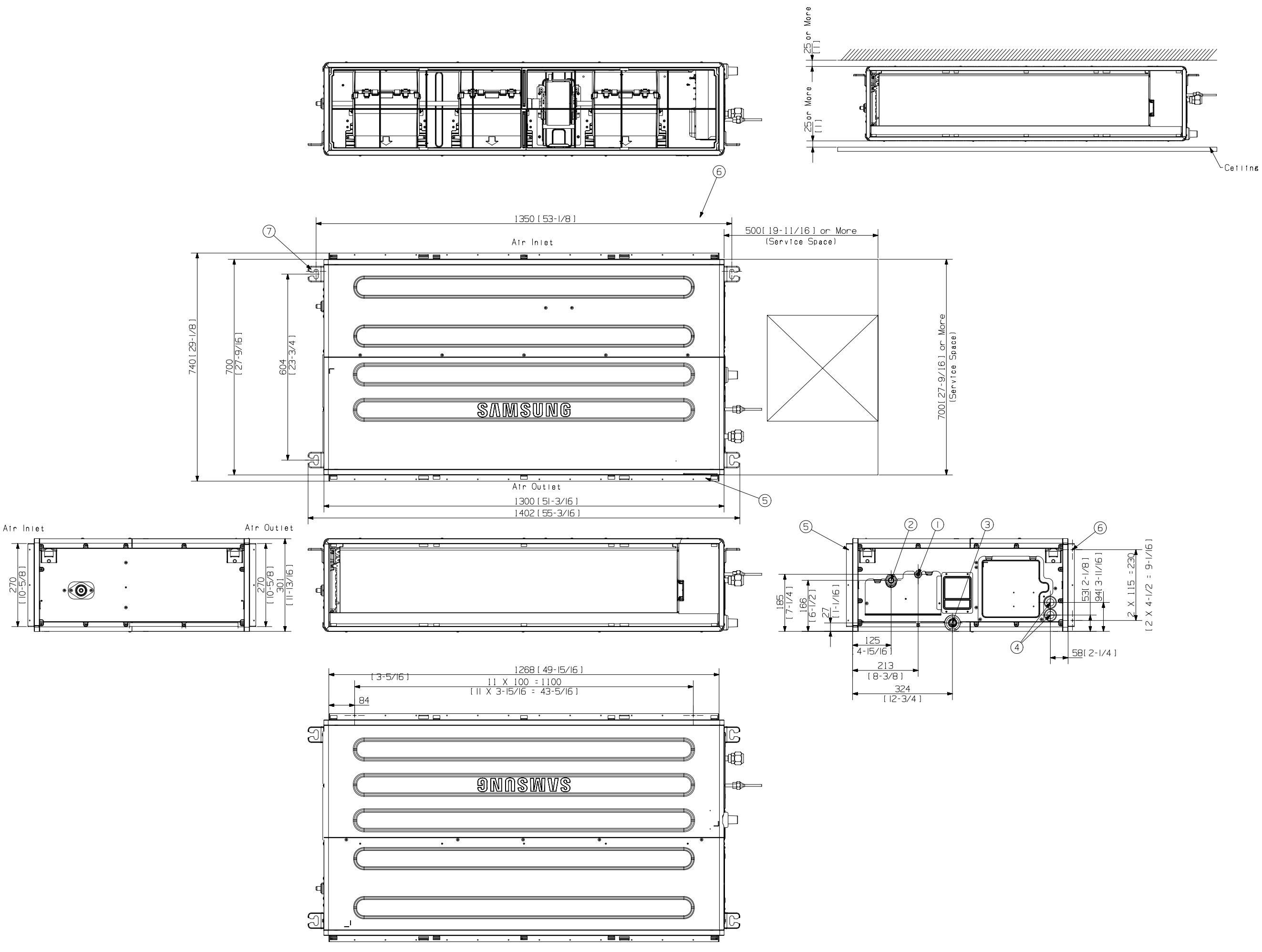
No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8~M10 bolt(4ea)

4. Dimensional Drawing

MSP Duct

AC120/140MNMDKH/EU

Units : mm [inches]

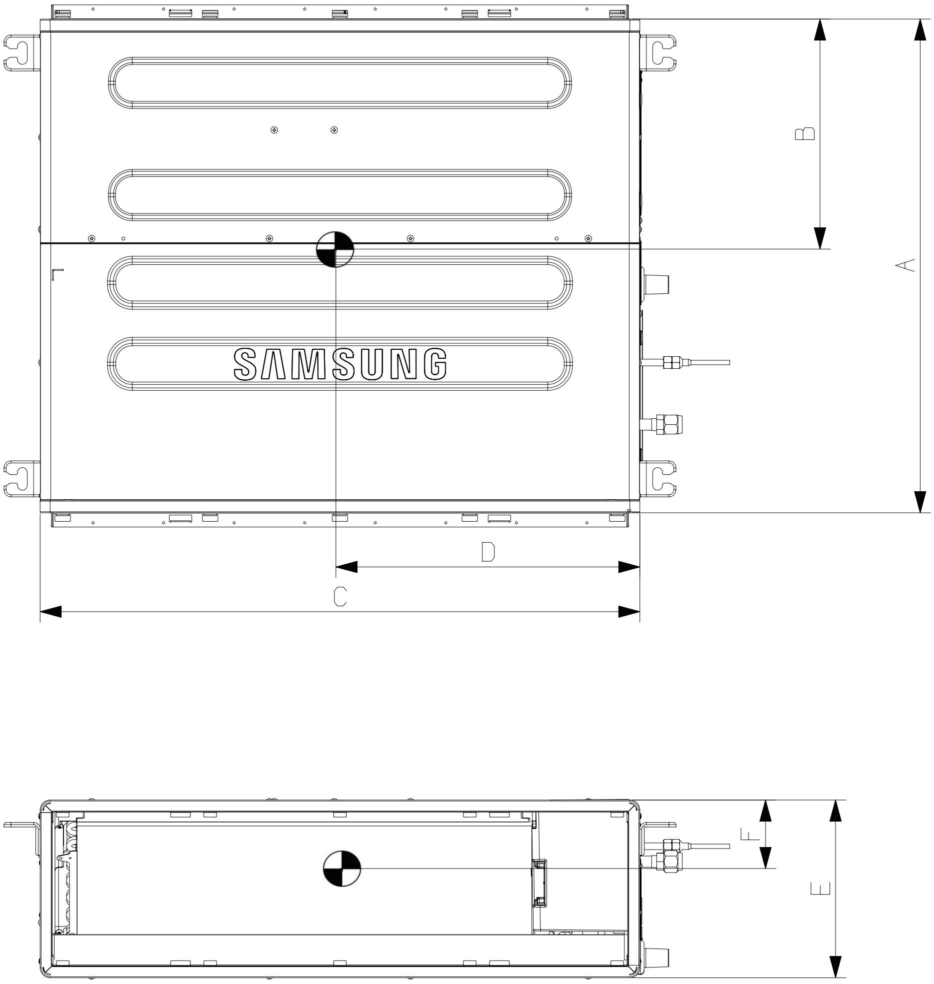


No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8~M10 bolt(4ea)

5. Center of Gravity

MSP Duct

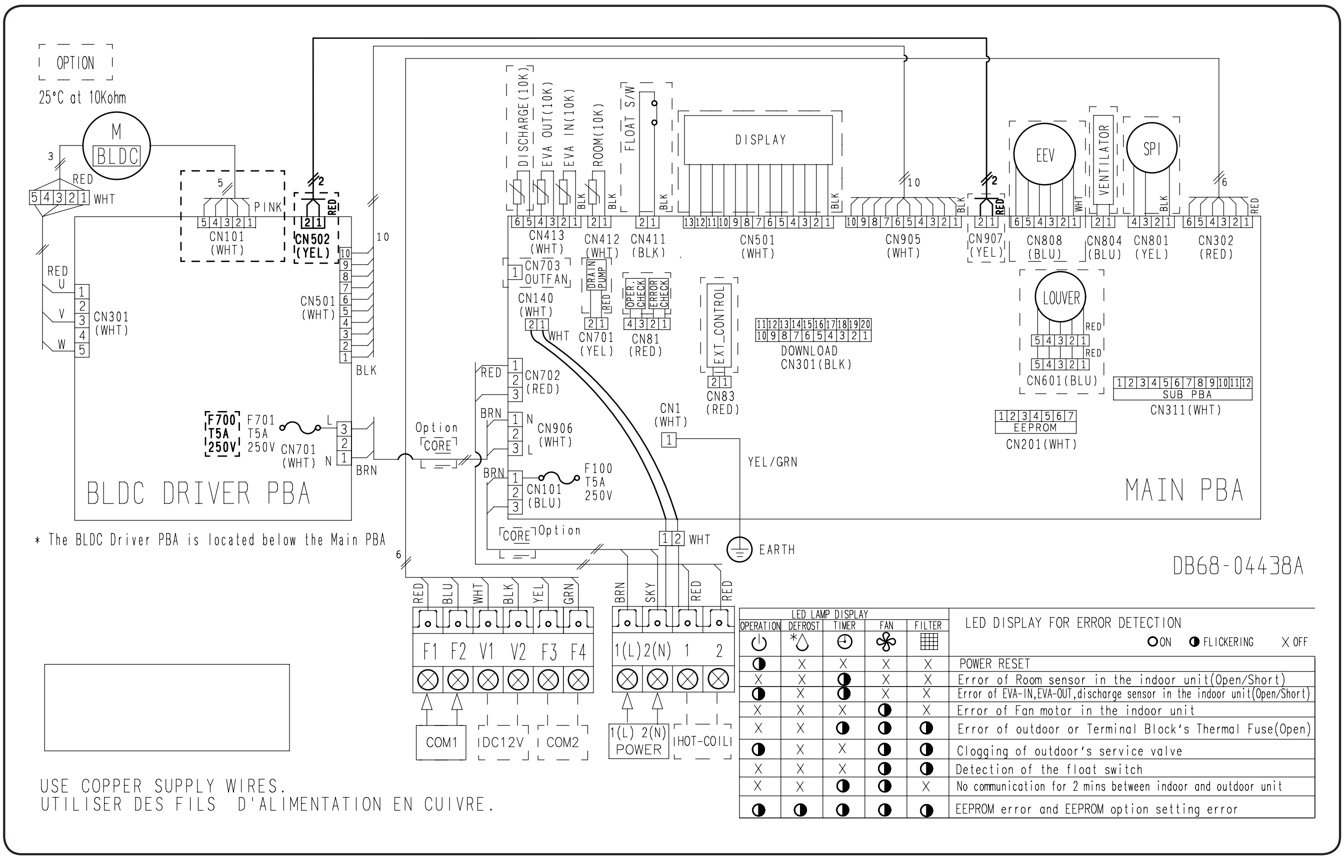
Units : mm [inches]



	A	B	C	D	E	F
~7.1kW	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	252 [9-15/16]	125 [4-15/16]
9.0kW ~ 10kW	700 [27-9/16]	265 [10-7/16]	1250 [49-3/16]	565 [18-5/16]	252 [9-15/16]	125 [4-15/16]
12kW ~ 14kW	700 [27-9/16]	265 [10-7/16]	1350 [53-1/8]	650 [25-5/8]	301 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram

MSP Duct



LED DISPLAY FOR ERROR DETECTION

○ ON ◐ FLICKERING X OFF

LED LAMP DISPLAY					
OPERATION	DEFROST	TIMER	FAN	FILTER	
◐	X	X	X	X	POWER RESET
X	X	◐	X	X	Error of Room sensor in the indoor unit(Open/Short)
◐	X	◐	X	X	Error of EVA-IN,EVA-OUT,discharge sensor in the indoor unit(Open/Short)
X	X	X	◐	X	Error of Fan motor in the indoor unit
X	X	◐	◐	◐	Error of outdoor or Terminal Block's Thermal Fuse(Open)
◐	X	X	◐	◐	Clogging of outdoor's service valve
X	X	X	◐	◐	Detection of the float switch
X	X	◐	◐	X	No communication for 2 mins between indoor and outdoor unit
◐	◐	◐	◐	◐	EEPROM error and EEPROM option setting error

MAIN PBA	Printed Circuit Board(MAIN)	**SPI**	S-Plasma ion	**ROOM(10K)**	Thermistor ROOM OUT(10K)
BLDC DRIVER PBA	Printed Circuit Board(BLDC DRIVER)	**EEV**	Electronic Expansion Valve	**EVA-IN(10K)**	Thermistor EVA IN(10K)
SUB PBA	Printed Circuit Board(SUB)	**EXT_CONTROL**	EXTERNAL_CONTROL	**EVA-OUT(10K)**	Thermistor EVA OUT(10K)
M-BLDC	BLDC Motor			**DISCHARGE(10K)**	Thermistor DISCHARGE(10K)

NOTE

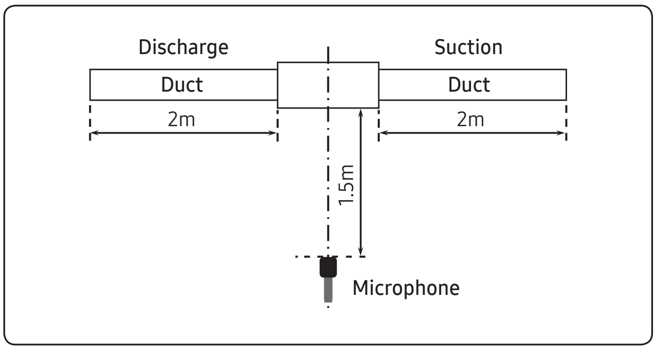
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭ : connector, ⁄N : The wire quantity

7. Sound Data

MSP Duct

Sound Pressure level

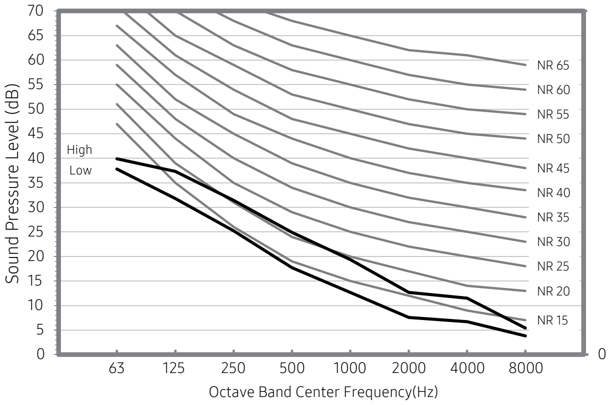
Unit: dB(A)



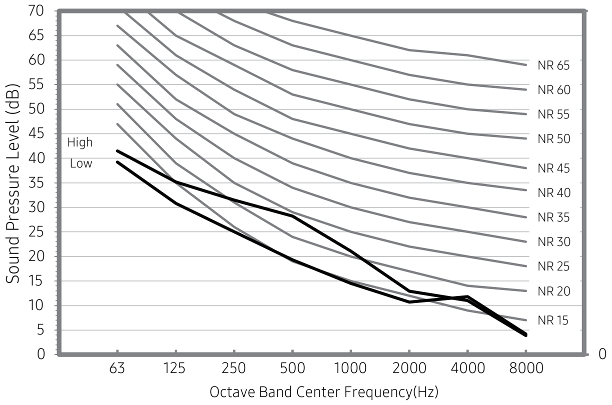
Model	Hi	MID	LOW
AC035MNMDKH/EU	28	25	22
AC052MNMDKH/EU	29	26	23
AC060MNMDKH/EU	30	27	24
AC071MNMDKH/EU	30	27	24

- NR Curve

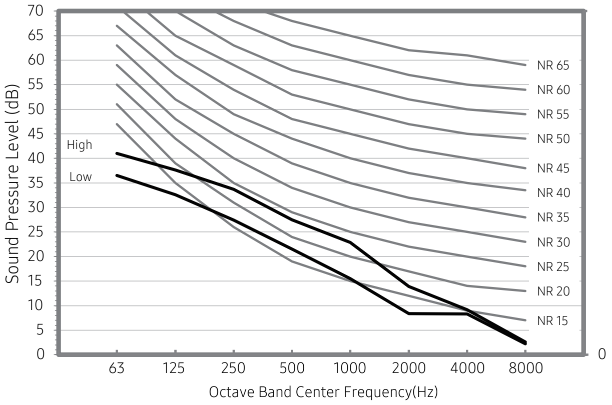
1) AC035MNMDKH/EU



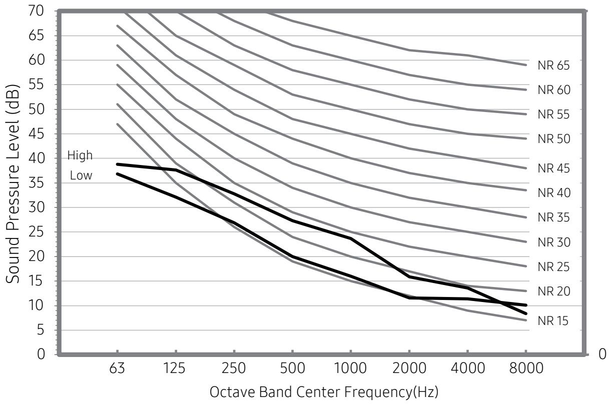
2) AC052MNMDKH/EU



3) AC060MNMDKH/EU



4) AC071MNMDKH/EU

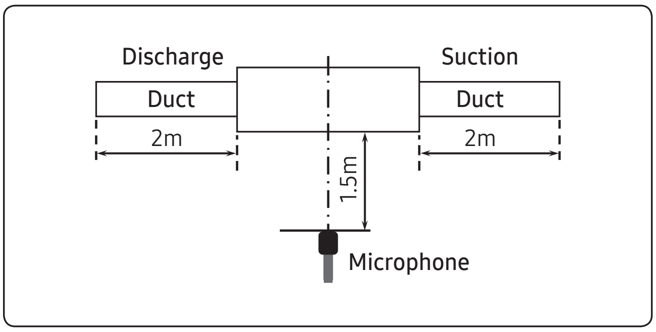


7. Sound Data

MSP Duct

Sound Pressure level

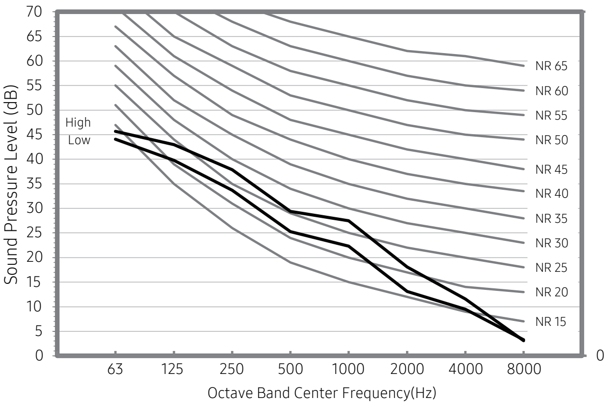
Unit: dB(A)



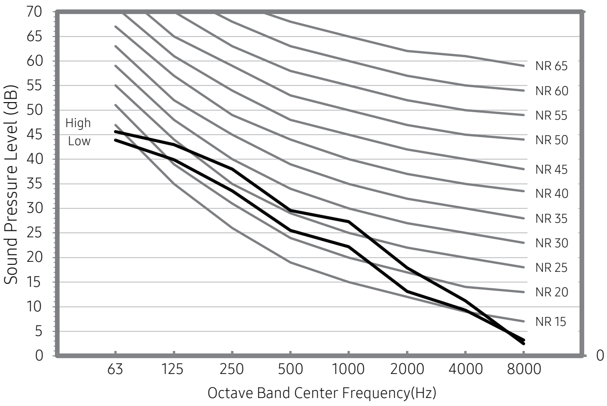
Model	Hi	MID	LOW
AC090MNMDKH/EU	34	32	30
AC100MNMDKH/EU	34	32	30
AC120MNMDKH/EU	37	34	30
AC140MNMDKH/EU	37	34	30

- NR Curve

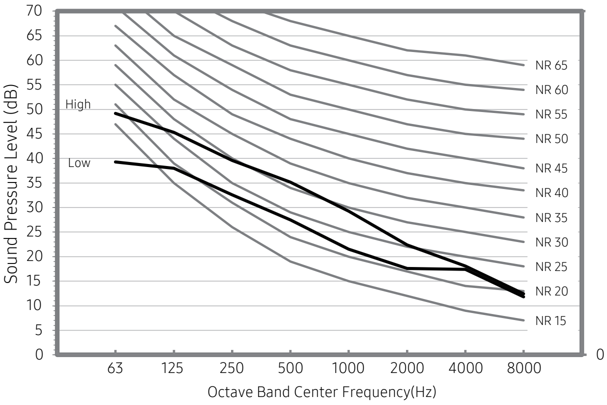
5) AC090MNMDKH/EU



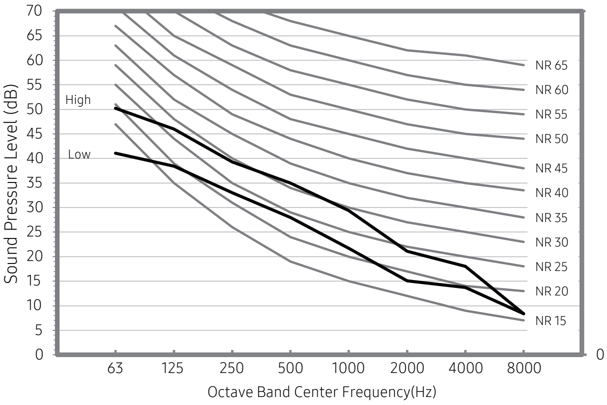
6) AC100MNMDKH/EU



7) AC120MNMDKH/EU



8) AC140MNMDKH/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

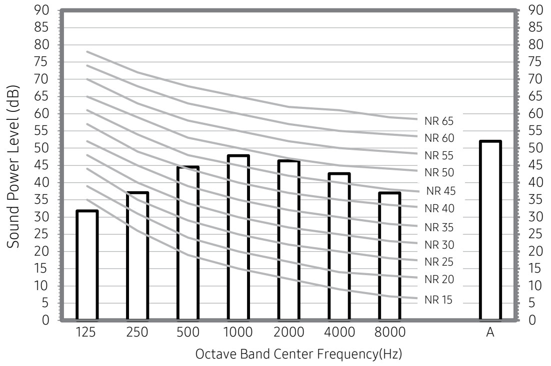
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

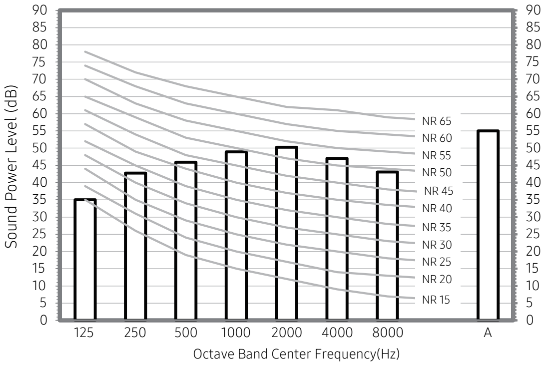
Model	Power
AC035MNMDKH/EU	52
AC052MNMDKH/EU	55
AC060MNMDKH/EU	56
AC071MNMDKH/EU	56

- NR Curve

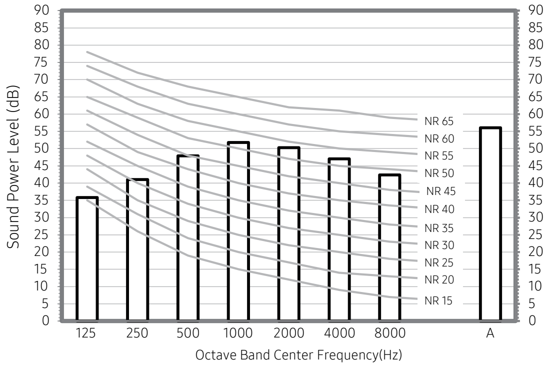
1) AC035MNMDKH/EU



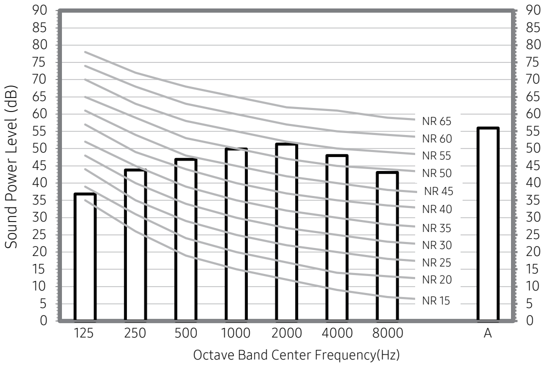
2) AC052MNMDKH/EU



3) AC060MNMDKH/EU



4) AC071MNMDKH/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

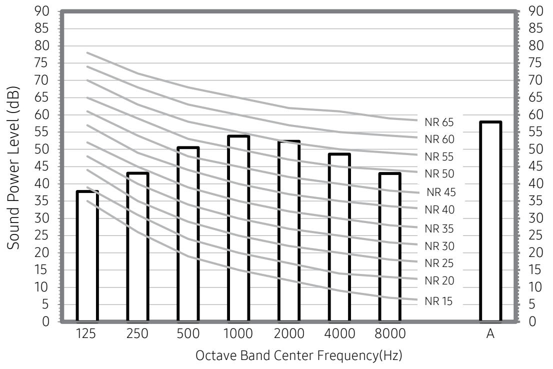
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

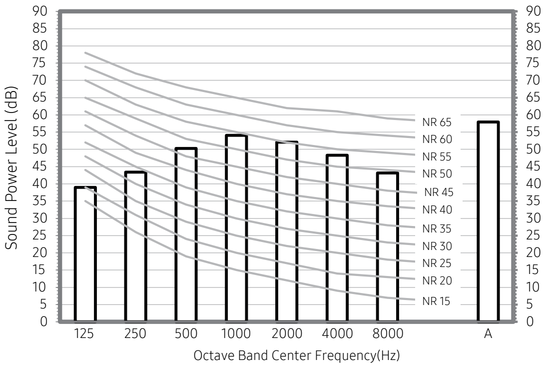
Model	Power
AC090MNMDKH/EU	58
AC100MNMDKH/EU	58
AC120MNMDKH/EU	62
AC140MNMDKH/EU	62

- NR Curve

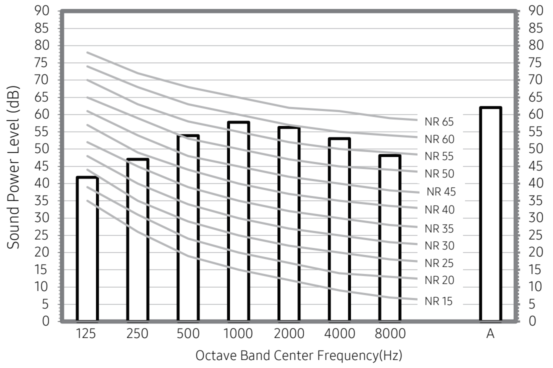
1) AC090MNMDKH/EU



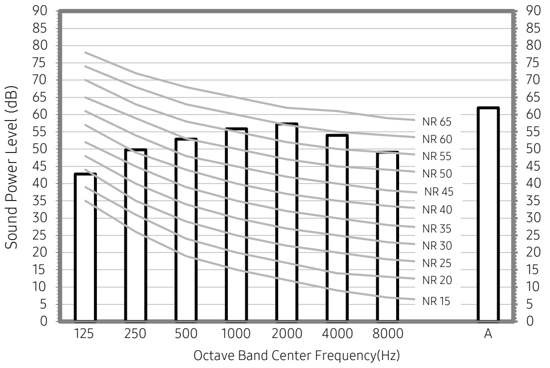
2) AC100MNMDKH/EU



3) AC120MNMDKH/EU



4) AC140MNMDKH/EU

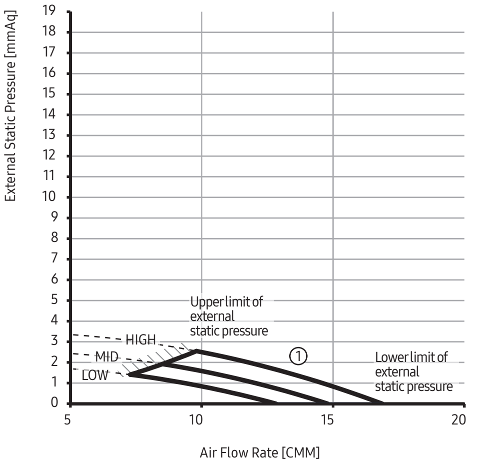


8. Fan Characteristics

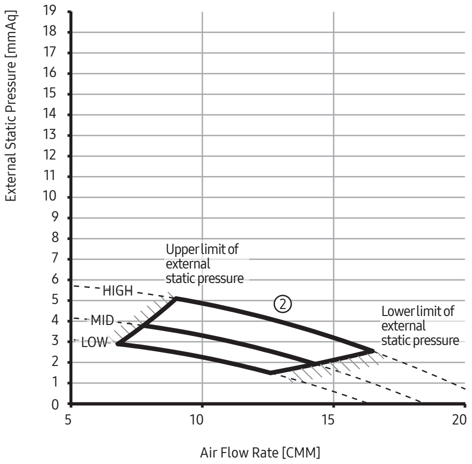
MSP Duct

1) AC035MNMDKH/EU

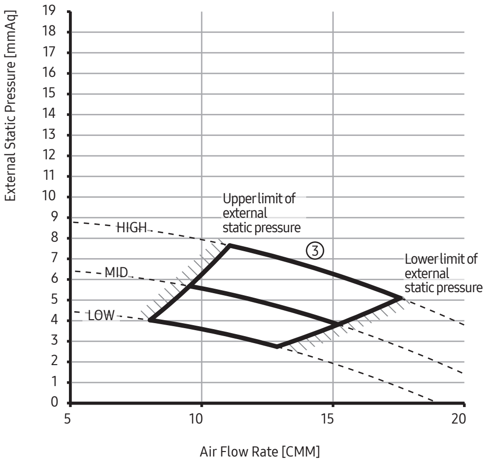
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5	01B07C-1C5080-272328-372000



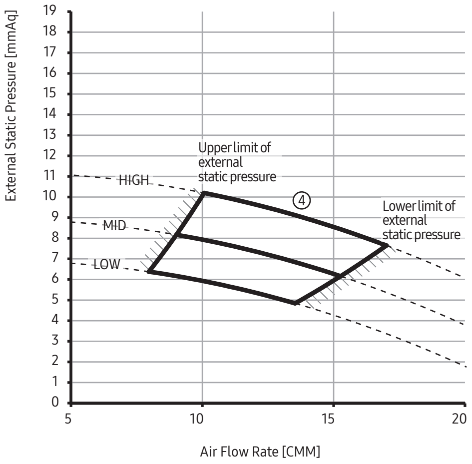
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	01B07C-1C5407-272328-372000



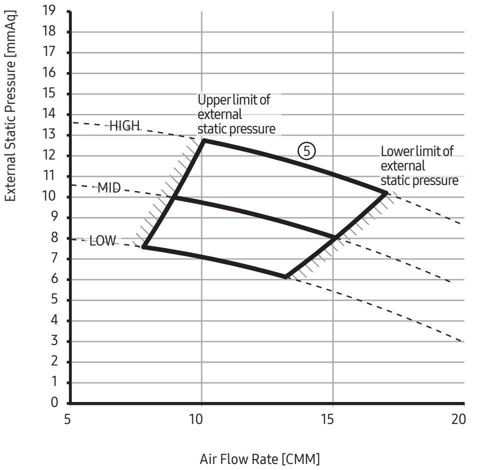
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	01B07C-1C548C-272328-372000



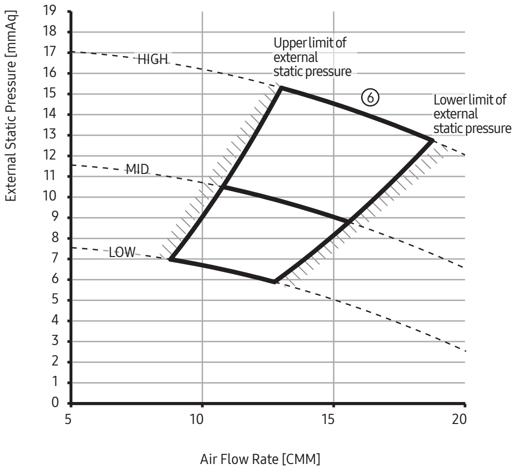
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	01B07C-1C55D3-272328-372000



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	01B07C-1C5926-272328-372000



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15	01B07C-1C5998-272328-372000

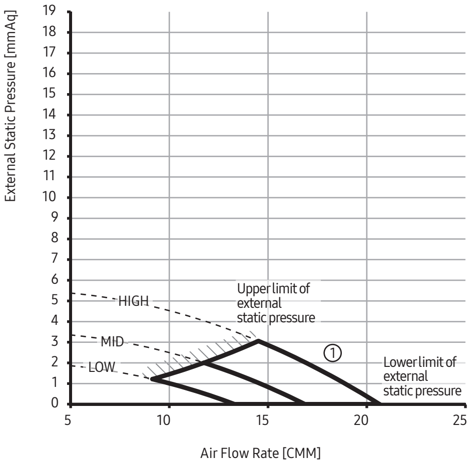


8. Fan Characteristics

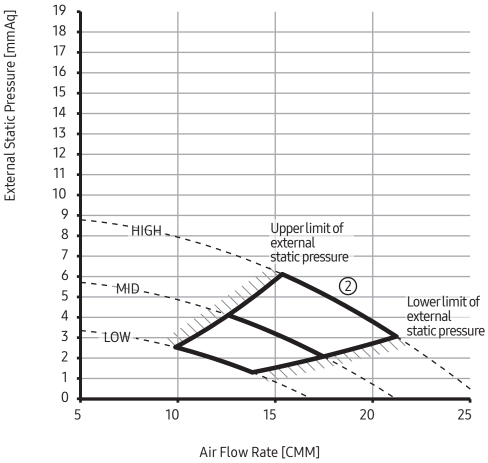
MSP Duct

2) AC052MNMDKH/EU

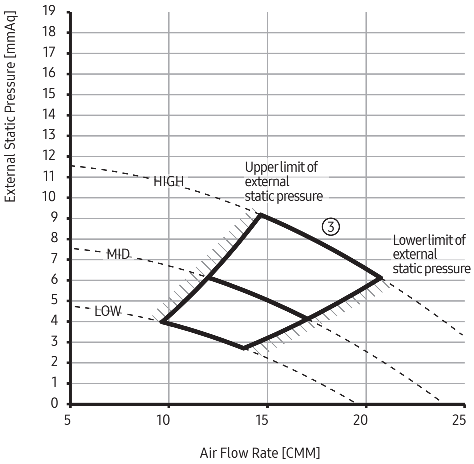
	External Static Pressure(mmAq)	Option Code
①	0≤ SP ≤3	01B07C-1C50F1-27343C-374000



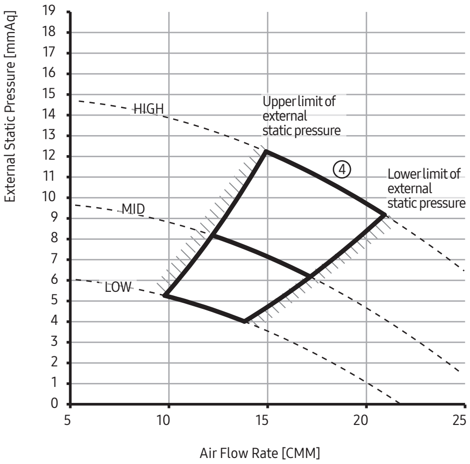
	External Static Pressure(mmAq)	Option Code
②	3< SP ≤6	01B07C-1C5488-27343C-374000



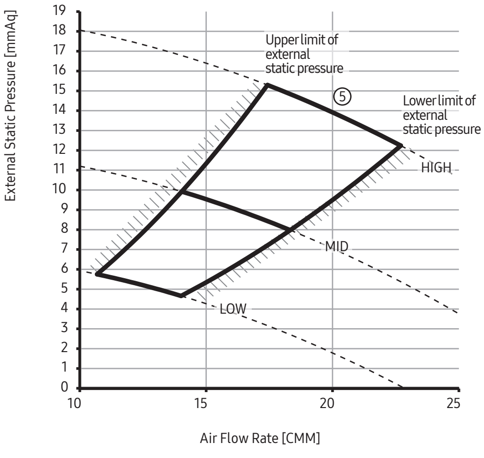
	External Static Pressure(mmAq)	Option Code
③	6< SP ≤9	01B07C-1C54ED-27343C-374000



	External Static Pressure(mmAq)	Option Code
④	9< SP ≤12	01B07C-1C5941-27343C-374000



	External Static Pressure(mmAq)	Option Code
⑤	12< SP ≤15	01B07C-1C59B3-27343C-374000

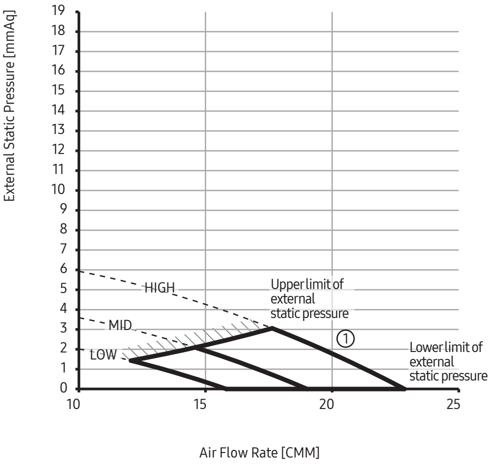


8. Fan Characteristics

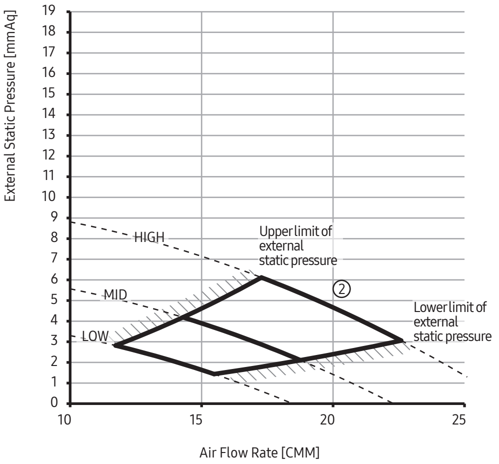
MSP Duct

3) AC060MNMDKH/EU

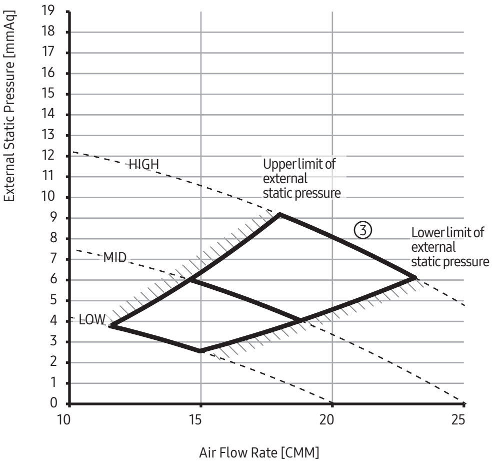
	External Static Pressure(mmAq)	Option Code
①	0≤ SP ≤3	01B07C-1C5436-273C46-376000



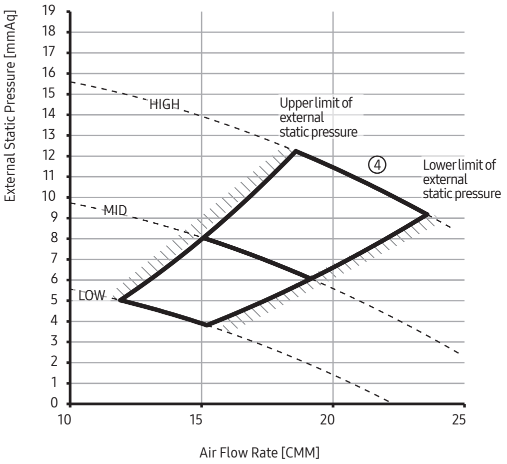
	External Static Pressure(mmAq)	Option Code
②	3< SP ≤6	01B07C-1C54AB-273C46-376000



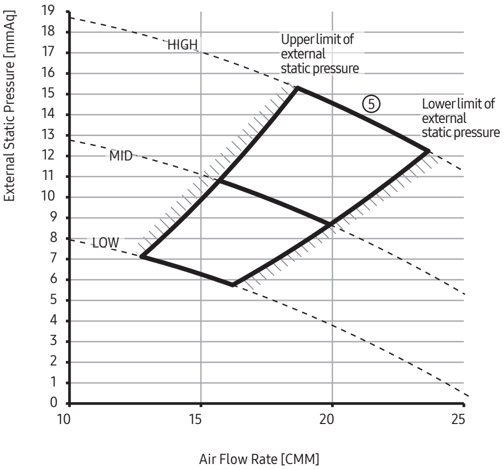
	External Static Pressure(mmAq)	Option Code
③	6< SP ≤9	01B07C-1C581E-273C46-376000



	External Static Pressure(mmAq)	Option Code
④	9< SP ≤12	01B07C-1C5972-273C46-376000



	External Static Pressure(mmAq)	Option Code
⑤	12< SP ≤15	01B07C-1C59C8-273C46-376000

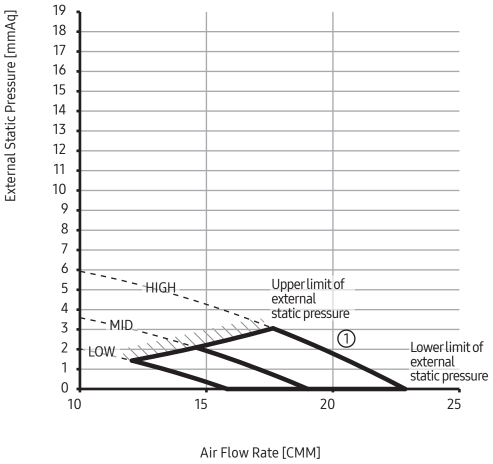


8. Fan Characteristics

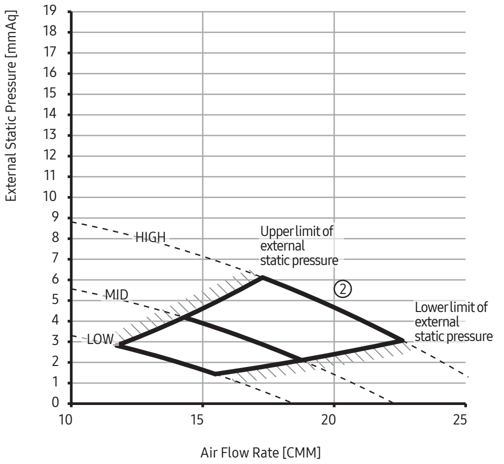
MSP Duct

4) AC071MNMDKH/EU

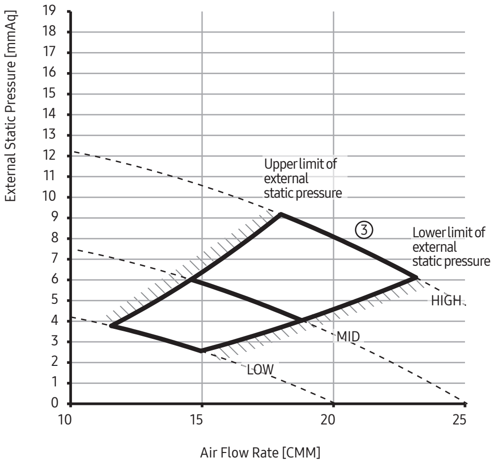
	External Static Pressure(mmAq)	Option Code
①	0≤ SP ≤3	01B07C-1C5436-274750-376000



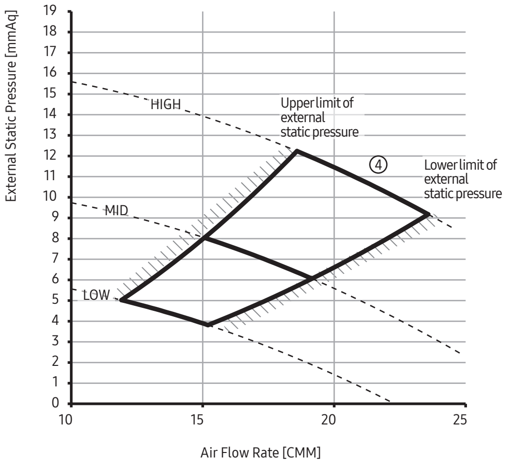
	External Static Pressure(mmAq)	Option Code
②	3< SP ≤6	01B07C-1C54AB-274750-376000



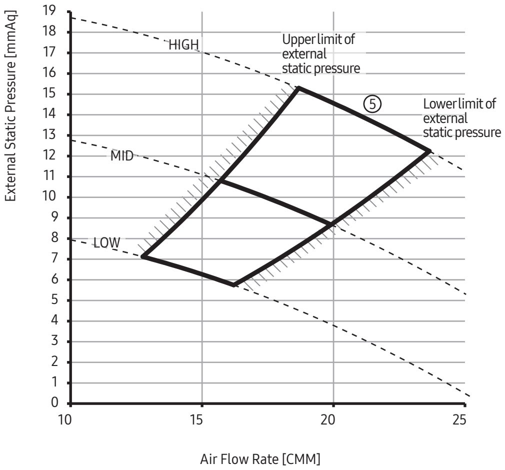
	External Static Pressure(mmAq)	Option Code
③	6< SP ≤9	01B07C-1C581E-274750-376000



	External Static Pressure(mmAq)	Option Code
④	9< SP ≤12	01B07C-1C5972-274750-376000



	External Static Pressure(mmAq)	Option Code
⑤	12< SP ≤15	01B07C-1C59C8-274750-376000

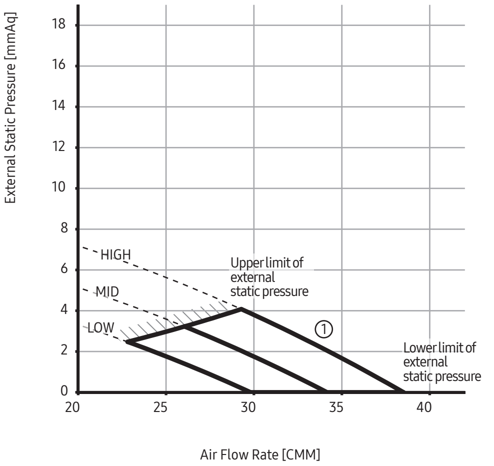


8. Fan Characteristics

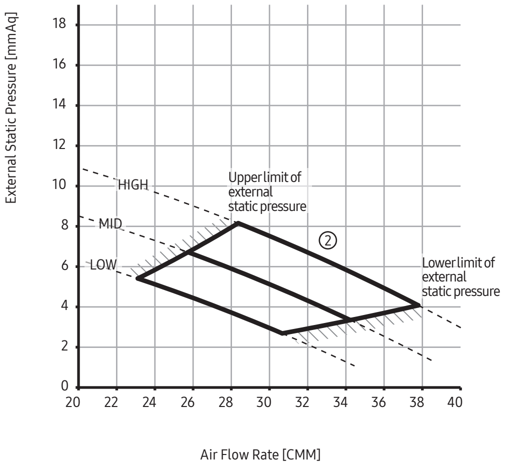
MSP Duct

5) AC090MNMDKH/EU

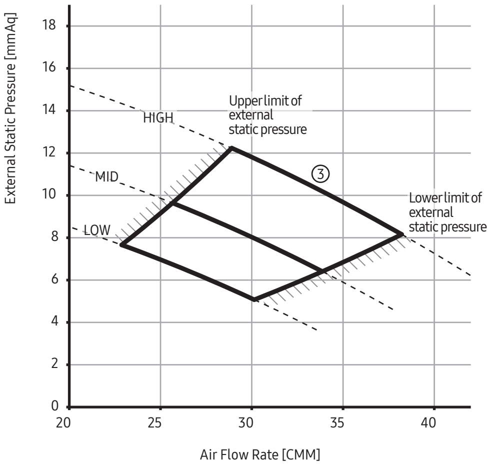
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	01B07C-1C549F-275A64-375020



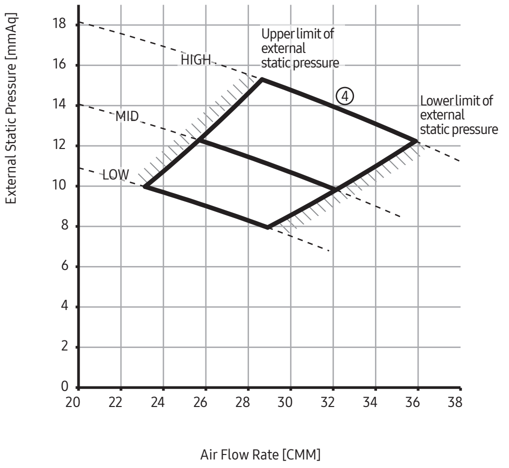
②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	01B07C-1C5917-275A64-375020



③	External Static Pressure(mmAq)	Option Code
	8 < SP ≤ 12	01B07C-1C599C-275A64-375020



④	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C5AE1-275A64-375020

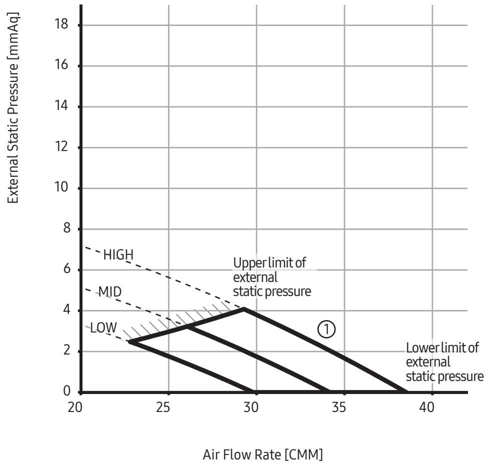


8. Fan Characteristics

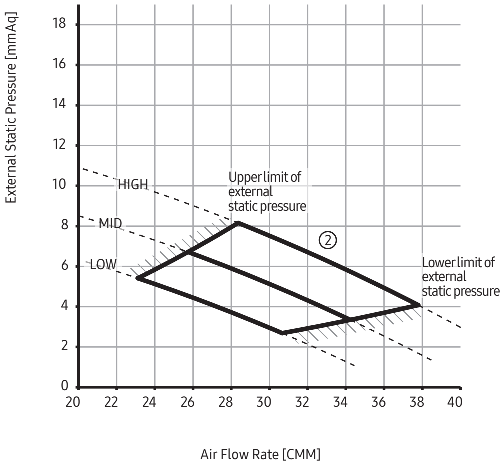
MSP Duct

6) AC100MNMDKH/EU

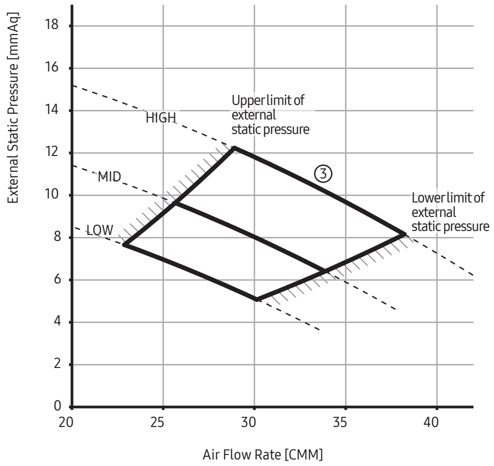
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	01B07C-1C549F-276470-375020



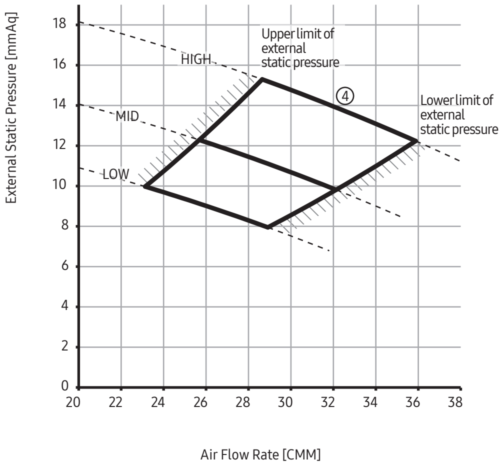
②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	01B07C-1C5917-276470-375020



③	External Static Pressure(mmAq)	Option Code
	8 < SP ≤ 12	01B07C-1C599C-276470-375020



④	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C5AE1-276470-375020

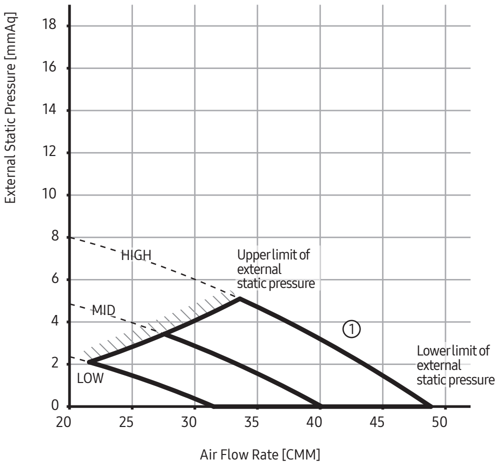


8. Fan Characteristics

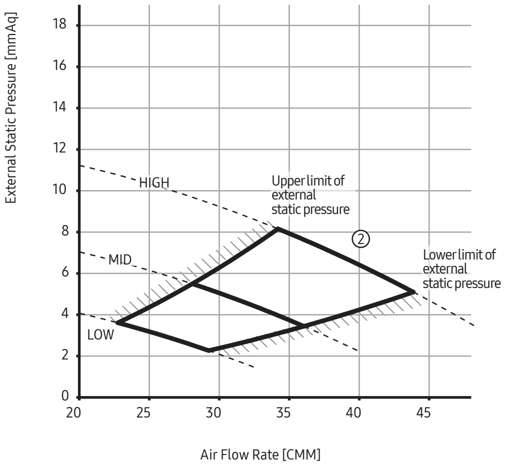
MSP Duct

7) AC120MNMDKH/EU

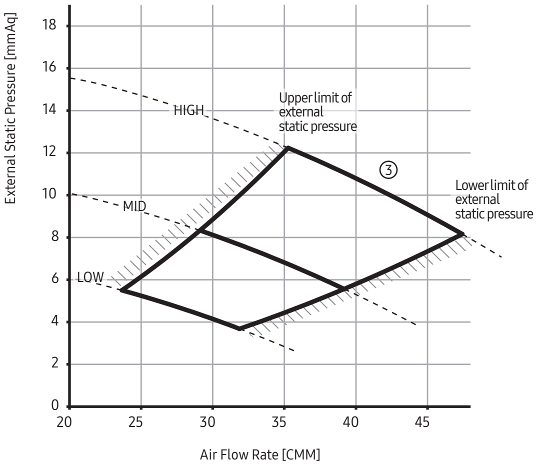
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	01B07C-1C5424-277882-374048



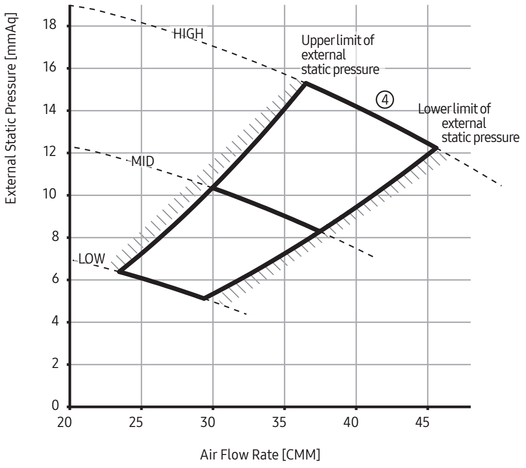
②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	01B07C-1C5489-277882-374048



③	External Static Pressure(mmAq)	Option Code
	8 < SP ≤ 12	01B07C-1C54FE-277882-374048



④	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C5940-277882-374048

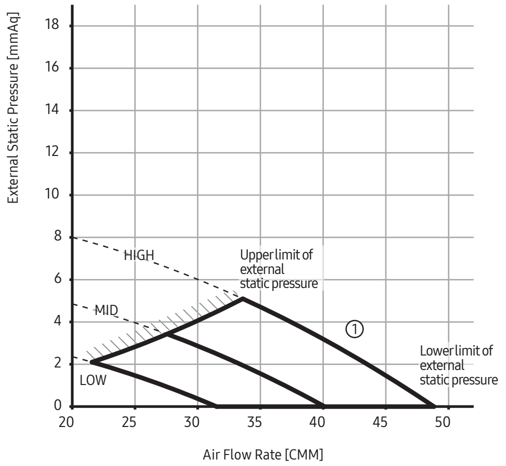


8. Fan Characteristics

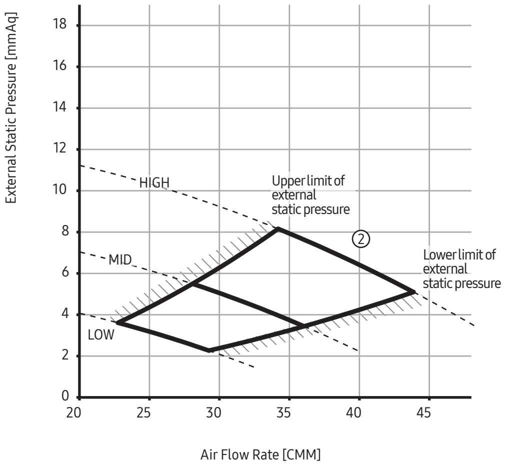
MSP Duct

8) AC140MNMDKH/EU

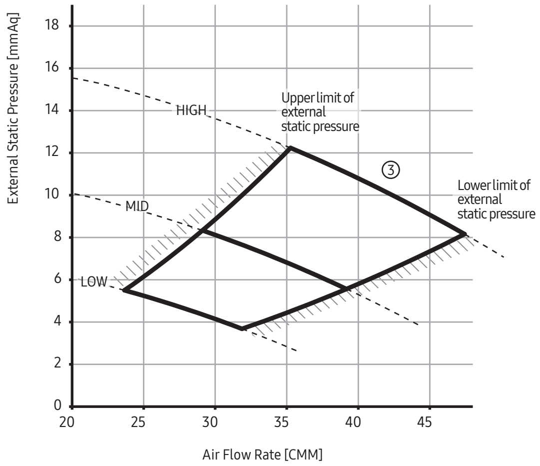
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 4	01B07C-1C5424-278CA0-374045



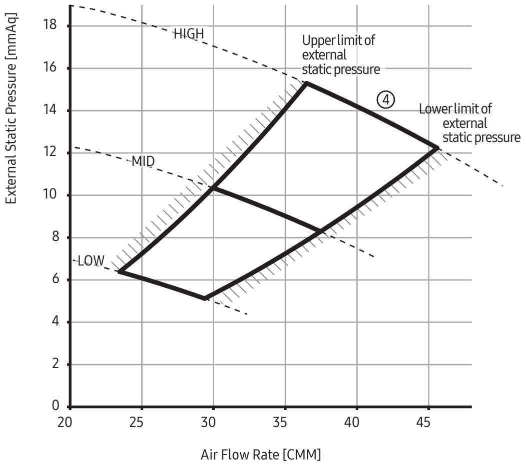
②	External Static Pressure(mmAq)	Option Code
	4 < SP ≤ 8	01B07C-1C5489-278CA0-374045



③	External Static Pressure(mmAq)	Option Code
	8 < SP ≤ 12	01B07C-1C54FE-278CA0-374045



④	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B07C-1C5940-278CA0-374045



NOTE

- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

Console

Features & Benefits

Console Type - Luxurious style and calm

Create an exquisite interior complemented by elegant design and quiet performance

The slim, elegant Samsung Console Type indoor unit is designed to perfectly fit spaces with high ceilings and numerous windows while maintaining an optimal indoor temperature. Samsung's console air conditioning solution makes any environment more pleasant and comfortable with features such as:

Two-way airflow

Featuring a 2-way air outlet, Samsung's console unit includes two separate air outlets for cooling and heating. The warmer air comes out from the bottom part of the air outlet to spread the warm air evenly throughout the room. Users stay cooler or warmer in every corner of the room.

Slim, low-profile design

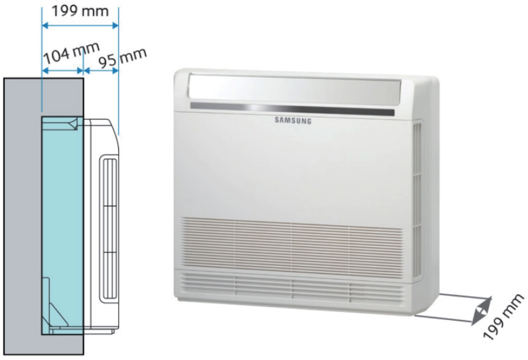
Samsung's console type air conditioner is only 199 mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

Stay-clean panel

The intelligently designed clean panel keeps dust from accumulating, so the unit and the room stay cleaner.

Sophisticated control

The touchscreen display delivers convenient control, and is an elegant example of functional art.



1. Specification

Console

System	Model Name	Indoor Unit			AC026MNJDKH/EU	AC035MNJDKH/EU	AC052MNJDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	0.98 / 2.60 / 3.40	1.15 / 3.50 / 3.90	1.90 / 5.00 / 5.50
				Btu/h	3,300 / 8,900 / 11,600	3,900 / 11,900 / 13,300	6,500 / 17,100 / 18,800
			Heating (Min/Std/Max)	kW	0.95 / 3.50 / 4.20	1.05 / 4.00 / 4.60	1.50 / 5.60 / 6.50
				Btu/h	3,200 / 11,900 / 14,300	3,600 / 13,600 / 15,700	5,100 / 19,100 / 22,200
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.23 / 0.70 / 1.20	0.25 / 1.09 / 1.50	0.25 / 1.75 / 2.20
			Heating (Min/Std/Max)	kW	0.21 / 1.00 / 1.45	0.21 / 1.21 / 1.80	0.25 / 1.73 / 2.50
		Current Input	Cooling (Min/Std/Max)	A	1.60 / 4.00 / 5.50	1.60 / 5.60 / 7.50	2.60 / 7.90 / 10.00
			Heating (Min/Std/Max)	A	1.30 / 5.00 / 7.00	1.30 / 5.90 / 10.50	2.30 / 7.90 / 14.00
		Current	MCA	A	11	11	21
			MFA	A	12.5	12.5	25
	Efficiency	EER	Cooling	W/W	3.71	3.21	2.86
		COP	Heating	W/W	3.50	3.31	3.24
		SEER (Cooling Energy Grade)		W/W	6.3 (A++)	6.1 (A++)	5.9 (A+)
		SCOP (Heating Energy Grade)		W/W	4.6 (A++)	4.3 (A+)	3.8 (A)
		Pdesignh		kW	2.2	2.2	2.8
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	12.7
				Φ, inch	3/8	3/8	1/2
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	20	20	30
			Elevation	m	15	15	20
			Chargeless	m	20	20	5
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.05 / 2.19	1.05 / 2.19	1.3 / 2.71

1. Specification

Console

Indoor Unit	Model Name	Indoor Unit			AC026MNJDKH/EU	AC035MNJDKH/EU	AC052MNJDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan
		Quantity		EA	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	7.5 / 6.8 / 6.0	8.5 / 7.2 / 6.2	9.0 / 8.0 / 7.0
				l/s	125.0 / 113.3 / 100.0	141.7 / 120.0 / 103.3	150.0 / 133.3 / 116.7
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	35 x 1	35 x 1	35 x 1
	Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 31 / 26 / 23	38 / 34 / 30 / 24	43 / 39 / 35 / 25
		Sound Power Level		dB(A)	53	55	60
	External Dimension	Net Weight		kg	16	16	16.2
		Shipping Weight		kg	20.8	20.8	21
		Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
		Shipping Dimensions (WxHxD)		mm	805 x 705 x 297	805 x 705 x 297	805 x 705 x 297
	Casing	Material		-	HIPS	HIPS	HIPS
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Included	Included	Included

1. Specification

Console

Outdoor Unit	Model Name	Indoor Unit			AC026MNJDKH/EU	AC035MNJDKH/EU	AC052MNJDKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	FMC
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Al
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER	UG9TK3150FE4
		Output		kW	0.83	0.83	1.42
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	320	320	500
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	29	30	40
				l/s	483	500	667
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48
			Heating	dB(A)	47	48	48
		Sound Power Level		dB(A)	59	61	62
	External Dimension	Net Weight		kg	32.8	32.8	43.8
		Shipping Weight		kg	35.8	35.8	47.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384	1023 x 730 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

Console

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026MNJDKH/EU	16	Max.	3.4	4.2	High	7.5 / 8.5	36	53
		Std.	2.6	3.5	Mid	6.8 / 7.2	31	-
		Min.	0.98	0.95	Low	6.0 / 6.2	26	-
AC035MNJDKH/EU	16	Max.	3.9	4.6	High	8.5 / 9.0	38	55
		Std.	3.5	4.0	Mid	7.2 / 8.2	34	-
		Min.	1.15	1.05	Low	6.2 / 7.2	30	-
AC052MNJDKH/EU	16.2	Max.	5.5	6.5	High	9.0 / 11.0	43	60
		Std.	5.0	5.6	Mid	8.0 / 9.7	39	-
		Min.	1.9	1.5	Low	7.0 / 8.5	35	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MNJDKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC035MNJDKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1	11	11	12.5
AC052MNJDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

Console

(1) AC026MNJDKH/EU + AC026MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.54	2.15	0.50	2.67	2.21	0.51	2.78	2.28	0.52	2.87	2.35	0.53	2.92	2.33	0.54	3.07	2.30	0.54	3.22	2.26	0.55
21	2.42	2.04	0.53	2.54	2.11	0.54	2.65	2.17	0.55	2.73	2.24	0.56	2.78	2.22	0.57	2.92	2.19	0.57	3.07	2.15	0.58
35	2.30	1.95	0.66	2.42	2.01	0.67	2.52	2.07	0.69	2.60	2.13	0.70	2.65	2.11	0.71	2.78	2.09	0.71	2.92	2.05	0.73
46	1.96	1.80	0.59	2.06	1.86	0.61	2.14	1.92	0.62	2.21	1.97	0.63	2.25	1.95	0.64	2.37	1.93	0.64	2.49	1.90	0.66
50	1.50	1.42	0.53	1.57	1.46	0.54	1.64	1.51	0.55	1.69	1.55	0.56	1.72	1.54	0.57	1.81	1.52	0.57	1.90	1.49	0.58

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.46	1.33	2.44	1.31	2.42	1.30	2.39	1.29	2.37	1.27	2.34	1.26
-15	3.11	1.53	3.08	1.52	3.05	1.50	3.01	1.49	2.98	1.47	2.95	1.46
-5	3.50	1.43	3.46	1.41	3.43	1.40	3.40	1.39	3.36	1.37	3.33	1.36
0	3.64	1.22	3.61	1.21	3.57	1.20	3.53	1.19	3.50	1.18	3.46	1.16
7	3.57	1.02	3.54	1.01	3.50	1.00	3.47	0.99	3.43	0.98	3.40	0.97
24	4.64	1.17	4.60	1.16	4.55	1.15	4.50	1.14	4.46	1.13	4.41	1.12

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Console

(2) AC035MNJDKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.54	0.78	3.59	2.61	0.80	3.74	2.69	0.81	3.86	2.78	0.83	3.94	2.75	0.84	4.13	2.72	0.84	4.34	2.67	0.86
21	3.25	2.41	0.82	3.42	2.49	0.84	3.56	2.57	0.85	3.68	2.65	0.87	3.75	2.62	0.88	3.94	2.59	0.89	4.13	2.54	0.91
35	3.10	2.30	1.03	3.26	2.37	1.05	3.40	2.44	1.07	3.50	2.52	1.09	3.57	2.49	1.10	3.75	2.47	1.11	3.94	2.42	1.13
46	2.63	2.15	0.92	2.77	2.22	0.94	2.89	2.29	0.96	2.98	2.36	0.98	3.03	2.34	0.99	3.19	2.31	1.00	3.35	2.27	1.02
50	2.01	1.70	0.82	2.12	1.76	0.84	2.21	1.81	0.85	2.28	1.87	0.87	2.32	1.85	0.88	2.44	1.83	0.89	2.56	1.79	0.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	1.60	2.79	1.59	2.76	1.57	2.73	1.56	2.71	1.54	2.68	1.53
-15	3.55	1.85	3.51	1.83	3.48	1.82	3.45	1.80	3.41	1.78	3.38	1.76
-5	4.00	1.73	3.96	1.71	3.92	1.69	3.88	1.68	3.84	1.66	3.80	1.64
0	4.16	1.48	4.12	1.47	4.08	1.45	4.04	1.44	4.00	1.42	3.96	1.41
7	4.08	1.23	4.04	1.22	4.00	1.21	3.96	1.20	3.92	1.19	3.88	1.17
24	5.30	1.42	5.25	1.41	5.20	1.39	5.15	1.38	5.10	1.36	5.05	1.35

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Console

(3) AC052MNJDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	3.57	1.25	5.13	3.68	1.28	5.35	3.80	1.30	5.51	3.91	1.33	5.62	3.87	1.34	5.90	3.84	1.36	6.20	3.76	1.38
21	4.64	3.40	1.32	4.89	3.51	1.34	5.09	3.62	1.37	5.25	3.73	1.40	5.36	3.69	1.41	5.62	3.65	1.43	5.90	3.58	1.46
35	4.42	3.24	1.65	4.66	3.34	1.68	4.85	3.44	1.72	5.00	3.55	1.75	5.10	3.51	1.77	5.36	3.48	1.79	5.62	3.41	1.82
46	3.76	3.04	1.48	3.96	3.13	1.51	4.12	3.23	1.54	4.25	3.33	1.58	4.34	3.30	1.59	4.55	3.26	1.61	4.78	3.20	1.64
50	2.88	2.40	1.32	3.03	2.48	1.34	3.15	2.55	1.37	3.25	2.63	1.40	3.32	2.61	1.41	3.48	2.58	1.43	3.65	2.53	1.46

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	3.94	2.29	3.90	2.27	3.86	2.25	3.83	2.23	3.79	2.20	3.75	2.18
-15	4.97	2.65	4.92	2.62	4.87	2.60	4.82	2.57	4.78	2.54	4.73	2.52
-5	5.60	2.47	5.54	2.45	5.49	2.42	5.43	2.40	5.38	2.37	5.33	2.35
0	5.83	2.12	5.77	2.10	5.71	2.08	5.65	2.06	5.60	2.03	5.54	2.01
7	5.71	1.76	5.66	1.75	5.60	1.73	5.54	1.71	5.49	1.70	5.43	1.68
24	7.43	2.03	7.35	2.01	7.28	1.99	7.21	1.97	7.14	1.95	7.06	1.93

NOTE

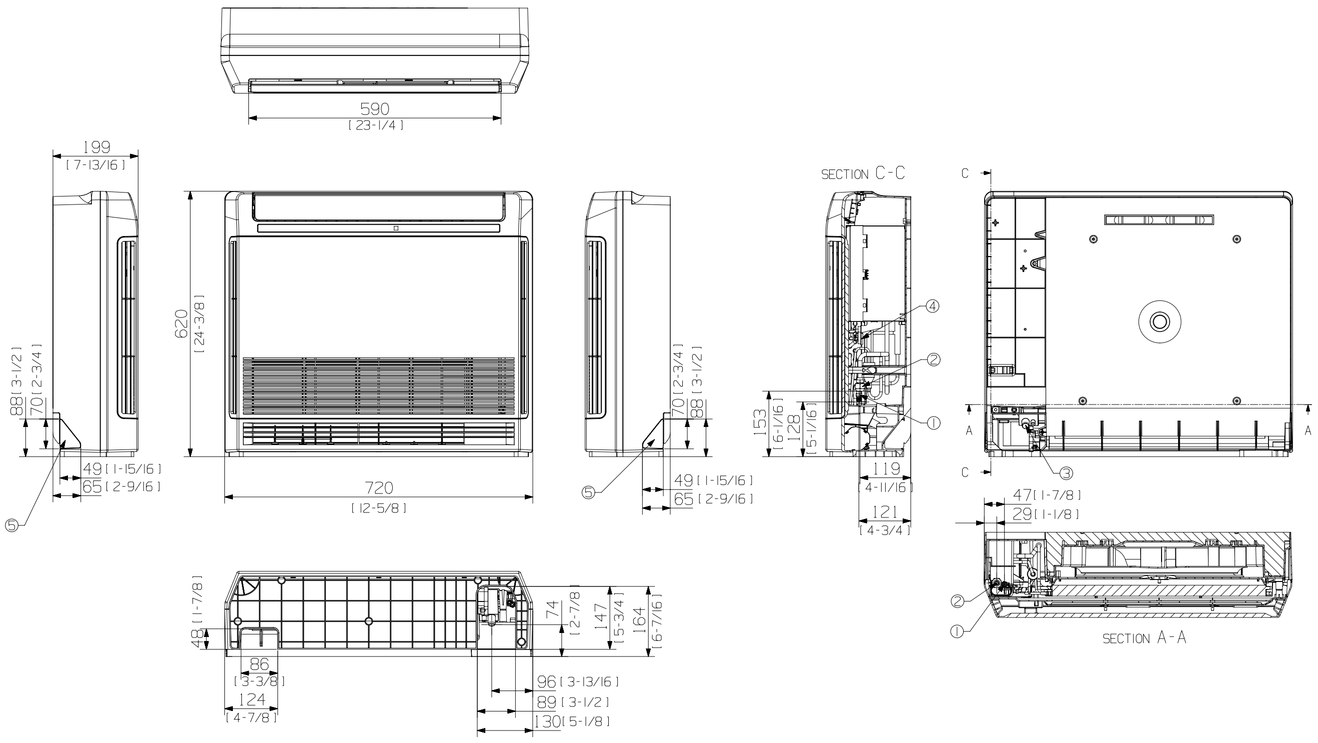
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

Console

AC026/035/052MNJDKH/EU

Units : mm [inches]

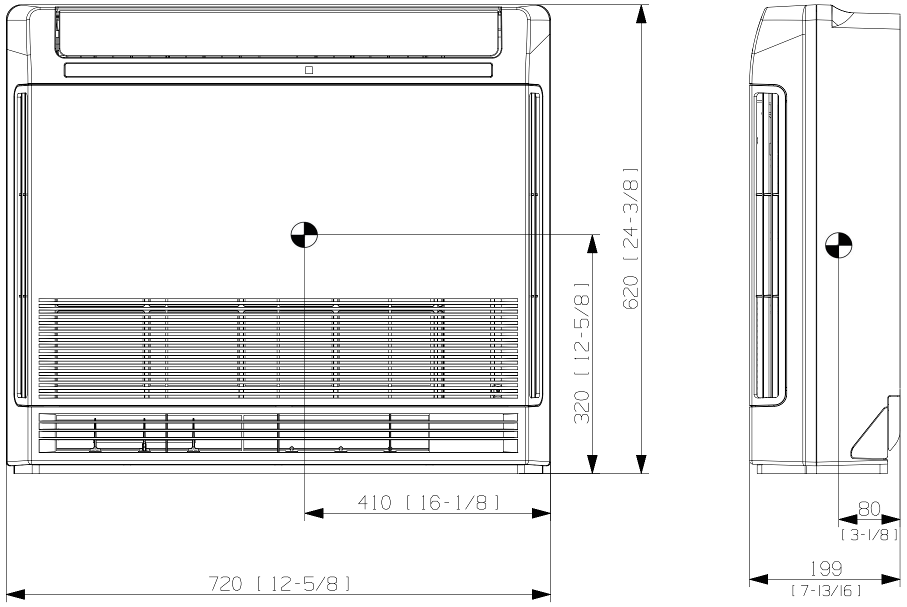


No.	Name	Description	
		AC026MNJDKH/EU	AC035MNJDKH/EU AC052MNJDKH/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Power supply & Communication wiring conduit		
6	Knockout hole for drain hose		

5. Center of Gravity

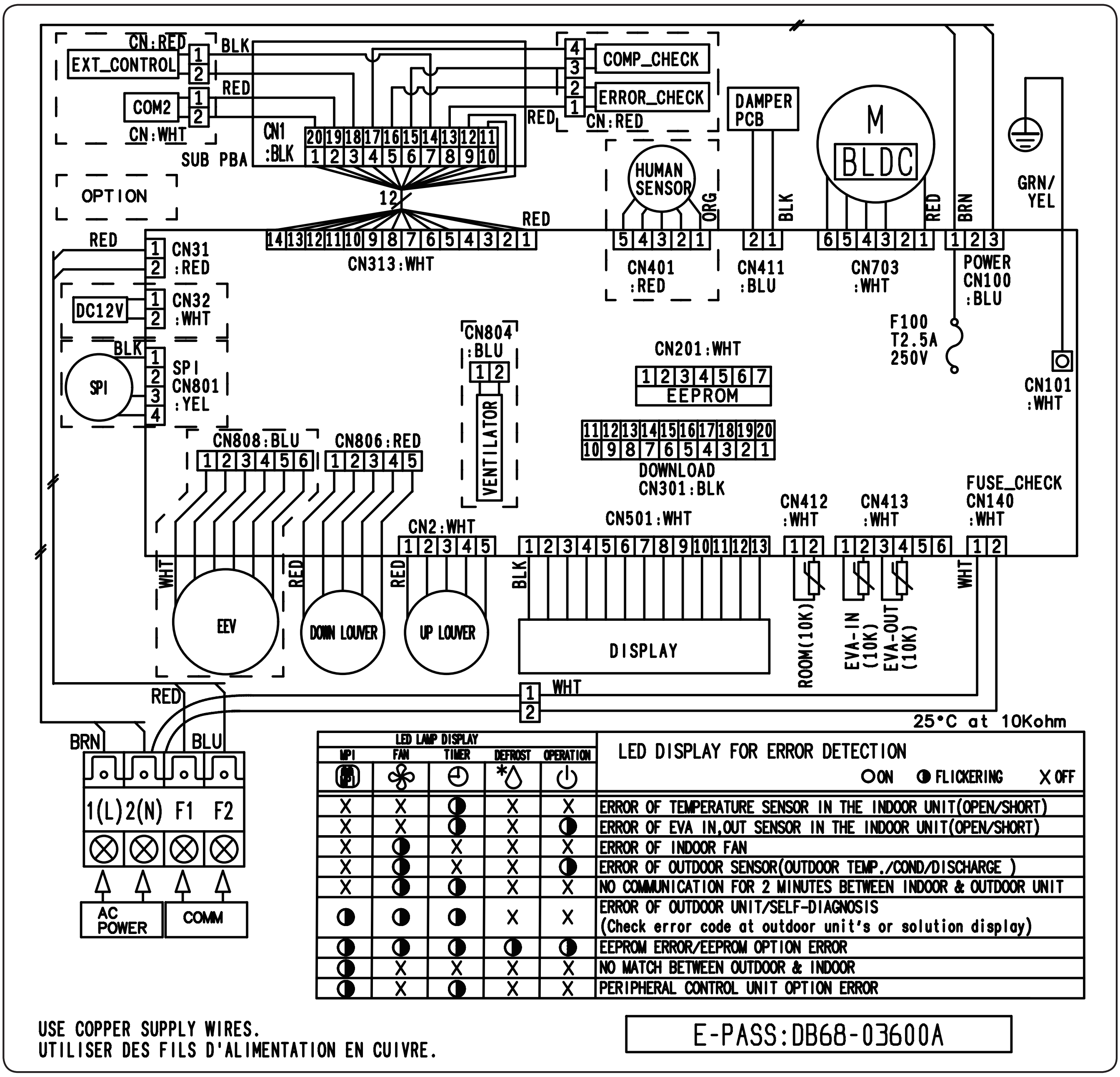
Console

Units : mm [inches]



