SAMSUNG

SINGLE Technical Data Book

SINGLE for Europe

(R32, 50Hz, HP)



Model : AC✳✳✳BN✳PKG/EU (Indoor Unit), AC✳✳✳BXAP✳G/EU (Outdoor Unit)

History

Version	Modification	Date	Remark
Ver.1.0	Release Single TDB for Europe	22. 05.03	
Ver.2.0	Updated the Added new line up	22. 06.24	

Features & Benefits

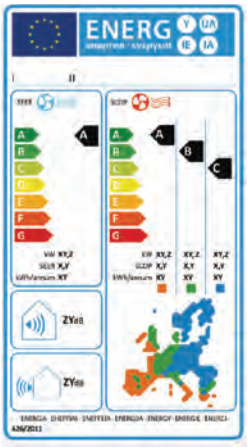
CAC - World-class energy efficiency

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

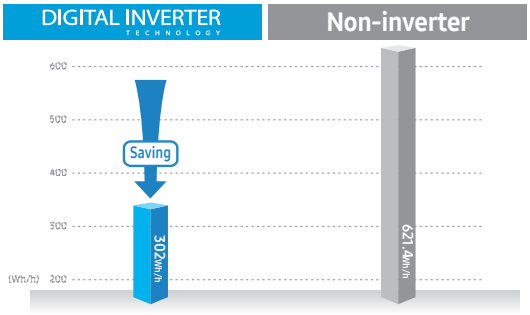
*Table 1: Introduction of revised energy consumption labelling for air conditioners as per EU Directive 2011/626/EU

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 Inefficient units will be gradually withdrawn from the market starting in 2013.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

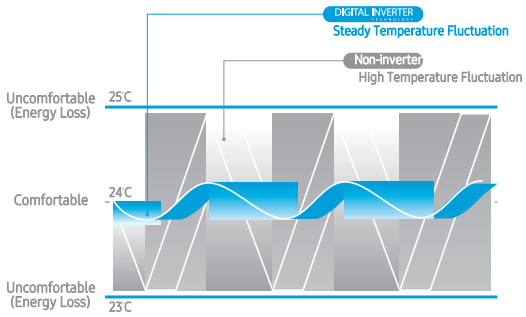
Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With a single unit, CAC Single delivers reliable comfort and control over multiple areas to ensure a pleasant atmosphere in any climate.

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	B	N	N	P	K	G	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

R	2019
T	2020
A	2021
B	2022

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1 Way Cassette
N	WindFree 4Way Cassette (600x600)
4	WingFree 4 Way Cassette, 360 Cassette
L	LSP Duct
M	MSP Duct
C	Ceiling
J	Console
A	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	B	X	A	P	K	G	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC

(2) Capacity

X 1/10 kW (3 digits)

(3) Version

R	2019
T	2020
A	2021
B	2022

(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	7.1	10.0	12.0	14.0
WindFree 4Way Cassette (600x600)				-	-	-	-
WindFree 4Way Cassette	-	-					
360 Cassette	-	-					
MSP Duct	-						
Console			-	-	-	-	-
Ceiling	-	-			-	-	-
Wall Mounted Type						-	-

Outdoor Unit

Model	Capacity (kW)						
	2.6	3.5	5.2	7.1	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
WindFree 4Way Cassette (600x600)	AC071BXAP✳G	AC035BNNPKG x 2	-	-
	AC100BXAP✳G	AC052BNNPKG x 2	AC035BNNPKG x 3	-
	AC120BXAPNG	-	AC052BNNPKG x 3	AC035BNNPKG x 4
	AC140BXAPNG	-	AC052BNNPKG x 3	AC035BNNPKG x 4
WindFree 4Way Cassette	AC100BXAP✳G	AC052BN4PKG x 2	-	-
	AC120BXAPNG	-	AC052BN4PKG x 3	-
	AC140BXAPNG	AC071BN4PKG x 2	AC052BN4PKG x 3	-
360 Cassette	AC100BXAP✳G	AC052BN6PKG x 2		
	AC120BXAPNG		AC052BN6PKG x 3	
	AC140BXAPNG	AC071BN6PKG x 2	AC052BN6PKG x 3	
MSP duct	AC071BXAP✳G	AC035BNMPKG x 2	-	-
	AC100BXAP✳G	AC052BNMPKG x 2	AC035BNMPKG x 3	-
	AC120BXAPNG	-	AC052BNMPKG x 3	AC035BNMPKG x 4
	AC140BXAPNG	AC071BNMPKG x 2	AC052BNMPKG x 3	AC035BNMPKG x 4
Ceiling	AC100BXAP✳G	AC052BNCPKG x 2	-	-
	AC120BXAPNG	-	AC052BNCPKG x 3	-
	AC140BXAPNG	AC071BNCPKG x 2	AC052BNCPKG x 3	-
Wall Mounted Type	AC071BXAP✳G	AC035BNAPKG x 2	-	-
	AC100BXAP✳G	AC052BNAPKG x 2	AC035BNAPKG x 3	-
	AC120BXAPNG	-	AC052BNAPKG x 3	-
	AC140BXAPNG	AC071BNAPKG x 2	AC052BNAPKG x 3	-

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
* Indoo units should be installed in one area which is not divided by a wall	

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WindFree 4Way Cassette (600x600)

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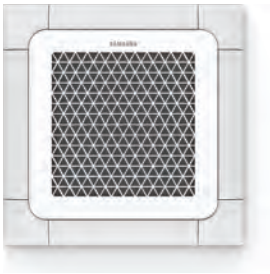
Features & Benefits

WindFree 4Way Cassette (600x600)

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

Samsung's advanced WindFree 4Way Cassette (600x600) builds on the aesthetic appeal and performance of the standard WindFree 4Way Cassette with an enhanced design. The WindFree 4Way Cassette (600x600) 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 WindFree 4Way Cassette (600x600) 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.

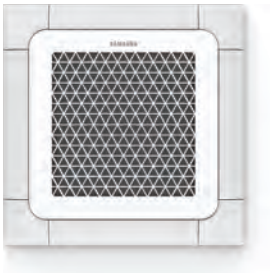
WindFree 4Way Cassette (600x600) - Tasteful design, Compact, Lightweight build

Refine the interior with an elegant, compact design

The enhanced Samsung WindFree 4Way Cassette (600x600) 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.

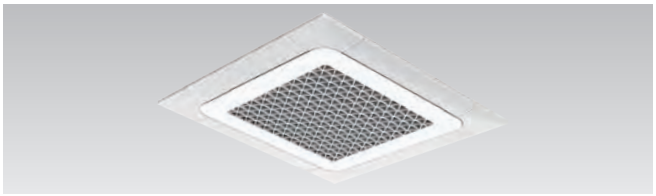
Attractive panel and display

The WindFree 4Way Cassette (600x600) 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.



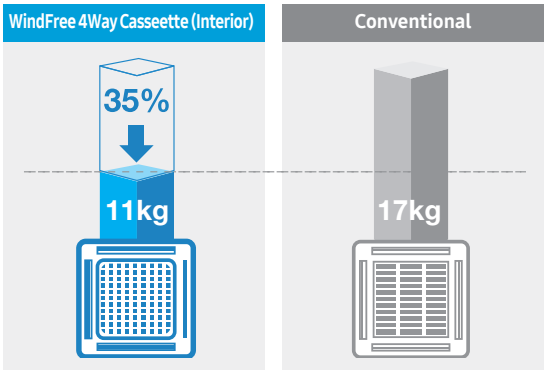
Ultra-compact size

Samsung's WindFree 4Way Cassette (600x600) 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 WindFree 4Way Cassette (600x600) 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

WindFree 4Way Cassette (600x600)

System	Model Name	Indoor Unit				AC026BNNPKG/EU	AC035BNNPKG/EU
		Outdoor Unit				AC026BXAPKG/EU	AC035BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	1.10 / 2.60 / 4.40	1.10 / 3.50 / 5.30
					Btu/h	3,750 / 8,870 / 15,010	3,750 / 11,940 / 18,080
			Heating		kW	0.92 / 3.40 / 4.90	0.94 / 4.00 / 5.70
					Btu/h	3,140 / 11,600 / 16,720	3,210 / 13,650 / 19,450
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.23 / 0.66 / 1.45	0.23 / 0.92 / 2.00
			Heating		kW	0.19 / 0.85 / 2.55	0.20 / 1.05 / 2.70
		Current Input (Min/Std/Max)	Cooling		A	1.5 / 3.2 / 6.4	1.5 / 4.3 / 8.9
			Heating		A	1.2 / 4.0 /11.2	1.3 / 4.9 /11.9
		Current	MCA		A	12.5	12.5
			MFA		A	15.0	15.0
	Efficiency	EER	Cooling		-	3.94	3.80
		COP	Heating		-	4.00	3.81
		SEER (Cooling Energy Grade)			-	7.1	7.2
		SCOP (Heating Energy Grade)			-	4.3	4.3
		Pdesignh			kW	2.1	2.3
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	30	30
			Elevation		m	20	20
			Chargeless		m	20	20
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.20	1.20
					tCO_2e	0.81	0.81
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	8.0 / 7.0 / 6.0	9.2 / 8.0 /6.4
					l/s	133 / 117 / 100	153 / 133 / 107
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		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	H/M/L/(Silent)		dB(A)	31 / 28 / 25	34 / 30 / 25
		Sound Power Level			dB(A)	48	50
	External Dimension	Net Weight			kg	11.6	11.6
		Shipping Weight			kg	14.2	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			-	Plastic (Polypropylene)	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette (600x600)

Indoor Unit	Model Name	Indoor Unit			AC026BNNPKG/EU	AC035BNNPKG/EU
		Outdoor Unit			AC026BXAPKG/EU	AC035BXAPKG/EU
	Panel (1)	Model Name		-	PC4SUFMAN	PC4SUFMAN
		Type		-	Wind-Free Type	Wind-Free Type
		Material		-	HIPS	HIPS
		Color		-	DA White	DA White
		Net Weight		kg	2.7	2.7
		Shipping Weight		kg	3.9	3.9
		Net Dimensions (WxHxD)		mm	620 x 46 x 620	620 x 46 x 620
		Shipping Dimensions (WxHxD)		mm	670 x 120 x 655	670 x 120 x 655
	Panel (2)	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 (3)	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		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	Included	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UB9TA8150FEQ	UB9TA8150FEQ
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.50	1.50
		Oil	Type	-	POE	POE
			Initial charge	cc	450	450
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	40	40
				l/s	667	667
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	45	46
			Heating	dB(A)	45	46
		Sound Power Level		dB(A)	59	61

1. Specification

WindFree 4Way Cassette (600x600)

Outdoor Unit	Model Name	Indoor Unit			AC026BNNPKG/EU	AC035BNNPKG/EU
		Outdoor Unit			AC026BXAPKG/EU	AC035BXAPKG/EU
	External Dimension	Net Weight		kg	43.0	43.0
		Shipping Weight		kg	46.5	46.5
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 742 x 413
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		℃	-20 ~ 52	-20 ~ 52
		Heating		℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

1. Specification

WindFree 4Way Cassette (600x600)

System	Model Name	Indoor Unit			AC052BNNPKG/EU
		Outdoor Unit			AC052BXAPKG/EU
	Mode			-	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.30 / 5.00 / 6.80
				Btu/h	4,440 / 17,060 / 23,200
			Heating	kW	0.96 / 5.50 / 9.30
				Btu/h	3,280 / 18,770 / 31,730
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.26 / 1.38 / 2.40
			Heating	kW	0.23 / 1.50 / 3.40
		Current Input (Min/Std/Max)	Cooling	A	1.7 / 6.3 / 10.5
			Heating	A	1.5 / 6.8 / 15.1
		Current	MCA	A	17.5
			MFA	A	20.0
	Efficiency	EER	Cooling	-	3.62
		COP	Heating	-	3.67
		SEER (Cooling Energy Grade)		-	7.0
		SCOP (Heating Energy Grade)		-	4.3
		Pdesignh		kW	4.0
	Piping Connections	Liquid Pipe		Type	Flare connection
				Φ, ㎜ (inch)	6.35 (1/4)
		Gas Pipe		Type	Flare connection
				Φ, ㎜ (inch)	12.7 (1/2)
		Heat Insulation		-	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5
			Max.	m	50
			Elevation	m	30
			Chargeless	m	20
	Wiring connections	Communication	Min.	㎟	0.75
			Remark	-	F1, F2
	Refrigerant	Type		-	R32
		Factory Charging		kg	1.70
				tCO_2e	1.15
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50
	Heat Exchanger	Type		-	F&T
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Hydrophile
	Fan	Type		-	Turbo
		Quantity		EA	1
		Air Flow Rate	H/M/L	m^3/min	10.5 / 9.5 / 8.5
				l/s	175 / 158 / 142
		External Static Pressure	Min/Std/Max	mmAq	-
				Pa	-
	Fan Motor	Type		-	BLDC
		Output		W x n	65 x 1
	Drain	Drain Pipe		Φ, mm	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)	dB(A)	39 / 34 / 29
		Sound Power Level		dB(A)	56
	External Dimension	Net Weight		kg	11.6
		Shipping Weight		kg	14.2
		Net Dimensions (WxHxD)		mm	575 x 250 x 575
		Shipping Dimensions (WxHxD)		mm	623 x 298 x 653
	Casing	Material		-	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette (600x600)

Indoor Unit	Model Name	Indoor Unit			AC052BNNPKG/EU
		Outdoor Unit			AC052BXAPKG/EU
	Panel (1)	Model Name		-	PC4SUFMAN
		Type		-	Wind-Free Type
		Material		-	HIPS
		Color		-	DA White
		Net Weight		kg	2.7
		Shipping Weight		kg	3.9
		Net Dimensions (WxHxD)		mm	620 x 46 x 620
		Shipping Dimensions (WxHxD)		mm	670 x 120 x 655
	Panel (2)	Model Name		-	PC4SUSMBN
		Type		-	Waffle Type
		Material		-	HIPS
		Color		-	Victory gray
		Net Weight		kg	2.3
		Shipping Weight		kg	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671
	Panel (3)	Model Name		-	PC4SUSMFN
		Type		-	Stripe Type
		Material		-	HIPS
		Color		-	Victory gray
		Net Weight		kg	2.3
		Shipping Weight		kg	3.5
		Net Dimensions (WxHxD)		mm	620 x 45 x 620
		Shipping Dimensions (WxHxD)		mm	661 x 106 x 671
	Control System	Infrared remote control		-	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	Included
		Max. lifting Height / Displacement		mm / Liter/h	750/24
	Additional Accessories	Air Filter		-	Removable / Washable
Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,220~240,50
	Heat Exchanger	Type		-	Fin & Tube
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Green Hydrophile
	Compressor	Model Name			UB9TA9180FEQ
		Type		-	Twin BLDC Rotary
		Output		kW	1.78
		Oil	Type	-	POE
			Initial charge	cc	570
	Fan	Type		-	Propeller
		Discharge direction		-	Side
		Quantity		EA	1
		Air Flow Rate		m^3/min	55
				l/s	917
	Fan Motor	Type		-	BLDC
		Output		W x n	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47
			Heating	dB(A)	48
		Sound Power Level		dB(A)	63

1. Specification

WindFree 4Way Cassette (600x600)

Outdoor Unit	Model Name	Indoor Unit			AC052BNNPKG/EU
		Outdoor Unit			AC052BXAPKG/EU
	External Dimension	Net Weight		kg	50.0
		Shipping Weight		kg	54.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413
	Casing	Material	Body	-	EGI Steel
	Operating Temp. Range	Cooling		℃	-20 ~ 52
		Heating		℃	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

2. Summary Table

WindFree 4Way Cassette (600x600)

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026BNNPKG/EU	11.6	Max.	4.4	4.9	High	8.0	31	48
		Std.	2.6	3.4	Mid	7.0	28	-
		Min.	1.1	0.92	Low	6.0	25	-
AC035BNNPKG/EU	11.6	Max.	5.3	5.7	High	9.2	34	50
		Std.	3.5	4.0	Mid	8.0	30	-
		Min.	1.1	0.94	Low	6.4	25	-
AC052BNNPKG/EU	11.6	Max.	6.8	9.3	High	10.5	39	56
		Std.	5.0	5.5	Mid	9.5	34	-
		Min.	1.3	0.96	Low	8.5	29	-

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				
AC026BNNPKG/EU	AC026BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.5	12.5	12.5	15.0
AC035BNNPKG/EU	AC035BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.5	12.5	12.5	15.0
AC052BNNPKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	1.5	17.5	17.5	20.0

NOTE

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

3. Capacity Table

WindFree 4Way Cassette (600x600)

(1) AC026BNNPKG/EU + AC026BXAPKG/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
-20	3.48	2.73	0.73	3.67	2.82	0.75	3.82	2.90	0.76	3.94	2.99	0.78	4.02	2.96	0.78	4.22	2.93	0.79	4.43	2.88	0.81
21	3.45	2.56	0.75	3.63	2.64	0.76	3.78	2.72	0.78	3.90	2.81	0.79	3.98	2.78	0.80	4.18	2.75	0.81	4.39	2.70	0.82
35	2.30	1.90	0.62	2.42	1.96	0.63	2.52	2.02	0.65	2.60	2.08	0.66	2.65	2.06	0.67	2.78	2.04	0.67	2.92	2.00	0.69
46	2.99	2.44	1.68	3.15	2.52	1.71	3.28	2.60	1.75	3.38	2.68	1.78	3.45	2.65	1.80	3.62	2.62	1.82	3.80	2.57	1.85
52	2.65	2.29	1.49	2.78	2.36	1.52	2.90	2.44	1.55	2.99	2.51	1.58	3.05	2.49	1.60	3.20	2.46	1.62	3.36	2.41	1.65

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
-25	2.68	1.26	2.65	1.24	2.63	1.23	2.60	1.22	2.58	1.21	2.55	1.20
-15	3.67	1.99	3.64	1.97	3.60	1.96	3.56	1.94	3.53	1.92	3.49	1.90
-5	4.34	2.10	4.29	2.08	4.25	2.06	4.21	2.04	4.17	2.02	4.12	2.00
0	4.27	1.80	4.22	1.79	4.18	1.77	4.14	1.75	4.10	1.73	4.06	1.72
7	3.47	0.87	3.43	0.86	3.40	0.85	3.37	0.84	3.33	0.83	3.30	0.82
24	5.48	1.59	5.43	1.57	5.37	1.56	5.32	1.54	5.27	1.52	5.21	1.51

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette (600x600)

(2) AC035BNNPKG/EU + AC035BXAPKG/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
-20	4.69	3.59	1.02	4.94	3.70	1.04	5.14	3.81	1.06	5.30	3.93	1.08	5.41	3.89	1.09	5.68	3.85	1.10	5.96	3.77	1.13
21	4.64	3.36	1.04	4.89	3.47	1.06	5.09	3.57	1.08	5.25	3.69	1.10	5.36	3.65	1.12	5.62	3.61	1.13	5.90	3.54	1.15
35	3.10	2.49	0.87	3.26	2.57	0.88	3.40	2.65	0.90	3.50	2.73	0.92	3.57	2.70	0.93	3.75	2.68	0.94	3.94	2.62	0.96
46	4.03	3.21	2.34	4.24	3.31	2.39	4.41	3.41	2.43	4.55	3.51	2.48	4.64	3.48	2.51	4.87	3.44	2.53	5.12	3.37	2.58
52	3.56	3.01	2.08	3.75	3.11	2.12	3.90	3.20	2.16	4.03	3.30	2.21	4.11	3.27	2.23	4.31	3.23	2.25	4.53	3.17	2.30

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
-25	3.06	1.55	3.03	1.54	3.00	1.52	2.97	1.51	2.94	1.49	2.91	1.48
-15	4.08	2.46	4.04	2.44	4.00	2.42	3.96	2.39	3.92	2.37	3.88	2.34
-5	5.10	2.59	5.05	2.57	5.00	2.54	4.95	2.52	4.90	2.49	4.85	2.47
0	5.02	2.23	4.97	2.21	4.92	2.18	4.87	2.16	4.82	2.14	4.77	2.12
7	4.08	1.07	4.04	1.06	4.00	1.05	3.96	1.04	3.92	1.03	3.88	1.02
24	6.45	1.96	6.38	1.94	6.32	1.92	6.26	1.90	6.19	1.88	6.13	1.86

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette (600x600)

(3) AC052BNNPKG/EU + AC052BXAPKG/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
-20	5.36	3.71	1.17	5.64	3.83	1.19	5.88	3.95	1.22	6.06	4.07	1.24	6.18	4.03	1.25	6.49	3.99	1.27	6.81	3.91	1.29
21	5.31	3.40	1.31	5.59	3.50	1.34	5.82	3.61	1.37	6.00	3.72	1.39	6.12	3.69	1.41	6.43	3.65	1.42	6.75	3.58	1.45
35	4.42	3.33	1.30	4.66	3.43	1.33	4.85	3.54	1.35	5.00	3.65	1.38	5.10	3.61	1.39	5.36	3.58	1.41	5.62	3.51	1.44
46	4.42	3.30	2.62	4.66	3.40	2.68	4.85	3.51	2.73	5.00	3.61	2.79	5.10	3.58	2.82	5.36	3.54	2.84	5.62	3.47	2.90
52	3.32	2.94	1.88	3.49	3.03	1.92	3.64	3.13	1.96	3.75	3.23	2.00	3.83	3.19	2.02	4.02	3.16	2.04	4.22	3.10	2.08

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
-25	3.48	1.99	3.44	1.97	3.41	1.95	3.38	1.93	3.34	1.91	3.31	1.89
-15	5.61	2.88	5.56	2.85	5.50	2.82	5.45	2.79	5.39	2.76	5.34	2.74
-5	6.62	3.43	6.55	3.39	6.49	3.36	6.43	3.33	6.36	3.29	6.30	3.26
0	6.28	2.72	6.22	2.70	6.16	2.67	6.10	2.64	6.04	2.62	5.98	2.59
7	5.61	1.53	5.56	1.52	5.50	1.50	5.45	1.49	5.39	1.47	5.34	1.46
24	7.74	1.99	7.67	1.97	7.59	1.95	7.51	1.93	7.44	1.91	7.36	1.89

NOTE

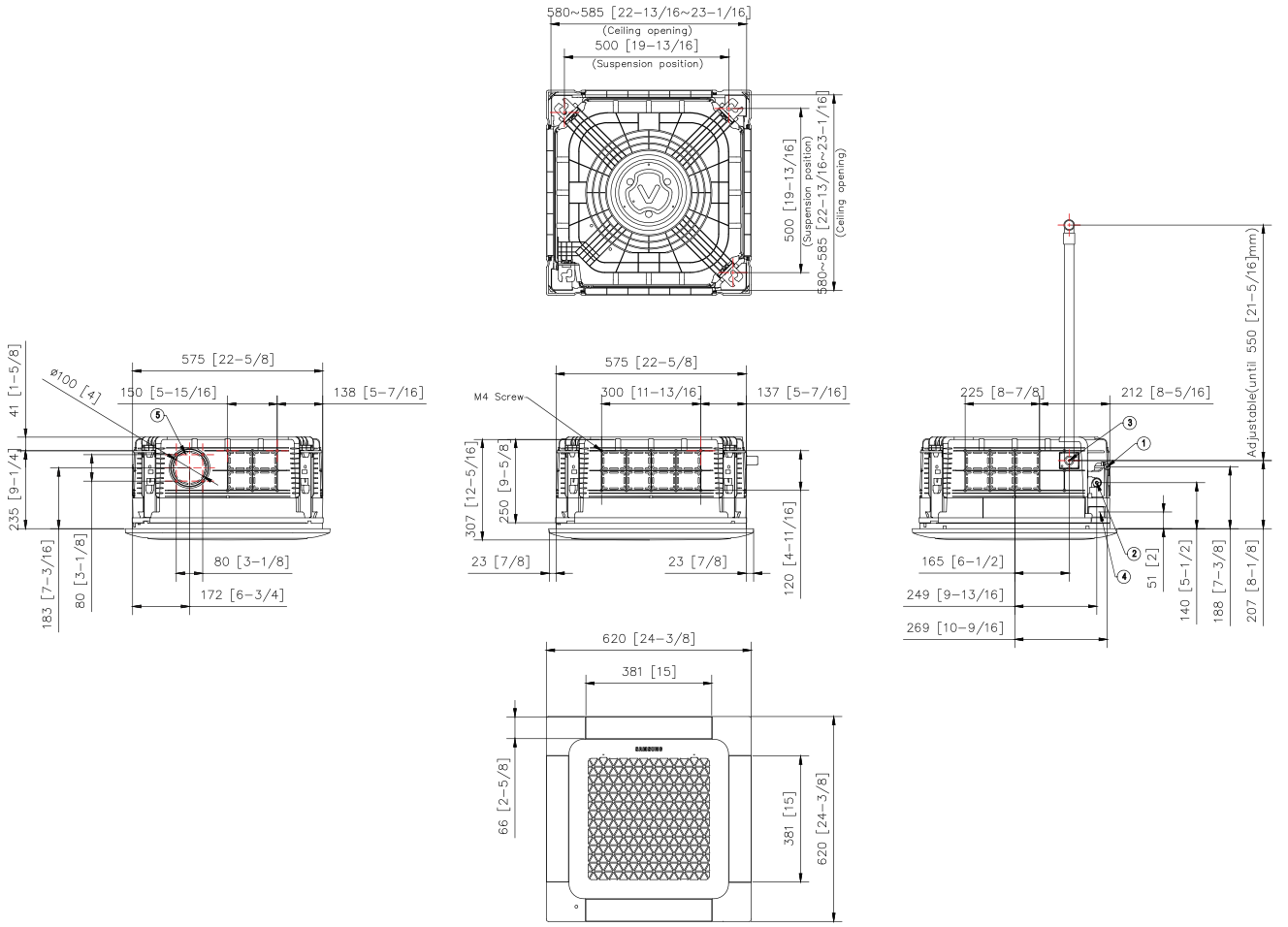
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

WindFree 4Way Cassette (600x600)

AC026/035/052BNNPKG/EU

Units : mm [inches]



No.	Name	Description	
		AC026BNNPKG/EU AC035BNNPKG/EU	AC052BNNPKG/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	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