6. Electrical Wiring Diagram

Console



LED DISPLAY FOR ERROR DETECTION

○ ON ◑ FLICKERING X OFF

LED LAMP DISPLAY					
MPI	FAN	TIMER	DEFROST	OPERATION	
X	X	◑	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	X	◑	X	◑	ERROR OF EVA IN,OUT SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
X	◑	X	X	X	ERROR OF INDOOR FAN
X	◑	X	X	◑	ERROR OF OUTDOOR SENSOR(OUTDOOR TEMP./COND/DISCHARGE)
X	◑	◑	X	X	NO COMMUNICATION FOR 2 MINUTES BETWEEN INDOOR & OUTDOOR UNIT
◑	◑	◑	X	X	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (Check error code at outdoor unit's or solution display)
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR
◑	X	X	X	X	NO MATCH BETWEEN OUTDOOR & INDOOR
◑	X	◑	X	X	PERIPHERAL CONTROL UNIT OPTION ERROR

USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

E-PASS:DB68-03600A

DAMPER PCB	Printed Circuit Board(Damper)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
SUB PBA	Printed Circuit Board(SUB)	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

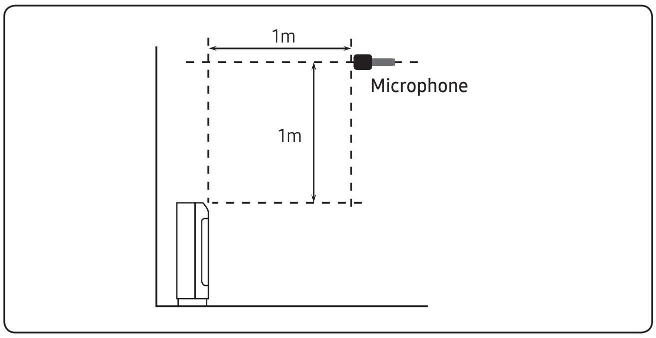
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭ : connector, ⁄N : The wire quantity

7. Sound Data

Console

Sound Pressure level

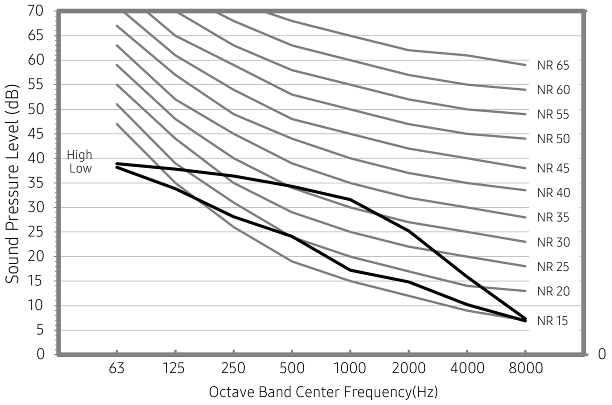
Unit: dB(A)



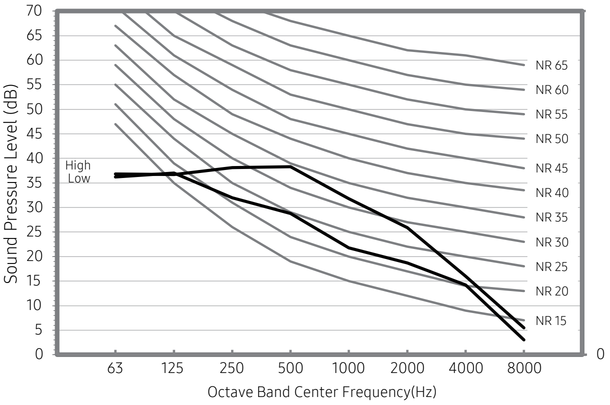
Model	Hi	MID	LOW
AC026MNJDKH/EU	36	31	26
AC035MNJDKH/EU	38	34	30
AC052MNJDKH/EU	43	39	35

- NR Curve

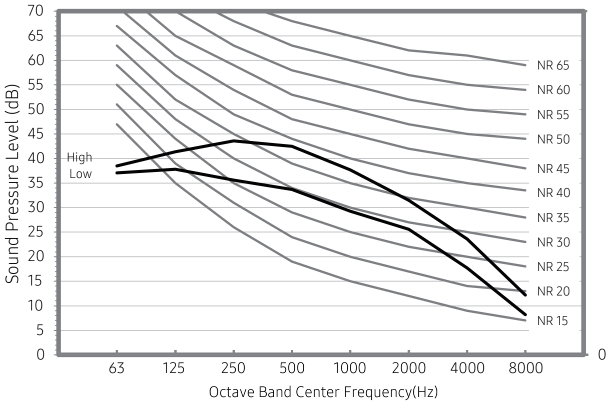
1) AC026MNJDKH/EU



2) AC035MNJDKH/EU



3) AC052MNJDKH/EU



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

7. Sound Data

Console

Sound Power level

NOTE

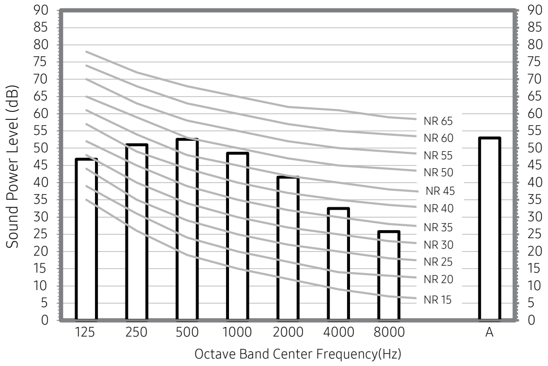
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

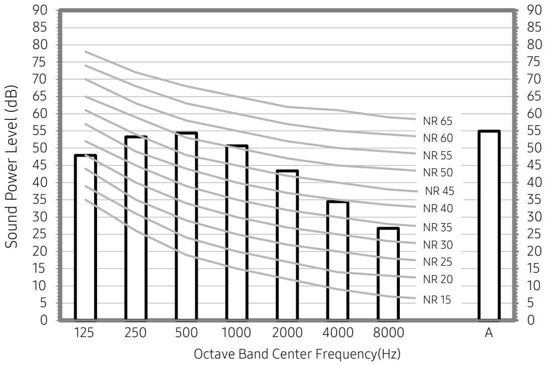
Model	Power
AC026MNJDKH/EU	53
AC035MNJDKH/EU	55
AC052MNJDKH/EU	60

- NR Curve

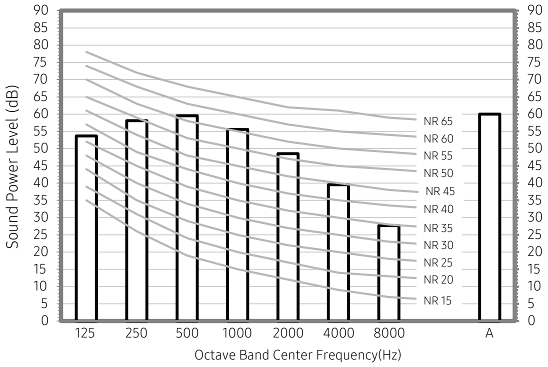
1) AC026MNJDKH/EU



2) AC035MNJDKH/EU



3) AC052MNJDKH/EU



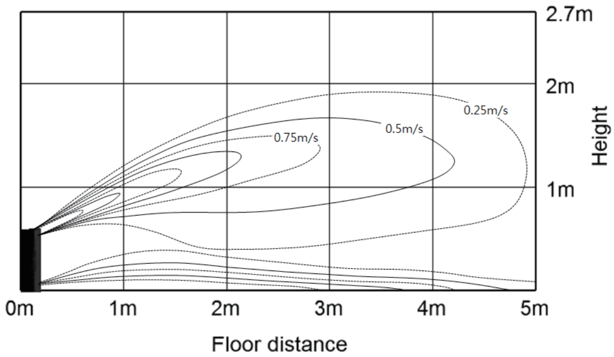
8. Temperature and air flow distribution

Console

AC026MNJDKH/EU

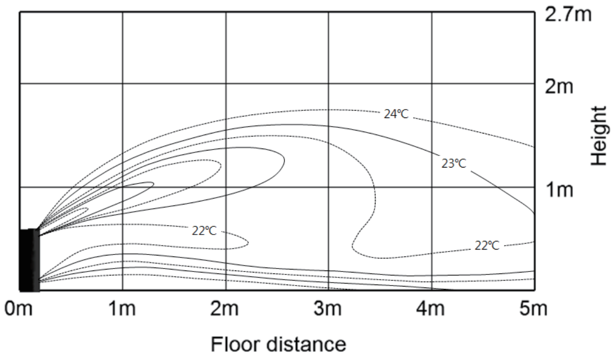
- Cooling Air Velocity distribution

(Discharge angle : 40 degree)



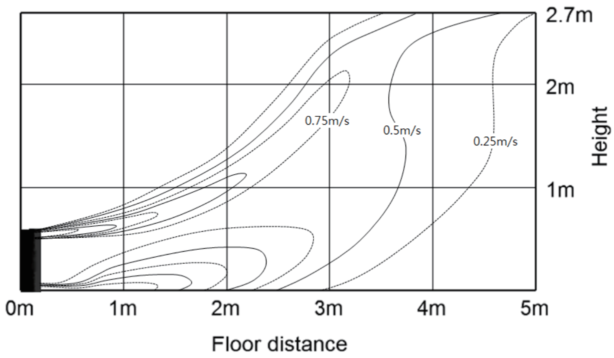
- Cooling temperature distribution

(Discharge angle : 40 degree)



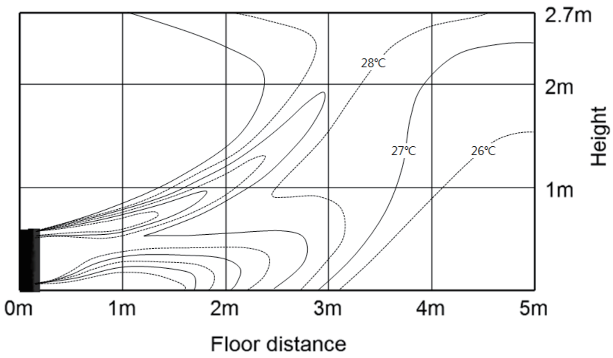
- Heating Air Velocity distribution

(Discharge angle : 4 degree)



- Heating temperature distribution

(Discharge angle : 4 degree)



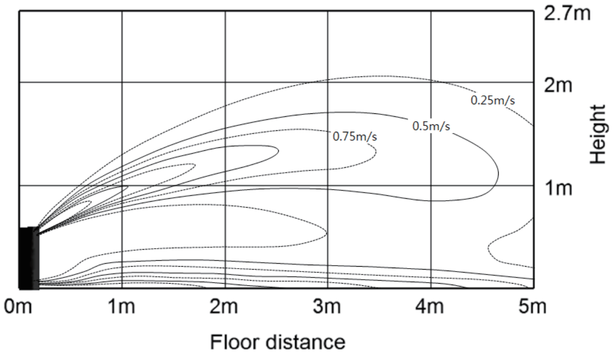
8. Temperature and air flow distribution

Console

AC035MNJDKH/EU

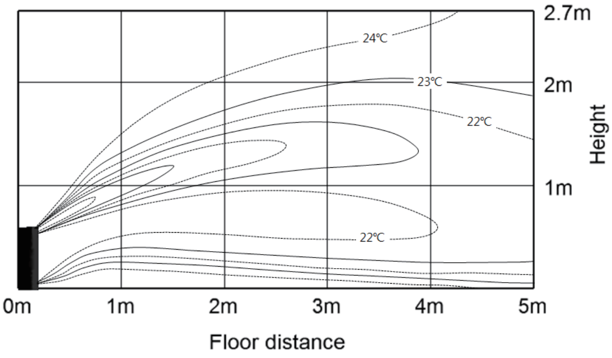
- Cooling Air Velocity distribution

  (Discharge angle : 40 degree)



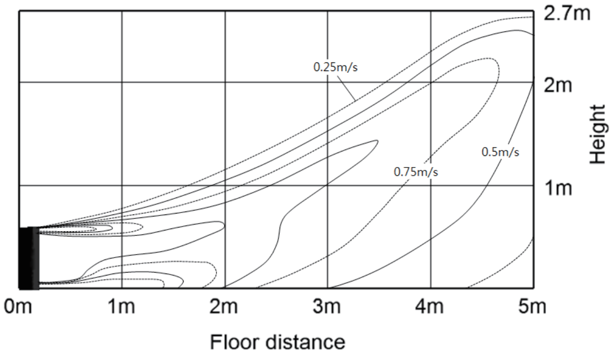
- Cooling temperature distribution

  (Discharge angle : 40 degree)



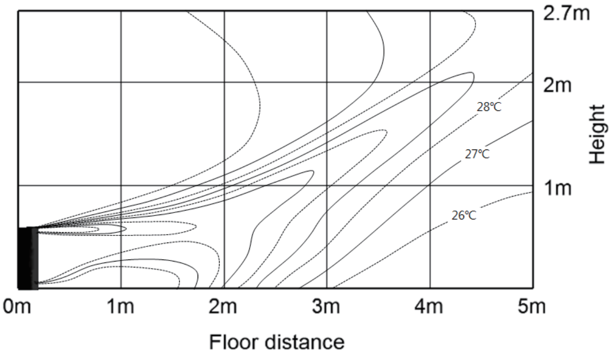
- Heating Air Velocity distribution

  (Discharge angle : 4 degree)



- Heating temperature distribution

  (Discharge angle : 4 degree)



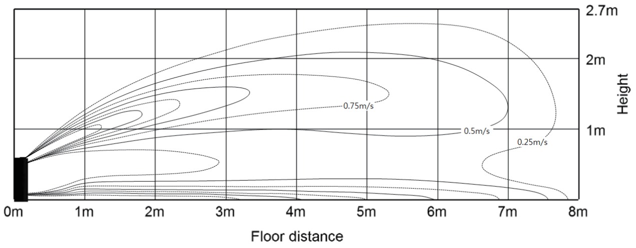
8. Temperature and air flow distribution

Console

AC052MNJDKH/EU

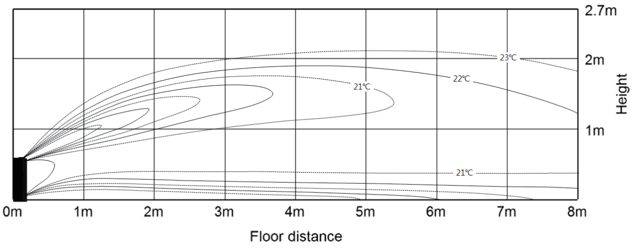
- Cooling Air Velocity distribution

  (Discharge angle : 40 degree)



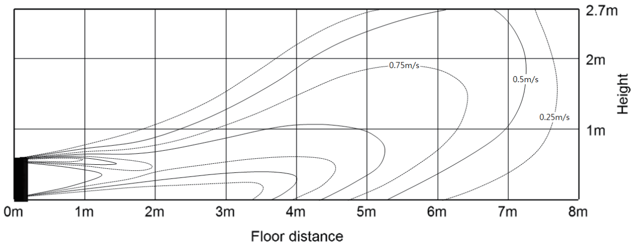
- Cooling temperature distribution

  (Discharge angle : 40 degree)



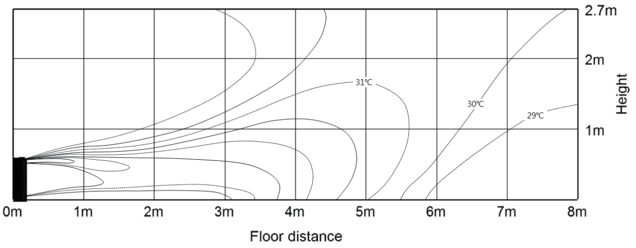
- Heating Air Velocity distribution

  (Discharge angle : 4 degree)



- Heating temperature distribution

  (Discharge angle : 4 degree)



Ceiling

Features & Benefits

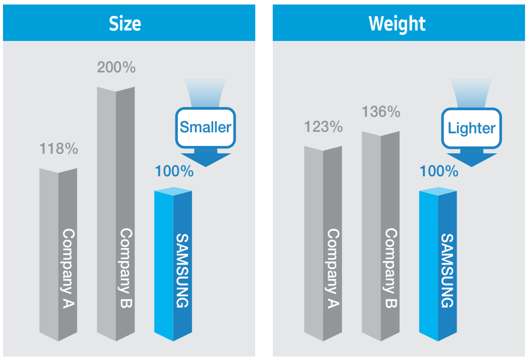
Ceiling Type - Slim yet functional design

Distribute refreshing airflow where needed with a compact, flexible design

Samsung's Ceiling Type indoor unit has 2-way installation options for the ceiling and floor, enabling more efficient use of available space. Users can enjoy crisp, powerful air throughout their entire space from the compact unit in the ceiling or floor.

Small package, big performance

The Samsung Ceiling Type air conditioner boasts a slim, compact design—half the size of conventional products—with cooling power comparable to larger units.



7.1kW Model

Choice of installation options

Depending on the available space and the purpose of the air conditioner, the indoor unit can be installed behind the ceiling the ceiling or on the floor.

1. Specification

Ceiling

System	Model Name	Indoor Unit			AC052MNCDKH/EU	AC071MNCDKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.70 / 5.00 / 5.60	2.20 / 7.10 / 8.00
				Btu/h	5,800 / 17,100 / 19,100	7,500 / 24,200 / 27,300
			Heating (Min/Std/Max)	kW	1.70 / 6.00 / 7.70	1.90 / 8.00 / 9.00
				Btu/h	5,800 / 20,500 / 26,300	6,500 / 27,300 / 30,700
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.48 / 1.64 / 1.90	0.35 / 2.93 / 3.95
			Heating (Min/Std/Max)	kW	0.43 / 1.78 / 3.05	0.35 / 2.92 / 3.95
		Current Input	Cooling (Min/Std/Max)	A	2.80 / 7.40 / 9.00	2.00 / 12.80 / 17.00
			Heating (Min/Std/Max)	A	2.40 / 7.90 / 14.50	2.00 / 12.80 / 17.00
		Current	MCA	A	21	21
			MFA	A	25	25
	Efficiency	EER	Cooling	W/W	3.05	2.42
		COP	Heating	W/W	3.37	2.74
		SEER (Cooling Energy Grade)		W/W	6.1 (A++)	5.6 (A+)
		SCOP (Heating Energy Grade)		W/W	3.9 (A)	3.9 (A)
		Pdesignh		kW	2.4	3.5
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm	6.35	6.35
				Φ, inch	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm	12.7	15.88
				Φ, inch	1/2	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	30	50
			Elevation	m	20	30
			Chargeless	m	5	5
	Wiring connections	Power Source Wire		mm^2	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A
		Factory Charging		kg / tCO_2e	1.3 / 2.71	1.5 / 3.13

1. Specification

Ceiling

Indoor Unit	Model Name	Indoor Unit			AC052MNCDKH/EU	AC071MNCDKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan
		Quantity		EA	2	2
		Air Flow Rate	High/Mid/Low	CMM	12.6 / 11.3 / 10.0	15.2 / 14.1 / 13.1
				l/s	210 / 188.3 / 166.7	253.3 / 235.0 / 218.3
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Output		W x n	40 x 1	40 x 1
	Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	41 / 39 / 36	46 / 44 / 42
		Sound Power Level		dB(A)	60	64
	External Dimension	Net Weight		kg	20	20
		Shipping Weight		kg	26	26
		Net Dimensions (WxHxD)		mm	1000 x 200 x 650	1000 x 200 x 650
		Shipping Dimensions (WxHxD)		mm	1074 x 294 x 726	1074 x 294 x 726
	Casing	Material		-	ABS	ABS
	Control System	Infrared remote control		-	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-
		Air Filter		-	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-

1. Specification

Ceiling

Outdoor Unit	Model Name	Indoor Unit			AC052MNCDKH/EU	AC071MNCDKH/EU
		Outdoor Unit			AC052MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	FMC	FMC
		Material	Fin	-	Al	Al
			Tube	-	Al	Al
		Fin Treatment		-	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9TK3150FE4	UG4T200FUAE4
		Output		kW	1.42	1.79
		Oil	Type	-	POE	POE
			Initial charge	cc	500	650
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		CMM	40	51
				l/s	667	850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	49
			Heating	dB(A)	48	51
		Sound Power Level		dB(A)	62	65
	External Dimension	Net Weight		kg	43.8	53
		Shipping Weight		kg	47.5	57.2
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	1023 x 730 x 413	1023 x 911 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

Ceiling

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052MNCDKH/EU	20	Max.	5.6	7.7	High	12.6 / 12.6	41	60
		Std.	5.0	6.0	Mid	11.3 / 11.3	39	-
		Min.	1.7	1.7	Low	10.0 / 10.0	36	-
AC071MNCDKH/EU	20	Max.	8.0	9.0	High	15.2 / 15.2	46	64
		Std.	7.1	8.0	Mid	14.1 / 14.1	44	-
		Min.	2.2	1.9	Low	13.1 / 13.1	42	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC052MNCDKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25
AC071MNCDKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1	21	21	25

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

Ceiling

(1) AC052MNCDKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	3.82	1.17	5.13	3.94	1.20	5.35	4.06	1.22	5.51	4.19	1.25	5.62	4.15	1.26	5.90	4.11	1.27	6.20	4.02	1.30
21	4.64	3.64	1.23	4.89	3.75	1.26	5.09	3.87	1.29	5.25	3.99	1.31	5.36	3.95	1.33	5.62	3.91	1.34	5.90	3.83	1.37
35	4.42	3.47	1.54	4.66	3.58	1.58	4.85	3.69	1.61	5.00	3.80	1.64	5.10	3.76	1.66	5.36	3.72	1.67	5.62	3.65	1.71
46	3.76	3.23	1.39	3.96	3.33	1.42	4.12	3.44	1.45	4.25	3.54	1.48	4.34	3.51	1.49	4.55	3.47	1.51	4.78	3.40	1.54
50	2.88	2.55	1.23	3.03	2.63	1.26	3.15	2.71	1.29	3.25	2.80	1.31	3.32	2.77	1.33	3.48	2.74	1.34	3.65	2.68	1.37

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	2.36	4.18	2.34	4.14	2.31	4.10	2.29	4.06	2.27	4.02	2.25
-15	5.32	2.72	5.27	2.70	5.22	2.67	5.17	2.64	5.12	2.62	5.06	2.59
-5	6.00	2.54	5.94	2.52	5.88	2.49	5.82	2.47	5.76	2.44	5.71	2.42
0	6.24	2.18	6.18	2.16	6.12	2.14	6.06	2.11	6.00	2.09	5.94	2.07
7	6.12	1.82	6.06	1.80	6.00	1.78	5.94	1.76	5.88	1.74	5.82	1.73
24	7.96	2.09	7.88	2.07	7.80	2.05	7.72	2.03	7.64	2.01	7.57	1.99

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Ceiling

(2) AC071MNCDKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	4.93	2.10	7.29	5.08	2.14	7.59	5.24	2.18	7.83	5.40	2.23	7.98	5.35	2.25	8.38	5.29	2.27	8.80	5.19	2.32
21	6.59	4.69	2.21	6.94	4.84	2.25	7.23	4.99	2.30	7.46	5.14	2.34	7.60	5.09	2.37	7.98	5.04	2.39	8.38	4.94	2.44
35	6.28	4.47	2.76	6.61	4.61	2.81	6.89	4.75	2.87	7.10	4.90	2.93	7.24	4.85	2.96	7.60	4.80	2.99	7.98	4.71	3.05
46	5.34	4.37	2.48	5.62	4.50	2.53	5.85	4.64	2.58	6.04	4.78	2.64	6.16	4.74	2.66	6.46	4.69	2.69	6.79	4.59	2.74
50	4.08	3.50	2.21	4.30	3.60	2.25	4.48	3.72	2.30	4.62	3.83	2.34	4.71	3.79	2.37	4.94	3.75	2.39	5.19	3.68	2.44

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	3.87	5.58	3.83	5.52	3.80	5.46	3.76	5.41	3.72	5.36	3.68
-15	7.10	4.47	7.03	4.42	6.96	4.38	6.89	4.34	6.82	4.29	6.75	4.25
-5	8.00	4.17	7.92	4.13	7.84	4.09	7.76	4.05	7.68	4.01	7.61	3.97
0	8.32	3.57	8.24	3.54	8.16	3.50	8.08	3.47	8.00	3.43	7.92	3.40
7	8.16	2.98	8.08	2.95	8.00	2.92	7.92	2.89	7.84	2.86	7.76	2.83
24	10.61	3.43	10.50	3.39	10.40	3.36	10.30	3.32	10.19	3.29	10.09	3.26

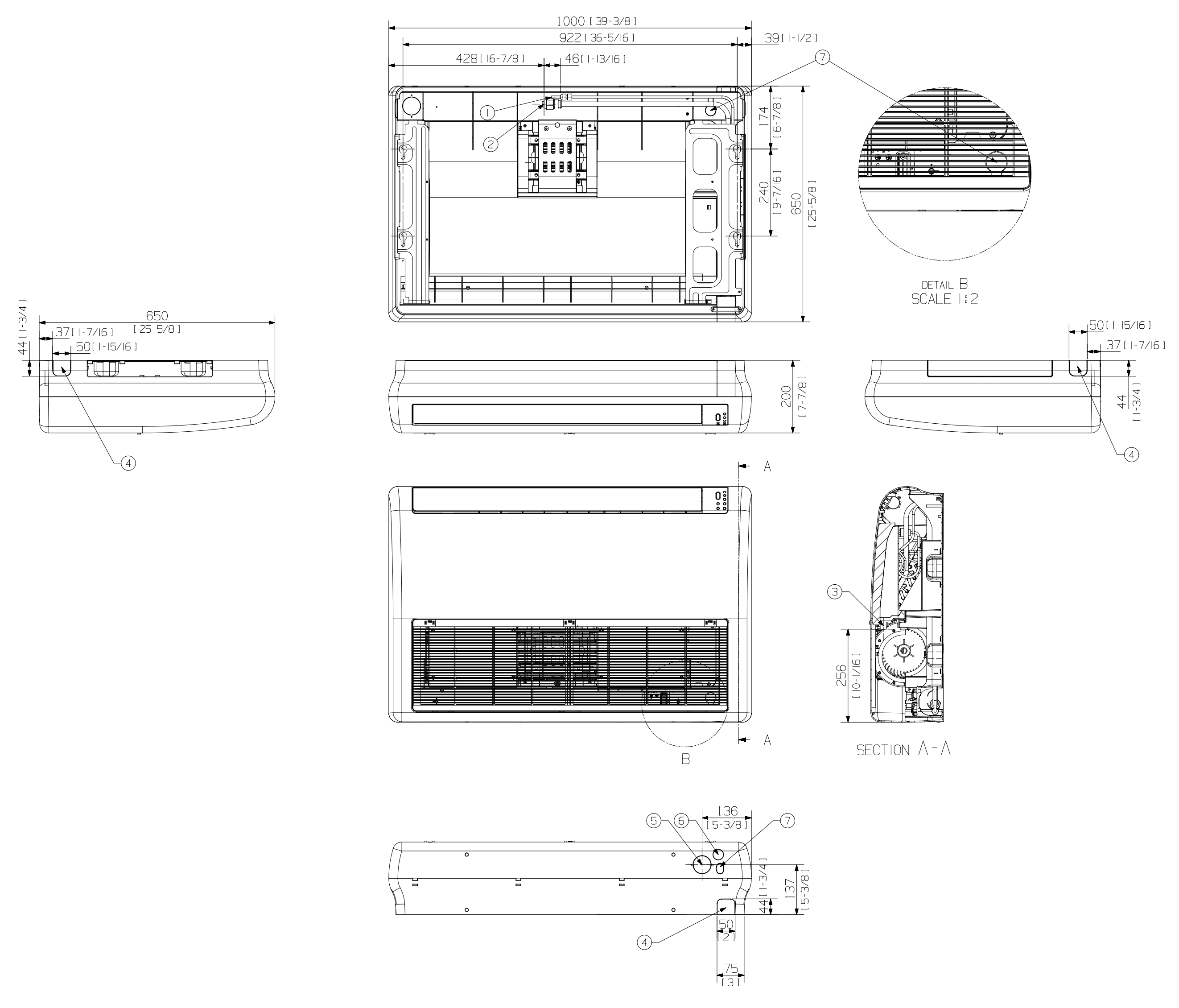
NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

Ceiling

AC052/071MNCDKH/EU

Units : mm [inches]



No.	Name	Description	
		AC052MNCDKH/EU	AC071MNCDKH/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Knockout hole for piping		
6	Knockout hole for Fresh air intake	Φ50 [2]	
7	Knockout hole for drain hose		
8	Knockout hole for wiring		

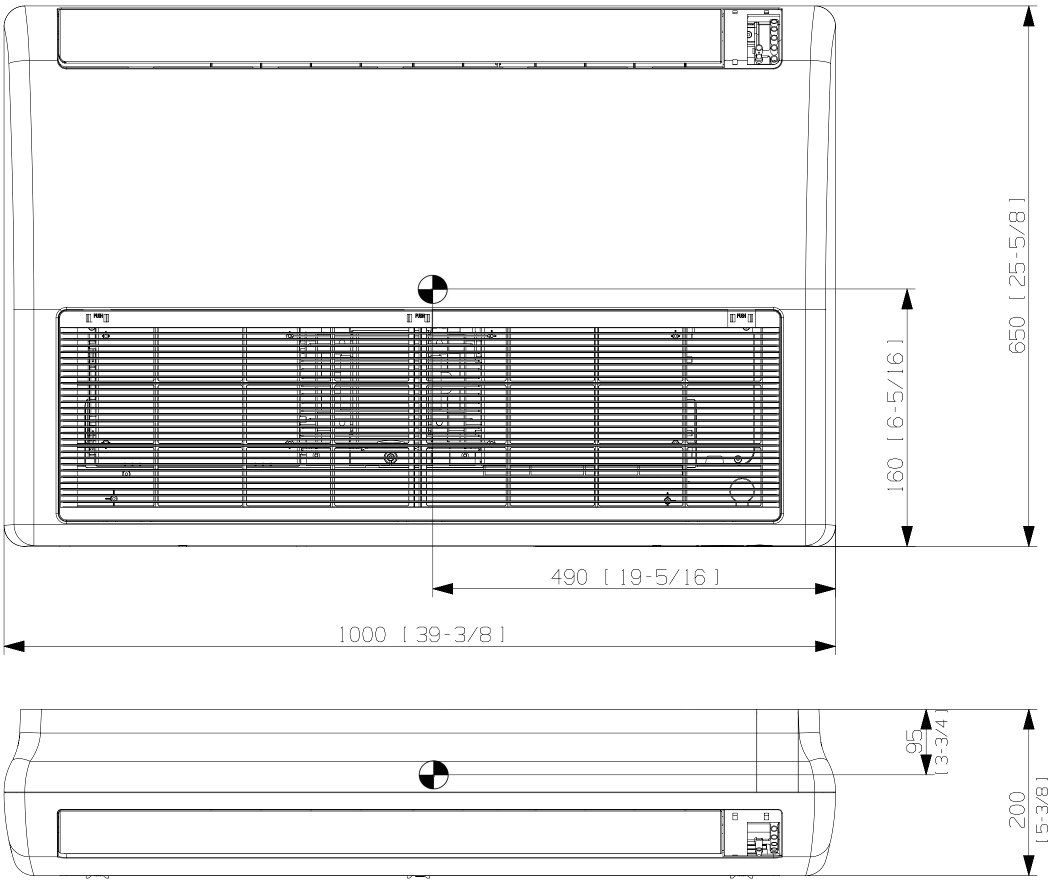
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

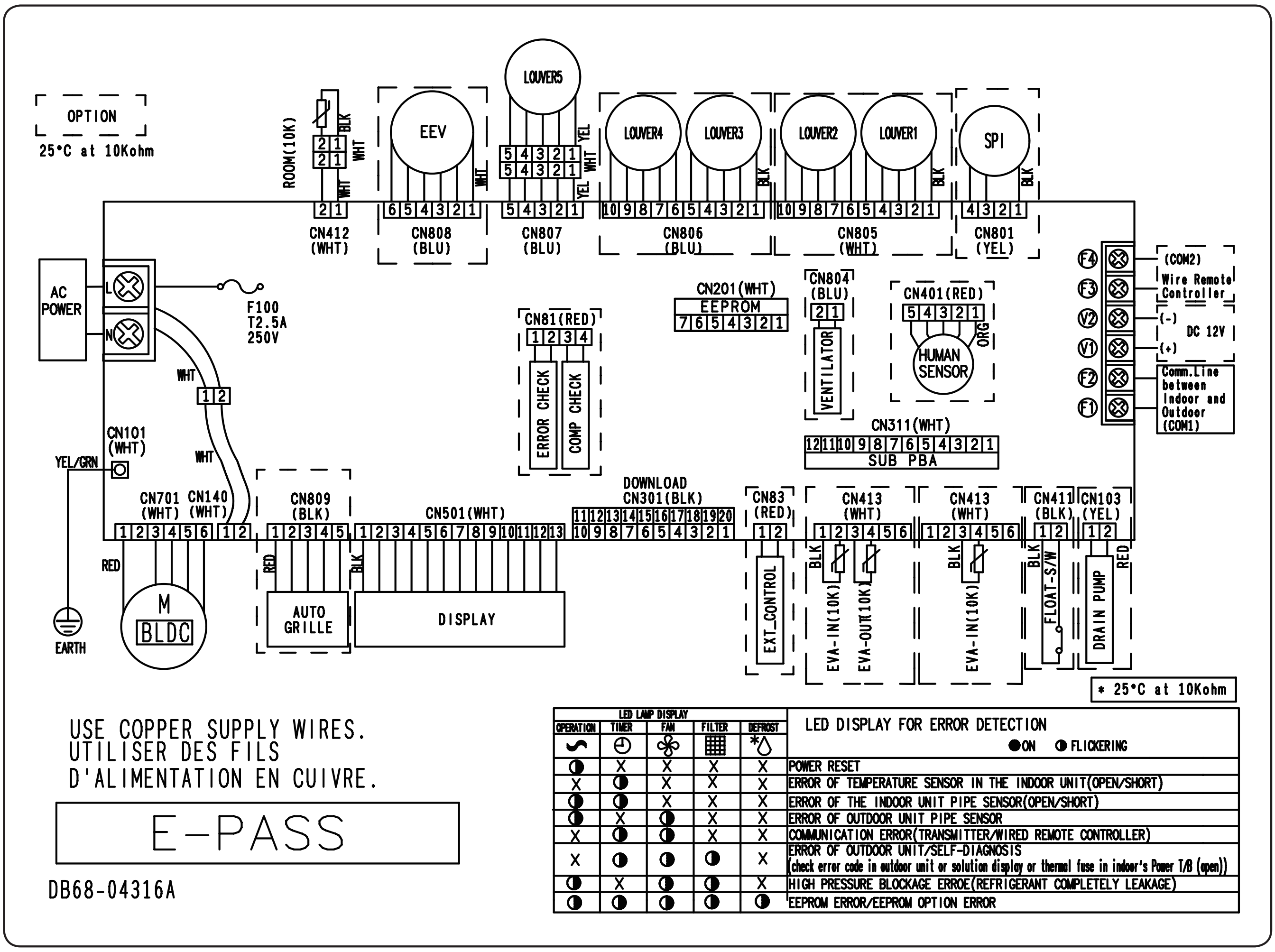
Ceiling

Units : mm [inches]



6. Electrical Wiring Diagram

Ceiling



USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

E-PASS

DB68-04316A

LED LAMP DISPLAY					LED DISPLAY FOR ERROR DETECTION ●ON ◑FLICKERING
OPERATION	TIMER	FAN	FILTER	DEFROST	
◑	X	X	X	X	POWER RESET
X	◑	X	X	X	ERROR OF TEMPERATURE SENSOR IN THE INDOOR UNIT(OPEN/SHORT)
◑	◑	X	X	X	ERROR OF THE INDOOR UNIT PIPE SENSOR(OPEN/SHORT)
◑	X	◑	X	X	ERROR OF OUTDOOR UNIT PIPE SENSOR
X	◑	◑	X	X	COMMUNICATION ERROR(TRANSMITTER/WIRED REMOTE CONTROLLER)
X	◑	◑	◑	X	ERROR OF OUTDOOR UNIT/SELF-DIAGNOSIS (check error code in outdoor unit or solution display or thermal fuse in indoor's Power T/B (open))
◑	X	◑	◑	X	HIGH PRESSURE BLOCKAGE ERROE(REFRIGERANT COMPLETELY LEAKAGE)
◑	◑	◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR

SUB PBA	Printed Circuit Board(SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT_CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

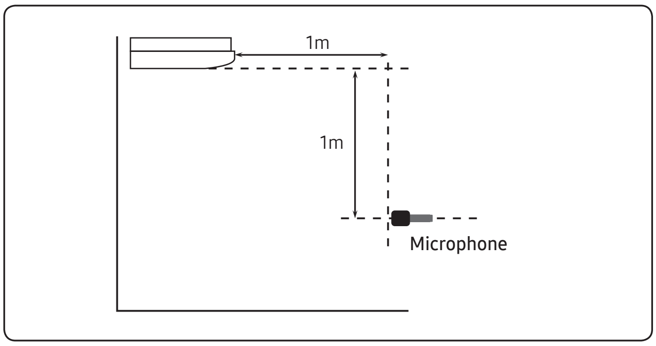
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, ⫽ : The wire quantity

7. Sound Data

Ceiling

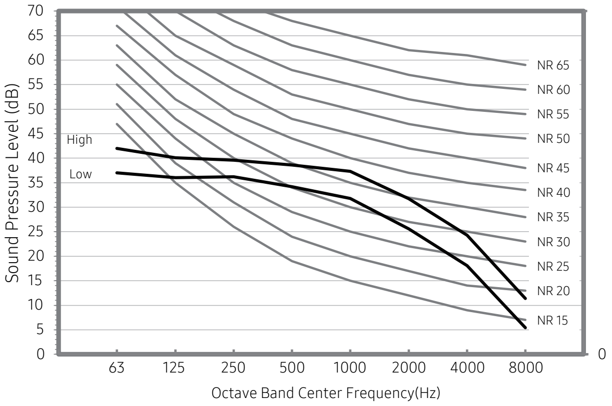
Sound Pressure level

Unit: dB(A)

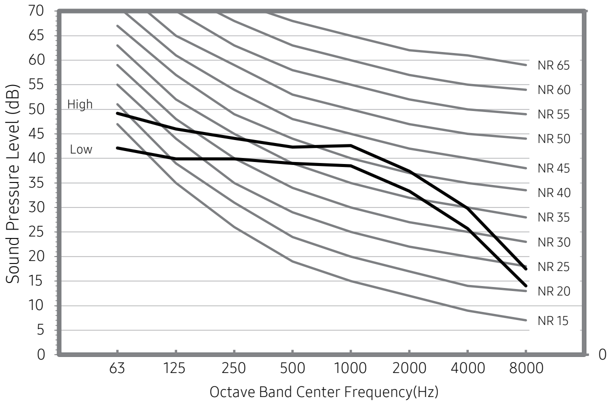


Model	Hi	MID	LOW
AC052MNCDKH/EU	41	39	36
AC071MNCDKH/EU	46	44	42

- NR Curve
  1) AC052MNCDKH/EU



  2) AC071MNCDKH/EU



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

7. Sound Data

Ceiling

Sound Power level

NOTE

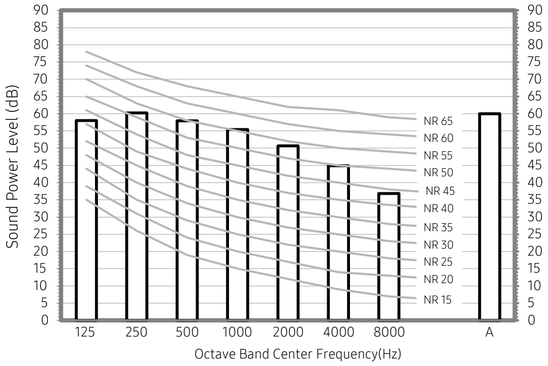
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

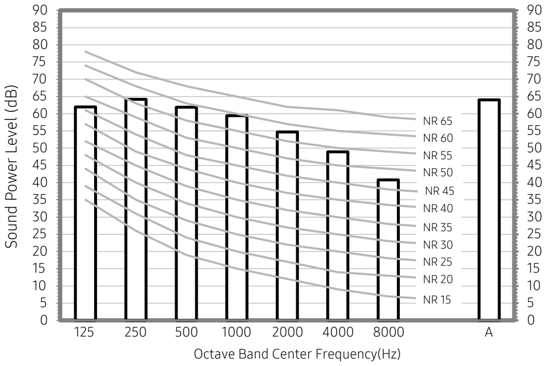
Model	Power
AC052MNCDKH/EU	60
AC071MNCDKH/EU	64

- NR Curve

1) AC052MNCDKH/EU



2) AC071MNCDKH/EU



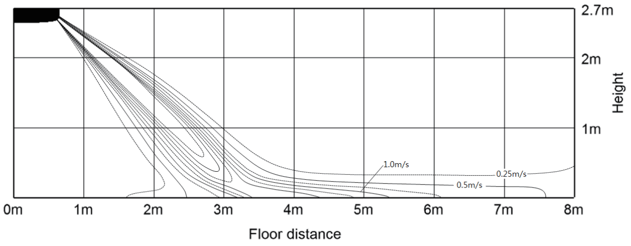
8. Temperature and air flow distribution

Ceiling (Ceiling Installation)

AC052MNCDKH/EU

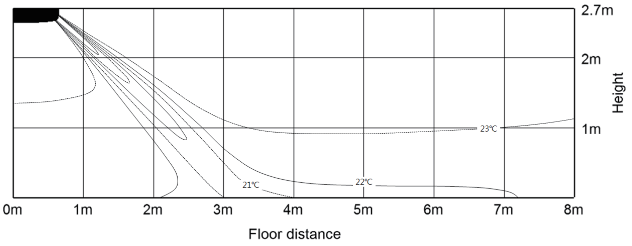
- Cooling Air Velocity distribution

  (Discharge angle : 50 degree)



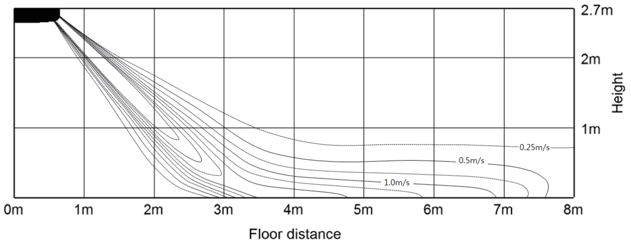
- Cooling temperature distribution

  (Discharge angle : 50 degree)



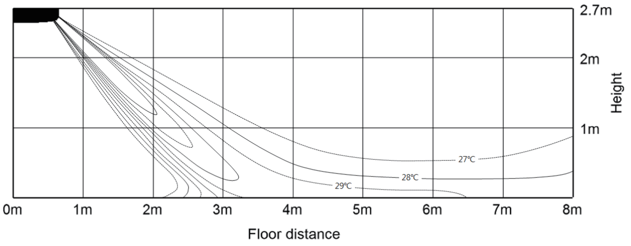
- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

  (Discharge angle : 40 degree)



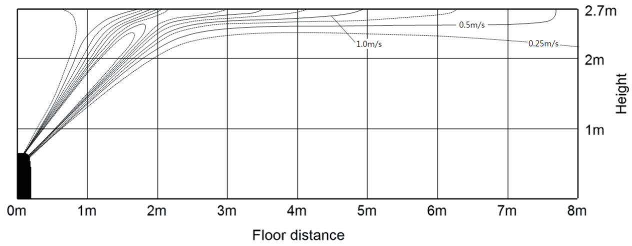
8. Temperature and air flow distribution

Ceiling (Floor Installation)

AC052MNCDKH/EU

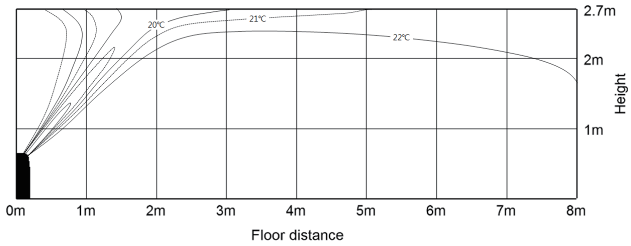
- Cooling Air Velocity distribution

  (Discharge angle : 50 degree)



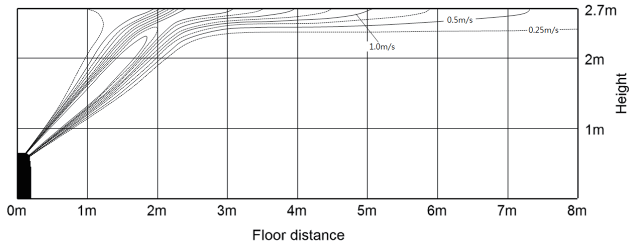
- Cooling temperature distribution

  (Discharge angle : 50 degree)



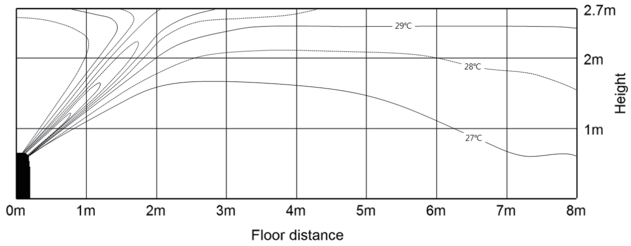
- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

  (Discharge angle : 40 degree)



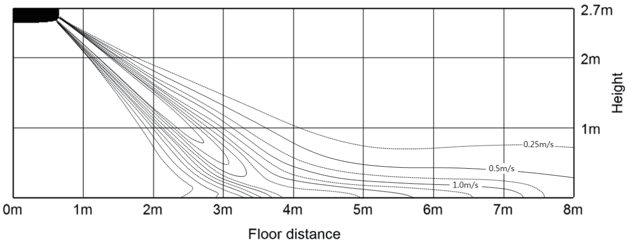
8. Temperature and air flow distribution

Ceiling (Ceiling Installation)

AC071MNCDKH/EU

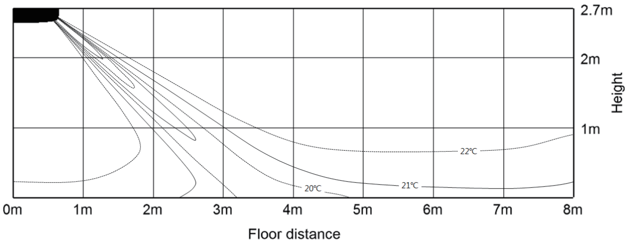
- Cooling Air Velocity distribution

(Discharge angle : 50 degree)



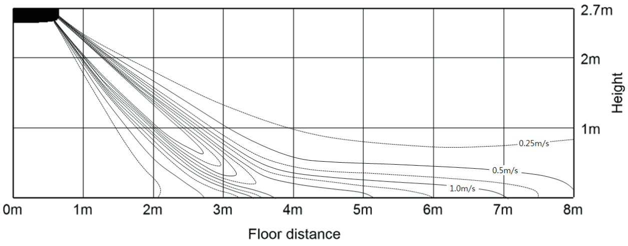
- Cooling temperature distribution

(Discharge angle : 50 degree)



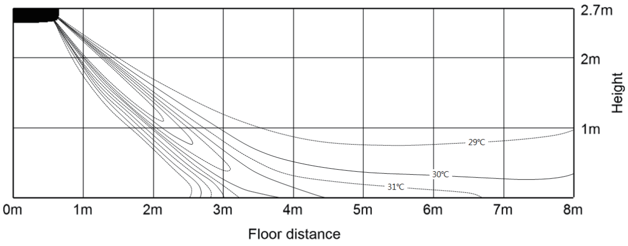
- Heating Air Velocity distribution

(Discharge angle : 40 degree)



- Heating temperature distribution

(Discharge angle : 40 degree)



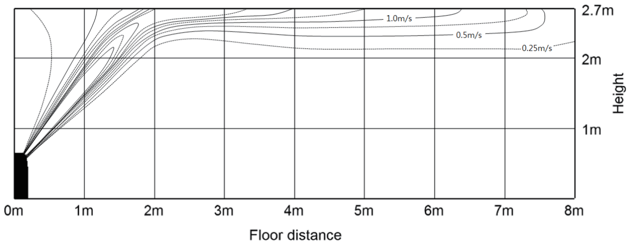
8. Temperature and air flow distribution

Ceiling (Floor Installation)

AC071MNCDKH/EU

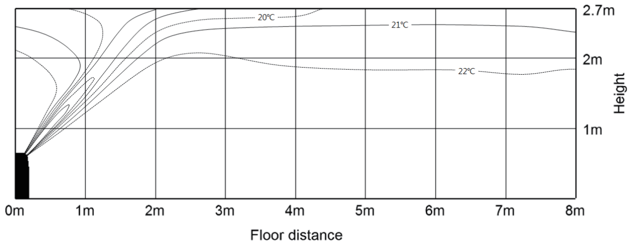
- Cooling Air Velocity distribution

  (Discharge angle : 50 degree)



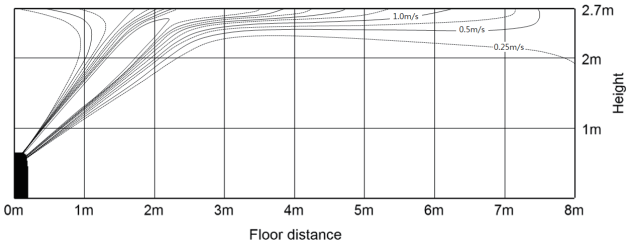
- Cooling temperature distribution

  (Discharge angle : 50 degree)



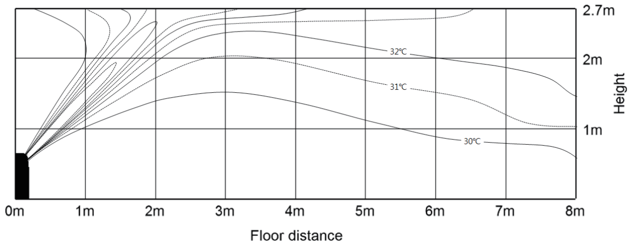
- Heating Air Velocity distribution

  (Discharge angle : 40 degree)



- Heating temperature distribution

  (Discharge angle : 40 degree)



Big Ceiling

Features & Benefits

Ceiling Type (large capacity) - Powerful cooling with a long distance wind

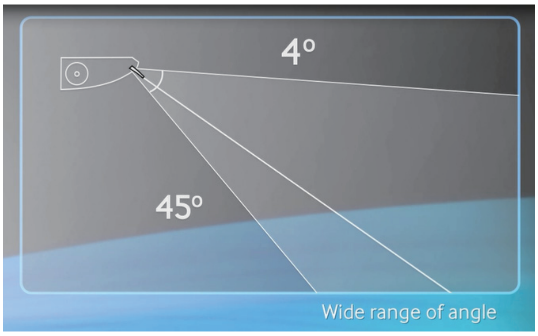
Combine simple neat and innovated technologies to experience superior performance and easy operation

Samsung has been rewriting product descriptions beyond the industry standards. As one of such company's product, Samsung Ceiling focused on sending "sufficient" amount of conditioned air to "distant" places to cover huge area. For convenient installations and maintenances, the Ceiling concentrated service direction on one side. Do not get stressed with air conditioning. Just leave it to Samsung Ceiling.

Fast cooling, 15m air flow

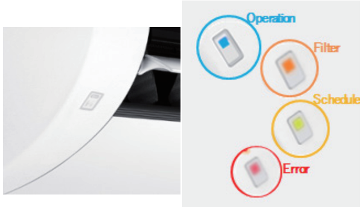
When users need air conditioning, they really need it quickly. While the ceiling applied latest flow-efficient blowers to increase amount of air it discharges, it also mounted single BLDC motor to reduce noises and possibilities of abrupt changes of modes. With increased size of inlet area and fluid dynamically designed inner passages, customers can experience incomparable cooling power.

Also, with the advanced blade, which can move from 40 to 450, Samsung ceiling type can refreshingly cool air that reaches every corner of the room with no blind spots.



Simple display

The simple display design with its rounded corners adds a neat and tidy feeling to your interior.



- Ice Blue : Operating
- Yellow Green : Schedule
- Red : Error
- Orange : Filter Alarm
  Time Limit + Operating Pattern

Single side installation

Due to difficulties in accessing their installed locations, easiness to maintain ceiling indoor units should be considered seriously. Relatively thin width of the product makes locating all service ports at one side difficult. However, for better customer experience, Samsung challenged to this difficulty.

1. Specification

Big Ceiling

System	Model Name	Indoor Unit			AC100MNCDKH/EU	AC100MNCDKH/EU	AC120MNCDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.00 / 10.00 / 12.00	3.00 / 10.00 / 12.00	3.50 / 12.00 / 13.50
				Btu/h	10,200 / 34,100 / 40,900	10,200 / 34,100 / 40,900	11,900 / 40,900 / 46,100
			Heating (Min/Std/Max)	kW	2.20 / 11.20 / 15.50	2.20 / 11.20 / 15.50	3.80 / 13.00 / 16.50
				Btu/h	7,500 / 38,200 / 52,900	7,500 / 38,200 / 52,900	13,000 / 44,400 / 56,300
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.60 / 3.40 / 4.70	0.60 / 3.40 / 4.70	0.90 / 4.60 / 5.50
			Heating (Min/Std/Max)	kW	0.46 / 3.20 / 5.40	0.46 / 3.20 / 5.40	0.70 / 3.80 / 5.60
		Current Input	Cooling (Min/Std/Max)	A	3.00 / 14.60 / 20.40	1.50 / 5.30 / 7.10	5.10 / 20.40 / 23.50
			Heating (Min/Std/Max)	A	2.50 / 14.20 / 23.00	1.20 / 4.90 / 8.40	3.90 / 17.10 / 22.80
		Current	MCA	A	26	18.1	26
			MFA	A	30	18.1	30
	Efficiency	EER	Cooling	W/W	2.94	2.94	2.61
		COP	Heating	W/W	3.50	3.50	3.42
		SEER (Cooling Energy Grade)		W/W	5.8 (A+)	5.8 (A+)	5.7 (A+)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	4.1 (A+)
		Pdesignh		kW	5.2	5.2	7.4
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	50	50
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.0 / 6.26	3.0 / 6.26

1. Specification

Big Ceiling

Indoor Unit	Model Name	Indoor Unit			AC100MNCDKH/EU	AC100MNCDKH/EU	AC120MNCDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	4	4	4
		Air Flow Rate	High/Mid/Low	CMM	26.0 / 23.0 / 19.0	26.0 / 23.0 / 19.0	30.0 / 24.0 / 20.0
				l/s	433.3 / 383.3 / 316.7	433.3 / 383.3 / 316.7	500.0 / 400.0 / 333.3
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	40 x 1	40 x 1	40 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	42 / 38 / 34	42 / 38 / 34	44 / 41 / 37
		Sound Power Level		dB(A)	60	60	62
	External Dimension	Net Weight		kg	41.4	41.4	41.4
		Shipping Weight		kg	48	48	48
		Net Dimensions (WxHxD)		mm	1650 x 235 x 675	1650 x 235 x 675	1650 x 235 x 675
		Shipping Dimensions (WxHxD)		mm	1739 x 321 x 758	1739 x 321 x 758	1739 x 321 x 758
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

Big Ceiling

Outdoor Unit	Model Name	Indoor Unit			AC100MNCDKH/EU	AC100MNCDKH/EU	AC120MNCDKH/EU
		Outdoor Unit			AC100MXADKH/EU	AC100MXADNH/EU	AC120MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG8T300FUBJU	UG8T300FUCJU	UG5TK1450FJX
		Output		kW	2.82	2.82	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1200	1200	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	78	78
				l/s	1300	1300	1300
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
			Heating	dB(A)	54	54	56
		Sound Power Level		dB(A)	69	69	70
	External Dimension	Net Weight		kg	72	72	77
		Shipping Weight		kg	77	77	82
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1096 x 426	995 x 1096 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

1. Specification

Big Ceiling

System	Model Name	Indoor Unit			AC120MNCDKH/EU	AC140MNCDKH/EU	AC140MNCDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.50 / 12.00 / 13.50	3.50 / 13.40 / 15.50	3.50 / 13.40 / 15.50
				Btu/h	11,900 / 40,900 / 46,100	11,900 / 45,700 / 52,900	11,900 / 45,700 / 52,900
			Heating (Min/Std/Max)	kW	3.80 / 13.00 / 16.50	3.50 / 15.50 / 18.00	3.50 / 15.50 / 18.00
				Btu/h	13,000 / 44,400 / 56,300	11,900 / 52,900 / 61,400	11,900 / 52,900 / 61,400
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.90 / 4.55 / 5.50	0.80 / 4.45 / 6.44	0.80 / 4.45 / 7.90
			Heating (Min/Std/Max)	kW	0.70 / 3.80 / 5.90	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.90
		Current Input	Cooling (Min/Std/Max)	A	1.70 / 7.20 / 9.50	3.70 / 20.00 / 28.00	2.10 / 7.00 / 12.00
			Heating (Min/Std/Max)	A	1.50 / 5.90 / 9.10	3.50 / 19.50 / 32.00	1.90 / 7.00 / 12.00
		Current	MCA	A	18.1	34	18.1
			MFA	A	18.1	40	18.1
	Efficiency	EER	Cooling	W/W	2.64	3.01	3.01
		COP	Heating	W/W	3.42	3.41	3.41
		SEER (Cooling Energy Grade)		W/W	5.7 (A+)	3.0	3.0
		SCOP (Heating Energy Grade)		W/W	4.1 (A+)	3.4	3.4
		Pdesignh		kW	7.4	-	-
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	9.52
				Φ, inch	3/8	3/8	3/8
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection
				Φ, mm	15.88	15.88	15.88
				Φ, inch	5/8	5/8	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	m	50	75	75
			Elevation	m	30	30	30
			Chargeless	m	30	30	30
	Wiring connections	Power Source Wire		mm^2	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	3.0 / 6.26	3.4 / 7.10	3.4 / 7.10

1. Specification

Big Ceiling

Indoor Unit	Model Name	Indoor Unit			AC120MNCDKH/EU	AC140MNCDKH/EU	AC140MNCDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Quantity		EA	4	4	4
		Air Flow Rate	High/Mid/Low	CMM	30.0 / 24.0 / 20.0	34.0 / 27.0 / 23.0	34.0 / 27.0 / 23.0
				l/s	500.0 / 400.0 / 333.3	566.7 / 450.0 / 383.3	566.7 / 450.0 / 383.3
		External Static Pressure	Min/Std/Max	mmAq	-	-	-
				Pa	-	-	-
	Fan Motor	Output		W x n	244 x 1	244 x 1	244 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 41 / 37	46 / 42 / 38	46 / 42 / 38
		Sound Power Level		dB(A)	62	64	64
	External Dimension	Net Weight		kg	41.4	41.4	41.4
		Shipping Weight		kg	48	48	48
		Net Dimensions (WxHxD)		mm	1650 x 235 x 675	1650 x 235 x 675	1650 x 235 x 675
		Shipping Dimensions (WxHxD)		mm	1739 x 321 x 758	1739 x 321 x 758	1739 x 321 x 758
	Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-	-
			Internal Model	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	Option	Option	Option

1. Specification

Big Ceiling

Outdoor Unit	Model Name	Indoor Unit			AC120MNCDKH/EU	AC140MNCDKH/EU	AC140MNCDKH/EU
		Outdoor Unit			AC120MXADNH/EU	AC140MXADKH/EU	AC140MXADNH/EU
	Power Supply			Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UG5TK1450FJX	UG5TK1450FJX	UG5TK1450FJX
		Output		kW	4.19	4.19	4.19
		Oil	Type	-	PVE	PVE	PVE
			Initial charge	cc	1700	1700	1700
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		CMM	78	111	111
				l/s	1300	1850	1850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
			Heating	dB(A)	56	54	54
		Sound Power Level		dB(A)	70	69	69
	External Dimension	Net Weight		kg	77	87	87
		Shipping Weight		kg	82	97	97
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1210 x 330	940 x 1210 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1096 x 426	995 x 1388 x 426	995 x 1388 x 426
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

Big Ceiling

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC100MNCDKH/EU	41.4	Max.	12.0	15.5	High	26.0 / 26.0	42	60
		Std.	10.0	11.2	Mid	23.0 / 23.0	38	-
		Min.	3.0	2.2	Low	19.0 / 19.0	34	-
AC120MNCDKH/EU	41.4	Max.	13.5	16.5	High	30.0 / 32.0	44	62
		Std.	12.0	13.0	Mid	24.0 / 26.0	41	-
		Min.	3.5	3.8	Low	20.0 / 22.0	37	-
AC140MNCDKH/EU	41.4	Max.	15.5	18.0	High	34.0 / 34.0	46	64
		Std.	13.4	15.5	Mid	27.0 / 27.0	42	-
		Min.	3.5	3.5	Low	23.0 / 23.0	38	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC100MNCDKH/EU	AC100MXADKH/EU	50	220 to 240	198	264	24	24	2.0	26	26	30
AC100MNCDKH/EU	AC100MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.0	18.1	18.1	18.1
AC120MNCDKH/EU	AC120MXADKH/EU	50	220 to 240	198	264	24	24	2.0	26	26	30
AC120MNCDKH/EU	AC120MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.0	18.1	18.1	18.1
AC140MNCDKH/EU	AC140MXADKH/EU	50	220 to 240	198	264	32	32	2.0	34	34	40
AC140MNCDKH/EU	AC140MXADNH/EU	50	380 to 415	342	456.5	16.1	16.1	2.0	18.1	18.1	18.1

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

Big Ceiling

(1) AC100MNCDKH/EU + AC100MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.55	2.43	10.27	7.78	2.48	10.69	8.02	2.53	11.03	8.27	2.58	11.25	8.19	2.61	11.81	8.10	2.64	12.40	7.94	2.69
21	9.29	7.19	2.56	9.78	7.41	2.61	10.19	7.64	2.67	10.50	7.88	2.72	10.71	7.80	2.75	11.25	7.72	2.77	11.81	7.56	2.83
35	8.85	6.85	3.20	9.31	7.06	3.27	9.70	7.28	3.33	10.00	7.50	3.40	10.20	7.43	3.43	10.71	7.35	3.47	11.25	7.20	3.54
46	7.52	6.67	2.88	7.92	6.88	2.94	8.25	7.09	3.00	8.50	7.31	3.06	8.67	7.24	3.09	9.10	7.16	3.12	9.56	7.02	3.18
50	5.75	5.34	2.56	6.05	5.50	2.61	6.31	5.67	2.67	6.50	5.85	2.72	6.63	5.79	2.75	6.96	5.73	2.77	7.31	5.62	2.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.24	7.81	4.20	7.73	4.16	7.65	4.12	7.57	4.08	7.50	4.04
-15	9.94	4.90	9.84	4.85	9.74	4.80	9.65	4.75	9.55	4.70	9.45	4.66
-5	11.20	4.57	11.09	4.52	10.98	4.48	10.87	4.44	10.76	4.39	10.65	4.35
0	11.65	3.92	11.54	3.88	11.42	3.84	11.31	3.80	11.20	3.76	11.08	3.73
7	11.43	3.26	11.31	3.23	11.20	3.20	11.09	3.17	10.98	3.14	10.87	3.10
24	14.85	3.75	14.71	3.72	14.56	3.68	14.41	3.64	14.27	3.61	14.13	3.57

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Big Ceiling

(2) AC100MNCDKH/EU + AC100MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.75	7.55	2.43	10.27	7.78	2.48	10.69	8.02	2.53	11.03	8.27	2.58	11.25	8.19	2.61	11.81	8.10	2.64	12.40	7.94	2.69
21	9.29	7.19	2.56	9.78	7.41	2.61	10.19	7.64	2.67	10.50	7.88	2.72	10.71	7.80	2.75	11.25	7.72	2.77	11.81	7.56	2.83
35	8.85	6.85	3.20	9.31	7.06	3.27	9.70	7.28	3.33	10.00	7.50	3.40	10.20	7.43	3.43	10.71	7.35	3.47	11.25	7.20	3.54
46	7.52	6.67	2.88	7.92	6.88	2.94	8.25	7.09	3.00	8.50	7.31	3.06	8.67	7.24	3.09	9.10	7.16	3.12	9.56	7.02	3.18
50	5.75	5.34	2.56	6.05	5.50	2.61	6.31	5.67	2.67	6.50	5.85	2.72	6.63	5.79	2.75	6.96	5.73	2.77	7.31	5.62	2.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.88	4.24	7.81	4.20	7.73	4.16	7.65	4.12	7.57	4.08	7.50	4.04
-15	9.94	4.90	9.84	4.85	9.74	4.80	9.65	4.75	9.55	4.70	9.45	4.66
-5	11.20	4.57	11.09	4.52	10.98	4.48	10.87	4.44	10.76	4.39	10.65	4.35
0	11.65	3.92	11.54	3.88	11.42	3.84	11.31	3.80	11.20	3.76	11.08	3.73
7	11.43	3.26	11.31	3.23	11.20	3.20	11.09	3.17	10.98	3.14	10.87	3.10
24	14.85	3.75	14.71	3.72	14.56	3.68	14.41	3.64	14.27	3.61	14.13	3.57

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Big Ceiling

(3) AC120MNCDKH/EU + AC120MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	8.94	3.29	12.32	9.21	3.36	12.83	9.50	3.43	13.23	9.79	3.50	13.49	9.69	3.53	14.17	9.60	3.57	14.88	9.40	3.64
21	11.15	8.51	3.46	11.73	8.77	3.53	12.22	9.04	3.61	12.60	9.32	3.68	12.85	9.23	3.72	13.49	9.14	3.75	14.17	8.96	3.83
35	10.62	8.10	4.33	11.17	8.36	4.42	11.64	8.61	4.51	12.00	8.88	4.60	12.24	8.79	4.65	12.85	8.70	4.69	13.49	8.53	4.79
46	9.02	8.12	3.90	9.50	8.37	3.98	9.89	8.63	4.06	10.20	8.89	4.14	10.40	8.81	4.18	10.92	8.72	4.22	11.47	8.54	4.31
50	6.90	6.55	3.46	7.26	6.75	3.53	7.57	6.96	3.61	7.80	7.18	3.68	7.96	7.10	3.72	8.35	7.03	3.75	8.77	6.89	3.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.04	9.06	4.99	8.97	4.94	8.88	4.89	8.79	4.84	8.70	4.79
-15	11.54	5.81	11.42	5.76	11.31	5.70	11.20	5.64	11.08	5.59	10.97	5.53
-5	13.00	5.43	12.87	5.37	12.74	5.32	12.61	5.27	12.49	5.21	12.36	5.16
0	13.53	4.65	13.39	4.61	13.26	4.56	13.13	4.51	13.00	4.47	12.87	4.42
7	13.26	3.88	13.13	3.84	13.00	3.80	12.87	3.76	12.74	3.72	12.61	3.69
24	17.24	4.46	17.07	4.41	16.90	4.37	16.73	4.33	16.56	4.28	16.40	4.24

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Big Ceiling

(4) AC120MNCDKH/EU + AC120MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.70	9.18	3.25	12.32	9.46	3.32	12.83	9.75	3.39	13.23	10.05	3.46	13.49	9.95	3.49	14.17	9.85	3.53	14.88	9.66	3.60
21	11.15	8.74	3.43	11.73	9.01	3.50	12.22	9.29	3.57	12.60	9.58	3.64	12.85	9.48	3.68	13.49	9.39	3.71	14.17	9.20	3.79
35	10.62	8.32	4.28	11.17	8.58	4.37	11.64	8.85	4.46	12.00	9.12	4.55	12.24	9.03	4.60	12.85	8.94	4.64	13.49	8.76	4.73
46	9.02	8.30	3.85	9.50	8.56	3.93	9.89	8.83	4.01	10.20	9.10	4.10	10.40	9.01	4.14	10.92	8.92	4.18	11.47	8.74	4.26
50	6.90	6.69	3.43	7.26	6.90	3.50	7.57	7.11	3.57	7.80	7.33	3.64	7.96	7.26	3.68	8.35	7.19	3.71	8.77	7.04	3.79

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.15	5.04	9.06	4.99	8.97	4.94	8.88	4.89	8.79	4.84	8.70	4.79
-15	11.54	5.81	11.42	5.76	11.31	5.70	11.20	5.64	11.08	5.59	10.97	5.53
-5	13.00	5.43	12.87	5.37	12.74	5.32	12.61	5.27	12.49	5.21	12.36	5.16
0	13.53	4.65	13.39	4.61	13.26	4.56	13.13	4.51	13.00	4.47	12.87	4.42
7	13.26	3.88	13.13	3.84	13.00	3.80	12.87	3.76	12.74	3.72	12.61	3.69
24	17.24	4.46	17.07	4.41	16.90	4.37	16.73	4.33	16.56	4.28	16.40	4.24

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Big Ceiling

(5) AC140MNCDKH/EU + AC140MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Big Ceiling

(6) AC140MNCDKH/EU + AC140MXADNH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.07	9.84	3.18	13.76	10.15	3.25	14.33	10.46	3.31	14.77	10.78	3.38	15.07	10.68	3.42	15.82	10.57	3.45	16.61	10.36	3.52
21	12.45	9.37	3.35	13.10	9.66	3.42	13.65	9.96	3.49	14.07	10.27	3.56	14.35	10.17	3.60	15.07	10.07	3.63	15.82	9.87	3.70
35	11.85	8.93	4.19	12.48	9.20	4.27	13.00	9.49	4.36	13.40	9.78	4.45	13.67	9.68	4.49	14.35	9.59	4.54	15.07	9.40	4.63
46	10.08	8.73	3.77	10.61	9.00	3.85	11.05	9.28	3.92	11.39	9.57	4.01	11.62	9.47	4.05	12.20	9.38	4.09	12.81	9.19	4.17
50	7.71	7.00	3.35	8.11	7.21	3.42	8.45	7.43	3.49	8.71	7.66	3.56	8.88	7.59	3.60	9.33	7.51	3.63	9.79	7.36	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.91	6.02	10.80	5.96	10.70	5.90	10.59	5.84	10.48	5.78	10.38	5.73
-15	13.76	6.95	13.62	6.88	13.49	6.81	13.35	6.74	13.22	6.67	13.08	6.61
-5	15.50	6.48	15.34	6.42	15.19	6.36	15.04	6.29	14.89	6.23	14.74	6.17
0	16.13	5.56	15.97	5.50	15.81	5.45	15.65	5.39	15.50	5.34	15.34	5.29
7	15.81	4.63	15.66	4.59	15.50	4.54	15.35	4.49	15.19	4.45	15.04	4.41
24	20.56	5.33	20.35	5.27	20.15	5.22	19.95	5.17	19.75	5.12	19.55	5.07

NOTE

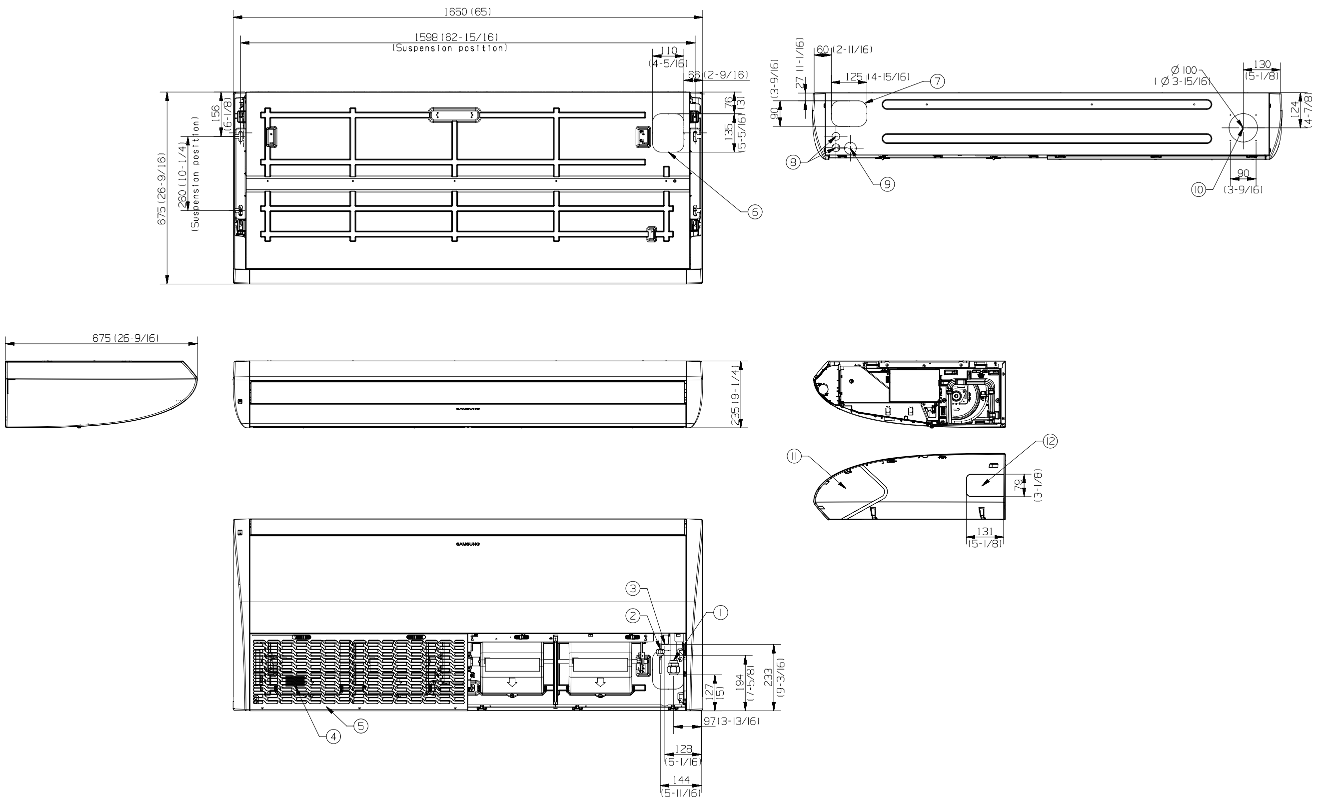
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

Big Ceiling

AC100/120/140MNCDKH/EU

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Air filter	
5	Air suction grille	
6	Knockout hole for piping (upper)	
7	Knockout hole for piping (rear)	
8	Conduit Hole	Φ28 [1-1/8]
9	Knockout hole for drain hose	Φ42 [1-5/16]
10	Knockout hole for Fresh air intake	
11	Cover side	
12	Knockout hole for piping (side)	

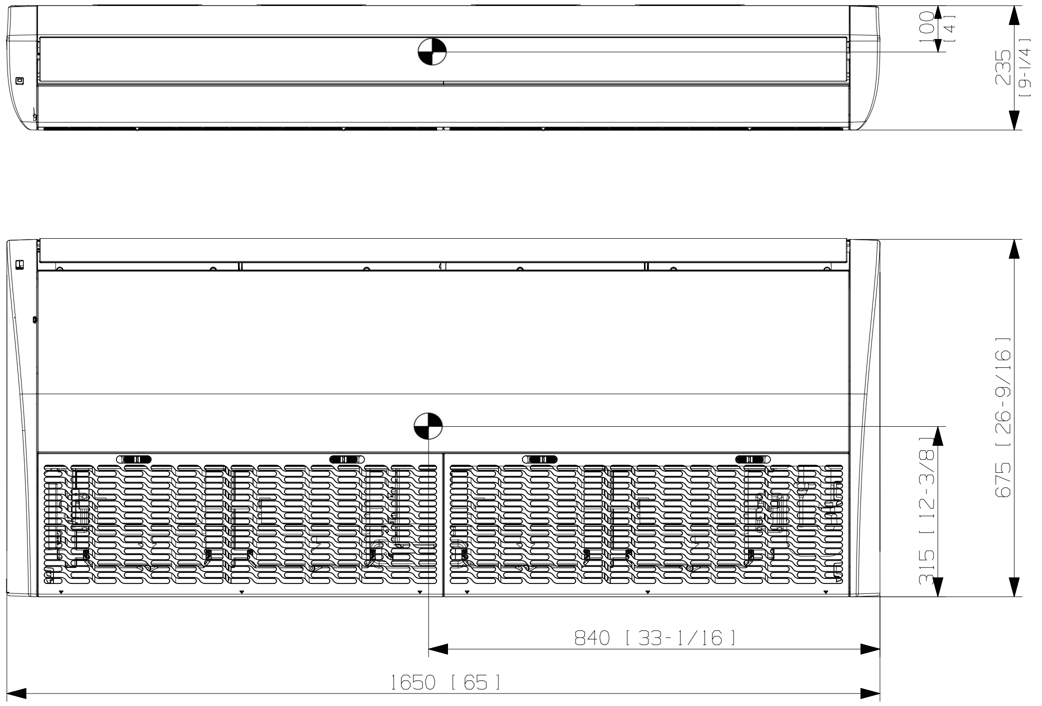
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

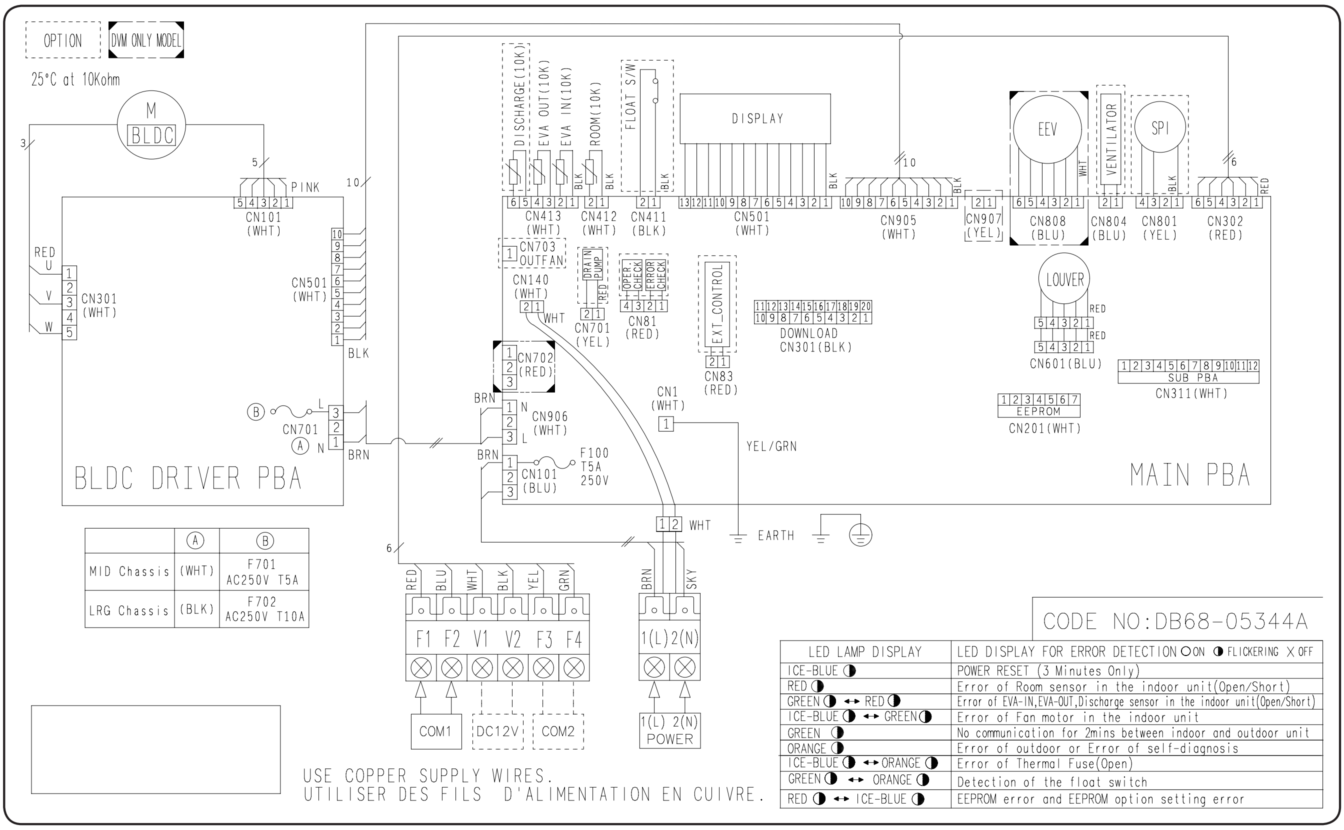
Big Ceiling

Units : mm [inches]



6. Electrical Wiring Diagram

Big Ceiling



	Ⓐ	Ⓑ
MID Chassis	(WHT)	F701 AC250V T5A
LRG Chassis	(BLK)	F702 AC250V T10A

USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

LED LAMP DISPLAY	LED DISPLAY FOR ERROR DETECTION ○ON ◑ FLICKERING X OFF
ICE-BLUE ◑	POWER RESET (3 Minutes Only)
RED ◑	Error of Room sensor in the indoor unit(Open/Short)
GREEN ◑ ↔ RED ◑	Error of EVA-IN,EVA-OUT,Discharge sensor in the indoor unit(Open/Short)
ICE-BLUE ◑ ↔ GREEN ◑	Error of Fan motor in the indoor unit
GREEN ◑	No communication for 2mins between indoor and outdoor unit
ORANGE ◑	Error of outdoor or Error of self-diagnosis
ICE-BLUE ◑ ↔ ORANGE ◑	Error of Thermal Fuse(Open)
GREEN ◑ ↔ ORANGE ◑	Detection of the float switch
RED ◑ ↔ ICE-BLUE ◑	EEPROM error and EEPROM option setting error

MAIN PBA	Printed Circuit Board(MAIN)	**SPI**	S-Plasma ion	**ROOM(10K)**	Thermistor ROOM OUT(10K)
BLDC DRIVER PBA	Printed Circuit Board(BLDC DRIVER)	**EEV**	Electronic Expansion Valve	**EVA-IN(10K)**	Thermistor EVA IN(10K)
SUB PBA	Printed Circuit Board(SUB)	**EXT_CONTROL**	EXTERNAL_CONTROL	**EVA-OUT(10K)**	Thermistor EVA OUT(10K)
M-BLDC	BLDC Motor			**DISCHARGE(10K)**	Thermistor DISCHARGE(10K)

NOTE

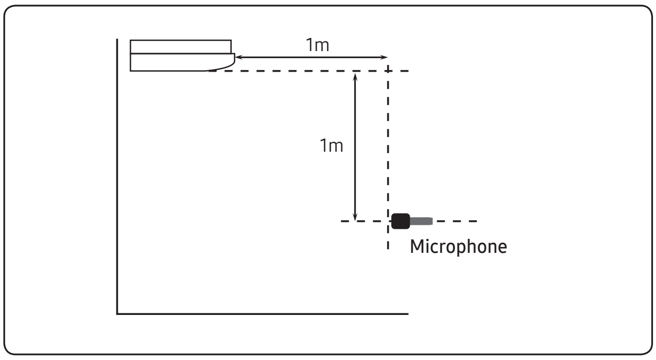
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭ : connector, N/ : The wire quantity

7. Sound Data

Big Ceiling

Sound Pressure level

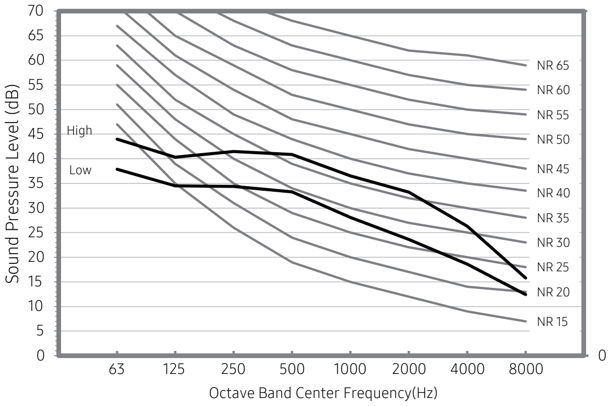
Unit: dB(A)



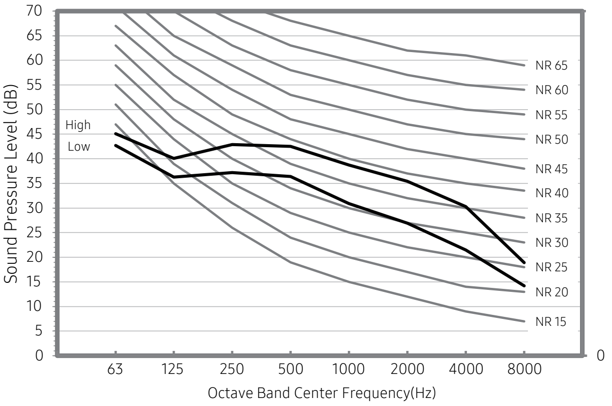
Model	Hi	MID	LOW
AC100MNCDKH/EU	42	38	34
AC120MNCDKH/EU	44	41	37
AC140MNCDKH/EU	46	42	38

- NR Curve

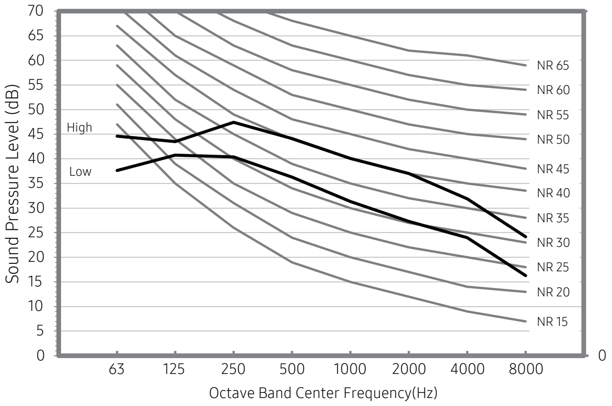
1) AC100MNCDKH/EU



2) AC120MNCDKH/EU



3) AC140MNCDKH/EU



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

7. Sound Data

Big Ceiling

Sound Power level

NOTE

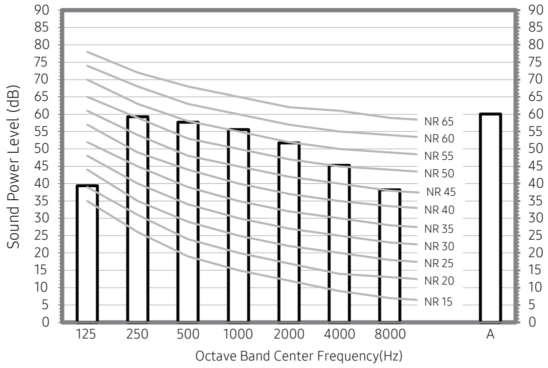
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

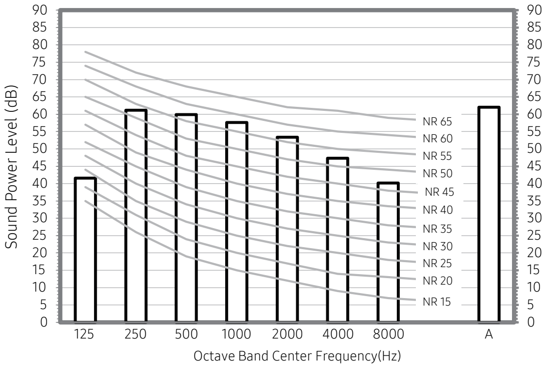
Model	Power
AC100MNCDKH/EU	60
AC120MNCDKH/EU	62
AC140MNCDKH/EU	64

- NR Curve

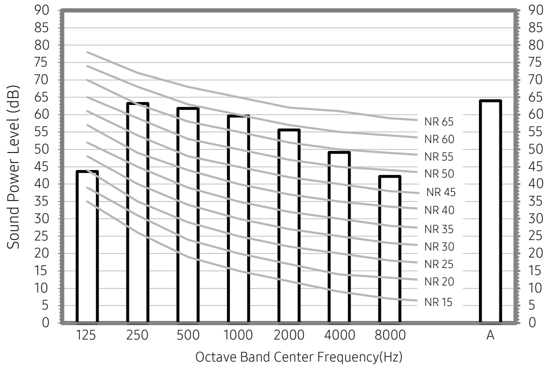
1) AC100MNCDKH/EU



2) AC120MNCDKH/EU



3) AC140MNCDKH/EU



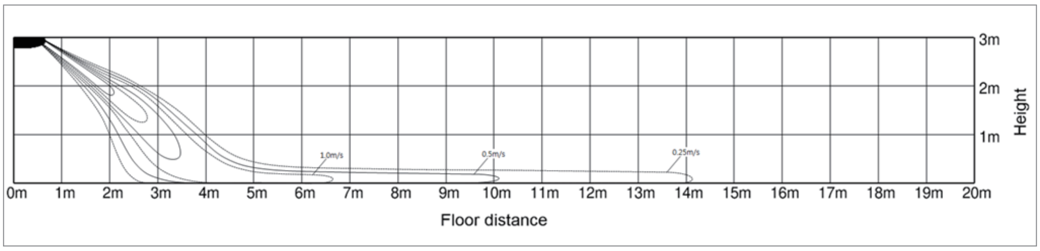
8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC100MNCDKH/EU

- Cooling Air Velocity distribution

(Discharge angle : 32 degree)



- Cooling temperature distribution

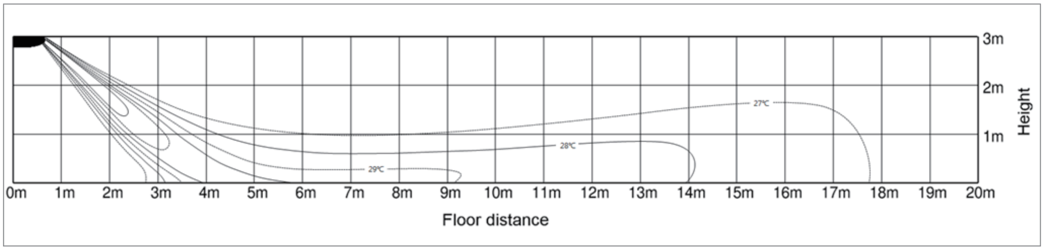
(Discharge angle : 32 degree)

- Heating Air Velocity distribution

(Discharge angle : 43 degree)

- Heating temperature distribution

(Discharge angle : 43 degree)



8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC120MNCDKH/EU

- Cooling Air Velocity distribution

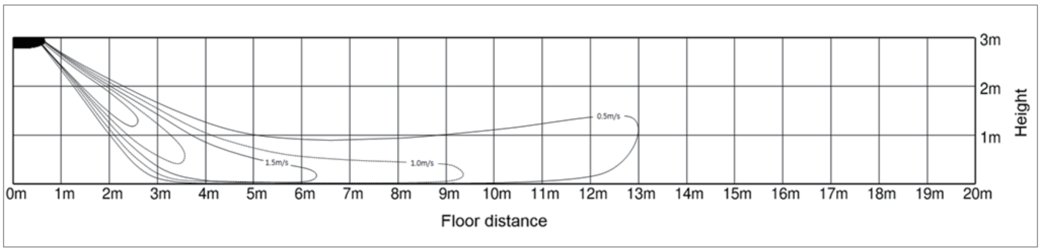
(Discharge angle : 32 degree)

- Cooling temperature distribution

(Discharge angle : 32 degree)

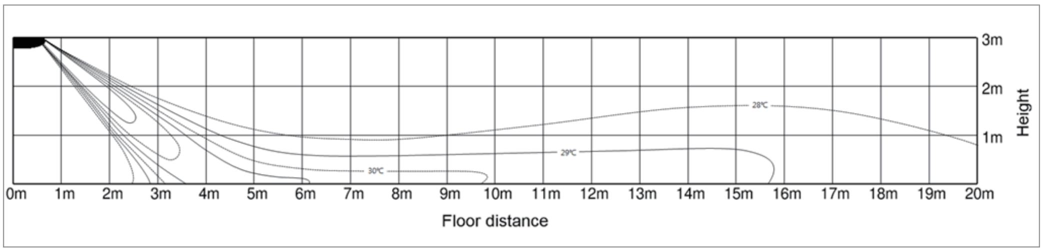
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



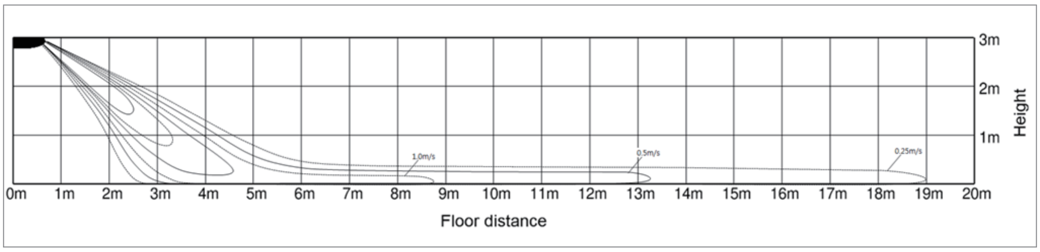
8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC140MNCDKH/EU

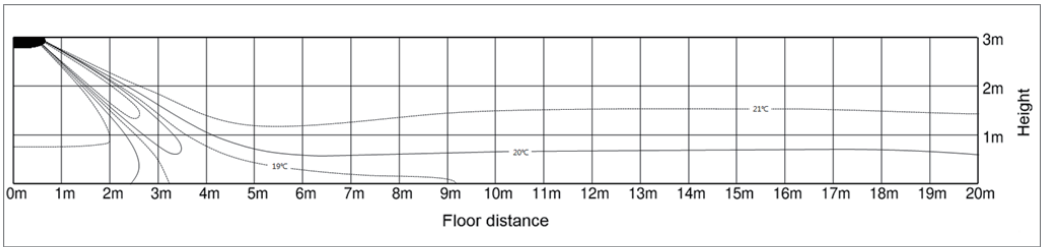
- Cooling Air Velocity distribution

(Discharge angle : 32 degree)



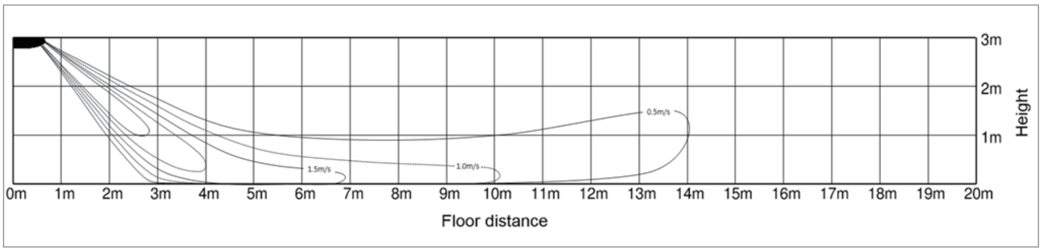
- Cooling temperature distribution

(Discharge angle : 32 degree)



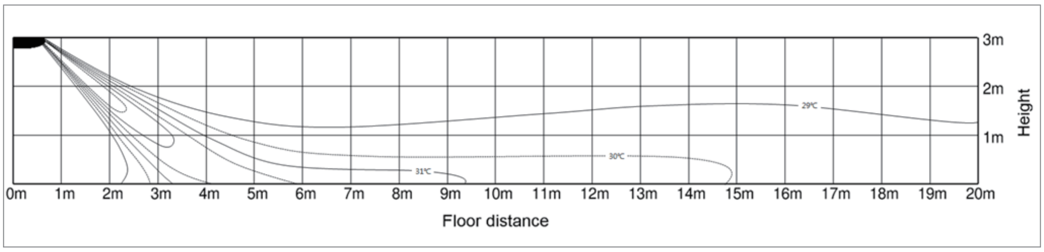
- Heating Air Velocity distribution

(Discharge angle : 43 degree)



- Heating temperature distribution

(Discharge angle : 43 degree)



Wall Mounted Type (A3050)

Features & Benefits

Wall Mount Type

Breathe easily with wall-mounted systems designed for all-day freshness

Samsung Wall Mount Type air conditioners have been designed from the ground up to be exceptionally efficient. With their stylish, innovative designs, these wall-mounted air conditioners optimize comfort with cool, clean, healthy freshness for everyday living.

Improved blade operation

Samsung's wide twin blade can open up to 90° for more effective cooling. The longer twin blade ensures that air reaches every corner of the room with greater control.

Superior dust filtration

A Full High Density (HD) filter creates cleaner air through enhanced filtration, reducing microscopic dust particles by up to 90 percent.

Cleaner, healthier air

Virus Doctor eliminates the harmful substances and viruses breeding in the atmosphere of living spaces, thus providing the highest level of indoor air quality. This smart solution creates a purified zone, eliminating the hazards of airborne allergens and controlling the active oxygen that contributes to disease, cancer and accelerated aging.

Good's sleep

Samsung's Wall Mount Type units feature Good'sleep mode for a comfortable bedroom climate perfectly tempered for a restful night. With automatic temperature and moisture adjustment, all three vital stages of sleep are protected from humidity and heat so users wake up fully rested and refreshed.

AR9000, 7000, 5000 Series - Triangular design, powerful cooling

Cool every corner of the room with a unique, efficiency-boosting design

Samsung AR9000, 7000, 5000 Series units are designed with efficiency in mind. Their uniquely triangular design improves performance to circulate cool, clean air throughout every inch of the room. In addition, their smart design includes easy-to-remove filters for easy management and healthier airflow.

Faster, farther cooling performance

The units' distinctive triangular design has a wider intake, so more air can be drawn in. The improved width and angle of the outlet, extra v-blades and bigger fan also ensure that air is cooled and expelled faster and farther. The result is refreshingly cool air that reaches every corner of the room—with no blind spots. Their Smart Inverter also provides significantly greater energy efficiency.

Easy-access maintenance

Unlike conventional filters that are often difficult to access, the Samsung wall-mounted unit filter is on the outside, at the top of the device. Easy access means users can take out the filter, clean it and put it back without having to open a cover or pull hard to get it out. And its antibacterial coating filters dust, dangerous airborne contaminants and allergens for healthier breathing.

1. Specification

Wall Mounted Type (A3050)

System	Model Name	Indoor Unit			AC026MNADKH/EU	AC035MNADKH/EU	AC052MNADKH/EU	AC071MNADKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.10 / 2.60 / 3.40	1.20 / 3.50 / 3.90	1.90 / 5.00 / 5.60	2.20 / 7.10 / 8.00
				Btu/h	3,800 / 8,900 / 11,600	4,100 / 11,900 / 13,300	6,500 / 17,100 / 19,100	7,500 / 24,200 / 27,300
			Heating (Min/Std/Max)	kW	1.00 / 3.30 / 4.00	1.10 / 4.00 / 4.70	1.50 / 6.00 / 6.25	1.90 / 8.00 / 9.00
				Btu/h	3,400 / 11,300 / 13,600	3,800 / 13,600 / 16,000	5,100 / 20,500 / 21,300	6,500 / 27,300 / 30,700
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.24 / 0.74 / 1.20	0.25 / 1.10 / 1.60	0.40 / 2.20 / 2.30	0.35 / 2.52 / 3.95
			Heating (Min/Std/Max)	kW	0.21 / 1.00 / 1.45	0.23 / 1.60 / 1.80	0.34 / 1.90 / 3.15	0.35 / 2.55 / 3.95
		Current Input	Cooling (Min/Std/Max)	A	1.70 / 4.10 / 5.50	1.60 / 5.60 / 7.50	2.60 / 9.70 / 10.10	2.00 / 11.20 / 17.00
			Heating (Min/Std/Max)	A	1.40 / 5.00 / 7.00	1.30 / 7.10 / 10.50	2.30 / 8.40 / 14.00	2.00 / 11.30 / 17.00
		Current	MCA	A	11.6	11.6	21.6	21.6
			MFA	A	12.8	12.8	25	25
	Efficiency	EER	Cooling	W/W	3.51	3.18	2.27	2.82
		COP	Heating	W/W	3.30	2.50	3.16	3.14
		SEER (Cooling Energy Grade)		W/W	6.4 (A++)	6.3 (A++)	6.2 (A++)	6.3 (A++)
		SCOP (Heating Energy Grade)		W/W	4.0 (A+)	4.0 (A+)	3.8 (A)	4.0 (A+)
		Pdesignh		kW	2	2	2.4	3.6
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
				Φ, mm	6.35	6.35	6.35	6.35
				Φ, inch	1/4	1/4	1/4	1/4
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
				Φ, mm	9.52	9.52	12.7	15.88
				Φ, inch	3/8	3/8	1/2	5/8
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5	5	5
			Max.	m	20	20	30	50
			Elevation	m	15	15	20	30
			Chargeless	m	20	20	5	5
	Wiring connections	Power Source Wire		mm^2	-	-	-	-
		Transmission Cable		mm^2	Min. 0.75	Min. 0.75	Min. 0.75	Min. 0.75
		Remark		-	F1, F2	F1, F2	F1, F2	F1, F2
		Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Refrigerant	Type		-	R410A	R410A	R410A	R410A
		Factory Charging		kg / tCO_2e	1.05 / 2.19	1.05 / 2.19	1.3 / 2.71	1.5 / 3.13

1. Specification

Wall Mounted Type (A3050)

Indoor Unit	Model Name	Indoor Unit			AC026MNADKH/EU	AC035MNADKH/EU	AC052MNADKH/EU	AC071MNADKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Quantity		EA	1	1	1	1
		Air Flow Rate	High/Mid/Low	CMM	7.7 / 6.2 / 5.0	8.5 / 7.2 / 5.8	10.7 / 9.0 / 7.2	17.1 / 14.5 / 12.4
				l/s	128.3 / 103.3 / 83.3	141.7 / 120.0 / 96.7	178.3 / 150.0 / 120.0	285.0 / 241.7 / 206.7
		External Static Pressure	Min/Std/Max	mmAq	-	-	-	-
				Pa	-	-	-	-
	Fan Motor	Output		W x n	27 x 1	27 x 1	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose	ID18mm Hose
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 30 / 24 / 18	38 / 32 / 26 / 20	42 / 37 / 32 / 25	43 / 39 / 35 / 30
		Sound Power Level		dB(A)	56	59	60	61
	External Dimension	Net Weight		kg	7.6	7.6	10.8	14.4
		Shipping Weight		kg	9	9	12.6	16.8
		Net Dimensions (WxHxD)		mm	750 x 249 x 246	750 x 249 x 246	896 x 261 x 261	1065 x 301 x 294
		Shipping Dimensions (WxHxD)		mm	800 x 298 x 302	800 x 298 x 302	956 x 317 x 335	1123 x 354 x 384
	Casing	Material		-	ABS	ABS	ABS	ABS
	Control System	Infrared remote control		-	MR-EH00	MR-EH00	MR-EH00	MR-EH00
	Control System	Wired remote control		-	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N	MWR-WE10N / MWR-WE11N
	Drain Pump	Drain Pump		-	-	-	-	-
		Max. lifting Height / Displacement		mm / Liter/h	-	-	-	-
	Additional Accessories	Drain Pump	External Model	-	-	-	-	-
			Internal Model	-	-	-	-	-
			Max. lifting Height / Displacement	mm / Liter/h	-	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
		Virus Doctor		-	-	-	-	-

1. Specification

Wall Mounted Type (A3050)

Outdoor Unit	Model Name	Indoor Unit			AC026MNADKH/EU	AC035MNADKH/EU	AC052MNADKH/EU	AC071MNADKH/EU
		Outdoor Unit			AC026MXADKH/EU	AC035MXADKH/EU	AC052MXADKH/EU	AC071MXADKH/EU
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	FMC	FMC
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Al	Al
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Hybrid Coating	Hybrid Coating
	Compressor	Model Name			UG9AJ3090FER	UG9AJ3090FER	UG9TK3150FE4	UG4T200FUAE4
		Output		kW	0.83	0.83	1.42	1.79
		Oil	Type	-	POE	POE	POE	POE
			Initial charge	cc	320	320	500	650
	Fan	Type		-	Propeller	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front	Front
		Quantity		EA	1	1	1	1
		Air Flow Rate		CMM	29	30	40	51
				l/s	483	500	667	850
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	68 x 1	68 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48	49
			Heating	dB(A)	47	48	48	51
		Sound Power Level		dB(A)	59	61	62	65
	External Dimension	Net Weight		kg	32.8	32.8	43.8	53
		Shipping Weight		kg	35.8	35.8	47.5	57.2
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	926 x 640 x 384	926 x 640 x 384	1023 x 730 x 413	1023 x 911 x 413
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range	Cooling		℃	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
		Heating		℃	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  Specification comply with EN14511.
  1) Capacities are based on (Equivalent refrigerant piping 5m, Level differences 0m);
     - Cooling : Indoor temperature 27°C DB, 19°C WB / Outdoor temperature 35°C DB, 24°C WB
     - Heating : Indoor temperature 20°C DB, 15°C WB / Outdoor temperature 7°C DB, 6°C WB
  2) Sound power level is an absolute value that a sound source generates.
     Sound power level is based on cooling operation.
     Sound pressure level is a relative value, depending on the distance and acoustic environment.
     Sound values are obtained in an anechoic room.
     Sound values of multi combination are theoretical values based on sound results of individual installed units.
  3) These products contain R410A(GWP=2,088) which is fluorinated greenhouse gas.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Summary Table

Wall Mounted Type (A3050)

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026MNADKH/EU	7.6	Max.	3.4	4.0	High	7.7 / 8.5	36	56
		Std.	2.6	3.3	Mid	6.2 / 7.2	30	-
		Min.	1.1	1.0	Low	5.0 / 5.8	24	-
AC035MNADKH/EU	7.6	Max.	3.9	4.7	High	8.5 / 8.5	38	59
		Std.	3.5	4.0	Mid	7.2 / 7.2	32	-
		Min.	1.2	1.1	Low	5.8 / 5.8	26	-
AC052MNADKH/EU	10.8	Max.	5.6	6.25	High	10.7 / 10.7	42	60
		Std.	5.0	6.0	Mid	9.0 / 9.0	37	-
		Min.	1.9	1.5	Low	7.2 / 7.2	32	-
AC071MNADKH/EU	14.4	Max.	8.0	9.0	High	17.1 / 17.1	43	61
		Std.	7.1	8.0	Mid	14.5 / 14.5	39	-
		Min.	2.2	1.9	Low	12.4 / 12.4	35	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026MNADKH/EU	AC026MXADKH/EU	50	220 to 240	198	264	10	10	1.6	11.6	11.6	12.8
AC035MNADKH/EU	AC035MXADKH/EU	50	220 to 240	198	264	10	10	1.6	11.6	11.6	12.8
AC052MNADKH/EU	AC052MXADKH/EU	50	220 to 240	198	264	20	20	1.6	21.6	21.6	25
AC071MNADKH/EU	AC071MXADKH/EU	50	220 to 240	198	264	20	20	1.6	21.6	21.6	25

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

Wall Mounted Type (A3050)

(1) AC026MNADKH/EU + AC026MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.54	2.17	0.53	2.67	2.24	0.54	2.78	2.31	0.55	2.87	2.38	0.56	2.92	2.36	0.57	3.07	2.33	0.57	3.22	2.29	0.59
21	2.42	2.07	0.56	2.54	2.13	0.57	2.65	2.20	0.58	2.73	2.27	0.59	2.78	2.24	0.60	2.92	2.22	0.60	3.07	2.18	0.62
35	2.30	1.97	0.70	2.42	2.03	0.71	2.52	2.09	0.73	2.60	2.16	0.74	2.65	2.14	0.75	2.78	2.12	0.75	2.92	2.07	0.77
46	1.96	1.82	0.63	2.06	1.88	0.64	2.14	1.94	0.65	2.21	2.00	0.67	2.25	1.98	0.67	2.37	1.96	0.68	2.49	1.92	0.69
50	1.50	1.43	0.56	1.57	1.48	0.57	1.64	1.52	0.58	1.69	1.57	0.59	1.72	1.56	0.60	1.81	1.54	0.60	1.90	1.51	0.62

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.32	1.33	2.30	1.31	2.28	1.30	2.25	1.29	2.23	1.27	2.21	1.26
-15	2.93	1.53	2.90	1.52	2.87	1.50	2.84	1.49	2.81	1.47	2.79	1.46
-5	3.30	1.43	3.27	1.41	3.23	1.40	3.20	1.39	3.17	1.37	3.14	1.36
0	3.43	1.22	3.40	1.21	3.37	1.20	3.33	1.19	3.30	1.18	3.27	1.16
7	3.37	1.02	3.33	1.01	3.30	1.00	3.27	0.99	3.23	0.98	3.20	0.97
24	4.38	1.17	4.33	1.16	4.29	1.15	4.25	1.14	4.20	1.13	4.16	1.12

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Wall Mounted Type (A3050)

(2) AC035MNADKH/EU + AC035MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.41	2.50	0.79	3.59	2.58	0.80	3.74	2.66	0.82	3.86	2.74	0.84	3.94	2.71	0.84	4.13	2.69	0.85	4.34	2.63	0.87
21	3.25	2.38	0.83	3.42	2.46	0.85	3.56	2.53	0.86	3.68	2.61	0.88	3.75	2.58	0.89	3.94	2.56	0.90	4.13	2.51	0.92
35	3.10	2.27	1.04	3.26	2.34	1.06	3.40	2.41	1.08	3.50	2.49	1.10	3.57	2.46	1.11	3.75	2.44	1.12	3.94	2.39	1.14
46	2.63	2.13	0.93	2.77	2.19	0.95	2.89	2.26	0.97	2.98	2.33	0.99	3.03	2.31	1.00	3.19	2.28	1.01	3.35	2.24	1.03
50	2.01	1.68	0.83	2.12	1.73	0.85	2.21	1.79	0.86	2.28	1.84	0.88	2.32	1.82	0.89	2.44	1.81	0.90	2.56	1.77	0.92

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.82	2.12	2.79	2.10	2.76	2.08	2.73	2.06	2.71	2.04	2.68	2.02
-15	3.55	2.45	3.51	2.42	3.48	2.40	3.45	2.38	3.41	2.35	3.38	2.33
-5	4.00	2.29	3.96	2.26	3.92	2.24	3.88	2.22	3.84	2.20	3.80	2.17
0	4.16	1.96	4.12	1.94	4.08	1.92	4.04	1.90	4.00	1.88	3.96	1.86
7	4.08	1.63	4.04	1.62	4.00	1.60	3.96	1.58	3.92	1.57	3.88	1.55
24	5.30	1.88	5.25	1.86	5.20	1.84	5.15	1.82	5.10	1.80	5.05	1.79

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Wall Mounted Type (A3050)

(3) AC052MNADKH/EU + AC052MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.88	3.82	1.57	5.13	3.94	1.61	5.35	4.06	1.64	5.51	4.19	1.67	5.62	4.15	1.69	5.90	4.11	1.71	6.20	4.02	1.74
21	4.64	3.64	1.66	4.89	3.75	1.69	5.09	3.87	1.72	5.25	3.99	1.76	5.36	3.95	1.78	5.62	3.91	1.80	5.90	3.83	1.83
35	4.42	3.47	2.07	4.66	3.58	2.11	4.85	3.69	2.16	5.00	3.80	2.20	5.10	3.76	2.22	5.36	3.72	2.24	5.62	3.65	2.29
46	3.76	3.23	1.86	3.96	3.33	1.90	4.12	3.44	1.94	4.25	3.54	1.98	4.34	3.51	2.00	4.55	3.47	2.02	4.78	3.40	2.06
50	2.88	2.55	1.66	3.03	2.63	1.69	3.15	2.71	1.72	3.25	2.80	1.76	3.32	2.77	1.78	3.48	2.74	1.80	3.65	2.68	1.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.22	2.52	4.18	2.49	4.14	2.47	4.10	2.45	4.06	2.42	4.02	2.40
-15	5.32	2.91	5.27	2.88	5.22	2.85	5.17	2.82	5.12	2.79	5.06	2.77
-5	6.00	2.71	5.94	2.69	5.88	2.66	5.82	2.63	5.76	2.61	5.71	2.58
0	6.24	2.33	6.18	2.30	6.12	2.28	6.06	2.26	6.00	2.23	5.94	2.21
7	6.12	1.94	6.06	1.92	6.00	1.90	5.94	1.88	5.88	1.86	5.82	1.84
24	7.96	2.23	7.88	2.21	7.80	2.19	7.72	2.16	7.64	2.14	7.57	2.12

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

3. Capacity Table

Wall Mounted Type (A3050)

(4) AC071MNADKH/EU + AC071MXADKH/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.92	4.93	1.80	7.29	5.08	1.84	7.59	5.24	1.88	7.83	5.40	1.92	7.98	5.35	1.93	8.38	5.29	1.95	8.80	5.19	1.99
21	6.59	4.69	1.90	6.94	4.84	1.94	7.23	4.99	1.98	7.46	5.14	2.02	7.60	5.09	2.04	7.98	5.04	2.06	8.38	4.94	2.10
35	6.28	4.47	2.37	6.61	4.61	2.42	6.89	4.75	2.47	7.10	4.90	2.52	7.24	4.85	2.55	7.60	4.80	2.57	7.98	4.71	2.62
46	5.34	4.37	2.13	5.62	4.50	2.18	5.85	4.64	2.22	6.04	4.78	2.27	6.16	4.74	2.29	6.46	4.69	2.31	6.79	4.59	2.36
50	4.08	3.50	1.90	4.30	3.60	1.94	4.48	3.72	1.98	4.62	3.83	2.02	4.71	3.79	2.04	4.94	3.75	2.06	5.19	3.68	2.10

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.63	3.38	5.58	3.35	5.52	3.32	5.46	3.28	5.41	3.25	5.36	3.22
-15	7.10	3.90	7.03	3.86	6.96	3.83	6.89	3.79	6.82	3.75	6.75	3.71
-5	8.00	3.64	7.92	3.61	7.84	3.57	7.76	3.53	7.68	3.50	7.61	3.46
0	8.32	3.12	8.24	3.09	8.16	3.06	8.08	3.03	8.00	3.00	7.92	2.97
7	8.16	2.60	8.08	2.58	8.00	2.55	7.92	2.52	7.84	2.50	7.76	2.47
24	10.61	2.99	10.50	2.96	10.40	2.93	10.30	2.90	10.19	2.87	10.09	2.85

NOTE

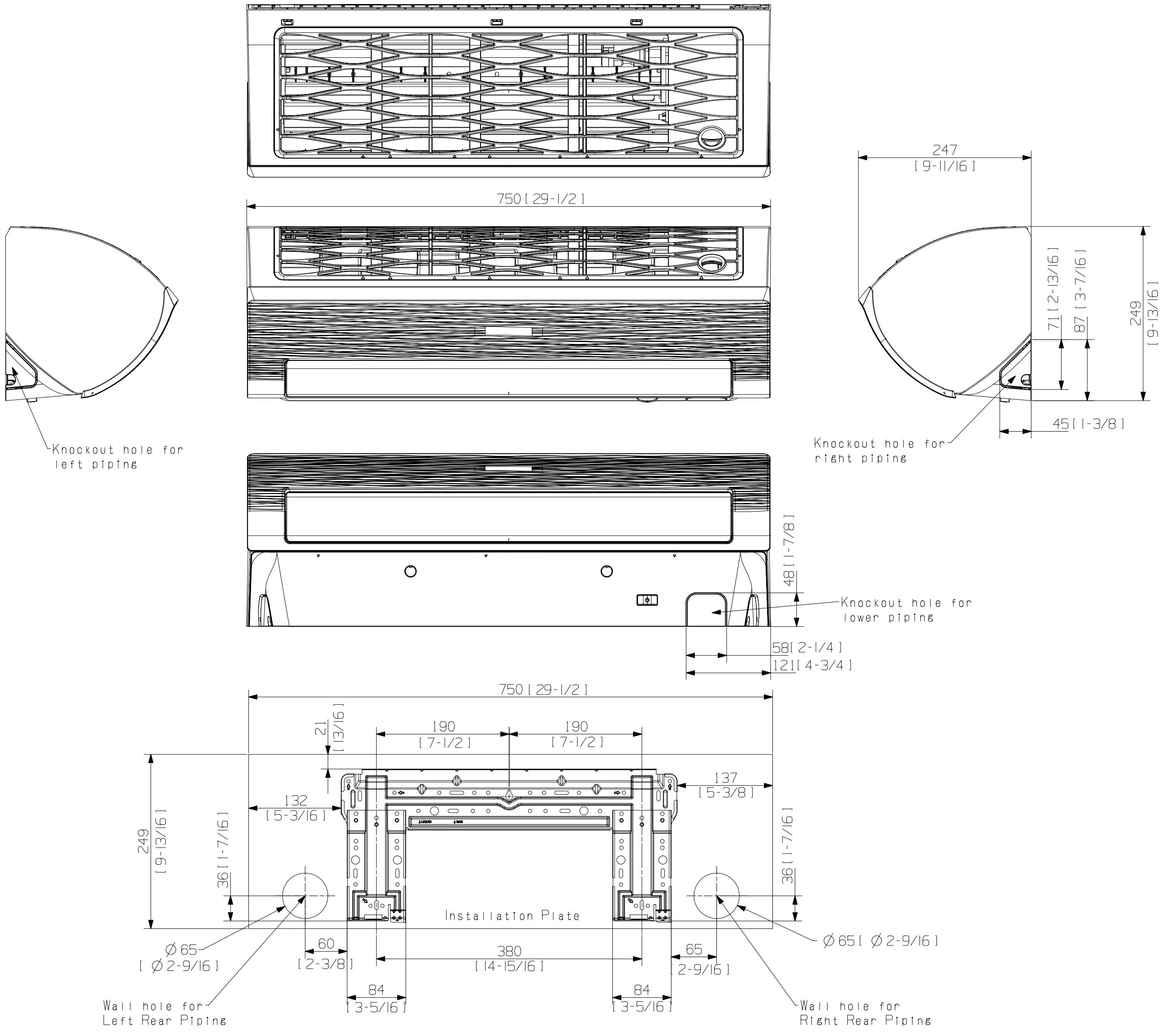
- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

4. Dimensional Drawing

Wall Mounted Type (A3050)

AC026/035MNADKH/EU

Units : mm [inches]

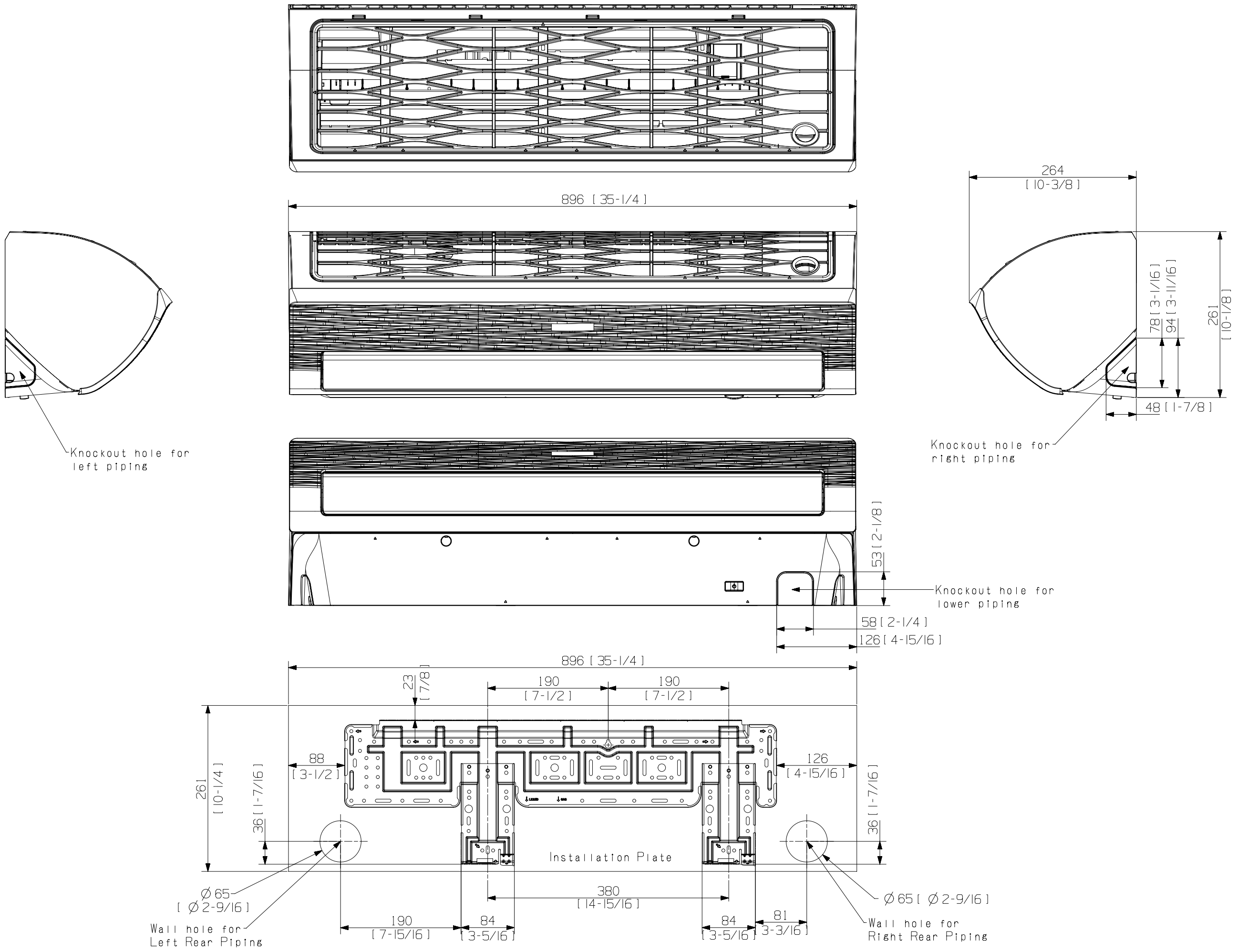


4. Dimensional Drawing

Wall Mounted Type (A3050)

AC052MNADKH/EU

Units : mm [inches]

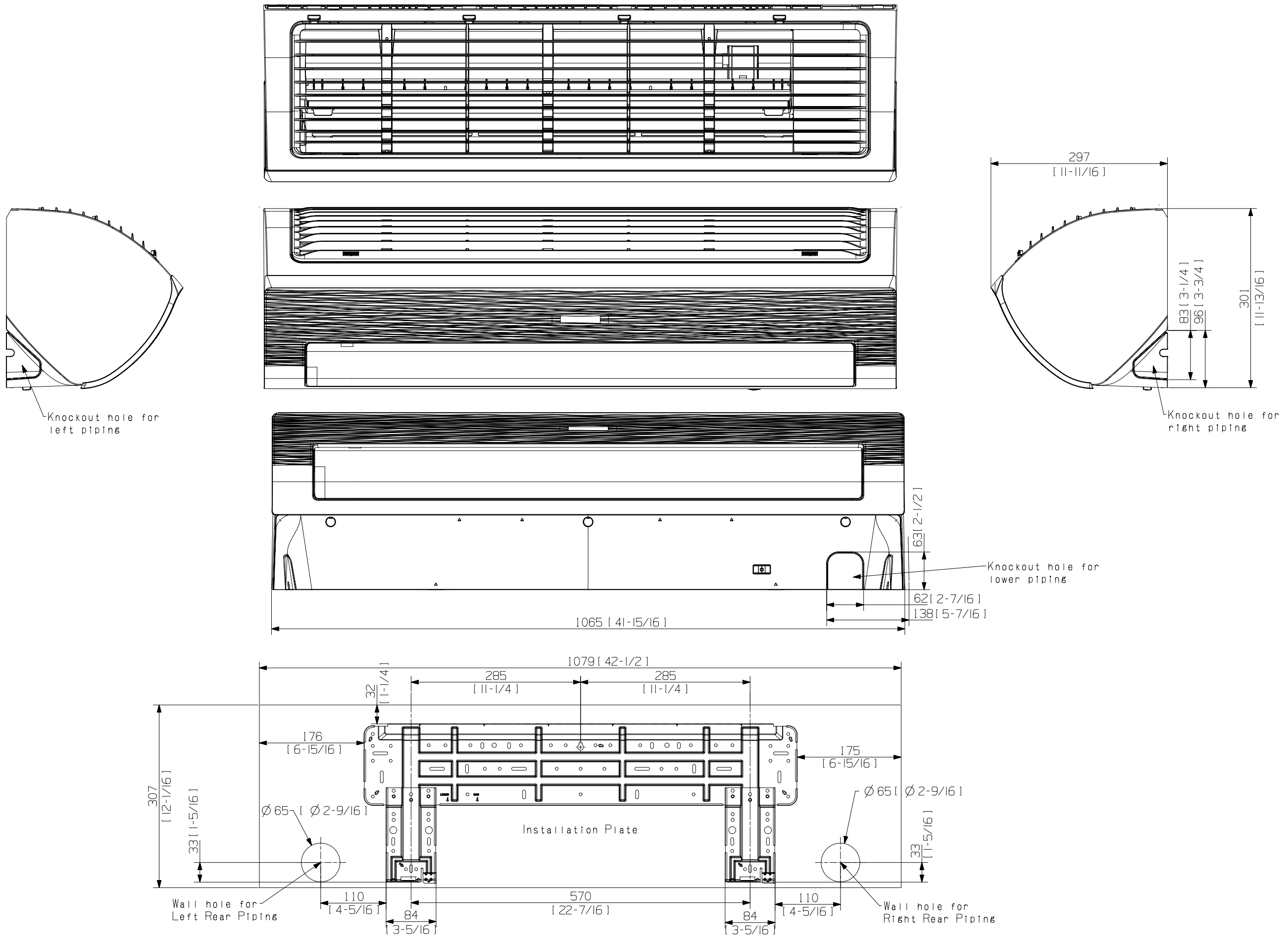


4. Dimensional Drawing

Wall Mounted Type (A3050)

AC071MNADKH/EU

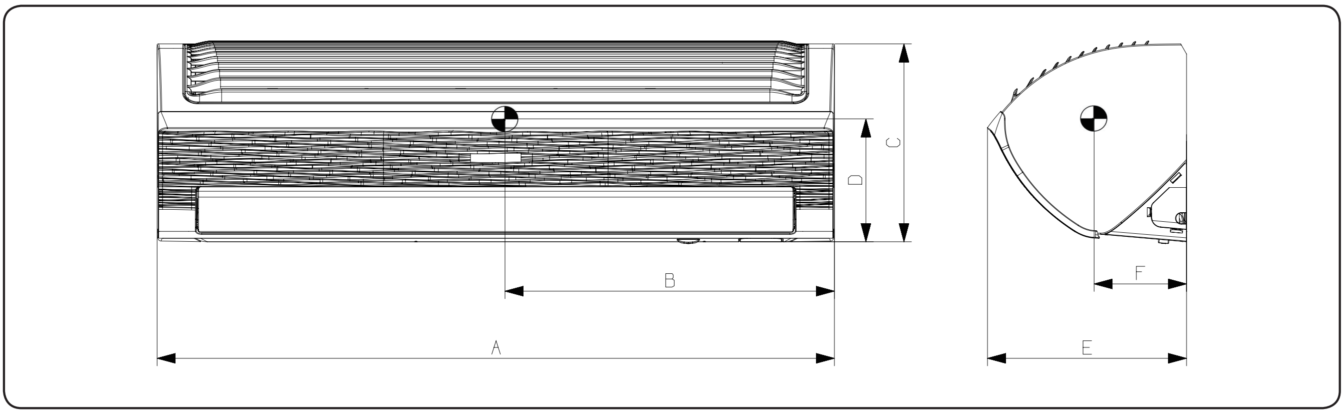
Units : mm [inches]



5. Center of Gravity

Wall Mounted Type (A3050)

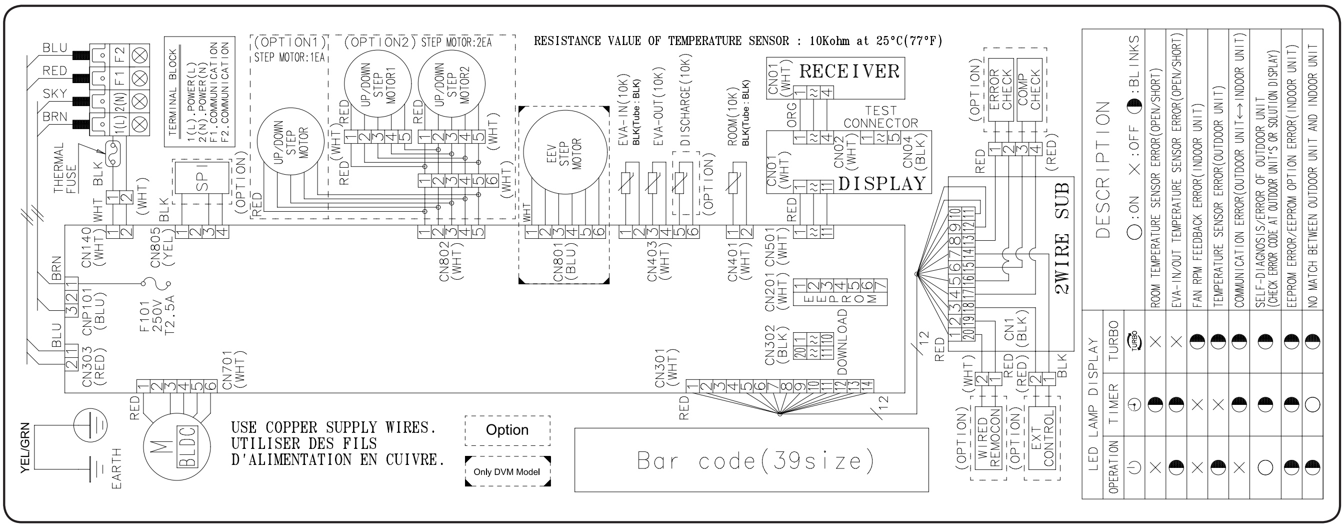
Units : mm [inches]



	A	B	C	D	E	F
~3.5kW	750 [29-1/2]	335 [13-3/16]	249 [9-13/16]	130 [5-1/8]	247 [9-11/16]	105 [4-1/8]
5.2kW	896 [35-1/4]	400 [15-3/4]	261 [10-1/4]	130 [5-1/8]	264 [10-3/8]	105 [4-1/8]
7.1kW	1065 [41-15/16]	470 [18-1/2]	307 [12-1/16]	130 [5-1/8]	297 [11-11/16]	105 [4-1/8]

6. Electrical Wiring Diagram

Wall Mounted Type (A3050)



2 WIRE SUB	Printed Circuit Board(2 WIRE SUB)	SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EEV STEP MOTOR	Electronic Expansion Valve(STEP MOTOR)	EVA-IN(10K)	Thermistor EVA IN(10K)
		EXT CONTROL	EXTERNAL_CONTROL	EVA-OUT(10K)	Thermistor EVA OUT(10K)
		WIRED REMOCON	Wired Remote Controller	DISCHARGE(10K)	Thermistor DISCHARGE(10K)

NOTE

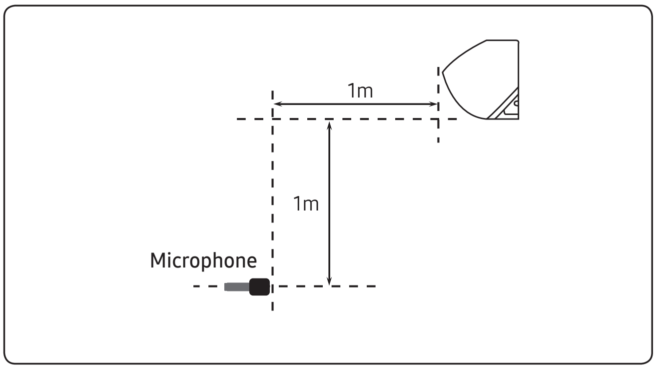
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N/ : The wire quantity

7. Sound Data

Wall Mounted Type (A3050)

Sound Pressure level

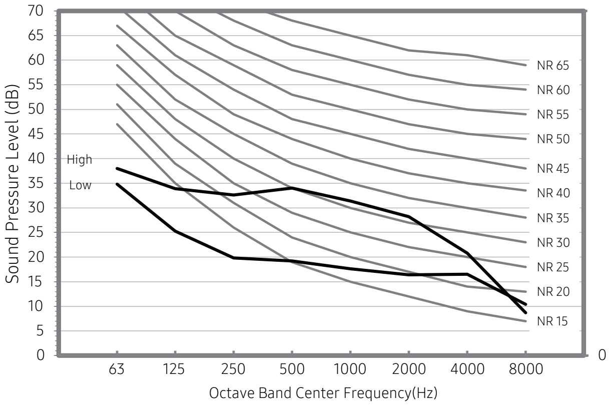
Unit: dB(A)



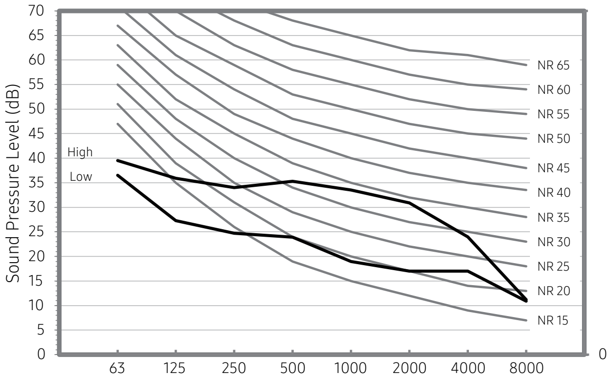
Model	Hi	MID	LOW
AC026MNADKH/EU	36	30	24
AC035MNADKH/EU	38	32	26
AC052MNADKH/EU	42	37	32
AC071MNADKH/EU	43	39	35

- NR Curve

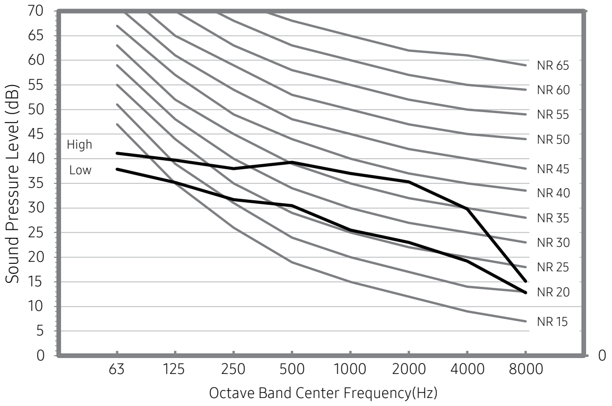
1) AC026MNADKH/EU



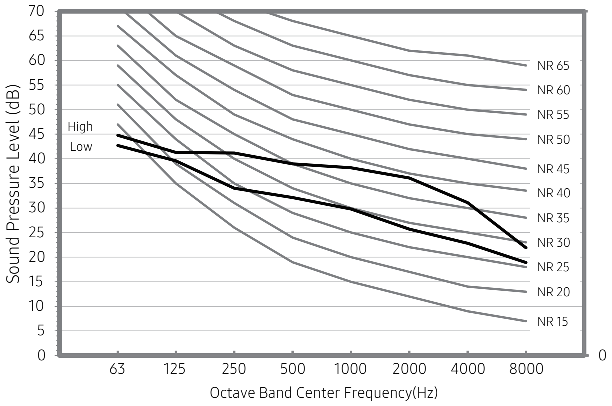
2) AC035MNADKH/EU



3) AC052MNADKH/EU



4) AC071MNADKH/EU



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

7. Sound Data

Wall Mounted Type (A3050)

Sound Power level

NOTE

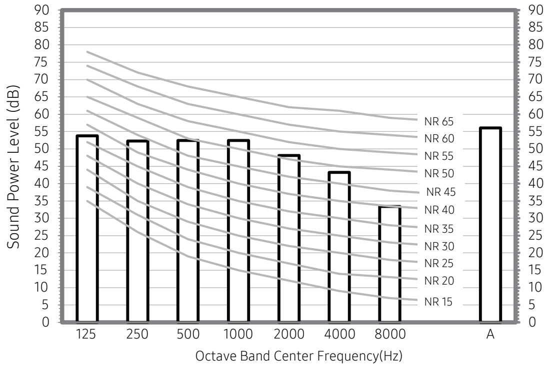
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

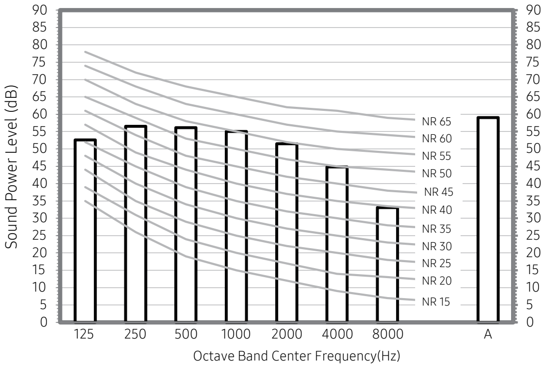
Model	Power
AC026MNADKH/EU	56
AC035MNADKH/EU	59
AC052MNADKH/EU	60
AC071MNADKH/EU	61

- NR Curve

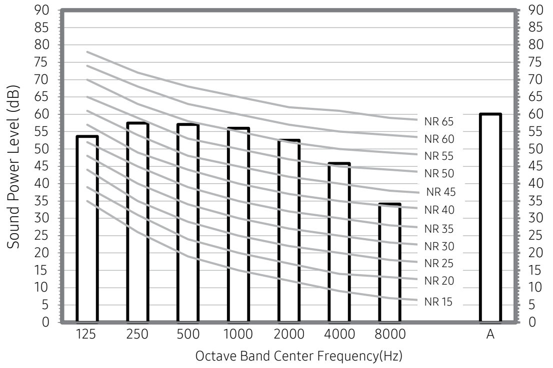
1) AC026MNADKH/EU



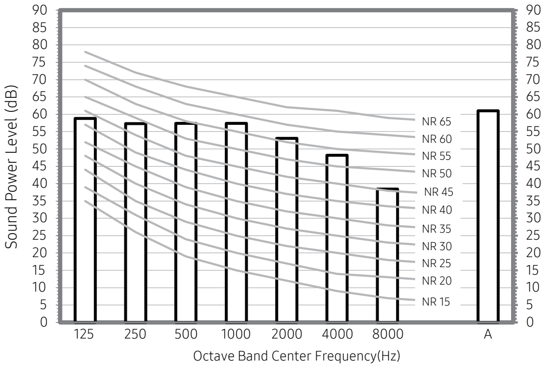
2) AC035MNADKH/EU



3) AC052MNADKH/EU



4) AC071MNADKH/EU



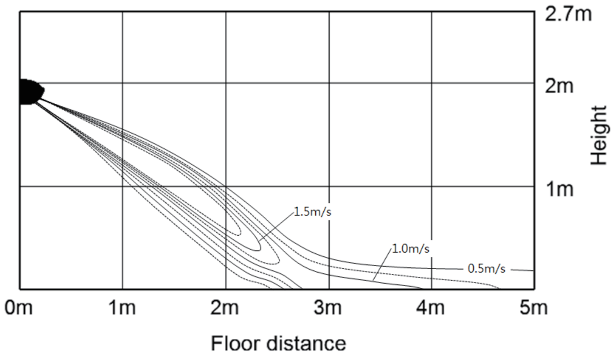
8. Temperature and air flow distribution

Wall Mounted Type (A3050)

AC026MNADKH/EU

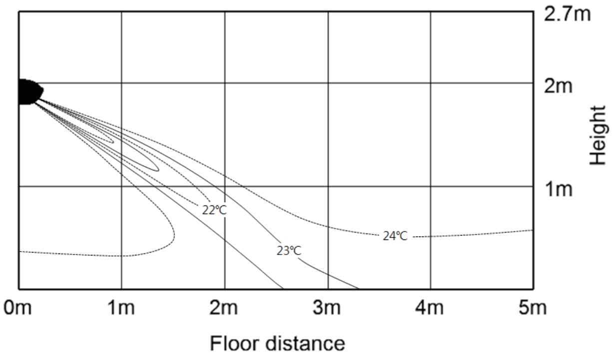
- Cooling Air Velocity distribution

(Discharge angle : 27 degree)



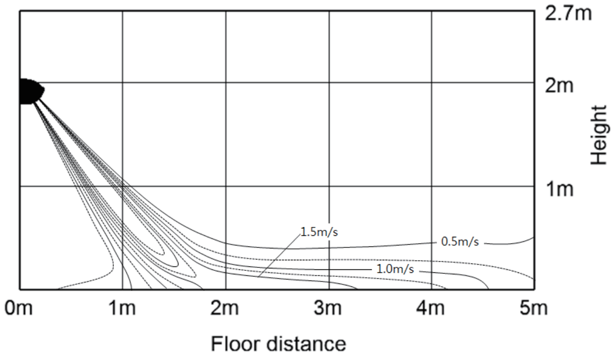
- Cooling temperature distribution

(Discharge angle : 27 degree)



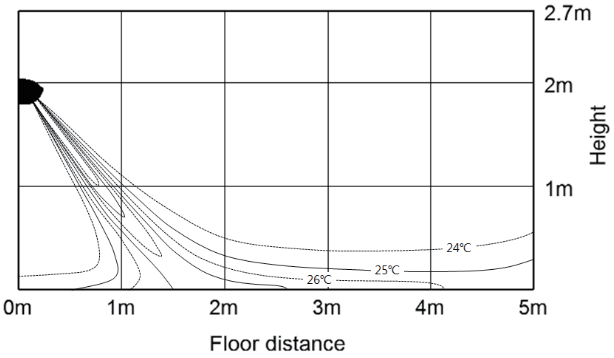
- Heating Air Velocity distribution

(Discharge angle : 53 degree)



- Heating temperature distribution

(Discharge angle : 53 degree)



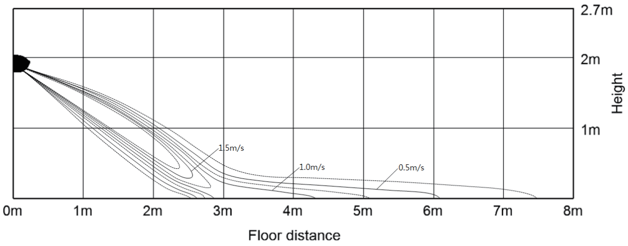
8. Temperature and air flow distribution

Wall Mounted Type (A3050)

AC035MNADKH/EU

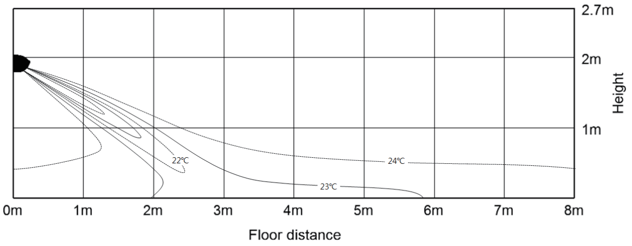
- Cooling Air Velocity distribution

  (Discharge angle : 27 degree)



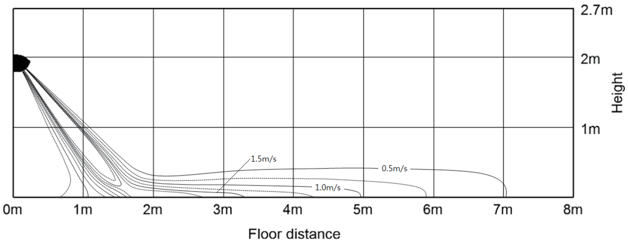
- Cooling temperature distribution

  (Discharge angle : 27 degree)



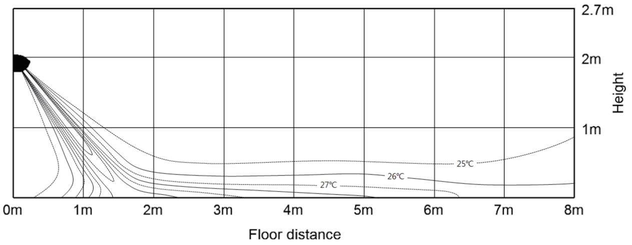
- Heating Air Velocity distribution

  (Discharge angle : 53 degree)



- Heating temperature distribution

  (Discharge angle : 53 degree)



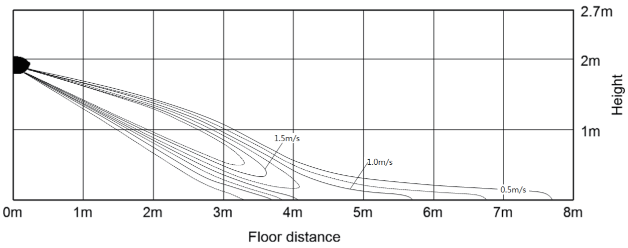
8. Temperature and air flow distribution

Wall Mounted Type (A3050)

AC052MNADKH/EU

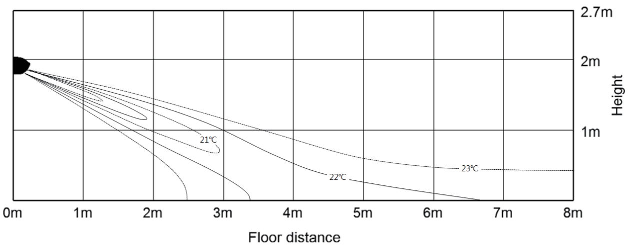
- Cooling Air Velocity distribution

(Discharge angle : 20 degree)



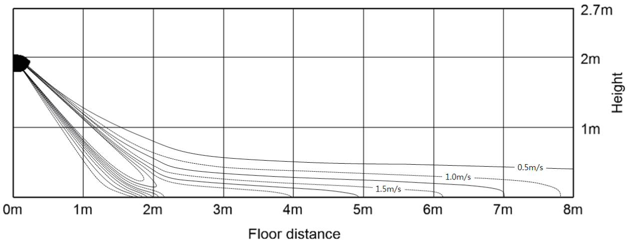
- Cooling temperature distribution

(Discharge angle : 20 degree)



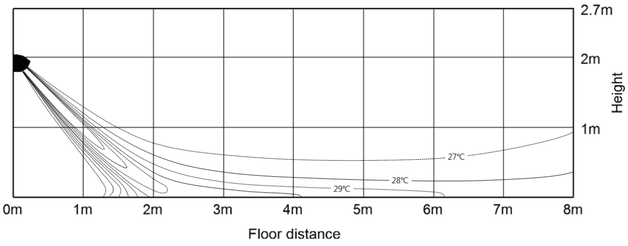
- Heating Air Velocity distribution

(Discharge angle : 46 degree)



- Heating temperature distribution

(Discharge angle : 46 degree)



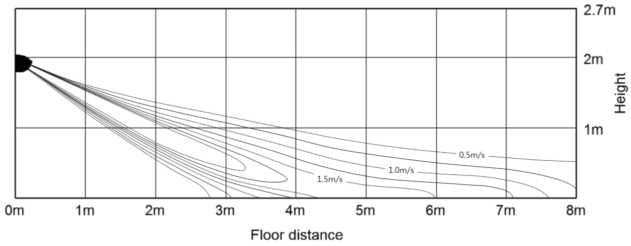
8. Temperature and air flow distribution

Wall Mounted Type (A3050)

AC071MNADKH/EU

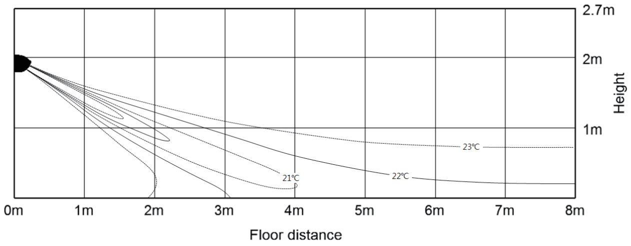
- Cooling Air Velocity distribution

(Discharge angle : 27 degree)



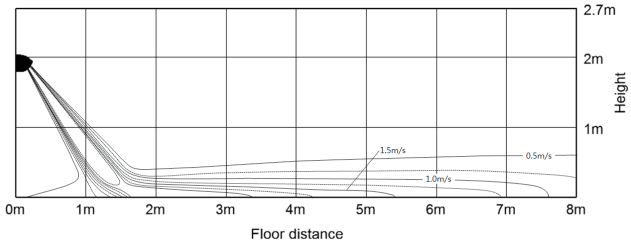
- Cooling temperature distribution

(Discharge angle : 27 degree)



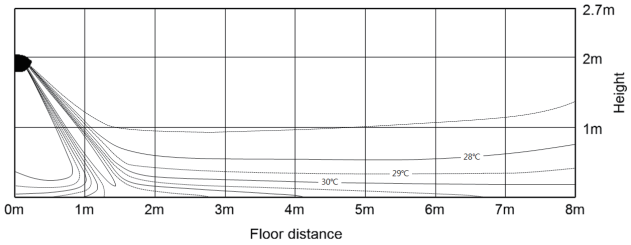
- Heating Air Velocity distribution

(Discharge angle : 53 degree)



- Heating temperature distribution

(Discharge angle : 53 degree)



Outdoor Units

1. Summary Table

Outdoor Units

Performance Characteristics

Capacity	Model Code	Net Size (WxHxD mm)	Net Weight (kg)	Airflow (CMM)	Sound Pressure Level (dBA)		Sound Power Level (dBA)
kW					Cooling	Heating	
2.6	AC026MXADKH	790 x 548 x 285	32.8	29	46	47	59
3.5	AC035MXADKH	790 x 548 x 285	32.8	30	48	48	61
5.2	AC052MXADKH	880 x 638 x 310	43.8	40	48	48	62
6	AC060MXADKH	880 x 638 x 310	43.8	40	49	49	62
7.1	AC071MXADKH	880 x 798 x 310	53	51	49	51	65
9	AC090MXADKH	940 x 998 x 330	72	78	52	53	68
9	AC090MXADNH	940 x 998 x 330	72	78	52	53	68
10	AC100MXADKH	940 x 998 x 330	72	78	52	54	69
10	AC100MXADNH	940 x 998 x 330	72	78	52	54	69
12	AC120MXADKH	940 x 998 x 330	77	78	54	56	70
12	AC120MXADNH	940 x 998 x 330	77	78	54	56	70
14	AC140MXADKH	940 x 1210 x 330	80	111	53	54	69
14	AC140MXADNH	940 x 1210 x 330	80	111	53	54	69

NOTE

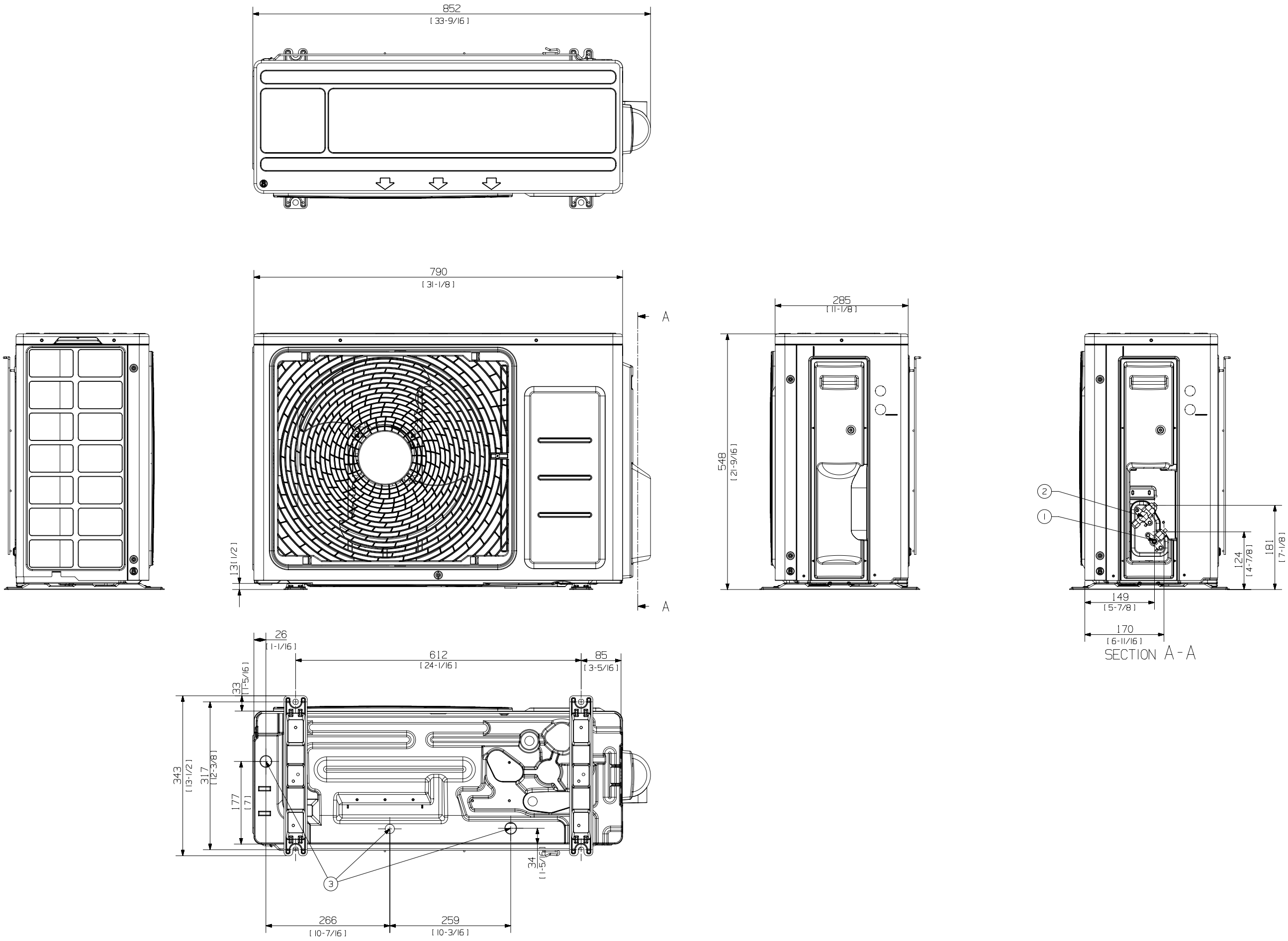
- Sound power level is based on cooling operation.