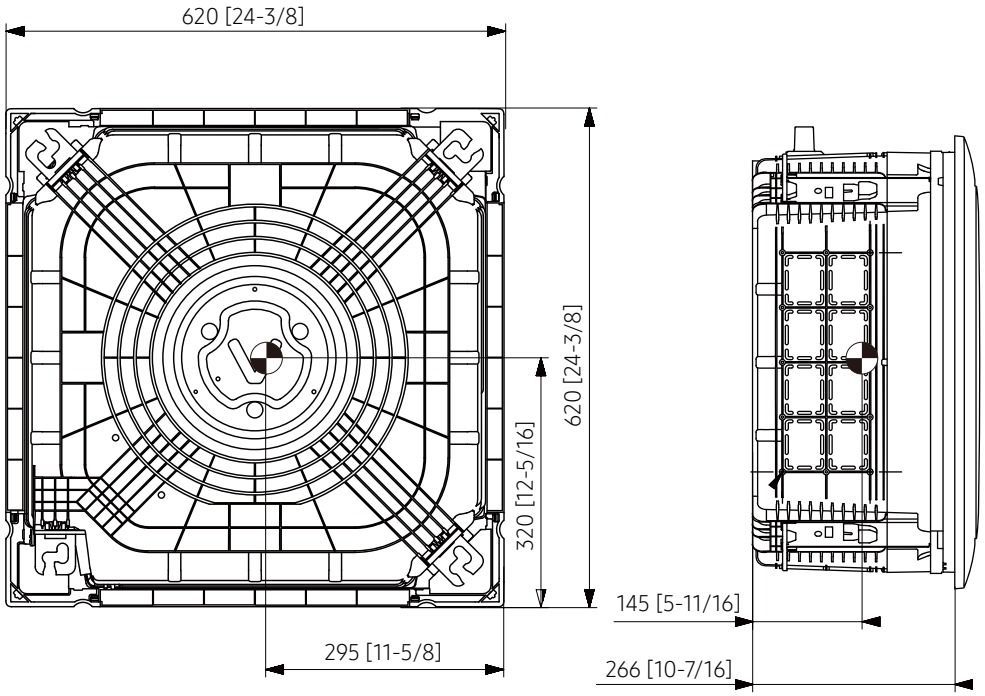
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

WindFree 4Way Cassette (600x600)

AC026/035/052BNNPKG/EU

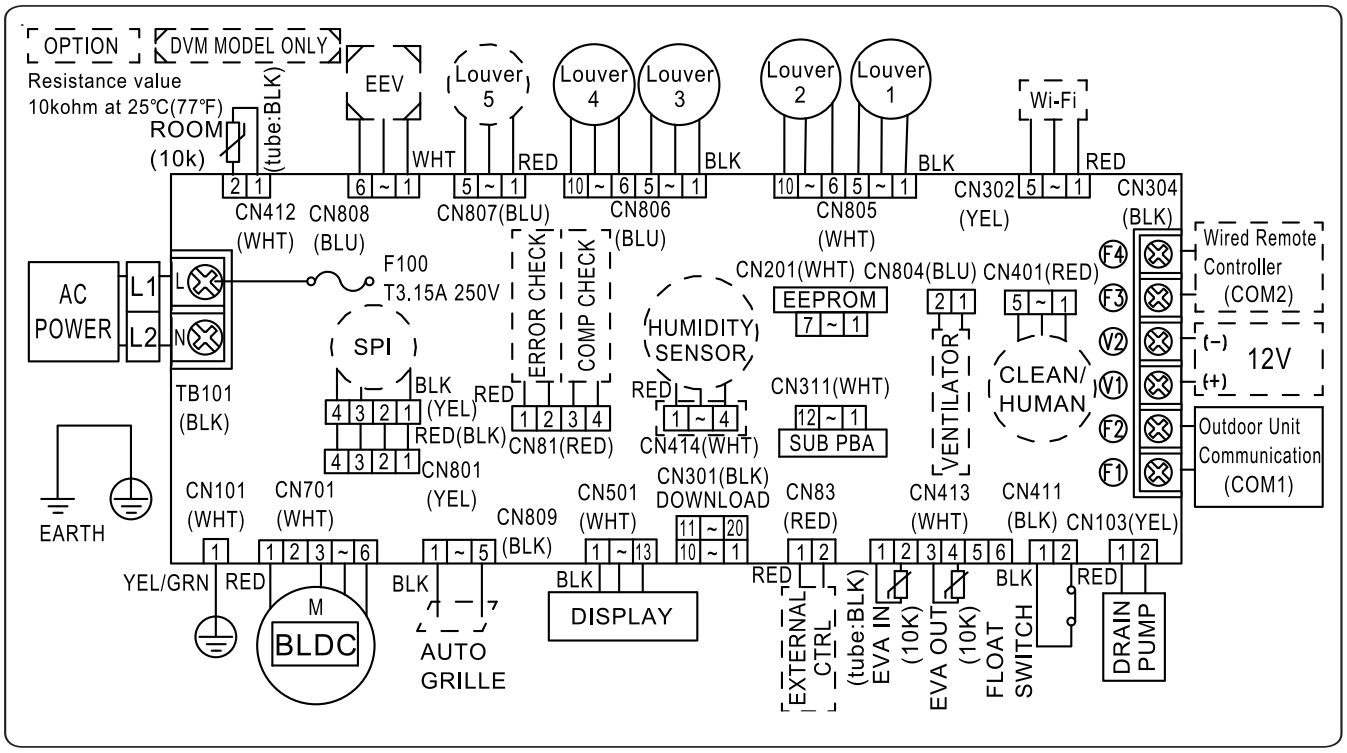
Units : mm [inches]



6. Electrical Wiring Diagram

WindFree 4Way Cassette (600x600)

AC026/035/052BNNPKG/EU



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

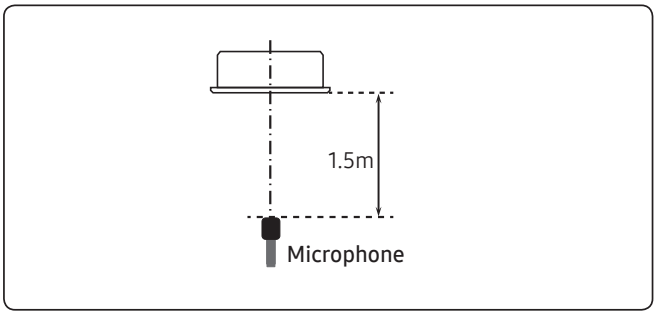
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N : The wire quantity

7. Sound Data

WindFree 4Way Cassette (600x600)

Sound Pressure level

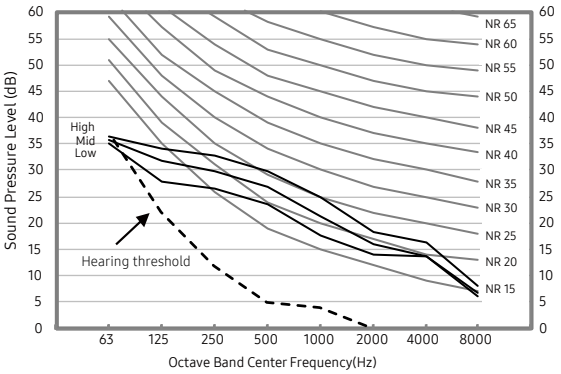
Unit: dB(A)



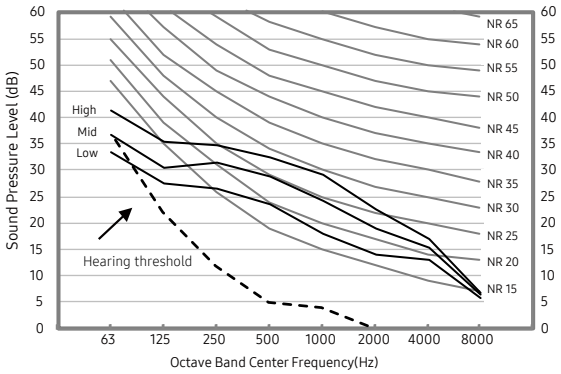
Model	High	Mid	Low
AC026BNNPKG/EU	31	28	25
AC035BNNPKG/EU	34	30	25
AC052BNNPKG/EU	39	34	29

- NR Curve

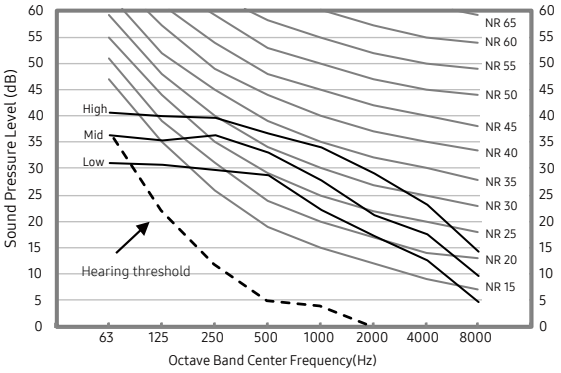
1) AC026BNNPKG/EU



2) AC035BNNPKG/EU



3) AC052BNNPKG/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

WindFree 4Way Cassette (600x600)

Sound Power level

NOTE

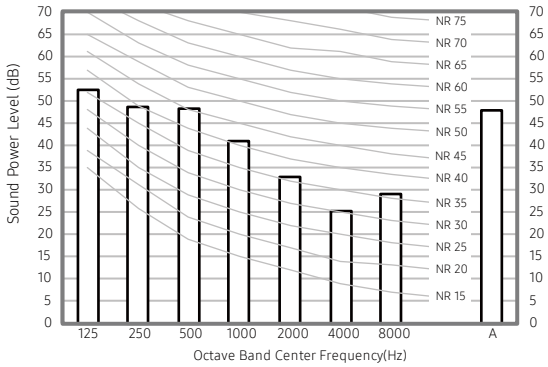
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

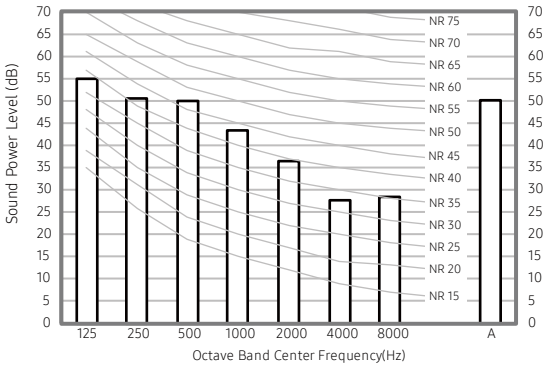
Model	Power
AC026BNNPKG/EU	48
AC035BNNPKG/EU	50
AC052BNNPKG/EU	56

- NR Curve

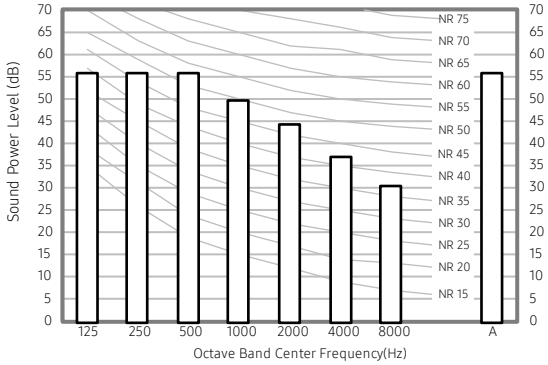
1) AC026BNNPKG/EU



2) AC035BNNPKG/EU



3) AC052BNNPKG/EU

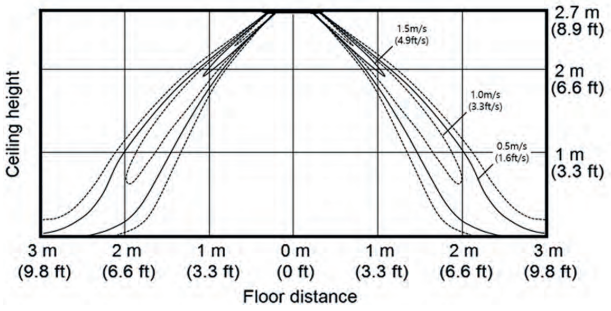


8.Temperature and air flow distribution

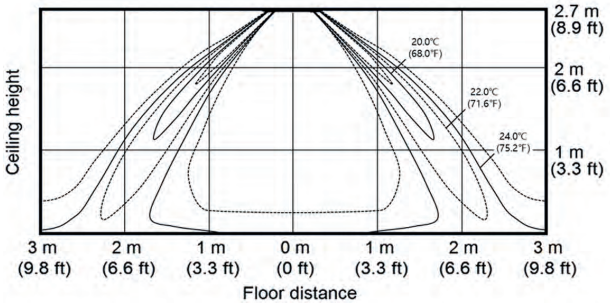
WindFree 4Way Cassette (600x600)

AC026BNNPKG/EU

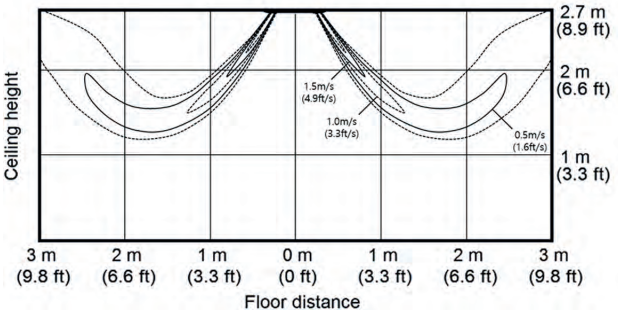
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



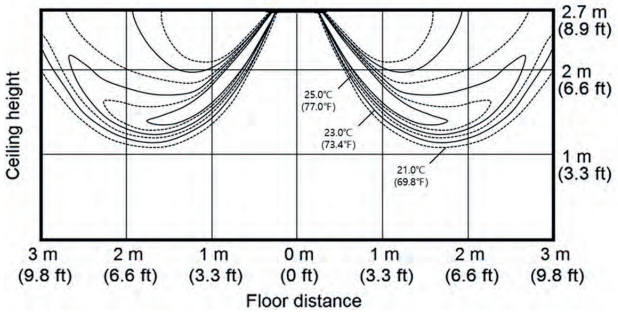
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)

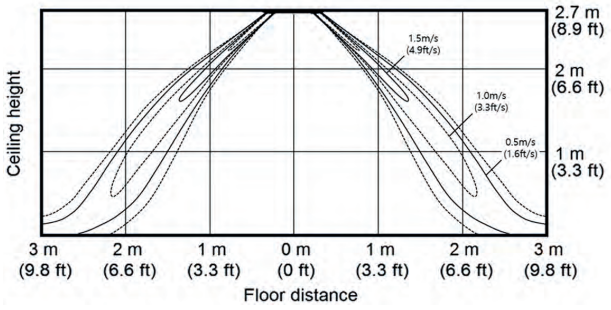


- Heating temperature distribution
  (Discharge angle : 56 degree)

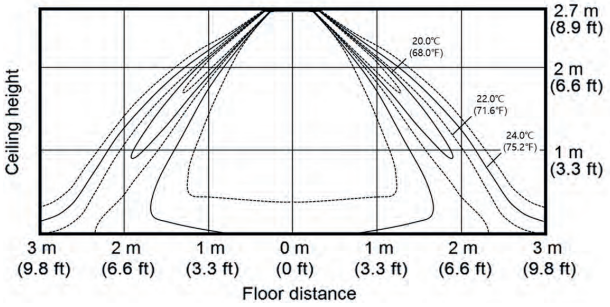


AC035BNNPKG/EU

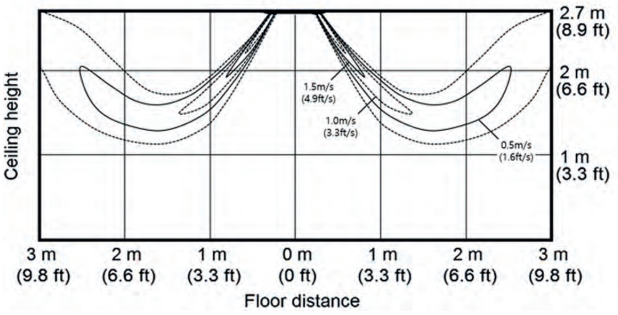
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



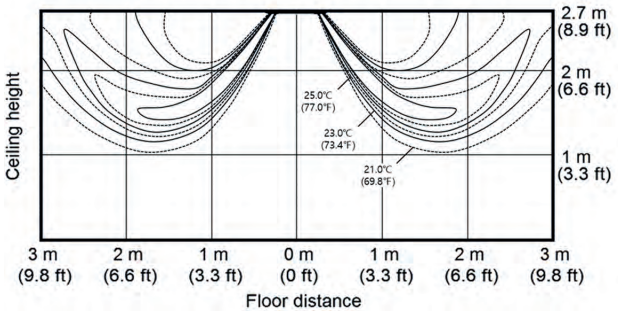
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)



- Heating temperature distribution
  (Discharge angle : 56 degree)

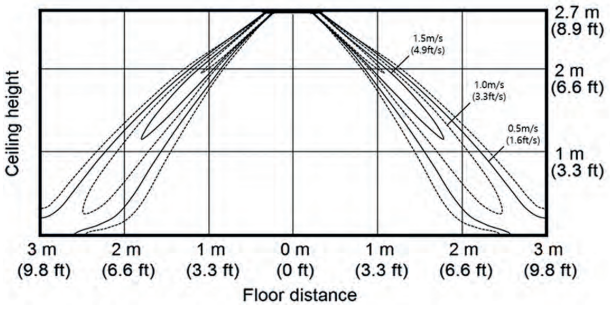


8.Temperature and air flow distribution

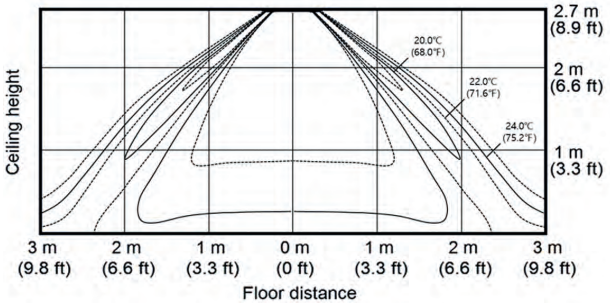
WindFree 4Way Cassette (600x600)

AC052BNNPKG/EU

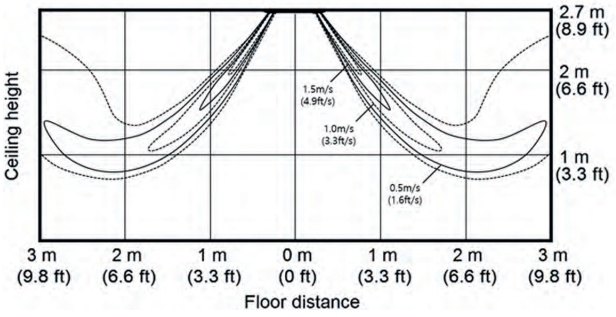
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



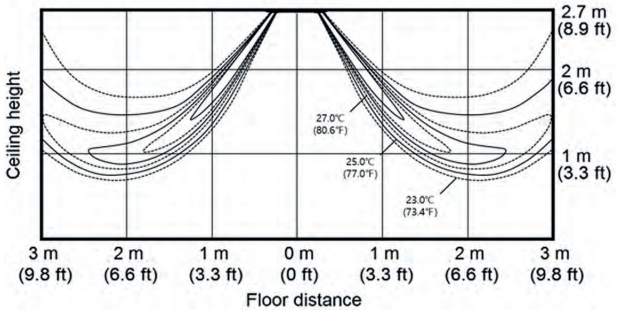
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)



- Heating temperature distribution
  (Discharge angle : 56 degree)



WindFree 4Way Cassette

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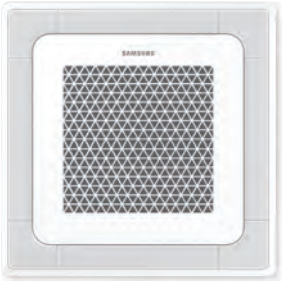
Features & Benefits

WindFree 4Way Cassette

Stage a beautiful yet comfortable environment

With its newly improved design, Wind-Free 4Way Cassette 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 Wind-Free 4Way Cassette 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.

WindFree 4Way Cassette - Stylishly clean design

Aesthetic panel and display

Wind-Free 4Way Cassette offers two different pattern designs forthe panel. The simple display design with rounded corners adds a chic sophistication to the interior.

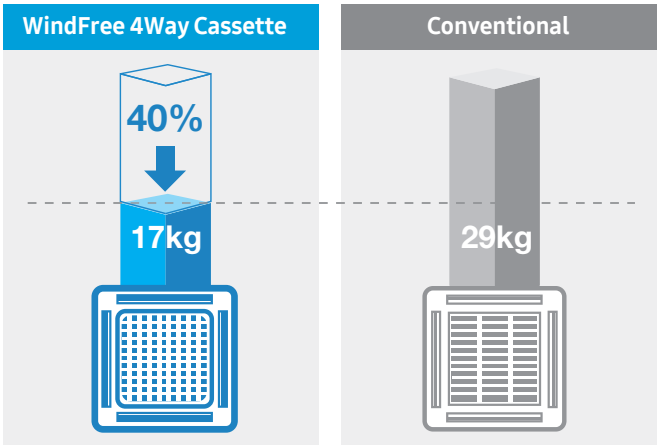


Neat and clean design

The indoor Wind-Free 4Way Cassette 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 Wind-Free 4Way Cassette 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

WindFree 4Way Cassette

System	Model Name	Indoor Unit				AC052BN4PKG/EU	AC071BN4PKG/EU
		Outdoor Unit				AC052BXAPKG/EU	AC071BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	1.10 / 5.00 / 8.00	2.40 / 7.10 / 10.00
					Btu/h	3,750 / 17,060 / 27,300	8,190 / 24,230 / 34,120
			Heating		kW	1.10 / 6.00 / 9.50	2.20 / 8.00 / 13.0
					Btu/h	3,750 / 20,470 / 32,420	7,510 / 27,300 / 44,360
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.24 / 1.16 / 2.90	0.45 / 1.64 / 3.20
			Heating		kW	0.22 / 1.37 / 3.15	0.35 / 1.77 / 4.50
		Current Input (Min/Std/Max)	Cooling		A	1.6 / 5.5 / 12.7	2.4 / 7.8 / 14.2
			Heating		A	1.5 / 6.3 / 14.0	2.5 / 8.4 /19.8
		Current	MCA		A	17.5	21.5
			MFA		A	20.0	25.0
	Efficiency	EER	Cooling		-	4.31	4.33
		COP	Heating		-	4.38	4.52
		SEER (Cooling Energy Grade)			-	8.5	8.5
		SCOP (Heating Energy Grade)			-	4.9	4.8
		Pdesignh			kW	4.1	5.5
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	50	55
			Elevation		m	30	30
			Chargeless		m	20	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.70	2.70
					tCO_2e	1.15	1.82
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	13.5 / 12.7 / 11.8	24.8 / 21.3 / 18.9
					l/s	225 / 212 / 197	413 / 355 / 315
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	65 x 1	97 x 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	33 / 31 / 29	35 / 32 / 29
		Sound Power Level			dB(A)	49	52
	External Dimension	Net Weight			kg	16.0	21.5
		Shipping Weight			kg	19.2	25.0
		Net Dimensions (WxHxD)			mm	840 x 204 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)			mm	898 x 275 x 898	898 x 357 x 898
	Casing	Material			-	Plastic (Polypropylene)	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette

Indoor Unit	Model Name	Indoor Unit		AC052BN4PKG/EU	AC071BN4PKG/EU
		Outdoor Unit		AC052BXAPKG/EU	AC071BXAPKG/EU
	Panel (1)	Model Name	-	PC4NUFMAN	PC4NUFMAN
		Type	-	Wind-Free Type	Wind-Free Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.3	6.3
		Shipping Weight	kg	8.7	8.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000
	Panel (2)	Model Name	-	PC4NUCEAN	PC4NUCEAN
		Type	-	Wind Free-Clean Type	Wind Free-Clean Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	9.4	9.4
		Shipping Weight	kg	12.7	12.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 152 x 1,000	1,010 x 152 x 1,000
	Panel (3)	Model Name	-	PC4NUSKAN	PC4NUSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (4)	Model Name	-	PC4NBSKAN	PC4NBSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Black	Black
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (5)	Model Name	-	PC4NUSKEN	PC4NUSKEN
		Type	-	Stripe Type	Stripe Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Control System	Infrared remote control	-	AR-EH04E	AR-EH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removable / Washable	Removable / Washable

1. Specification

WindFree 4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC052BN4PKG/EU	AC071BN4PKG/EU
		Outdoor Unit			AC052BXAPKG/EU	AC071BXAPKG/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		-	Green Hydrophile	Anti-Corrosion
	Compressor	Model Name			UB9TA9180FEQ	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.78	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	570	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	55	72
				l/s	917	1,200
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	48	49
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	50.0	75.0
		Shipping Weight		kg	54.0	80.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413	995 x 1,096 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

WindFree 4Way Cassette

System	Model Name	Indoor Unit				AC071BN4PKG/EU	AC100BN4PKG/EU
		Outdoor Unit				AC071BXAPNG/EU	AC100BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	2.40 / 7.10 / 10.00	3.80 / 10.00 / 13.30
					Btu/h	8,190 / 24,230 / 34,120	12,960 / 34,120 / 45,380
			Heating		kW	2.20 / 8.00 / 13.00	2.80 / 11.20 / 20.00
					Btu/h	7,510 / 27,300 / 44,360	9,550 / 38,210 / 68,240
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.45 / 1.64 / 3.20	0.70 / 2.35 / 3.60
			Heating		kW	0.35 / 1.77 / 4.50	0.56 / 2.52 / 6.40
		Current Input (Min/Std/Max)	Cooling		A	1.0 / 2.9 / 5.2	3.8 / 10.8 / 16.0
			Heating		A	0.8 / 3.1 / 7.2	2.9 / 11.4 / 27.9
		Current	MCA		A	17.6	29.5
			MFA		A	17.6	35.0
	Efficiency	EER	Cooling		-	4.33	4.26
		COP	Heating		-	4.52	4.44
		SEER (Cooling Energy Grade)			-	8.5	8.0
		SCOP (Heating Energy Grade)			-	4.8	4.8
		Pdesignh			kW	5.5	8.5
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	55	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	2.70	3.50
					tCO_2e	1.82	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	24.8 / 21.3 / 18.9	34.0 / 28.0 / 22.0
					l/s	413 / 355 / 315	567 / 467 / 367
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		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	H/M/L/(Silent)		dB(A)	35 / 32 / 29	44 / 39 / 33
		Sound Power Level			dB(A)	52	61
	External Dimension	Net Weight			kg	21.5	21.5
		Shipping Weight			kg	25.0	25.0
		Net Dimensions (WxHxD)			mm	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)			mm	898 x 357 x 898	898 x 357 x 898
	Casing	Material			-	Plastic (Polypropylene)	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette

Indoor Unit	Model Name	Indoor Unit		AC071BN4PKG/EU	AC100BN4PKG/EU
		Outdoor Unit		AC071BXAPNG/EU	AC100BXAPKG/EU
	Panel (1)	Model Name	-	PC4NUFMAN	PC4NUFMAN
		Type	-	Wind-Free Type	Wind-Free Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.3	6.3
		Shipping Weight	kg	8.7	8.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000
	Panel (2)	Model Name	-	PC4NUCEAN	PC4NUCEAN
		Type	-	Wind Free-Clean Type	Wind Free-Clean Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	9.4	9.4
		Shipping Weight	kg	12.7	12.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 152 x 1,000	1010 x 152 x 1000
	Panel (3)	Model Name	-	PC4NUSKAN	PC4NUSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (4)	Model Name	-	PC4NBSKAN	PC4NBSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Black	Black
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (5)	Model Name	-	PC4NUSKEN	PC4NUSKEN
		Type	-	Stripe Type	Stripe Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Control System	Infrared remote control	-	AR-KH04E	AR-EH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removable / Washable	Removalble / Washable

1. Specification

WindFree 4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC071BN4PKG/EU	AC100BN4PKG/EU
		Outdoor Unit			AC071BXAPNG/EU	AC100BXAPKG/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			UB8TN8300FJU	ATQ420D1UNT1
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	2.91	3.44
		Oil	Type	-	POE	POE
			Initial charge	cc	1,200	1,500
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	72	125
				l/s	1,200	2,083
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	49	50
		Sound Power Level		dB(A)	64	66
	External Dimension	Net Weight		kg	74.0	100.0
		Shipping Weight		kg	79.0	110.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

WindFree 4Way Cassette

System	Model Name	Indoor Unit			AC100BN4PKG/EU	AC120BN4PKG/EU
		Outdoor Unit			AC100BXAPNG/EU	AC120BXAPNG/EU
	Mode			-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	3.80 / 10.00 / 13.30	3.80 / 12.10 / 14.50
				Btu/h	12,960 / 34,120 / 45,380	12,960 / 41,280 / 49,470
			Heating	kW	2.80 / 11.20 / 20.00	2.80 / 13.20 / 22.50
				Btu/h	9,550 / 38,210 / 68,240	9,550 / 45,040 / 76,770
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.70 / 2.35 / 3.60	0.70 / 2.83 / 4.30
			Heating	kW	0.56 / 2.52 / 6.40	0.56 / 3.20 / 7.95
		Current Input (Min/Std/Max)	Cooling	A	1.4 / 4.1 / 5.8	1.4 / 4.9 / 6.7
			Heating	A	1.1 / 4.3 / 9.4	1.1 / 5.4 / 11.7
		Current	MCA	A	17.6	17.6
			MFA	A	17.6	17.6
	Efficiency	EER	Cooling	-	4.26	4.28
		COP	Heating	-	4.44	4.13
		SEER (Cooling Energy Grade)		-	8.0	8.0
		SCOP (Heating Energy Grade)		-	4.8	4.7
		Pdesignh		kW	8.5	9.5
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5	5
			Max.	m	85	85
			Elevation	m	30	30
			Chargeless	m	30	30
	Wiring connections	Communication	Min.	㎟	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	3.50	3.50
				tCO_2e	2.36	2.36
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Turbo	Turbo
		Quantity		EA	1	1
		Air Flow Rate	H/M/L	m^3/min	34.0 / 28.0 / 22.0	35.2 / 29.2 / 23.2
				l/s	567 / 467 / 367	587 / 487 / 387
		External Static Pressure	Min/Std/Max	mmAq	-	-
				Pa	-	-
	Fan Motor	Type		-	BLDC	BLDC
		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	H/M/L/(Silent)	dB(A)	44 / 39 / 33	45 / 40 / 35
		Sound Power Level		dB(A)	61	61
	External Dimension	Net Weight		kg	21.5	21.5
		Shipping Weight		kg	25.0	25.0
		Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898
	Casing	Material		-	Plastic (Polypropylene)	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette

Indoor Unit	Model Name	Indoor Unit		AC100BN4PKG/EU	AC120BN4PKG/EU
		Outdoor Unit		AC100BXAPNG/EU	AC120BXAPNG/EU
	Panel (1)	Model Name	-	PC4NUFMAN	PC4NUFMAN
		Type	-	Wind-Free Type	Wind-Free Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.3	6.3
		Shipping Weight	kg	8.7	8.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000
	Panel (2)	Model Name	-	PC4NUCEAN	PC4NUCEAN
		Type	-	Wind Free-Clean Type	Wind Free-Clean Type
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	9.4	9.4
		Shipping Weight	kg	12.7	12.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 152 x 1,000	1,010 x 152 x 1,000
	Panel (3)	Model Name	-	PC4NUSKAN	PC4NUSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (4)	Model Name	-	PC4NBSKAN	PC4NBSKAN
		Type	-	Waffle Type	Waffle Type
		Material	-	HIPS	HIPS
		Color	-	Black	Black
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Panel (5)	Model Name	-	PC4NUSKEN	PC4NUSKEN
		Type	-	Stripe Type	Stripe Type
		Material	-	HIPS	HIPS
		Color	-	Victory gray	Victory gray
		Net Weight	kg	5.9	5.9
		Shipping Weight	kg	8.0	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005
	Control System	Infrared remote control	-	AR-EH04E	AR-EH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removalble / Washable	Removalble / Washable

1. Specification

WindFree 4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC100BN4PKG/EU	AC120BN4PKG/EU
		Outdoor Unit			AC100BXAPNG/EU	AC120BXAPNG/EU
	Power Supply			Ø, #, V, Hz	3,4,380~415,50	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	2.91	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	1,200	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m³/min	125	125
				l/s	2,083	2,083
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	49
			Heating	dB(A)	50	52
		Sound Power Level		dB(A)	66	69
	External Dimension	Net Weight		kg	100.0	100.0
		Shipping Weight		kg	110.0	110.0
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		℃	-20 ~ 52	-20 ~ 52
		Heating		℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

WindFree 4Way Cassette

System	Model Name	Indoor Unit			AC140BN4PKG/EU
		Outdoor Unit			AC140BXAPNG/EU
	Mode			-	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	4.10 / 13.40 / 17.10
				Btu/h	13,980 / 45,720 / 58,340
			Heating	kW	2.80 / 15.50 / 22.80
				Btu/h	9,550 / 52,880 / 77,790
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.72 / 3.30 / 5.00
			Heating	kW	0.56 / 3.90 / 8.10
		Current Input (Min/Std/Max)	Cooling	A	1.7 / 5.2 / 7.9
			Heating	A	1.1 / 6.1 / 11.9
		Current	MCA	A	17.6
			MFA	A	17.6
	Efficiency	EER	Cooling	-	4.06
		COP	Heating	-	3.97
		SEER (Cooling Energy Grade)		-	8.0
		SCOP (Heating Energy Grade)		-	4.7
		Pdesignh		kW	9.5
	Piping Connections	Liquid Pipe		Type	Flare connection
				Φ, ㎜ (inch)	9.52 (3/8)
		Gas Pipe		Type	Flare connection
				Φ, ㎜ (inch)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5
			Max.	m	85
			Elevation	m	30
			Chargeless	m	30
	Wiring connections	Communication	Min.	㎟	0.75
			Remark	-	F1, F2
	Refrigerant	Type		-	R32
		Factory Charging		kg	3.50
				tCO_2e	2.36
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50
	Heat Exchanger	Type		-	F&T
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Green Hydrophile
	Fan	Type		-	Turbo
		Quantity		EA	1
		Air Flow Rate	H/M/L	m^3/min	35.2 / 29.2 / 24.4
				l/s	587 / 487 / 407
		External Static Pressure	Min/Std/Max	mmAq	-
				Pa	-
	Fan Motor	Type		-	BLDC
		Output		W x n	97 x 1
	Drain	Drain Pipe		Φ, mm	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)	dB(A)	45 / 41 / 37
		Sound Power Level		dB(A)	61
	External Dimension	Net Weight		kg	21.5
		Shipping Weight		kg	25.0
		Net Dimensions (WxHxD)		mm	840 x 288 x 840
		Shipping Dimensions (WxHxD)		mm	898 x 357 x 898
	Casing	Material		-	Plastic (Polypropylene)

1. Specification

WindFree 4Way Cassette

Indoor Unit	Model Name	Indoor Unit		AC140BN4PKG/EU
		Outdoor Unit		AC140BXAPNG/EU
	Panel (1)	Model Name	-	PC4NUFMAN
		Type	-	Wind-Free Type
		Material	-	HIPS
		Color	-	DA White
		Net Weight	kg	6.3
		Shipping Weight	kg	8.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 117 x 1,000
	Panel (2)	Model Name	-	PC4NUCEAN
		Type	-	Wind Free-Clean Type
		Material	-	HIPS
		Color	-	DA White
		Net Weight	kg	9.4
		Shipping Weight	kg	12.7
		Net Dimensions (WxHxD)	mm	950 x 48 x 950
		Shipping Dimensions (WxHxD)	mm	1,010 x 152 x 1,000
	Panel (3)	Model Name	-	PC4NUSKAN
		Type	-	Waffle Type
		Material	-	HIPS
		Color	-	Victory gray
		Net Weight	kg	5.9
		Shipping Weight	kg	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005
	Panel (4)	Model Name	-	PC4NBSKAN
		Type	-	Waffle Type
		Material	-	HIPS
		Color	-	Black
		Net Weight	kg	5.9
		Shipping Weight	kg	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005
	Panel (5)	Model Name	-	PC4NUSKEN
		Type	-	Stripe Type
		Material	-	HIPS
		Color	-	Victory gray
		Net Weight	kg	5.9
		Shipping Weight	kg	8.0
		Net Dimensions (WxHxD)	mm	950 x 45 x 950
		Shipping Dimensions (WxHxD)	mm	1,005 x 100 x 1,005
	Control System	Infrared remote control	-	AR-EH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24
	Additional Accessories	Air Filter	-	Removalble / Washable

1. Specification

WindFree 4Way Cassette

Outdoor Unit	Model Name	Indoor Unit			AC140BN4PKG/EU
		Outdoor Unit			AC140BXAPNG/EU
	Power Supply			Ø, #, V, Hz	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU
		Type		-	Twin BLDC Rotary
		Output		kW	2.91
		Oil	Type	-	POE
			Initial charge	cc	1,200
	Fan	Type		-	Propeller
		Discharge direction		-	Side
		Quantity		EA	1
		Air Flow Rate		m³/min	125
				l/s	2,083
	Fan Motor	Type		-	BLDC
		Output		W x n	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	50
			Heating	dB(A)	52
		Sound Power Level		dB(A)	70
	External Dimension	Net Weight		kg	100.0
		Shipping Weight		kg	110.0
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52
		Heating		°C	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

2. Summary Table

WindFree 4Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052BN4PKG/EU	16.0	Max.	8.0	9.5	High	13.5	33	49
		Std.	5.0	6.0	Mid	12.7	31	-
		Min.	1.1	1.1	Low	11.8	29	-
AC071BN4PKG/EU	21.5	Max.	10.0	13.0	High	24.8	35	52
		Std.	7.1	8.0	Mid	21.3	32	-
		Min.	2.4	2.2	Low	18.9	29	-
AC100BN4PKG/EU	21.5	Max.	13.3	20.0	High	34.0	44	61
		Std.	10.0	11.2	Mid	28.0	39	-
		Min.	3.8	2.8	Low	22.0	33	-
AC120BN4PKG/EU	21.5	Max.	14.5	22.5	High	35.2	45	61
		Std.	12.1	13.2	Mid	29.2	40	-
		Min.	3.8	2.8	Low	23.2	35	-
AC140BN4PKG/EU	21.5	Max.	17.1	22.8	High	35.2	45	61
		Std.	13.4	15.5	Mid	29.2	41	-
		Min.	4.1	2.8	Low	24.4	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				
AC052BN4PKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	1.5	17.5	17.5	20.0
AC071BN4PKG/EU	AC071BXAPKG/EU	50	220 to 240	198	264	20.0	20.0	1.5	21.5	21.5	25.0
AC071BN4PKG/EU	AC071BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC100BN4PKG/EU	AC100BXAPKG/EU	50	220 to 240	198	264	28.0	28.0	1.5	29.5	29.5	35.0
AC100BN4PKG/EU	AC100BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC120BN4PKG/EU	AC120BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC140BN4PKG/EU	AC140BXAPNG/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

WindFree 4Way Cassette

(1) AC052BN4PKG/EU + AC052BXAPKG/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
-20	5.90	4.37	1.02	6.21	4.50	1.04	6.47	4.64	1.06	6.67	4.78	1.08	6.80	4.74	1.09	7.14	4.69	1.11	7.50	4.59	1.13
21	5.84	3.99	1.15	6.15	4.12	1.17	6.40	4.24	1.19	6.60	4.38	1.22	6.73	4.33	1.23	7.07	4.29	1.24	7.42	4.20	1.27
35	4.42	3.56	1.09	4.66	3.67	1.11	4.85	3.78	1.14	5.00	3.90	1.16	5.10	3.86	1.17	5.36	3.82	1.18	5.62	3.75	1.21
46	4.51	3.27	2.35	4.75	3.37	2.40	4.95	3.47	2.44	5.10	3.58	2.49	5.20	3.54	2.52	5.46	3.51	2.54	5.74	3.44	2.59
52	3.54	3.47	1.58	3.72	3.58	1.62	3.88	3.69	1.65	4.00	3.80	1.68	4.08	3.76	1.70	4.28	3.72	1.72	4.50	3.65	1.75

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
-25	3.55	1.68	3.51	1.66	3.48	1.64	3.45	1.63	3.41	1.61	3.38	1.60
-15	6.12	2.63	6.06	2.60	6.00	2.58	5.94	2.55	5.88	2.52	5.82	2.50
-5	7.53	2.86	7.45	2.84	7.38	2.81	7.31	2.78	7.23	2.75	7.16	2.73
0	7.47	2.45	7.39	2.42	7.32	2.40	7.25	2.37	7.17	2.35	7.10	2.33
7	6.12	1.40	6.06	1.38	6.00	1.37	5.94	1.36	5.88	1.34	5.82	1.33
24	10.10	2.31	10.00	2.28	9.90	2.26	9.80	2.24	9.70	2.22	9.61	2.19

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(2) AC071BN4PKG/EU + AC071BXAPKG/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
-20	8.12	6.77	1.37	8.55	6.98	1.40	8.90	7.20	1.43	9.18	7.42	1.46	9.36	7.35	1.47	9.83	7.27	1.49	10.32	7.13	1.52
21	8.04	6.06	1.56	8.46	6.25	1.59	8.82	6.44	1.62	9.09	6.64	1.66	9.27	6.58	1.67	9.73	6.51	1.69	10.22	6.38	1.72
35	6.28	5.57	1.54	6.61	5.75	1.58	6.89	5.92	1.61	7.10	6.11	1.64	7.24	6.04	1.66	7.60	5.98	1.67	7.98	5.86	1.71
46	6.28	5.52	2.81	6.61	5.69	2.87	6.89	5.86	2.93	7.10	6.04	2.98	7.24	5.98	3.01	7.60	5.92	3.04	7.98	5.81	3.11
52	4.40	4.52	2.32	4.63	4.66	2.36	4.82	4.81	2.41	4.97	4.96	2.46	5.07	4.91	2.48	5.32	4.86	2.51	5.59	4.76	2.56

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
-25	5.16	2.80	5.11	2.77	5.06	2.74	5.01	2.72	4.96	2.69	4.91	2.66
-15	9.38	4.55	9.29	4.51	9.20	4.46	9.11	4.42	9.02	4.37	8.93	4.33
-5	12.08	5.42	11.96	5.36	11.84	5.31	11.72	5.26	11.60	5.20	11.49	5.15
0	10.61	3.54	10.50	3.50	10.40	3.47	10.30	3.43	10.19	3.40	10.09	3.37
7	8.16	1.81	8.08	1.79	8.00	1.77	7.92	1.75	7.84	1.73	7.76	1.72
24	11.26	2.49	11.15	2.47	11.04	2.44	10.93	2.42	10.82	2.39	10.71	2.37

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(3) AC071BN4PKG/EU + AC071BXAPNG/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
-20	8.12	6.77	1.37	8.55	6.98	1.40	8.90	7.20	1.43	9.18	7.42	1.46	9.36	7.35	1.47	9.83	7.27	1.49	10.32	7.13	1.52
21	8.04	6.06	1.56	8.46	6.25	1.59	8.82	6.44	1.62	9.09	6.64	1.66	9.27	6.58	1.67	9.73	6.51	1.69	10.22	6.38	1.72
35	6.28	5.57	1.54	6.61	5.75	1.58	6.89	5.92	1.61	7.10	6.11	1.64	7.24	6.04	1.66	7.60	5.98	1.67	7.98	5.86	1.71
46	6.28	5.52	2.81	6.61	5.69	2.87	6.89	5.86	2.93	7.10	6.04	2.98	7.24	5.98	3.01	7.60	5.92	3.04	7.98	5.81	3.11
52	4.40	4.52	2.32	4.63	4.66	2.36	4.82	4.81	2.41	4.97	4.96	2.46	5.07	4.91	2.48	5.32	4.86	2.51	5.59	4.76	2.56

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
-25	5.16	2.80	5.11	2.77	5.06	2.74	5.01	2.72	4.96	2.69	4.91	2.66
-15	9.38	4.55	9.29	4.51	9.20	4.46	9.11	4.42	9.02	4.37	8.93	4.33
-5	12.08	5.42	11.96	5.36	11.84	5.31	11.72	5.26	11.60	5.20	11.49	5.15
0	10.61	3.54	10.50	3.50	10.40	3.47	10.30	3.43	10.19	3.40	10.09	3.37
7	8.16	1.81	8.08	1.79	8.00	1.77	7.92	1.75	7.84	1.73	7.76	1.72
24	11.26	2.49	11.15	2.47	11.04	2.44	10.93	2.42	10.82	2.39	10.71	2.37

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(4) AC100BN4PKG/EU + AC100BXAPKG/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
-20	10.56	8.30	2.07	11.11	8.56	2.11	11.58	8.82	2.16	11.93	9.09	2.20	12.17	9.00	2.22	12.78	8.91	2.24	13.42	8.73	2.29
21	10.35	8.14	2.13	10.90	8.39	2.18	11.35	8.65	2.22	11.70	8.91	2.27	11.93	8.83	2.29	12.53	8.74	2.31	13.16	8.56	2.36
35	8.85	7.32	2.21	9.31	7.55	2.26	9.70	7.78	2.30	10.00	8.02	2.35	10.20	7.94	2.37	10.71	7.86	2.40	11.25	7.70	2.44
46	8.05	6.73	2.88	8.47	6.94	2.93	8.83	7.15	2.99	9.10	7.37	3.06	9.28	7.30	3.09	9.75	7.22	3.12	10.23	7.08	3.18
52	6.55	5.92	2.03	6.89	6.11	2.08	7.18	6.30	2.12	7.40	6.49	2.16	7.55	6.42	2.18	7.93	6.36	2.21	8.32	6.23	2.25

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
-25	9.28	3.60	9.19	3.56	9.10	3.53	9.01	3.49	8.92	3.46	8.83	3.42
-15	13.26	4.45	13.13	4.40	13.00	4.36	12.87	4.32	12.74	4.27	12.61	4.23
-5	14.05	4.76	13.91	4.71	13.78	4.66	13.64	4.62	13.50	4.57	13.37	4.52
0	13.37	3.98	13.24	3.95	13.10	3.91	12.97	3.87	12.84	3.83	12.71	3.79
7	11.43	2.57	11.31	2.55	11.20	2.52	11.09	2.49	10.98	2.47	10.87	2.45
24	15.54	2.83	15.38	2.80	15.23	2.77	15.08	2.74	14.93	2.72	14.78	2.69

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(5) AC100BN4PKG/EU + AC100BXAPNG/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
-20	10.56	8.30	2.07	11.11	8.56	2.11	11.58	8.82	2.16	11.93	9.09	2.20	12.17	9.00	2.22	12.78	8.91	2.24	13.42	8.73	2.29
21	10.35	8.14	2.13	10.90	8.39	2.18	11.35	8.65	2.22	11.70	8.91	2.27	11.93	8.83	2.29	12.53	8.74	2.31	13.16	8.56	2.36
35	8.85	7.32	2.21	9.31	7.55	2.26	9.70	7.78	2.30	10.00	8.02	2.35	10.20	7.94	2.37	10.71	7.86	2.40	11.25	7.70	2.44
46	8.05	6.73	2.88	8.47	6.94	2.93	8.83	7.15	2.99	9.10	7.37	3.06	9.28	7.30	3.09	9.75	7.22	3.12	10.23	7.08	3.18
52	6.55	5.92	2.03	6.89	6.11	2.08	7.18	6.30	2.12	7.40	6.49	2.16	7.55	6.42	2.18	7.93	6.36	2.21	8.32	6.23	2.25

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
-25	9.28	3.60	9.19	3.56	9.10	3.53	9.01	3.49	8.92	3.46	8.83	3.42
-15	13.26	4.45	13.13	4.40	13.00	4.36	12.87	4.32	12.74	4.27	12.61	4.23
-5	14.05	4.76	13.91	4.71	13.78	4.66	13.64	4.62	13.50	4.57	13.37	4.52
0	13.37	3.98	13.24	3.95	13.10	3.91	12.97	3.87	12.84	3.83	12.71	3.79
7	11.43	2.57	11.31	2.55	11.20	2.52	11.09	2.49	10.98	2.47	10.87	2.45
24	15.54	2.83	15.38	2.80	15.23	2.77	15.08	2.74	14.93	2.72	14.78	2.69

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(6) AC120BN4PKG/EU + AC120BXAPNG/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
-20	12.77	9.78	2.49	13.45	10.08	2.54	14.01	10.39	2.60	14.44	10.71	2.65	14.73	10.61	2.68	15.47	10.50	2.70	16.24	10.29	2.76
21	12.52	9.59	2.57	13.18	9.88	2.62	13.73	10.19	2.68	14.16	10.50	2.73	14.44	10.40	2.76	15.16	10.29	2.79	15.92	10.09	2.84
35	10.70	8.62	2.66	11.27	8.89	2.72	11.74	9.17	2.77	12.10	9.45	2.83	12.34	9.36	2.86	12.96	9.26	2.89	13.61	9.08	2.94
46	9.74	7.93	3.46	10.25	8.17	3.53	10.68	8.43	3.61	11.01	8.69	3.68	11.23	8.60	3.72	11.79	8.51	3.75	12.38	8.34	3.83
52	7.06	6.39	2.45	7.44	6.59	2.50	7.75	6.79	2.55	7.99	7.00	2.60	8.15	6.93	2.63	8.55	6.86	2.66	8.98	6.73	2.71

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
-25	10.00	4.57	9.90	4.52	9.80	4.48	9.70	4.44	9.60	4.39	9.51	4.35
-15	14.28	5.65	14.14	5.59	14.00	5.54	13.86	5.48	13.72	5.43	13.58	5.37
-5	16.56	6.04	16.40	5.98	16.24	5.92	16.07	5.86	15.91	5.80	15.75	5.74
0	15.75	5.06	15.60	5.01	15.44	4.96	15.29	4.91	15.14	4.86	14.99	4.81
7	13.47	3.26	13.33	3.23	13.20	3.20	13.07	3.17	12.94	3.14	12.81	3.10
24	18.31	3.59	18.13	3.56	17.95	3.52	17.77	3.48	17.59	3.45	17.42	3.42

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

WindFree 4Way Cassette

(7) AC140BN4PKG/EU + AC140BXAPNG/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
-20	14.15	10.23	2.91	14.89	10.55	2.97	15.51	10.88	3.03	15.99	11.21	3.09	16.31	11.10	3.12	17.13	10.99	3.15	17.98	10.77	3.21
21	13.87	10.03	3.00	14.60	10.34	3.06	15.21	10.66	3.12	15.68	10.99	3.18	15.99	10.88	3.22	16.79	10.77	3.25	17.63	10.56	3.31
35	11.85	9.03	3.11	12.48	9.30	3.17	13.00	9.59	3.23	13.40	9.89	3.30	13.67	9.79	3.33	14.35	9.69	3.37	15.07	9.50	3.43
46	10.79	8.30	4.04	11.36	8.55	4.12	11.83	8.82	4.20	12.19	9.09	4.29	12.44	9.00	4.33	13.06	8.91	4.38	13.71	8.73	4.46
52	7.82	7.08	2.86	8.24	7.30	2.92	8.58	7.52	2.98	8.84	7.76	3.04	9.02	7.68	3.07	9.47	7.60	3.10	9.95	7.45	3.16

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
-25	10.35	5.57	10.25	5.51	10.15	5.46	10.05	5.41	9.95	5.35	9.85	5.30
-15	14.79	6.88	14.65	6.81	14.50	6.75	14.36	6.68	14.21	6.61	14.07	6.55
-5	19.45	7.36	19.26	7.29	19.07	7.22	18.87	7.14	18.69	7.07	18.50	7.00
0	18.50	6.17	18.32	6.11	18.14	6.05	17.95	5.98	17.77	5.92	17.60	5.87
7	15.81	3.98	15.66	3.94	15.50	3.90	15.35	3.86	15.19	3.82	15.04	3.78
24	21.50	4.38	21.29	4.33	21.08	4.29	20.87	4.25	20.66	4.20	20.45	4.16