2. Dimensional Drawing

Outdoor Units

AC026/035MXADKH

Units : mm [inches]



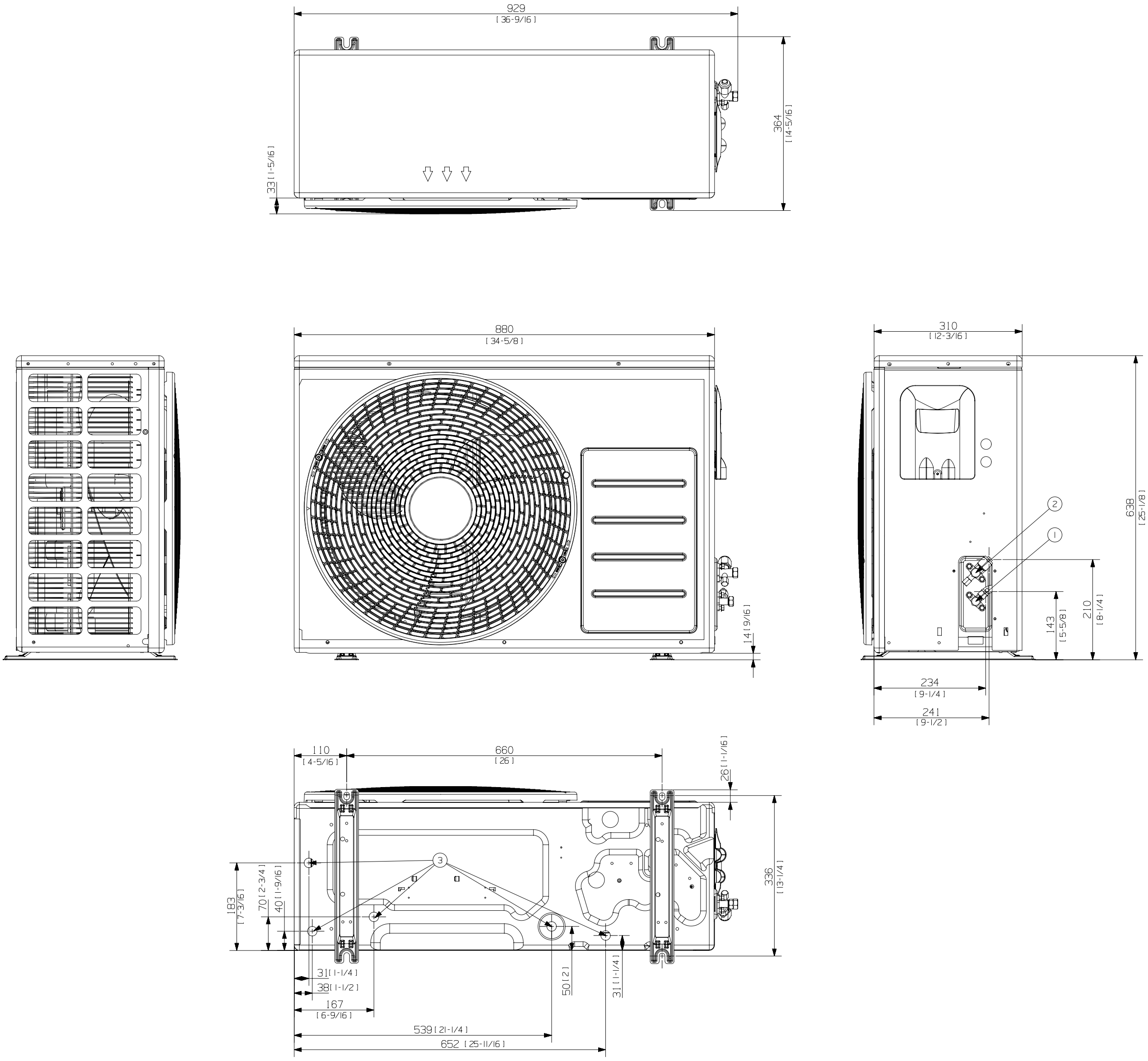
No.	Name	Description
1	Refrigerant liquid pipe	Φ6.35(1/4)
2	Refrigerant gas pipe	Φ9.52(3/8)
3	Drain Hole	

2. Dimensional Drawing

Outdoor Units

AC052/060MXADKH

Units : mm [inches]



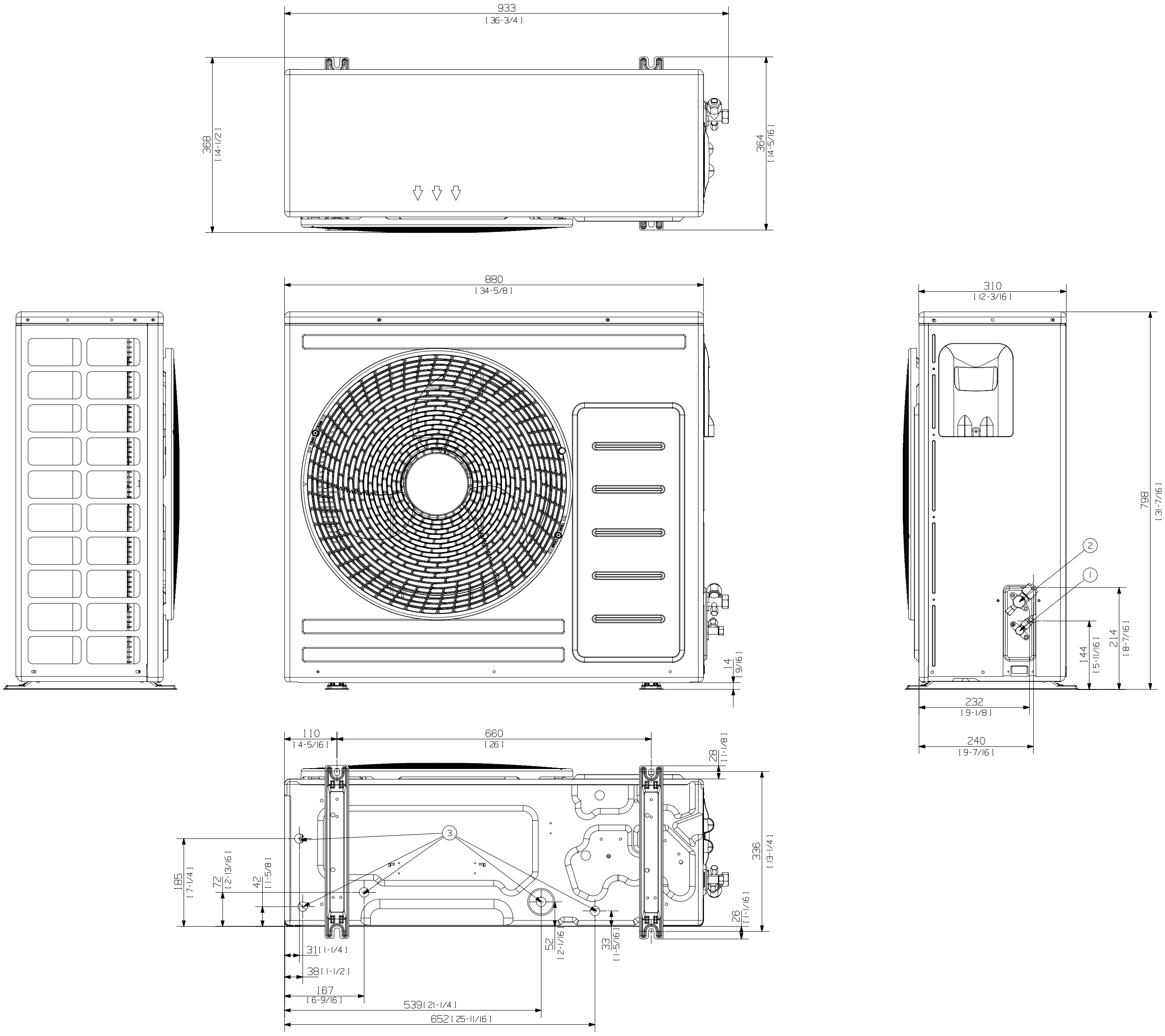
No.	Name	Description
1	Refrigerant liquid pipe	Φ6.35(1/4)
2	Refrigerant gas pipe	Φ12.7(1/2)
3	Drain Hole	

2. Dimensional Drawing

Outdoor Units

AC071MXADKH

Units : mm [inches]



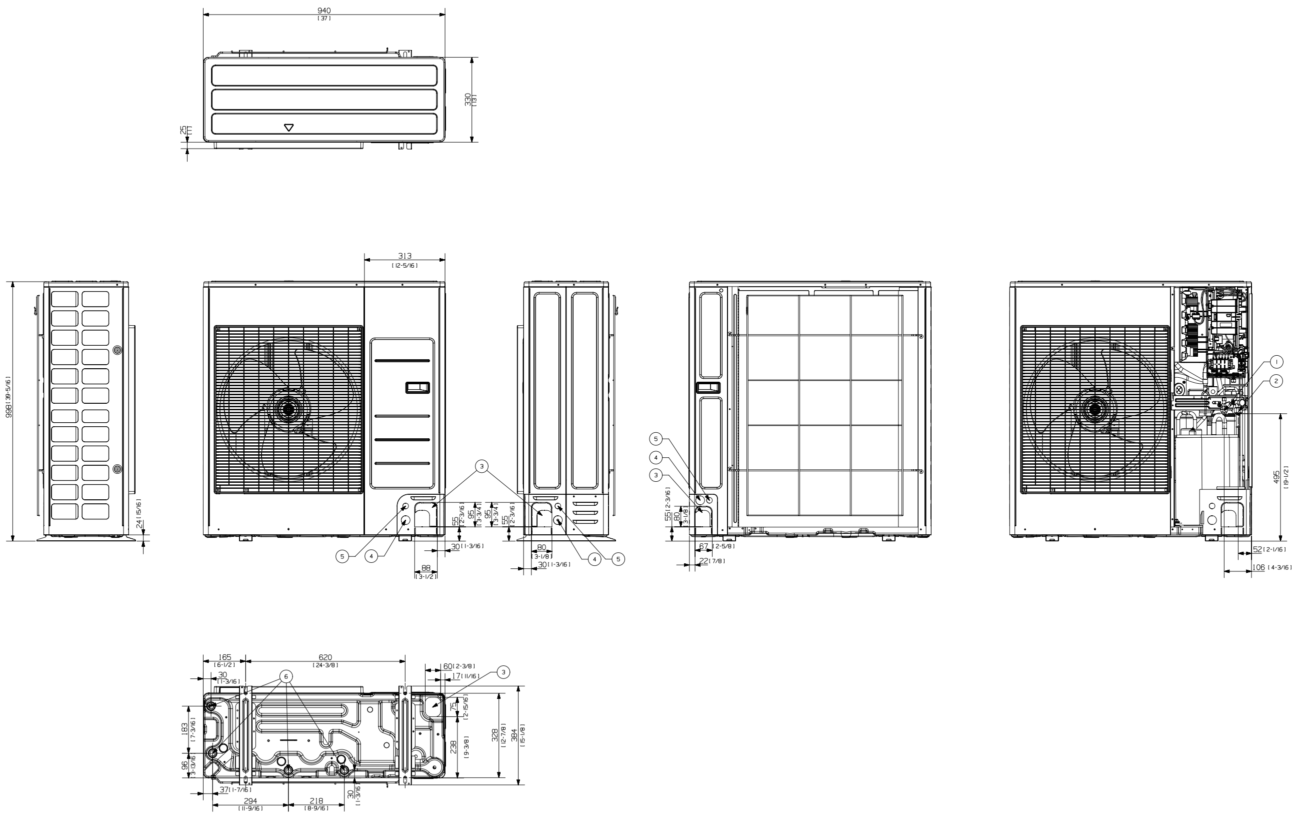
No.	Name	Description
1	Refrigerant liquid pipe	Φ6.35(1/4)
2	Refrigerant gas pipe	Φ15.88(5/8)
3	Drain Hole	

2. Dimensional Drawing

Outdoor Units

AC090/100/120MXAD*H

Units : mm [inches]



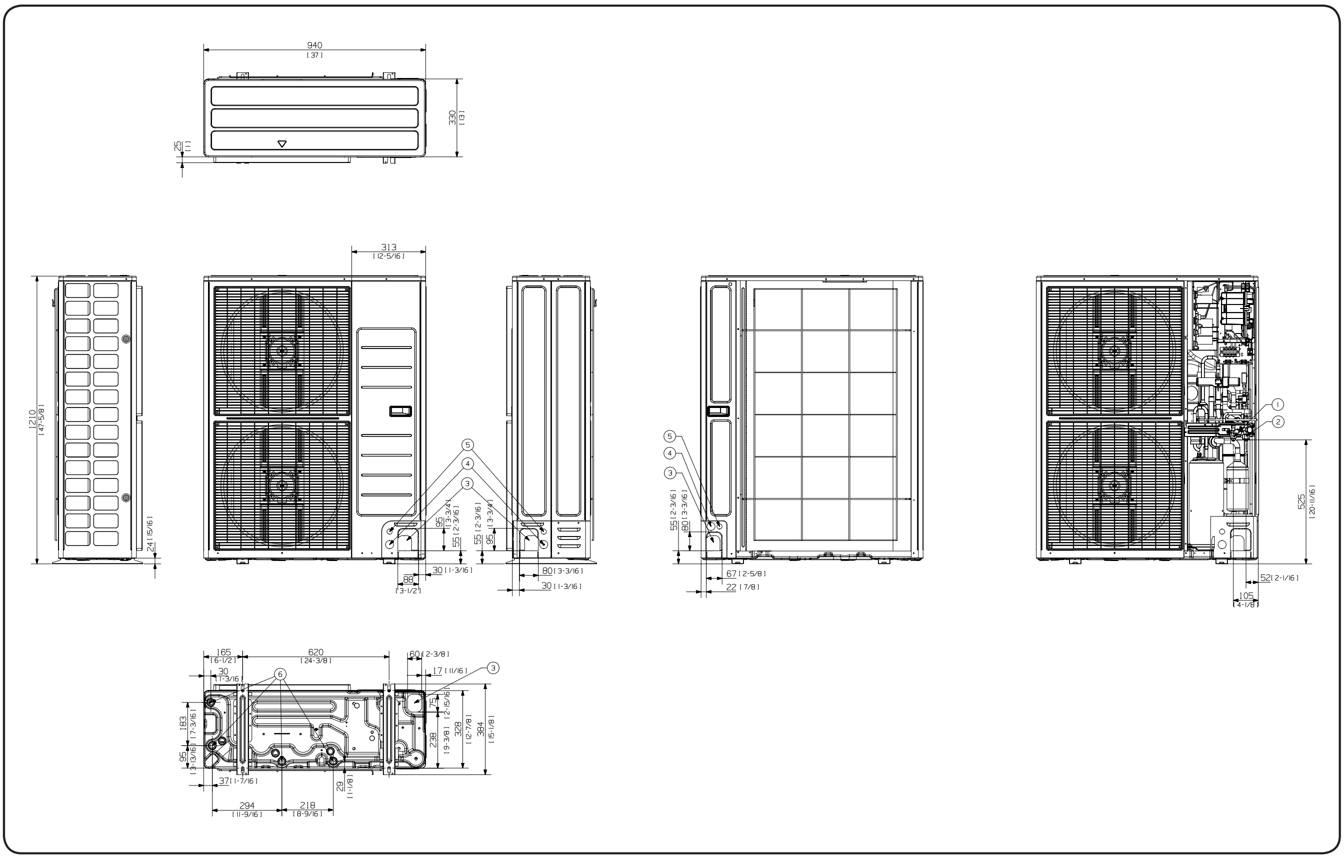
No.	Name	Description
1	Refrigerant liquid pipe	Φ9.52(3/8)
2	Refrigerant gas pipe	Φ15.88(5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear , Φ34 [1-3/8]
5	Communication wiring conduit	Front / Side / Rear , Φ22 [7/8]
6	Drain Hole	Connect with the provided drain plug

2. Dimensional Drawing

Outdoor Units

AC140MXAD*H

Units : mm [inches]



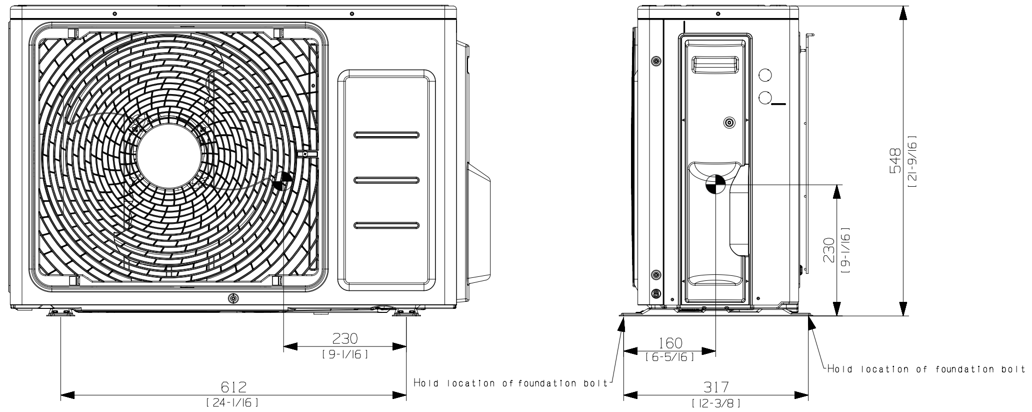
No.	Name	Description
1	Refrigerant liquid pipe	Φ9.52(3/8)
2	Refrigerant gas pipe	Φ15.88(5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear , Φ34 [1-3/8]
5	Communication wiring conduit	Front / Side / Rear , Φ22 [7/8]
6	Drain Hole	Connect with the provided drain plug

3. Center of Gravity

Outdoor Units

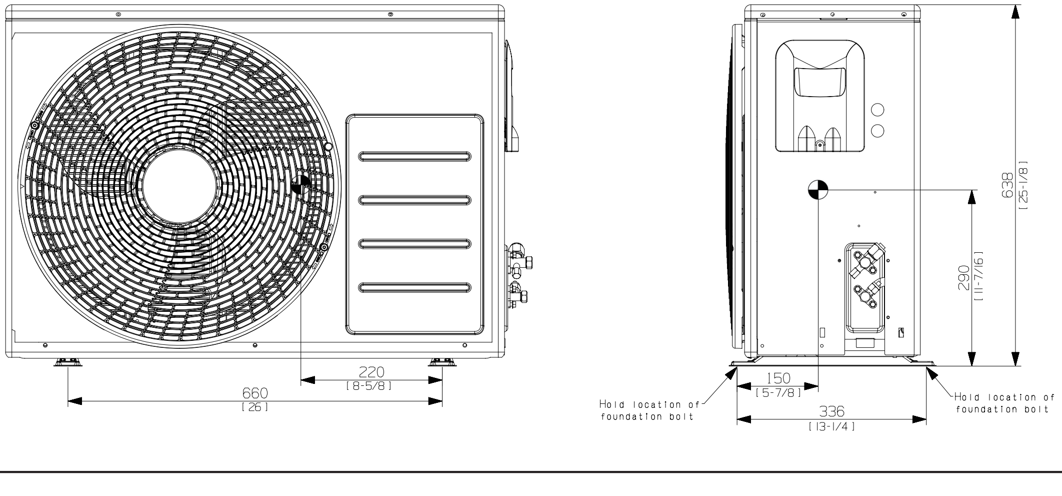
AC026/035MXADKH

Units : mm [inches]



AC052/060MXADKH

Units : mm [inches]

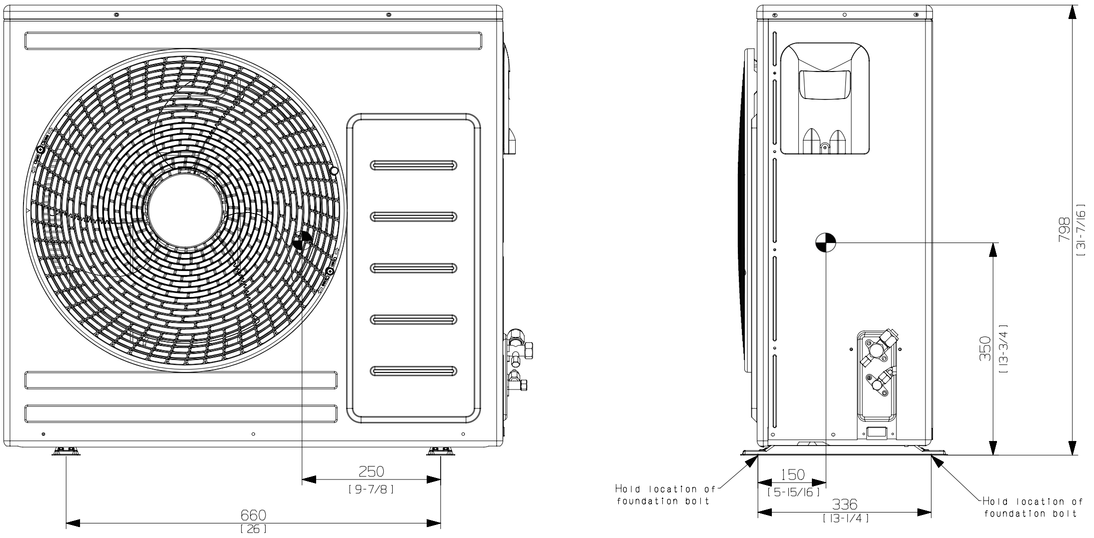


3. Center of Gravity

Outdoor Units

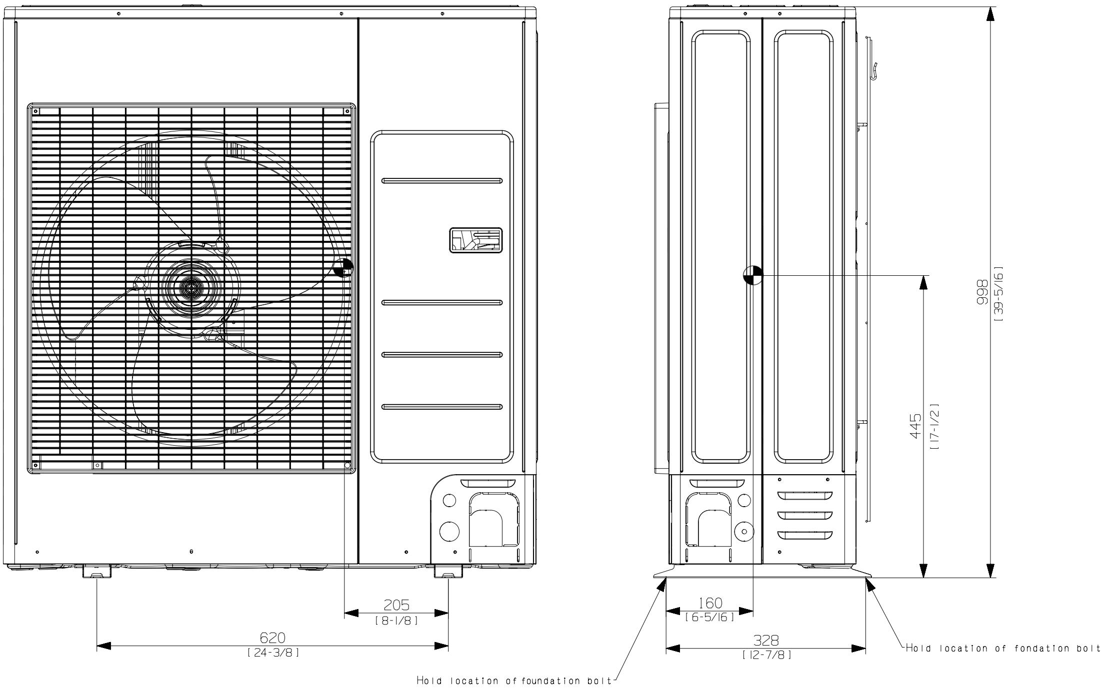
AC071MXADKH

Units : mm [inches]



AC090/100/120MXAD*H

Units : mm [inches]

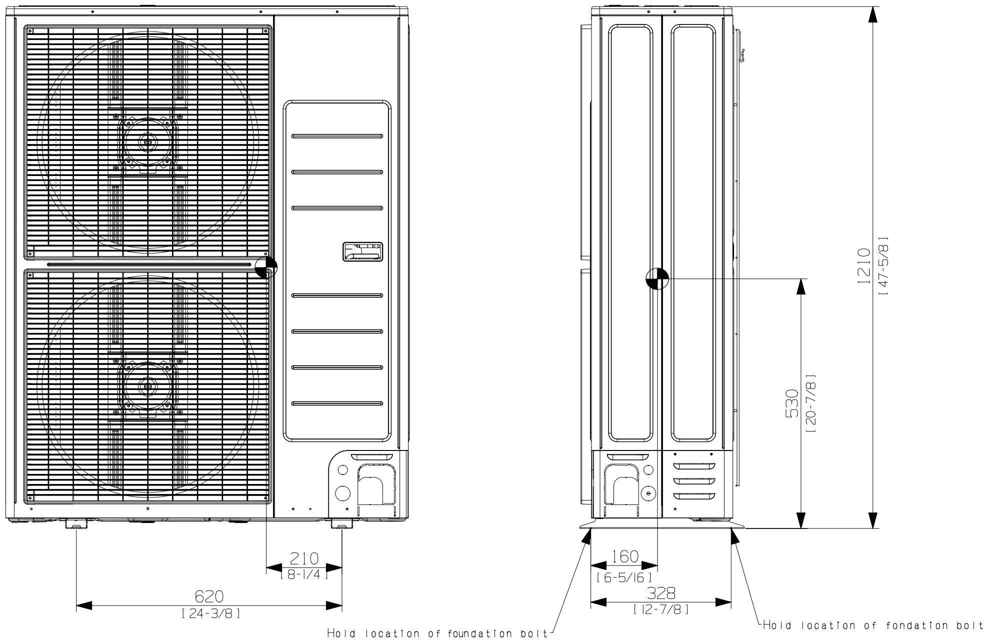


3. Center of Gravity

Outdoor Units

AC140MXAD*H

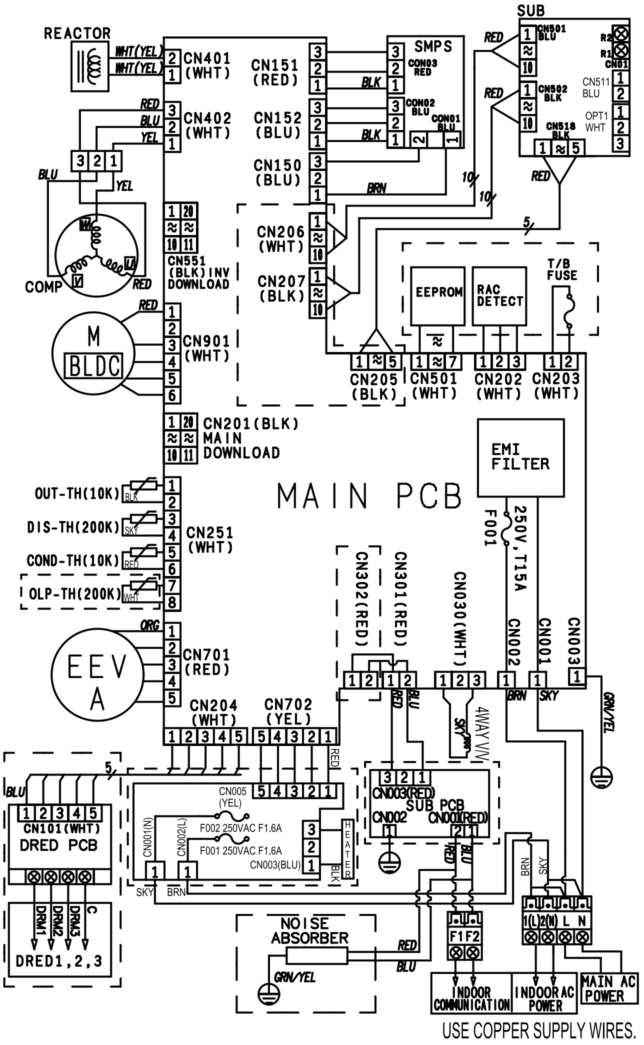
Units : mm [inches]



4. Electrical Wiring Diagram

Outdoor Units

AC026/035MXADKH



USE COPPER SUPPLY WIRES.
UTILISER DES FILS
D'ALIMENTATION EN CURVRE.
Option

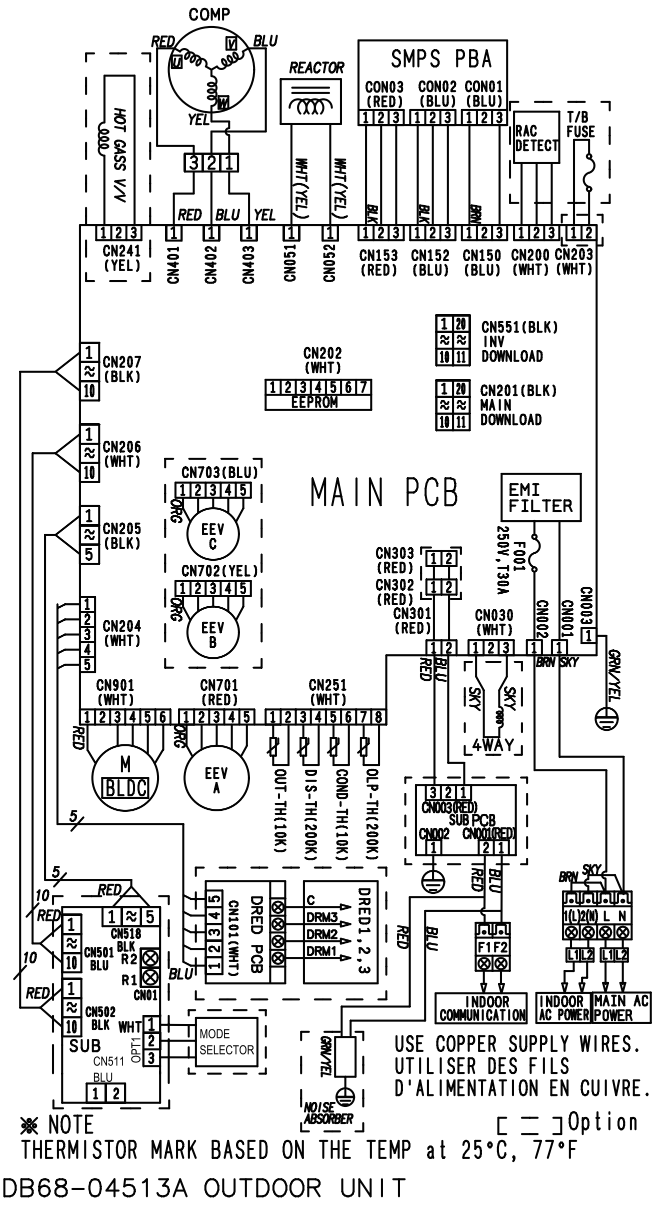
DB68-04512A ※NOTE - 25°C (77°F) at 10Kohm / 200Kohm

MAIN PCB	Printed circuit board(MAIN)	EEV	Electronic Expansion Valve	DIS-TH(200K)	Thermistor DISCHARGE
DRED PCB	Printed circuit board(DRED)	M-BLDC	BLDC Motor	OUT-TH(10K)	Thermistor AMBIENT
SMPS	Printed circuit board(SMPS)	OLP-TEMP	Thermistor OLP	COND-TH(10K)	Thermistor CONDENSOR
SUB	Printed circuit board(SUB)				

4. Electrical Wiring Diagram

Outdoor Units

AC052/060/071MXADKH



USE COPPER SUPPLY WIRES.
UTILISER DES FILS
D'ALIMENTATION EN CUIVRE.

※ NOTE
THERMISTOR MARK BASED ON THE TEMP at 25°C, 77°F

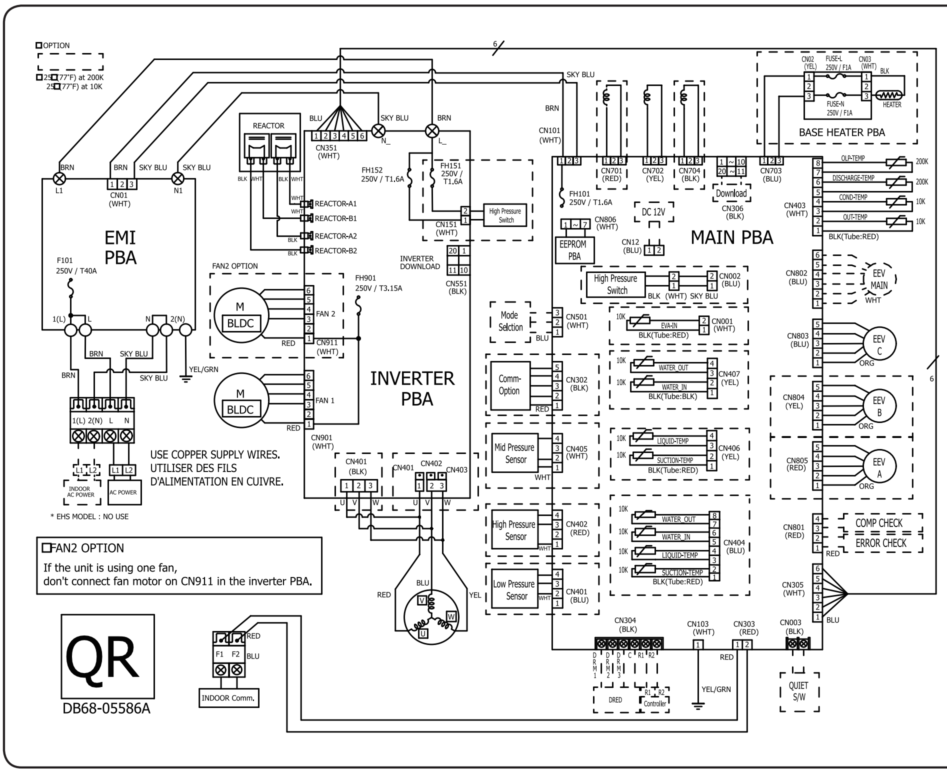
DB68-04513A OUTDOOR UNIT

MAIN PCB	Printed circuit board(MAIN)	EEV	Electronic Expansion Valve	DIS-TH(200K)	Thermistor DISCHARGE
DRED PCB	Printed circuit board(DRED)	M-BLDC	BLDC Motor	OUT-TH(10K)	Thermistor AMBIENT
SMPS	Printed circuit board(SMPS)	HOT GASS V/V	HOT GASS Valve	COND-TH(10K)	Thermistor CONDENSOR
SUB	Printed circuit board(SUB)	OLP-TEMP	Thermistor OLP		

4. Electrical Wiring Diagram

Outdoor Units

AC090/100/120/140MXADKH



Wiring Diagram for Outdoor DB68-05586A

ERROR CODE

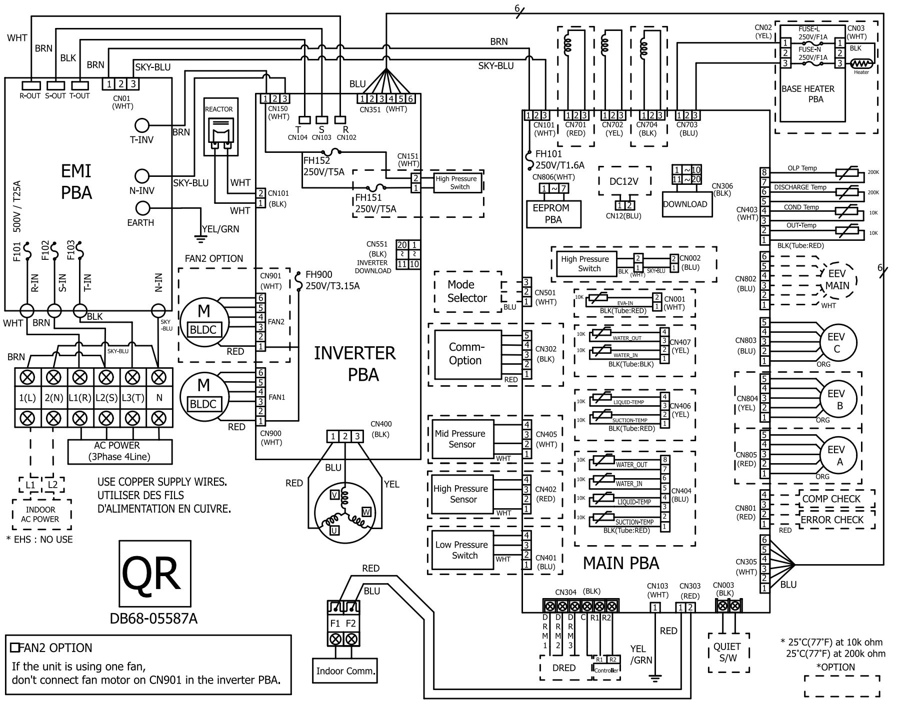
ERROR NO.	DESCRIPTION
E198	Indoor Terminal Block Thermal Fuse error
E201	Unit Quantity Miss Matching between Indoor and Outdoor
E202	Abnormal state or 1min Time out Comm between Indoor and Outdoor
E203	1min Time out Comm between Inverter and Outdoor
E221	Outdoor Temp Sensor error
E231	Cond Temp Sensor error
E251	Discharge Temp Sensor error
E320	OLP Sensor error
E403	Detection of Outdoor Freezing when Comp Stop
E404	Protection of Outdoor Overload when Comp stop
E407	High Press Switch error
E416	Discharge over Temp error when Comp Stop
E422	EEV Close error
E440	Out of Operation Temp range in Heating
E441	Out of Operation Temp range in Cooling
E458	Outdoor Fan1 error
E461	Comp Starting error
E462	Outdoor I_Trip error/PFC over Current
E463	OLP Over Heat and Comp Stop
E464	IPM Over Current(O.C) error
E465	Comp Over Load error
E466	DC Link Under / Over Voltage error
E467	Comp Wire Missing error
E468	Inverter_Current Sensor error
E469	Inverter_DC Link Voltage Sensor error
E470	Outdoor EEPROM data checksum error
E471	Outdoor EEPROM hardware read/write error
E474	Inverter_Heatsink Sensor error
E475	Outdoor Fan2 error(Only 2 FAN model)
E483	Overvoltage of H/W Detect DC Link
E484	PFC Overload(Over Current) Error
E485	Inverter_Input Current Sensor error
E488	Inverter_Input Voltage Sensor error
E500	Heatsink Over Heat error
E508	"Smart Install" Uninstalled error
E554	Loading_failure / Total Leakage of Refrigerant of Outdoor Unit
E556	Outdoor Unit power set option error
E557	When DPM mode, Product option are not same between indor units
E590	Inverter EEPROM loading error
E901	Water inlet(PHE) temp sensor error(Short/Open)
E902	Water outlet(PHE) temp sensor error(Short/Open)
E906	Refrigerant gas inlet temp sensor error(Short/Open)

MAIN PCB	Printed circuit board(MAIN)	**EEV**	Electronic Expansion Valve	**DIS-TEMP**	Thermistor DISCHARGE
INVERTER PCB	Printed circuit board(INVERTER)	**M-BLDC**	BLDC Motor	**OUT-TEMP**	Thermistor AMBIENT
EMI PCB	Printed circuit board(EMI)	**OLP-TEMP**	Thermistor OLP	**COND-TEMP**	Thermistor CONDENSOR

4. Electrical Wiring Diagram

Outdoor Units

AC090/100/120/140MXADNH



USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

☐FAN2 OPTION
If the unit is using one fan,
don't connect fan motor on CN901 in the inverter PBA.

* 25°C(77°F) at 10k ohm
25°C(77°F) at 200k ohm

Wiring Diagram for Outdoor DB68-05587A

ERROR CODE

ERROR NO.	DESCRIPTION
E198	Indoor Terminal Block Thermal Fuse error
E201	Unit Quantity Miss Matching between Indoor and Outdoor
E202	Abnormal state or 1min Time out Comm between Indoor and Outdoor
E203	1min Time out Comm between Inverter and Outdoor
E221	Outdoor Temp Sensor error
E231	Cond Temp Sensor error
E251	Discharge Temp Sensor error
E320	OLP Sensor error
E403	Detection of Outdoor Freezing when Comp Stop
E404	Protection of Outdoor Overload when Comp stop
E407	High Press Switch error
E416	Discharge over Temp error when Comp Stop
E422	EEV Close error
E425	3Phase Power Source Miss Wiring error
E440	Out of Operation Temp range in Heating
E441	Out of Operation Temp range in Cooling
E458	Outdoor Fan1 error
E461	Comp Starting error
E462	Outdoor I_Trip error/PFC over Current
E463	OLP Over Heat and Comp Stop
E464	IPM Over Current(O.C) error
E465	Comp Over Load error
E466	DC Link Under / Over Voltage error
E467	Comp Wire Missing error
E468	Inverter_Current Sensor error
E469	Inverter_DC Link Voltage Sensor error
E470	Outdoor EEPROM data checksum error
E471	Outdoor EEPROM hardware read/write error
E474	Inverter_Heatsink Sensor error
E475	Outdoor Fan2 error(Only 2 FAN model)
E485	Inverter_Input Current Sensor error
E500	Heatsink Over Heat error
E508	"Smart Install" Uninstalled error
E554	Loading_failure / Total Leakage of Refrigerant of Outdoor Unit
E556	Outdoor Unit power set option error
E557	When DPM mode, Product option are not same between indor units
E590	Inverter EEPROM loading error
E901	Water inlet(PHE) temp sensor error(Short/Open)
E902	Water outlet(PHE) temp sensor error(Short/Open)
E906	Refrigerant gas inlet temp sensor error(Short/Open)

MAIN PCB	Printed circuit board(MAIN)	**EEV**	Electronic Expansion Valve	**DIS-TEMP**	Thermistor DISCHARGE
INVERTER PCB	Printed circuit board(INVERTER)	**M-BLDC**	BLDC Motor	**OUT-TEMP**	Thermistor AMBIENT
EMI PCB	Printed circuit board(EMI)	**OLP-TEMP**	Thermistor OLP	**COND-TEMP**	Thermistor CONDENSOR

NOTE

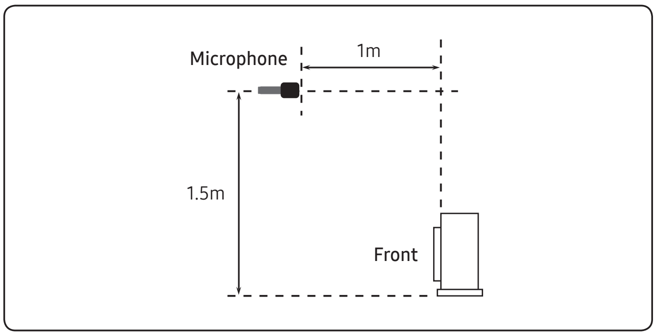
- This wiring diagram applies only to the outdoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor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

5. Sound Data

Outdoor Units

Sound Pressure level

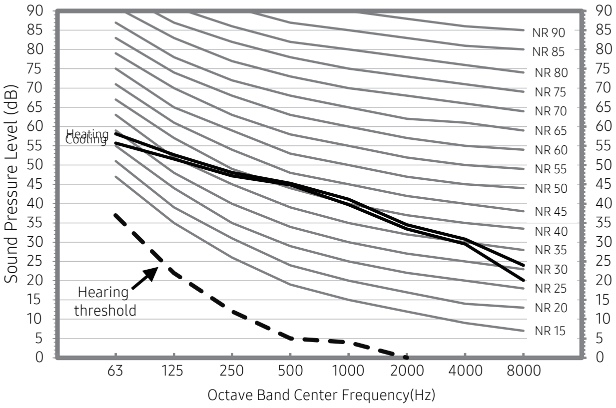
Unit: dB(A)



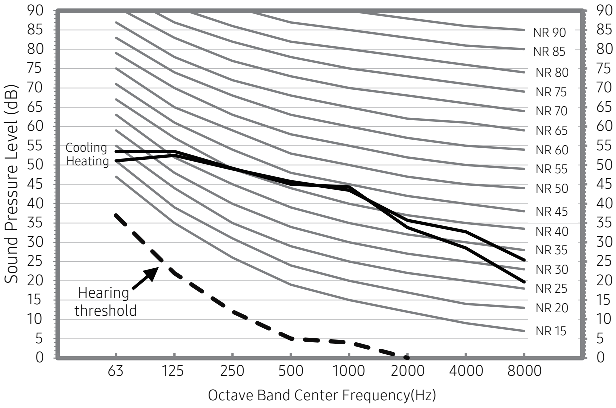
Model	Cooling	Heating
AC026MXADKH	46	47
AC035MXADKH	48	48
AC052MXADKH	48	48
AC060MXADKH	49	49

- NR Curve

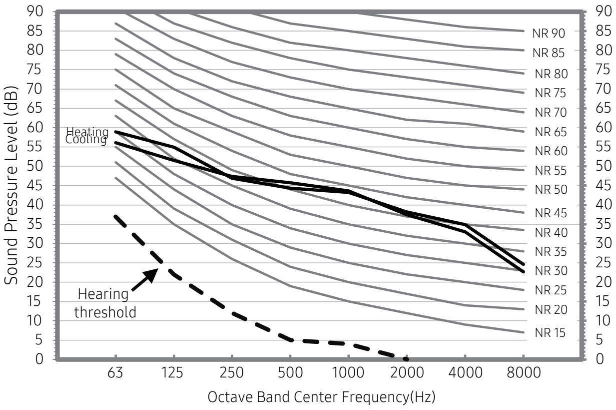
1) AC026MXADKH



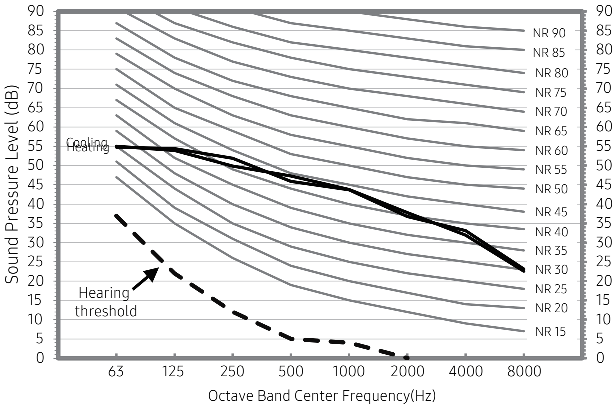
2) AC035MXADKH



3) AC052MXADKH



4) AC060MXADKH



NOTE

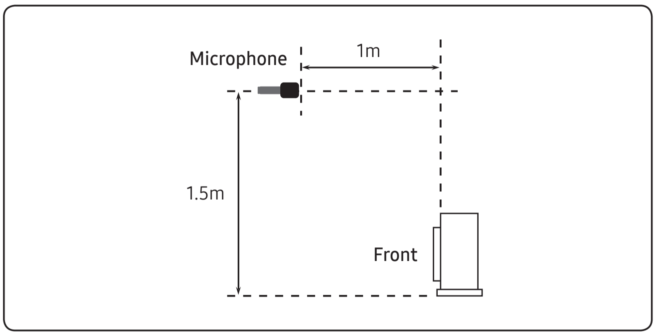
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

5. Sound Data

Outdoor Units

Sound Pressure level

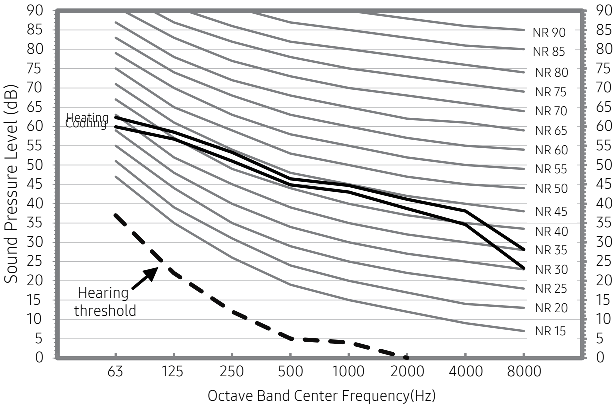
Unit: dB(A)



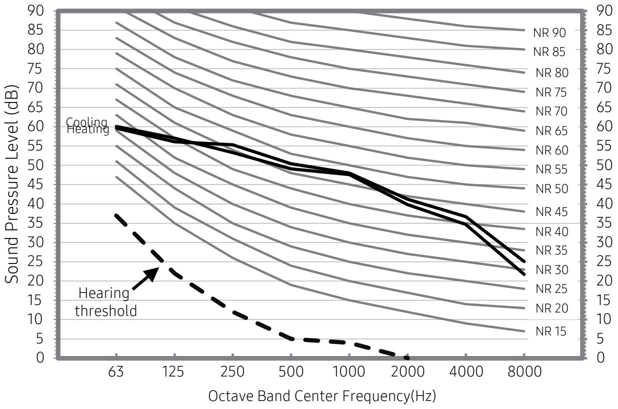
Model	Cooling	Heating
AC071MXADKH	49	51
AC090MXADKH	52	53
AC090MXADNH	52	53
AC100MXADKH	52	54

- NR Curve

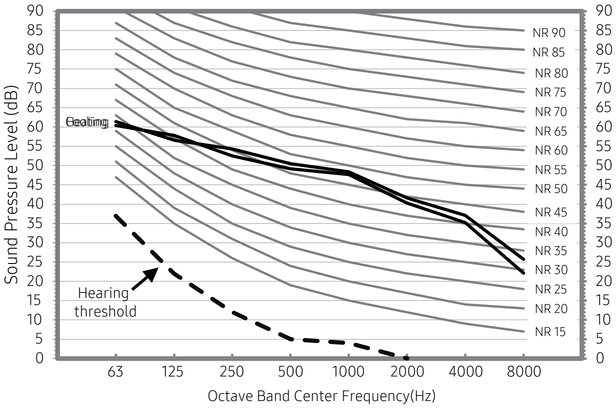
5) AC071MXADKH



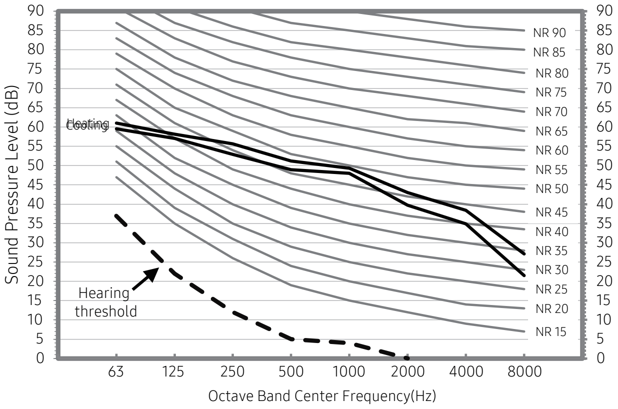
6) AC090MXADKH



7) AC090MXADNH



8) AC100MXADKH



NOTE

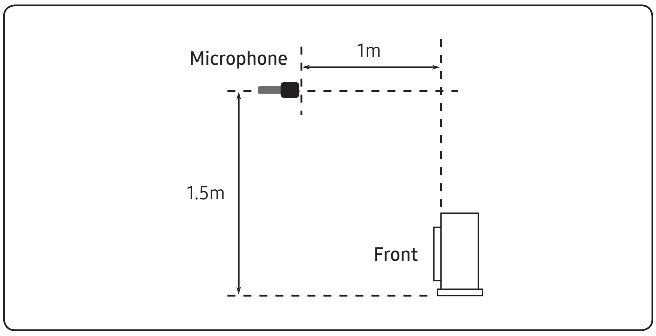
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

5. Sound Data

Outdoor Units

Sound Pressure level

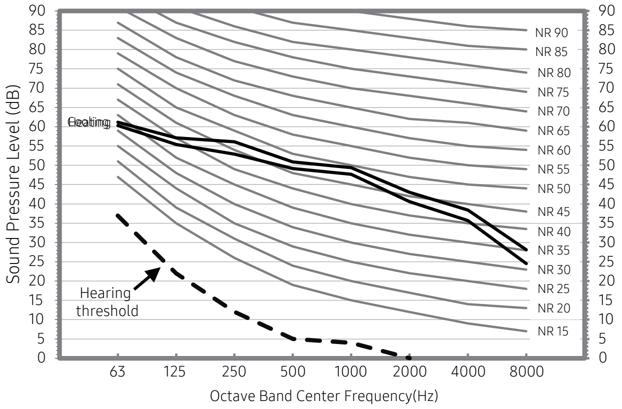
Unit: dB(A)



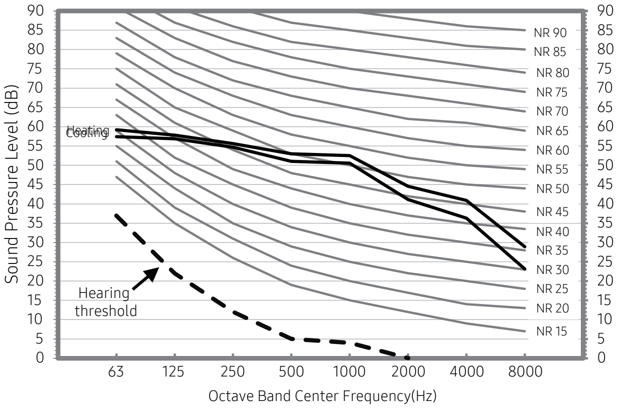
Model	Cooling	Heating
AC100MXADNH	52	54
AC120MXADKH	54	56
AC120MXADNH	54	56

- NR Curve

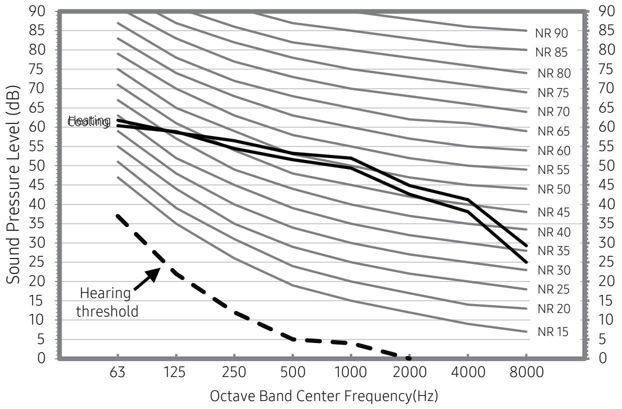
9) AC100MXADNH



10) AC120MXADKH



11) AC120MXADNH



NOTE

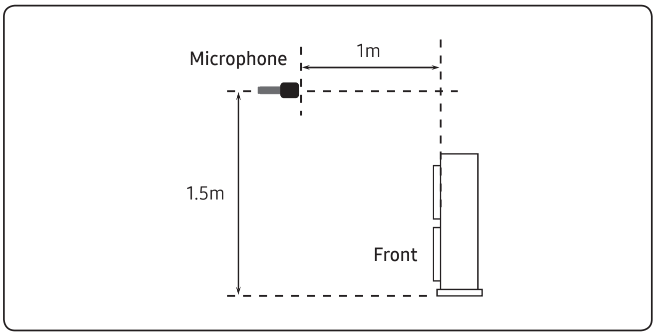
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

5. Sound Data

Outdoor Units

Sound Pressure level

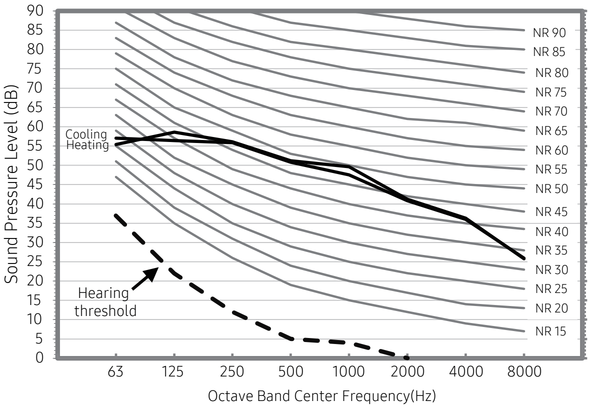
Unit: dB(A)



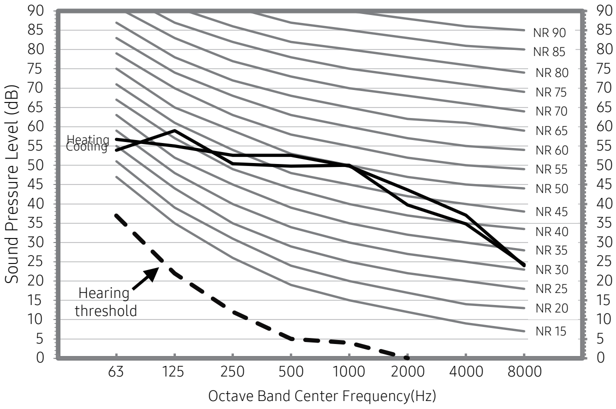
Model	Cooling	Heating
AC140MXADKH	53	54
AC140MXADNH	53	54

- NR Curve

12) AC140MXADKH



13) AC140MXADNH



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

5. Sound Data

Outdoor Units

Sound Power level

NOTE

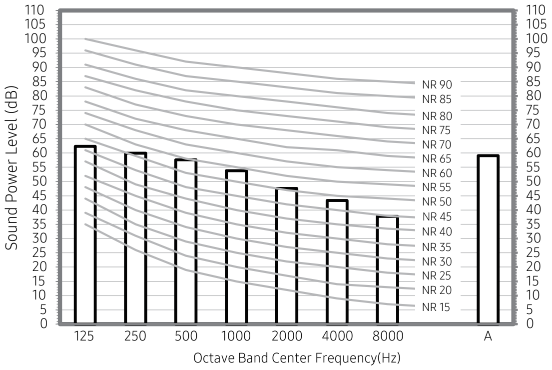
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

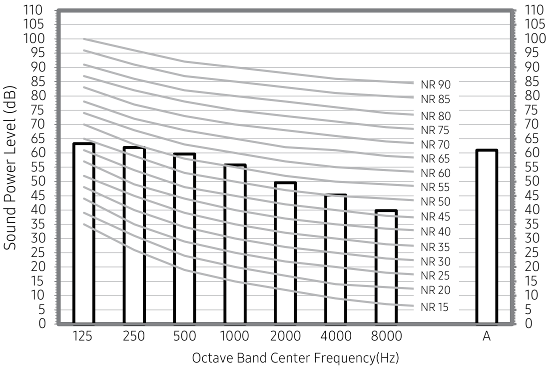
Model	Power
AC026MXADKH	59
AC035MXADKH	61
AC052MXADKH	62
AC060MXADKH	62

- NR Curve

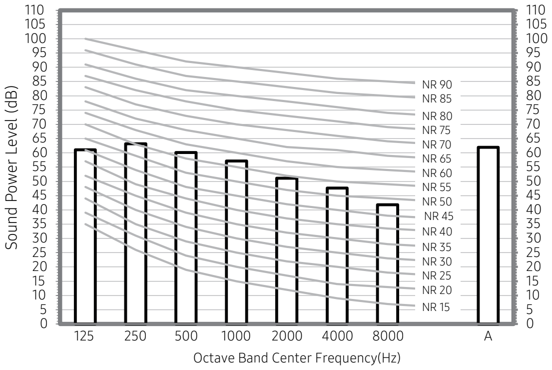
1) AC026MXADKH



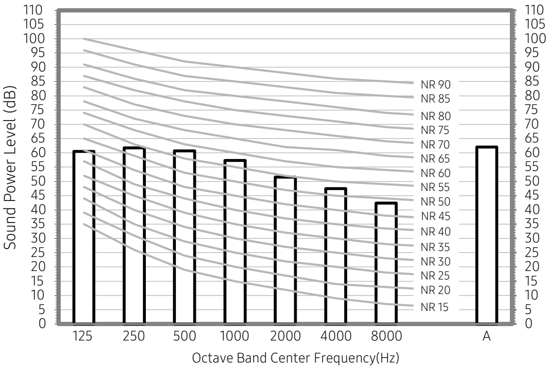
2) AC035MXADKH



3) AC052MXADKH



4) AC060MXADKH



5. Sound Data

Outdoor Units

Sound Power level

NOTE

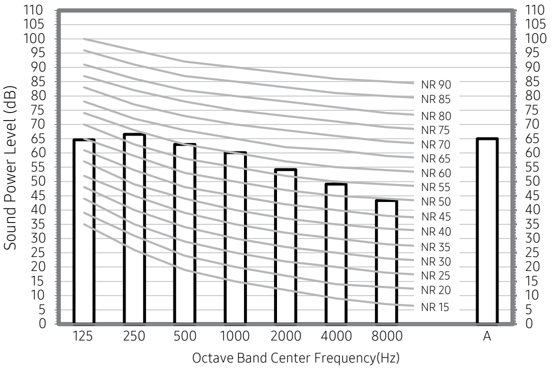
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

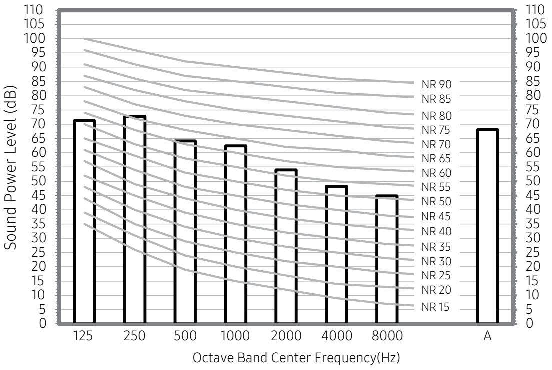
Model	Power
AC071MXADKH	65
AC090MXADKH	68
AC090MXADNH	68
AC100MXADKH	69

- NR Curve

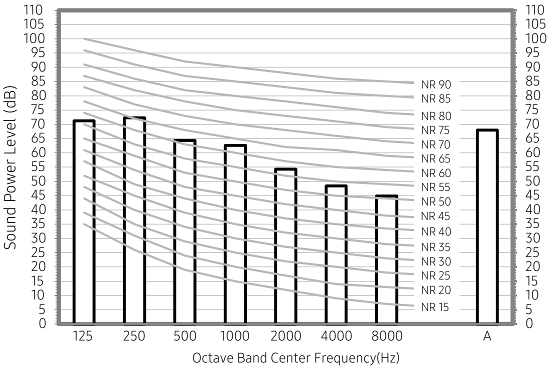
5) AC071MXADKH



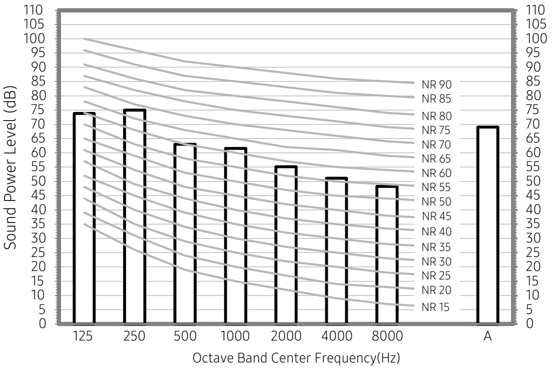
6) AC090MXADKH



7) AC090MXADNH



8) AC100MXADKH



5. Sound Data

Outdoor Units

Sound Power level

NOTE

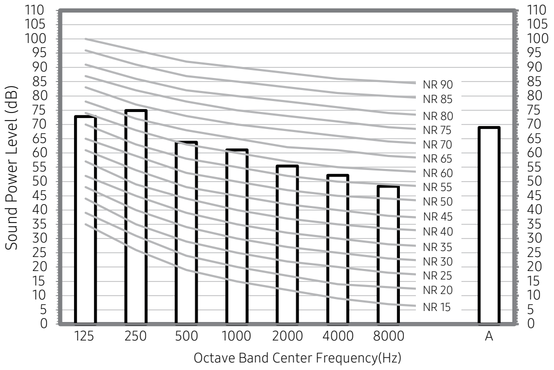
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

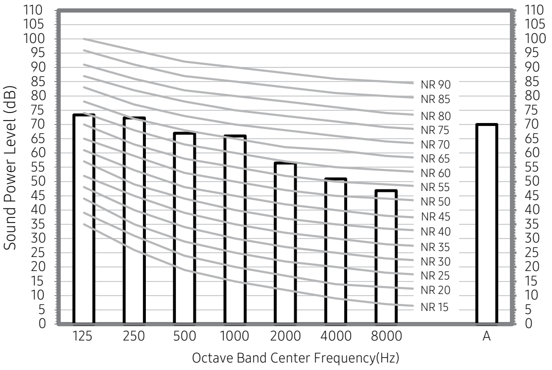
Model	Power
AC100MXADNH	69
AC120MXADKH	70
AC120MXADNH	70
AC140MXADKH	69

- NR Curve

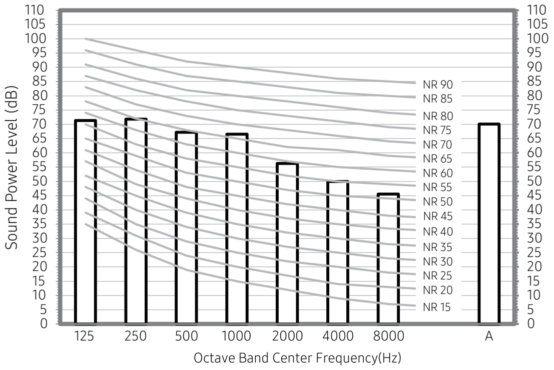
9) AC100MXADNH



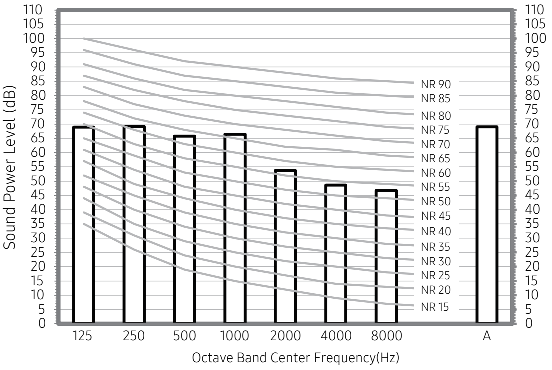
10) AC120MXADKH



11) AC120MXADNH



12) AC140MXADKH



5. Sound Data

Outdoor Units

Wall Mounted Type (A3050)

NOTE

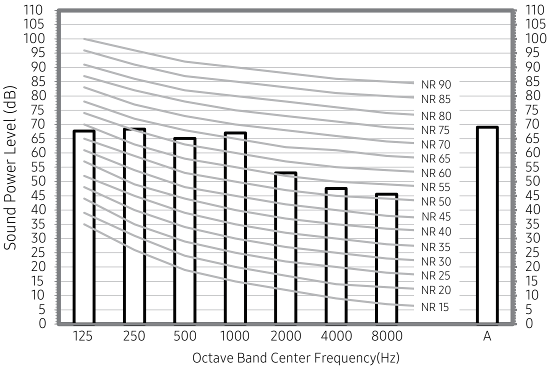
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

Model	Power
AC140MXADNH	69

- NR Curve

  13) AC140MXADNH



6. Capacity Correction

Outdoor Units

AC026/035MXADKH/EU

Cooling

		Pipe Length (m)			
		5	10	15	20
Level Difference (m)	30	-	-	-	-
	25	-	-	-	-
	20	-	-	-	-
	15	-	-	-	92
	10	-	-	95	92
	5	-	97	95	92
	0	100	97	95	92
	-5	-	96	94	91
	-10	-	-	92	90
	-15	-	-	-	88
	-20	-	-	-	-
	-25	-	-	-	-
	-30	-	-	-	-

Heating

		Pipe Length (m)			
		5	10	15	20
Level Difference (m)	30	-	-	-	-
	25	-	-	-	-
	20	-	-	-	-
	15	-	-	-	92
	10	-	-	95	92
	5	-	97	95	92
	0	100	97	95	92
	-5	-	97	95	92
	-10	-	-	95	92
	-15	-	-	-	92
	-20	-	-	-	-
	-25	-	-	-	-
	-30	-	-	-	-

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

6. Capacity Correction

Outdoor Units

AC052/060MXADKH/EU

Cooling

		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-		92	90
	15	-	-		94	92	90
	10	-		96	94	92	90
	5		98	96	94	92	90
	0	100	98	96	94	92	90
	-5		97	95	93	91	89
	-10	-		94	93	91	89
	-15	-	-		92	90	88
	-20	-	-	-	-	89	86
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	

Heating

		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-	-	94	92
	15	-	-	-	95	94	92
	10	-	-	97	95	94	92
	5	-	98	97	95	94	92
	0	100	98	97	95	94	92
	-5	-	98	97	95	94	92
	-10	-	-	97	95	94	92
	-15	-	-	-	95	94	92
	-20	-	-	-	-	94	92
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

6. Capacity Correction

Outdoor Units

AC071/090/100/120MXAD*H/EU

Cooling

		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	93	92	91	90
	25	-	-	-	-	-	94	93	92	91	90
	20	-	-	-	-	96	94	93	92	91	90
	15	-	-	-	97	96	94	93	92	91	90
	10	-	-	98	97	96	94	93	92	91	90
	5	-	99	98	97	96	94	93	92	91	90
	0	100	99	98	97	96	94	93	92	91	90
	-5	-	98	97	96	95	94	93	92	91	89
	-10	-	-	97	96	95	94	92	91	90	88
	-15	-	-	-	95	95	93	92	91	89	88
	-20	-	-	-	-	94	93	92	90	89	87
	-25	-	-	-	-	-	92	91	90	88	86
	-30	-	-	-	-	-	-	91	89	88	85

Heating

		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	94	93	92
	25	-	-	-	-	-	96	95	94	93	92
	20	-	-	-	-	96	96	95	94	93	92
	15	-	-	-	97	96	96	95	94	93	92
	10	-	-	98	97	96	96	95	94	93	92
	5	-	99	98	97	96	96	95	94	93	92
	0	100	99	98	97	96	96	95	94	93	92
	-5	-	99	98	97	96	96	95	94	93	92
	-10	-	-	98	97	96	96	95	94	93	92
	-15	-	-	-	97	96	96	95	94	93	92
	-20	-	-	-	-	96	96	95	94	93	92
	-25	-	-	-	-	-	96	95	94	93	92
	-30	-	-	-	-	-	-	95	94	93	92

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

6. Capacity Correction

Outdoor Units

AC140MXAD*H/EU

Cooling

			Pipe Length (m)														
			5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
	Level Difference (m)	30	-	-	-	-	-	-	95	94	93	92	91	91	90	89	88
		25	-	-	-	-	-	96	95	94	93	92	91	91	90	89	88
		20	-	-	-	-	97	96	95	94	93	92	91	91	90	89	88
		15	-	-	-	97	97	96	95	94	93	92	91	91	90	89	88
		10	-	-	98	97	97	96	95	94	93	92	91	91	90	89	88
		5	-	99	98	97	97	96	95	94	93	92	91	91	90	89	88
		0	100	99	98	97	97	96	95	94	93	92	91	91	90	89	88
		-5	-	99	98	97	96	95	95	94	93	92	91	90	89	88	87
		-10	-	-	98	97	96	95	94	93	93	92	91	90	89	88	86
		-15	-	-	-	97	96	95	94	93	92	91	90	89	88	87	85
		-20	-	-	-	-	95	95	94	93	92	91	90	89	88	86	84
		-25	-	-	-	-	-	94	93	93	92	91	90	89	87	86	83
		-30	-	-	-	-	-	-	93	92	91	90	89	88	87	85	82

Heating

			Pipe Length (m)														
			5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
	Level Difference (m)	30	-	-	-	-	-	-	96	95	94	94	93	92	91	91	90
		25	-	-	-	-	-	96	96	95	94	94	93	92	91	91	90
		20	-	-	-	-	97	96	96	95	94	94	93	92	91	91	90
		15	-	-	-	98	97	96	96	95	94	94	93	92	91	91	90
		10	-	-	99	98	97	96	96	95	94	94	93	92	91	91	90
		5	-	99	99	98	97	96	96	95	94	94	93	92	91	91	90
		0	100	99	99	98	97	96	96	95	94	94	93	92	91	91	90
		-5	-	99	99	98	97	96	96	95	94	94	93	92	91	91	90
		-10	-	-	99	98	97	96	96	95	94	94	93	92	91	91	90
		-15	-	-	-	98	97	96	96	95	94	94	93	92	91	91	90
		-20	-	-	-	-	97	96	96	95	94	94	93	92	91	91	90
		-25	-	-	-	-	-	96	96	95	94	94	93	92	91	91	90
		-30	-	-	-	-	-	-	96	95	94	94	93	92	91	91	90

NOTE

- Capacities are based on following conditions; Refrigerant pipe length : 5m / Level difference : 0m.

7. Operation Range

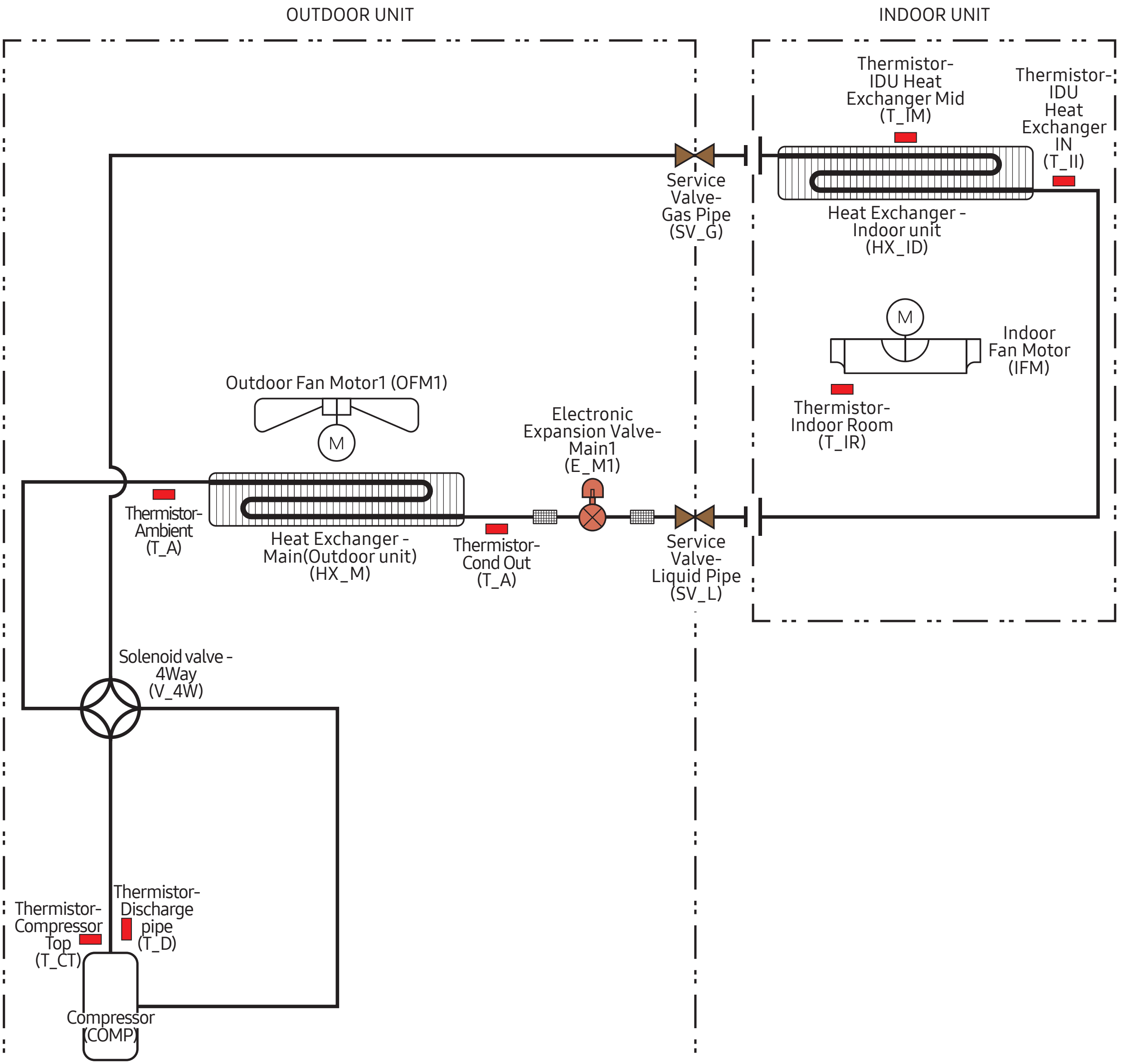
Mode	Outdoor Unit	Indoor Unit	Indoor Unit
	Temperature(DB)	Temperature(DB)	Humidity(RH)
Cooling	-15°C ~ 50°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	30°C or less	-
Drying	-15°C ~ 50°C	18°C ~ 32°C	80% or less

NOTE

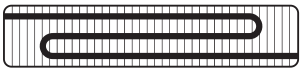
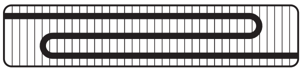
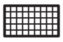
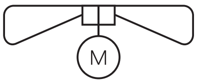
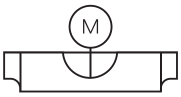
- The assumed installation conditions are follows
  - The pipe length(including elbow) is 5 m.
  - The level difference is 0 m.

8. Piping Diagram

AC026MNNDKH/EU+AC026MXADKH/EU , AC026MNJDKH/EU+AC026MXADKH/EU AC035MNNDKH/EU+AC035MXADKH/EU , AC035MNJDKH/EU+AC035MXADKH/EU

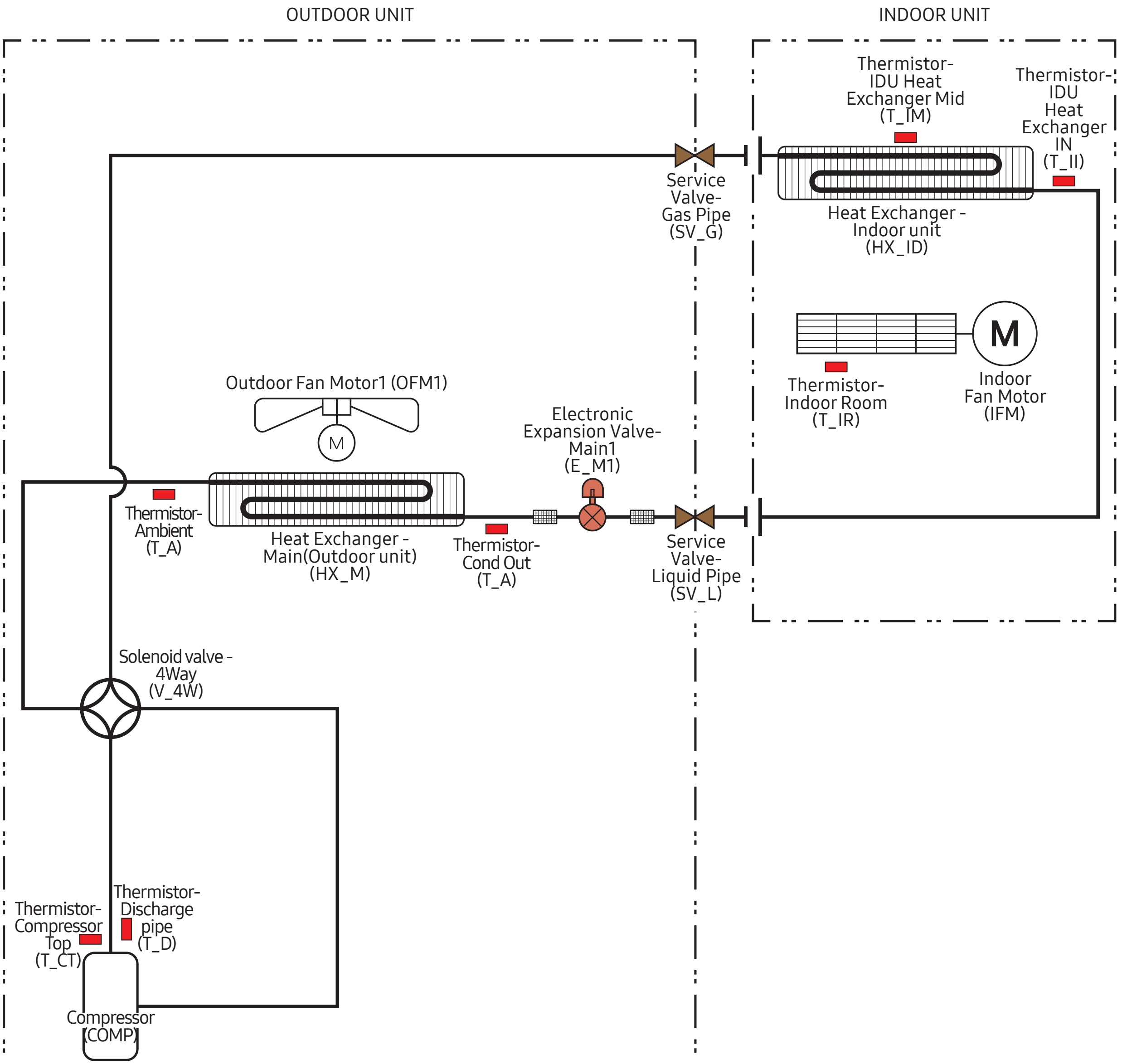


8. Piping Diagram

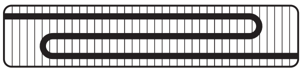
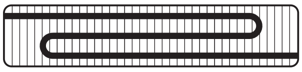
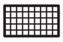
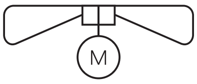
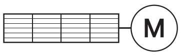
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC026MN1DKH/EU+AC026MXADKH/EU , AC026MNADKH/EU+AC026MXADKH/EU
AC035MN1DKH/EU+AC035MXADKH/EU , AC035MNADKH/EU+AC035MXADKH/EU

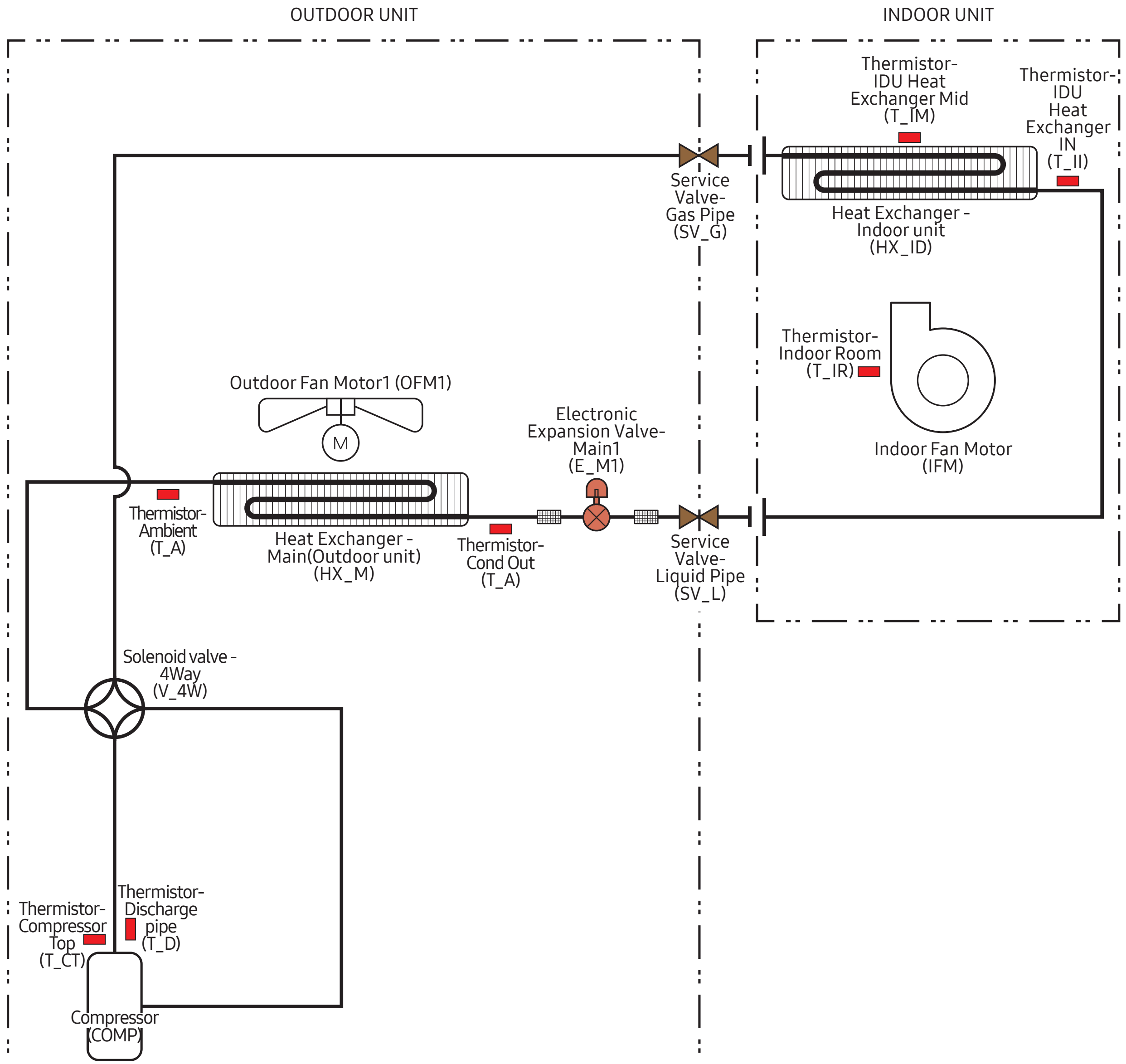


8. Piping Diagram

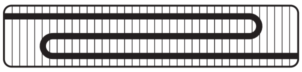
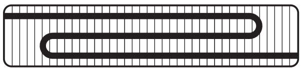
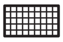
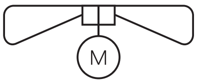
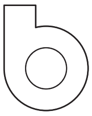
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC026MNLDKH/EU+AC026MXADKH/EU , AC035MNLDKH/EU+AC035MXADKH/EU
AC035MNMDKH/EU+AC035MXADKH/EU

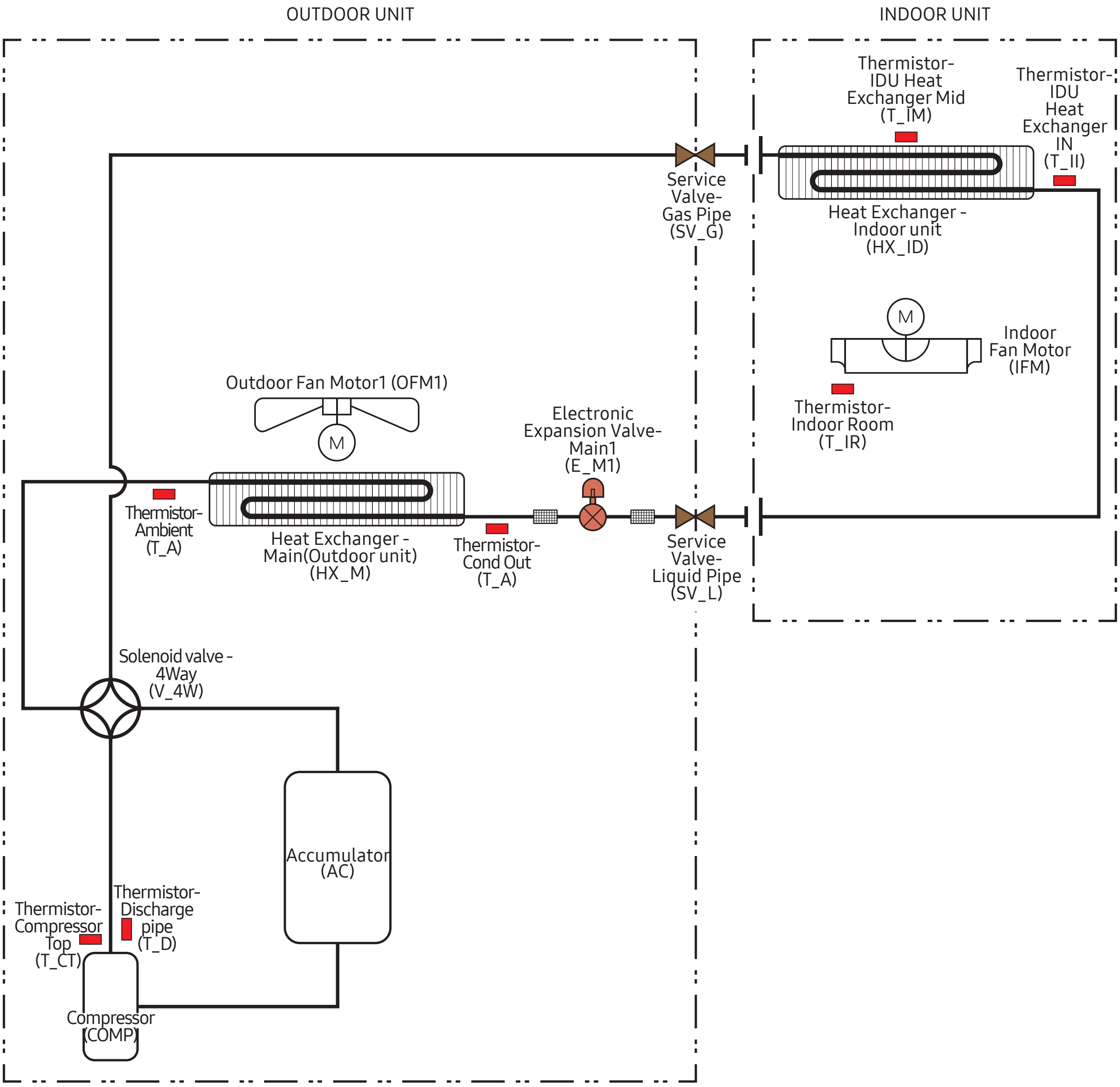


8. Piping Diagram

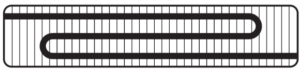
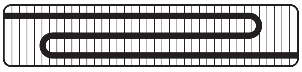
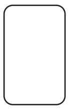
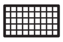
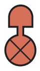
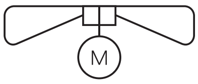
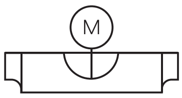
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor1
	IFM 	Indoor Fan Motor

8. Piping Diagram

**AC052MNNDKH/EU+AC052MXADKH/EU , AC052MNJDKH/EU+AC052MXADKH/EU
AC052MN4DKH/EU+AC052MXADKH/EU , AC060MNNDKH/EU+AC060MXADKH/EU
AC071MNNDKH/EU+AC071MXADKH/EU , AC071MN4DKH/EU+AC071MXADKH/EU
AC071MN4PKH/EU+AC071MXADKH/EU**

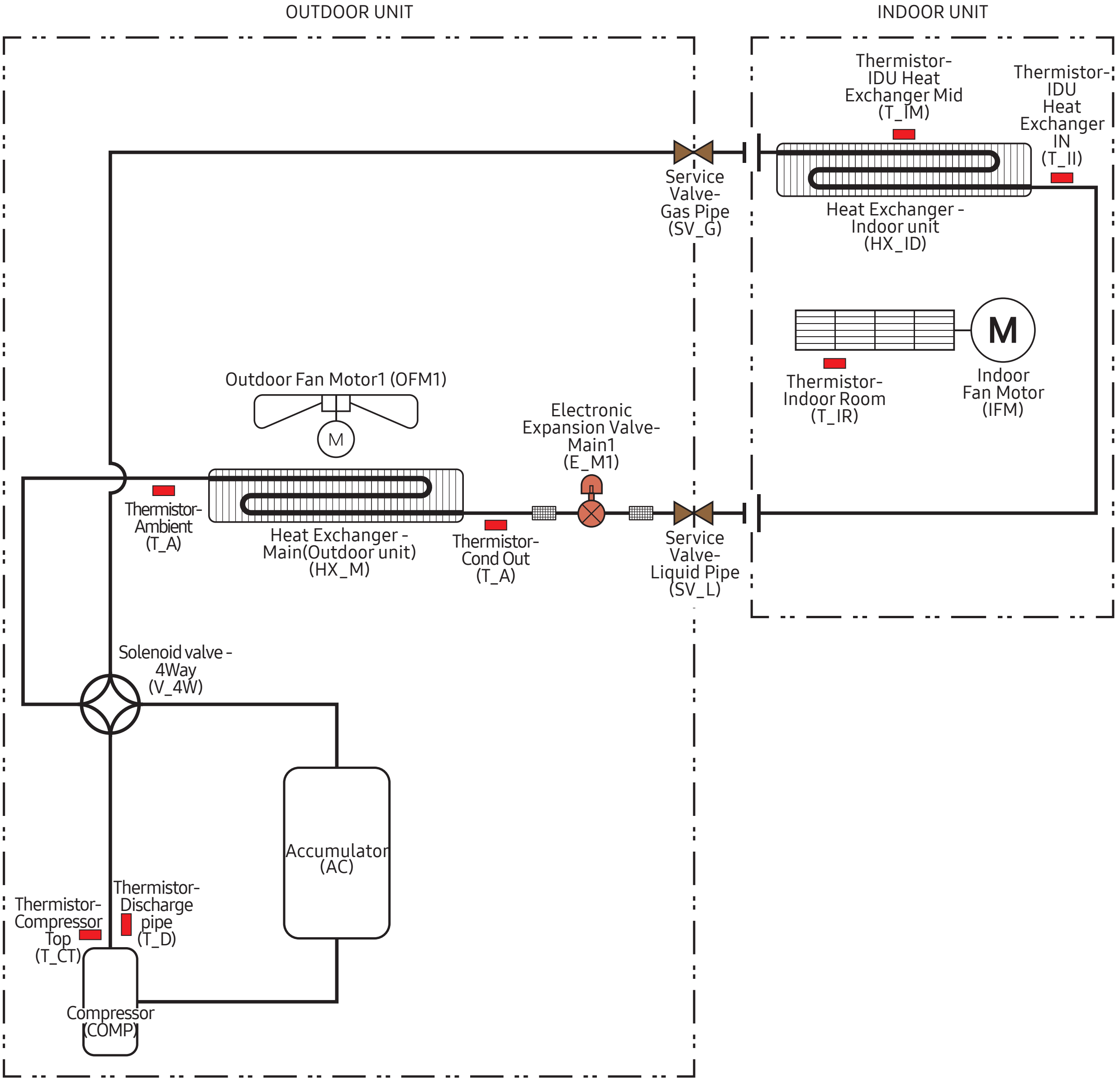


8. Piping Diagram

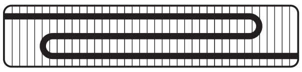
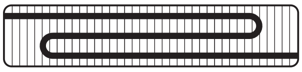
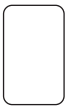
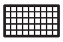
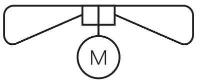
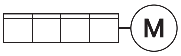
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC052MNADKH/EU+AC052MXADKH/EU , AC071MNADKH/EU+AC071MXADKH/EU

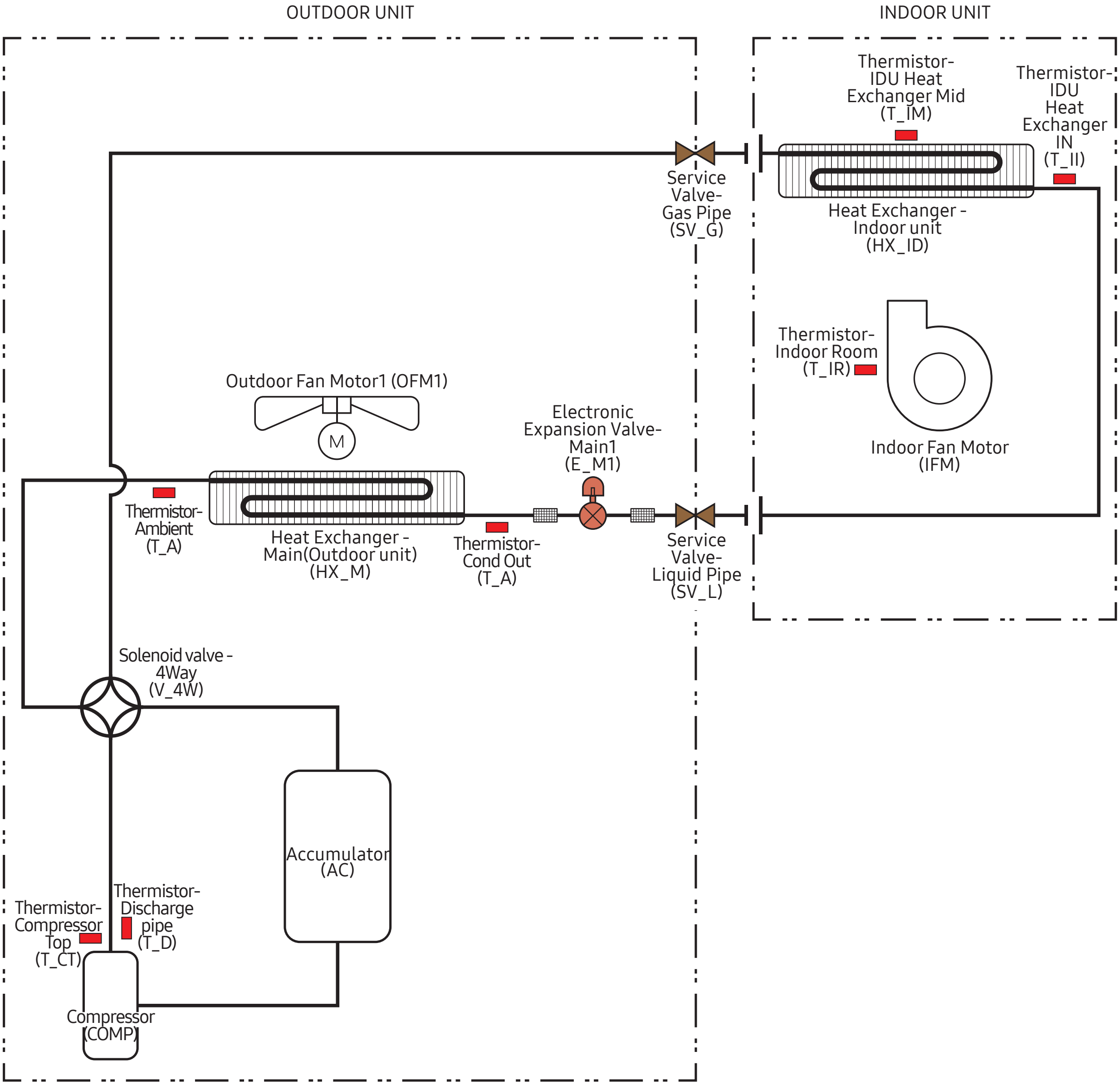


8. Piping Diagram

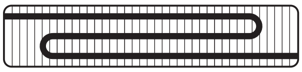
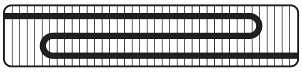
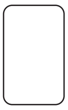
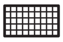
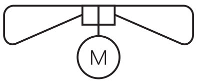
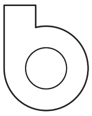
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC052MNCDKH/EU+AC052MXADKH/EU , AC052MNMDKH/EU+AC052MXADKH/EU AC052MNLDKH/EU+AC052MXADKH/EU , AC060MNMDKH/EU+AC060MXADKH/EU AC071MNCDKH/EU+AC071MXADKH/EU , AC071MNMDKH/EU+AC071MXADKH/EU AC071MNLDKH/EU+AC071MXADKH/EU

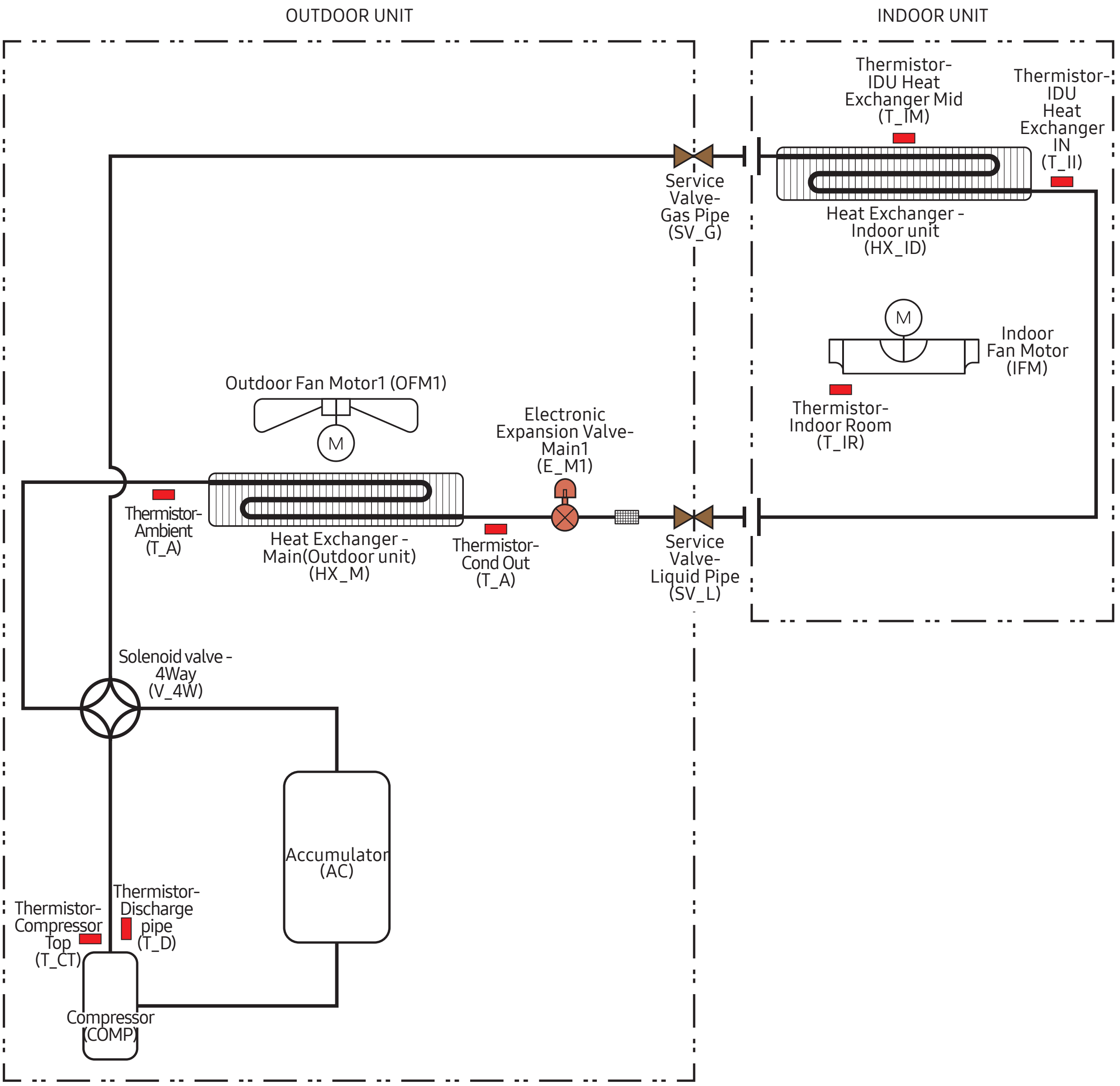


8. Piping Diagram

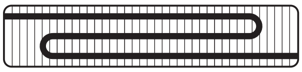
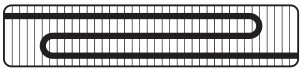
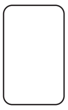
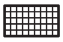
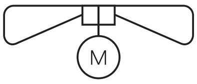
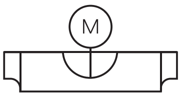
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC090MN4DKH/EU+AC090MXADKH/EU , AC090MN4PKH/EU+AC090MXADKH/EU
AC100MN4DKH/EU+AC100MXADKH/EU , AC100MN4PKH/EU+AC100MXADKH/EU
AC100MN4DKH/EU+AC100MXADNH/EU , AC100MN4PKH/EU+AC100MXADNH/EU
AC120MN4DKH/EU+AC120MXADKH/EU , AC120MN4PKH/EU+AC120MXADKH/EU
AC120MN4DKH/EU+AC120MXADNH/EU , AC120MN4PKH/EU+AC120MXADNH/EU

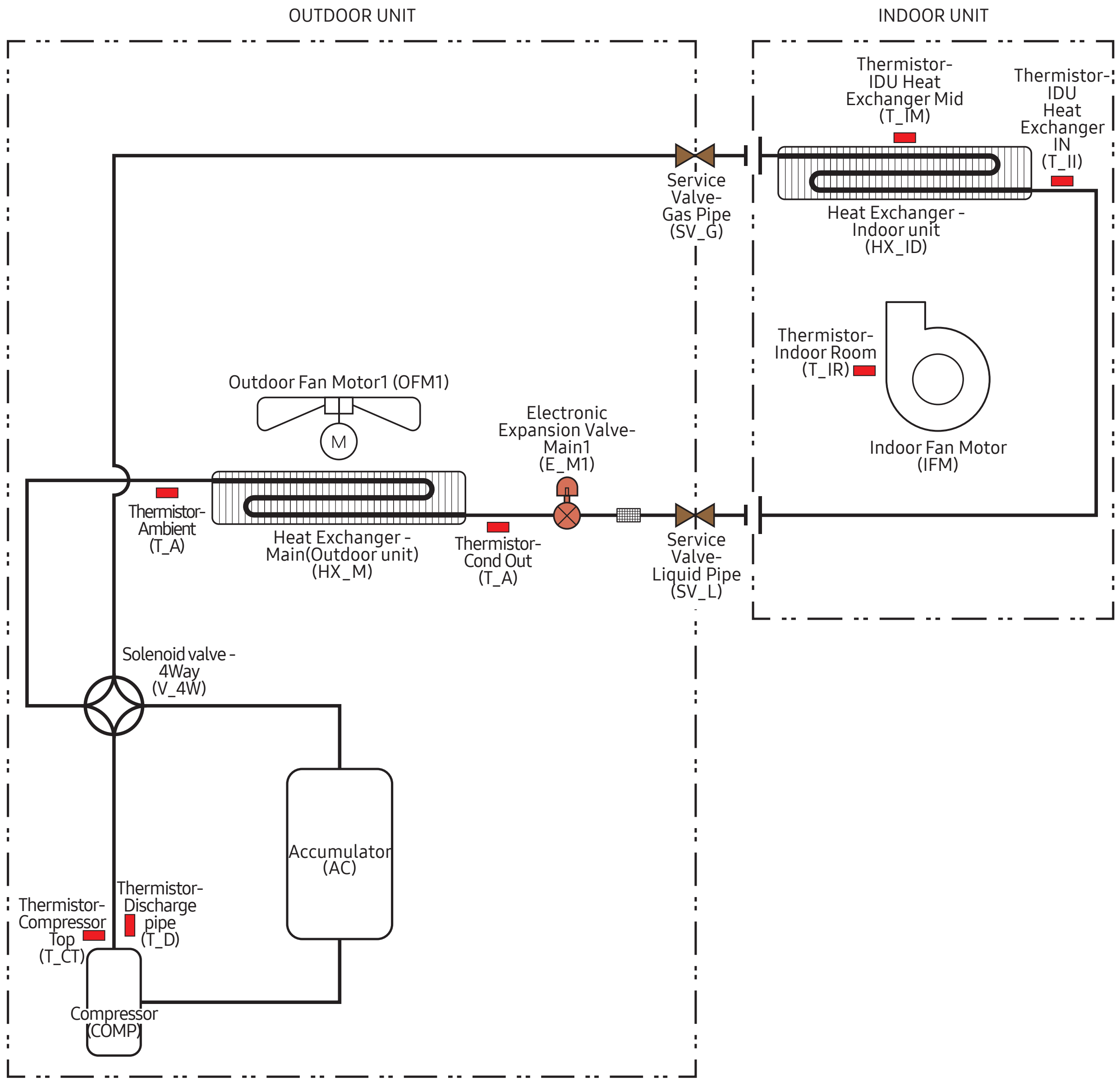


8. Piping Diagram

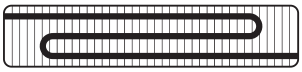
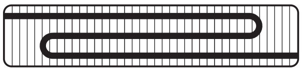
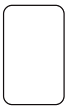
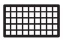
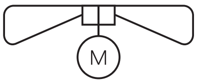
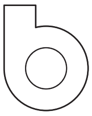
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC090MNMDKH/EU+AC090MXADKH/EU , AC090MNMDKH/EU+AC090MXADNH/EU
AC100MNCDKH/EU+AC100MXADKH/EU , AC100MNMDKH/EU+AC100MXADKH/EU
AC100MNCDKH/EU+AC100MXADNH/EU , AC100MNMDKH/EU+AC100MXADNH/EU
AC120MNCDKH/EU+AC120MXADKH/EU , AC120MNMDKH/EU+AC120MXADKH/EU
AC120MNCDKH/EU+AC120MXADNH/EU , AC120MNMDKH/EU+AC120MXADNH/EU

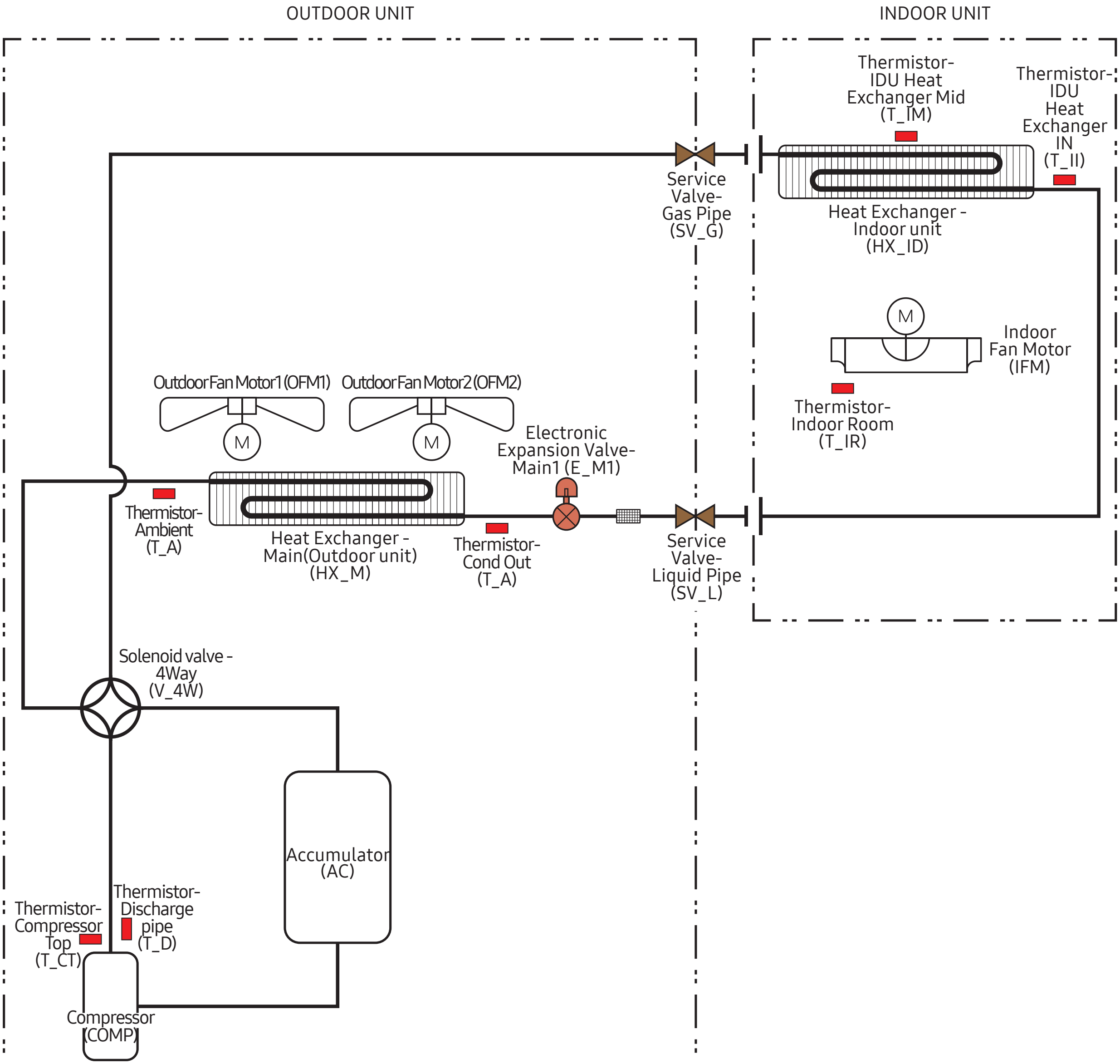


8. Piping Diagram

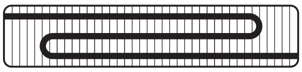
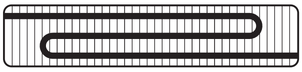
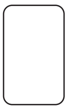
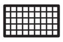
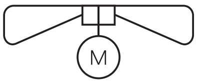
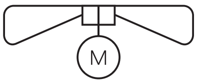
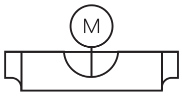
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor1
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC140MN4DKH/EU+AC140MXADKH/EU , AC140MN4PKH/EU+AC140MXADKH/EU
AC140MN4DKH/EU+AC140MXADNH/EU , AC140MN4PKH/EU+AC140MXADNH/EU

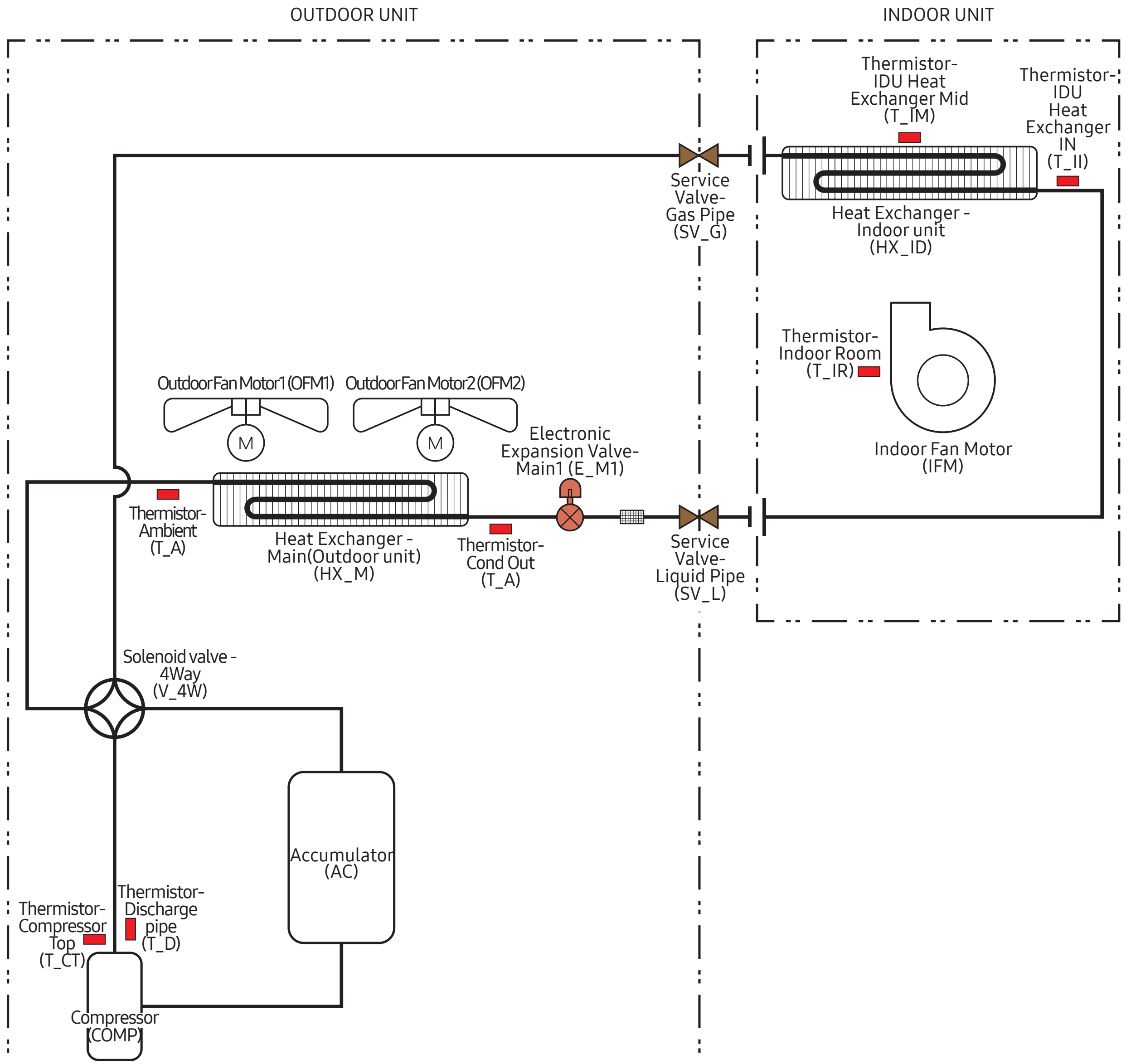


8. Piping Diagram

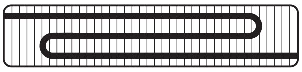
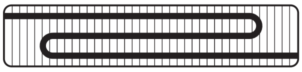
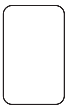
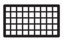
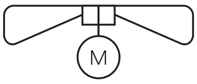
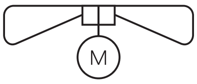
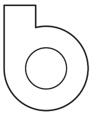
Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	OFM2 	Outdoor Fan Motor 2
	IFM 	Indoor Fan Motor

8. Piping Diagram

AC140MNCDKH/EU+AC140MXADKH/EU , AC140MNMDKH/EU+AC140MXADKH/EU
AC140MNCDKH/EU+AC140MXADNH/EU , AC140MNMDKH/EU+AC140MXADNH/EU

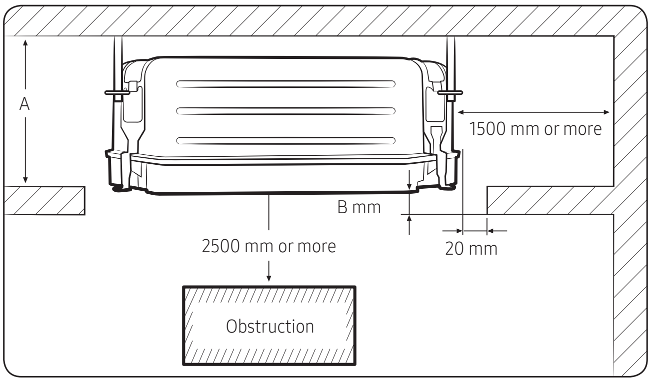


8. Piping Diagram

Category	Symbol	Description
Compressor		Comressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service Valve - Liquid Pipe
Thermistor	🟥 T_CT	Thermistor - Compressor Top
	🟥 T_D	Thermistor - Discharge pipe
	🟥 T_CO	Thermistor - Cond Out
	🟥 T_A	Thermistor - Ambient
	🟥 T_IR	Thermistor - Indoor Room
	🟥 T_IM	Thermistor - IDU Heat Exchanger Mid
	🟥 T_II	Thermistor - IDU Heat Exchanger In
Fan	OFM1 	Outdoor Fan Motor 1
	OFM2 	Outdoor Fan Motor 2
	IFM 	Indoor Fan Motor

1. 1Way & 4Way Cassette

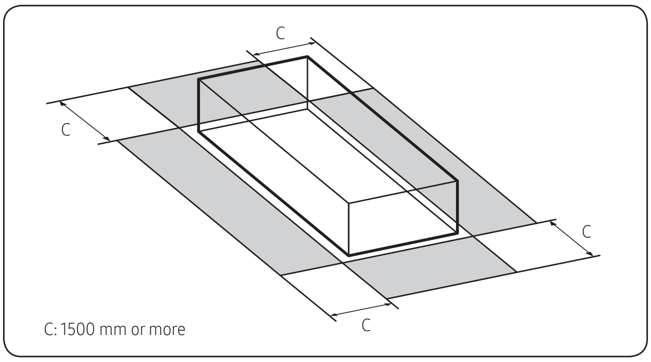
Spacing requirements



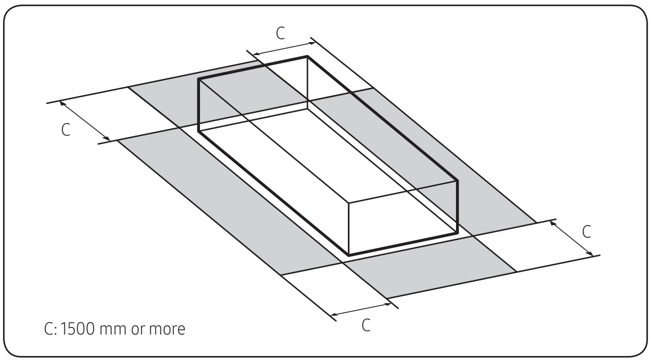
Model	AC052MN4DKH AC071MN4DKH	AC090MN4DKH AC100MN4DKH AC120MN4DKH AC140MN4DKH	AC026MN1DKH AC032MN1DKH
A	251	335	170
B	17	17	15

(Unit: mm)

1 way Cassette

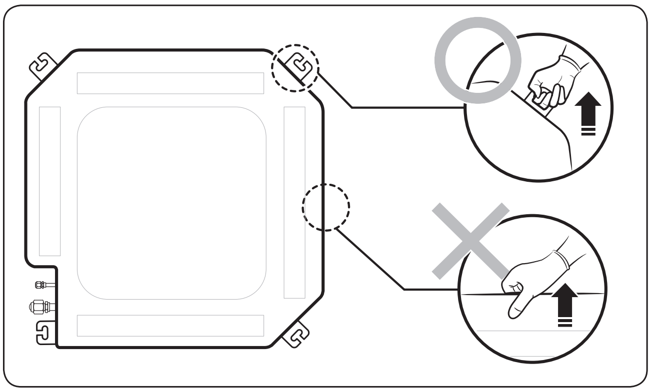


4 way Cassette



⚠ CAUTION

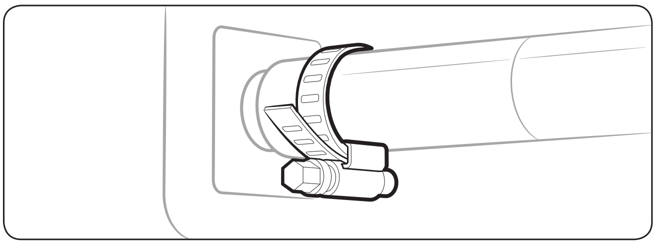
- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.



Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.

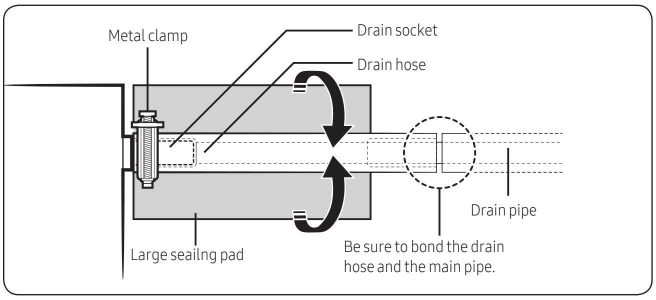
2 Tighten the metal clamp as shown in the picture.

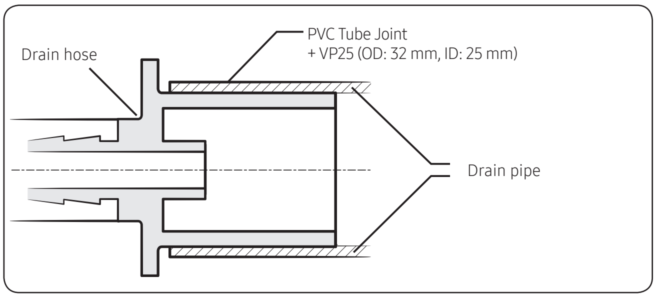


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

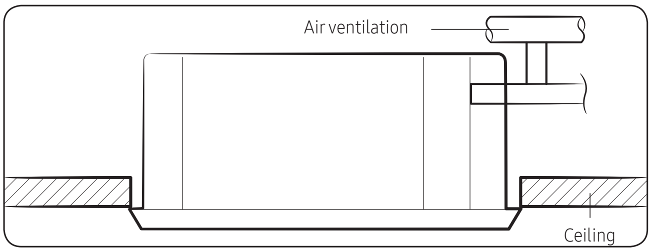




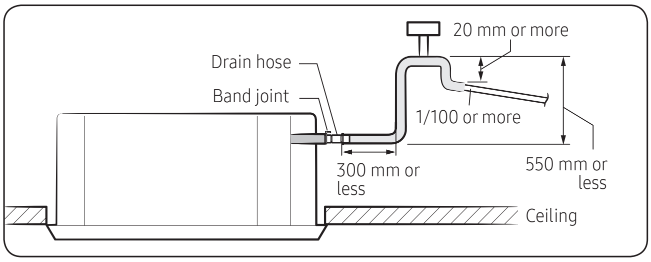
⚠ CAUTION

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

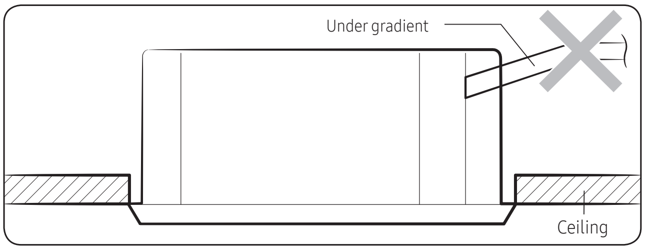
- Install air ventilation to drain condensation smoothly.



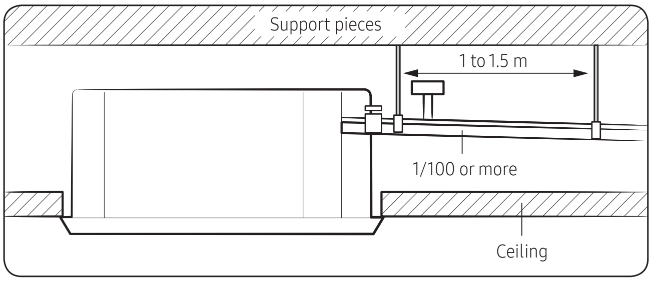
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



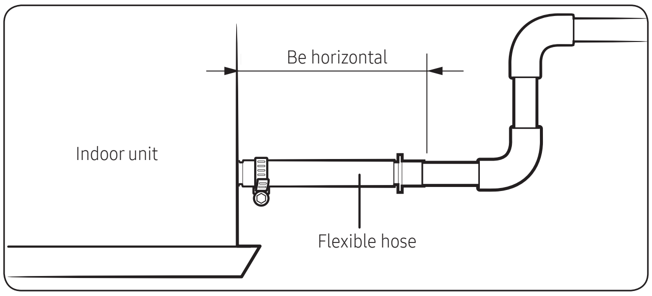
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



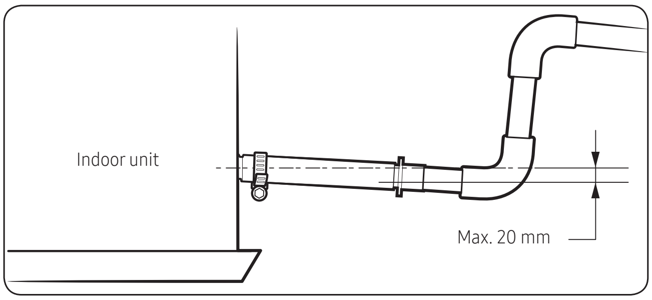
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



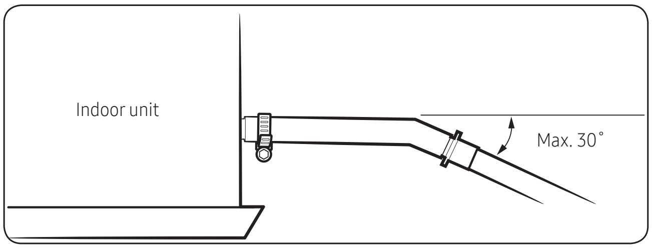
- Install horizontally.



- Max. allowable axis gap.

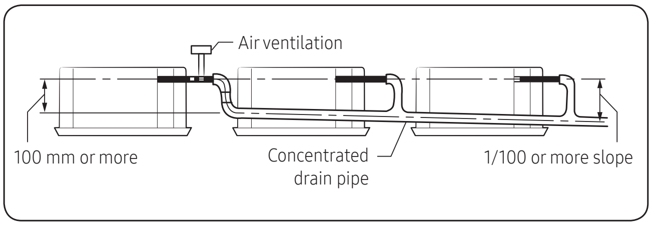


- Max. allowable bending angle.



NOTE

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



Connecting the power and communication cables

⚠ CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections.
  When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

⚠ CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

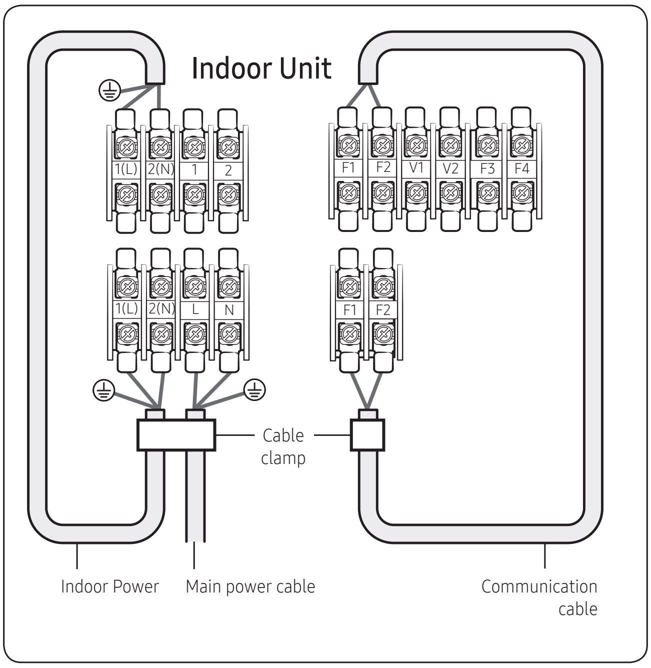
1 Remove the screw on the electrical component box and remove the cover plate.

2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.

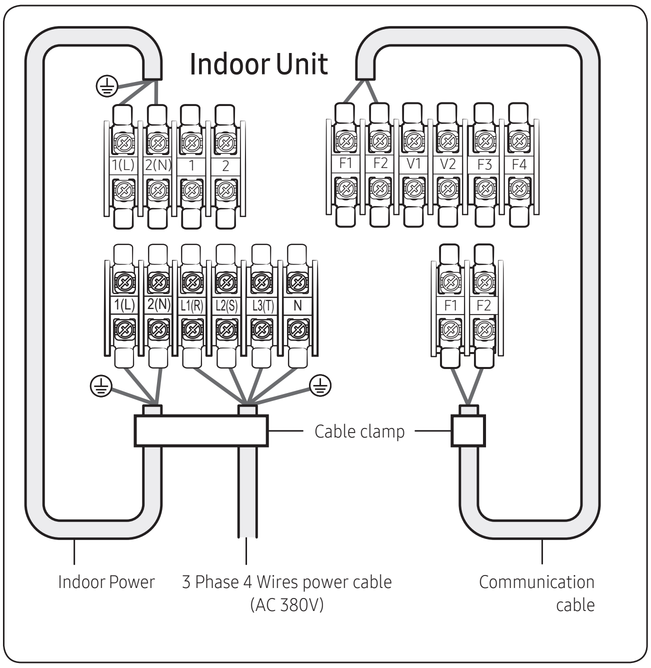
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.

4 Reassemble the electrical component box cover, carefully tightening the screw.

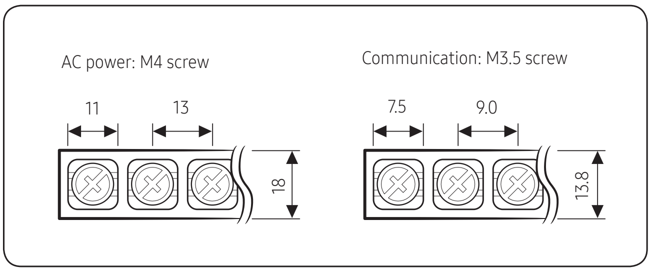
1 phase



3 phase



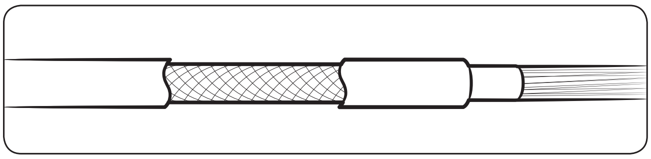
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		



Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

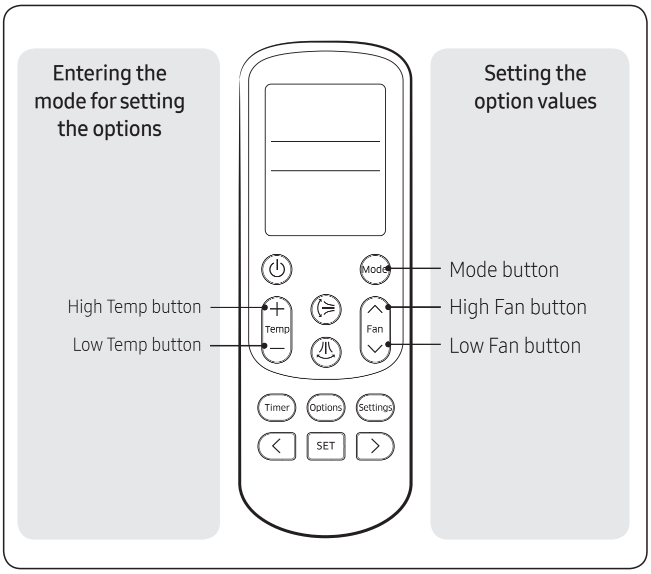
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

Setting an indoor unit address and installation option

You cannot set both of the indoor unit addresses and the installation options in a batch: set both of them respectively.

Common steps for setting the addresses and options

MR-EC00 and MR-EH00 remote controls



NOTE

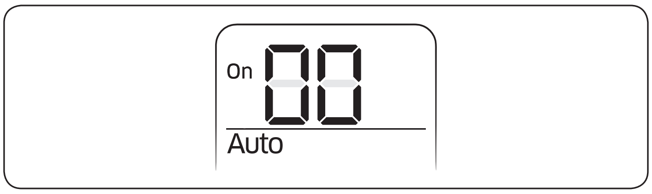
- The remote control display and buttons may vary depending on the model.

1 Enter the mode for setting the options:

  a Remove the batteries from the remote control, and then insert them again.

  b While holding down the + (High Temp) and − (Low Temp) buttons simultaneously, insert the batteries into the remote control.

  c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

⚠ CAUTION

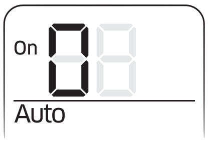
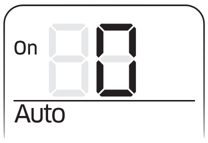
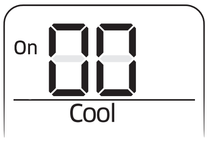
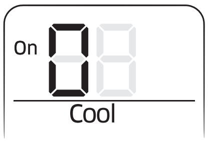
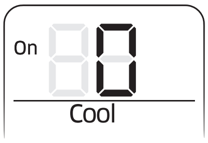
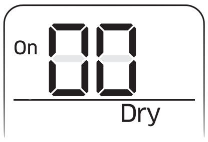
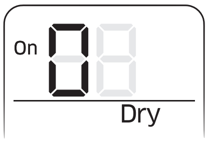
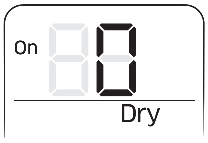
- The total number of available options are 24: **SEG1** to **SEG24**.
- Because **SEG1**, **SEG7**, **SEG13**, and **SEG19** are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: **SEG2** and **SEG3** → **SEG4** and **SEG5** → **SEG6** and **SEG8** → **SEG9** and **SEG10** → **SEG11** and **SEG12** → **SEG14** and **SEG15** → **SEG16** and **SEG17** → **SEG18** and **SEG20** → **SEG21** and **SEG22** → **SEG23** and **SEG24**

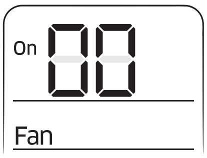
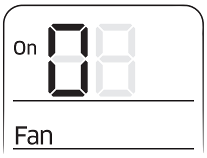
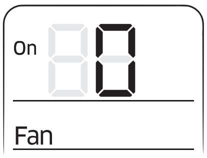
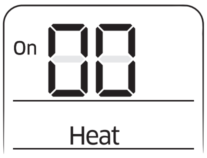
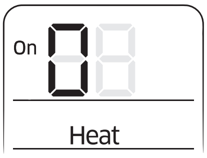
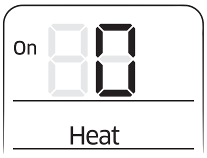
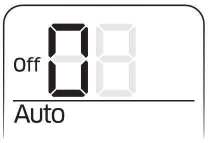
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

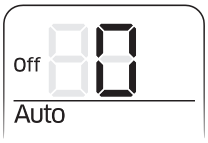
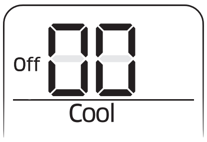
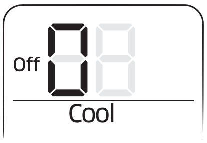
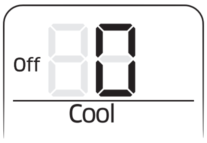
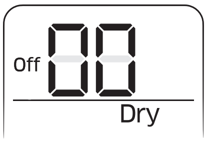
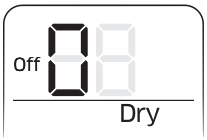
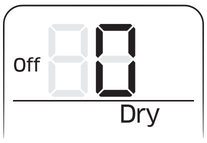
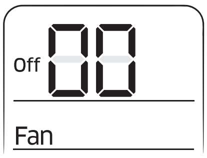
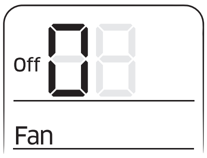
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
 On Auto	 Off Auto

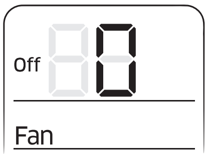
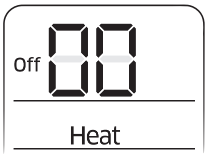
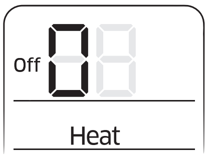
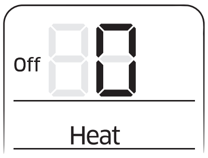
Setting an indoor unit address and installation option

Take the steps presented in the following table:

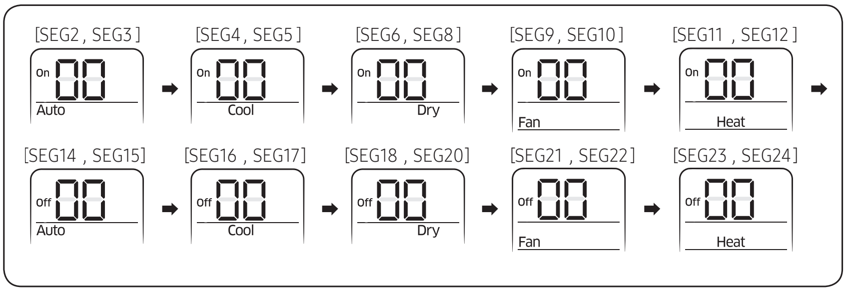
Steps	Remote control display
1 Set the **SEG2** and **SEG3** values:	
a Set the **SEG2** value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG2
b Set the **SEG3** value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG3
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
2 Press the (Mode) button. **Cool** and **On** appear on the remote control display.	
3 Set the **SEG4** and **SEG5** values:	
a Set the **SEG4** value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG4
b Set the **SEG5** value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG5
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
4 Press the (Mode) button. **Dry** and **On** appear on the remote control display.	
5 Set the **SEG6** and **SEG8** values:	
a Set the **SEG6** value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG6
b Set the **SEG8** value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG8
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	

Steps	Remote control display
6 Press the Mode (Mode) button. **Fan** and **On** appear on the remote control display.	
7 Set the **SEG9** and **SEG10** values: a Set the **SEG9** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the **SEG10** value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 ➞ 1 ➞ ··· E ➞ F	 SEG9  SEG10
8 Press the Mode (Mode) button. **Heat** and **On** appear on the remote control display.	
9 Set the **SEG11** and **SEG12** values: a Set the **SEG11** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the **SEG12** value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 ➞ 1 ➞ ··· E ➞ F	 SEG11  SEG12
10 Press the Mode (Mode) button. **Auto** and **Off** appear on the remote control display.	
11 Set the **SEG14** and **SEG15** values: a Set the **SEG14** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG14

Steps	Remote control display
b Set the **SEG15** value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG15
12 Press the Mode (Mode) button. **Cool** and **Off** appear on the remote control display.	
13 Set the **SEG16** and **SEG17** values: a Set the **SEG16** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the **SEG17** value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG16  SEG17
14 Press the Mode (Mode) button. **Dry** and **Off** appear on the remote control display.	
15 Set the **SEG18** and **SEG20** values: a Set the **SEG18** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the **SEG20** value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG18  SEG20
16 Press the Mode (Mode) button. **Fan** and **Off** appear on the remote control display.	
17 Set the **SEG21** and **SEG22** values: a Set the **SEG21** value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG21

Steps	Remote control display
b Set the **SEG22** value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG22
18 Press the (Mode) button. **Heat** and **Off** appear on the remote control display.	
19 Set the **SEG23** and **SEG24** values: a Set the **SEG23** value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the **SEG24** value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the (Mode) button repeatedly



4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the (Power) button again.

5 Check whether the air conditioner operates in accordance with the option values you have set:

a Reset the indoor or outdoor unit.

- Indoor unit : Press the SET (Set) and Fan (Low Fan) buttons on the remote control simultaneously for 4 seconds.
- Outdoor unit : Press the **K3** button.

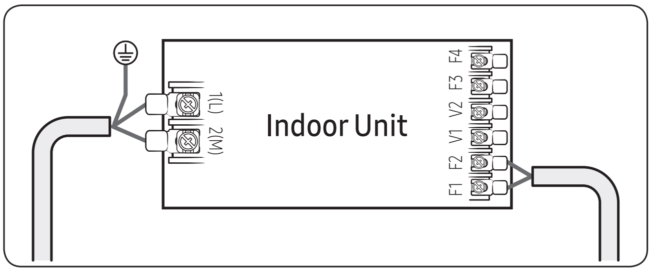
b Remove the batteries from the remote control, insert them again, and then press the ⏻ (Power) button on the remote control.

Setting the indoor unit addresses

Option No. for an indoor unit address: 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Before installing an indoor unit, be sure to set an address for the indoor unit by taking the following steps:

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2 Set an address for each indoor unit using the remote control, according to your air conditioning system plan, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.

- The indoor unit addresses (main and RMC addresses) are set to 0A0000-100000-200000-300000 by default.
- If indoor units and outdoor units match 1:1, you don’t need to set the main address because it is automatically set by the outdoor unit.
- If you are using on or off controller, set RMC address.

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Function	Page		Mode		Setting main address		Reserved	Indoor unit number		Indoor unit number	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details
	0		A		0	No main address		0 to 1	Tens digit	0 to 9	Units digit
					1	Main address setting mode					
Option	**SEG7**		**SEG8**		**SEG9**		**SEG10**	**SEG11**		**SEG12**	
Function	Page		Reserved		Setting RMC address		Reserved	Group channel (x16)		Group address	
Indication and details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0 to 2	RMC2	0 to F
					1	RMC address setting mode					

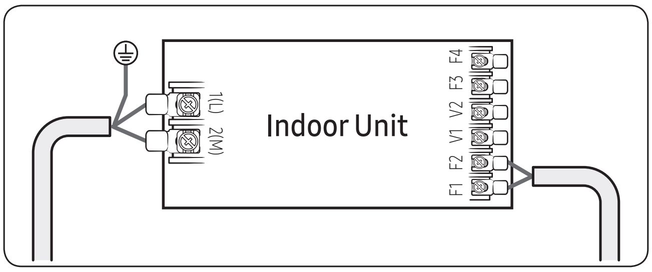
⚠ CAUTION

- The main address must be set to a value in the range 0 to 14. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing main address even if SEG6 is set to a new value.
- If SEG9 is set 0, the indoor unit maintains the existing RMC address even if SEG11 and SET12 are set to new values.

Setting the installation options in a batch

Option No. for an indoor unit address: 02XXXX-1XXXXX-2XXXXX-3XXXXX

1. Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2. Set the installation options of indoor units, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.
    - The installation options of indoor units are set to 020000-100000-200000-300000 by default.
    - The **SEG20** option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6	
Function	Page		Mode		Reserved	Use of external temperature sensor		Use of central control		Compensation of the fan RPM	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details
	0		2			0	Disuse	0	Disuse	0	Disuse (recessed installation)
										1	High-ceiling mode (recessed installation)
						1	Use	1	Use	4	Disuse (exposed installation)
										5	High-ceiling mode (exposed installation)

Installation

Option	SEG7		SEG8		SEG9	SEG10	SEG11	SEG12
Function	Page		Use of drain pump		Reserved	Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details				
	1		0	Disuse				
			1	Use				
			2	Use with 3 minute delay				

Option	SEG13		SEG14			SEG15		SEG16		SEG17		SEG18	
Function	Page		Use of external control			Setting the output of external control		S-Plasma ion		Buzzer control		Maximum filter usage time	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	Slave (disable Level control*)	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 hours
			1	On/Off control									
			2	Off control									
			3	Window on/off control									
			4	Disuse	Master (enable Level control*)	1	Operation on	1	Use	1	Disuse of buzzer	6	2000 hours
			5	On/Off control									
			6	Off control									
			7	Window on/off control									

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24	
Function	Page		Individual control with remote control		Heating setting compensation		Reserved	Reserved	Cycle time of Swing	
Indication and details	Indication	Details	Indication	Details	Indication	Details			Indication	Details
	3		0 or 1	Indoor 1	0	Default			0	34 seconds (default)
			2	Indoor 2	1	2°C			1	30 seconds
			3	Indoor 3	2	5°C			2	38 seconds
			4	Indoor 4						

- Even if you set the Use of drain pump (SEG8) option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1).
- Default value of Heating setting compensation (SEG21) is 5°C for 360 cassette model.

* Level control: The centralized controller can limit the functions and inputs of connected products with this function enabled. (Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit)
To enable 'Level control' when applying the DPM with the centralized controller, appoint the master (Set 'Use of external control [SEG14] option to 4 or higher).

Example: When installing DPM (1 Outdoor unit with 4 indoor units)

Condition		SEG14 Setting				Result
External control	**Level control**	**Indoor 1**	**Indoor 2**	**Indoor 3**	**Indoor 4**	
Default		Not set (0)				Slave (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor 1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor 1,2,3)

Changing the addresses and options individually

When you want to change the value of a specific option, refer to the following table and follow the steps in **Common steps for setting the addresses and options**.

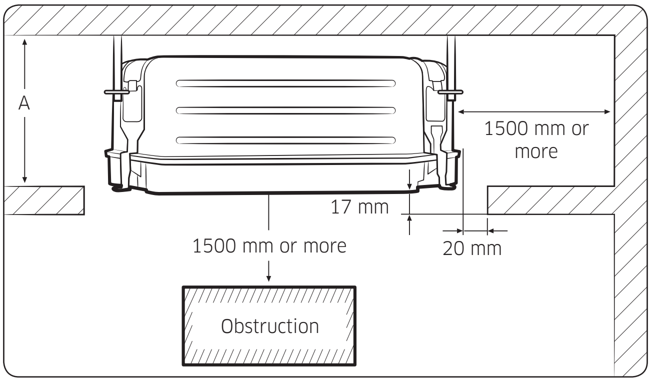
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Function	Page		Mode		Option mode to change		Tens position of the option number		Units position of the option number		New value	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

Example: Changing the Buzzer control (**SEG17**) option of the installation options to 1 disuse.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Function	Page	Mode	Option mode to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

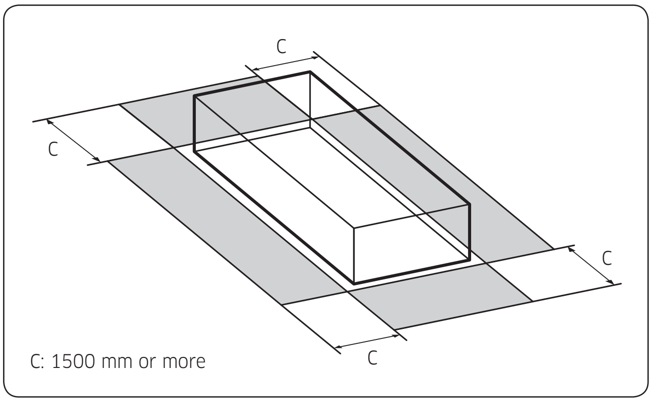
2. 4Way Cassette (600 x 600)

Spacing requirements



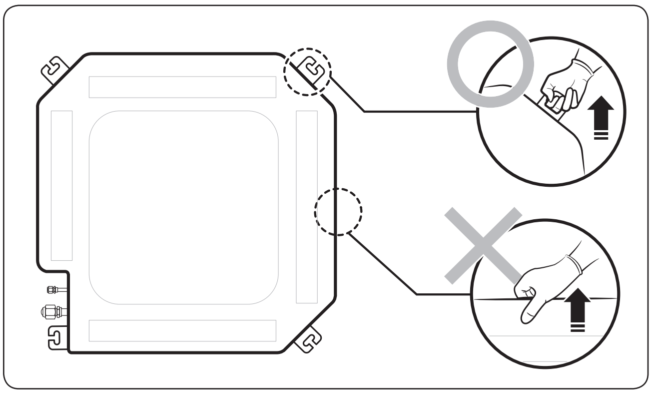
Model	AC026MNNDKH AC035MNNDKH AC052MNNDKH AC060MNNDKH AC071MNNDKH
A	297

(Unit: mm)



⚠ CAUTION

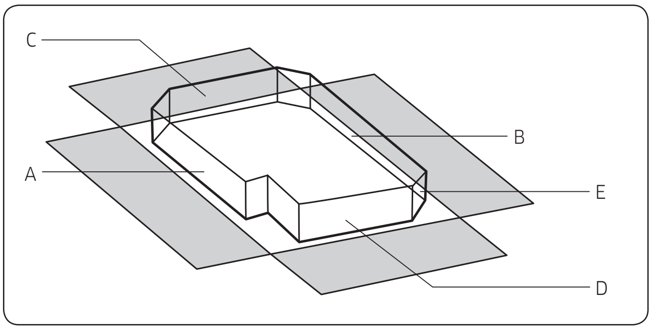
- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage.
- You must hold the hanger plate on the corner and carry the indoor unit.



Step 3 Optional: Insulating the body of the indoor unit

If you install a cassette type indoor unit on the ceiling when temperature is over 27°C and humidity is over 80%, you must apply an extra 10 mm thick polyethylene insulation or a similar type of insulation to the body of the indoor unit.

Cut away the part where pipes are pulled out for the insulating work.



Insulate the end of the pipe and some curved area by using separate insulator.

NOTE

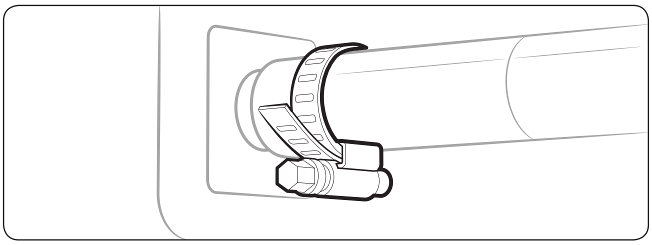
- A: Reference for the outer circumference of the unit
  (When insulating the body of the indoor unit, use A as the reference for its outer circumference.)

A	B	C	D	E
400X190	400X190	400X190	400X190	550X550

Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.

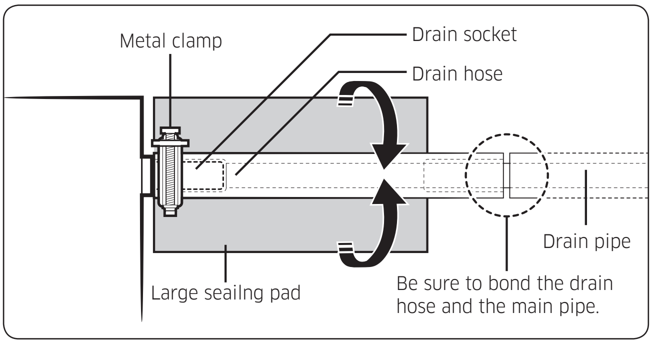
2 Tighten the metal clamp as shown in the picture.

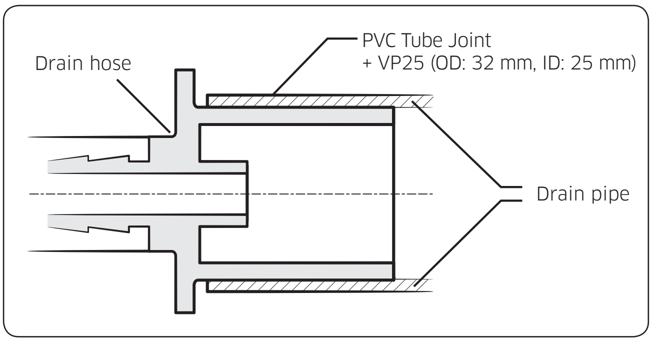


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

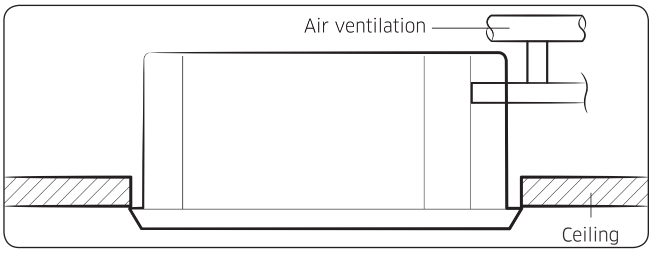




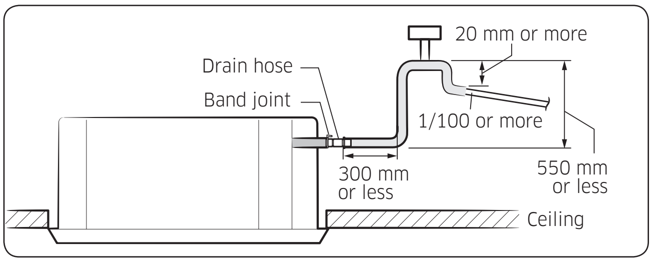
⚠ CAUTION

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

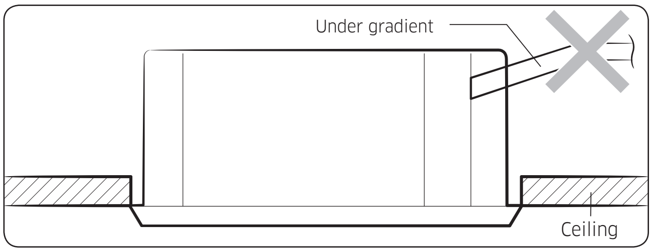
- Install air ventilation to drain condensation smoothly.



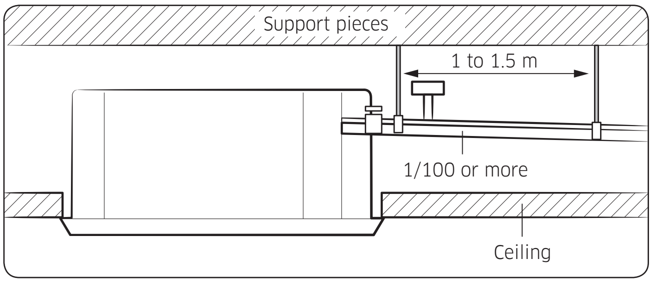
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



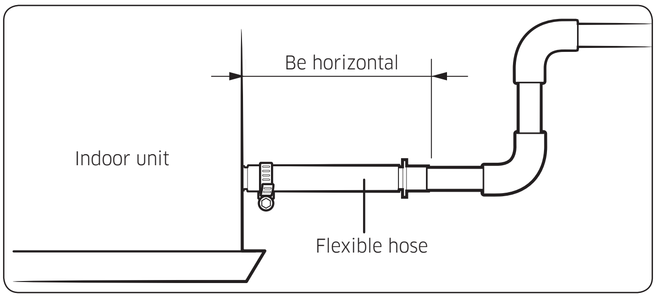
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



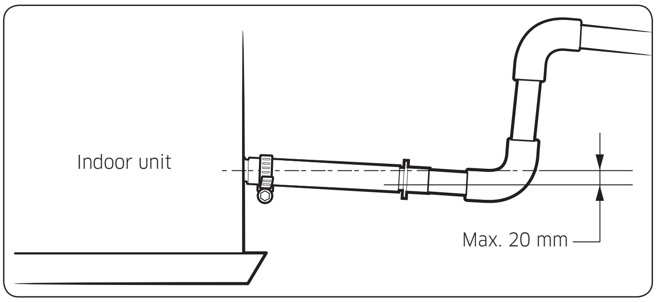
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



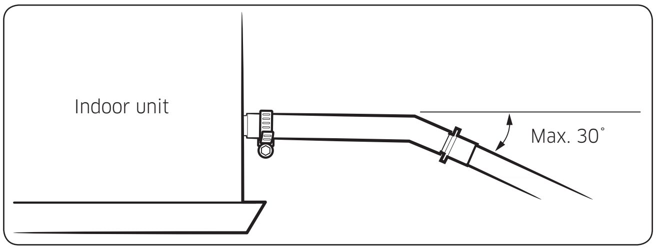
- Install horizontally.



- Max. allowable axis gap.

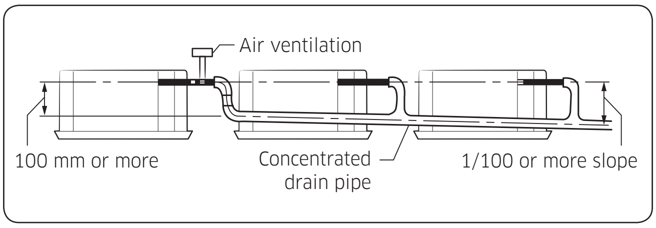


- Max. allowable bending angle.