NOTE

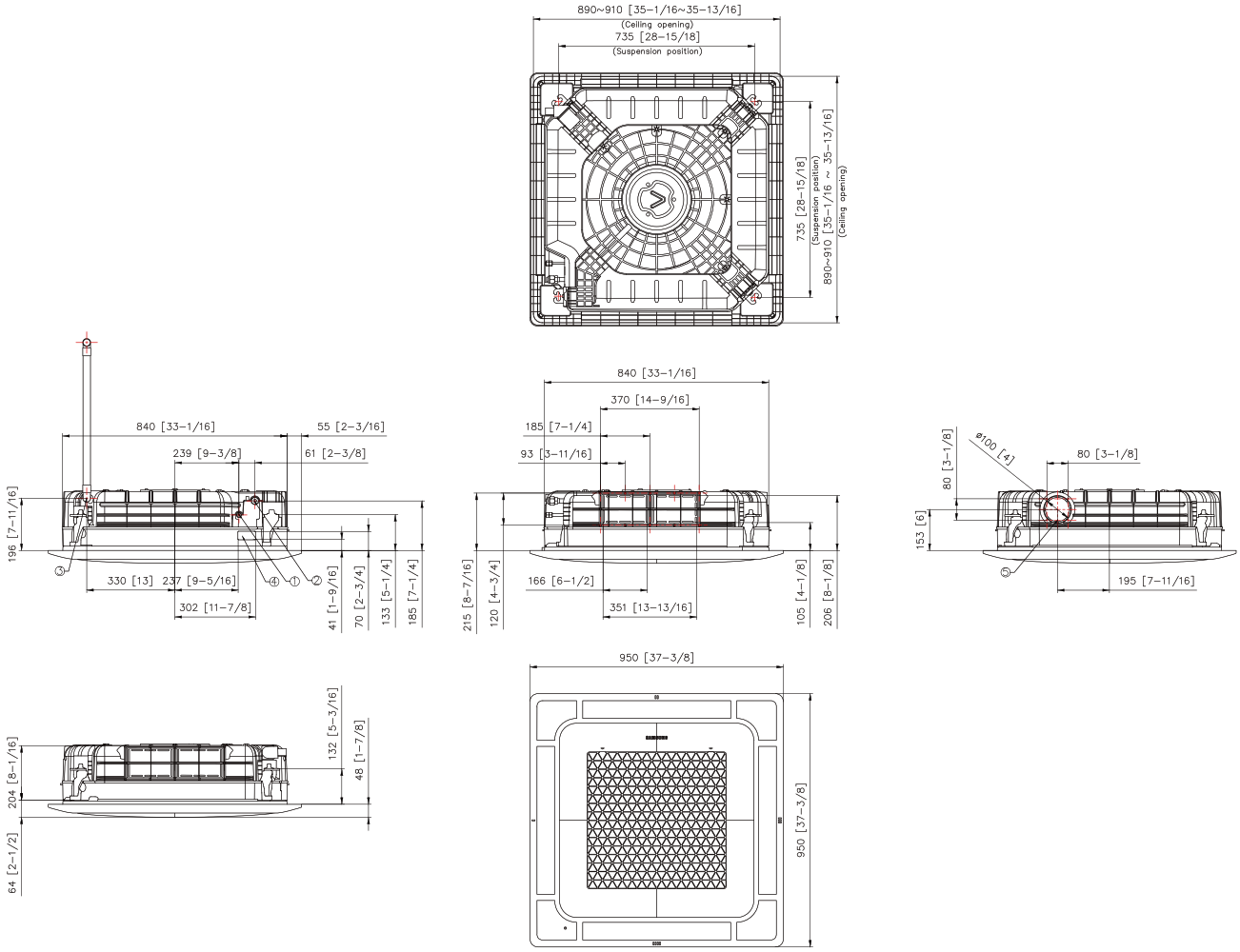
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

WindFree 4Way Cassette

AC052BN4PKG/EU

Units : mm [inches]



No.	Name	Description
		AC052BN4PKG/EU
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)
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

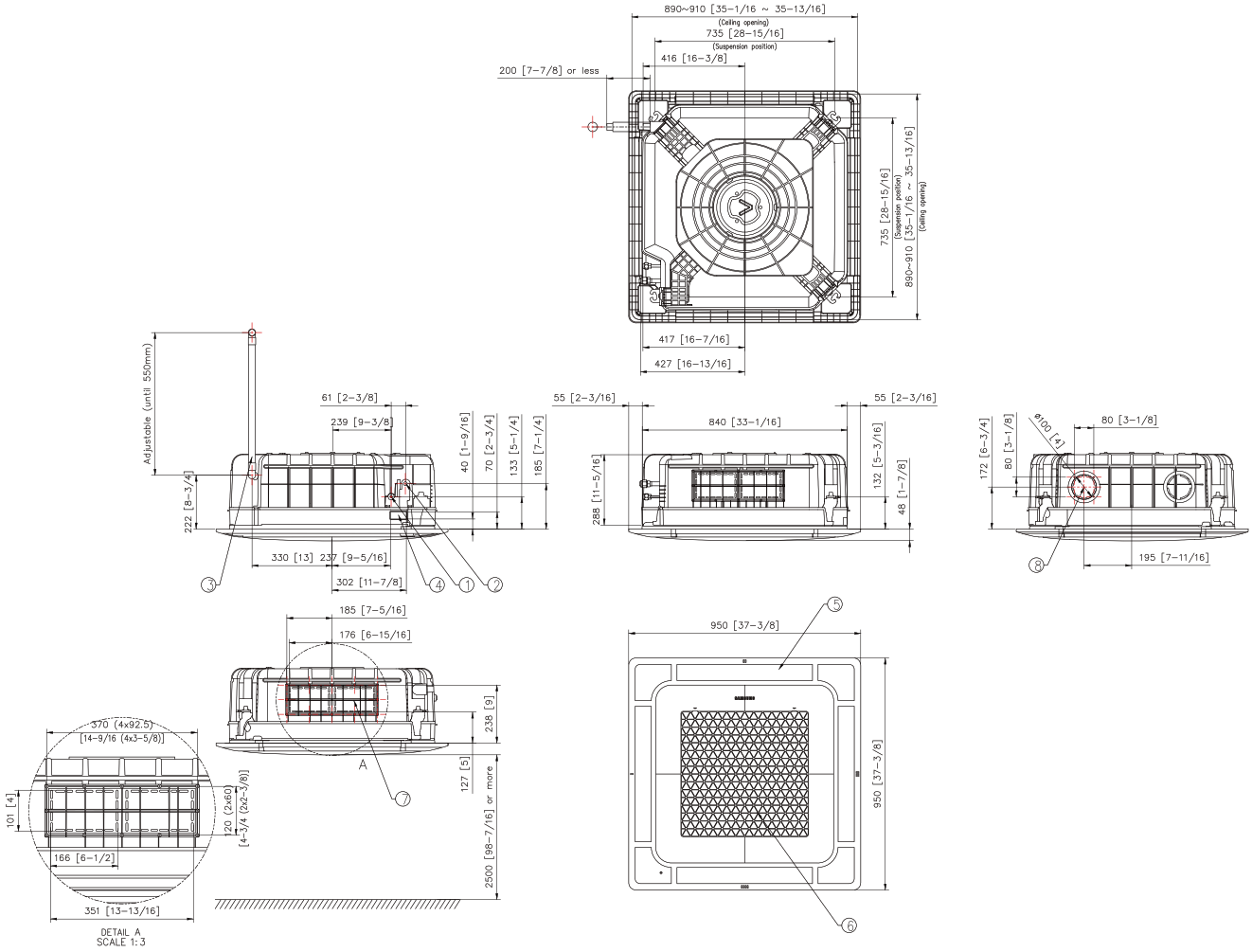
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

WindFree 4Way Cassette

AC071/100/120/140BN4PKG/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 Outlet Louver	
6	Air Inlet Grille	
7	Sub - duct	* The sub duct is not applicabel to the Wind-free panel
8	Fresh air intake	Φ10[4] , Use M4 Screw

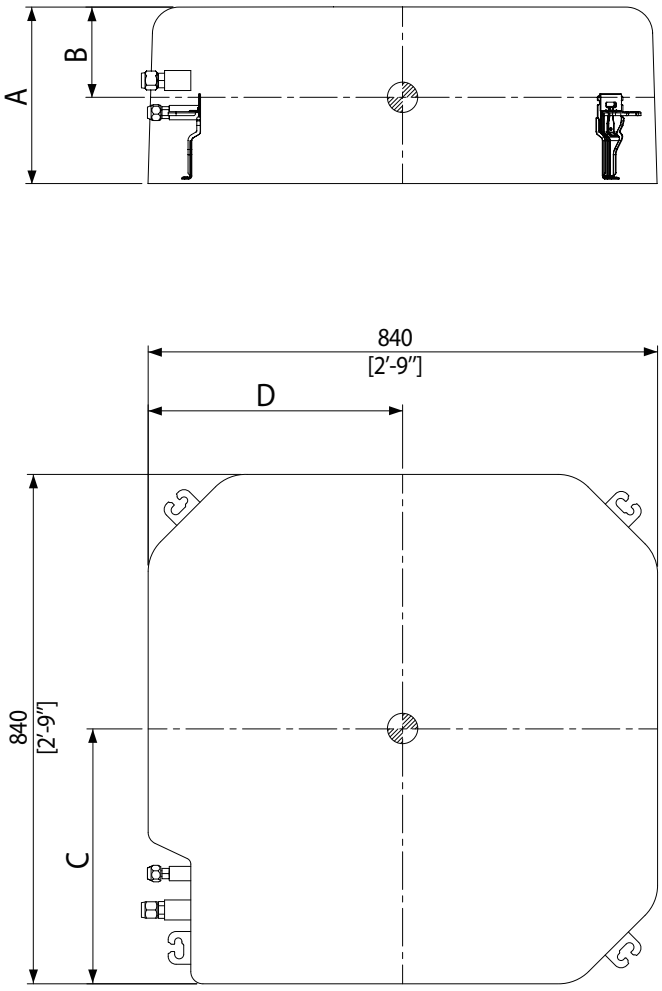
NOTE

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

5. Center of Gravity

WindFree 4Way Cassette

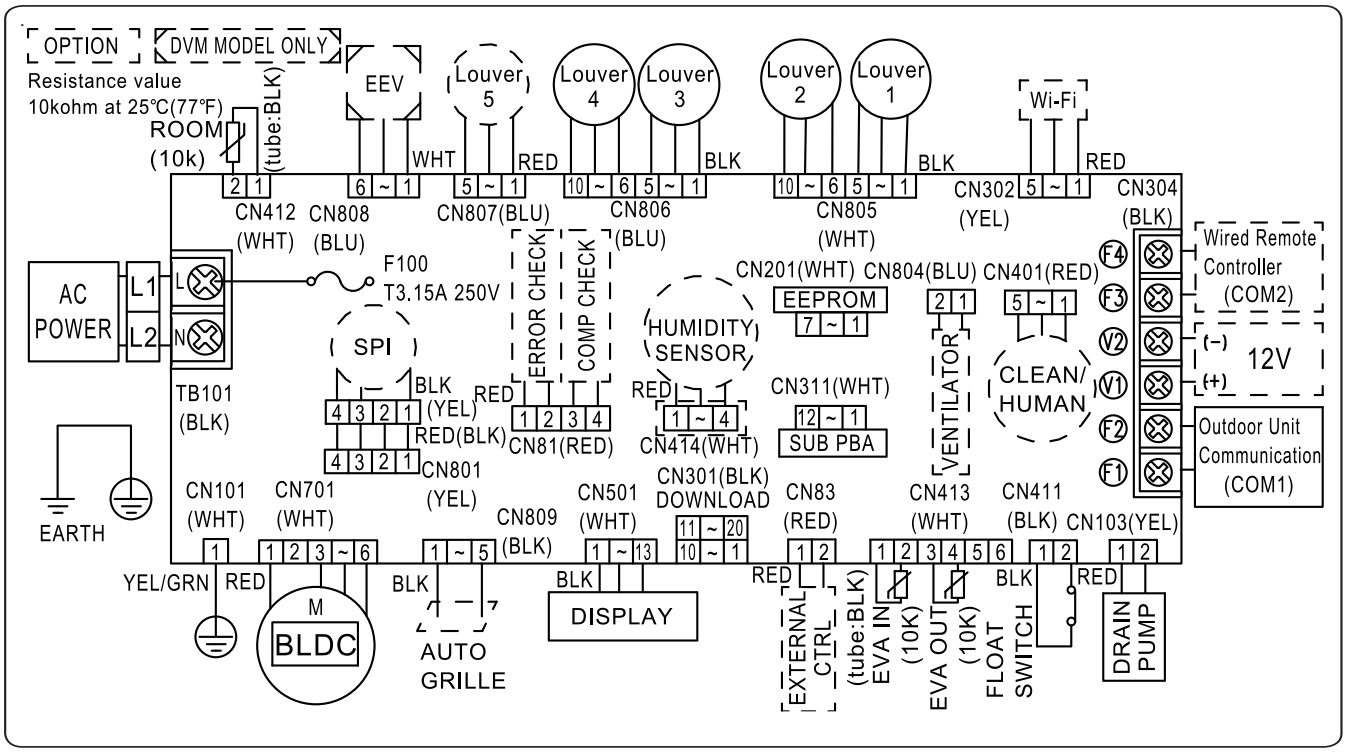
Units : mm [inches]



	A	B	C	D
5.2kW	204 [8]	70[2-3/4]	410 [16-1/8]	360 [14-3/16]
7.1/10.0/12.0/14.0kW	288 [11-3/8]	130[5]	420 [16-1/2]	420 [16-1/2]

6. Electrical Wiring Diagram

WindFree 4Way Cassette



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

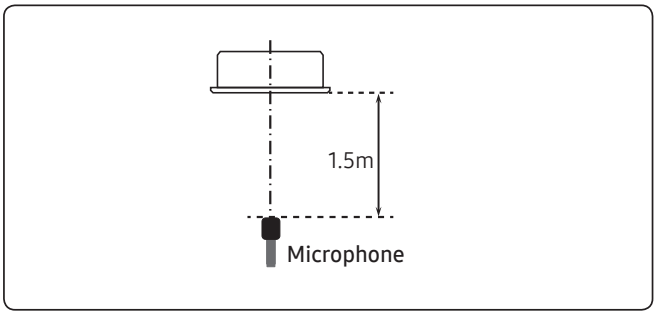
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭ : connector, N : The wire quantity

7. Sound Data

WindFree 4Way Cassette

Sound Pressure level

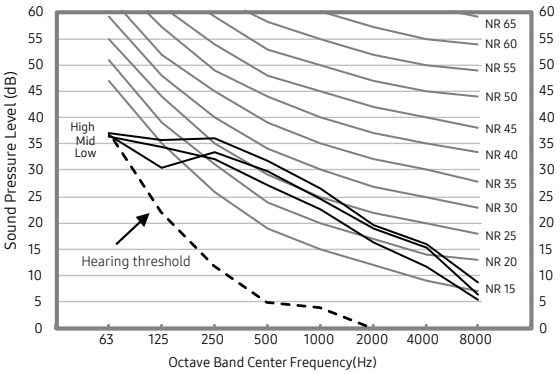
Unit: dB(A)



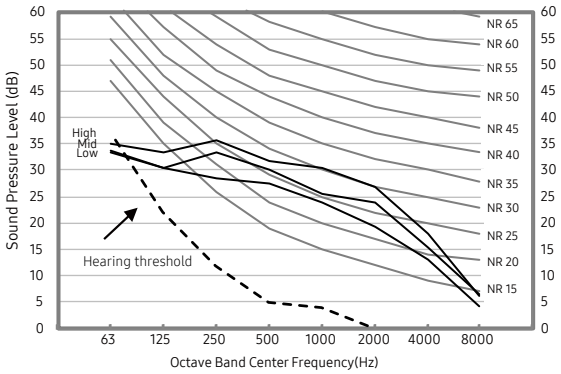
Model	High	Mid	Low
AC052BN4PKG/EU	33	31	29
AC071BN4PKG/EU	35	32	29

- NR Curve

1) AC052BN4PKG/EU



2) AC071BN4PKG/EU



NOTE

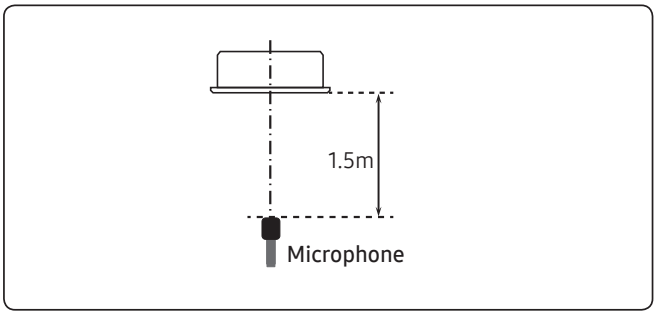
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

WindFree 4Way Cassette

Sound Pressure level

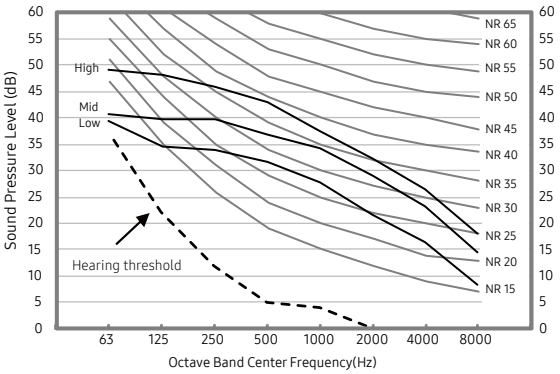
Unit: dB(A)



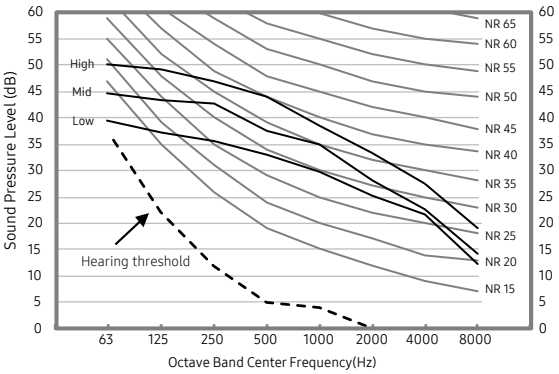
Model	High	Mid	Low
AC100BN4PKG/EU	44	39	33
AC120BN4PKG/EU	45	40	35
AC140BN4PKG/EU	45	41	37

- NR Curve

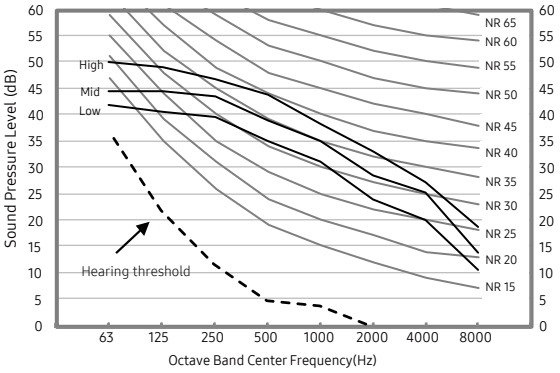
1) AC100BN4PKG/EU



2) AC120BN4PKG/EU



3) AC140BN4PKG/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

WindFree 4Way Cassette

Sound Power level

NOTE

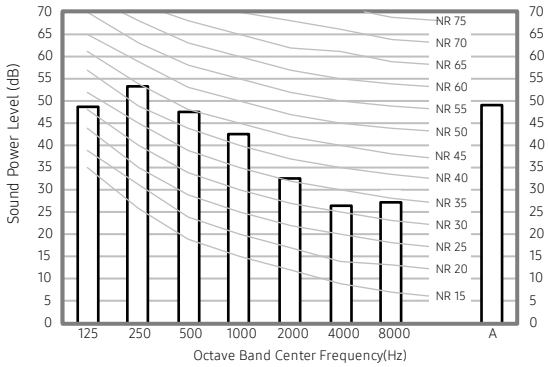
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

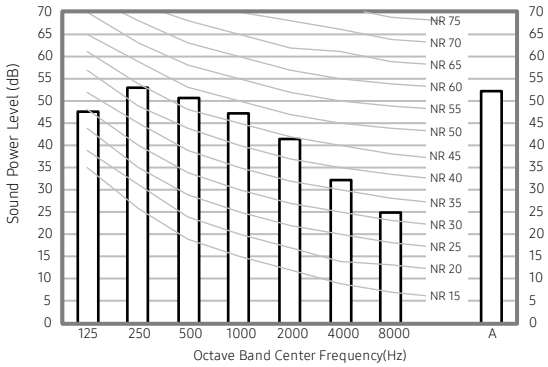
Model	Power
AC052BN4PKG/EU	49
AC071BN4PKG/EU	52

- NR Curve

1) AC052BN4PKG/EU



2) AC071BN4PKG/EU



7. Sound Data

WindFree 4Way Cassette

Sound Power level

NOTE

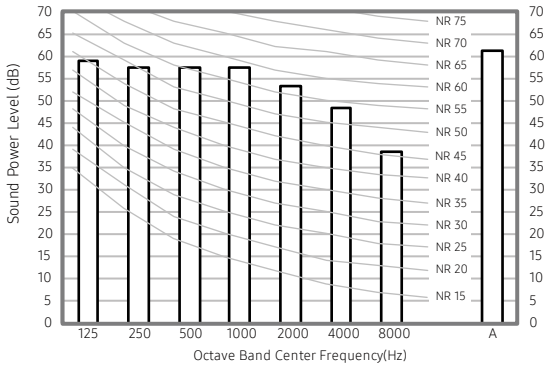
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

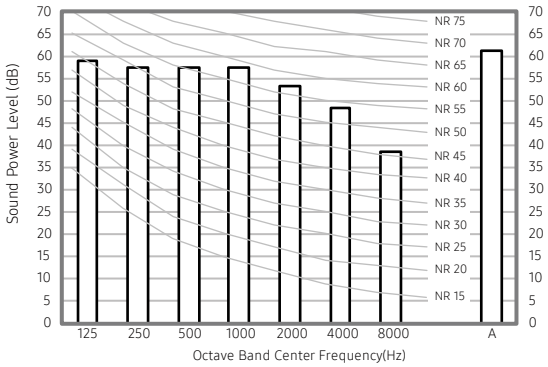
Model	Power
AC100BN4PKG/EU	61
AC120BN4PKG/EU	61
AC140BN4PKG/EU	61

- NR Curve

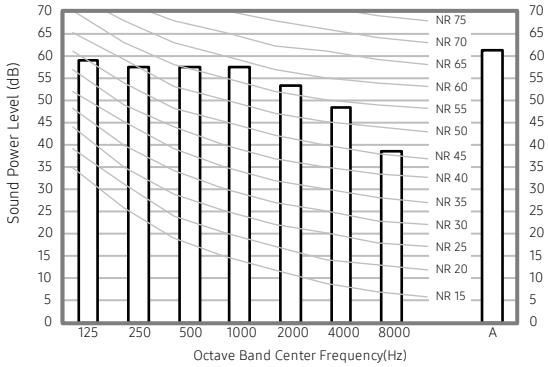
1) AC100BN4PKG/EU



2) AC120BN4PKG/EU



3) AC140BN4PKG/EU

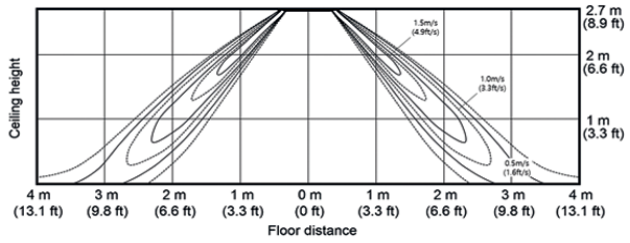


8. Temperature and air flow distribution

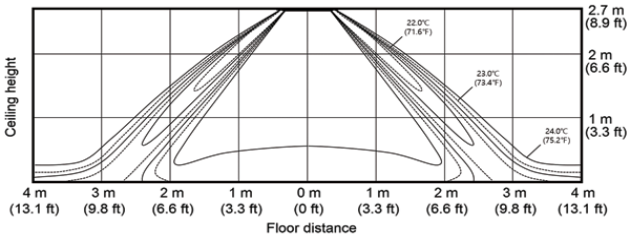
WindFree 4Way Cassette

AC052BN4PKG/EU

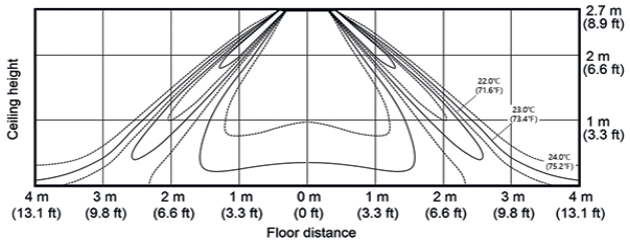
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



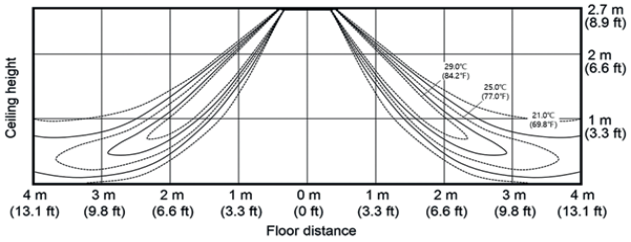
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

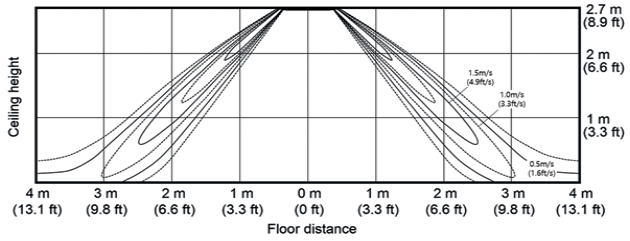


- Heating temperature distribution
  (Discharge angle : 52 degree)

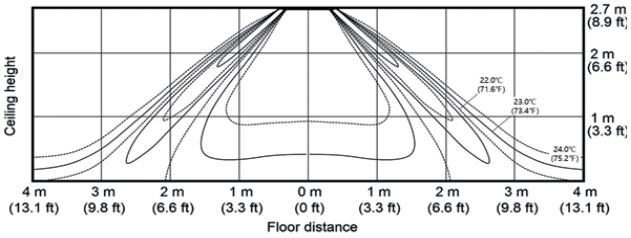


AC071BN4PKG/EU

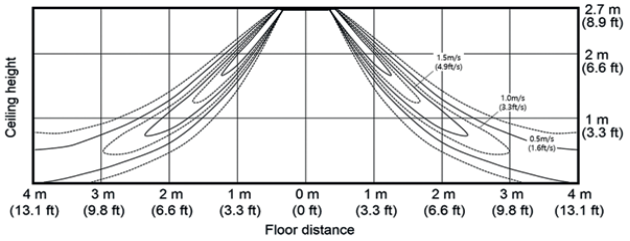
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