NOTE

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



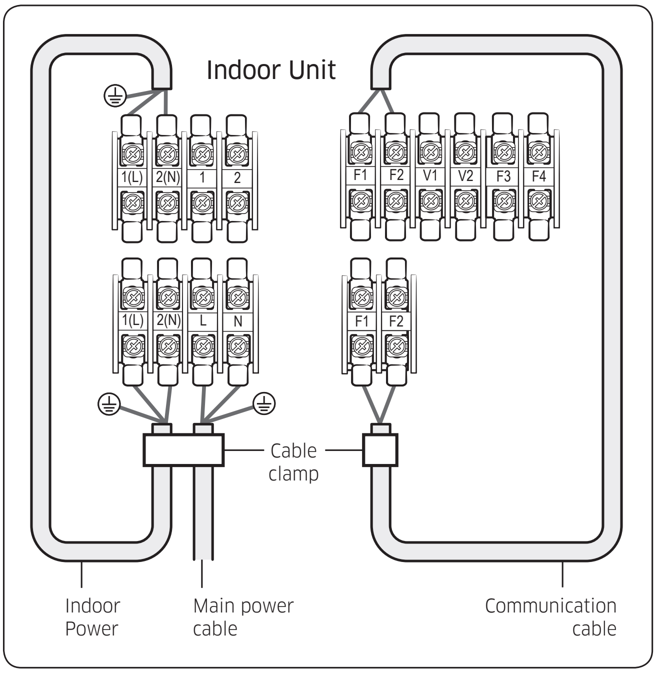
Connecting the power and communication cables

CAUTION

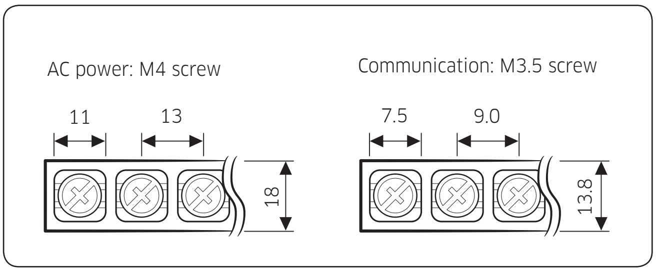
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

1. Remove the screw on the electrical component box and remove the cover plate.
2. Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3. Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
4. Reassemble the electrical component box cover, carefully tightening the screw.



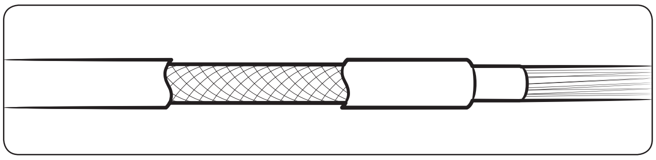
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm^2 ↑, 3 wires
Communication cable		
0.75 to 1.5 mm^2, 2 wires		



Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

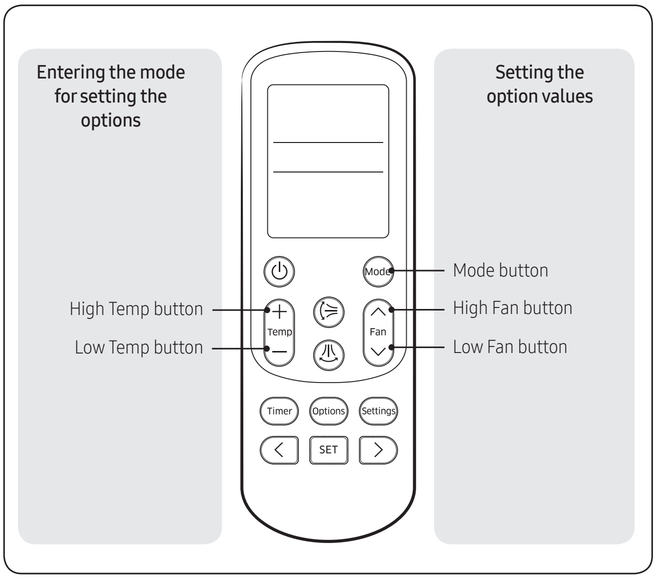
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

Connecting the power and communication

You cannot set both of the indoor unit addresses and the installation options in a batch: set both of them respectively.

Common steps for setting the addresses and options

MR-EC00 and MR-EH00 remote controls



NOTE

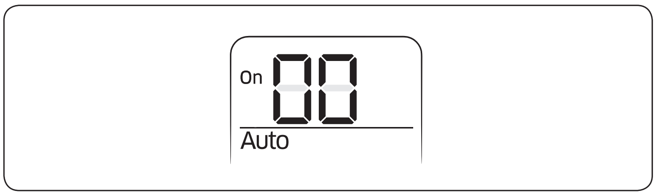
- The remote control display and buttons may vary depending on the model.

1 Enter the mode for setting the options:

   a Remove the batteries from the remote control, and then insert them again.

   b While holding down the [+ Temp] (High Temp) and [Temp −] (Low Temp) buttons simultaneously, insert the batteries into the remote control.

   c Make sure that you are entered to the mode for setting the options:

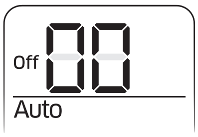


2 Set the option values.

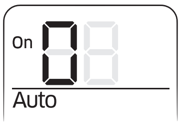
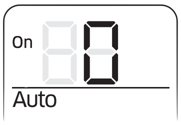
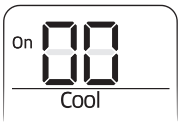
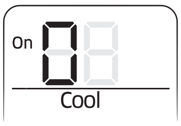
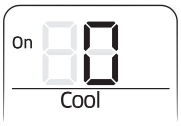
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

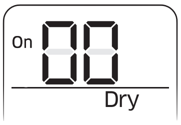
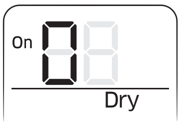
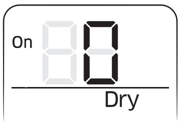
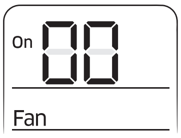
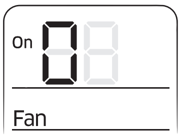
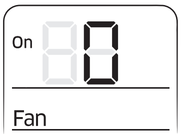
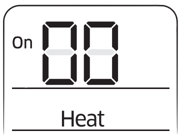
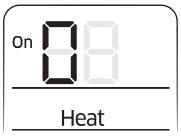
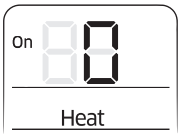
⚠ CAUTION

- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

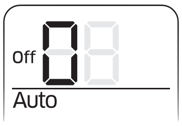
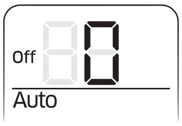
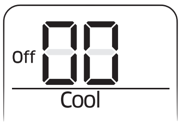
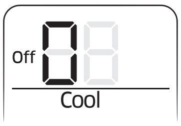
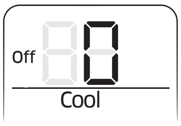
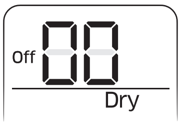
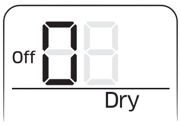
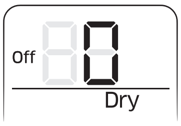
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

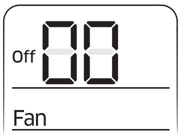
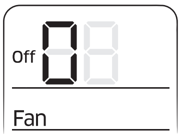
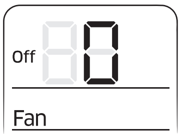
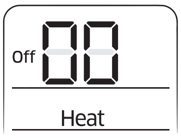
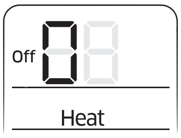
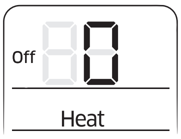
Take the steps presented in the following table:

Steps	Remote control display
1 Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG3 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG2  SEG3
2 Press the Mode (Mode) button. **Cool** and **On** appear on the remote control display.	
3 Set the SEG4 and SEG5 values: a Set the SEG4 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG5 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG4  SEG5

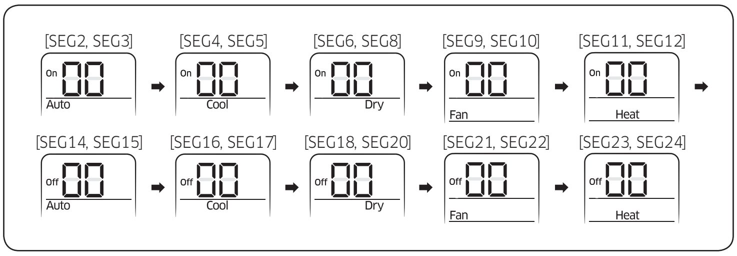
Steps	Remote control display
4 Press the Mode (Mode) button. **Dry** and **On** appear on the remote control display.	
5 Set the SEG6 and SEG8 values: a Set the SEG6 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG8 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG6  SEG8
6 Press the Mode (Mode) button. **Fan** and **On** appear on the remote control display.	
7 Set the SEG9 and SEG10 values: a Set the SEG9 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG10 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG9  SEG10
8 Press the Mode (Mode) button. **Heat** and **On** appear on the remote control display.	
9 Set the SEG11 and SEG12 values: a Set the SEG11 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG12 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG11  SEG12

Installation

Steps	Remote control display
10 Press the (Mode) button. **Auto** and **Off** appear on the remote control display.	
11 Set the SEG14 and SEG15 values: a Set the SEG14 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG15 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG14  SEG15
12 Press the (Mode) button. **Cool** and **Off** appear on the remote control display.	
13 Set the SEG16 and SEG17 values: a Set the SEG16 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG17 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG16  SEG17
14 Press the (Mode) button. **Dry** and **Off** appear on the remote control display.	
15 Set the SEG18 and SEG20 values: a Set the SEG18 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG20 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG18  SEG20

Steps	Remote control display
16 Press the (Mode) button. **Fan** and **Off** appear on the remote control display.	
17 Set the SEG21 and SEG22 values: a Set the SEG21 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG22 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG21  SEG22
18 Press the (Mode) button. **Heat** and **Off** appear on the remote control display.	
19 Set the SEG23 and SEG24 values: a Set the SEG23 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG24 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the (Mode) button repeatedly



4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the (Power) button again.

5 Check whether the air conditioner operates in accordance with the option values you have set:

a Reset the indoor or outdoor unit.

- Indoor unit : Press the SET (Set) and Fan (Low Fan) buttons on the remote control simultaneously for 4 seconds.
- Outdoor unit : Press the K3 button.

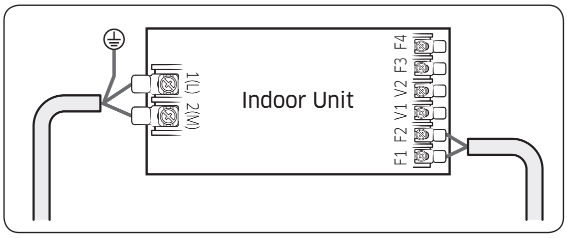
b Remove the batteries from the remote control, insert them again, and then press the ⏻ (Power) button on the remote control.

Setting the indoor unit addresses

Option No. for an indoor unit address: 0AXXXX-1XXXXX-2XXXXX-3XXXXX

Before installing an indoor unit, be sure to set an address for the indoor unit by taking the following steps:

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2 Set an address for each indoor unit using the remote control, according to your air conditioning system plan, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.

- The indoor unit addresses (main and RMC addresses) are set to 0A0000-100000-200000-300000 by default.
- If indoor units and outdoor units match 1:1, you don't need to set the main address because it is automatically set by the outdoor unit.
- If you are using on or off controller, set RMC address.

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Function	Page		Mode		Setting main address		Reserved	Reserved		Indoor unit number	
Indication and details	Indication	Details	Indication	Details	Indication	Details				Indication	Details
	0		A		0	No main address				0 to 9	Units digit
					1	Main address setting mode					
Option	**SEG7**		**SEG8**		**SEG9**		**SEG10**	**SEG11**		**SEG12**	
Function	Page		Reserved		Setting RMC address		Reserved	Group channel (x16)		Group address	
Indication and details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0 to 2	RMC2	0 to F
					1	RMC address setting mode					

⚠ CAUTION

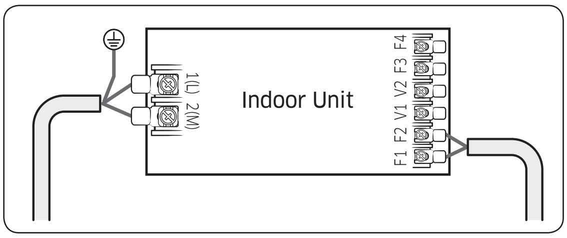
- The main address must be set to a value in the range 0 to 14. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing main address even if SEG6 is set to a new value.
- If SEG9 is set 0, the indoor unit maintains the existing RMC address even if SEG11 and SET12 are set to new values.

Installation

Setting the installation options in a batch

Option No. for an indoor unit address: 02XXXX-1XXXXX-2XXXXX-3XXXXX

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2 Set the installation options of indoor units, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.

- The installation options of indoor units are set to 020000-100000-200000-300000 by default.
- The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6	
Function	Page		Mode		Reserved	Use of external temperature sensor		Use of central control		Compensation of the fan RPM	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details
	0		2			0	Disuse	0	Disuse	0	Disuse (recessed installation)
										1	High-ceiling mode (recessed installation)
						1	Use	1	Use	4	Disuse (exposed installation)
										5	High-ceiling mode (exposed installation)

Option	SEG7		SEG8		SEG9	SEG10	SEG11	SEG12
Function	Page		Use of drain pump		Reserved	Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details				
	1		0	Disuse				
			1	Use				
			2	Use with 3 minute delay				

Option	SEG13		SEG14			SEG15		SEG16		SEG17		SEG18	
Function	Page		Use of external control			Setting the output of external control		S-Plasma ion		Buzzer control		Maximum filter usage time	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	Slave (disable Level control*)	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 hours
			1	On/Off control									
			2	Off control									
			3	Window on/off control									
			4	Disuse	Master (enable Level control*)	1	Operation on	1	Use	1	Disuse of buzzer	6	2000 hours
			5	On/Off control									
			6	Off control									
			7	Window on/off control									

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24	
Function	Page		Individual control with remote control		Heating setting compensation		Reserved	Reserved	Cycle time of Swing	
Indication and details	Indication	Details	Indication	Details	Indication	Details			Indication	Details
	3		0 or 1	Indoor 1	0	Default			0	34 seconds (default)
			2	Indoor 2	1	2°C			1	30 seconds
			3	Indoor 3	2	5°C			2	38 seconds
			4	Indoor 4						

- Even if you set the Use of drain pump (SEG8) option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1).
- Default value of Heating setting compensation (SEG21) is 5°C for 360 cassette model.

* Level control: The centralized controller can limit the functions and inputs of connected products with this function enabled. (Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit)
To enable 'Level control' when applying the DPM with the centralized controller, appoint the master (Set 'Use of external control [SEG14] option to 4 or higher).

Example: When installing DPM (1 Outdoor unit with 4 indoor units)

Condition		SEG14 Setting				Result
External control	Level control	Indoor 1	Indoor 2	Indoor 3	Indoor 4	
Default		Not set (0)				Slave (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor 1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor 1,2,3)

Changing the addresses and options individually

When you want to change the value of a specific option, refer to the following table and follow the steps in **Common steps for setting the addresses and options.**

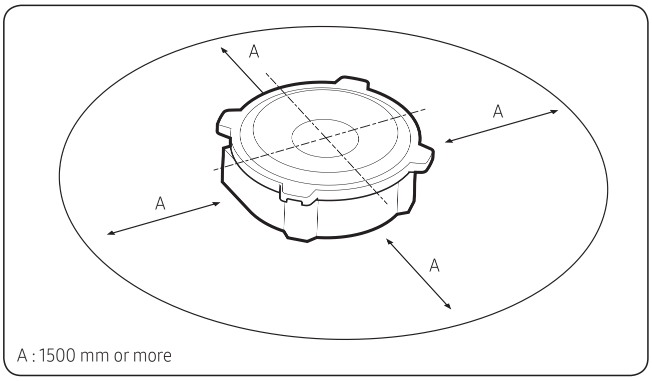
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Function	Page		Mode		Option mode to change		Tens position of the option number		Units position of the option number		New value	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

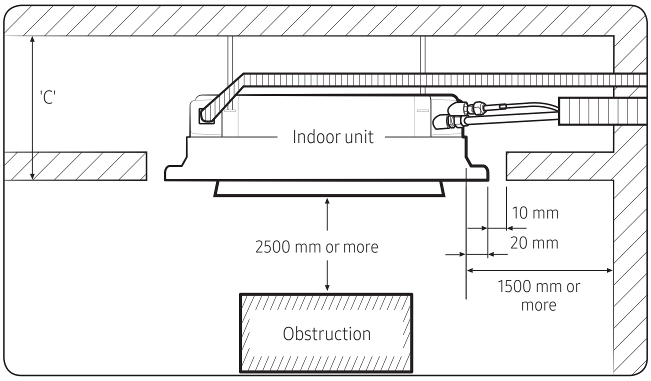
Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Function	Page	Mode	Option mode to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

3. 360 Cassette

Spacing requirements





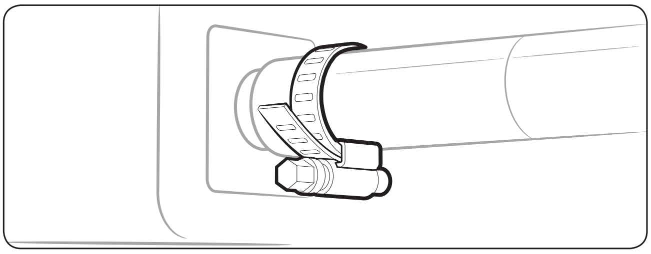
(Unit: mm)

Model	AC071MN4PKH	AC090MN4PKH	AC100MN4PKH	AC120MN4PKH	AC140MN4PKH
C	261	261	345	345	345

Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.

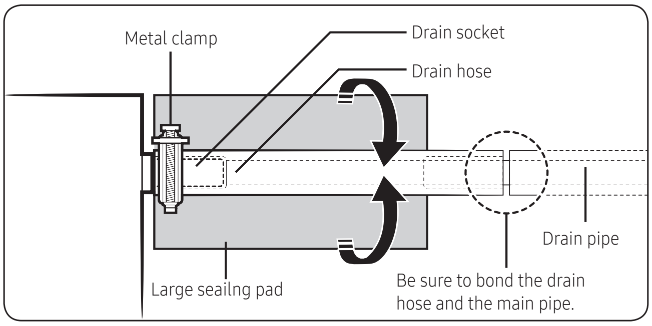
2 Tighten the metal clamp as shown in the picture.

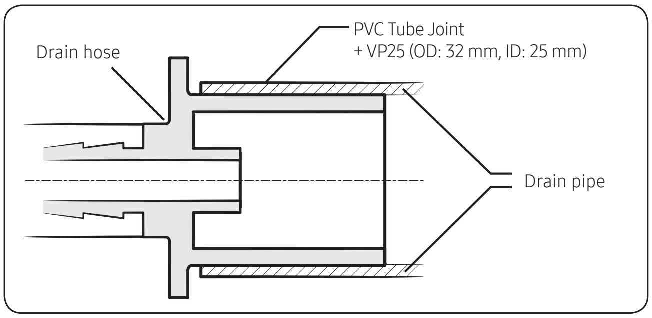


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

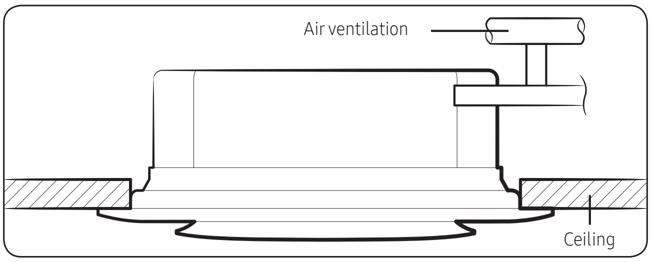




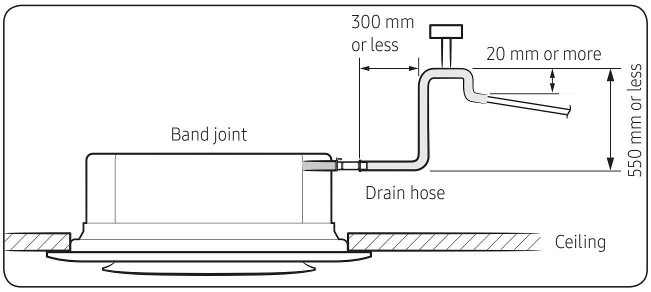
⚠ CAUTION

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

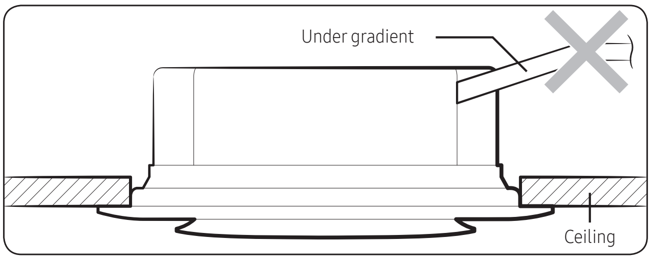
- Install air ventilation to drain condensation smoothly.



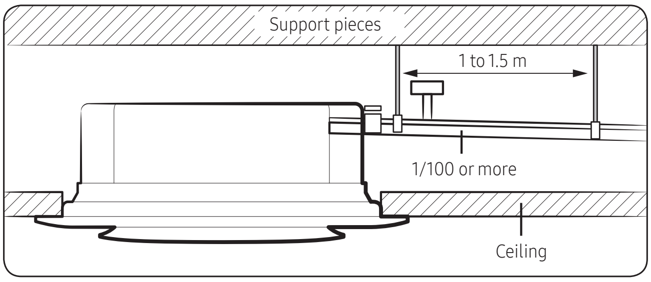
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



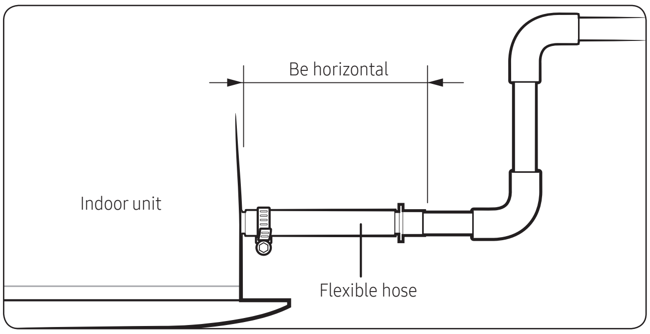
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



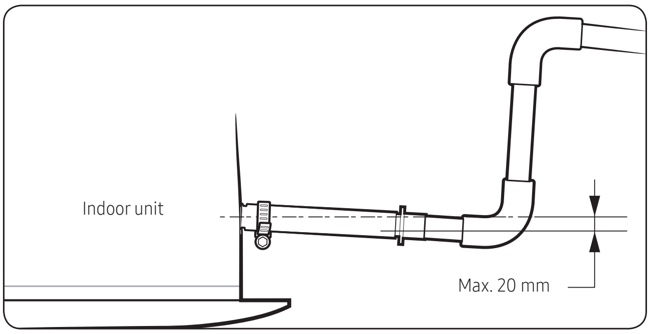
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



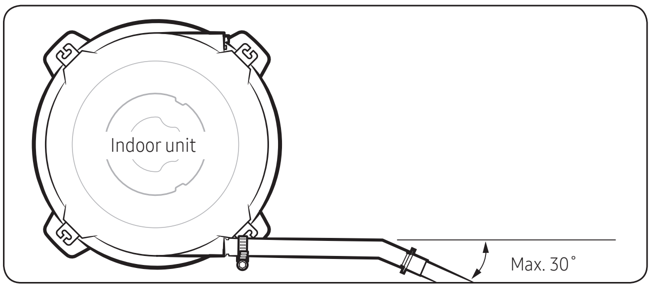
- Install horizontally.



- Max. allowable axis gap.

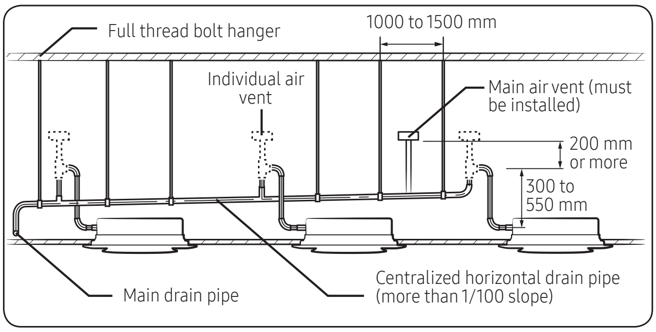


- Max. allowable bending angle.



NOTE

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



Connecting the power and communication cables

⚠ CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections.
  When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

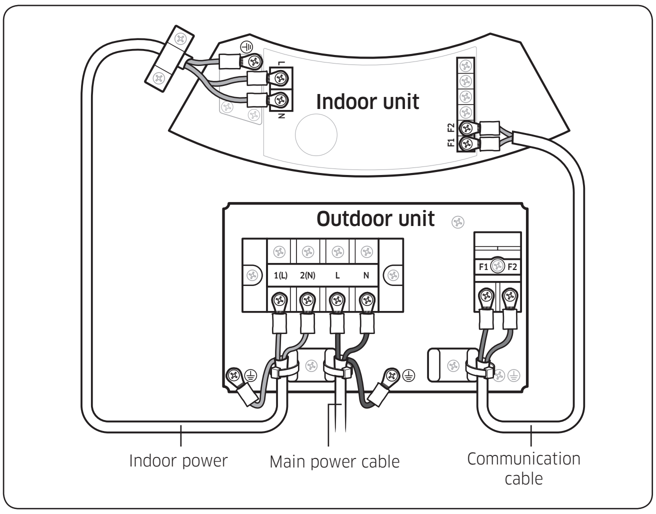
⚠ CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

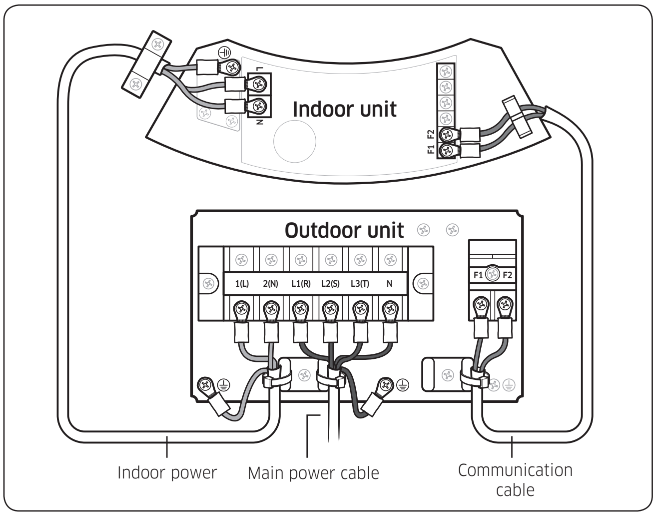
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

1. Remove the screw on the electrical component box and remove the cover plate.
2. Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3. Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
4. Reassemble the electrical component box cover, carefully tightening the screw.

Wiring terminals) 1 phase

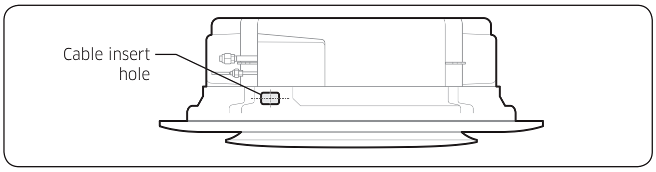


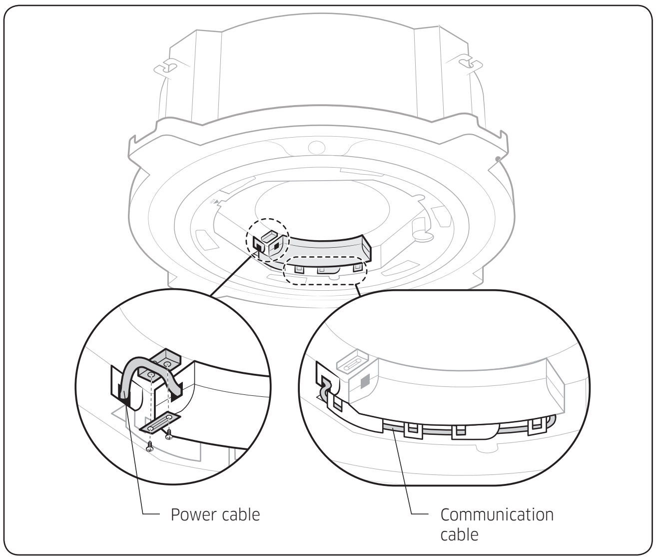
Wiring terminals) 3 phase



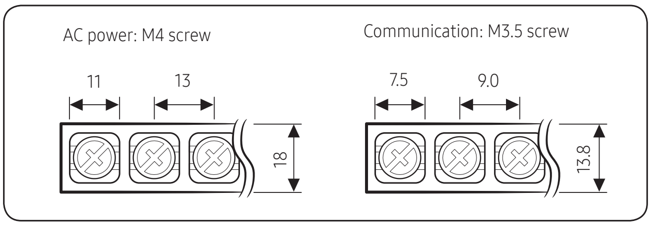
NOTE

- Insert the power and the communication cables to the cable insert hole, then arrange and connect the cables, as shown in the figure:





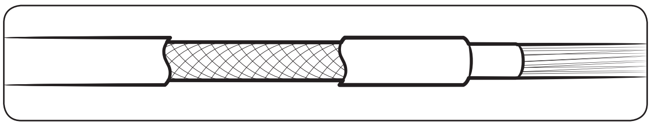
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		



Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

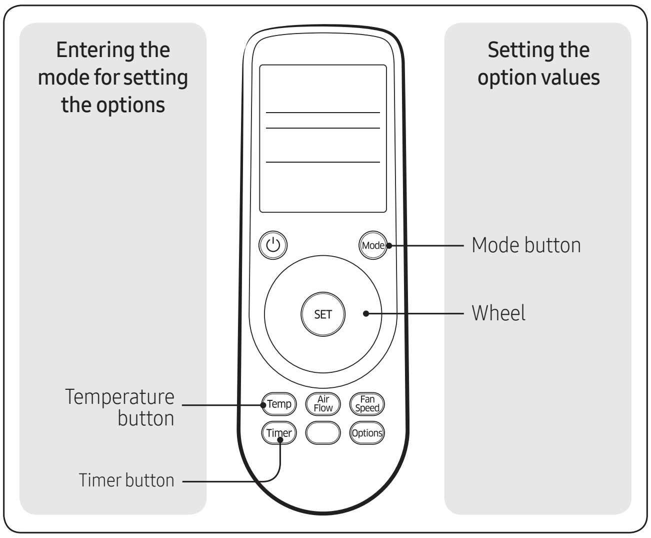
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

Setting an indoor unit address and installation options

You cannot set both of the indoor unit addresses and the installation options in a batch: set both of them respectively.

Common steps for setting the addresses and options

AR-KH00E remote control (for 360 cassette only)



NOTE

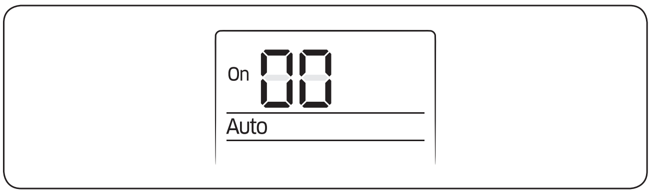
- The remote control display may vary depending on the model.

1 Enter the mode for setting the options:

   a Remove the batteries from the remote control.

   b While holding down the Temp (Temp) and Timer (Timer) buttons simultaneously, insert the batteries into the remote control.

   c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

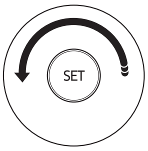
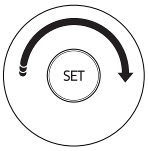
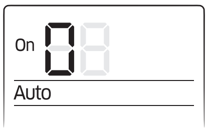
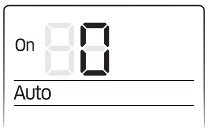
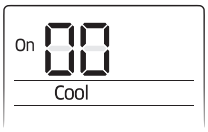
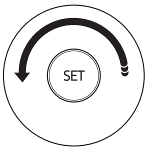
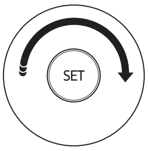
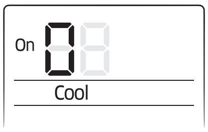
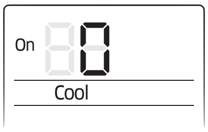
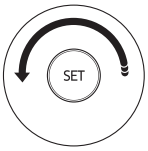
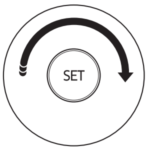
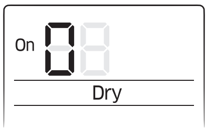
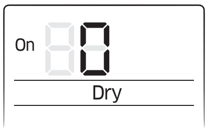
⚠ CAUTION

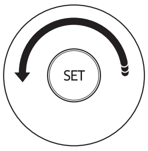
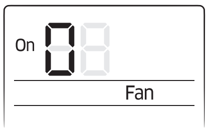
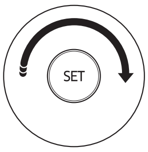
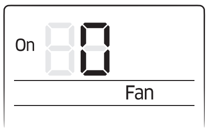
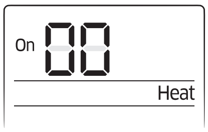
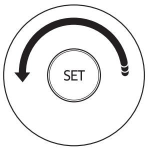
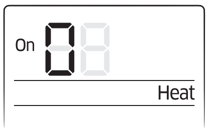
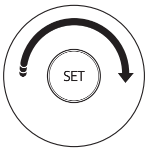
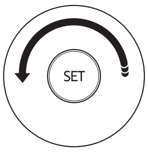
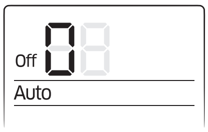
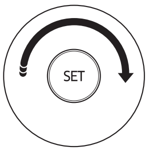
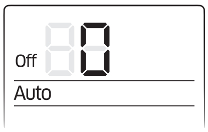
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

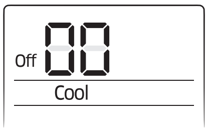
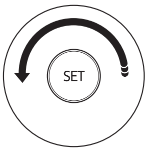
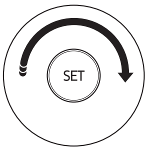
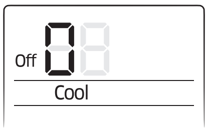
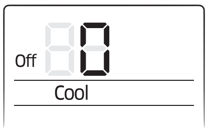
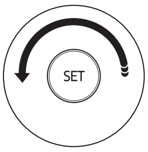
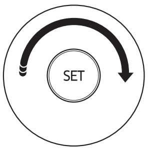
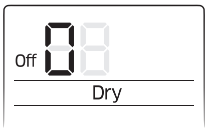
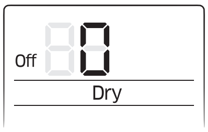
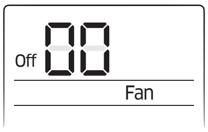
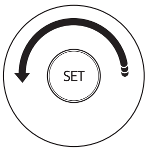
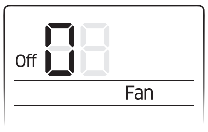
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

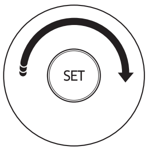
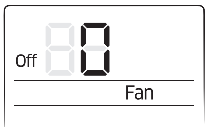
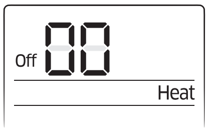
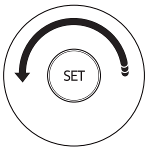
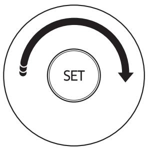
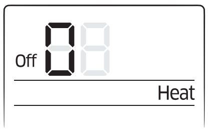
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
 On 00 Auto	 Off 00 Auto

Take the steps presented in the following table:

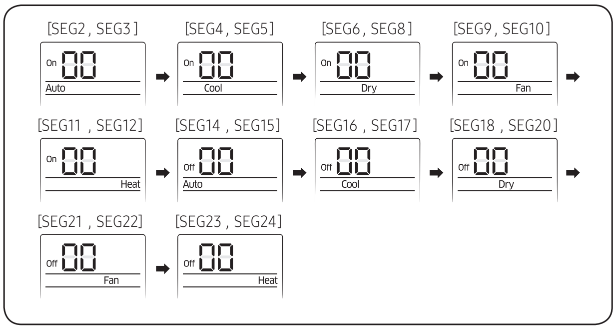
Steps	Remote control display
1 Set the SEG2 and SEG3 values: a Set the SEG2 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG3 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG2  SEG3
2 Press the Mode (Mode) button. **Cool** and **On** appear on the remote control display.	
3 Set the SEG4 and SEG5 values: a Set the SEG4 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG5 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG4  SEG5
4 Press the Mode (Mode) button. **Dry** and **On** appear on the remote control display.	
5 Set the SEG6 and SEG8 values: a Set the SEG6 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG8 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG6  SEG8

Steps		Remote control display
6 Press the Mode (Mode) button. **Fan** and **On** appear on the remote control display.		
7 Set the SEG9 and SEG10 values:		
a Set the SEG9 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.		 SEG9
b Set the SEG10 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.		 SEG10
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F		
8 Press the Mode (Mode) button. **Heat** and **On** appear on the remote control display.		
9 Set the SEG11 and SEG12 values:		
a Set the SEG11 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.		 SEG11
b Set the SEG12 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.		 SEG12
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F		
10 Press the Mode (Mode) button. **Auto** and **Off** appear on the remote control display.		
11 Set the SEG14 and SEG15 values:		
a Set the SEG14 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.		 SEG14
b Set the SEG15 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.		 SEG15

Steps	Remote control display
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
12 Press the Mode (Mode) button. **Cool** and **Off** appear on the remote control display.	
13 Set the SEG16 and SEG17 values: a Set the SEG16 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG17 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG16  SEG17
14 Press the Mode (Mode) button. **Dry** and **Off** appear on the remote control display.	
15 Set the SEG18 and SEG20 values: a Set the SEG18 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG20 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG18  SEG20
16 Press the Mode (Mode) button. **Fan** and **Off** appear on the remote control display.	
17 Set the SEG21 and SEG22 values: a Set the SEG21 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. 	 SEG21

Steps	Remote control display
b Set the SEG22 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG22
18 Press the Mode (Mode) button. **Heat** and **Off** appear on the remote control display.	
19 Set the SEG23 and SEG24 values: a Set the SEG23 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  b Set the SEG24 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.  When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the Mode (Mode) button repeatedly



4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the ⏻ (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the ⏻ (Power) button again.

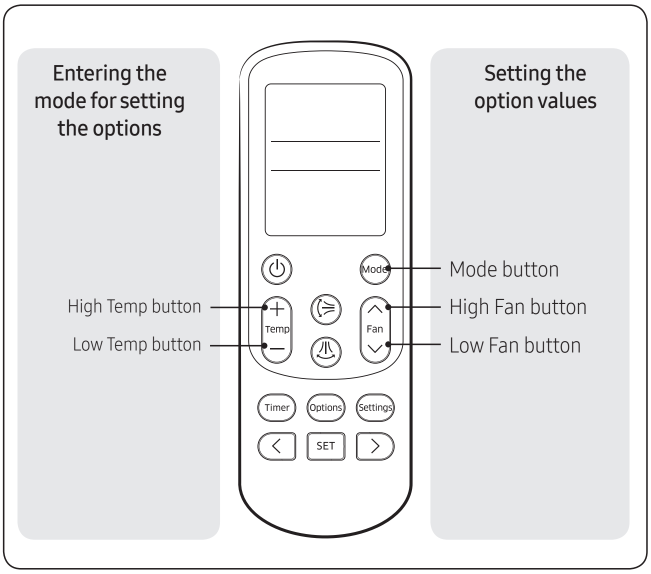
5 Check whether the air conditioner operates in accordance with the option values you have set:

a Reset the indoor or outdoor unit.

- Indoor unit : Press the SET (Set) and Options (Option) buttons on the remote control simultaneously for 4 seconds.
- Outdoor unit : Press the K3 button.

b Remove the batteries from the remote control, insert them again, and then press the ⏻ (Power) button on the remote control.

MR-EC00 and MR-EH00 remote controls



NOTE

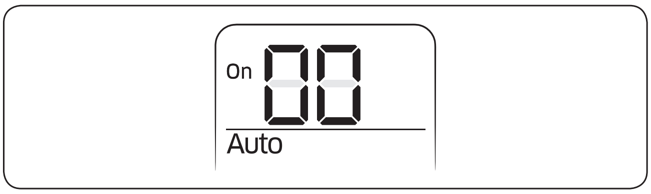
- The remote control display and buttons may vary depending on the model.

1 Enter the mode for setting the options:

  a Remove the batteries from the remote control, and then insert them again.

  b While holding down the + (High Temp) and − (Low Temp) buttons simultaneously, insert the batteries into the remote control.

  c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

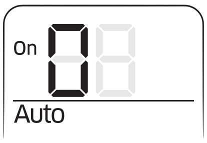
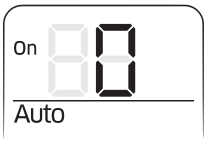
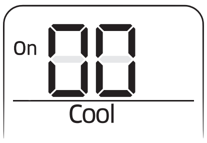
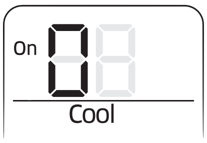
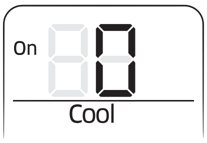
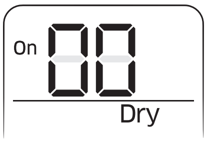
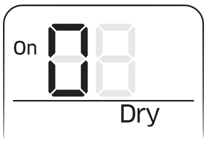
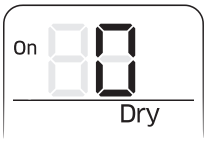
⚠ CAUTION

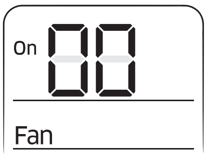
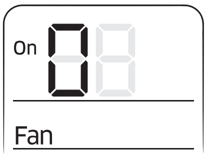
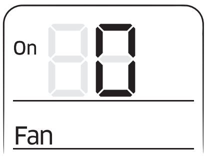
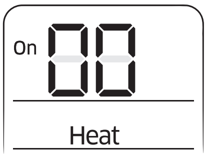
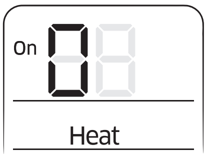
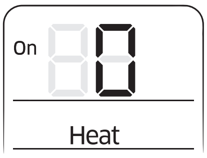
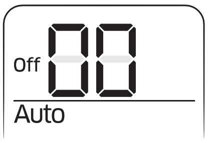
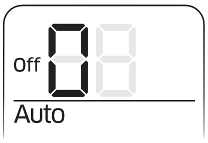
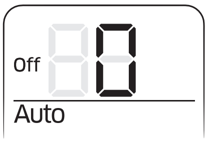
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

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

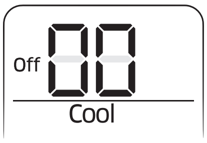
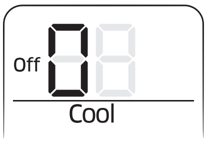
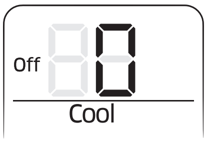
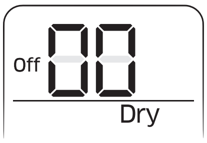
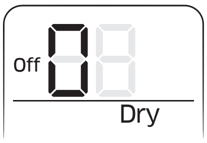
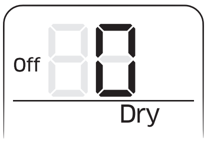
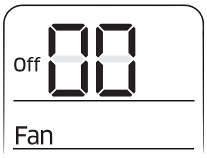
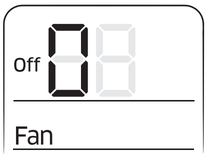
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

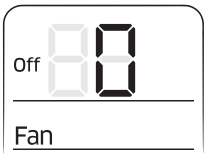
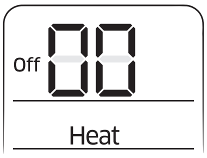
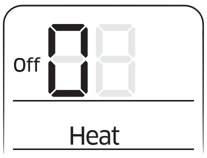
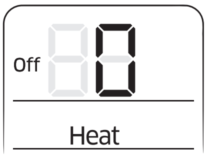
Take the steps presented in the following table:

Steps	Remote control display
1 Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG2
b Set the SEG3 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG3
2 Press the (Mode) button. **Cool** and **On** appear on the remote control display.	
3 Set the SEG4 and SEG5 values: a Set the SEG4 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG4
b Set the SEG5 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG5
4 Press the (Mode) button. **Dry** and **On** appear on the remote control display.	
5 Set the SEG6 and SEG8 values: a Set the SEG6 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG6
b Set the SEG8 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG8

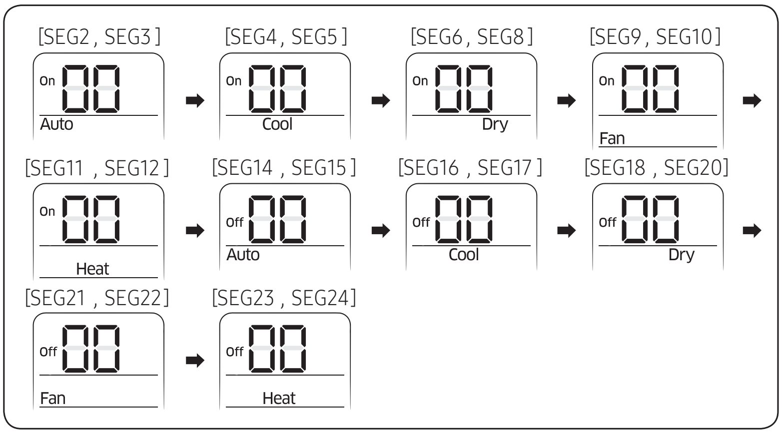
Steps	Remote control display
6 Press the Mode (Mode) button. **Fan** and **On** appear on the remote control display.	
7 Set the SEG9 and SEG10 values:	
a Set the SEG9 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG9
b Set the SEG10 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG10
When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
8 Press the Mode (Mode) button. **Heat** and **On** appear on the remote control display.	
9 Set the SEG11 and SEG12 values:	
a Set the SEG11 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG11
b Set the SEG12 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG12
When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
10 Press the Mode (Mode) button. **Auto** and **Off** appear on the remote control display.	
11 Set the SEG14 and SEG15 values:	
a Set the SEG14 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG14
b Set the SEG15 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display.	

Installation

Steps	Remote control display
When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → … E → F	SEG15
12 Press the Mode (Mode) button. **Cool** and **Off** appear on the remote control display.	
13 Set the SEG16 and SEG17 values: a Set the SEG16 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG17 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → … E → F	 SEG16  SEG17
14 Press the Mode (Mode) button. **Dry** and **Off** appear on the remote control display.	
15 Set the SEG18 and SEG20 values: a Set the SEG18 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG20 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → … E → F	 SEG18  SEG20
16 Press the Mode (Mode) button. **Fan** and **Off** appear on the remote control display.	
17 Set the SEG21 and SEG22 values: a Set the SEG21 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG21

Steps	Remote control display
b Set the SEG22 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG22
18 Press the (Mode) button. **Heat** and **Off** appear on the remote control display.	
19 Set the SEG23 and SEG24 values: a Set the SEG23 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG24 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the (Mode) button repeatedly



4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the (Power) button again.

5 Check whether the air conditioner operates in accordance with the option values you have set:

a Reset the indoor or outdoor unit.

- Indoor unit : Press the SET (Set) and (Low Fan) buttons on the remote control simultaneously for 4 seconds.
- Outdoor unit : Press the K3 button.

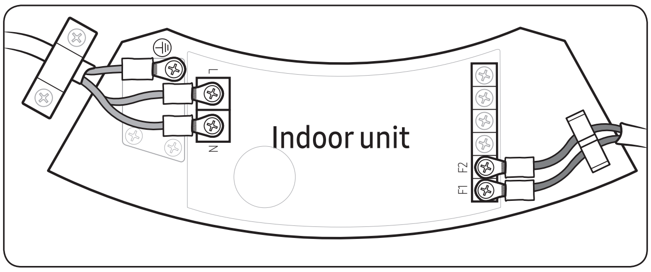
b Remove the batteries from the remote control, insert them again, and then press the (Power) button on the remote control.

Setting the indoor unit addresses

Option No. for an indoor unit address:
0AXXXX-1XXXXX-2XXXXX-3XXXXX

Before installing an indoor unit, be sure to set an address for the indoor unit by taking the following steps:

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2 Set an address for each indoor unit using the remote control, according to your air conditioning system plan, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.

- The indoor unit addresses (main and RMC addresses) are set to 0A0000-100000-200000-300000 by default.
- If indoor units and outdoor units match 1:1, you don't need to set the main address because it is automatically set by the outdoor unit.
- If you are using on or off controller, set RMC address.

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Function	Page		Mode		Setting main address		Reserved	Indoor unit number		Indoor unit number	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details
	0		A		0	No main address		0 to 1	Tens digit	0 to 9	Units digit
					1	Main address setting mode					
Option	**SEG7**		**SEG8**		**SEG9**		**SEG10**	**SEG11**		**SEG12**	
Function	Page		Reserved		Setting RMC address		Reserved	Group channel (x16)		Group address	
Indication and details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0 to 2	RMC2	0 to F
					1	RMC address setting mode					

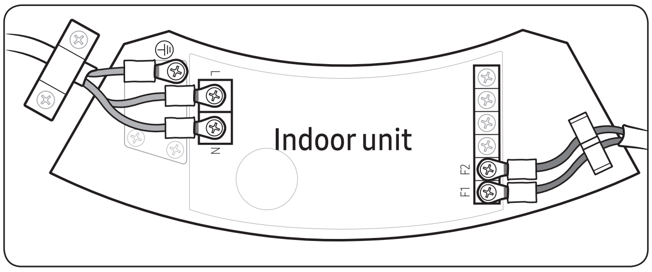
⚠ CAUTION

- The main address must be set to a value in the range 0 to 14. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing main address even if SEG6 is set to a new value.
- If SEG9 is set 0, the indoor unit maintains the existing RMC address even if SEG11 and SET12 are set to new values.

Setting the installation options in a batch

Option No. for an indoor unit address:
02XXXX-1XXXXX-2XXXXX-3XXXXX

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.



2 Set the installation options of indoor units, by referring to the following table and by following the steps in **Common steps for setting the addresses and options**.

- The installation options of indoor units are set to 020000-100000-200000-300000 by default.
- The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6	
Function	Page		Mode		Reserved	Use of external temperature sensor		Use of central control		Compensation of the fan RPM	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details
	0		2			0	Disuse	0	Disuse	0	Disuse (recessed installation)
										1	High-ceiling mode (recessed installation)
						1	Use	1	Use	4	Disuse (exposed installation)
										5	High-ceiling mode (exposed installation)

Option	SEG7		SEG8		SEG9	SEG10	SEG11	SEG12
Function	Page		Use of drain pump		Reserved	Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details				
	1		0	Disuse				
			1	Use				
			2	Use with 3 minute delay				

Option	SEG13		SEG14			SEG15		SEG16		SEG17		SEG18	
Function	Page		Use of external control			Setting the output of external control		S-Plasma ion		Buzzer control		Maximum filter usage time	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	Slave (disable Level control*)	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 hours
			1	On/Off control									
			2	Off control									
			3	Window on/off control									
			4	Disuse	Master (enable Level control*)	1	Operation on	1	Use	1	Disuse of buzzer	6	2000 hours
			5	On/Off control									
			6	Off control									
			7	Window on/off control									

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24	
Function	Page		Individual control with remote control		Heating setting compensation		Reserved	Reserved	Cycle time of Swing	
Indication and details	Indication	Details	Indication	Details	Indication	Details			Indication	Details
	3		0 or 1	Indoor 1	0	Default			0	34 seconds (default)
			2	Indoor 2	1	2°C			1	30 seconds
			3	Indoor 3	2	5°C			2	38 seconds
			4	Indoor 4						

- Even if you set the Use of drain pump (SEG8) option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1).
- Default value of Heating setting compensation (SEG21) is 5°C for 360 cassette model.

* Level control: The centralized controller can limit the functions and inputs of connected products with this function enabled. (Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit)
To enable 'Level control' when applying the DPM with the centralized controller, appoint the master (Set 'Use of external control [SEG14] option to 4 or higher).

Example: When installing DPM (1 Outdoor unit with 4 indoor units)

Condition		**SEG14 Setting**				**Result**
External control	**Level control**	**Indoor 1**	**Indoor 2**	**Indoor 3**	**Indoor 4**	
Default		Not set (0)				Slave (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor 1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor 1,2,3)

Changing the addresses and options individually

When you want to change the value of a specific option, refer to the following table and follow the steps in **Common steps for setting the addresses and options**.

Option	**SEG1**		**SEG2**		**SEG3**		**SEG4**		**SEG5**		**SEG6**	
Function	Page		Mode		Option mode to change		Tens position of the option number		Units position of the option number		New value	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

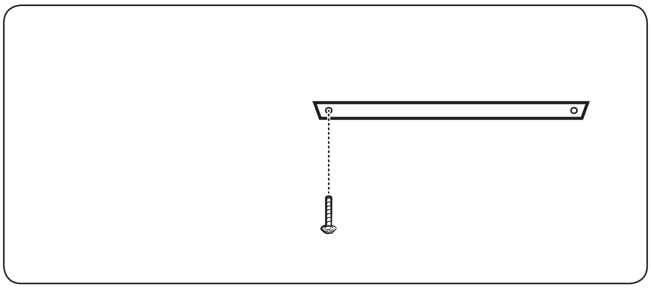
Option	**SEG1**	**SEG2**	**SEG3**	**SEG4**	**SEG5**	**SEG6**
Function	Page	Mode	Option mode to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

Optional: For the installation of the circular panel

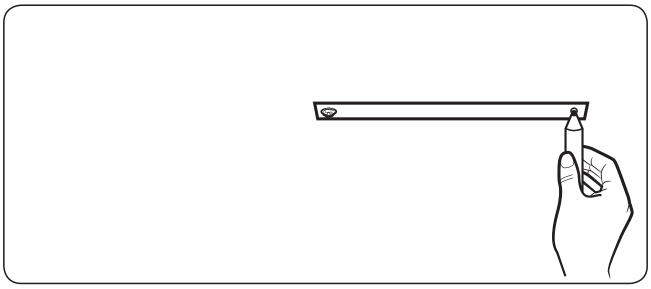
Making a circular opening on the ceiling

Use a paper compass printed on the indoor unit package. (attached inside to the upper part)

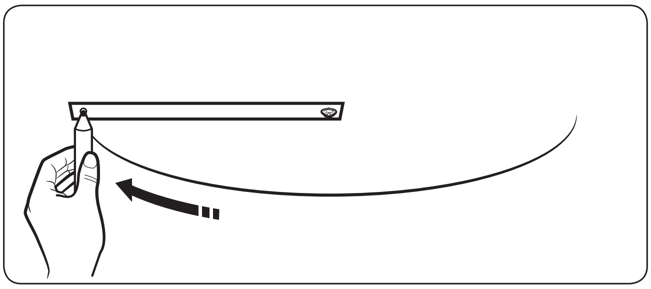
1 Use a bolt or a pin to fix pivot point of the paper compass on center of the ceiling. (in the middle of location for installation)



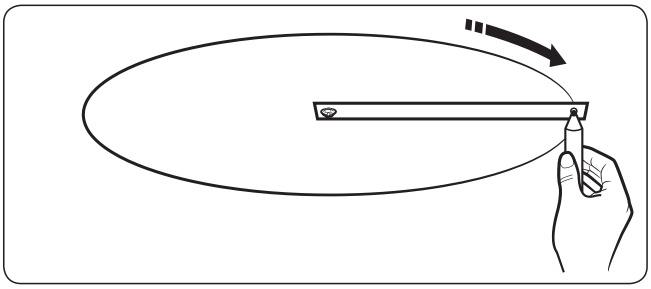
2 Put a pencil at the opposite side of the pivot point fixed in place.



3 Rotate the paper compass on its pivot point to draw a line on the ceiling.



4 Rotate the paper compass diametrically to draw a circle on the ceiling.



For the painting of the panel

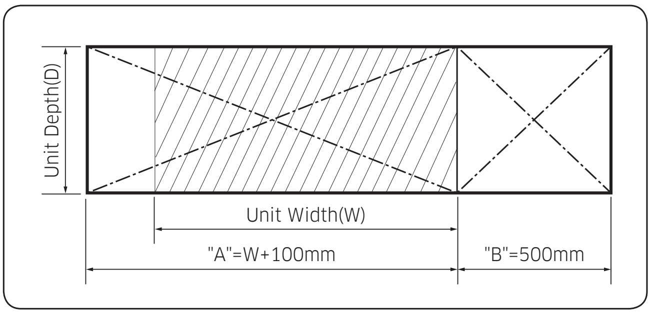
- Make sure to only apply paints and varnishes for resins (ABS, HIPS) or paint thinners.
- If you apply lacquers for general use on the panel, it may lead to discoloration or erosion on the surface of the panel.

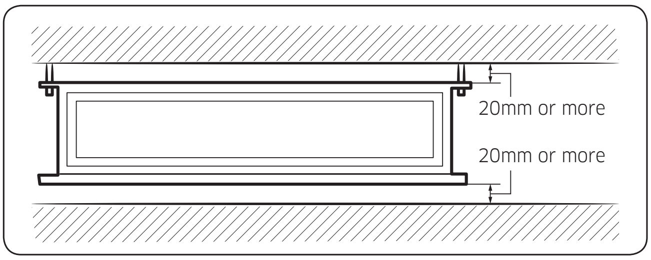
4. Duct Type

Spacing requirements

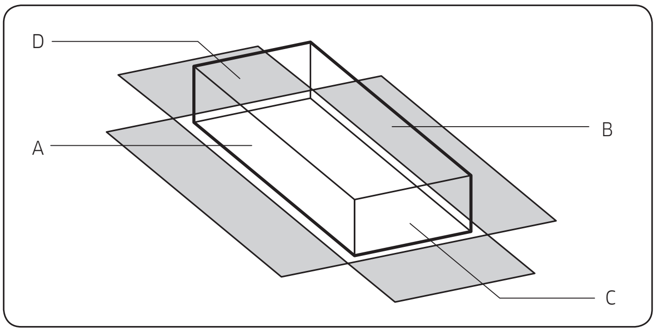
Construction Standard for Inspection Hole

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





- You must have 20 mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user. When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install the unit at an height of between 2.2~2.5 m from the ground, if the unit has a duct with a well defined lenght (300 mm or more), to avoid fan motor blower contact.
- If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply extra 10 mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.



Thickness: more than 10mm

Indoor Unit	AC026MNLDKH AC035MNLDKH	AC052MNLDKH AC071MNLDKH	AC035MNMDKH AC052MNMDKH AC060MNMDKH AC071MNMDKH
	700 X 600 X 199	1100 X 450 X 200	850 X 700 X 250
A	700 X 199	1100 X 200	850 X 250
B	700 X 199	1100 X 200	850 X 250
C	600 X 199	450 X 200	700 X 250
D	600 X 199	450 X 200	700 X 250
Front/ Back	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.		

(Unit: mm)

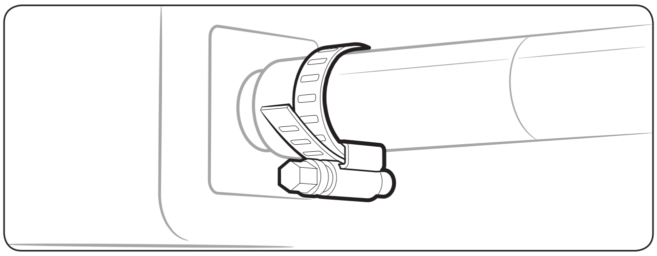
Indoor Unit	AC090MNMDKH AC100MNMDKH	AC120MNMDKH AC140MNMDKH
	1200 X 700 X 250	1300 X 700 X 300
A	1200 X 250	1300 X 300
B	1200 X 250	1300 X 300
C	700 X 250	700 X 300
D	700 X 250	700 X 300
Front/ Back	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.	

(Unit: mm)

NOTE

- 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.

1. Push the supplied drain hose as far as possible over the drain socket.
2. Tighten the metal clamp as shown in the picture.

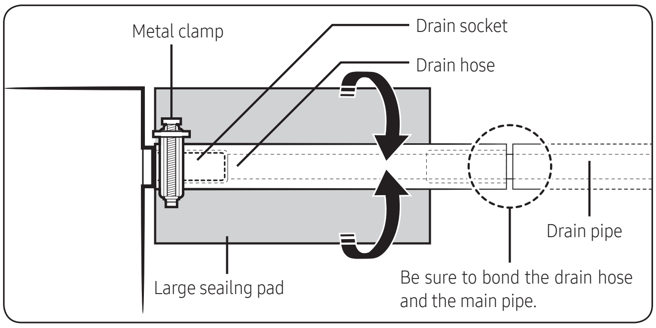


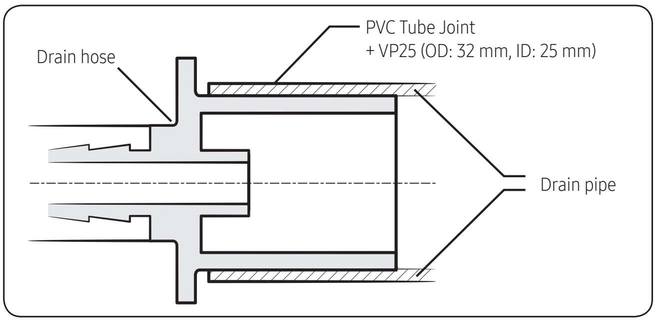
3. Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

Installation

4 Insulate the complete drain piping inside the building (field supply). If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.



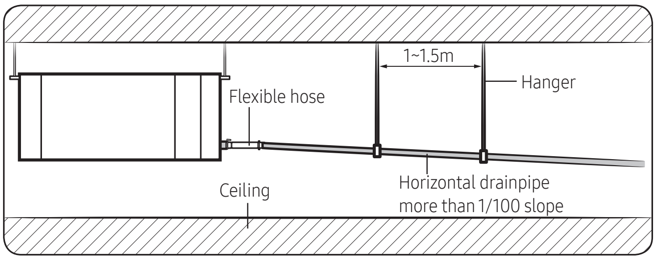


Without the drain pump

1 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.

2 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.

3 Do not install the drainpipe to upward position. It may cause water flow back to the unit.



With the drain pump

1 The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.

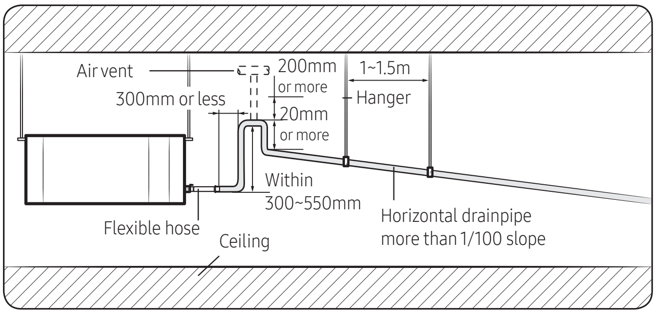
2 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.

3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.

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.



Connecting the power and communication cables

CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections. When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

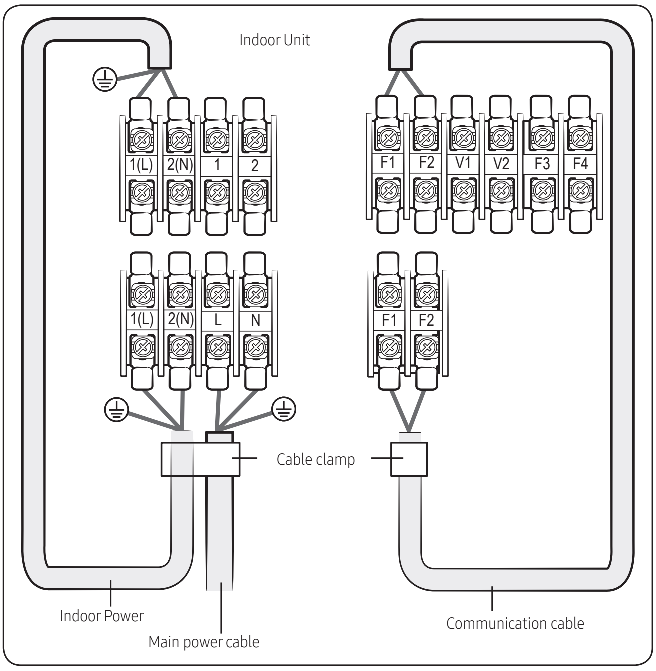
1 Remove the screw on the electrical component box and remove the cover plate.

2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.

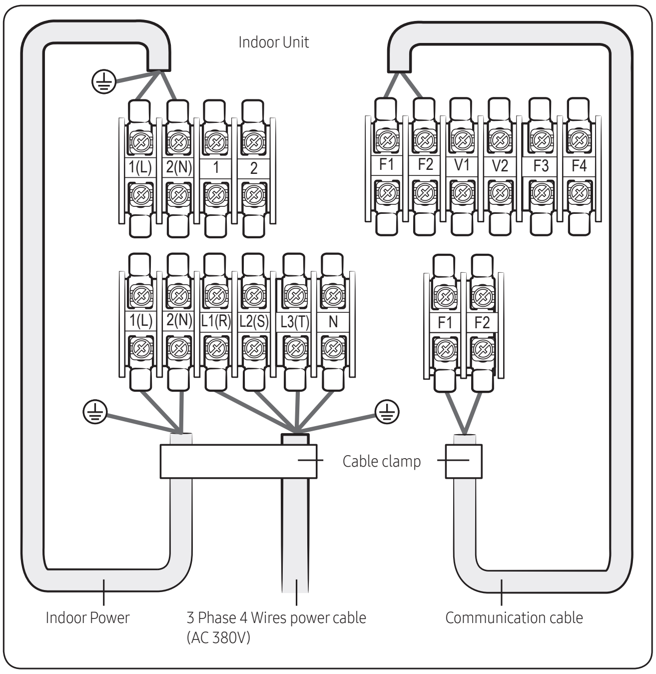
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.

4 Reassemble the electrical component box cover, carefully tightening the screw.

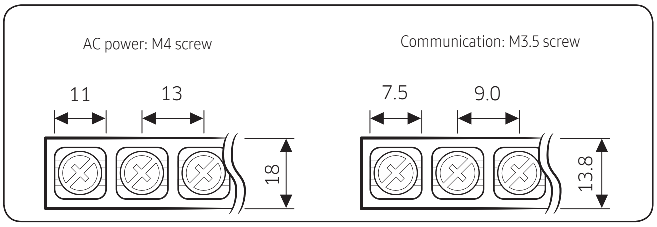
1 phase (⚹026/035/052/060/071/090/100/120/140⚹)



3 phase (⚹090/100/120/140⚹)



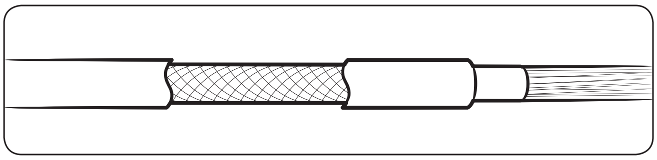
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm^2 ↑, 3 wires
Communication cable		
0.75 to 1.5 mm^2, 2 wires		



Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

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

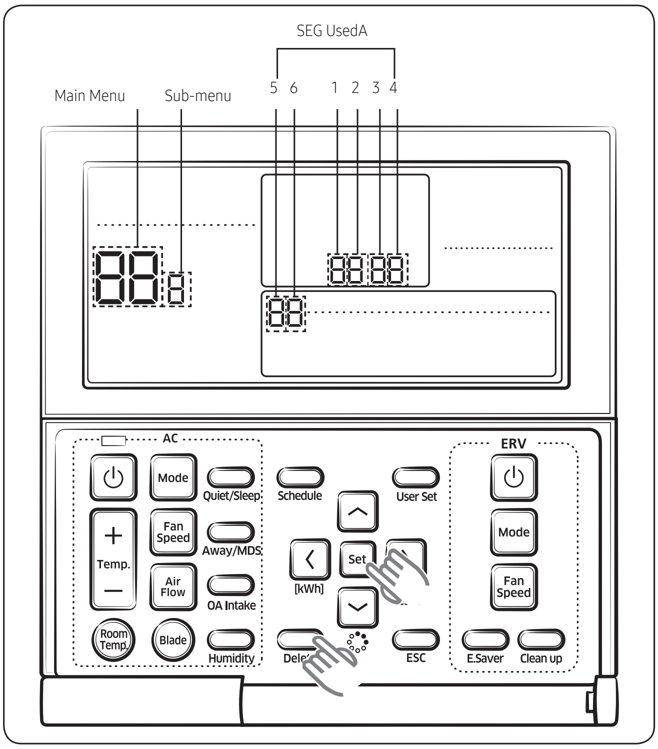
Setting additional functions of wired remote control

Automatic Air-Volume

When DPM is installed, Automatic Air-Volume function cannot be performed simultaneously for all indoor units. Automatic Air-Volume function must be performed for each indoor unit with the wired remote control attached.

With its BLDC motor, you can use smart adjust the indoor unit fan speed depending on the installation condition.

If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, Using the Automatic Air-Volume function,the volume of exhaust air has been adjusted to the rated volume flow rate automatically.



Performing the Automatic Air-Volume function.

- Check the air conditioning unit stop.

Press the Power button to stop the air conditioner

- Go to Service setting mode with remote controller.

1 Press the Set and Delete buttons at the same time for more than 3 seconds and then a Main menu will be displayed.

2 Press the ∧ / ∨ button to select 7 and then press 〉 button to enter a Sub-menu setting screen.

3 Press the ∧ / ∨ button to select 2 and then press 〉 button to enter a automatic air-volume setting screen.

4 Press the ∧ / ∨ button to select 1 to enable automatic air-volume operation.

5 Select mode No. 7.2 , and set to “1”.

6 Press the ∧ / ∨ button to select 3 and then press 〉 button to enter input voltage.

7 Press the ∧ / ∨ button to select 1~3 to set voltage.
(1 : 220V, 2 : 230V, 3 : 240V)

8 Press the 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.

9 Press ESC button to escape setting mode.
(During the automatic air-volume adjustment,[Main Menu] will be displayed ‾ _ → _ ‾ → , ' → ' , repetitively)

10 After 1 to 8 minutes, the air conditioning unit stops operating automatically when Automatic Air-Volume adjustment has been carried out (fan operation icon will be off.)

11 When the air conditioning unit has stopped, check the Mode No. 7.1 is "1” for completion of Automatic Air-Volume.

If the Mode No. 7.1 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
7	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
	3	Automatic Air-Volume Voltage Setting	1	2	1- 220V 2- 230V (Default) 3- 240V

NOTE

- If the coil is not dry, run the unit for 2 hours with fan only to dry the coil.
- The air filter is properly attached into the air passage on the air suction side of the air conditioning unit.
- Adjust the dampers so that each air inlet and outlet exhusts the designed airflow rate.
- If using booster fans(an outdoor air processing unit or ERV via duct), do not use Automatic Air-Volume function.
- If the duct configurations have been changed, automatic air-volume function perform again.
- The product can be used within the range of rated voltage 220 V/230 V/240 V ± 5 V. If the product needs to be installed in the condition that is out of the rated voltage stated above, additional setting with installation option is required.

External Static Pressure(ESP) 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	AC026MNLDKH/EU	AC035MNLDKH/EU
Static Pressure	Option Code for Indoor Unit	
0≤ SP ≤2.5	01C07C-1C1914-271A21-370000	01C07C-1C3936-272328-370000
2.5< SP ≤4	01C07C-1C1969-271A21-370000	01C07C-1C39AD-272328-370000

Model	AC035MNMDKH/EU
Static Pressure	Option Code for Indoor Unit
0≤ SP ≤2.5	01B07C-1C5080-272328-372000
2.5< SP <5	01B07C-1C5407-272328-372000
5≤ SP <7.5	01B07C-1C548C-272328-372000
7.5≤ SP <10	01B07C-1C55D3-272328-372000
10≤ SP <12.5	01B07C-1C5926-272328-372000
12.5≤ SP ≤15	01B07C-1C5998-272328-372000

Model	AC052MNLDKH/EU	AC071MNLDKH/EU
Static Pressure	Option Code for Indoor Unit	
0≤ SP ≤3	01C07C-1C1924-27343C-370000	01C07C-1C59D0-274750-370005
3< SP ≤4	01C07C-1C1968-27323C-370000	01C07C-1C5D21-274750-370005

Model	AC052MNMDKH/EU	AC060MNMDKH/EU	AC071MNMDKH/EU
Static Pressure	Option Code for Indoor Unit		
0≤ SP ≤3	01B07C-1C50F1-27343C-374000	01B07C-1C5436-273C46-376000	01B07C-1C5436-274750-376000
3< SP <6	01B07C-1C5488-27343C-374000	01B07C-1C54AB-273C46-376000	01B07C-1C54AB-274750-376000
6≤ SP <9	01B07C-1C54ED-27343C-374000	01B07C-1C581E-273C46-376000	01B07C-1C581E-274750-376000
9≤ SP <12	01B07C-1C5941-27343C-374000	01B07C-1C5972-273C46-376000	01B07C-1C5972-274750-376000
12< SP ≤15	01B07C-1C59B3-27343C-374000	01B07C-1C59C8-273C46-376000	01B07C-1C59C8-274750-376000

Model	AC090MNMDKH/EU	AC100MNMDKH/EU
Static Pressure	Option Code for Indoor Unit	
0≤P≤4	01B07C-1C549F-275A64-375020	01B07C-1C549F-276470-375020
4<P<8	01B07C-1C5917-275A64-375020	01B07C-1C5917-276470-375020
8≤P<12	01B07C-1C599C-275A64-375020	01B07C-1C599C-276470-375020
12≤P≤15	01B07C-1C5AE1-275A64-375020	01B07C-1C5AE1-276470-375020

Model	AC120MNMDKH/EU	AC140MNMDKH/EU
Static Pressure	Option Code for Indoor Unit	
0≤P≤5.2	01B07C-1C5424-277882-374048	01B07C-1C5424-278CA0-374045
5.2<P<8	01B07C-1C5489-277882-374048	01B07C-1C5489-278CA0-374045
8≤P<12	01B07C-1C54FE-277882-374048	01B07C-1C54FE-278CA0-374045
12≤P≤15	01B07C-1C5940-277882-374048	01B07C-1C5940-278CA0-374045

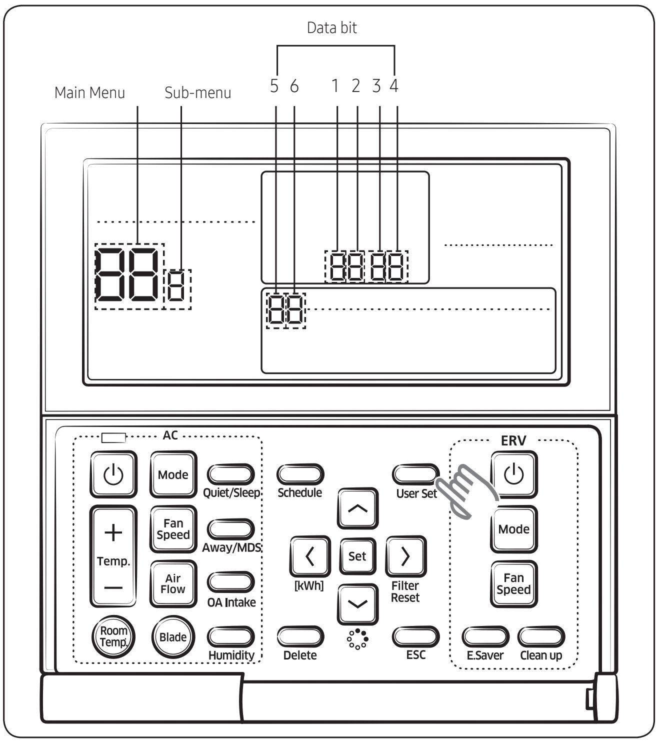
NOTE

- represents E. S. P(External Static Pressure) range of factory setting. You don't have to adjust the fan speed separately if the external static pressure of the installation place is in . When it is out of , input the appropriate option code.
- If you input the inappropriate option code, error may occur or the air conditioner is out of order. The option code must be inputted correctly by the installation specialist or service agent.

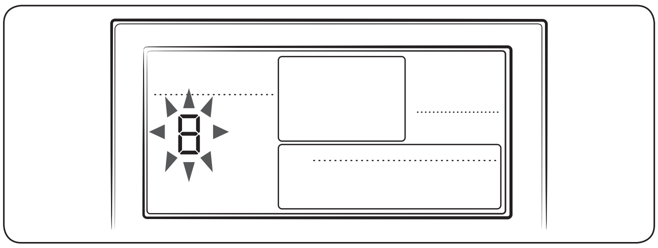
EASY Tuning

If the more cooling and heating airflow rate which set up when installing is wanted, or if the more Silent operation which sets up when installing is wanted, air conditioner is tuned for comfort.

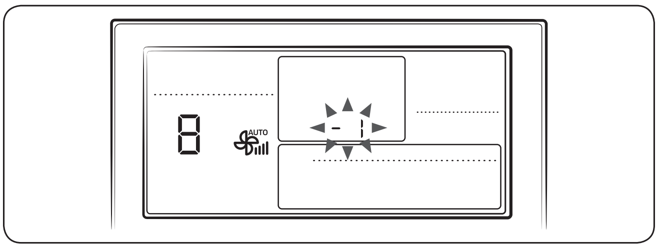
Indoor unit airflow rate for high, mid, low mode increases or decreases for +2 ~ -2 Steps with wired remotecontrol.



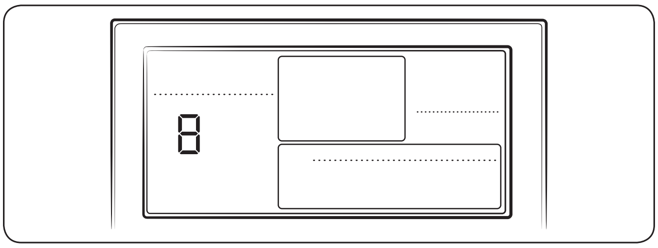
1 Press the User Set button.
(Main Menu) will be displayed, and you can press the [∧]/[∨] buttons to select No. 8, which will set the Easy Tuning.