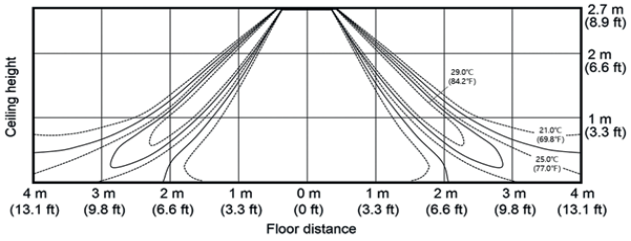
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

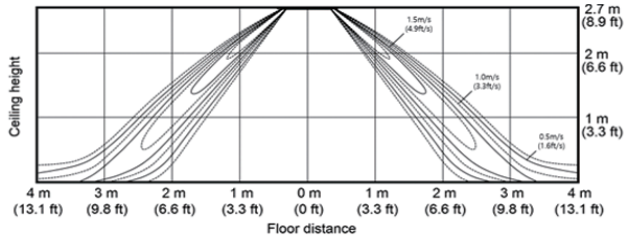


8. Temperature and air flow distribution

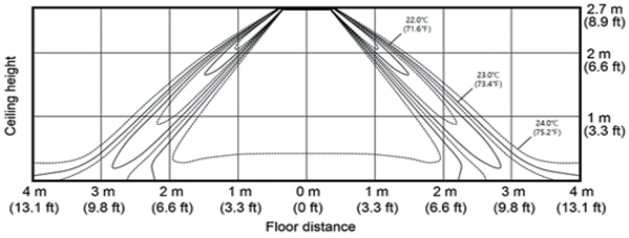
WindFree 4Way Cassette

AC100BN4PKG/EU

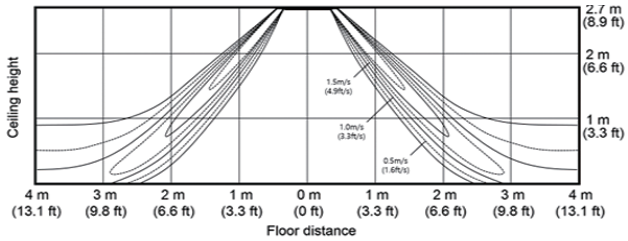
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



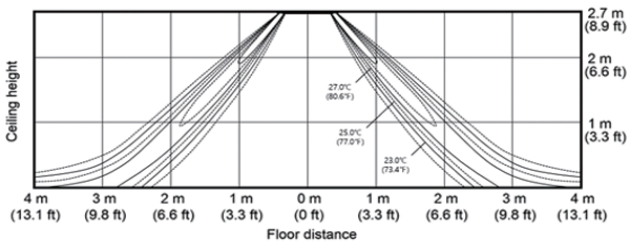
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

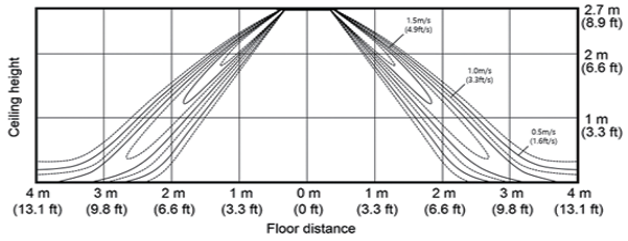


- Heating temperature distribution
  (Discharge angle : 52 degree)

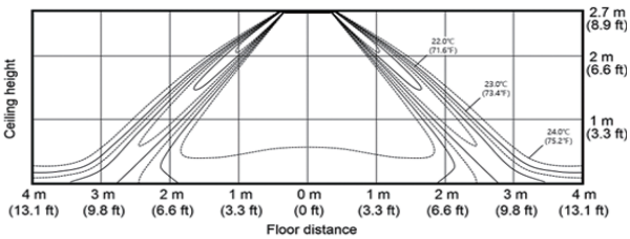


AC120BN4PKG/EU

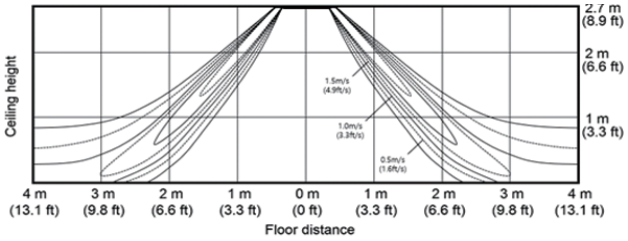
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



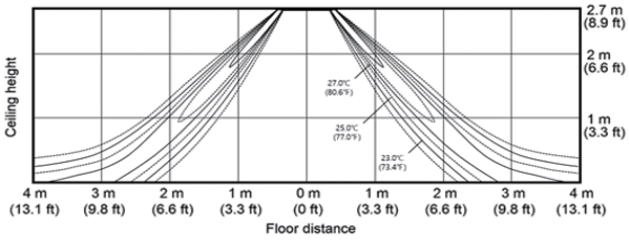
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

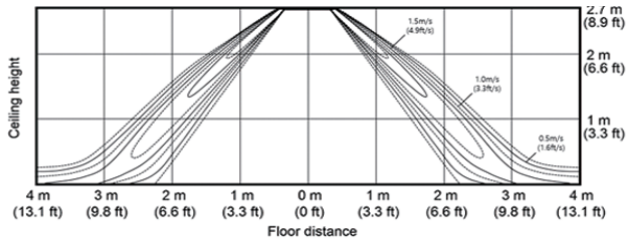


8. Temperature and air flow distribution

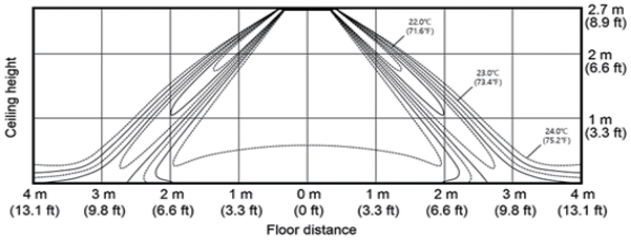
WindFree 4Way Cassette

AC140BN4PKG/EU

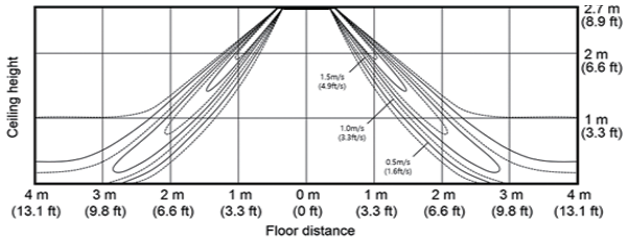
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



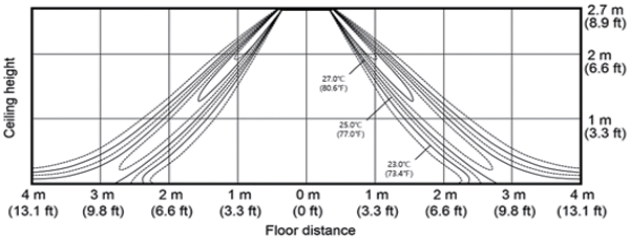
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)



360 Cassette

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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

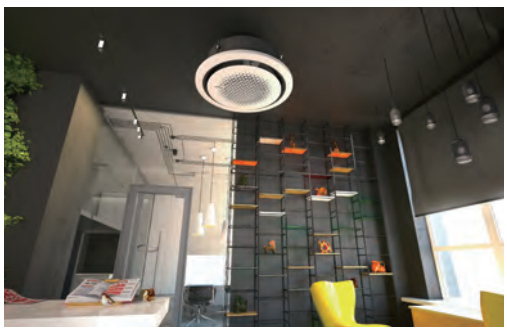
A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft**. With no blades to block the air flow, it also expels 25% more air* and spreads it farther.



* 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.

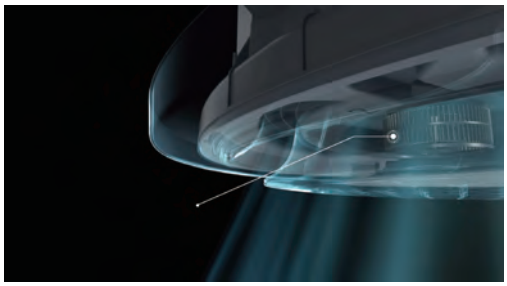




* Within an 9.3m radius the temperature difference is less than 0.6°C.

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				AC052BN6PKG/EU	AC071BN6PKG/EU
		Outdoor Unit				AC052BXAPKG/EU	AC071BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	1.20 / 5.00 / 7.50	2.10 / 7.10 / 9.80
					Btu/h	4,090 / 17,060 / 25,590	7,170 / 24,230 / 33,440
			Heating		kW	1.00 / 6.00 / 9.30	2.00 / 8.00 / 12.70
					Btu/h	3,410 / 20,470 / 31,730	6,820 / 27,300 / 43,330
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.24 / 1.22 / 2.45	0.45 / 1.71 / 3.15
			Heating		kW	0.20 / 1.62 / 3.05	0.37 / 1.96 / 4.45
		Current Input (Min/Std/Max)	Cooling		A	1.6 / 5.7 /10.8	3.0 / 8.1 / 14.0
			Heating		A	1.4 / 7.4 / 13.5	2.5 / 9.1 / 19.7
		Current	MCA		A	17.5	21.5
			MFA		A	20.0	25.0
	Efficiency	EER	Cooling		-	4.10	4.15
		COP	Heating		-	3.70	4.08
		SEER (Cooling Energy Grade)			-	8.3	7.8
		SCOP (Heating Energy Grade)			-	4.6	4.6
		Pdesignh			kW	3.9	5.0
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	50	55
			Elevation		m	30	30
			Chargeless		m	20	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.70	2.70
					tCO_2e	1.15	1.82
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	15.5 / 14.6 / 13.6	21.1 / 17.8 / 15.6
					l/s	258 / 243 / 227	352 / 297 / 260
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	65 x 1	97 x 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	33 / 31 / 29	35 / 32 / 29
		Sound Power Level			dB(A)	49	52
	External Dimension	Net Weight			kg	20.2	25.5
		Shipping Weight			kg	24.5	30.3
		Net Dimensions (WxHxD)			mm	947 x 281 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)			mm	990 x 330 x 990	990 x 414 x 990
	Casing	Material			-	Plastic (HIPS)	Plastic (HIPS)

1. Specification

360 Cassette

Indoor Unit	Model Name	Indoor Unit		AC052BN6PKG/EU	AC071BN6PKG/EU
		Outdoor Unit		AC052BXAPKG/EU	AC071BXAPKG/EU
	Panel (1)	Model Name	-	PC4NUDMAN	PC4NUDMAN
		Type	-	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	3.6	3.6
		Shipping Weight	kg	6.3	6.3
		Net Dimensions (WxHxD)	mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (3)	Model Name	-	PC4NUNMAN	PC4NUNMAN
		Type	-	Open Type(Circle)	Open Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	2.7	2.7
		Shipping Weight	kg	5.3	5.3
		Net Dimensions (WxHxD)	mm	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (5)	Model Name	-	PC6EUCMAN	PC6EUCMAN
		Type	-	Open Clean Type(Circle)	Open Clean Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.0	6.0
		Shipping Weight	kg	10.3	10.3
		Net Dimensions (WxHxD)	mm	1,050 x 102 x 1,050 (Φ1,050 x 102)	1,050 x 102 x 1,050 (Φ1,050 x 102)
		Shipping Dimensions (WxHxD)	mm	1,080 x 213 x 1,093	1,080 x 213 x 1,093
	Control System	Infrared remote control	-	AR-KH04E	AR-KH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removable / Washable	Removable / Washable

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Outdoor Unit	Model Name	Indoor Unit			AC052BN6PKG/EU	AC071BN6PKG/EU
		Outdoor Unit			AC052BXAPKG/EU	AC071BXAPKG/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		-	Green Hydrophile	Anti-Corrosion
	Compressor	Model Name			UB9TA9180FEQ	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.78	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	570	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	55	72
				l/s	917	1,200
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	48	49
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	50.0	75.0
		Shipping Weight		kg	54.0	80.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413	995 x 1,096 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

360 Cassette

System	Model Name	Indoor Unit				AC071BN6PKG/EU	AC100BN6PKG/EU
		Outdoor Unit				AC071BXAPNG/EU	AC100BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	2.10 / 7.10 / 9.80	3.80 / 10.00 / 12.50
					Btu/h	7,170 / 24,230 / 33,440	12,960 / 34,120 / 42,650
			Heating		kW	2.00 / 8.00 / 12.70	3.20 / 11.20 / 18.80
					Btu/h	6,820 / 27,300 / 43,330	10,910 / 38,210 / 61,140
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.45 / 1.71 / 3.15	0.75 / 2.42 / 3.25
			Heating		kW	0.37 / 1.96 / 4.45	0.59 / 2.75 / 6.40
		Current Input (Min/Std/Max)	Cooling		A	1.0 / 3.0 / 5.2	4.1 / 11.1 / 14.7
			Heating		A	0.8 / 3.3 / 7.1	3.2 / 12.5 / 27.9
		Current	MCA		A	17.6	29.5
			MFA		A	17.6	35.0
	Efficiency	EER	Cooling		-	4.15	4.13
		COP	Heating		-	4.08	4.07
		SEER (Cooling Energy Grade)			-	7.8	7.6
		SCOP (Heating Energy Grade)			-	4.6	4.6
		Pdesignh			kW	5.0	8.0
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	55	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	2.70	3.50
					tCO_2e	1.82	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	21.1 / 17.8 / 15.6	33.4 / 26.7 / 20.1
					l/s	352 / 297 / 260	557 / 445 / 335
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		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	H/M/L/(Silent)		dB(A)	35 / 32 / 29	44 / 39 / 33
		Sound Power Level			dB(A)	52	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			-	Plastic (HIPS)	Plastic (HIPS)

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Indoor Unit	Model Name	Indoor Unit		AC071BN6PKG/EU	AC100BN6PKG/EU
		Outdoor Unit		AC071BXAPNG/EU	AC100BXAPKG/EU
	Panel (1)	Model Name	-	PC4NUDMAN	PC4NUDMAN
		Type	-	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	3.6	3.6
		Shipping Weight	kg	6.3	6.3
		Net Dimensions (WxHxD)	mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (3)	Model Name	-	PC4NUNMAN	PC4NUNMAN
		Type	-	Open Type(Circle)	Open Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	2.7	2.7
		Shipping Weight	kg	5.3	5.3
		Net Dimensions (WxHxD)	mm	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1093 x 85 x 1083
	Panel (5)	Model Name	-	PC6EUCMAN	PC6EUCMAN
		Type	-	Open Clean Type(Circle)	Open Clean Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.0	6.0
		Shipping Weight	kg	10.3	10.3
		Net Dimensions (WxHxD)	mm	1,050 x 102 x 1,050 (Φ1,050 x 102)	1,050 x 102 x 1,050 (Φ1,050 x 102)
		Shipping Dimensions (WxHxD)	mm	1,080 x 213 x 1,093	1,080 x 213 x 1,093
	Control System	Infrared remote control	-	AR-EH04E	AR-KH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removable / Washable	Removalble / Washable

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Outdoor Unit	Model Name	Indoor Unit			AC071BN6PKG/EU	AC100BN6PKG/EU
		Outdoor Unit			AC071BXAPNG/EU	AC100BXAPKG/EU
	Power Supply			Ø, #, V, Hz	3,4,380~415,50	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			UB8TN8300FJU	ATQ420D1UNT1
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	2.91	3.44
		Oil	Type	-	POE	POE
			Initial charge	cc	1,200	1,500
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	72	125
				l/s	1,200	2,083
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	49	50
		Sound Power Level		dB(A)	64	66
	External Dimension	Net Weight		kg	74.0	100.0
		Shipping Weight		kg	79.0	110.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

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System	Model Name	Indoor Unit				AC100BN6PKG/EU	AC120BN6PKG/EU
		Outdoor Unit				AC100BXAPNG/EU	AC120BXAPNG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	3.80 / 10.00 / 12.50	4.10 / 12.10 / 14.00
					Btu/h	12,960 / 34,120 / 42,650	13,980 / 41,280 / 47,760
			Heating		kW	3.20 / 11.20 / 18.80	3.20 / 13.20 / 20.00
					Btu/h	10,910 / 38,210 / 61,140	10,980 / 45,040 / 68,240
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.75 / 2.42 / 3.25	0.75 / 3.10 / 4.30
			Heating		kW	0.59 / 2.75 / 6.40	0.59 / 3.50 / 7.90
		Current Input (Min/Std/Max)	Cooling		A	1.4 / 4.1 / 5.2	1.4 / 5.0 / 6.7
			Heating		A	1.2 / 4.6 / 9.3	1.2 / 5.5 / 11.5
		Current	MCA		A	17.6	17.6
			MFA		A	17.6	17.6
	Efficiency	EER	Cooling		-	4.13	3.90
		COP	Heating		-	4.07	3.77
		SEER (Cooling Energy Grade)			-	7.6	7.3
		SCOP (Heating Energy Grade)			-	4.6	4.4
		Pdesignh			kW	8.0	9.2
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	85	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	3.50	3.50
					tCO_2e	2.36	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	33.4 / 26.7 / 20.1	34.5 / 27.8 / 21.1
					l/s	557 / 445 / 335	575 / 463 / 352
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		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	H/M/L/(Silent)		dB(A)	44 / 39 / 33	45 / 40 / 35
		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			-	Plastic (HIPS)	Plastic (HIPS)

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Indoor Unit	Model Name	Indoor Unit		AC100BN6PKG/EU	AC120BN6PKG/EU
		Outdoor Unit		AC100BXAPNG/EU	AC120BXAPNG/EU
	Panel (1)	Model Name	-	PC4NUDMAN	PC4NUDMAN
		Type	-	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	3.6	3.6
		Shipping Weight	kg	6.3	6.3
		Net Dimensions (WxHxD)	mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (3)	Model Name	-	PC4NUNMAN	PC4NUNMAN
		Type	-	Open Type(Circle)	Open Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	2.7	2.7
		Shipping Weight	kg	5.3	5.3
		Net Dimensions (WxHxD)	mm	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	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	1,050 x 94 x 1,050 (Φ1,050 x 94)	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (5)	Model Name	-	PC6EUCMAN	PC6EUCMAN
		Type	-	Open Clean Type(Circle)	Open Clean Type(Circle)
		Material	-	HIPS	HIPS
		Color	-	DA White	DA White
		Net Weight	kg	6.0	6.0
		Shipping Weight	kg	10.3	10.3
		Net Dimensions (WxHxD)	mm	1,050 x 102 x 1,050 (Φ1,050 x 102)	1,050 x 102 x 1,050 (Φ1,050 x 102)
		Shipping Dimensions (WxHxD)	mm	1,080 x 213 x 1,093	1,080 x 213 x 1,093
	Control System	Infrared remote control	-	AR-KH04E	AR-KH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24	750/24
	Additional Accessories	Air Filter	-	Removalble / Washable	Removalble / Washable

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Outdoor Unit	Model Name	Indoor Unit			AC100BN6PKG/EU	AC120BN6PKG/EU
		Outdoor Unit			AC100BXAPNG/EU	AC120BXAPNG/EU
	Power Supply			Ø, #, V, Hz	3,4,380~415,50	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	2.91	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	1,200	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	125	125
				l/s	2,083	2,083
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	49
			Heating	dB(A)	50	52
		Sound Power Level		dB(A)	66	69
	External Dimension	Net Weight		kg	100.0	100.0
		Shipping Weight		kg	110.0	110.0
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

360 Cassette

System	Model Name	Indoor Unit			AC140BN6PKG/EU
		Outdoor Unit			AC140BXAPNG/EU
	Mode			-	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	4.20 / 13.40 / 15.50
				Btu/h	14,330 / 45,720 / 52,880
			Heating	kW	3.20 / 15.50 / 21.00
				Btu/h	10,980 / 52,880 / 71,650
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.75 / 3.65 / 5.05
			Heating	kW	0.59 / 4.55 / 8.00
		Current Input (Min/Std/Max)	Cooling	A	1.4 / 5.8 / 7.8
			Heating	A	1.2 / 7.1 / 11.7
		Current	MCA	A	17.6
			MFA	A	17.6
	Efficiency	EER	Cooling	-	3.67
		COP	Heating	-	3.41
		SEER (Cooling Energy Grade)		-	7.1
		SCOP (Heating Energy Grade)		-	4.4
		Pdesignh		kW	9.2
	Piping Connections	Liquid Pipe		Type	Flare connection
				Φ, ㎜ (inch)	9.52 (3/8)
		Gas Pipe		Type	Flare connection
				Φ, ㎜ (inch)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5
			Max.	m	85
			Elevation	m	30
			Chargeless	m	30
	Wiring connections	Communication	Min.	㎟	0.75
			Remark	-	F1, F2
	Refrigerant	Type		-	R32
		Factory Charging		kg	3.50
				tCO_2e	2.36
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50
	Heat Exchanger	Type		-	F&T
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Green Hydrophile
	Fan	Type		-	Turbo
		Quantity		EA	1
		Air Flow Rate	H/M/L	m^3/min	35.6 / 29.0 / 23.3
				l/s	593 / 483 / 388
		External Static Pressure	Min/Std/Max	mmAq	-
				Pa	-
	Fan Motor	Type		-	BLDC
		Output		W x n	97 x 1
	Drain	Drain Pipe		Φ, mm	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)	dB(A)	45 / 41 / 37
		Sound Power Level		dB(A)	62
	External Dimension	Net Weight		kg	25.5
		Shipping Weight		kg	30.3
		Net Dimensions (WxHxD)		mm	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 414 x 990
	Casing	Material		-	Plastic (HIPS)

1. Specification

360 Cassette

Indoor Unit	Model Name	Indoor Unit		AC140BN6PKG/EU
		Outdoor Unit		AC140BXAPNG/EU
	Panel (1)	Model Name	-	PC4NUDMAN
		Type	-	Ceiling Type(Sqare)
		Material	-	HIPS
		Color	-	DA White
		Net Weight	kg	3.6
		Shipping Weight	kg	6.3
		Net Dimensions (WxHxD)	mm	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083
	Panel (2)	Model Name	-	PC4NBDMAN
		Type	-	Ceiling Type(Sqare)
		Material	-	HIPS
		Color	-	Black
		Net Weight	kg	3.6
		Shipping Weight	kg	6.3
		Net Dimensions (WxHxD)	mm	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083
	Panel (3)	Model Name	-	PC4NUNMAN
		Type	-	Open Type(Circle)
		Material	-	HIPS
		Color	-	DA White
		Net Weight	kg	2.7
		Shipping Weight	kg	5.3
		Net Dimensions (WxHxD)	mm	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083
	Panel (4)	Model Name	-	PC4NBNMAN
		Type	-	Open Type(Circle)
		Material	-	HIPS
		Color	-	Black
		Net Weight	kg	2.7
		Shipping Weight	kg	5.3
		Net Dimensions (WxHxD)	mm	1,050 x 94 x 1,050 (Φ1,050 x 94)
		Shipping Dimensions (WxHxD)	mm	1,093 x 85 x 1,083
	Panel (5)	Model Name	-	PC6EUCMAN
		Type	-	Open Clean Type(Circle)
		Material	-	HIPS
		Color	-	DA White
		Net Weight	kg	6.0
		Shipping Weight	kg	10.3
		Net Dimensions (WxHxD)	mm	1,050 x 102 x 1,050 (Φ1,050 x 102)
		Shipping Dimensions (WxHxD)	mm	1,080 x 213 x 1,093
	Control System	Infrared remote control	-	AR-KH04E
		Wired remote control	-	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump	-	Included
		Max. lifting Height / Displacement	mm / Liter/h	750/24
	Additional Accessories	Air Filter	-	Removalble / Washable

1. Specification

360 Cassette

Outdoor Unit	Model Name	Indoor Unit			AC140BN6PKG/EU
		Outdoor Unit			AC140BXAPNG/EU
	Power Supply			Ø, #, V, Hz	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU
		Type		-	Twin BLDC Rotary
		Output		kW	2.91
		Oil	Type	-	POE
			Initial charge	cc	1,200
	Fan	Type		-	Propeller
		Discharge direction		-	Side
		Quantity		EA	1
		Air Flow Rate		m^3/min	125
				l/s	2,083
	Fan Motor	Type		-	BLDC
		Output		W x n	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	50
			Heating	dB(A)	52
		Sound Power Level		dB(A)	70
	External Dimension	Net Weight		kg	100.0
		Shipping Weight		kg	110.0
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52
		Heating		°C	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

2. Summary Table

360 Cassette

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052BN6PKG/EU	20.2	Max.	7.5	9.3	High	15.5	33	49
		Std.	5.0	6.0	Mid	14.6	31	-
		Min.	1.2	1.0	Low	13.6	29	-
AC071BN6PKG/EU	25.5	Max.	9.8	12.7	High	21.1	35	52
		Std.	7.1	8.0	Mid	17.8	32	-
		Min.	2.1	2.0	Low	15.6	29	-
AC100BN6PKG/EU	25.5	Max.	12.5	18.8	High	33.4	44	61
		Std.	10.0	11.2	Mid	26.7	39	-
		Min.	3.8	3.2	Low	20.1	33	-
AC120BN6PKG/EU	25.5	Max.	14.0	20.0	High	34.5	45	61
		Std.	12.1	13.2	Mid	27.8	40	-
		Min.	4.1	3.2	Low	21.1	35	-
AC140BN6PKG/EU	25.5	Max.	15.5	21.0	High	35.6	45	62
		Std.	13.4	15.5	Mid	29.0	41	-
		Min.	4.2	3.2	Low	23.3	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				
AC052BN6PKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	1.5	17.5	17.5	20.0
AC071BN6PKG/EU	AC071BXAPKG/EU	50	220 to 240	198	264	20.0	20.0	1.5	21.5	21.5	25.0
AC071BN6PKG/EU	AC071BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC100BN6PKG/EU	AC100BXAPKG/EU	50	220 to 240	198	264	28.0	28.0	1.5	29.5	29.5	35.0
AC100BN6PKG/EU	AC100BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC120BN6PKG/EU	AC120BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.5	17.6	17.6	17.6
AC140BN6PKG/EU	AC140BXAPNG/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) AC052BN6PKG/EU + AC052BXAPKG/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
-20	5.64	4.07	1.07	5.94	4.19	1.09	6.18	4.32	1.12	6.38	4.46	1.14	6.50	4.41	1.15	6.83	4.37	1.16	7.17	4.28	1.19
21	5.53	3.68	1.21	5.82	3.80	1.23	6.06	3.92	1.26	6.25	4.04	1.28	6.38	4.00	1.29	6.69	3.96	1.31	7.03	3.88	1.33
35	4.42	3.47	1.15	4.66	3.58	1.17	4.85	3.69	1.20	5.00	3.80	1.22	5.10	3.76	1.23	5.36	3.72	1.24	5.62	3.65	1.27
46	5.31	3.75	2.47	5.59	3.86	2.52	5.82	3.98	2.57	6.00	4.10	2.62	6.12	4.06	2.65	6.43	4.02	2.68	6.75	3.94	2.73
52	3.54	3.29	1.66	3.72	3.39	1.70	3.88	3.49	1.73	4.00	3.60	1.77	4.08	3.56	1.79	4.28	3.53	1.80	4.50	3.46	1.84

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
-25	3.55	1.98	3.51	1.96	3.48	1.94	3.45	1.92	3.41	1.91	3.38	1.89
-15	6.12	3.11	6.06	3.08	6.00	3.05	5.94	3.02	5.88	2.98	5.82	2.96
-5	7.53	3.39	7.45	3.35	7.38	3.32	7.31	3.29	7.23	3.25	7.16	3.22
0	7.47	2.89	7.39	2.86	7.32	2.84	7.25	2.81	7.17	2.78	7.10	2.75
7	6.12	1.65	6.06	1.64	6.00	1.62	5.94	1.60	5.88	1.59	5.82	1.57
24	10.10	2.73	10.00	2.70	9.90	2.67	9.80	2.65	9.70	2.62	9.61	2.59

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(2) AC071BN6PKG/EU + AC071BXAPKG/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
-20	8.12	6.22	1.43	8.55	6.41	1.46	8.90	6.61	1.49	9.18	6.82	1.52	9.36	6.75	1.54	9.83	6.68	1.55	10.32	6.55	1.58
21	8.04	5.57	1.63	8.46	5.74	1.66	8.82	5.92	1.69	9.09	6.10	1.73	9.27	6.04	1.74	9.73	5.98	1.76	10.22	5.86	1.80
35	6.28	5.12	1.61	6.61	5.28	1.64	6.89	5.44	1.68	7.10	5.61	1.71	7.24	5.55	1.73	7.60	5.50	1.74	7.98	5.39	1.78
46	6.28	5.07	2.93	6.61	5.22	2.99	6.89	5.39	3.05	7.10	5.55	3.11	7.24	5.50	3.14	7.60	5.44	3.17	7.98	5.33	3.24
52	4.40	4.52	2.41	4.63	4.66	2.46	4.82	4.81	2.51	4.97	4.96	2.57	5.07	4.91	2.59	5.32	4.86	2.62	5.59	4.76	2.67

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
-25	5.16	3.10	5.11	3.07	5.06	3.04	5.01	3.01	4.96	2.98	4.91	2.95
-15	9.38	5.04	9.29	4.99	9.20	4.94	9.11	4.89	9.02	4.84	8.93	4.79
-5	12.08	6.00	11.96	5.94	11.84	5.88	11.72	5.82	11.60	5.76	11.49	5.71
0	10.61	3.92	10.50	3.88	10.40	3.84	10.30	3.80	10.19	3.77	10.09	3.73
7	8.16	2.00	8.08	1.98	8.00	1.96	7.92	1.94	7.84	1.92	7.76	1.90
24	11.26	2.76	11.15	2.73	11.04	2.70	10.93	2.68	10.82	2.65	10.71	2.62

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(3) AC071BN6PKG/EU + AC071BXAPNG/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
-20	8.12	6.22	1.43	8.55	6.41	1.46	8.90	6.61	1.49	9.18	6.82	1.52	9.36	6.75	1.54	9.83	6.68	1.55	10.32	6.55	1.58
21	8.04	5.57	1.63	8.46	5.74	1.66	8.82	5.92	1.69	9.09	6.10	1.73	9.27	6.04	1.74	9.73	5.98	1.76	10.22	5.86	1.80
35	6.28	5.12	1.61	6.61	5.28	1.64	6.89	5.44	1.68	7.10	5.61	1.71	7.24	5.55	1.73	7.60	5.50	1.74	7.98	5.39	1.78
46	6.28	5.07	2.93	6.61	5.22	2.99	6.89	5.39	3.05	7.10	5.55	3.11	7.24	5.50	3.14	7.60	5.44	3.17	7.98	5.33	3.24
52	4.40	4.52	2.41	4.63	4.66	2.46	4.82	4.81	2.51	4.97	4.96	2.57	5.07	4.91	2.59	5.32	4.86	2.62	5.59	4.76	2.67

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
-25	5.16	3.10	5.11	3.07	5.06	3.04	5.01	3.01	4.96	2.98	4.91	2.95
-15	9.38	5.04	9.29	4.99	9.20	4.94	9.11	4.89	9.02	4.84	8.93	4.79
-5	12.08	6.00	11.96	5.94	11.84	5.88	11.72	5.82	11.60	5.76	11.49	5.71
0	10.61	3.92	10.50	3.88	10.40	3.84	10.30	3.80	10.19	3.77	10.09	3.73
7	8.16	2.00	8.08	1.98	8.00	1.96	7.92	1.94	7.84	1.92	7.76	1.90
24	11.26	2.76	11.15	2.73	11.04	2.70	10.93	2.68	10.82	2.65	10.71	2.62

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(4) AC100BN6PKG/EU + AC100BXAPKG/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
-20	10.56	8.22	2.13	11.11	8.47	2.18	11.58	8.73	2.22	11.93	9.00	2.27	12.17	8.91	2.29	12.78	8.82	2.31	13.42	8.65	2.36
21	10.35	8.05	2.20	10.90	8.30	2.24	11.35	8.56	2.29	11.70	8.83	2.34	11.93	8.74	2.36	12.53	8.65	2.38	13.16	8.48	2.43
35	8.85	7.25	2.28	9.31	7.47	2.32	9.70	7.70	2.37	10.00	7.94	2.42	10.20	7.86	2.44	10.71	7.78	2.47	11.25	7.63	2.52
46	8.05	6.66	2.96	8.47	6.87	3.02	8.83	7.08	3.08	9.10	7.30	3.15	9.28	7.22	3.18	9.75	7.15	3.21	10.23	7.01	3.27
52	6.55	6.21	2.10	6.89	6.41	2.14	7.18	6.60	2.18	7.40	6.81	2.23	7.55	6.74	2.25	7.93	6.67	2.27	8.32	6.54	2.32

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
-25	9.28	3.93	9.19	3.89	9.10	3.85	9.01	3.81	8.92	3.77	8.83	3.74
-15	13.26	4.43	13.13	4.39	13.00	4.35	12.87	4.30	12.74	4.26	12.61	4.22
-5	14.05	4.91	13.91	4.86	13.78	4.81	13.64	4.76	13.50	4.72	13.37	4.67
0	13.37	4.15	13.24	4.11	13.10	4.07	12.97	4.03	12.84	3.99	12.71	3.95
7	11.43	2.81	11.31	2.78	11.20	2.75	11.09	2.72	10.98	2.70	10.87	2.67
24	15.65	3.31	15.50	3.28	15.34	3.25	15.19	3.21	15.04	3.18	14.89	3.15

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(5) AC100BN6PKG/EU + AC100BXAPNG/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
-20	10.56	8.22	2.13	11.11	8.47	2.18	11.58	8.73	2.22	11.93	9.00	2.27	12.17	8.91	2.29	12.78	8.82	2.31	13.42	8.65	2.36
21	10.35	8.05	2.20	10.90	8.30	2.24	11.35	8.56	2.29	11.70	8.83	2.34	11.93	8.74	2.36	12.53	8.65	2.38	13.16	8.48	2.43
35	8.85	7.25	2.28	9.31	7.47	2.32	9.70	7.70	2.37	10.00	7.94	2.42	10.20	7.86	2.44	10.71	7.78	2.47	11.25	7.63	2.52
46	8.05	6.66	2.96	8.47	6.87	3.02	8.83	7.08	3.08	9.10	7.30	3.15	9.28	7.22	3.18	9.75	7.15	3.21	10.23	7.01	3.27
52	6.55	6.21	2.10	6.89	6.41	2.14	7.18	6.60	2.18	7.40	6.81	2.23	7.55	6.74	2.25	7.93	6.67	2.27	8.32	6.54	2.32

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
-25	9.28	3.93	9.19	3.89	9.10	3.85	9.01	3.81	8.92	3.77	8.83	3.74
-15	13.26	4.43	13.13	4.39	13.00	4.35	12.87	4.30	12.74	4.26	12.61	4.22
-5	14.05	4.91	13.91	4.86	13.78	4.81	13.64	4.76	13.50	4.72	13.37	4.67
0	13.37	4.15	13.24	4.11	13.10	4.07	12.97	4.03	12.84	3.99	12.71	3.95
7	11.43	2.81	11.31	2.78	11.20	2.75	11.09	2.72	10.98	2.70	10.87	2.67
24	15.65	3.31	15.50	3.28	15.34	3.25	15.19	3.21	15.04	3.18	14.89	3.15

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(6) AC120BN6PKG/EU + AC120BXAPNG/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
-20	12.77	9.33	2.73	13.45	9.62	2.79	14.01	9.91	2.84	14.44	10.22	2.90	14.73	10.12	2.93	15.47	10.02	2.96	16.24	9.82	3.02
21	12.52	9.14	2.82	13.18	9.43	2.87	13.73	9.72	2.93	14.16	10.02	2.99	14.44	9.92	3.02	15.16	9.82	3.05	15.92	9.62	3.11
35	10.70	8.23	2.92	11.27	8.48	2.98	11.74	8.74	3.04	12.10	9.01	3.10	12.34	8.92	3.13	12.96	8.84	3.16	13.61	8.66	3.23
46	9.74	7.56	3.79	10.25	7.80	3.87	10.68	8.04	3.95	11.01	8.29	4.03	11.23	8.20	4.07	11.79	8.12	4.11	12.38	7.96	4.19
52	7.06	6.71	2.68	7.44	6.91	2.74	7.75	7.13	2.79	7.99	7.35	2.85	8.15	7.27	2.88	8.55	7.20	2.91	8.98	7.06	2.97

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
-25	10.00	5.00	9.90	4.95	9.80	4.90	9.70	4.85	9.60	4.80	9.51	4.75
-15	14.28	5.64	14.14	5.59	14.00	5.53	13.86	5.47	13.72	5.42	13.58	5.37
-5	16.56	6.25	16.40	6.19	16.24	6.13	16.07	6.06	15.91	6.00	15.75	5.94
0	15.75	5.28	15.60	5.23	15.44	5.18	15.29	5.13	15.14	5.08	14.99	5.03
7	13.47	3.57	13.33	3.54	13.20	3.50	13.07	3.47	12.94	3.43	12.81	3.40
24	18.45	4.21	18.26	4.17	18.08	4.13	17.90	4.09	17.72	4.05	17.55	4.01

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

360 Cassette

(7) AC140BN6PKG/EU + AC140BXAPNG/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
-20	14.15	10.07	3.22	14.89	10.38	3.28	15.51	10.70	3.35	15.99	11.03	3.42	16.31	10.92	3.45	17.13	10.81	3.48	17.98	10.59	3.55
21	13.87	9.87	3.32	14.60	10.17	3.38	15.21	10.49	3.45	15.68	10.81	3.52	15.99	10.70	3.56	16.79	10.60	3.59	17.63	10.39	3.66
35	11.85	8.88	3.44	12.48	9.15	3.51	13.00	9.44	3.58	13.40	9.73	3.65	13.67	9.63	3.69	14.35	9.53	3.72	15.07	9.34	3.80
46	10.79	8.16	4.47	11.36	8.41	4.56	11.83	8.67	4.65	12.19	8.94	4.75	12.44	8.85	4.79	13.06	8.76	4.84	13.71	8.59	4.94
52	7.82	7.43	3.16	8.24	7.66	3.23	8.58	7.89	3.29	8.84	8.14	3.36	9.02	8.06	3.39	9.47	7.97	3.43	9.95	7.82	3.49

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
-25	10.35	6.50	10.25	6.43	10.15	6.37	10.05	6.31	9.95	6.24	9.85	6.18
-15	14.79	7.33	14.65	7.26	14.50	7.19	14.36	7.12	14.21	7.05	14.07	6.98
-5	19.45	8.12	19.26	8.04	19.07	7.96	18.87	7.88	18.69	7.80	18.50	7.73
0	18.50	6.87	18.32	6.80	18.14	6.73	17.95	6.67	17.77	6.60	17.60	6.53
7	15.81	4.64	15.66	4.60	15.50	4.55	15.35	4.50	15.19	4.46	15.04	4.41
24	21.50	5.48	21.29	5.42	21.08	5.37	20.87	5.32	20.66	5.26	20.45	5.21

NOTE

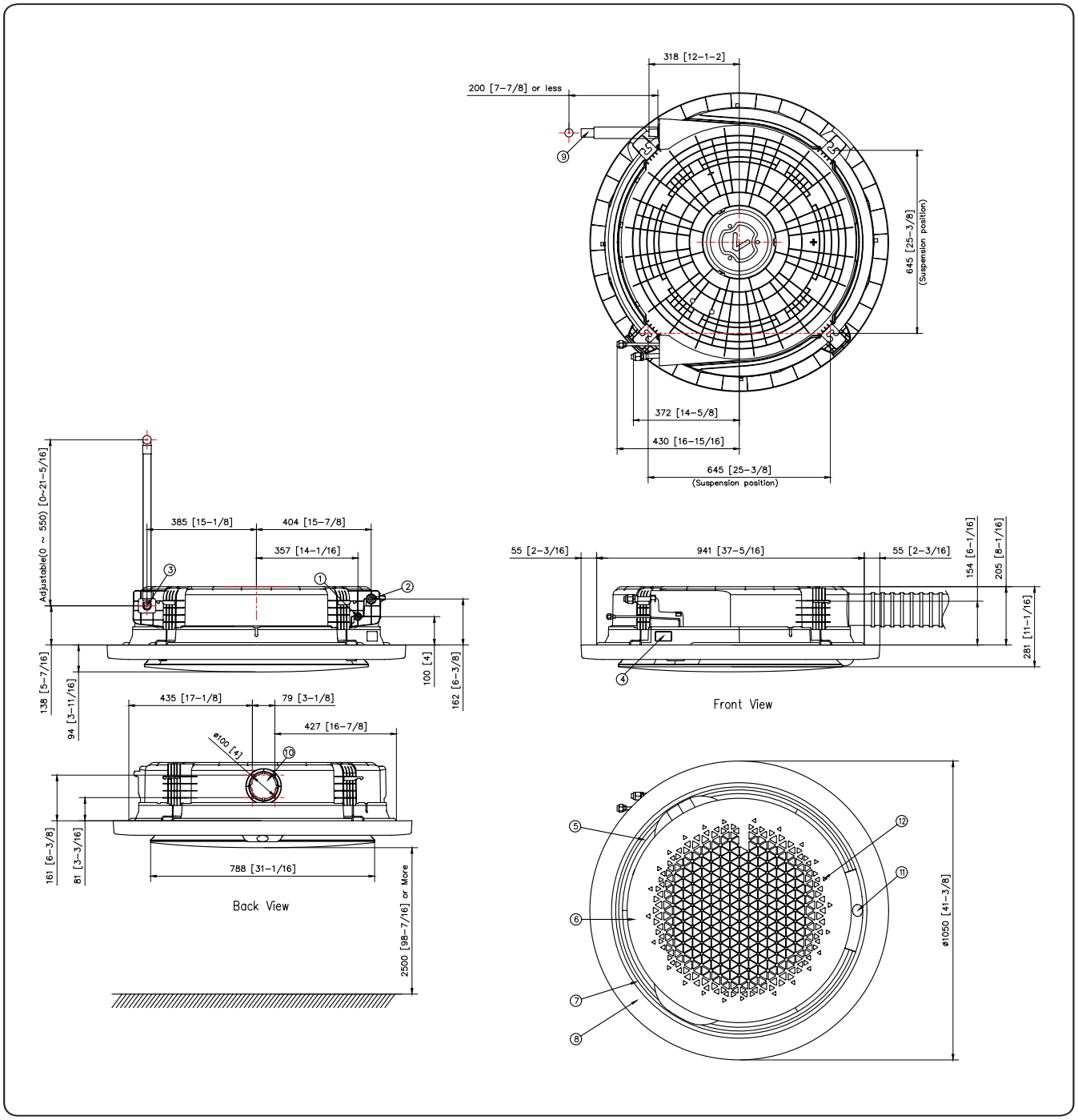
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

360 Cassette (Circle)

AC052BN6PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circle)

AC052BN6PKG/EU

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ12.7(1/2)	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

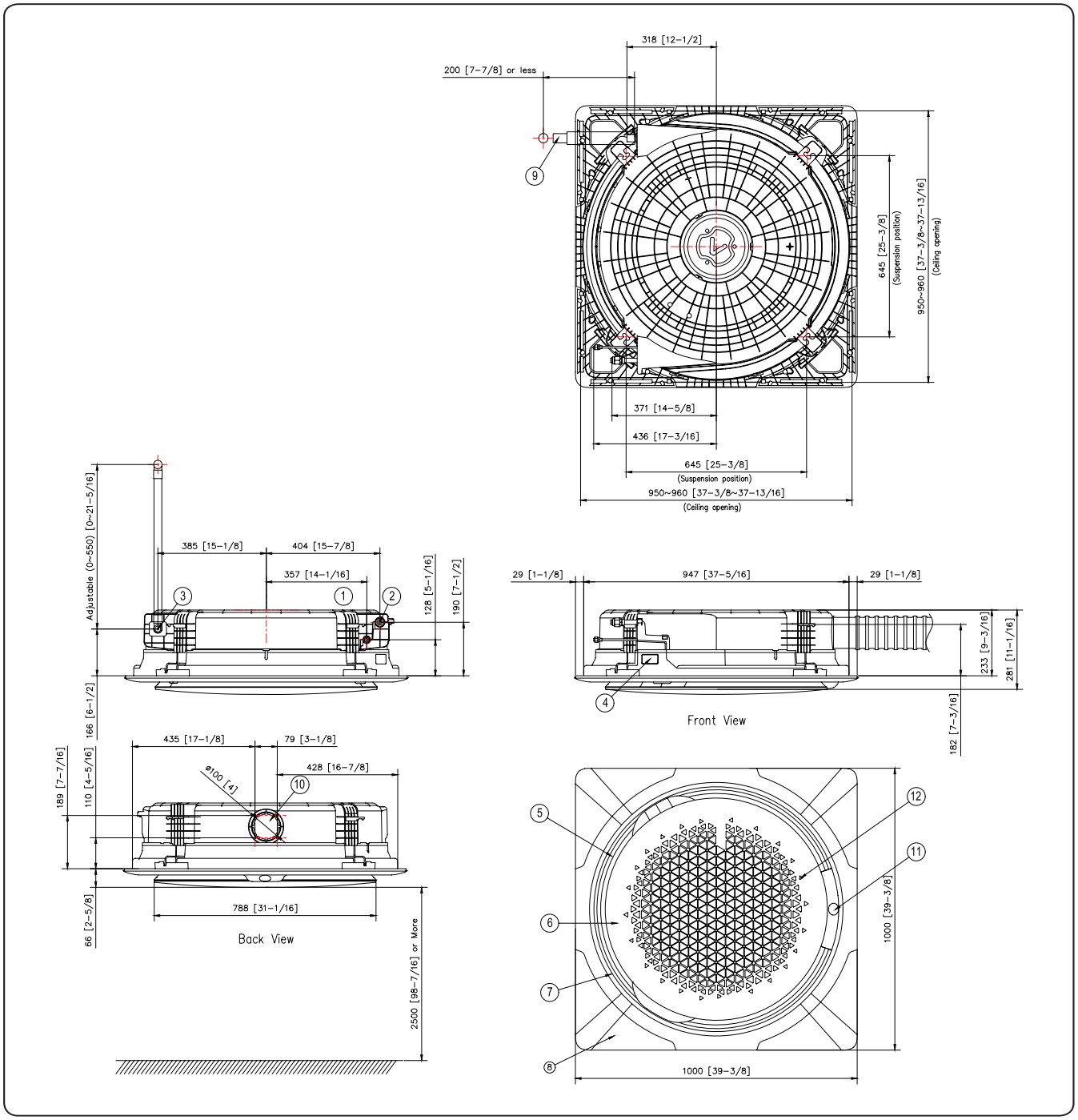
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

AC052BN6PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

AC052BN6PKG/EU

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)	7	Suction rim for Booster fan	
2	Gas pipe connection	Φ12.7(1/2)	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

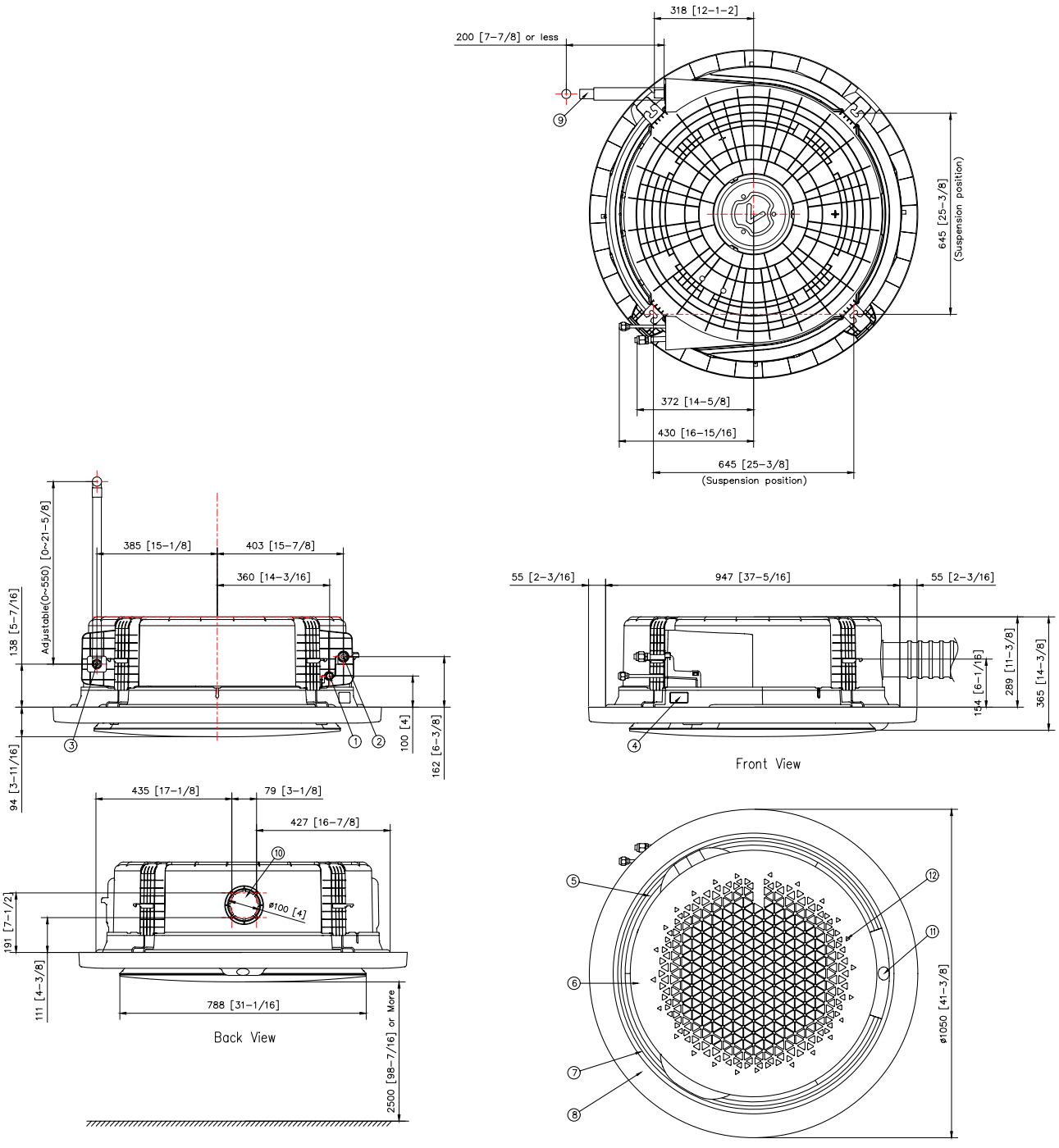
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

AC071/100/120/140BN6PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circle)