2 Press the [>] button to select airflow step.
Press the [∧]/[∨] buttons to select airflow step(-2,-1,0,1,2) tuning
(During the Easy Tuning setting, AC Fan Speed icon will be displayed)



3 Press the Set button to complete the Easy Tuning.
(When the Easy Tuning setting complete, AC Fan Speed icon will be off)



4 Press the ESC button to to exit to normal mode.

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

NOTE

- Press the ESC button anytime during setup to exit without setting.
- According to airflow changed from the Easy Tuning, Air conditioning performance reducing is possible.

Setting an indoor unit address and installation option

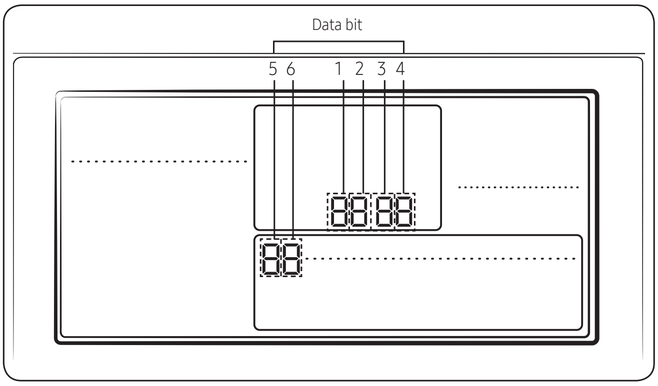
Set the indoor unit address and installation option with remote controller option. Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

Setting an indoor unit address

1 Press the Set and Delete buttons at the same time for more than 3 seconds and then a Main menu will be displayed.

2 Press the ∧ / ∨ button to select 4 and then press 〉 button to enter a Sub-menu setting screen.

3 Press the ∧ / ∨ button to select 1 and then press 〉 button to enter a Indoor Address setting screen.



NOTE

- The Main/RMC Address which is currently setting will flicker.
- Data bit 1 and 2 present Indoor unit main address checking
- Data bit 3 and 4 present Indoor unit main address setting(outdoor unit reset is needed to set).
- Data bit 5 and 6 present Indoor unit RMC address setting/checking.

4 Press the ∧ / ∨ button to set the Indoor unit Main/RMC Address.

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

6 Press the ESC button to exit to normal mode.

NOTE

- Press the ESC button anytime during setup to exit without setting.
- Address will not be applied if you don't press Set button.
- Setting Main/RMC Address of an Indoor unit is available only with a master wired remote controller.

Setting an indoor unit installation option

In order to check and set the indoor unit installation option code use the wired remote controller and follow the directions below.

1 Press the Set and Delete buttons at the same time for more than 3 seconds and then a Main menu will be displayed.

2 Press the ∧ / ∨ button to select 4 and then press 〉 button to enter a Sub-menu setting screen.

3 Press the ∧ / ∨ button to select 3 and then press 〉 button to enter a Indoor unit installation option code setting screen.

NOTE

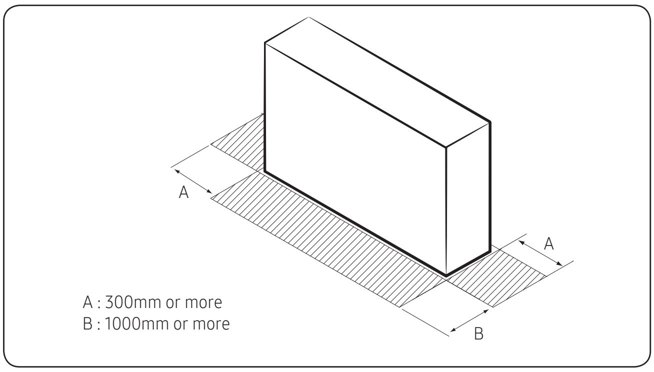
- The first digit represents the page number and the remaining five digits are installation option.
- The total option codes are 24 digits. You can set six digits at a time and it is distinguished by page number (0, 1, 2, 3).

4 Press the ∧ / ∨ button to set the installation option code in order. Press 〉 button to go to the next page.

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

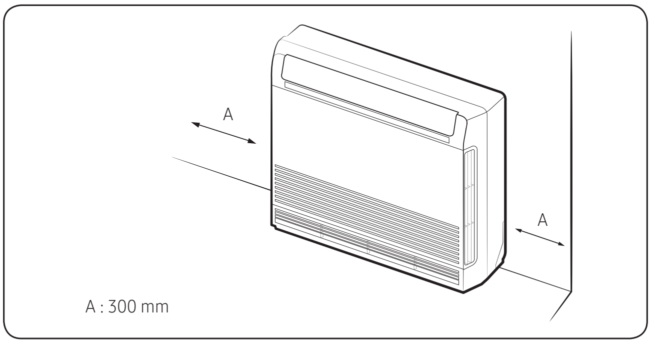
5. Console

Spacing requirements

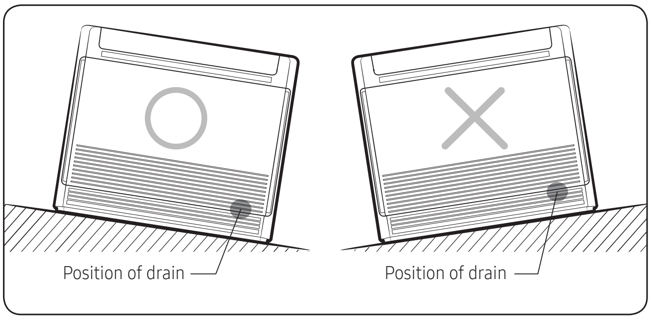


⚠ CAUTION

- Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
- For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.
- When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.

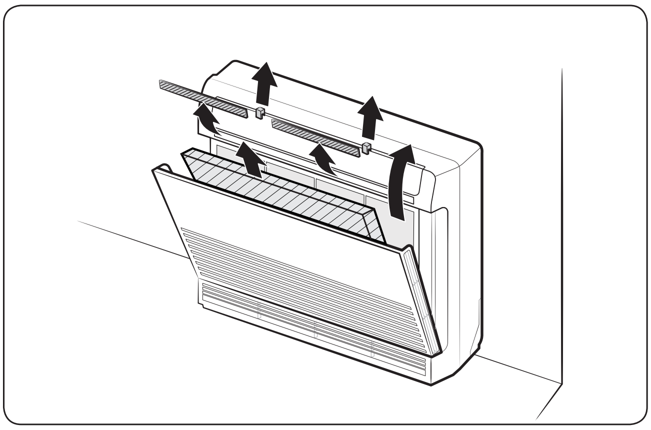


5 When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.



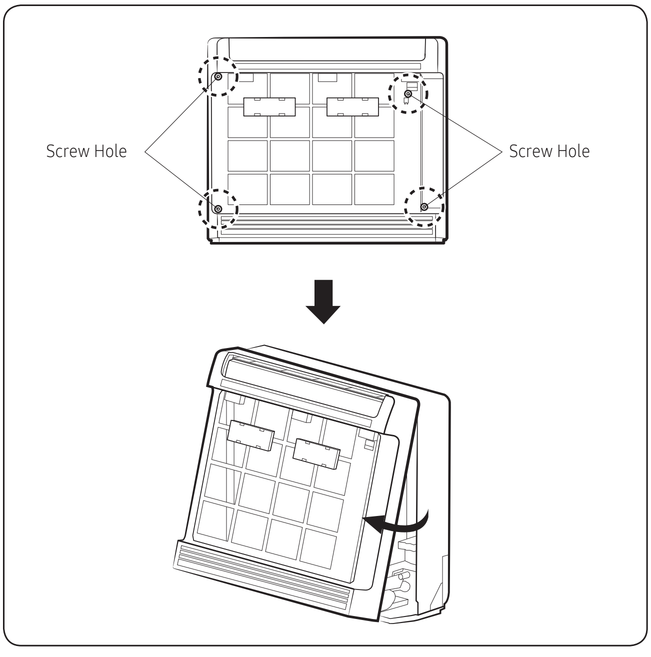
6 Please remove the items when set is installed.

(✱✱026/035✱✱: 6 Items / ✱✱052✱✱: 7 Items)

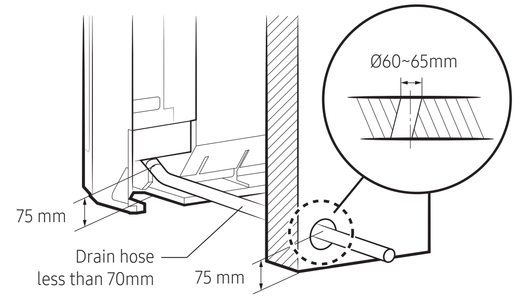


7 The body front should be opened to connect pipes.

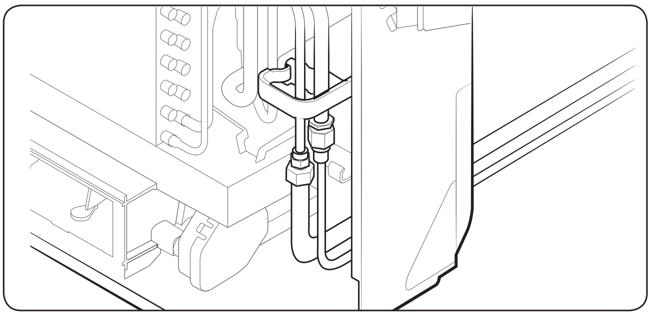
Please release the 4 screws of body front and then pull it out from the bottom of the set.



8 Make a hole on the wall.



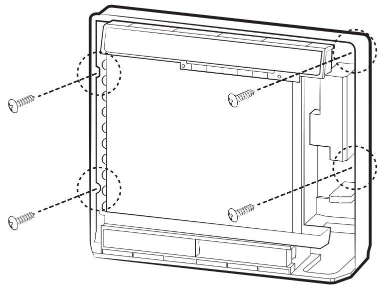
9 The pipes & cable should be gone through the bottom back hole.



10 Hanging the indoor unit on the Bracket Hanger, then fix the Indoor Unit by using 4 Screws.

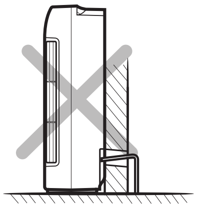
- Case 1. Installing on the floor : Must fix 4 screws on the wall, make the indoor not to fall down(For safety installation) .
- Case 2. Hanging on the wall : Follow the installation guide supplied in the accessory part.

\- Screw positions are specified on the installation guide.

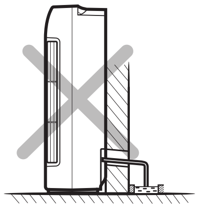


Installing the drain hose and drain pipe

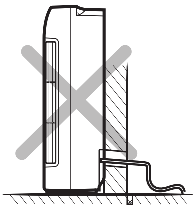
When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65-mm hole drilled in the wall, check the following:



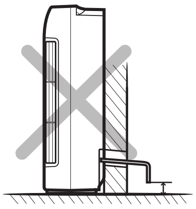
The hose must NOT slant upwards.



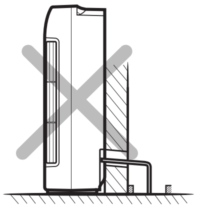
The end of the drain hose must NOT be placed under water.



Do NOT bend the hose in different directions.

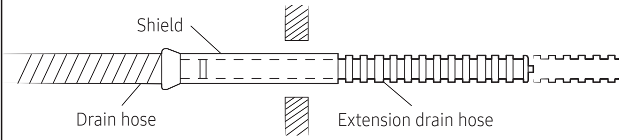


Keep a clearance of at least 5cm between the end of the hose and the ground.



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

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



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

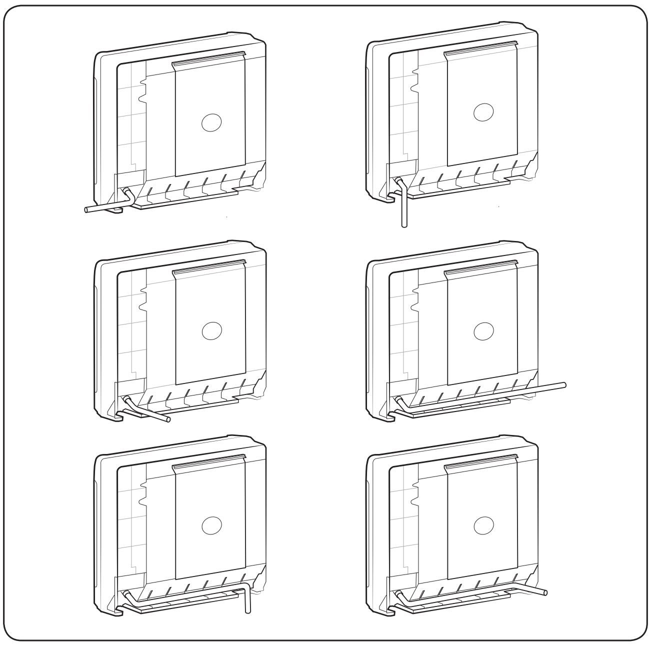
3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.

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

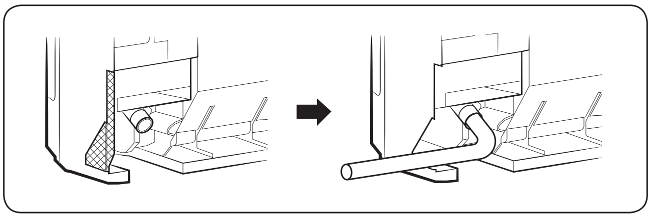
4 Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.

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

6-ways for drain hose and drain pipe connection



Knock out



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.

Connecting the power and communication cables

CAUTION

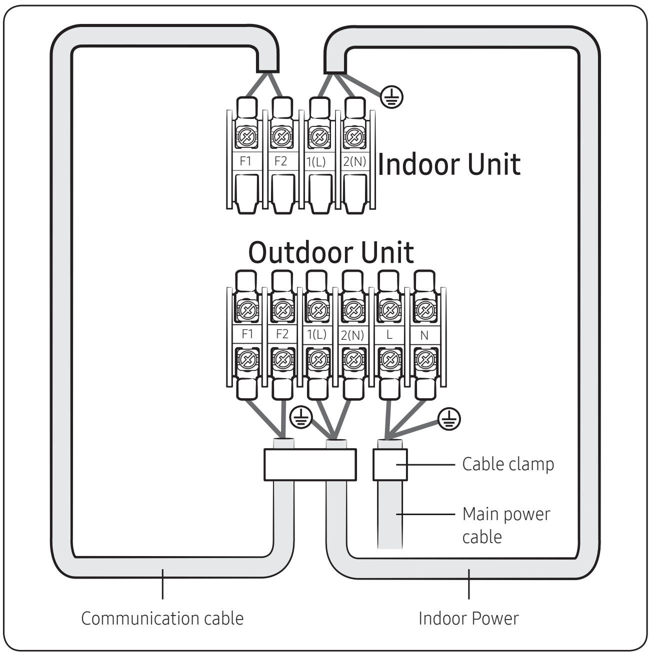
- Always remember to connect the refrigerant pipes before performing the electric connections.
  When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

CAUTION

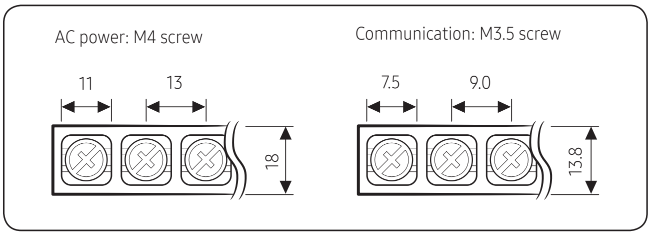
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

1. Remove the screw on the electrical component box and remove the cover plate.
2. Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3. Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
4. Reassemble the electrical component box cover, carefully tightening the screw.



Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		

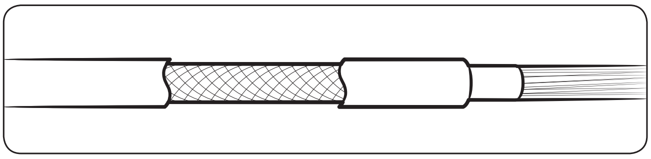


Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

Installation

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Screws on terminal block must not be unscrewed with the torque less than 12 kgf•cm.
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



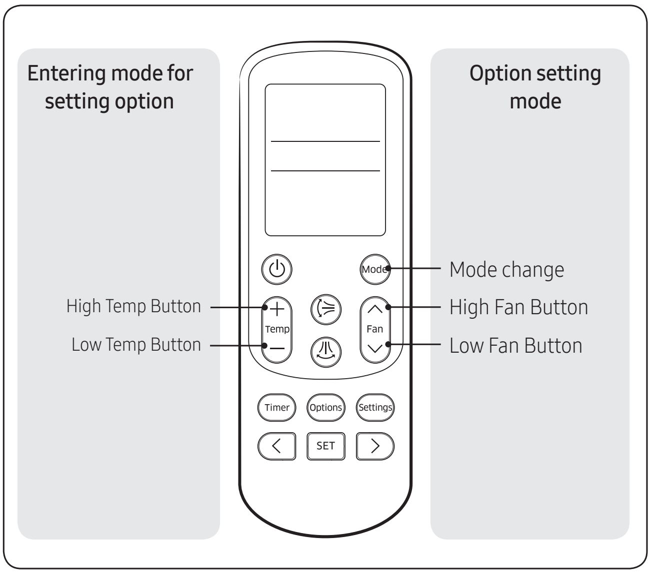
⚠ CAUTION

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

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.
- Please use the proper wireless remote controller which can set 24 digit option code. Following is the instructions of setting option code with wireless remote controller of MR-DH00. (MR-AH01 can be used for operating but cannot be used for setting the installation option because only 12 digit option setting is available.
- Please refer to the wired remote controller installation manual for setting with the wired remote controller.

Common steps for setting the addresses and options

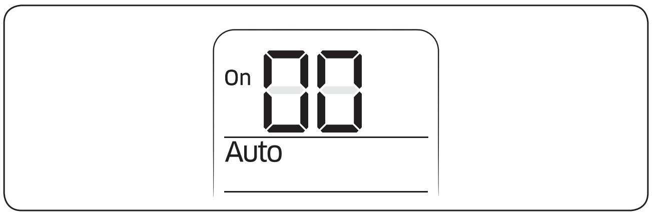


1 Enter the mode for setting the options:

   a Remove the batteries from the remote control, and then insert them again.

   b While holding down the + (High Temp) and − (Low Temp) buttons simultaneously, insert the batteries into the remote control.

   c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

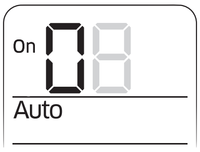
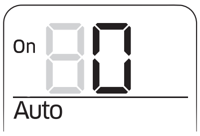
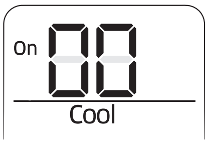
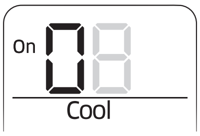
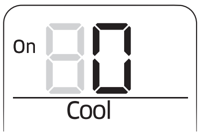
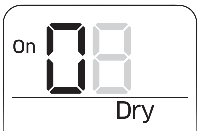
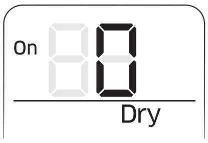
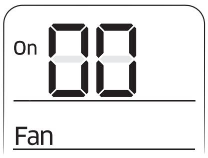
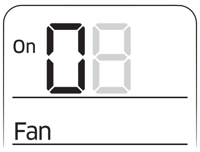
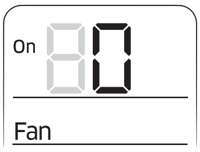
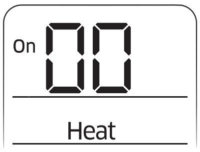
⚠ CAUTION

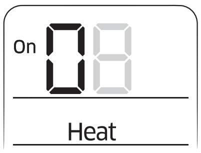
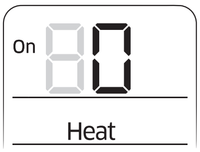
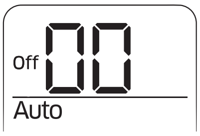
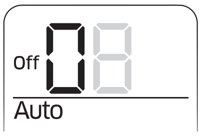
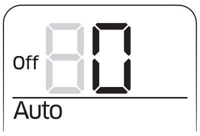
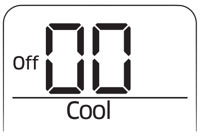
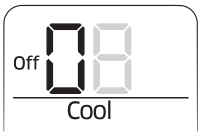
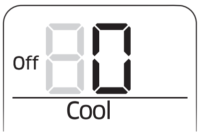
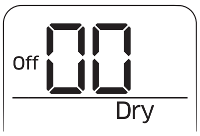
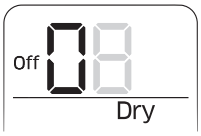
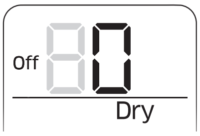
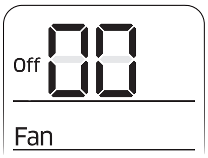
- The total number of available options are 24: **SEG1** to **SEG24**.
- Because **SEG1**, **SEG7**, **SEG13**, and **SEG19** are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: **SEG2** and **SEG3** → **SEG4** and **SEG5** → **SEG6** and **SEG8** → **SEG9** and **SEG10** → **SEG11** and **SEG12** → **SEG14** and **SEG15** → **SEG16** and **SEG17** → **SEG18** and **SEG20** → **SEG21** and **SEG22** → **SEG23** and **SEG24**

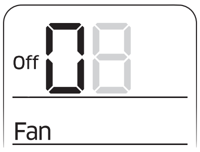
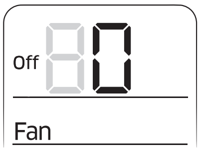
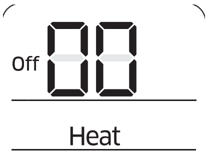
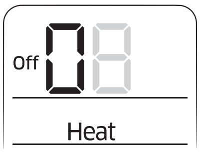
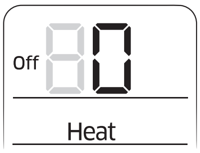
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

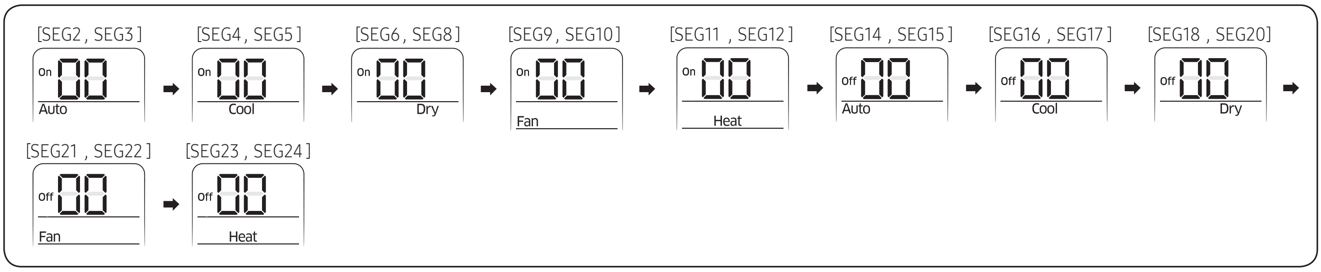
Take the steps presented in the following table:

Option setting	Status
1 Setting SEG2, SEG3 option Press Low Fan button to enter SEG2 value. Press High Fan button to enter SEG3 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG2  SEG3
2 Setting Cool mode Press Mode button to be changed to Cool mode in the ON status.	
3 Setting SEG4, SEG5 option Press Low Fan button to enter SEG4 value. 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 Press Mode button to be changed to DRY mode in the ON status.	
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG6  SEG8
6 Setting Fan mode Press Mode button to be changed to FAN mode in the ON status.	
7 Setting SEG9, SEG10 option Press Low Fan button to enter SEG9 value. 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
8 Setting Heat mode Press Mode button to be changed to HEAT mode in the ON status.	

Option setting	Status
9 Setting SEG11, SEG12 option Press Low Fan button [Fan] to enter SEG11 value. Press High Fan button [Fan] 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 Press Low Fan button [Fan] to enter SEG14 value. Press High Fan button [Fan] 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 changed to Cool mode in the OFF status.	
13 Setting SEG16, SEG17 option Press Low Fan button [Fan] to enter SEG16 value. Press High Fan button [Fan] 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 changed to Dry mode in the OFF status.	
15 Setting SEG18, SEG20 option Press Low Fan button [Fan] to enter SEG18 value. Press High Fan button [Fan] to enter SEG20 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG18  SEG20
16 Setting Fan mode (Mode) Press Mode button to be changed to Fan mode in the OFF status.	

Option setting	Status
17 Setting SEG21, SEG22 option Press Low Fan button Fan to enter SEG21 value. Press High Fan button Fan 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 changed to HEAT mode in the OFF status.	
19 Setting SEG23, SEG24 option Press Low Fan button Fan to enter SEG23 value. Press High Fan button Fan to enter SEG24 value. Each time you press the button, 0 ➡ 1 ➡ ··· E ➡ F will be selected in rotation.	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the Mode button repeatedly.



4 Save the option values into the indoor unit:

Press the ⏻ button with the direction of remote control for set. For correcting option values, input the option values twice.

5 Check whether the air conditioner operates in accordance with the option values you have set:

- a Reset the indoor unit by pressing the Reset button on the indoor or outdoor unit.
- b Remove the batteries from the remote control, insert them again, and then press the ⏻ button on the remote control.

Installation

Setting the indoor unit addresses

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.

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 indoor unit ADDRESS is set as "MAIN : 0, RMC : 0".
- Set Main and RMC Address only the setting is required.
- There is no need to assign the indoor unit Main Address if the outdoor unit is addressing automatically.
  The indoor unit Main address will follow the outdoor unit's automatically.
- Assign 12 digit when setting the indoor unit address.
- No need to assign SEG4, 5, 8, 10 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indiciated, the initial setting will be maintained.

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

Option	SEG1		SEG2		SEG3		SEG4	SEG5	SEG6	
Explanation	PAGE		MODE		Setting Main address		RESERVED	RESERVED	The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details			0~3(ACN*)	Details
	0		A		0	No Main address			0~4 (AJN*)	A single digit
					1	Main address setting mode				

Option	SEG7		SEG8	SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE		RESERVED	Setting RMC address		RESERVED	Group channel(*16)		Group address	
Indication and Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
	1			0	No RMC address		**RMC1**	0~2	**RMC2**	0~F
				1	RMC address setting mode					

*SEG6: AJN** models should check maximum installation indoor unit number of outdoor unit.
(Indoor1: 0, Indoor2: 1, ~)

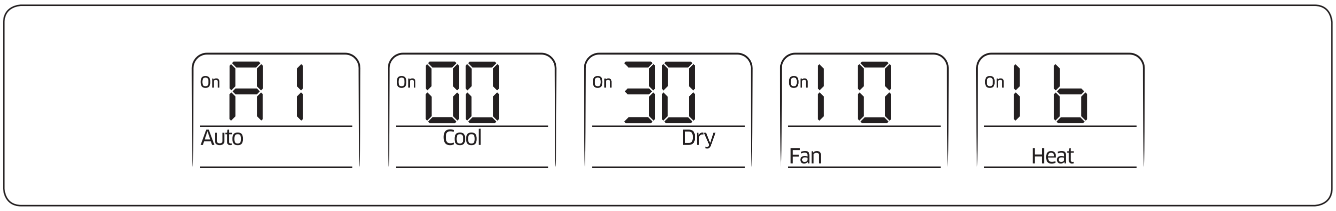
⚠ CAUTION

- 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 SEG6.
- 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.

Example) If you want to set as "MAIN: 3, CHANNEL: 1, RMC: B",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	A	1	-	-	3
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	1	-	1	B

assign option codes except SEG 1, 7 which are page options.



Installation

Setting the installation options in a batch

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.

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 “02000-100000-200000-300000”.
- Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- No need to assign SEG3, 6, 9, 10, 11, 16, 21, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indiciated, the initial setting will be maintained.

4 Set the indoor unit option by wireless remote controller.

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

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6
Explanation	PAGE		MODE		RESERVED	Use of external temperature sensor		Indoor unit number		RPM setting compensation
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	0. Not used 1. High ceiling mode 2. High ceiling kit 3. Low noise operation mode
	0		A			0	Disuse	0	Disuse	
						1	Use	1	Use	

Option	SEG7		SEG8		SEG9	SEG10	SEG11	SEG12	
Explanation	PAGE		Use of drain pump		RESERVED	RESERVED	RESERVED	Group address	
Indication and details	Indication	Details	Indication	Details				Indication	Details
	1		0	Disuse				0	slave
			1	Use				1	master
			2	Use + 3minute delay					

Option	SEG13		SEG14			SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control			Setting RMC address		Setting RMC address		Group channel (x16)		Group address	
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	Slave (disable Level control*)	0	Thermo on	0	Disuse	0	Mixed operation control 1/ Use buzzer	2	1000 Hour
			1	On/Off control									
			2	Off control		1	Operation on	1	Use	1	Mixed operation control 1/Disuse of buzzer	6	2000 Hour
			3	Window on/off control									
			4	Disuse	Master (enable Level control*)					2	Mixed operation control 2/Use buzzer		
			5	On/Off control									
			6	Off control						3	Mixed operation control 2/ Disuse of buzzer		
			7	Window on/off control									

Option	SEG19		SEG20		SEG21		SEG22	SEG23		SEG24
Explanation	PAGE		Individual control of a remote controller		Setting RMC address		RESERVED	Motion detect sensor		Group address
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	RESERVED
	3		0 or1	Indoor1	0	Disuse		0. No Use (Factory Setting) 1. Standard Mode/ Auto Set OFF30 Min. 2. Standard Mode/ Auto Set OFF60 Min. 3. Standard Mode/ Auto Set OFF 120 Min. 4. Standard Mode/ Auto Set OFF 180 Min. 5. Premium Mode/ Auto Set OFF30 Min.6.Premium Mode/ Auto Set OFF60 Min. 7. Premium Mode/ Auto Set OFF 120 Min. 8. Premium Mode/ Auto Set OFF 180 Min.		
			2	Indoor 2						
			3	Indoor 3						
			4	Indoor 4	1	2˚C				
					2	5˚C				

Installation

Setting an indoor unit address and installation option

If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as "Indoor 1".

Example) If you want to set as "Exterior temperature sensor : USE, External control : USE, Number of hours using filer : 2000hr",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	1	0	-
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	0	-	-	-	0
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	1	0	-	0	6
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	0	-	-	-	-

assign option codes except SEG 1, 7 which are page options.

Changing the addresses and options individually

Example) If you want to set as "MAIN : 3, CHANNEL : 1, RMC : B",

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		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

NOTE

- 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'.

Example) When setting the 'buzzer control' into disuse status.

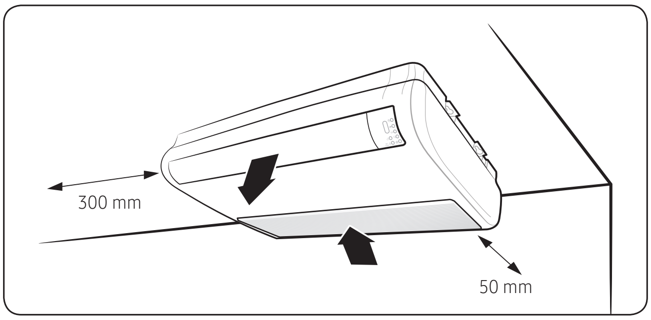
Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

6. Ceiling / Big Ceiling

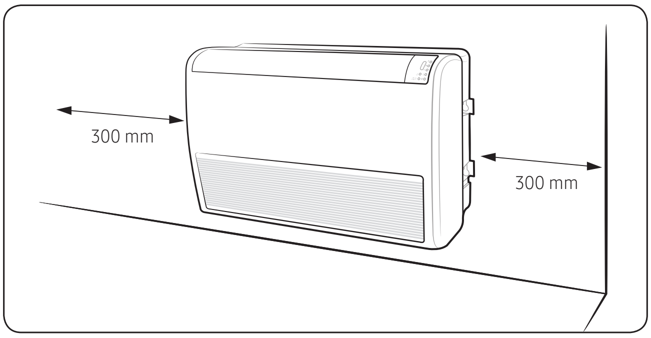
Spacing requirements

AC052/071MNCDKH

Ceiling installation

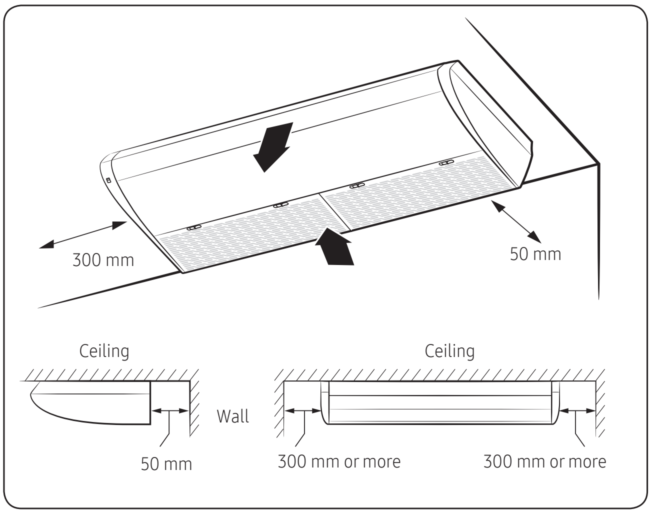


Floor installation



AC100/120/140MNCDKH

Ceiling installation



Step 3 Installing the indoor unit

Floor installation (AC052/071MNCDKH)

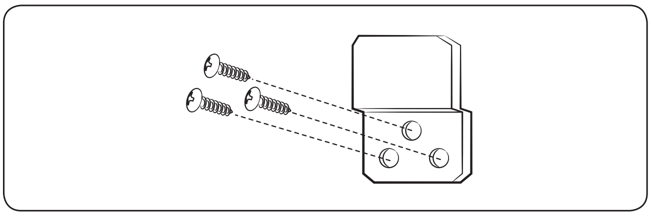
1 Select pipe directions.

When the directions are selected, drill 3-1/8'' (100mm,for pipe and cables) and 1-3/4'' (40mm, for drain hose) diameter holes on the wall so that it slants slightly downwards toward the outdoor for smooth water flow.

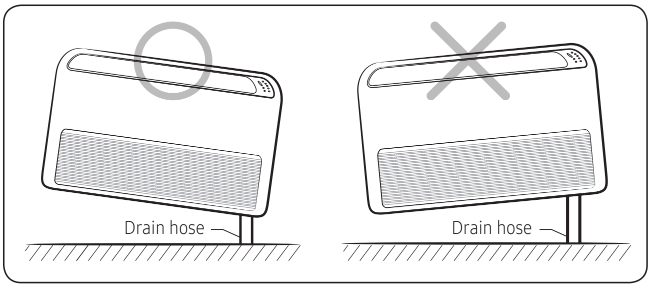
NOTE

- Use the pattern sheet to select pipe directions.

2 Install the hanging plate according to the distance and mount it.



3 Install the unit and be sure to arrange the drain hose so that it is leveled lower than the drain hose connecting port of the indoor unit.



Ceiling installation (AC100/120/140MNCDKH)

1 Select pipe directions.

When the directions are selected, drill 3-1/8''-(100mm, for pipe and cables) and 1-3/4''-(40mm, for drain hose) diameter holes on the wall so that it slants slightly downwards toward the outdoor for smooth water flow.

NOTE

- Use the template to select pipe directions.

2 Drill holes for anchor bolts according to the distance and mount them.

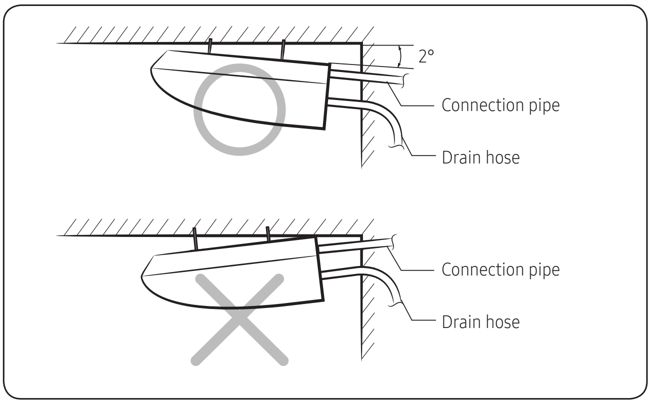
NOTE

- Use the template.

3 Install the unit onto the ceiling. Be sure to arrange the drain hose so that it is leveled lower than the drain hose connecting port of the indoor unit.

NOTE

- For proper drainage of condensate, give a 2° (The gap between the lower end of the indoor unit and the ceiling should be 23 mm or more.) slant to the side of the unit which will be connected with the drain hose as shown in the figure.



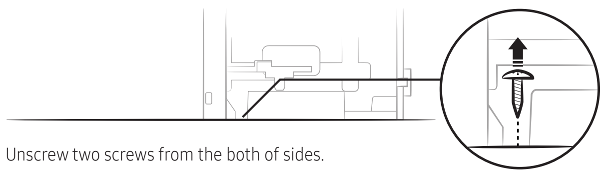
CAUTION

- 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.
- Install the drain hose from the rear of the unit.

NOTE

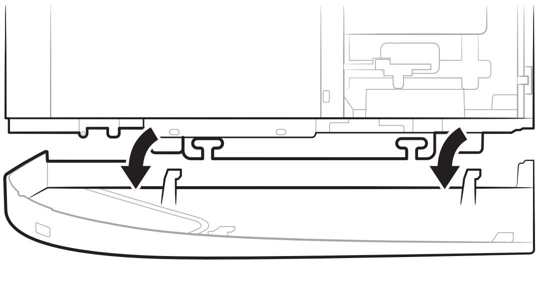
- AC052/071MNCDKH:The gap between the lower end of the indoor unit and the ceiling should be 1˚ or 16 mm.
- AC100/120/140MNCDKH:The gap between the lower end of the indoor unit and the ceiling should be 1˚ or 28 mm.

4 When Hanging the set, firstly unscrew the screws from the both of sides, and then disassemble the Case-sides, or else the case-side will be damaged by disassembling it directly.



Unscrew two screws from the both of sides.

5 Reassemble the Case-sides, tightening the screws after hanging the set.



Remove the Case-sides from the both of sides.

Installing the drain hose and drain pipe

Care must be taken when installing the drain hose for the indoor unit to ensure that any condensation water is correctly drained outside.

NOTE

- Installing the drain hose should be the shorter, the better.
- In order to discharge condensate water, a downward gradient should be maintained.
- Fix the drain hose with Cable-Tie, so that it will not separate from the machine.

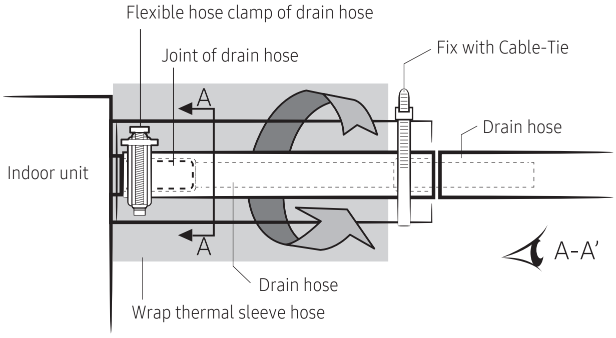
1 Insert the drain hose to bottom of the outfall of water basin.

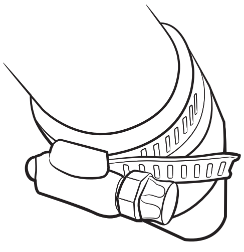
2 Lock flexible hose clamp of the drain hose according to the figure.

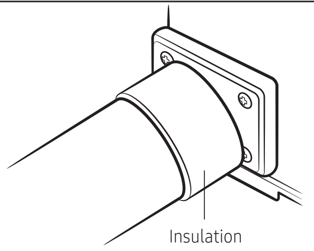
3 Wind and wrap flexible hose clamp and drain hose fully with thermal insulation sponge; fix both ends of external layer with ribbon for thermal insulation.

4 After being installed, drain hose must be insulated fully by heat insulating material. (To be provided at site.)

  - Be sure to tighten the flexible hose clamp of the drain hose.
  - Wrap the insulation after attaching the flexible hose clamp.



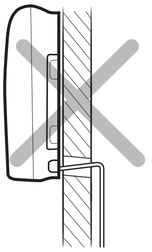

Tighten flexible hose clamp of the drain hose.

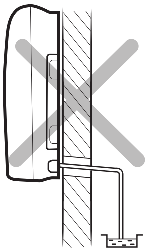


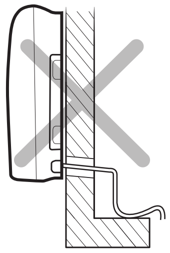
After tightening the flexible hose clamp, attach the Insulation.

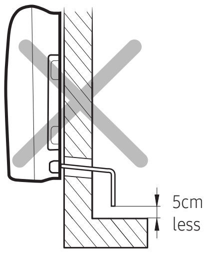
When passing the drain hose through the hole drilled in the wall, check that none of the following situations occur:

AC052/071MNCDKH

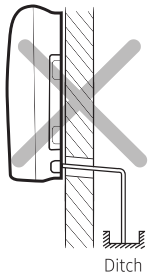

The hose must NOT slope upwards.


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


Do NOT bend the hose in different directions.



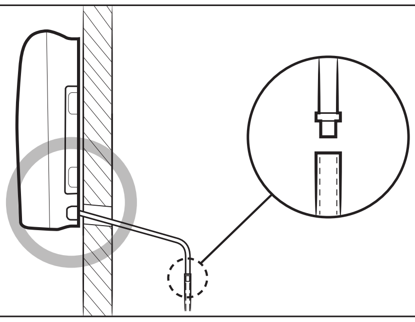
The hose must NOT slope Keep a clearance of at least 5-cm between the end of the hose and the ground.



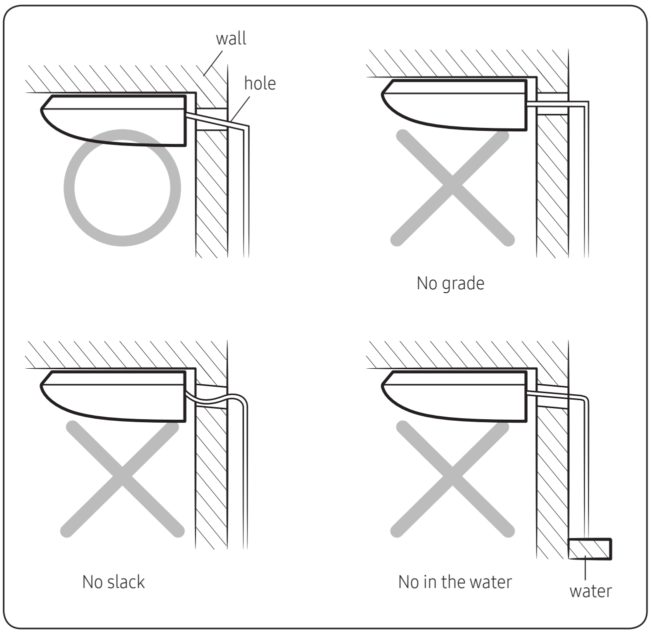
Do NOT place the end of the drain hose in a hollow.

NOTE

- When the drain pipe is not long enough to use, you can extend the drain pipe by connecting an extra drain pipe, as shown in the figure:



AC100/120/140MNCDKH



Connecting the power and communication cables

⚠ CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections.
  When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.

⚠ CAUTION

- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

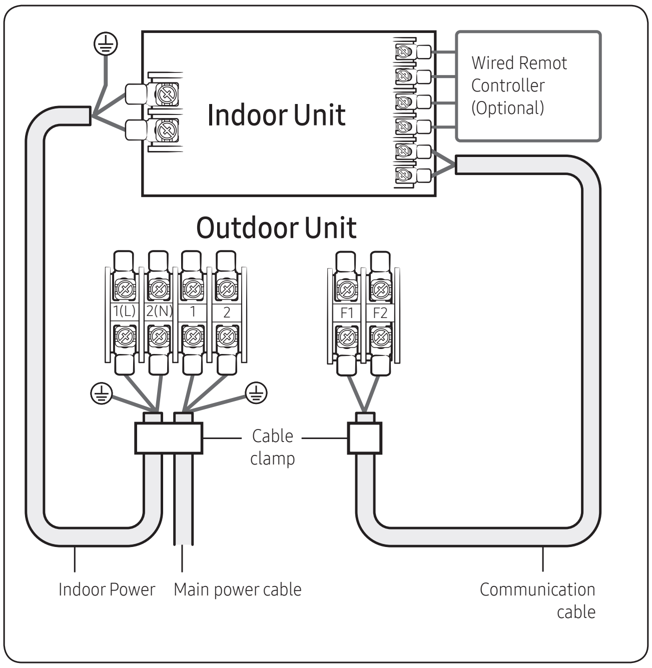
1 Remove the screw on the electrical component box and remove the cover plate.

2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.

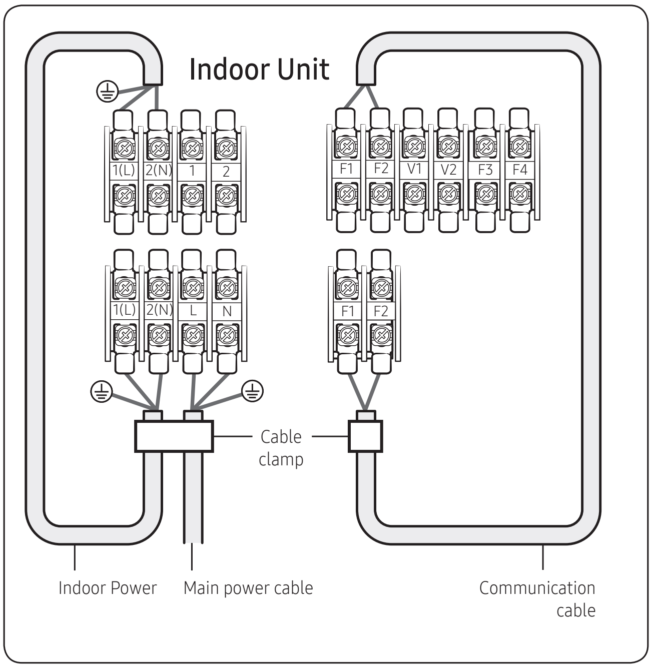
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.

4 Reassemble the electrical component box cover, carefully tightening the screw.

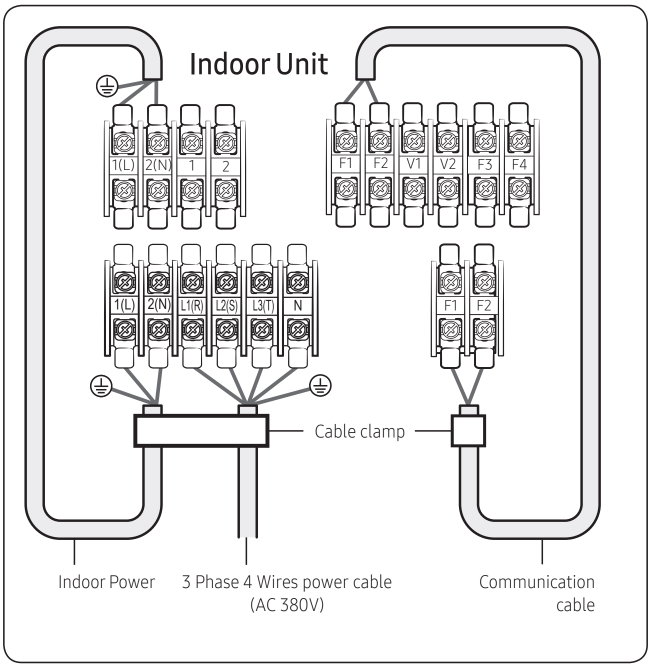
1 phase (✱052/071✱)



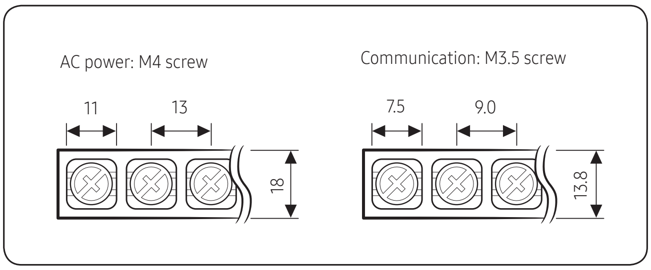
1 phase (✱100/120/140✱)



3 phase (⚹100/120/140⚹)



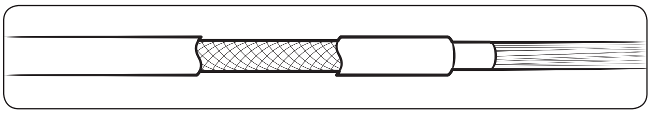
Indoor power supply		
Power supply	**Max/Min(V)**	**Indoor power cable**
220 to 240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		



Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

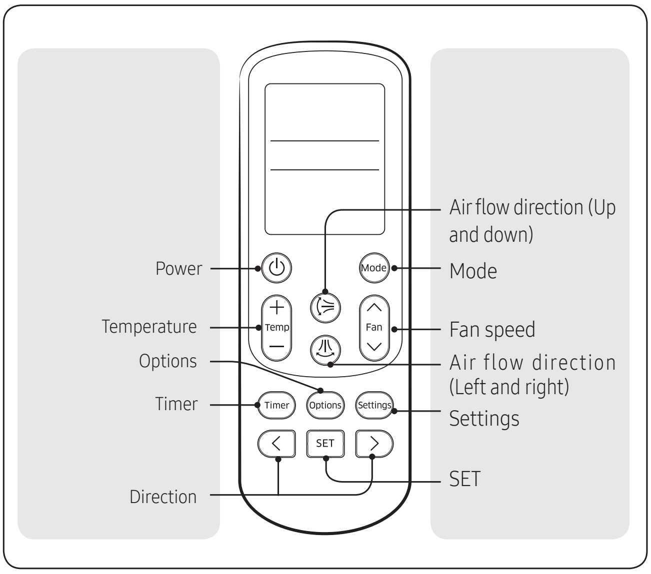
- When installing the indoor unit in a computer room or a server room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

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.
- Please use the proper wireless remote controller which can set 24 digit option code. Following is the instructions of setting option code with wireless remote controller of MR-DH00. (MR-AH01 can be used for operating but cannot be used for setting the installation option because only 12 digit option setting is available.
- Please refer to the wired remote controller installation manual for setting with the wired remote controller.

Common steps for setting the addresses and options

MR-EH00



NOTE

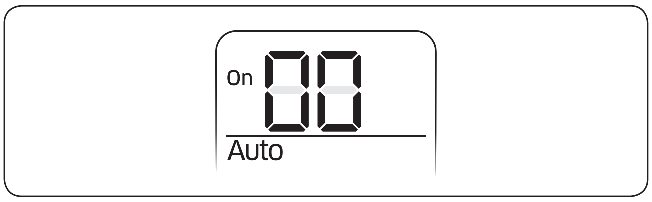
- The remote control display and buttons may vary depending on the model.

1 Entering mode to set option.

   a Remove batteries from the remote controller.

   b Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button .

   c Check if you have entered the option setting status.



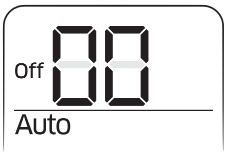
2 The procedure of option setting.

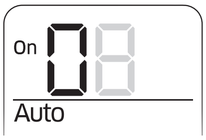
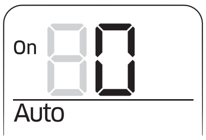
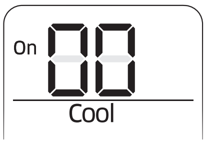
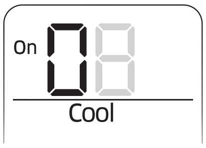
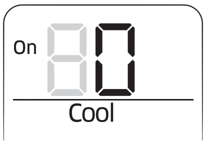
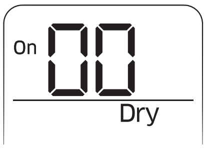
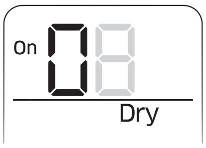
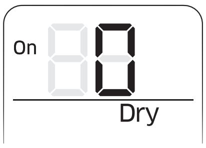
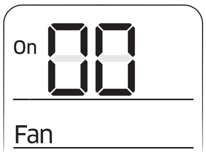
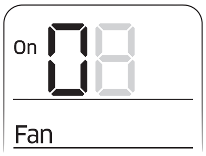
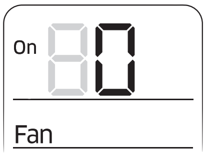
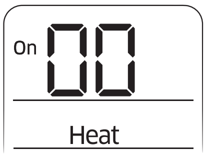
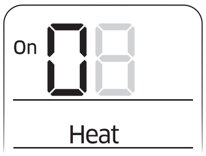
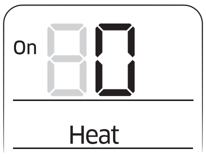
After entering the option setting status, select the option as listed below.

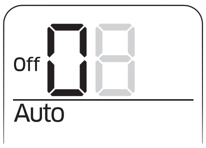
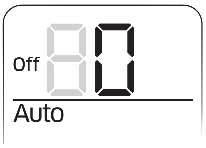
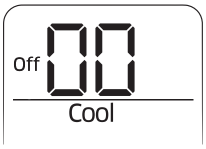
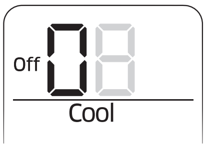
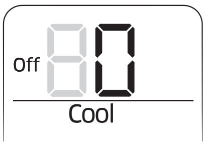
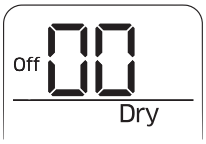
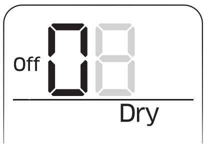
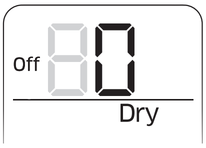
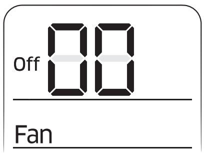
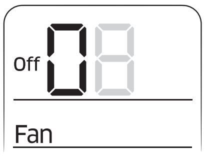
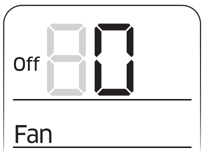
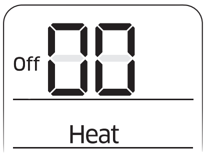
⚠ CAUTION

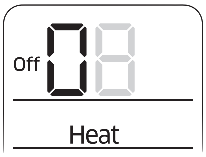
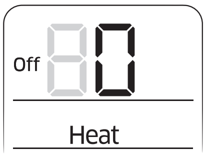
- Option setting is available from SEG1 to SEG 24.
- SEG1, SEG7, SEG13, SEG18 do not need to be set at MR-EH00. They are the page options which were used at the previous other remocons.
- Set the each 2 bit option code in order except page options.
- For example : SEG2, 3 → SEG4, 5 →SEG6, 8 → SEG9, 10 →SEG11, 12 → SEG 14, 15 → SEG 16, 17 → SEG 18, 20 → SEG 21, 22 → SEG23, 24.

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 to SEG12)	Off (SEG13 to SEG24)
	

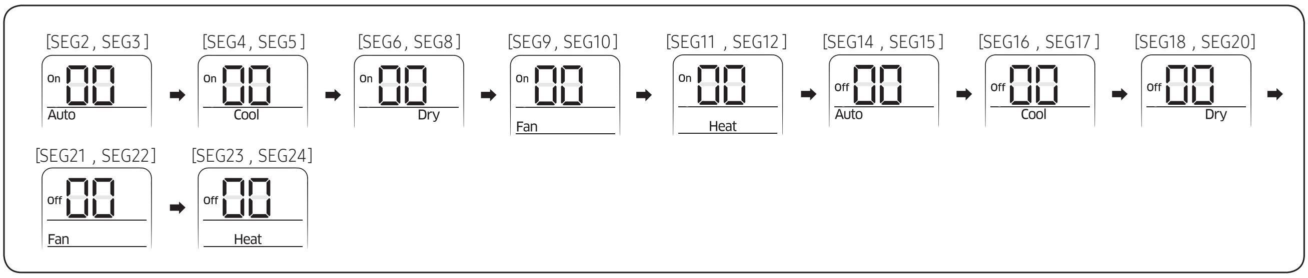
Option setting	Status
1 Setting SEG2, SEG3 option Press Low Fan button(∨) to enter SEG2 value. Press High Fan button(∧) to enter SEG3 value. Each time you press the button, 0 → 1 → ... E → F will be selected in rotation.	 SEG2  SEG3
2 Setting Cool mode Mode Press Mode button to be changed to Cool mode in the ON status.	
3 Setting SEG4, SEG5 option Press Low Fan button(∨) to enter SEG4 value. 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 Press Low Fan button(∨) to enter SEG6 value. 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 Press Low Fan button(∨) to enter SEG9 value. 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
8 Setting Heat mode Mode Press Mode button to be changed to HEAT mode in the ON status.	
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, 0 →1 →... E →F will be selected in rotation.	 SEG11  SEG12

Option setting	Status
10 Setting Auto mode Mode Press Mode button to be changed to AUTO mode in the OFF status.	
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, 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 Press Low Fan button(∨) to enter SEG16 value. 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 Press Low Fan button(∨) to enter SEG18 value. 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
16 Setting Fan mode Mode Press Mode button to be change to Fan mode in the OFF status.	
17 Setting SEG21, SEG22 option Press Low Fan button(∨) to enter SEG21 value. 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.	

Option setting	Status
19 Setting SEG23, SEG24 mode Press Low Fan button(∨) to enter SEG23 value. Press High Fan button(∧) to enter SEG24 value. Each time you press the button, 0→1→... E→F will be selected in rotation.	 SEG23  SEG24

3 Check the option you have set

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



4 Input option

Press operation button ⏻ with the direction of remote control for set.

For the correct option setting, you must input the option twice.

5 Check operation

- Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
- Take the batteries out of the remote controller and insert them again and then press the operation button.

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 "02000-100000-200000-300000".
- Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
- No need to assign SEG3, 6, 8, 9, 10, 11, 14, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indiciated, the initial setting will be maintained.

4 Set the indoor unit option by wireless remote controller.

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

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6
Explanation	PAGE		MODE		RESERVED	Use of external temperature sensor		Use of central control		RESERVED
Indication and Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	
	0		2			0	Disuse	0	Disuse	
						1	Use	1	Use	

Option	SEG7		SEG8	SEG9	SEG10	SEG11	SEG12
Explanation	PAGE		RESERVED	RESERVED	RESERVED	RESERVED	RESERVED
Indication and Details	Indication	Details					
	1						

Option	SEG13		SEG14			SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		Use of external control			Setting the output of external control		S-Plasma ion		Buzzer control		Number of hours using filter	
Indication and Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	Slave (disable Level control*)	0	Thermo on	0	Disuse	0	Use of buzzer	2	1000 Hour
			1	On/Off control									
			2	Off control									
			3	Window on/off control									
			4	Disuse	Master (enable Level control*)	1	Operation on	1	Use	1	Non use of buzzer	6	2000 Hour
			5	On/Off control									
			6	Off control									
			7	Window on/off control									

⚠ CAUTION

- SEG18 is applied in case of strong wind.

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24
Explanation	PAGE		Individual control of a remote controller		Heating setting copensation		RESERVED	RESERVED	RESERVED
Indication and Details	Indication	Details	Indication	Details	Indication	Details			
	3		0 or1	Indoor1	0	Default			
					1	2 °C			
			2	Indoor 2	2	5 °C			
			3	Indoor 3					
			4	Indoor 4					

- If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as “Indoor1”.
  Example) If you want to set as “Exterior temperature sensor : USE, External control : USE, Number of hours using filer : 2000hr”,

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	1	0	-
SEG7	**SEG8**	**SEG9**	**SEG10**	**SEG11**	**SEG12**
1	-	-	-	-	0
SEG13	**SEG14**	**SEG15**	**SEG16**	**SEG17**	**SEG18**
2	-	0	-	0	6
SEG19	**SEG20**	**SEG21**	**SEG22**	**SEG23**	**SEG24**
3	0	0	-	-	-

* Level control: The centralized controller can limit the functions and inputs of connected products with this function enabled. Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit) To enable ‘Level control’ when applying the DPM with the centralized controller, appoint the master (Set ‘Use of external control [SEG14] option to 4 or higher).

Example: When installing DPM (1 Outdoor unit with 4 indoor units)

Condition		SEG14 Setting				Result
External control	Level control	Indoor1	Indoor 2	Indoor 3	Indoor 4	
Default		Not set (0)				Slave (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor1,2,3)

Changing a particular option

You can change each digit of set option.

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		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

NOTE

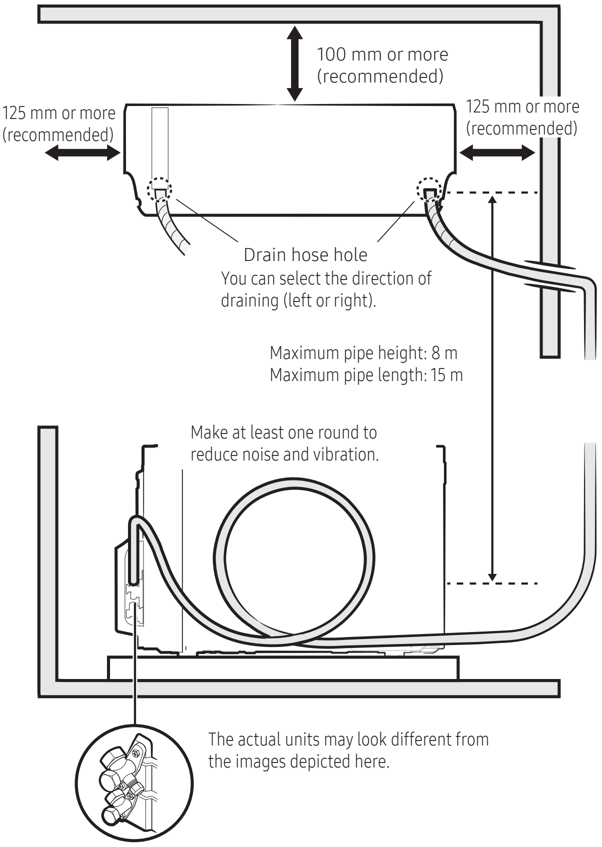
- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'.
  Ex) When setting the 'buzzer control' into disuse status.

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	The changed value
Indication	0	D	2	1	7	1

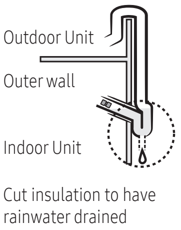
7. Wall mounted Type

Spacing requirements

Overview of installation location requirements



The actual units may look different from the images depicted here.

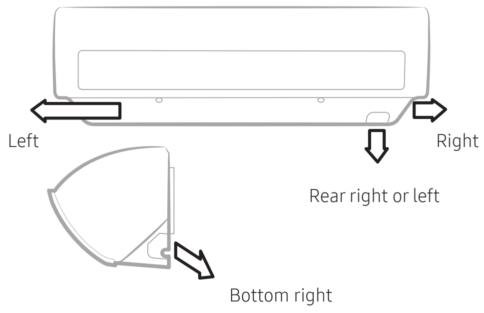


CAUTION

Make a U-trap (A) on the pipe (which is connected to the indoor unit) at outer wall and cut the bottom part of the insulation (about 10 mm) to prevent rainwater from getting inside through the insulation.

Before fixing the installation plate to a wall and then fixing the indoor unit to the installation plate, a window frame, or a gypsum board, you must determine the position of a hole (with 65 mm inner diameter) through which the pipe bundle (consisting of power and communication cables, refrigerant pipes, and drain hose) will pass and then drill that hole.

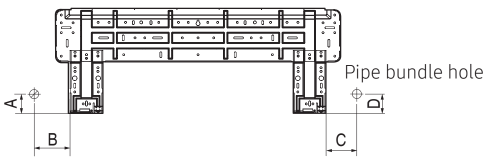
1 Determine the position of a 65 mm hole in consideration of the possible directions of the pipe bundle and the minimum distances between the hole and the installation plate.



<Possible directions of the pipe bundle>

⚠ CAUTION

- If changing the pipe direction from left to right, do not drastically bent it but slowly turn it in the opposite direction as shown. Otherwise, the pipe may be damaged in the process.



<Minimum distances between the hole and the installation plate>

(Unit : mm)

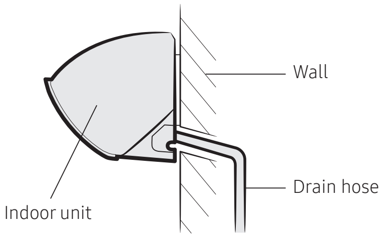
Model	A	B	C	D
AC026MNADKH AC035MNADKH	36	60	65	36
AC052MNADKH	36	190	81	36
AC071MNADKH	33	110	110	33

Pipe bundle hole: Ø 65 mm

2 Drill the hole.

⚠ CAUTION

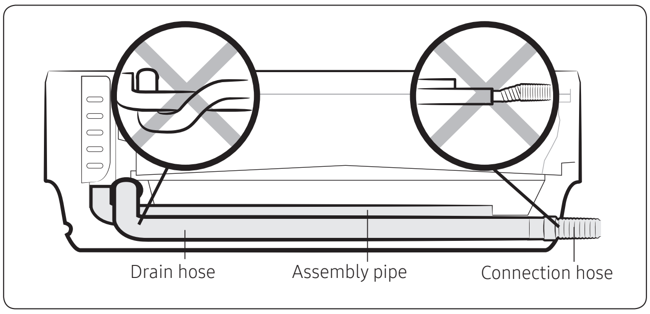
- Be sure to drill only one hole.
- Make sure that the hole slants downwards so that the drain hose slants downwards to drain water well.

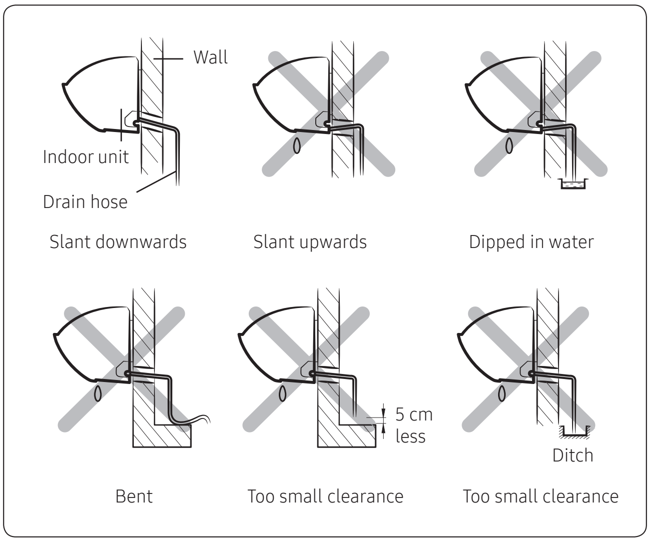


<The hole slants downwards>

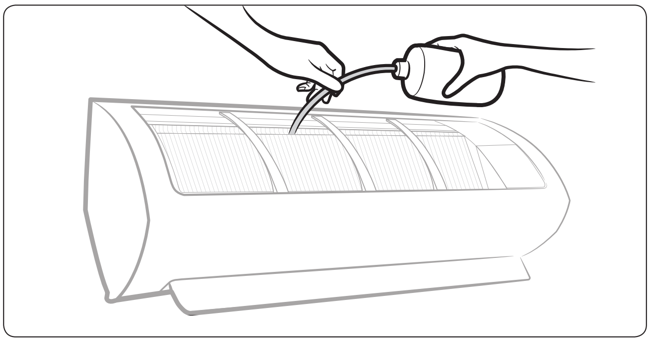
Installing the drain hose and drain pipe

1 Install the drain hose.





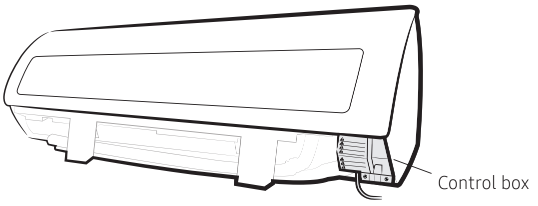
2 Pour water into the drain pan. Check whether the hose is well drained.

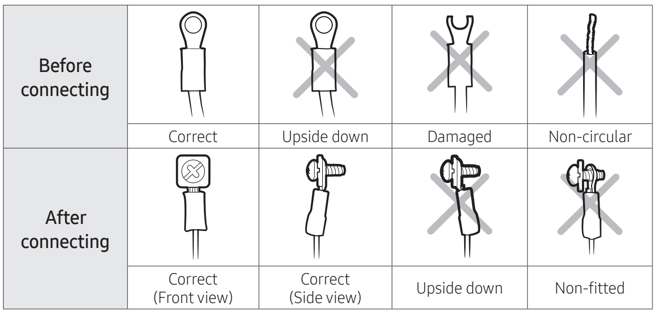


⚠ CAUTION

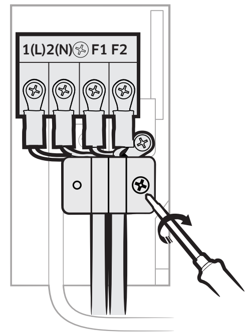
- Make sure that the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical part.
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.
- Inadequate installation may cause water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- Do not box in or cover the drain hose connection.
  Drain hose connection must be easily accessible and serviceable.

Connecting the power and communication cables





<Circular terminal>



Fasten the screws for the wire holders.

Model	AC026MNADKH AC035MNADKH AC052MNADKH AC071MNADKH
Power cable (Outdoor unit)	3G X 1.5 mm², H07RN-F
Outdoor-to-indoor power cable	3G X 1.0 mm², H07RN-F
Communication cable	2 X 0.75 mm², H05RN-F
Type GL	16A

- When performing electrical and earthing works, be sure to comply with the 'technical standards of electrical installations' and the 'wiring regulations' in the local regulations.
- Tighten the terminal block screw to 1.2-1.8 N•m (12-18 kgf•cm).

NOTE

- Each wire is labelled with the corresponding terminal number.
- Use shield cable (Category 5; less than 50pF/m) for noisy environmental site.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC: 60245 IEC 66/CENELEC: H07RN-F, IEC: 60245 IEC 57/CENELEC: H05RN-F)
- Power & Communication cable shall not exceed 30m.

⚠ CAUTION

- For the terminal block wiring, use a wire with a ring terminal socket only. Regular wires without a ring terminal socket may become a hazard due to overheating of the electrical contact during installation.
- If you need to extend the pipe, be sure to extend the cable too. The maximum length of each of the cable and pipe used should not exceed 15 metres.
- Do not connect two or more different cables to extend the length. This connection may cause fire.
- Each circular terminal must match the size of its corresponding screw in the terminal block.
- After connecting the cables, make sure that terminal numbers on the indoor and outdoor units match.
- Ensure that power and communication cables are separated, they must not be in the same cable.

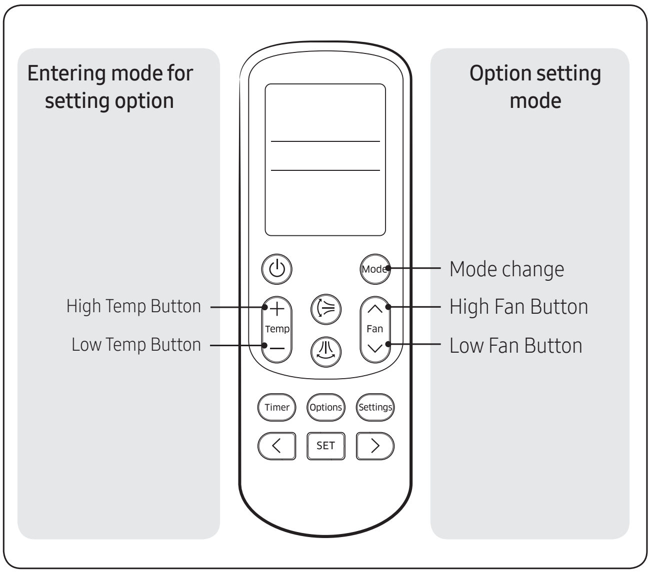
⚠ WARNING

- Connect the wires firmly so that wires cannot be pulled out easily. (If they are loose, it could cause burn-out of the wires.)

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.
- Please use the proper wireless remote controller which can set 24 digit option code.
- Please refer to the wired remote controller installation manual for setting with the wired remote controller.

Common steps for setting the addresses and options



NOTE

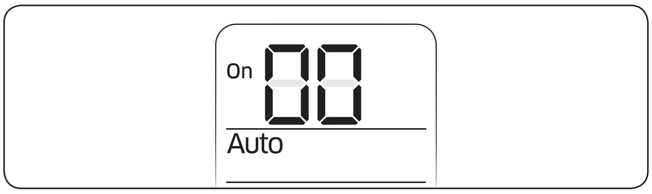
- The remote control display and buttons may vary depending on the model.

1 Enter the mode for setting the options:

  a Remove the batteries from the remote control, and then insert them again.

  b While holding down the +Temp (High Temp) and Temp− (Low Temp) buttons simultaneously, insert the batteries into the remote control.

  c Make sure that you are entered to the mode for setting the options:



2 Set the option values.

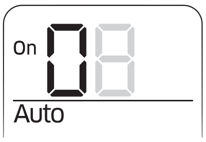
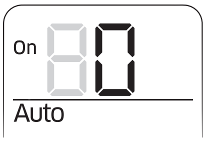
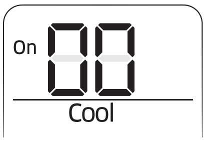
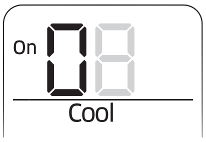
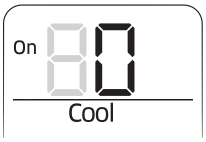
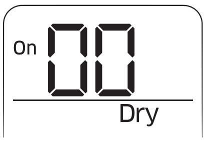
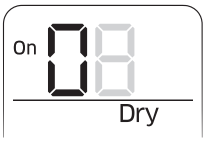
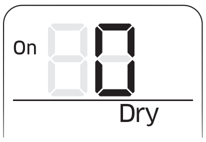
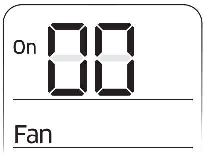
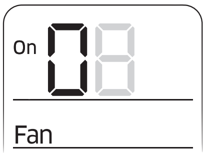
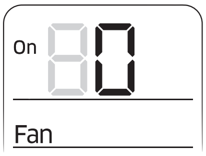
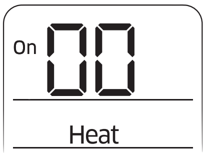
⚠ CAUTION

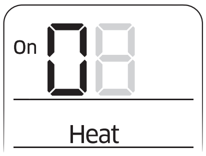
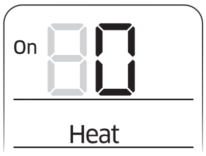
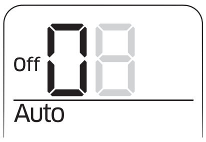
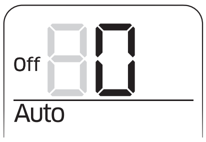
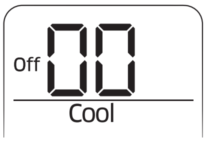
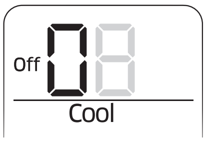
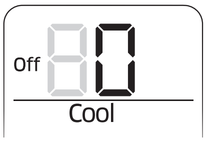
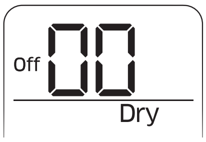
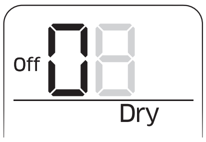
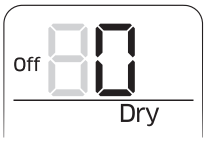
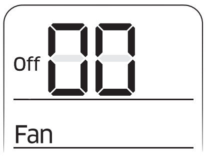
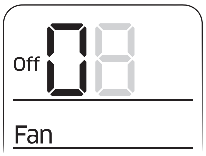
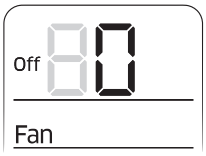
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

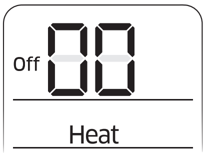
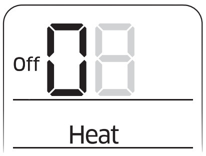
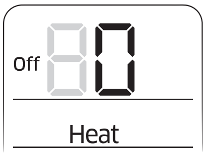
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

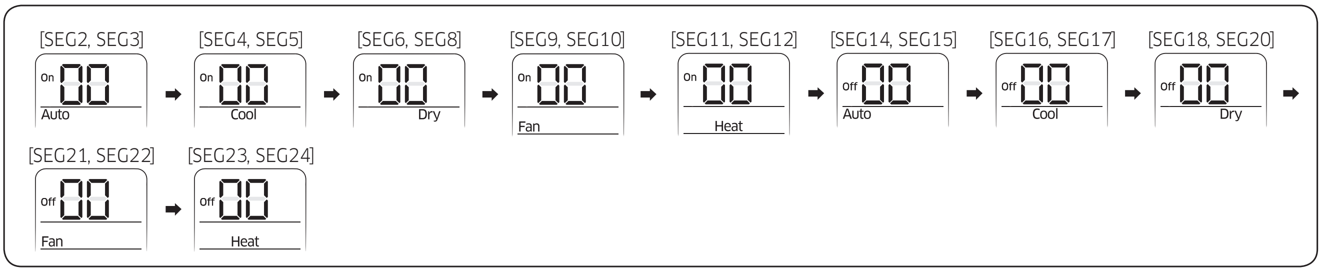
Take the steps presented in the following table:

Option setting	Status
1 Setting SEG2, SEG3 option Press Low Fan button to enter SEG2 value. Press High Fan button to enter SEG3 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG2  SEG3
2 Setting Cool mode Press Mode button to be changed to Cool mode in the ON status.	
3 Setting SEG4, SEG5 option Press Low Fan button to enter SEG4 value. 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 Press Mode button to be changed to DRY mode in the ON status.	
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG6  SEG8
6 Setting Fan mode Press Mode button to be changed to FAN mode in the ON status.	
7 Setting SEG9, SEG10 option Press Low Fan button to enter SEG9 value. 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
8 Setting Heat mode Press Mode button to be changed to HEAT mode in the ON status.	