AC071/100/120/140BN6PKG/EU

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

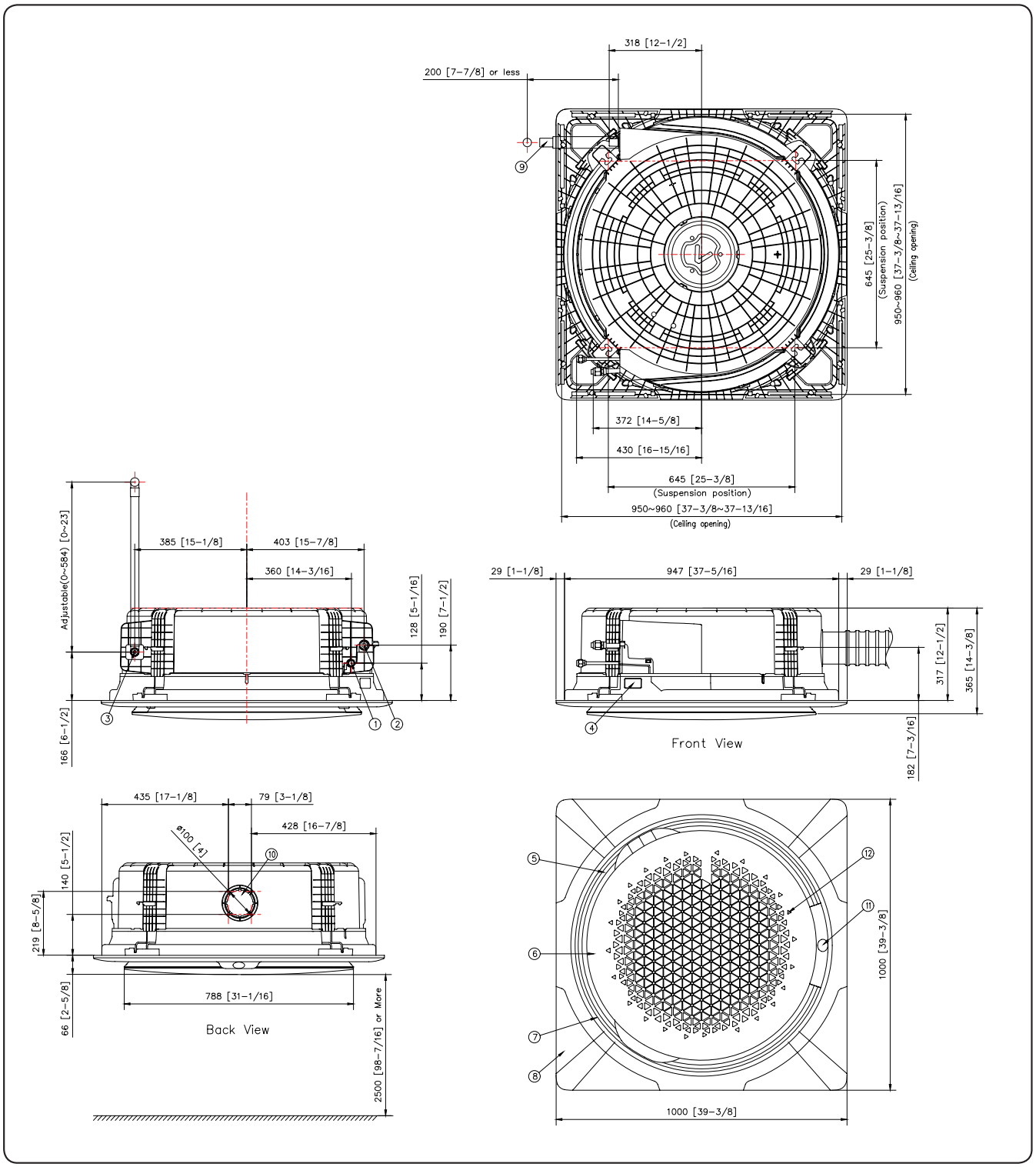
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

4. Dimensional Drawing

360 Cassette (Square)

AC071/100/120/140BN6PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

AC071/100/120/140BN6PKG/EU

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	

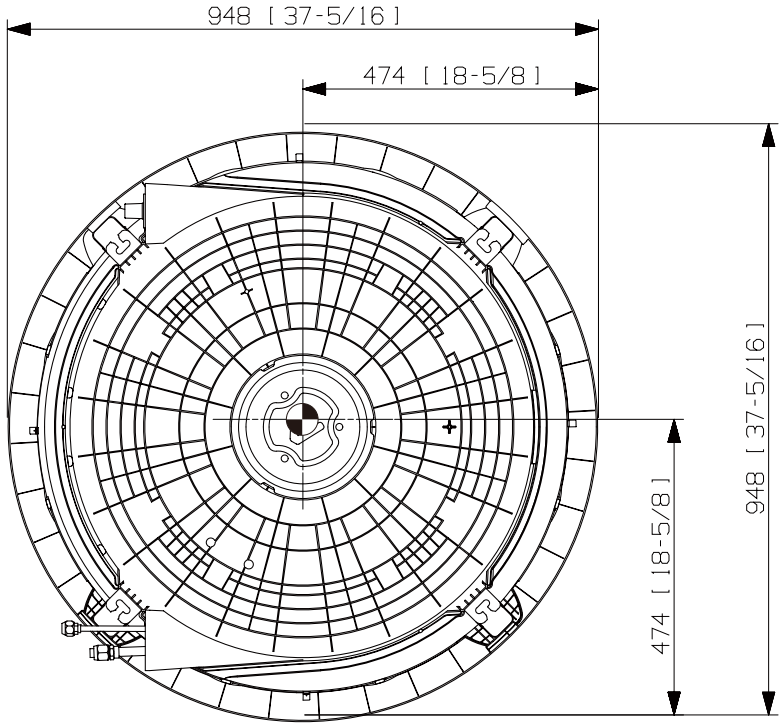
NOTE

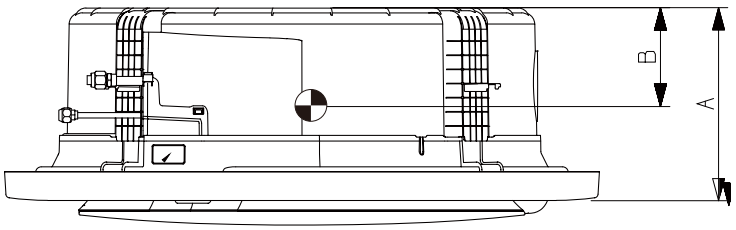
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

5. Center of Gravity

360 Cassette

Units : mm [inches]

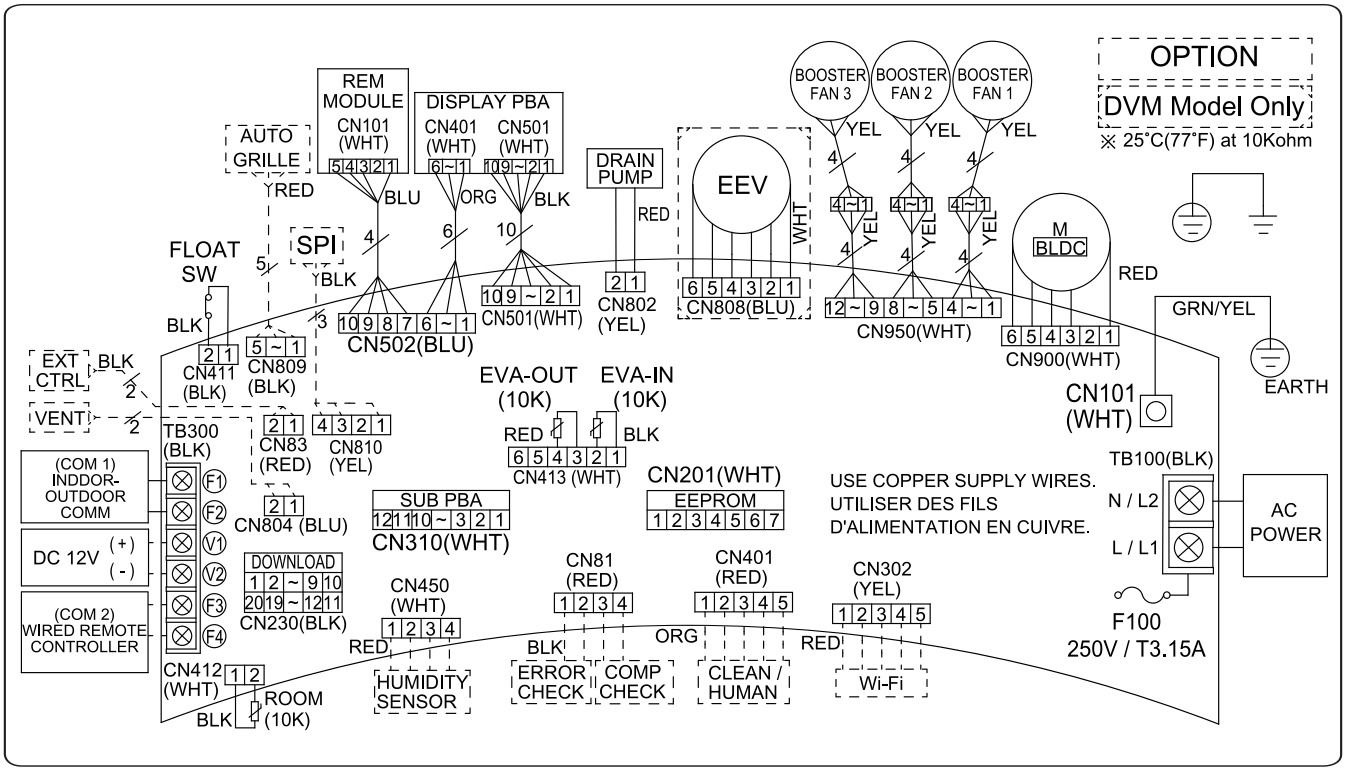




	A	B
5.2kW	233 [9-3/16]	165 [6-1/2]
7.1/10.0/12.0/14.0kW	217 [12-1/2]	220 [8-5/8]

6. Electrical Wiring Diagram

360 Cassette



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

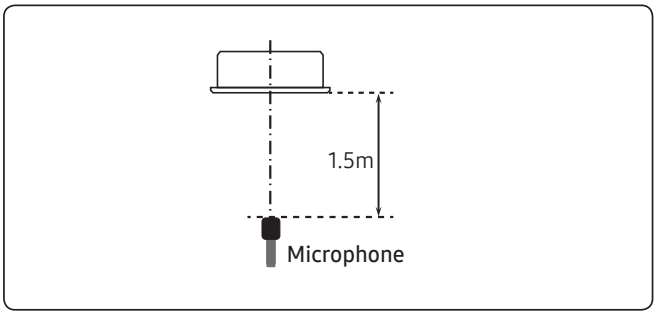
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ⊏⊐⊐⊐ : connector, N : The wire quantity

7. Sound Data

360 Cassette

Sound Pressure level

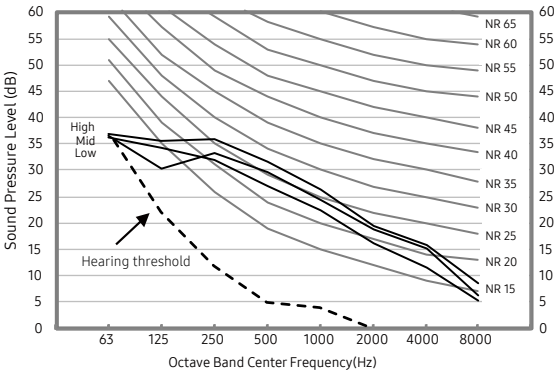
Unit: dB(A)



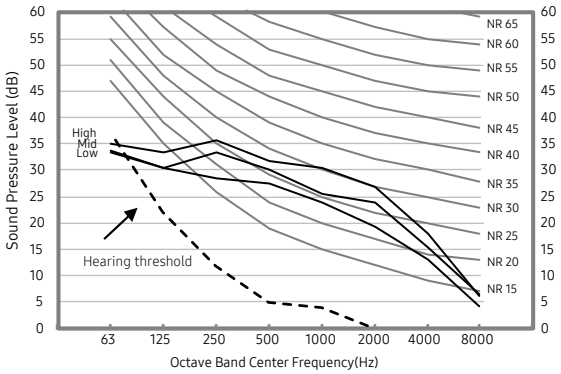
Model	High	Mid	Low
AC052BN6PKG/EU	33	31	29
AC071BN6PKG/EU	35	32	29

- NR Curve

1) AC052BN6PKG/EU



2) AC071BN6PKG/EU



NOTE

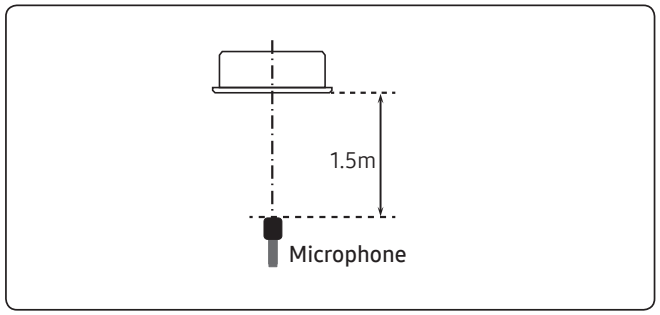
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

360 Cassette

Sound Pressure level

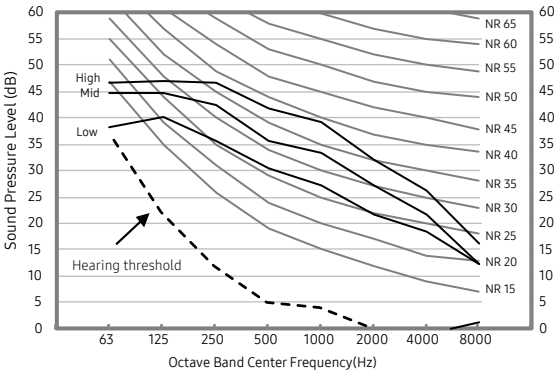
Unit: dB(A)



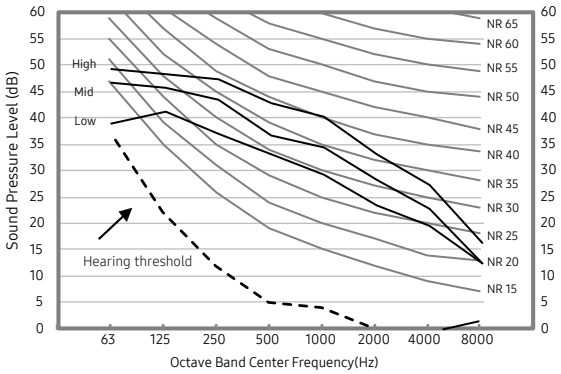
Model	High	Mid	Low
AC100BN6PKG/EU	44	39	33
AC120BN6PKG/EU	45	40	35
AC140BN6PKG/EU	45	41	37

- NR Curve

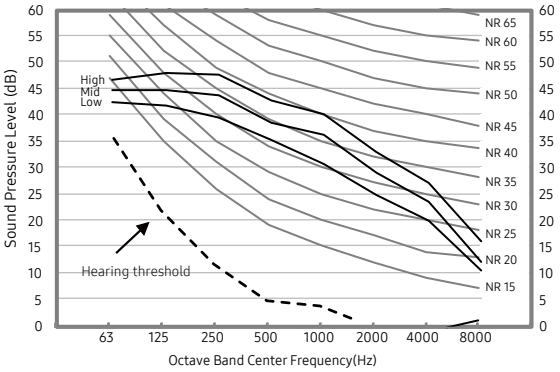
1) AC100BN6PKG/EU



2) AC120BN6PKG/EU



3) AC140BN6PKG/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

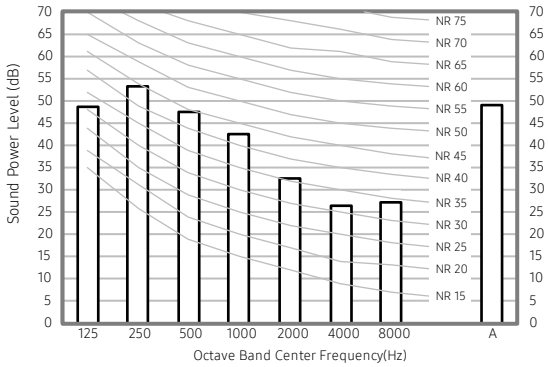
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

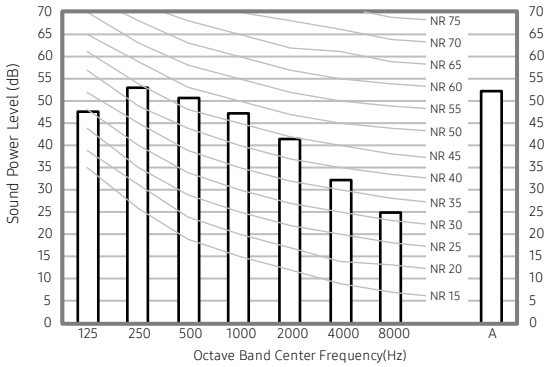
Model	Power
AC052BN6PKG/EU	49
AC071BN6PKG/EU	52

- NR Curve

1) AC052BN6PKG/EU



2) AC071BN6PKG/EU



7. Sound Data

360 Cassette

Sound Power level

NOTE

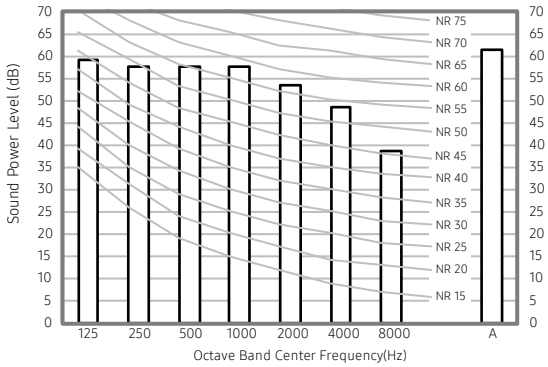
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

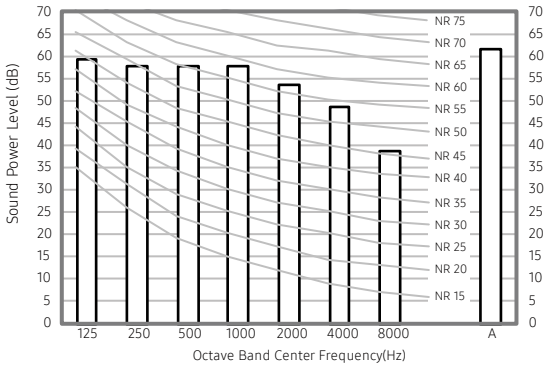
Model	Power
AC100BN6PKG/EU	61
AC120BN6PKG/EU	61
AC140BN6PKG/EU	62

- NR Curve

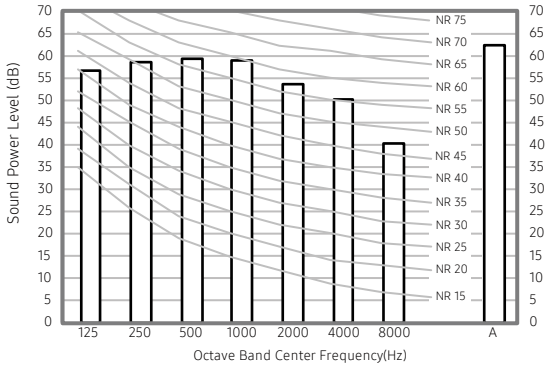
1) AC100BN6PKG/EU



2) AC120BN6PKG/EU



3) AC140BN6PKG/EU

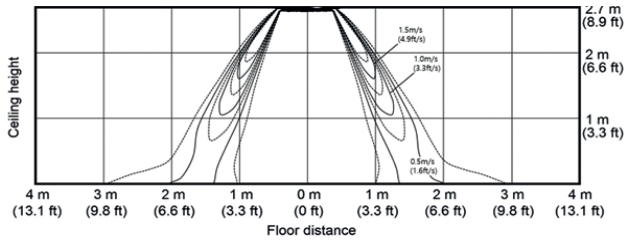


8.Temperature and air flow distribution

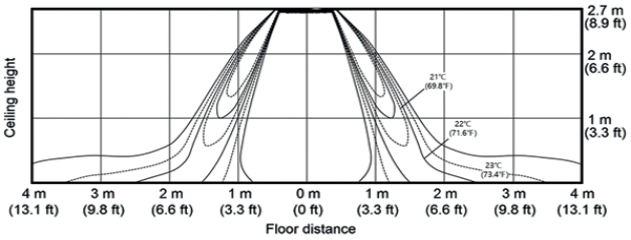
360 Cassette

AC052BN6PKG/EU

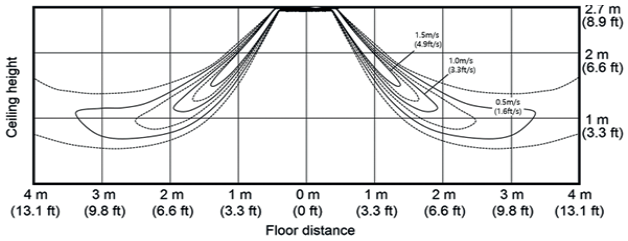
- Cooling Air Velocity distribution
  (Discharge angle : 60 degree)



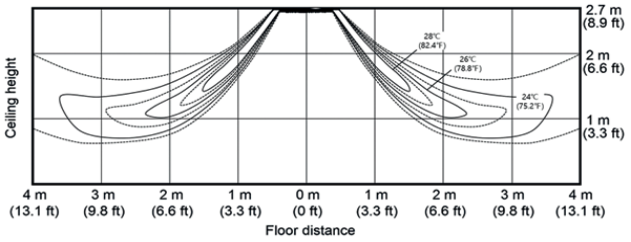
- Cooling temperature distribution
  (Discharge angle : 60 degree)



- Heating Air Velocity distribution
  (Discharge angle : 60 degree)

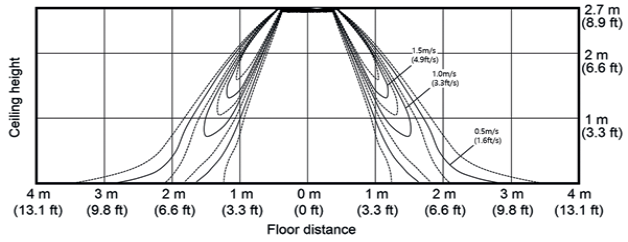


- Heating temperature distribution
  (Discharge angle : 60 degree)

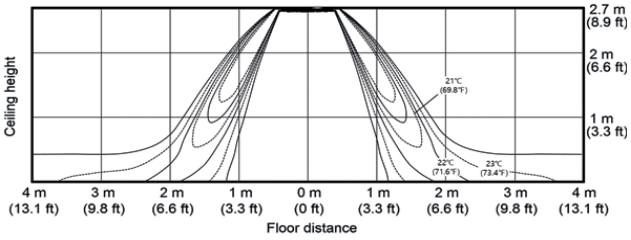


AC071BN6PKG/EU

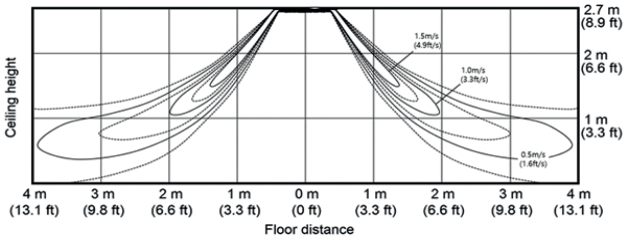
- Cooling Air Velocity distribution
  (Discharge angle : 60 degree)



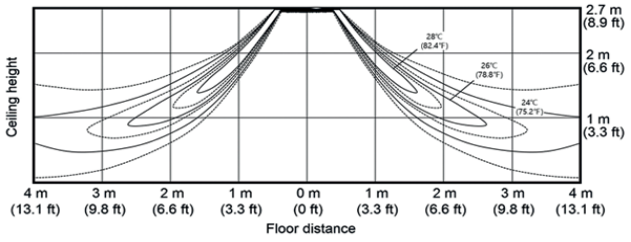
- Cooling temperature distribution
  (Discharge angle : 60 degree)



- Heating Air Velocity distribution
  (Discharge angle : 60 degree)



- Heating temperature distribution
  (Discharge angle : 60 degree)

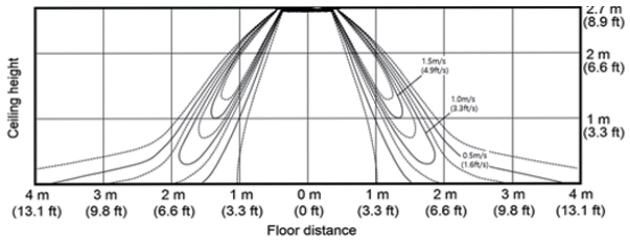


8.Temperature and air flow distribution

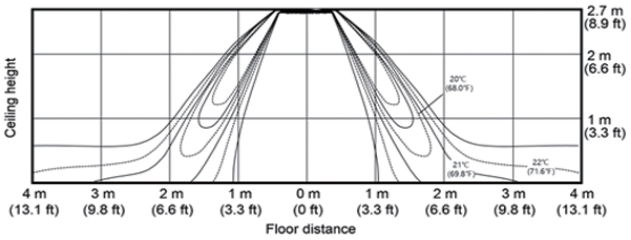
360 Cassette

AC100BN6PKG/EU

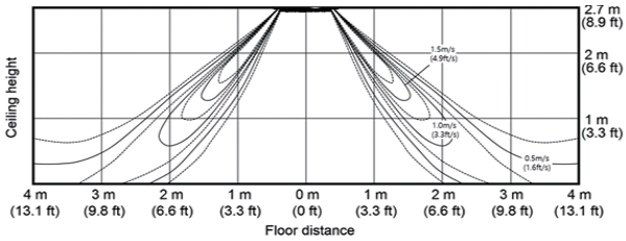
- Cooling Air Velocity distribution
  (Discharge angle : 60 degree)



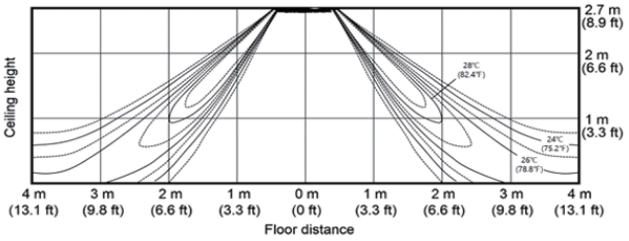
- Cooling temperature distribution
  (Discharge angle : 60 degree)



- Heating Air Velocity distribution
  (Discharge angle : 60 degree)

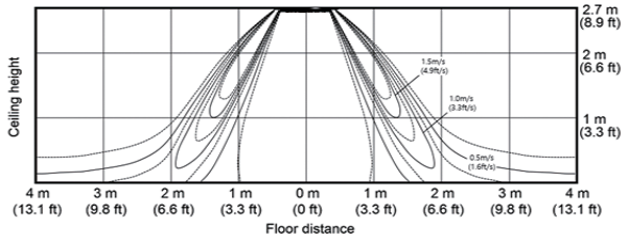


- Heating temperature distribution
  (Discharge angle : 60 degree)

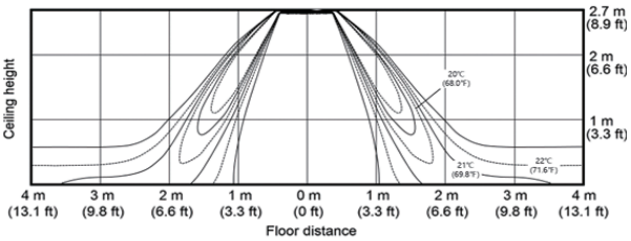


AC120BN6PKG/EU

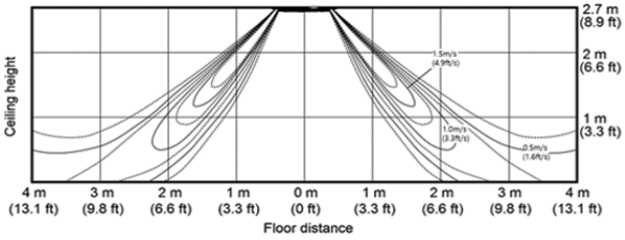
- Cooling Air Velocity distribution
  (Discharge angle : 60 degree)