Option setting	Status
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG11  SEG12
10 Setting Auto mode Press Mode button to be changed to AUTO mode in the OFF status.	
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG14  SEG15
12 Setting Cool mode Press Mode button to be changed to Cool mode in the OFF status.	
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG16  SEG17
14 Setting Dry mode Press Mode button to be changed to Dry mode in the OFF status.	
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, 0 → 1 → ··· E → F will be selected in rotation.	 SEG18  SEG20
16 Setting Fan mode Press Mode button to be changed to Fan mode in the OFF status.	
17 Setting SEG21, SEG22 option Press Low Fan button to enter SEG21 value. 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

Option setting	Status
18 Setting Heat mode Mode Press Mode button to be changed to HEAT mode in the OFF status.	
19 Setting SEG23, SEG24 option Press Low Fan button Fan to enter SEG23 value. Press High Fan button Fan to enter SEG24 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG23  SEG24

3 Check whether the option values that you have set are correct by pressing the Mode button repeatedly.



4 Save the option values into the indoor unit:

Press the ⏻ button with the direction of remote control for set. For correcting option values, input the option values twice.

5 Check whether the air conditioner operates in accordance with the option values you have set:

a Reset the indoor unit by pressing the Reset button on the indoor or outdoor unit.

b Remove the batteries from the remote control, insert them again, and then press the ⏻ button on the remote control.

Setting an indoor unit address and installation option

Setting the indoor unit addresses

1 Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.

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 indoor unit ADDRESS is set as "MAIN : 0, RMC : 0".
- Set Main and RMC Address only the setting is required.
- There is no need to assign the indoor unit Main Address if the outdoor unit is addressing automatically.
  The indoor unit Main address will follow the outdoor unit's automatically.
- Assign 12 digit when setting the indoor unit address.
- No need to assign SEG4, 5, 8, 10 which are non applicable. Even though those segments are set, they will be ignored.
- If you set the applicable segments with numbers other than the indiciated, the initial setting will be maintained.

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

Option	SEG1		SEG2		SEG3		SEG4	SEG5	SEG6	
Explanation	PAGE		MODE		Setting Main address		RESERVED	RESERVED	The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details			Indication	Details
	0		A		0	No Main address			0~3(ACN*)	Details
					1	Main address setting mode			0~4 (AJN*)	A single digit

Option	SEG7		SEG8	SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE		RESERVED	Setting RMC address		RESERVED	Group channel(*16)		Group address	
Indication and Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
	1			0	No RMC address		RMC1	0~2	RMC2	0~F
				1	RMC address setting mode					

* SEG6: AJN** models should check maximum installation indoor unit number of outdoor unit.
(Indoor1: 0, Indoor2: 1, ~)

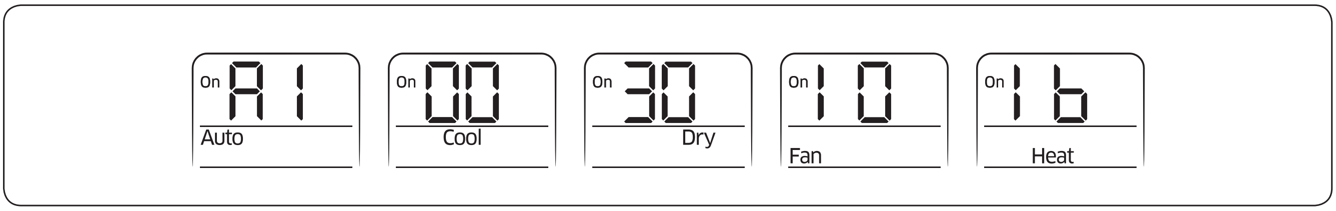
⚠ CAUTION

- 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 SEG6.
- 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.

Example) If you want to set as "MAIN: 3, CHANNEL: 1, RMC: B",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	A	1	-	-	3
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	1	-	1	B

assign option codes except SEG 1, 7 which are page options.



Setting the installation options in a batch

1. Make sure that the power is supplied to the indoor unit. If the indoor unit is not plugged in, it must include a power supply.
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 “02000-100000-200000-300000”.
    - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
    - No need to assign SEG3, 6, 9, 10, 11, 16, 21, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
    - If you set the applicable segments with numbers other than the indiciated, the initial setting will be maintained.
4. Set the indoor unit option by wireless remote controller.

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

Option	SEG1		SEG2		SEG3	SEG4		SEG5		SEG6
Explanation	PAGE		MODE		RESERVED	Use of external temperature sensor		Use of central control		RESERVED
Indication and details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	
	0		2			0	Disuse	0	Disuse	
						1	Use	1	Use	

Option	SEG7		SEG8		SEG9	SEG10	SEG11	SEG12	
Explanation	PAGE		Use of drain pump		RESERVED	RESERVED	RESERVED	Group address	
Indication and details	Indication	Details	Indication	Details				Indication	Details
	1		0	Disuse				0	slave
			1	Use				1	master
			2	Use + 3minute delay					

Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18
Explanation	PAGE		Use of external control		Setting the outputof external control		S-Plasma ion		Buzzer control		RESERVED
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	2		0	Disuse	0	Thermo on	0	Disuse	0	Use	
			1	On/Off control							
			2	Off control	1	Operation on	1	Use	1	Disuse	
			3	Window on/off control							

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24
Explanation	PAGE		Individual control of a remote controller		Heating settingcompensation		RESERVED	RESERVED	RESERVED
Indication and details	Indication	Details	Indication	Details	Indication	Details			
	3		0 or 1	Indoor 1	0	Disuse			
			2	Indoor 2					
			3	Indoor 3					
			4	Indoor 4	1	2˚C			
					2	5˚C			

If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as "Indoor 1".

Example) If you want to set as "Exterior temperature sensor : USE, External control : USE",

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

assign option codes except SEG 1, 7, 13, 19 which are page options.

* Level control : The centralized controller can limit the functions and inputs of connected products with this function enabled.
[Example: Operation mode limit (Cooling only/Heating only/No limitation), Heating temperature upper limit, Cooling temperature lower limit]
To enable 'Level control' when applying the DPM with the centralized controller, appoint the master
(Set 'Use of external control [SEG14] option to 4 or higher).

Example : When installing DPM (1 Outdoor unit with 4 indoor units)

Condition		SEG14 Setting				Result
External control	Level control	Indoor 1	Indoor 2	Indoor 3	Indoor 4	
Default		Not set (0)				Slave (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Master (Indoor 1), Slave (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Slave (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Master (Indoor 4), Slave (Indoor 1,2,3)

Changing the addresses and options individually

You can change each digit of set option.

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		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

NOTE

- 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'.

Example) When setting the 'buzzer control' into disuse status.

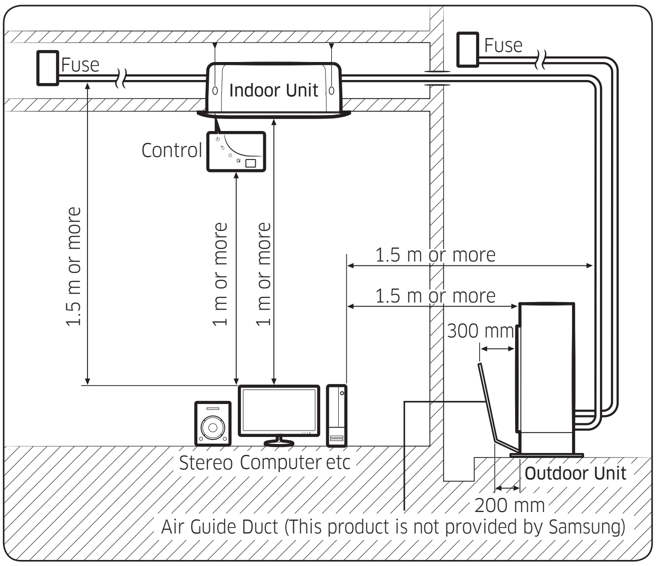
Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

8. Outdoor Unit

Choosing the installation location

Installation location requirements

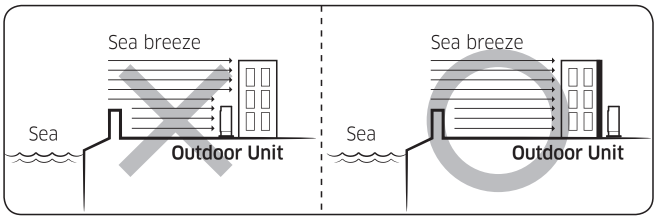
- Do not place the outdoor unit on its side or upside down. Failing to do so may cause the compressor lubrication oil to run into the cooling circuit and lead to a serious damage to the unit.
- Install the unit in a well-ventilated location away from direct sunlight or strong winds.
- Install the unit in a location that would not obstruct any passageways or thoroughfares.
- Install the unit in a location that would not inconvenience or disturb your neighbors, as they could be affected by the noise or the airflow coming from the unit.
- Install the unit in a location where the pipes and the cables can be easily connected to the indoor unit.
- Install the unit on a flat, stable surface that can withstand the weight of the unit. Otherwise, the unit can generate noise and vibration during operation.
- Install the unit so that the air flow is directed towards the open area.
- Maintain sufficient clearance around the outdoor unit, especially from a radio, computer, stereo system, etc.



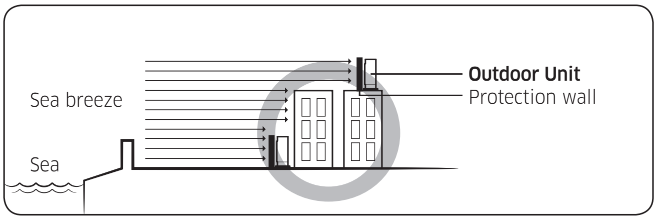
- Install the unit at a height where its base can be firmly fixed in place.
- Make sure that the water dripping from the drain hose runs away correctly and safely.

⚠ CAUTION

- You have just purchased a system air conditioner and it has been installed by your installation specialist.
- This device must be installed according to the national electrical rules.
- If your outdoor unit exceeds a net weight of 60 kg, do not install it on a suspended wall, but stand it on a floor.
- When installing the outdoor unit at the seaside, make sure that it is not directly exposed to sea breeze. If you cannot find an adequate place free from direct sea breeze, construct a protection wall or a protective fence.
  - Install the outdoor unit in a place (such as near buildings etc.) where it can be prevented from sea breeze. Failure to do so may cause a damage to the outdoor unit.



- If you cannot avoid installing the outdoor unit at the seaside, construct a protection wall around to block the sea breeze.
- Construct a protection wall with a solid material such as concrete to block the sea breeze. Make sure that the height and the width of the wall are 1.5 times larger than the size of the outdoor unit. Also, secure a space larger than 700 mm between the protection wall and the outdoor unit for exhausted air to ventilate.



⚠ CAUTION

- Depending on the condition of power supply, unstable power or voltage may cause malfunction of the parts or control system. (At the ship or places using power supply from electric generator...etc)

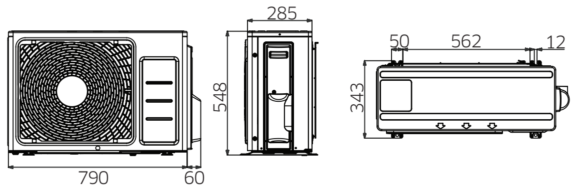
Installation

- Install the unit in a place where water can drain smoothly.
- If you have any difficulty finding installation location as prescribed above, contact your manufacturer for details.
- Be sure to clean the sea water and the dust on the heat exchanger of the outdoor unit and apply a corrosion inhibitor on it. (At least once in a year.)

Outdoor unit dimensions

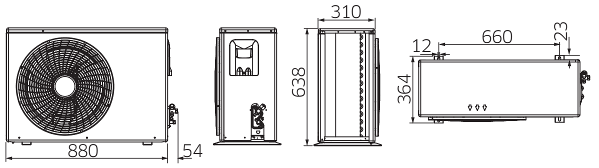
A Type

AC026MXADKH/AC035MXADKH



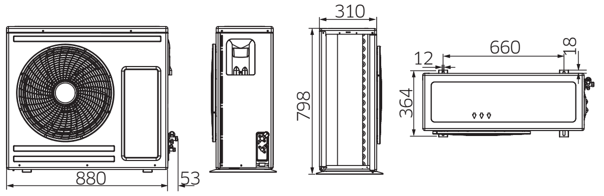
B Type

AC052MXADKH/AC060MXADKH



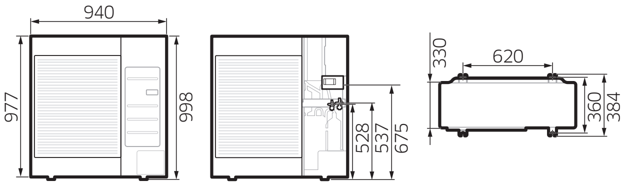
C Type

AC071MXADKH



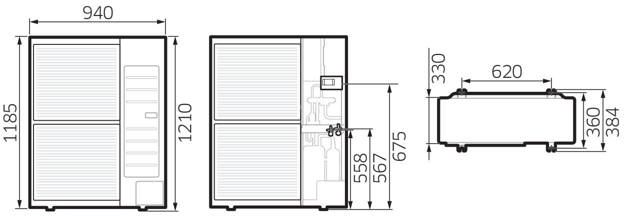
D Type

AC090MXADKH/AC090MXADNH/AC100MXADKH/AC100MXADNH/AC120MXADKH/AC120MXADNH



E Type

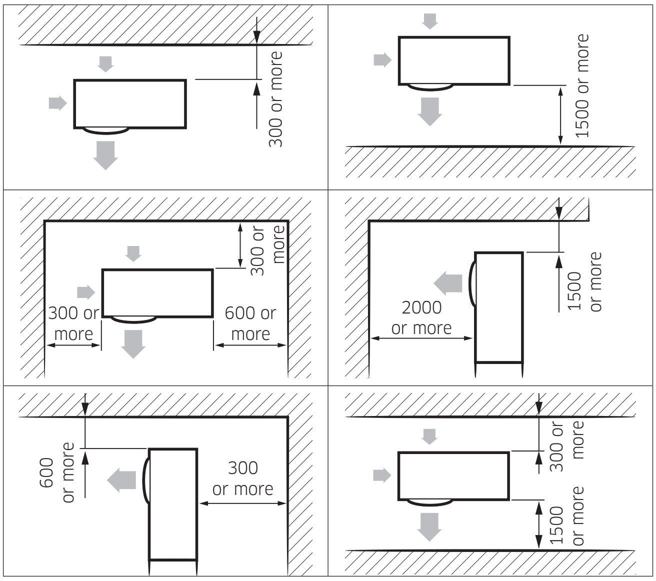
AC140MXADKH/AC140MXADNH



Minimum clearances for the outdoor unit

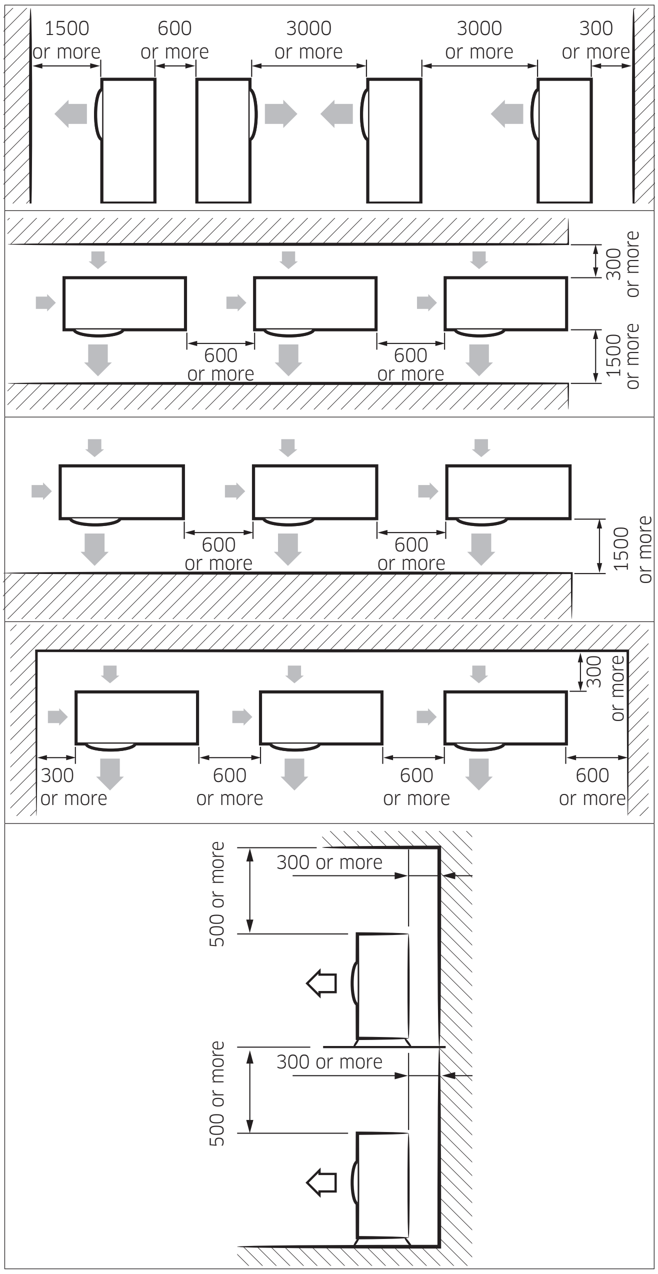
When installing 1 outdoor unit

(Unit: mm)



When installing more than 1 outdoor unit

(Unit: mm)

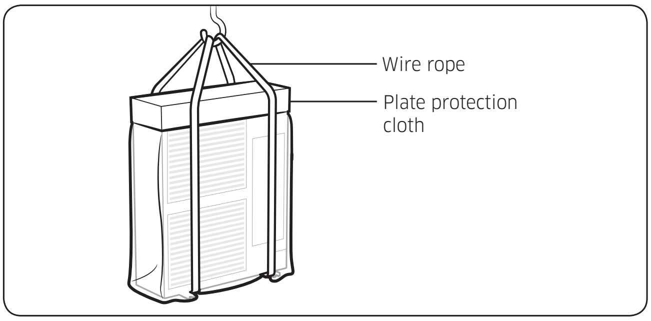


⚠ CAUTION

- The outdoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit.
  The components of the outdoor unit must be reachable and removable under safe conditions for people and the unit.

Moving the outdoor unit with wire rope

1. Before carrying the outdoor unit, fasten two wire ropes of 8 m or longer, as shown in the figure.
2. To prevent damages or scratches effectively, insert a piece of cloth between the outdoor unit and the ropes.
3. Move the outdoor unit.



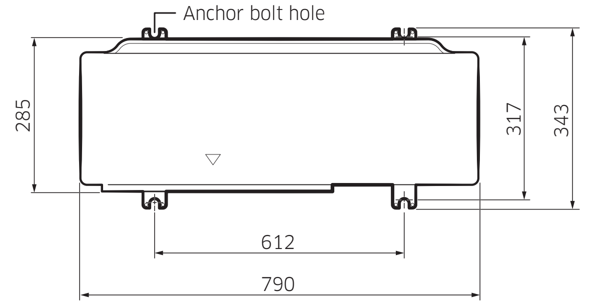
Fixing the outdoor unit in place

Install the outdoor unit on a rigid and stable base to prevent disturbance from any noise caused by vibration. When installing the unit at a height or in a location exposed to strong winds, fix the unit securely to a support (i.e., a wall or a ground).

Fix the outdoor unit with anchor bolts. Make sure that the anchor bolts are 20 mm or higher from the base surface.

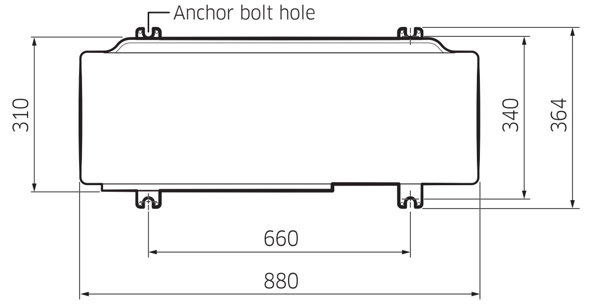
AC026/035MXADKH

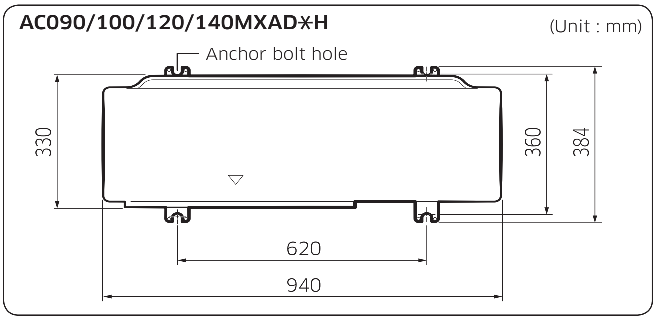
(Unit : mm)



AC052/060/071MXADKH

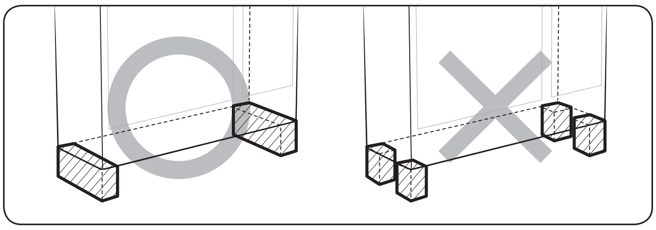
(Unit : mm)





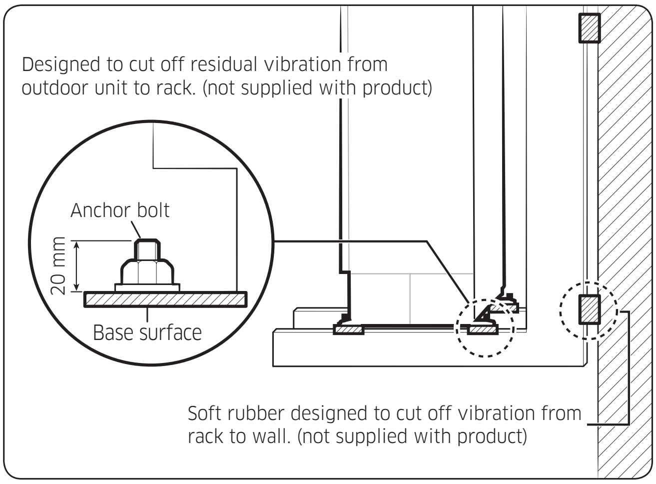
⚠ CAUTION

- Install a drain outlet at the lowest end around the base for outdoor unit drainage
- When installing the outdoor unit on the roof, waterproof the unit and check the ceiling strength.



- Make sure that the wall can support the weights of the rack and the outdoor unit.
- Install the rack close to the column as much as possible.

Optional: Fixing the outdoor unit to a wall with a rack



- Install a proper grommet in order to reduce noise and residual vibration transferred by the outdoor unit towards the wall.

⚠ CAUTION

- When installing an air guide duct, be sure to check the following:
  - The screws do not damage the copper pipe.
  - The air guide duct is fixed firmly on the guard fan.

Connecting the power cables & communication cable, and controllers

You must connect the following three electrical cables to the outdoor unit:

- The main power cable between the auxiliary circuit breaker and the outdoor unit.
- The outdoor-to-indoor power cable between the outdoor unit and the indoor unit.
- The communication cable between the outdoor unit and the indoor unit.

⚠ CAUTION

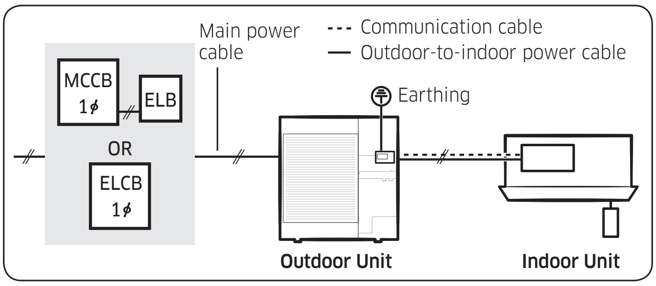
- During installation, make first the refrigerant connections and then the electrical connections. If the unit is uninstalled, first disconnect the electrical cables and then the refrigerant connections.
- Connect the air conditioner to the earthing system before making the electrical connections.

NOTE

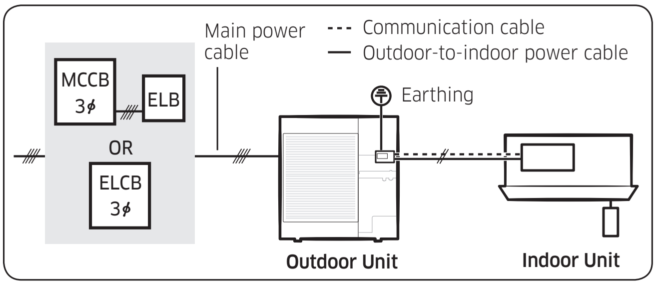
- Especially, if your outdoor unit is the one designed for Russian and European markets, consult the supply authority, if necessary, to estimate and reduce the supply system impedance before installation.

Air conditioning system examples

When using earth leakage circuit breaker (ELCB) for a single phase



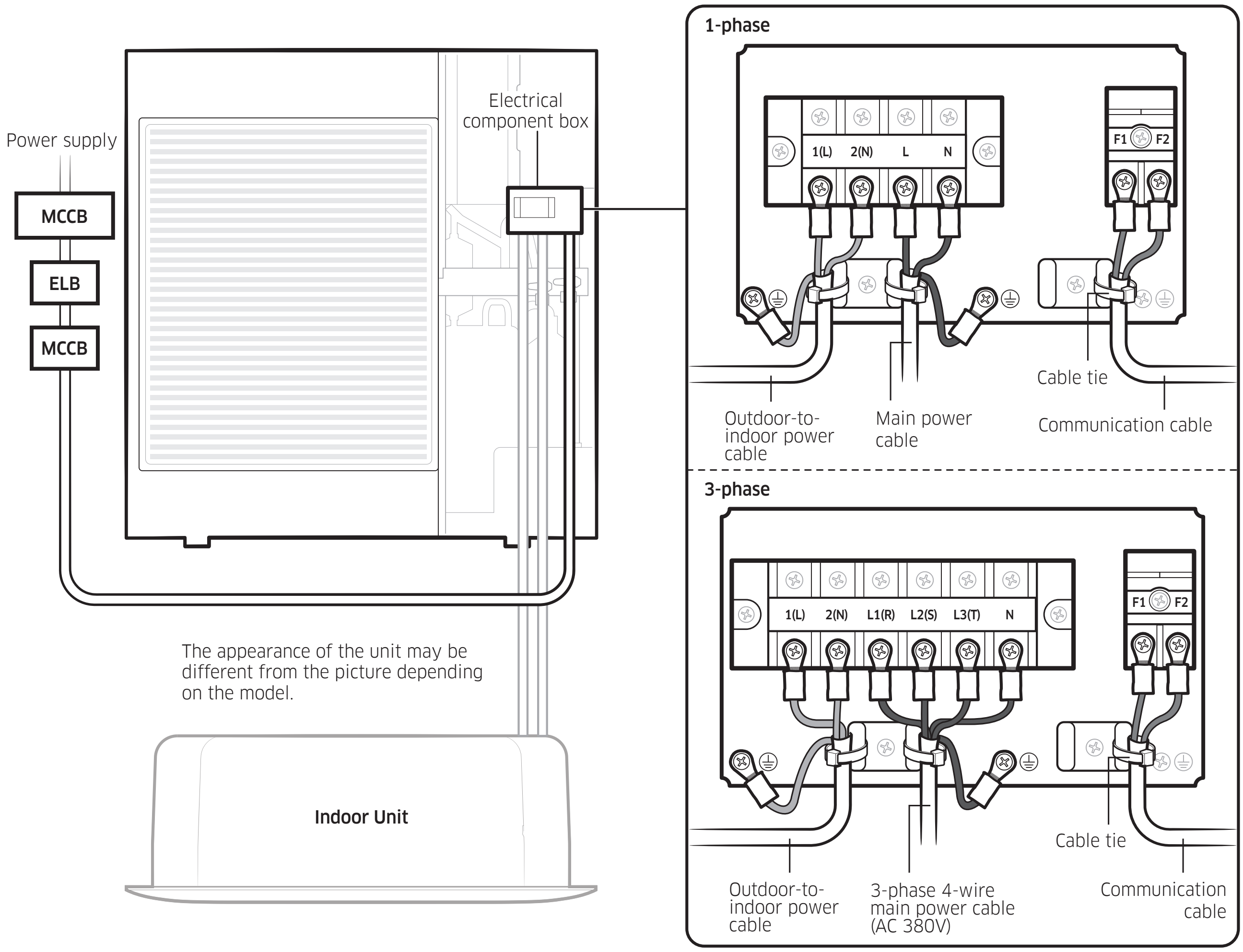
When using earth leakage circuit breaker (ELCB) for a 3-phase, 4-wire system (3P4W)



⚠ CAUTION

- If the outdoor unit is installed in a location vulnerable to an electric leak or submergence, make sure to install an ELCB.

When using ELB for1 phase and 3 phase



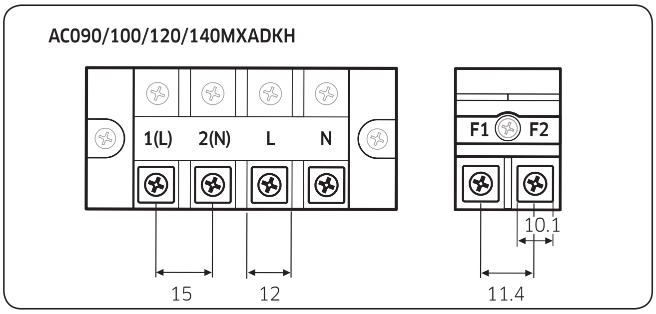
The appearance of the unit may be different from the picture depending on the model.

⚠ CAUTION

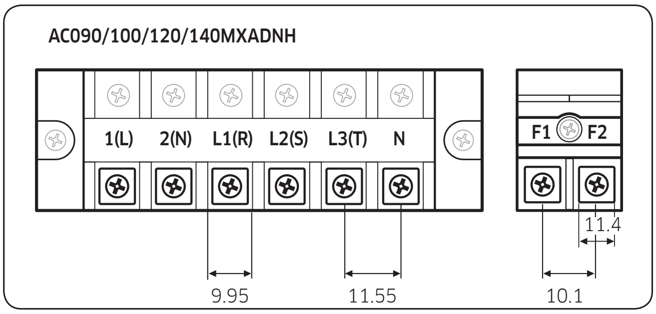
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2% of supply rating.
  If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, 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 within ducts. (with appropriate IP rating and material selection for your application)
- Ensure that main supply connection is made through a switch that disconnects all poles, with contact gap of a least 3 mm.
- Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.
- Keep distances of 50 mm or more between power cable and communication cable.

Main power terminal block specifications

- 1-phase terminal block specifications



- 3-phase terminal block specifications



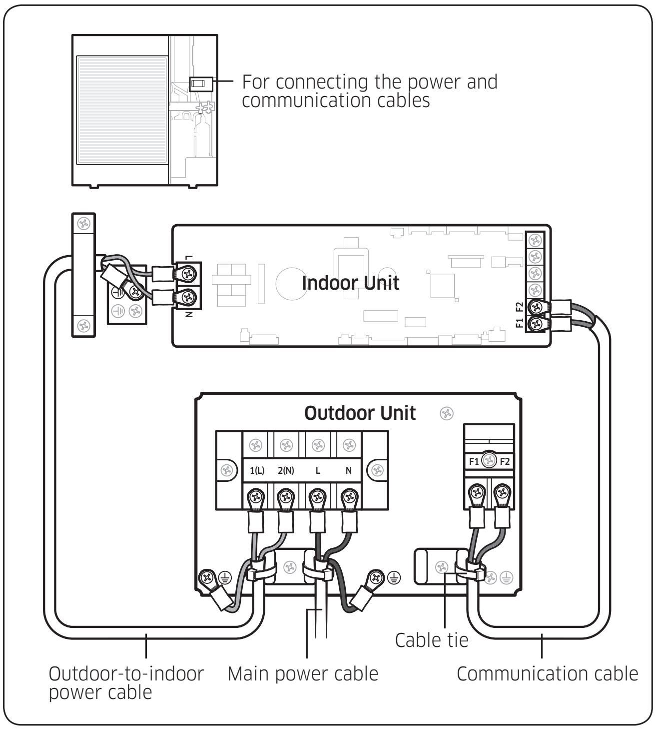
Main power cable specifications

The power cable is not supplied with air conditioner.

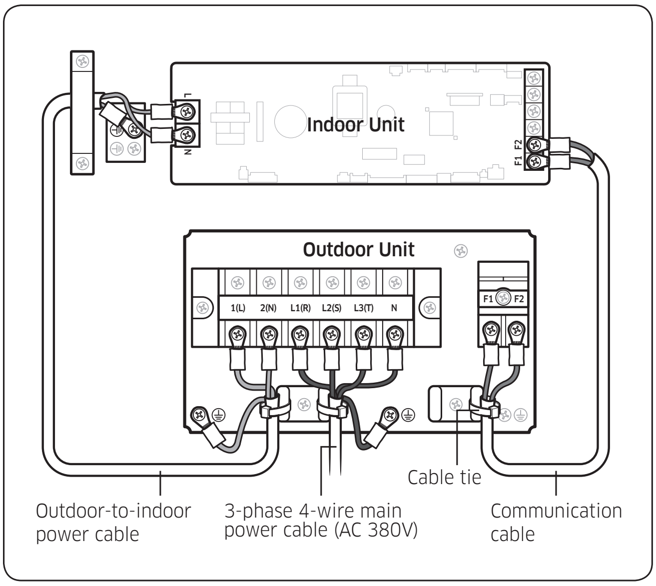
- Select the power supply cable in accordance with relevant local and national regulations.
- Wire size must comply with the applicable local and national code.
- Specifications for local wiring power cord and branch wiring are in compliance with local cord.

Connecting the power cables & communication cable, and controllers

1-phase



3-phase

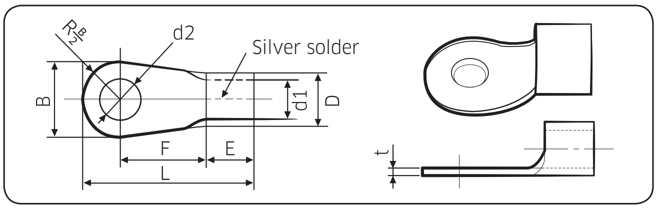


NOTE

- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.
- Ground wire for the indoor unit and outdoor unit connection cable must be clamped to a soft copper tin-plated eyelet terminal with M4 screw hole(NOT SUPPLIED WITH UNIT ACCESSORIES).

Outdoor-to-indoor power terminal specifications

- Connect the cables to the terminal board using the compressed ring terminal.
- Cover a solderless ring terminal and a connector part of the power cable and then connect it.



Nominal dimensions for cable (mm²)	Nominal dimensions for screw (mm)	B		D		d1		E	F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min. (mm)	Min. (mm)	Max. (mm)	Standard dimension (mm)	Allowance (mm)	Min. (mm)
4/6	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9
	8	15							9	28.5	8.4	+0.4 0	
10	8	15	±0.2	7.1	+0.3 -0.2	4.5	±0.2	7.9	9	30	8.4	+0.4 0	1.15
16	8	16	±0.2	9	+0.3 -0.2	5.8	±0.2	9.5	13	33	8.4	+0.4 0	1.45
25	8	12	±0.3	11.5	+0.5 -0.2	7.7	±0.2	11	15	34	8.4	+0.4 0	1.7
	8	16.5							13		8.4		
35	8	16	±0.3	13.3	+0.5 -0.2	9.4	±0.2	12.5	13	38	8.4	+0.4 0	1.8
	8	22							13	43	8.4		
50	8	22	±0.3	13.5	+0.5 -0.2	11.4	±0.3	17.5	14	50	8.4	+ 0.4 0	1.8
70	8	24	±0.4	17.5	+0.5 -0.4	13.3	±0.4	18.5	20	51	8.4	+ 0.4 0	2.0

- Connect the rated cables only.
- Connect using a driver which is able to apply the rated torque to the screws.
- If the terminal is loose, fire may occur caused by arc. If the terminal is connected too firmly, the terminal may be damaged.

Tightening torque (kgf • cm)	
M4	12.0 to 18.0
M5	20.0 to 30.0

- 1N · m = 10 kgf · cm

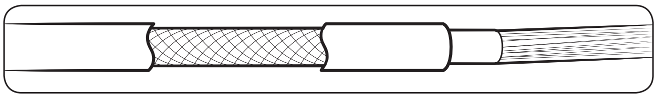
⚠ CAUTION

- When connecting cables, you can connect the cables to the electrical part or connect them through the holes below depending on the spot.
- Connect the communication cable between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.
- Remove all burrs at the edge of the knock-out hole and secure the cable to the outdoor knock-out using lining and bushing with an electrical insulation such as rubber and so on.
- Must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- When the cables are connected through the hole, remove the Plate bottom.

Outdoor-to-indoor power and communication cables specifications

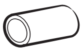
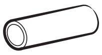
Indoor power supply		
Power supply	Max/Min (V)	Indoor power cable
1Φ, 220-240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		

- 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)
- When installing the indoor unit in a computer room or net work room, use the double shielded (tape aluminium / polyester braid + copper) cable of FROHH2R type.



Extending the power cable

1 Prepare the following tools.

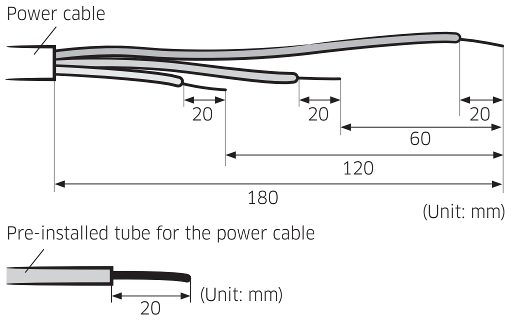
Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve (mm)	20xØ6.5 (HxOD)	
Insulation tape	Width 19 mm	
Contraction tube (mm)	70xØ8.0 (LxOD)	

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

- Peel off 20 mm of cable shields from the pre-installed tube.

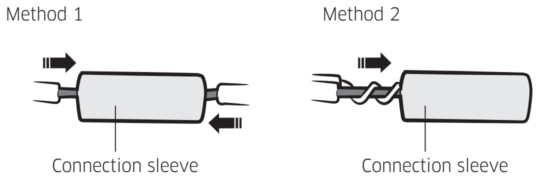
⚠ CAUTION

- 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.



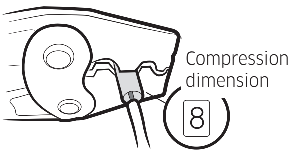
3 Insert both sides of core wire of the power cable into the connection sleeve.

- **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.

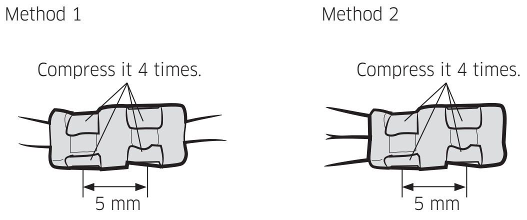


4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.

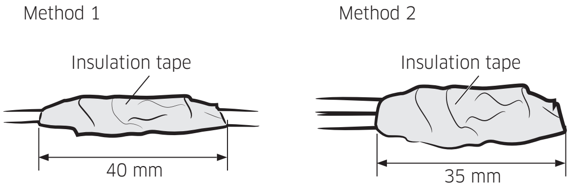
- The compression dimension should be 8.0.



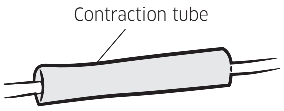
- After compressing it, pull both sides of the wire to make sure it is firmly pressed.



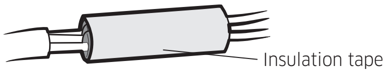
5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.
Three or more layers of insulation are required.



6 Apply heat to the contraction tube to contract it.



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

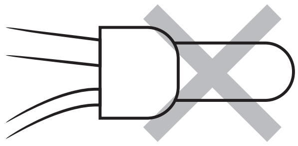


⚠ CAUTION

- 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.)

⚠ WARNING

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

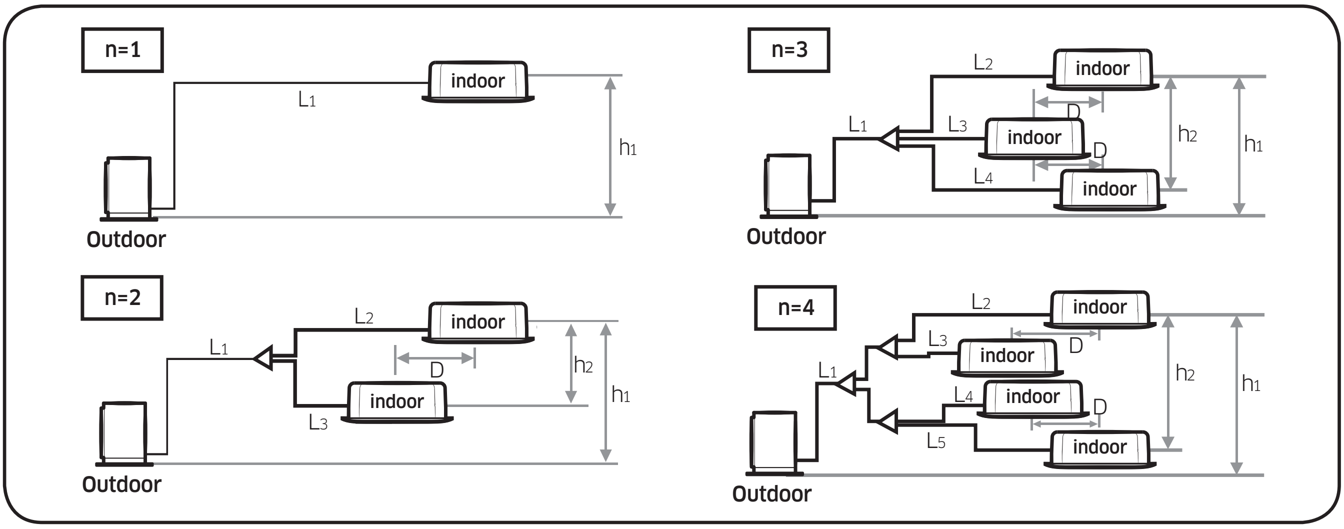


Connecting the refrigerant pipe

Items	Maximum allowable length				
	Single installation				
Applicable outdoor unit models	AC026MXADKH AC035MXADKH	AC052MXADKH AC060MXADKH	AC071MXADKH	AC090MXAD✱H AC100MXAD✱H AC120MXAD✱H	AC140MXAD✱H
Total pipe length (L_1+L_2+L_3)	-	-	-	-	-
Main pipe (L_1)	20m	30m	50m	50m	75m
Max. distance among indoor units (D)	-	-	-	-	-
Max. length after branch	-	-	-	-	-
Max. height difference between outdoor and indoor units (h_1)	15m	20m	30m	30m	30m
Max. height difference among indoor units(h_2)	-	-	-	-	-
Max Pipe length difference among indoor units after branch (L_2-L_3)	-	-	-	-	-

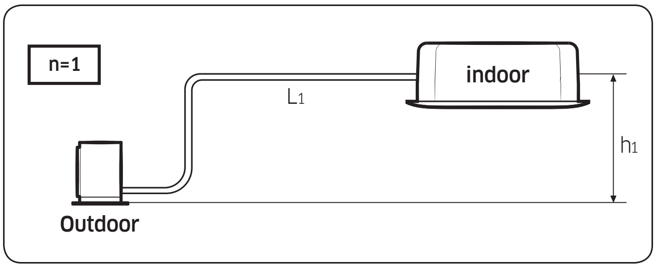
Items	Maximum allowable length		
	DPM installation		
Applicable outdoor unit models	AC071MXADKH	AC100MXAD✱H AC120MXAD✱H	AC140MXAD✱H
Total pipe length (L_1+L_2+L_3)	50m	50m	75m
Main pipe (L_1)	30m	30m	50m
Max. distance among indoor units (D)	10m	10m	10m
Max. length after branch	15m	15m	15m
Max. height difference between outdoor and indoor units (h_1)	±30m	30m	30m
Max. height difference among indoor units(h_2)	±0.5m	0.5m	0.5m
Max Pipe length difference among indoor units after branch (L_2-L_3)	±5m	5m	5m

※ “n” means the number of indoor unit connection of DPM.



※ Use a joint kit that is only for DPM.

Items	Maximum allowable length	
Outdoor unit models	AC090MXADKH AC090MXADNH AC100MXADKH AC100MXADNH AC120MXADKH AC120MXADNH	AC140MXADKH AC140MXADNH
Main pipe (L1)	50 m	75 m
Max. height difference between outdoor and indoor units (h1)	30 m	30 m

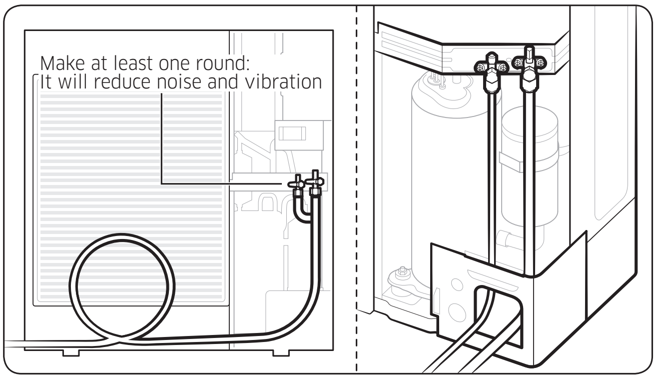


- Temper grade and minimum thickness of the refrigerant pipe

Outer diameter [mm]	Minimum thickness [mm]	Temper grade
ø6.35	0.7	C1220T-O
ø9.52	0.7	
ø12.70	0.8	
ø15.88	1.0	
ø15.88	0.8	C1220T-1/2H OR C1220T-H
ø19.05	0.9	
ø22.23	0.9	

⚠ CAUTION

- Be sure to use C1220T-1/2H (Semi-hard) pipe for more than Ø19.05 mm. If you use C1220T-O (Soft) pipe for Ø19.05 mm, the pipe may be broken, which can result in an injury.



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

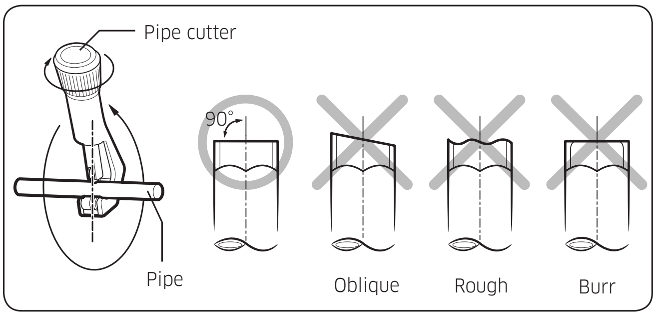
⚠ CAUTION

- After connecting the pipes with knock-out treatment, plug the space around the pipes.
- After connecting the pipes, proceed exactly as directed in the guide to prevent interference with the internal parts.

Cutting and flaring the pipes

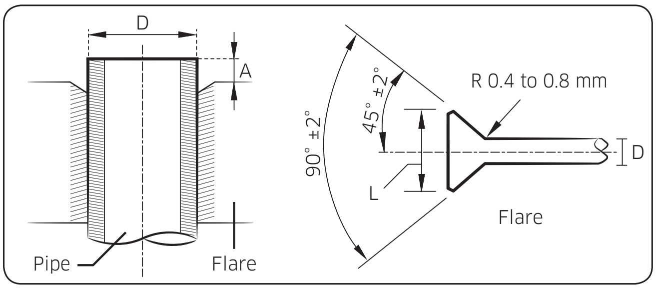
1 Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool, and pipe holder)

2 If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.



3 To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.

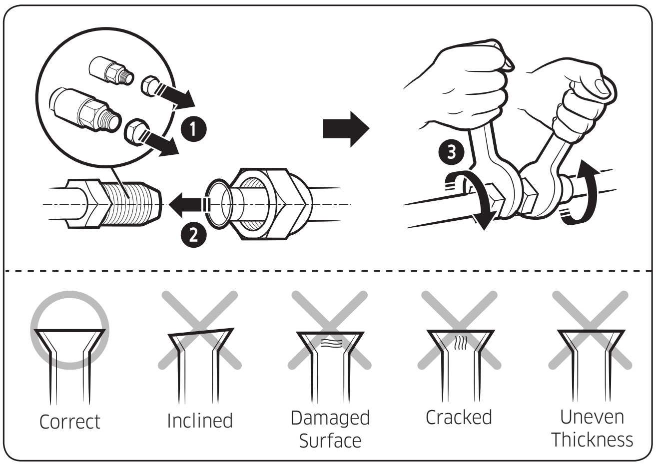
4 Slide a flare nut on to the pipe and modify the flare.



Outer diameter (D)	Depth (A)	Flare dimension (L)
ø6.35 mm	14 to 18	8.7 to 9.1 mm
ø9.52 mm	34 to 42	12.8 to 13.2 mm
ø12.70 mm	49 to 61	16.2 to 16.6 mm
ø15.88 mm	68 to 82	19.3 to 19.7 mm
ø19.05 mm	100 to 120	23.6 to 24.0 mm

- 1 N·m = 10 kgf·cm

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



⚠ CAUTION

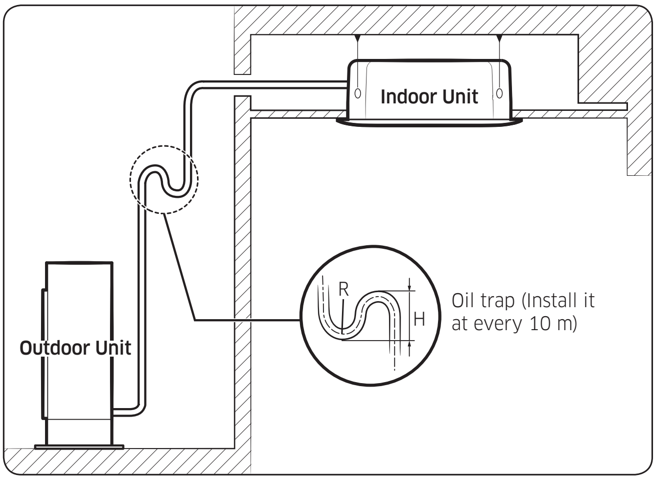
- If the pipes require brazing ensure that OFN(Oxygen Free Nitrogen) is flowing through the system.
- Nitrogen blowing pressure range is 0.02 to 0.05 MPa.

Check the following list and install an oil trap.

- Based on cooling operation, install it on the gas side pipe only.
- Install the oil trap only in between the outdoor unit and the first branch joint and it should be installed at every 10 m.
- Radius of curvature (R) on the oil trap are as follows;

Pipe diameter (D)	12.70	15.88	19.05	22.23	25.40	28.60	31.75
Radius of curvature (R)	25 and over	32 and over	38 and over	41 and over	51 and over	57 and over	60 and over

- Height of the oil trap (H): 4R ≤ H ≤ 6R
- When the indoor unit is installed at a higher place than the outdoor unit



Connecting up and removing air in the circuit

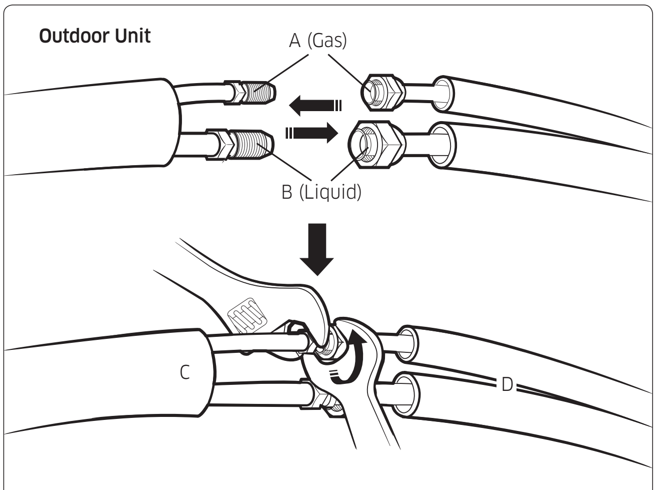
⚠ CAUTION

- When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

The air in the indoor unit and in the pipe must be evacuated. If air remains in the refrigerant pipes, it will affect the compressor either reduce cooling/heating capacity or lead to a malfunction. Refrigerant for air purging is not charged in the outdoor unit. Use Vacuum Pump as shown at the right figure.

1 Connect each assembly pipe to the appropriate valve on the outdoor unit and tighten the flare nut.

2 Referring to the illustration below, tighten the flare nut on section D first manually and then with a torque wrench, applying the following torque.



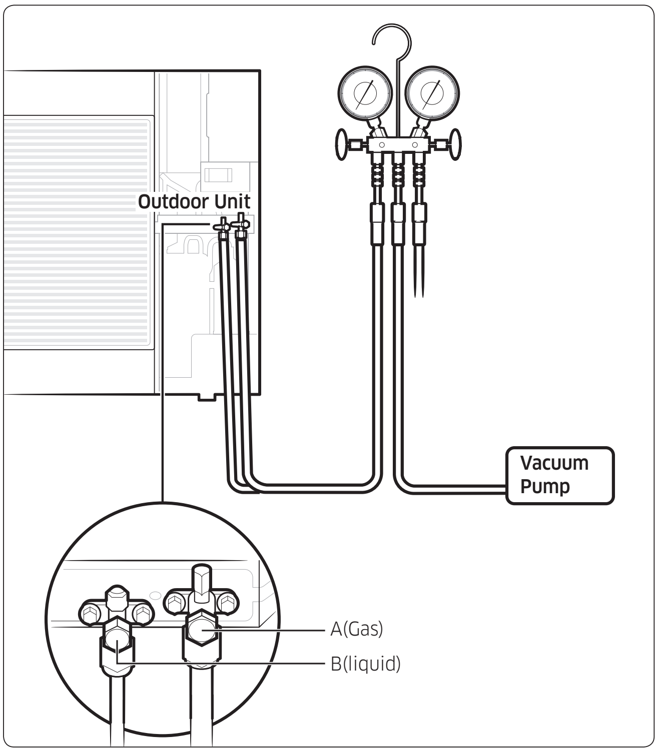
Outer Diameter (D)	Torque (N•m)
ø6.35	14 to 18
ø9.52	34 to 42
ø12.70	49 to 61
ø15.88	68 to 82
ø19.05	100 to 120

3 Connect the charging hose of low pressure side of manifold gauge to the packed valve having a service port as shown at the figure.

⚠ CAUTION

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

4 Open the valve of the low pressure side(A) of manifold gauge anticlockwise.



5 Purge the air from the system using vacuum pump for about 10 minutes.
    - Close the valve of the low pressure side of manifold gauge clockwise.
    - Make sure that pressure gauge shows -0.1 MPa (-76 cmHg) after about 10 minutes. This procedure is very important to avoid a gas leak.
    - Turn off the vacuum pump.
    - Remove the hose of the low pressure side of manifold gauge.

6 Open the stop valve of both liquid and gas sides.

7 Mount the valve stem nuts and the service port cap to the valve, and tighten them at the torque of 183kgf•cm with a torque wrench.

8 Check for gas leakage.
    - At this time, especially check for gas leakage from the 3-way valve's stem nuts(A port), and from the service port cap.

⚠ CAUTION

- Connect the indoor and outdoor units using pipes with flared connections (not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe, (Cu DHP type to ISO 1337 or UNI EN 12735-1), suitable for operating pressures of at least 4200 kPa and for a burst pressure of at least 20700 kPa. Copper pipe for hydro-sanitary applications is completely unsuitable.
- For sizing and limits (height difference, line length, max. bends, refrigerant charge, etc.) see "Connecting refrigerant pipe section"

Adding refrigerant (R-410A)

- The outdoor unit is loaded with sufficient refrigerant for the standard piping. Thus, refrigerant must be added if the piping is lengthened. This operation can only be performed by a qualified refrigeration specialist. To determine the quantity of refrigerant charge, see **Calculating the quantity of refrigerant to add**.

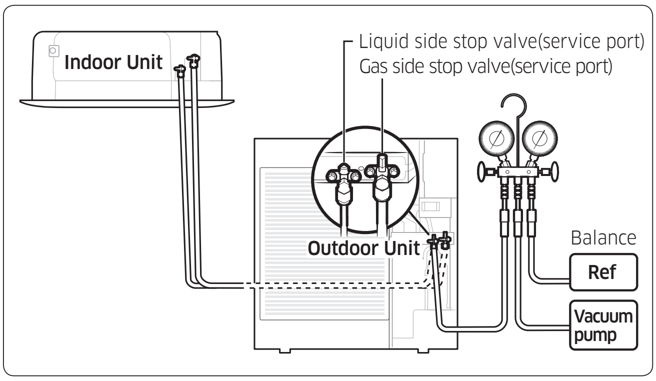
1 Check if the stop valve is closed completely.

2 Charge the refrigerant through the service port of the liquid stop valve.

NOTE

- Do not charge the refrigerant through the service port of the gas stop valve.

3 If you have any difficulty charging the refrigerant as described in the steps above, take the following steps:
    - a Open the liquid stop valve and gas stop valve.
    - b Operate the air conditioner by pressing the K2 key on the outdoor unit PCB.
    - c After about 30 minutes, charge the refrigerant through the service port of the gas stop valve.



Important information regulation regarding the refrigerant used

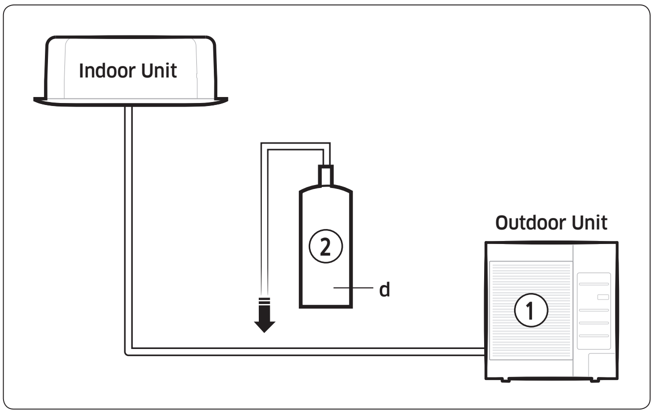
This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

⚠ CAUTION

- Inform user if system contains 5 tCO2e or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation n°517/2014. This activity has to be covered by qualified personnel only.
- In case situation above (5 tCO2e or more of R-410A), installer (or recognized person which has responsibility for final check) has to provide a maintenance book, with all the information recorded according to REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

Please fill in the following with indelible ink on the refrigerant charge label supplied with this product and on this manual.

- ①: The factory refrigerant charge of the product.
- ②: The additional refrigerant amount charged in the field.
- ① + ②: The total refrigerant charge.



Unit	kg	tCO2e
①, a		
②, b		
① + ②, c		

Refrigerant type	GWP value
R-410A	2088

- GWP: Global Warming Potential
- Calculating tCO2e : kg x GWP / 1000

NOTE

a Factory refrigerant charge of the product: see unit name plate

b Additional refrigerant amount charged in the field(Refer to the above information for the quantity of refrigerant replenishment.)

c Total refrigerant charge

d Refrigerant cylinder and manifold for charging

Calculating the quantity of refrigerant to add

The quantity of additional refrigerant is variable according to the installation situation. Thus, make sure the outdoor unit situation before adding refrigerant. This operation can only be performed by a qualified refrigeration specialist.

When installing the outdoor unit only

Model	Interconnection pipe length (m)								
	0 to 5	5 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 75
AC026MXADKH AC035MXADKH	0	0	0						
AC052MXADKH AC060MXADKH	0	+10 g/m over 5 m							
AC071MXADKH		+20 g/m over 50 m							
AC090MXADKH AC090MXADNH AC100MXADKH AC100MXADNH AC120MXADKH AC120MXADNH	0	0	0	0	+50 g/m over 30 m				
AC140MXADKH AC140MXADNH	0	0	0	0	+50 g/m over 30 m				

DPM installation outdoor unit

Model	Diameter of L1, a & b pipe	Installation condition	Amount of additional refrigerant charging
AC071MXADKH	Ø6.35	$L_1 + L_2 + L_3$	$(L_1-5) \times 30[g] + (L_2+L_3) \times 30[g]$
AC100MXAD✱H AC120MXAD✱H	Ø9.52	$L_1 + \ldots + L_{n+1} \leq 50$ m	$L_1+a+b-5) \times 40 [g] + (L_2+\ldots+L_{n+1}) \times 30 [g]$ If $(L_1+a+b) < 5$ m, $(L_2+\ldots+L_{n+1}) \times 30 [g]$
AC140MXAD✱H	Ø9.52	$L_1 + \ldots + L_{n+1} \leq 75$ m	$(L_1+a+b-5) \times 40 [g] + (L_2+\ldots+L_{n+1}) \times 30 [g]$ If $(L_1+a+b) < 5$ m, $(L_2+\ldots+L_{n+1}) \times 30 [g]$

Optional : Installing DPM

DPM allowable Outdoor and indoor unit models

DPM allowable Outdoor and indoor unit models			
Outdoor unit	2 IDUs connection	3 IDUs connection	4 IDUs connection
	Indoor Unit	Indoor Unit	Indoor Unit
AC100MXAD∗H	AC052MN∗∗KH	AC035MN∗∗KH	
AC120MXAD∗H	AC060MN∗∗KH	AC052MN∗∗KH	AC035MN∗∗KH
AC140MXAD∗H	AC071MN∗∗KH	AC052MN∗∗KH	AC035MN∗∗KH

※ Installation of multiple indoor units should consist of units that have the same capacity.

e.g. When you install the AC100MXADKH outdoor unit as DPM combination such as 2 or 3 indoor units connection, only the combination of two AC035MN∗DKH

Space requirements for indoor and outdoor units and piping installation

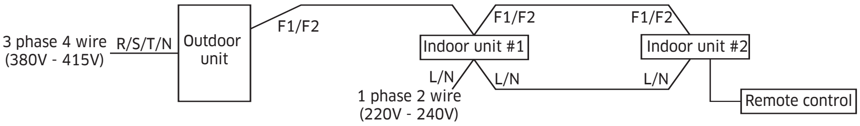
(Refer to page 8~9 installation specification.)

- ▶ Two indoor units should be installed in one area which is not divided by a wall.
- ▶ The distance between two indoor units should be within a straight-line of 10m.
- ▶ After branching, the distance between the piping connected to the two indoor units should be within 1m.
- ▶ The height difference between two units should be within 0.5m.
- ▶ Use the joint KIT that is only for DPM. (Please refer to the table below)

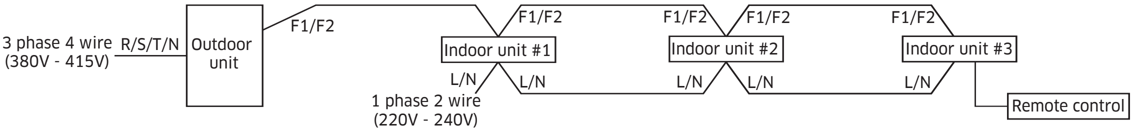
DPM KIT	2-Indoor units connection	3-Indoor units connection	4-Indoor units connection
	MXJ-2D2509K	MXJ-3D2509K	MXJ-4D2509K

Connecting communication line and wired remote controller

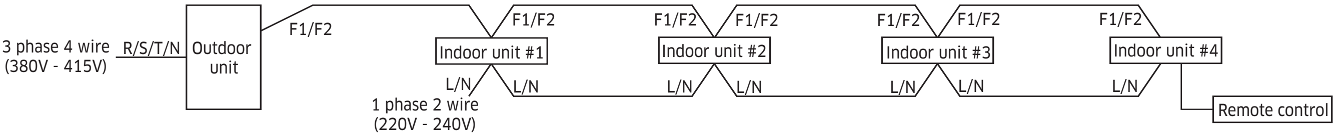
In case of 2 indoor units connection



In case of 3 indoor units connection



In case of 4 indoor units connection



※ The wired remote controller can be used with any of the DPM indoor units.

Operation and specification

- ▶ The two, the three, or the four sets of the indoor units with DPM installation which are controlled by wired and wireless remote controller work equally. (All controls such as ON/OFF, cooling/heating/dehumidification/ventilation, high/ medium/low wind, fixing louver angle/swing are equally applied.)
- ▶ Thermo OFF which stops when indoor temperature reaches set temperature works by the average sensor value of the indoor temperature of the all indoor units.
- ▶ When one of the several indoor units has a problem, they protect operation or stop working.

Instruction for installation and operation

- ▶ You should install the DPM according to the above installation specification and eliminate the factors that give electrical load to the both indoor units when installing and operating. (Heater / window / front door / ventilation / partition that divides space)
- ▶ You should provide sufficient instructions about the operation method and specification features to users and fill in caution phrases on wired remote controller when necessary.
  - <The air-conditioners in this area are special type to be controlled simultaneously.>

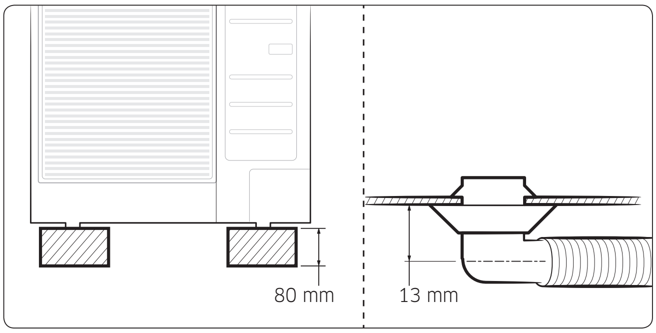
Set up indoor quantity by key switch(K1, K2)

- ▶ Press and hold K1 switch to enter the setting mode on the number of the installed indoor unit : Check “A0” sign on 7-segment
  - Press K2 switch to set the number of the installed indoor unit :
    Ex) If there are two indoor units, press K2 switch twice, and check “A2” sign on 7-segment.
    If there are three indoor units, press K3 switch three times, and check “A3” sign on 7-segment.
    If there are four indoor units, press K4 switch four times, and check “A4” sign on 7-segment.
  - Press K1 switch to complete setting the number of the installed indoor unit : Check “AA” sign on 7-segment.

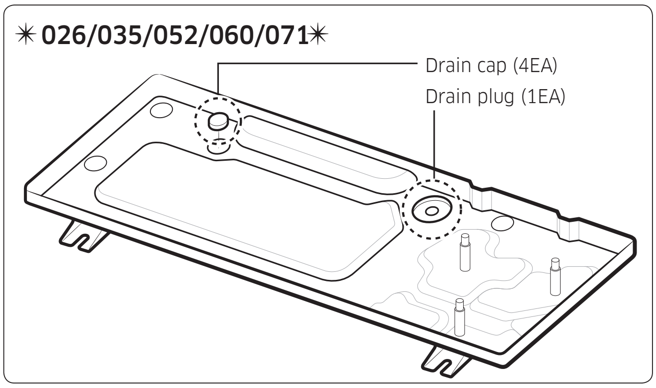
Connecting the drain hose to the outdoor unit

When using the air conditioner in the heating mode, ice may accumulate. During de-icing (defrost operation), the condensed water must be drained off safely. Consequently, you must install a drain hose on the outdoor unit, following the instructions below.

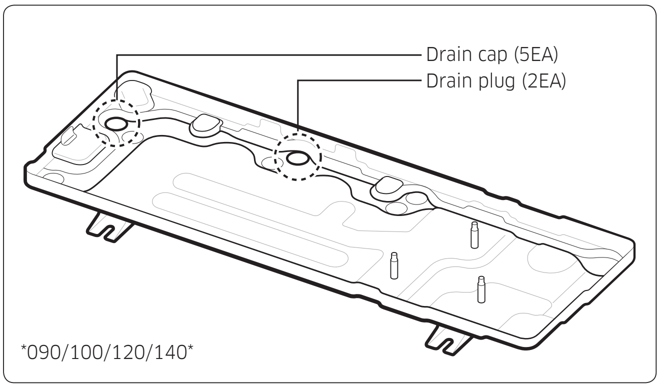
1. Make space more than 80 mm between the bottom of the outdoor unit and the ground for installation of the drain hose, as shown in figure.
2. Insert the drain plug into the hole on the underside of the outdoor unit.
3. Connect the drain hose to the drain plug.
4. Ensure that the drained water runs off correctly and safely.



5. Be sure to plug the rest of drain holes not connected with drain plugs using drain caps.



- When installing the product, make sure that the rack is not placed under the drain hole.
- If the product is installed in a region of heavy snow, allow enough separation distance between the product and the ground.

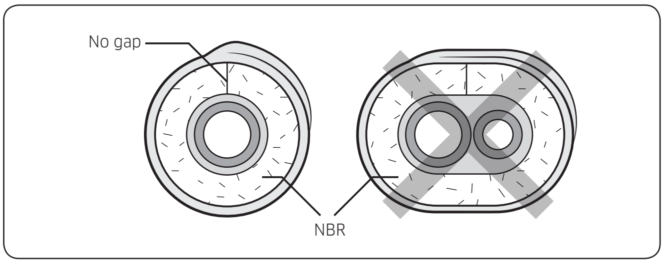


- When installing the product, make sure that the rack is not placed under the drain hole.
- If the product is installed in a region of heavy snow, allow enough separation distance between the product and the ground.

Insulating the refrigerant pipes

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

1 To avoid condensation problems, place an insulator around each refrigerant pipe.



NOTE

- When insulate the pipe, be sure to overlap the insulation.
- The insulation has to be produced in full compliance of European regulation reg. EEC / EU 2037/ 2000 that requires the use of sheaths insulation form without using CFC and HCFC gases for health and the environment.

⚠ CAUTION

- When insulating the pipe, use non-slit insulator.

2 Select the insulation of the refrigerant pipe.

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

Pipe	Pipe size	Insulation Type (Heating/Cooling)		Remarks
		Standard [Less than 30°C, 85%]	High humidity [over 30°C, 85%]	
		EPDM, NBR		
Liquid pipe	Ø6.35~Ø9.52	9 t	9 t	Internal temperature is higher than 120°C
	Ø12.7~Ø19.05	13 t	13 t	
Gas pipe	Ø6.35	13 t	19 t	
	Ø9.52~Ø19.05	19 t	25 t	

- 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.

Checking the earthing

If the power distribution circuit does not have a earthing or the earthing does not comply with specifications, an earthing electrode must be installed. The corresponding accessories are not supplied with the air conditioner.

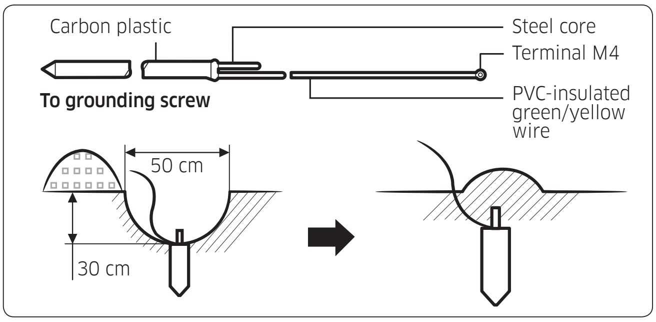
1 Select an earthing electrode that complies with the specifications given in the illustration.

2 Connect the flexible hose to the flexible hose port.

- In damp hard soil rather than loose sandy or gravel soil that has a higher earthing resistance.
- Away from underground structures or facilities, such as gas pipes, water pipes, telephone lines and underground cables.
- At least two metres away from a lightening conductor earthing electrode and its cable.

NOTE

- The earthing wire for the telephone line cannot be used to ground the air conditioner.



3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

4 Install a green/yellow coloured earthing wire:

- If the earthing wire is too short, connect an extension lead in a mechanical way and wrap it with insulating tape (do not bury the connection).
- Secure the earthing wire in position with staples.

NOTE

- If the earthing electrode is installed in an area with heavy traffic, its wire must be connected securely.

5 Carefully check the installation by measuring the earthing resistance with a earth resistance tester. If the resistance is above the required level, drive the electrode deeper into the ground or increase the number of earthing electrodes.

6 Connect the earthing wire to the electrical component box inside of the outdoor unit.

Performing final check and trial operation

1 Check the power supply between the outdoor unit and the auxiliary circuit breaker.

- 1 phase power supply: L, N
- 3 phases power supply: R, S, T, N

2 Check the indoor unit.

a Check that you have connected the power and communication cables correctly. (If the power cable and communication cables one mixed up or connected incorrectly, the PCB will be damaged.)

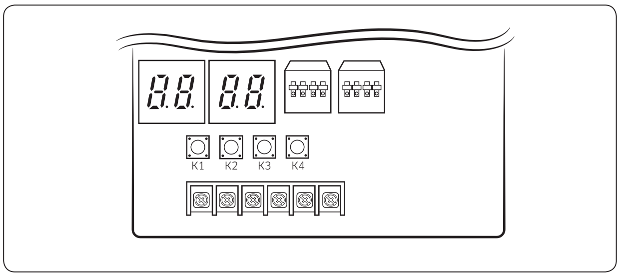
b Check that the thermistor sensor, drain pump/hose, and display are connected correctly.

3 Press K1 or K2 on the outdoor unit PCB to run the test mode and stop.

- Press K1 button → Start Heating test mode → Press K1 button → Stop → Heating test mode 7-seg display: ⊢1
- Press K2 button → Start Cooling test mode → Press K2 button → Stop → Cooling test mode 7-seg display: ⊢2
- Press K1 button twice → Start Defrost test mode → Press K1 button → Stop → Defrost test mode 7-seg display: ⊢3
- Press K2 button twice → Start Inverter Checker mode → Press K2 button → Stop → Inverter Checker mode 7-seg display: ⊢4

  Condition 1: The outdoor temperature is under 10°C

  Condition 2: All the temperature conditions should meet the defrost conditions



4 After 12 minutes of stationary condition check each indoor unit air treatment:

- Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp.: From 10°C to 12°C
- Heating mode (indoor unit check) → Outlet air temp. - Inlet air temp.: From 11°C to 14°C
- In heating mode, the indoor fan motor can remain off to avoid cold air blown into air-conditioned space.

5 How to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode):

- Outdoor unit types A, B, and C: Refer to **Outdoor unit dimensions**.
- Press K3 button over 1 sec to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode).

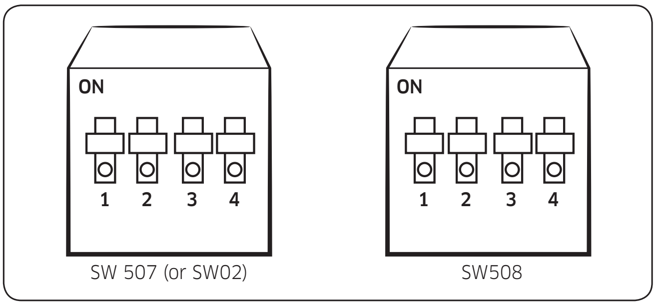
6 View mode: When the K4 switch is pressed, you can see information about our system state as below.

K4 short push	Display contents	SEG1	SEG2	SEG3	SEG4	Unit
1	Order frequency	1	Hundreds digit	Tens digit	Units digit	Hz
2	Current frequency	2	Hundreds digit	Tens digit	Units digit	Hz
3	The number of current indoor units	3	Hundreds digit	Tens digit	Units digit	EA
4	The sensor for outdoor air intake	4	+ / -	Tens digit	Units digit	°C
5	Discharge sensor	5	Hundreds digit	Tens digit	Units digit	°C
6	Eva-Mid sensor	6	+ / -	Tens digit	Units digit	°C
7	Cond sensor	7	+ / -	Tens digit	Units digit	°C
8	Current	8	Tens digit	Units digit	The first place of decimals	A
9	Fan RPM	9	Thousands digit	Hundreds digit	Tens digit	rpm
10	Target discharge temperature	A	Hundreds digit	Tens digit	Units digit	°C
11	EEV	B	Hundreds digit	Tens digit	Units digit	step
12	The capacity sum of indoor units	C	Tens digit	Unit digit	The first place of decimals	kW
13	Protective control	D	0: Cooling 1: Heating	Protective control 0: No Protective control 1: Freezing 2: Non-stop defrosting 3: Over-load 4: Discharge 5: Total electric current	Frequency status 0: Normal 1: Hold 2: Down 3: Up_limit 4: Down_limit	-
14	The temperature of heat radiating plate	E	Hundreds digit	Tens digit	Units digit	-
15	S/W check	F	-	-	-	-

K4 long push	Display contents	SEG1	SEG2	SEG3	SEG4
After short push 1	Inverter micom version	Year (Hex)	Month (Hex)	Date (Tens digit)	Date (Units digit)
After short push 1	E2P version	Year (Hex)	Month (Hex)	Date (Tens digit)	Date (Units digit)

- Long push K4 (Main micom ver.) → short push 1 more (Inv. micom ver.) → short push 1 more (E2P. ver.)

7 DIP switch option



- DIP switch SW 507 (or SW02) option

	On (default)	Off
Switch 1	-	-
Switch 2	Disable snow prevention control	Enable snow prevention control
Switch 3	Silence mode option	
Switch 4		

※ Setting the address manually (high level controller)

a Turn off the air conditioner, press and hold the K2 switch for a while to enter the Option mode. (Initial value: 00AU)

- You cannot enter the Option mode when the air conditioner is running.

b Set the address in SEG3 and SEG4 by pressing the K2 switch shortly.

Option	SEG1	SEG2	SEG3	SEG4	Function
Channel address	0	0	A	U	The address is set automatically.
			00 to 15		The address is set manually. You can set a value from 0 to 15.

c Press and hold the K2 switch for a while to save the address and exit the Option mode. Each segment will flicker for 3 seconds in the current display state. Then if you need to change the address, reset the system, and then repeat all steps again. Press and hold the K1 switch to exit without save.

- When snow prevention mode is in use, eco mode (standby mode) will not work.
- DIP switch (SW508) option

	On (default)	Off
Switch 1	Auto Silence mode	Manual Silence mode
Switch 2	-	-
Switch 3	-	-
Switch 4	-	-

8 Silence Mode DIP switch option

- DIP switch SW 507 (or SW02) option

Switch 3	Switch 4	Operation
On	On	Disable Silence mode
On	Off	Silence mode 1st step
Off	On	Silence mode 2nd step
Off	Off	Silence mode 3rd step

※ If you want to restore the setting to factory default, press and hold the K4 button while you are in the option setting mode.

- If you press and hold the K4 button, setting will be restored to factory default but it doesn't mean that restored setting is saved. Press and hold the K2 button. When the segments shows that tracking mode is in progress, setting will be saved.

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