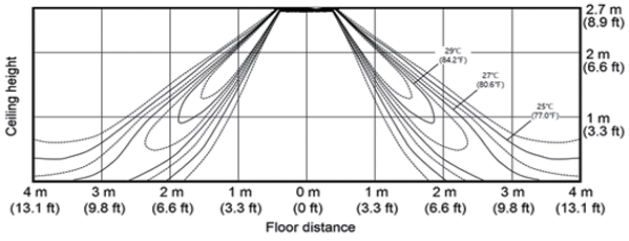
- Cooling temperature distribution
  (Discharge angle : 60 degree)



- Heating Air Velocity distribution
  (Discharge angle : 60 degree)



- Heating temperature distribution
  (Discharge angle : 60 degree)

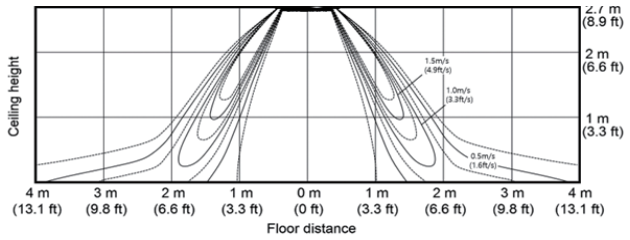


8.Temperature and air flow distribution

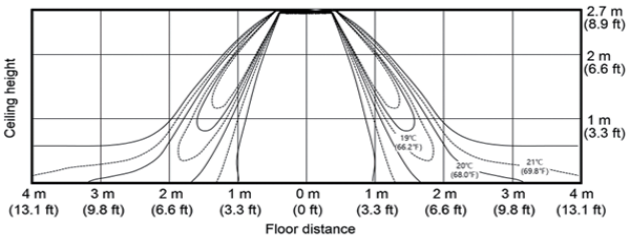
360 Cassette

AC140BN6PKG/EU

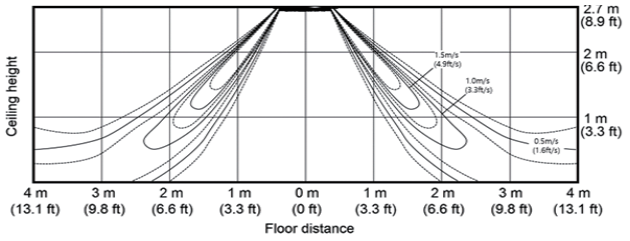
- Cooling Air Velocity distribution
  (Discharge angle : 60 degree)



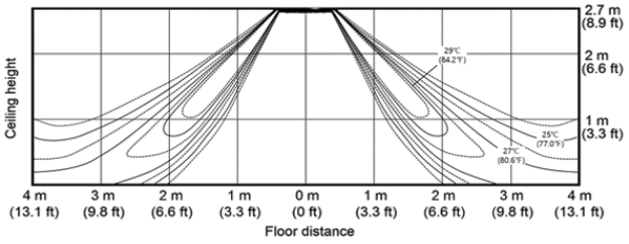
- Cooling temperature distribution
  (Discharge angle : 60 degree)



- Heating Air Velocity distribution
  (Discharge angle : 60 degree)



- Heating temperature distribution
  (Discharge angle : 60 degree)



MSP Duct

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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				AC035BNMPKG/EU	AC052BNMPKG/EU
		Outdoor Unit				AC035BXAPKG/EU	AC052BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	0.80 / 3.50 / 5.30	1.20 / 5.00 / 7.50
					Btu/h	2,730 / 11,940 / 18,080	4,090 / 17,060 / 25,590
			Heating		kW	0.78 / 4.00 / 5.70	1.10 / 6.00 / 9.50
					Btu/h	2,660 / 13,650 / 19,450	3,750 / 20,470 / 32,420
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.21 / 0.94 / 2.10	0.29 / 1.34 / 2.45
			Heating		kW	0.19 / 1.10 / 2.70	0.24 / 1.56 / 3.55
		Current Input (Min/Std/Max)	Cooling		A	1.4 / 4.5 / 9.2	1.9 / 6.2 / 10.8
			Heating		A	1.3 / 5.1 /11.9	1.6 / 7.1 /15.6
		Current	MCA		A	13.5	18.5
			MFA		A	15.0	20.0
	Efficiency	EER	Cooling		-	3.72	3.73
		COP	Heating		-	3.64	3.85
		SEER (Cooling Energy Grade)			-	7.0	7.0
		SCOP (Heating Energy Grade)			-	4.3	4.6
		Pdesignh			kW	2.3	4.0
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	12.7 (1/2)
		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	20	20
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.20	1.70
					tCO_2e	0.81	1.15
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Sirocco	Sirocco
		Quantity			EA	2	2
		Air Flow Rate	H/M/L		m^3/min	10.4 / 9.2 / 8.0	15.5 / 12.0 / 9.5
					l/s	173 / 153 / 133	258 / 200 / 158
		External Static Pressure	Min/Std/Max		mmAq	0.0 / 2.5 / 15.0	0.0 / 3.0 / 15.0
					Pa	0/25/147	0/30/147
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	153 X 1	153 X 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	28 / 25 / 22	29 / 26 / 23
		Sound Power Level			dB(A)	52	55
	External Dimension	Net Weight			kg	26.5	26.5
		Shipping Weight			kg	30.5	30.5
		Net Dimensions (WxHxD)			mm	850 x 250 x 700	850 x 250 x 700
		Shipping Dimensions (WxHxD)			mm	1,064 x 320 x 784	1,064 x 320 x 784
	Casing	Material			-	GI Steel Plate	GI Steel Plate

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit			AC035BNMPKG/EU	AC052BNMPKG/EU
		Outdoor Unit			AC035BXAPKG/EU	AC052BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	Optional	Optional
	Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP
			Internal Model	-	MDP-G075SQ	MDP-G075SQ
			Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24
		Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UB9TA8150FEQ	UB9TA9180FEQ
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.50	1.78
		Oil	Type	-	POE	POE
			Initial charge	cc	450	570
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	40	55
				l/s	667	917
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	47
			Heating	dB(A)	46	48
		Sound Power Level		dB(A)	61	63
	External Dimension	Net Weight		kg	43.0	50.0
		Shipping Weight		kg	46.5	54.0
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 896 x 413
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

MSP Duct

System	Model Name	Indoor Unit				AC071BNMPKG/EU	AC071BNMPKG/EU
		Outdoor Unit				AC071BXAPKG/EU	AC071BXAPNG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	2.20 / 6.80 / 9.50	2.20 / 6.80 / 9.50
					Btu/h	7,510 / 23,200 / 32,420	7,510 / 23,200 / 32,420
			Heating		kW	1.90 / 8.00 / 10.50	1.90 / 8.00 / 10.50
					Btu/h	6,480 / 27,300 / 35,830	6,480 / 27,300 / 35,830
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.49 / 1.69 / 3.30	0.49 / 1.69 / 3.30
			Heating		kW	0.38 / 2.11 /4.50	0.38 / 2.11 /4.50
		Current Input (Min/Std/Max)	Cooling		A	2.6 / 8.0 / 14.9	1.1 / 3.0 / 5.5
			Heating		A	2.7 / 9.8 / 19.8	0.8 / 3.6 / 7.3
		Current	MCA		A	22.5	18.6
			MFA		A	25.0	18.6
	Efficiency	EER	Cooling		-	4.02	4.02
		COP	Heating		-	3.79	3.79
		SEER (Cooling Energy Grade)			-	7.3	7.3
		SCOP (Heating Energy Grade)			-	4.3	4.3
		Pdesignh			kW	4.7	4.7
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	55	55
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	2.70	2.70
					tCO_2e	1.82	1.82
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Sirocco	Sirocco
		Quantity			EA	3	3
		Air Flow Rate	H/M/L		m^3/min	20.0 / 16.0 / 12.0	20.0 / 16.0 / 12.0
					l/s	333 / 267 / 200	333 / 267 / 200
		External Static Pressure	Min/Std/Max		mmAq	0.0 / 3.0 / 15.0	0.0 / 3.0 / 15.0
					Pa	0 / 30 / 147	0 / 30 / 147
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	153 X 1	153 X 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	30 / 27 / 24	30 / 27 / 24
		Sound Power Level			dB(A)	56	56
	External Dimension	Net Weight			kg	34.5	34.5
		Shipping Weight			kg	39.0	39.0
		Net Dimensions (WxHxD)			mm	1,200 x 250 x 700	1,200 x 250 x 700
		Shipping Dimensions (WxHxD)			mm	1,429 x 320 x 779	1,429 x 320 x 779
	Casing	Material			-	GI Steel Plate	GI Steel Plate

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit				AC071BNMPKG/EU	AC071BNMPKG/EU
		Outdoor Unit				AC071BXAPKG/EU	AC071BXAPNG/EU
	Control System	Infrared remote control			-	AR-EH04E	AR-EH04E
		Wired remote control			-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump			-	Optional	Optional
	Additional Accessories	Drain Pump		External Model	-	MDP-G075SP	MDP-G075SP
				Internal Model	-	MDP-G075SQ	MDP-G075SQ
				Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24
		Air Filter			-	Removable / Washable	Removable / Washable
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			-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name				UB8TN8300FJU	UB8TN8300FJU
		Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Output			kW	2.91	2.91
		Oil		Type	-	POE	POE
				Initial charge	cc	1,200	1,200
	Fan	Type			-	Propeller	Propeller
		Discharge direction			-	Side	Side
		Quantity			EA	1	1
		Air Flow Rate			m^3/min	72	72
					l/s	1,200	1,200
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level		Cooling	dB(A)	47	47
				Heating	dB(A)	49	49
		Sound Power Level			dB(A)	64	64
	External Dimension	Net Weight			kg	75.0	74.0
		Shipping Weight			kg	80.0	79.0
		Net Dimensions (WxHxD)			mm	940 x 998 x 330	940 x 998 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1,096 x 426	995 x 1,096 x 426
	Casing	Material		Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling			℃	-20 ~ 52	-20 ~ 52
		Heating			℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

MSP Duct

System	Model Name	Indoor Unit				AC100BNMPKG/EU	AC100BNMPKG/EU
		Outdoor Unit				AC100BXAPKG/EU	AC100BXAPNG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	4.00 / 10.00 / 12.80	4.00 / 10.00 / 12.80
					Btu/h	13,640 / 34,120 / 43,670	13,640 / 34,120 / 43,670
			Heating		kW	3.10 / 11.20 / 17.30	3.10 / 11.20 / 17.30
					Btu/h	10,570 / 38,210 / 59,030	10,570 / 38,210 / 59,030
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.73 / 2.46 / 3.60	0.73 / 2.46 / 3.60
			Heating		kW	0.62 / 2.75 / 6.20	0.62 / 2.75 / 6.20
		Current Input (Min/Std/Max)	Cooling		A	3.9 / 11.2 / 15.9	1.5 / 3.8 / 5.5
			Heating		A	3.2 / 12.4 / 27.2	1.4 / 4.3 / 9.1
		Current	MCA		A	30.5	18.6
			MFA		A	35.0	18.6
	Efficiency	EER	Cooling		-	4.07	4.07
		COP	Heating		-	4.07	4.07
		SEER (Cooling Energy Grade)			-	7.6	7.6
		SCOP (Heating Energy Grade)			-	4.4	4.4
		Pdesignh			kW	7.8	7.8
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	85	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	3.50	3.50
					tCO_2e	2.36	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Sirocco	Sirocco
		Quantity			EA	3	3
		Air Flow Rate	H/M/L		m^3/min	30.6 / 26.2 / 21.8	30.6 / 26.2 / 21.8
					l/s	510 / 437 / 363	510 / 437 / 363
		External Static Pressure	Min/Std/Max		mmAq	0.0 / 4.0 / 15.0	0.0 / 4.0 / 15.0
					Pa	0.0 / 39.2 / 147.1	0.0 / 39.2 / 147.1
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	244 X 1	244 X 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	34 / 32 / 30	34 / 32 / 30
		Sound Power Level			dB(A)	58	58
	External Dimension	Net Weight			kg	38.5	38.5
		Shipping Weight			kg	45.0	45.0
		Net Dimensions (WxHxD)			mm	1,300 x 300 x 700	1,300 x 300 x 700
		Shipping Dimensions (WxHxD)			mm	1,529 x 370 x 779	1,529 x 370 x 779
	Casing	Material			-	GI Steel plate	GI Steel plate

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit				AC100BNMPKG/EU	AC100BNMPKG/EU
		Outdoor Unit				AC100BXAPKG/EU	AC100BXAPNG/EU
	Control System	Infrared remote control			-	AR-EH04E	AR-EH04E
		Wired remote control			-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump			-	Optional	Optional
	Additional Accessories	Drain Pump		External Model	-	MDP-G075SP	MDP-G075SP
				Internal Model	-	MDP-G075SQ	MDP-G075SQ
				Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24
		Air Filter			-	Removalble / Washable	Removalble / Washable
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			-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name				ATQ420D1UNT1	UB8TN8300FJU
		Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Output			kW	3.44	2.91
		Oil		Type	-	POE	POE
				Initial charge	cc	1,500	1,200
	Fan	Type			-	Propeller	Propeller
		Discharge direction			-	Side	Side
		Quantity			EA	1	1
		Air Flow Rate			m^3/min	125	125
					l/s	2,083	2,083
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level		Cooling	dB(A)	47	47
				Heating	dB(A)	50	50
		Sound Power Level			dB(A)	66	66
	External Dimension	Net Weight			kg	100.0	100.0
		Shipping Weight			kg	110.0	110.0
		Net Dimensions (WxHxD)			mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1,598 x 426	995 x 1,598 x 426
	Casing	Material		Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling			℃	-20 ~ 52	-20 ~ 52
		Heating			℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

MSP Duct

System	Model Name	Indoor Unit				AC120BNMPKG/EU	AC140BNMPKG/EU
		Outdoor Unit				AC120BXAPNG/EU	AC140BXAPNG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	4.10 / 12.10 / 14.00	4.10 / 13.40 / 16.00
					Btu/h	13,980 / 41,280 / 47,760	13,980 / 45,720 / 54,590
			Heating		kW	3.10 / 13.20 / 22.00	3.10 / 15.50 / 24.00
					Btu/h	10,570 / 45,040 / 75,060	10,570 / 52,880 / 81,890
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.78 / 3.25 / 4.35	0.78 / 3.85 / 5.10
			Heating		kW	0.62 / 3.30 / 7.30	0.62 / 4.27 / 8.10
		Current Input (Min/Std/Max)	Cooling		A	1.6 / 5.1 / 6.7	1.6 / 6.0 / 7.8
			Heating		A	1.4 / 5.2 / 11.2	1.4 / 6.6 / 11.9
		Current	MCA		A	18.6	18.6
			MFA		A	18.6	18.6
	Efficiency	EER	Cooling		-	3.72	3.48
		COP	Heating		-	4.00	3.63
		SEER (Cooling Energy Grade)			-	7.4	7.1
		SCOP (Heating Energy Grade)			-	4.4	4.4
		Pdesignh			kW	9.5	9.5
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	85	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	3.50	3.50
					tCO_2e	2.36	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Sirocco	Sirocco
		Quantity			EA	3	3
		Air Flow Rate	H/M/L		m^3/min	33.2 / 27.2 / 21.2	33.2 / 27.2 / 21.2
					l/s	553 / 453 / 353	553 / 453 / 353
		External Static Pressure	Min/Std/Max		mmAq	0.0 / 5.2 / 15.0	0.0 / 5.2 / 15.0
					Pa	0.0 / 51.0 / 147.1	0.0 / 51.0 / 147.1
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	244 X 1	244 X 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	37 / 34 / 30	37 / 34 / 30
		Sound Power Level			dB(A)	62	62
	External Dimension	Net Weight			kg	38.5	38.5
		Shipping Weight			kg	45.0	45.0
		Net Dimensions (WxHxD)			mm	1,300 x 300 x 700	1,300 x 300 x 700
		Shipping Dimensions (WxHxD)			mm	1,529 x 370 x 779	1,529 x 370 x 779
	Casing	Material			-	GI Steel plate	GI Steel plate

1. Specification

MSP Duct

Indoor Unit	Model Name	Indoor Unit				AC120BNMPKG/EU	AC140BNMPKG/EU
		Outdoor Unit				AC120BXAPNG/EU	AC140BXAPNG/EU
	Control System	Infrared remote control			-	AR-EH04E	AR-EH04E
		Wired remote control			-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump			-	Optional	Optional
	Additional Accessories	Drain Pump		External Model	-	MDP-G075SP	MDP-G075SP
				Internal Model	-	MDP-G075SQ	MDP-G075SQ
				Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24
		Air Filter			-	Removalble / Washable	Removalble / Washable
Outdoor Unit	Power Supply				Ø, #, V, Hz	3,4,380~415,50	3,4,380~415,50
	Heat Exchanger	Type			-	Fin & Tube	Fin & Tube
		Material		Fin	-	Al	Al
				Tube	-	Cu	Cu
		Fin Treatment			-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name				UB8TN8300FJU	UB8TN8300FJU
		Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Output			kW	2.91	2.91
		Oil		Type	-	POE	POE
				Initial charge	cc	1,200	1,200
	Fan	Type			-	Propeller	Propeller
		Discharge direction			-	Side	Side
		Quantity			EA	1	1
		Air Flow Rate			m^3/min	125	125
					l/s	2,083	2,083
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level		Cooling	dB(A)	49	50
				Heating	dB(A)	52	52
		Sound Power Level			dB(A)	69	70
	External Dimension	Net Weight			kg	100.0	100.0
		Shipping Weight			kg	110.0	110.0
		Net Dimensions (WxHxD)			mm	940 x 1,420 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)			mm	995 x 1,598 x 426	995 x 1,598 x 426
	Casing	Material		Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling			℃	-20 ~ 52	-20 ~ 52
		Heating			℃	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC035BNMPKG/EU	26.5	Max.	5.3	5.7	High	10.4	28	52
		Std.	3.5	4.0	Mid	9.2	25	-
		Min.	0.8	0.78	Low	8.0	22	-
AC052BNMPKG/EU	26.5	Max.	7.5	9.5	High	15.5	29	55
		Std.	5.0	6.0	Mid	12.0	26	-
		Min.	1.2	1.1	Low	9.5	23	-
AC071BNMPKG/EU	34.5	Max.	9.5	10.5	High	20.0	30	56
		Std.	6.8	8.0	Mid	16.0	27	-
		Min.	2.2	1.9	Low	12.0	24	-
AC100BNMPKG/EU	38.5	Max.	12.8	17.3	High	30.6	34	58
		Std.	10.0	11.2	Mid	26.2	32	-
		Min.	4.0	3.1	Low	21.8	30	-
AC120BNMPKG/EU	38.5	Max.	14.0	22.0	High	33.2	37	62
		Std.	12.1	13.2	Mid	27.2	34	-
		Min.	4.1	3.1	Low	21.2	30	-
AC140BNMPKG/EU	38.5	Max.	16.0	24.0	High	33.2	37	62
		Std.	13.4	15.5	Mid	27.2	34	-
		Min.	4.1	3.1	Low	21.2	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				
AC035BNMPKG/EU	AC035BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	2.5	13.5	13.5	15.0
AC052BNMPKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	2.5	18.5	18.5	20.0
AC071BNMPKG/EU	AC071BXAPKG/EU	50	220 to 240	198	264	20.0	20.0	2.5	22.5	22.5	25.0
AC071BNMPKG/EU	AC071BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC100BNMPKG/EU	AC100BXAPKG/EU	50	220 to 240	198	264	28.0	28.0	2.5	29.5	29.5	35.0
AC100BNMPKG/EU	AC100BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC120BNMPKG/EU	AC120BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	2.5	18.6	18.6	18.6
AC140BNMPKG/EU	AC140BXAPNG/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) AC035BNMPKG/EU + AC035BXAPKG/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
-20	3.91	3.01	1.12	4.11	3.10	1.14	4.29	3.20	1.16	4.42	3.30	1.19	4.51	3.27	1.20	4.73	3.23	1.21	4.97	3.17	1.23
21	3.87	2.86	1.15	4.07	2.95	1.17	4.24	3.04	1.20	4.38	3.13	1.22	4.46	3.10	1.23	4.69	3.07	1.25	4.92	3.01	1.27
35	3.10	2.41	0.88	3.26	2.48	0.90	3.40	2.56	0.92	3.50	2.64	0.94	3.57	2.61	0.95	3.75	2.59	0.96	3.94	2.53	0.98
46	3.25	2.48	2.48	3.42	2.56	2.53	3.56	2.63	2.58	3.68	2.72	2.63	3.75	2.69	2.66	3.94	2.66	2.68	4.13	2.61	2.74
52	2.17	1.90	1.55	2.28	1.96	1.58	2.38	2.02	1.61	2.45	2.08	1.65	2.50	2.06	1.66	2.62	2.04	1.68	2.76	2.00	1.71

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
-25	3.06	1.74	3.03	1.72	3.00	1.71	2.97	1.69	2.94	1.67	2.91	1.65
-15	4.28	2.81	4.24	2.78	4.20	2.75	4.16	2.72	4.12	2.70	4.08	2.67
-5	5.26	2.92	5.21	2.89	5.16	2.86	5.11	2.83	5.06	2.80	5.01	2.78
0	5.22	2.58	5.17	2.56	5.12	2.53	5.07	2.50	5.02	2.48	4.97	2.45
7	4.08	1.12	4.04	1.11	4.00	1.10	3.96	1.09	3.92	1.08	3.88	1.07
24	7.14	2.69	7.07	2.67	7.00	2.64	6.93	2.61	6.86	2.59	6.79	2.56

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(2) AC052BNMPKG/EU + AC052BXAPKG/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
-20	5.64	4.28	1.18	5.94	4.41	1.20	6.18	4.55	1.23	6.38	4.69	1.25	6.50	4.65	1.26	6.83	4.60	1.28	7.17	4.51	1.30
21	5.53	3.88	1.32	5.82	4.00	1.35	6.06	4.12	1.38	6.25	4.25	1.41	6.38	4.21	1.42	6.69	4.17	1.44	7.03	4.08	1.46
35	4.42	3.65	1.26	4.66	3.76	1.29	4.85	3.88	1.31	5.00	4.00	1.34	5.10	3.96	1.35	5.36	3.92	1.37	5.62	3.84	1.39
46	5.31	3.94	2.71	5.59	4.06	2.77	5.82	4.19	2.82	6.00	4.32	2.88	6.12	4.28	2.91	6.43	4.23	2.94	6.75	4.15	3.00
52	3.54	3.54	1.83	3.72	3.65	1.87	3.88	3.76	1.90	4.00	3.88	1.94	4.08	3.84	1.96	4.28	3.80	1.98	4.50	3.73	2.02

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
-25	3.55	1.91	3.51	1.89	3.48	1.87	3.45	1.85	3.41	1.83	3.38	1.82
-15	6.12	2.99	6.06	2.96	6.00	2.93	5.94	2.90	5.88	2.87	5.82	2.85
-5	7.53	3.26	7.45	3.23	7.38	3.20	7.31	3.17	7.23	3.13	7.16	3.10
0	7.47	2.78	7.39	2.76	7.32	2.73	7.25	2.70	7.17	2.68	7.10	2.65
7	6.12	1.59	6.06	1.58	6.00	1.56	5.94	1.54	5.88	1.53	5.82	1.51
24	10.10	2.63	10.00	2.60	9.90	2.57	9.80	2.55	9.70	2.52	9.61	2.50

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(3) AC071BNMPKG/EU + AC071BXAPKG/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
-20	7.05	5.45	1.41	7.42	5.62	1.44	7.73	5.80	1.47	7.97	5.98	1.50	8.13	5.92	1.52	8.53	5.86	1.53	8.96	5.74	1.56
21	6.98	4.88	1.61	7.35	5.03	1.64	7.65	5.19	1.67	7.89	5.35	1.71	8.05	5.30	1.72	8.45	5.24	1.74	8.87	5.14	1.78
35	6.02	4.95	1.59	6.33	5.11	1.62	6.60	5.26	1.66	6.80	5.43	1.69	6.94	5.37	1.71	7.28	5.32	1.72	7.65	5.21	1.76
46	6.02	4.90	2.62	6.33	5.05	2.68	6.60	5.21	2.73	6.80	5.37	2.79	6.94	5.32	2.82	7.28	5.27	2.84	7.65	5.16	2.90
52	4.21	4.34	2.07	4.43	4.48	2.11	4.62	4.62	2.15	4.76	4.76	2.20	4.86	4.71	2.22	5.10	4.67	2.24	5.35	4.57	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
-25	5.44	3.10	5.39	3.07	5.34	3.04	5.28	3.01	5.23	2.98	5.18	2.95
-15	9.38	4.69	9.29	4.65	9.20	4.60	9.11	4.55	9.02	4.51	8.93	4.46
-5	10.20	5.32	10.10	5.26	10.00	5.21	9.90	5.16	9.80	5.11	9.70	5.06
0	9.79	4.15	9.70	4.11	9.60	4.07	9.50	4.03	9.41	3.99	9.31	3.95
7	8.16	2.15	8.08	2.13	8.00	2.11	7.92	2.09	7.84	2.07	7.76	2.05
24	11.02	2.69	10.91	2.66	10.80	2.64	10.69	2.61	10.59	2.59	10.48	2.56

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(4) AC071BNMPKG/EU + AC071BXAPNG/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
-20	7.05	5.45	1.41	7.42	5.62	1.44	7.73	5.80	1.47	7.97	5.98	1.50	8.13	5.92	1.52	8.53	5.86	1.53	8.96	5.74	1.56
21	6.98	4.88	1.61	7.35	5.03	1.64	7.65	5.19	1.67	7.89	5.35	1.71	8.05	5.30	1.72	8.45	5.24	1.74	8.87	5.14	1.78
35	6.02	4.95	1.59	6.33	5.11	1.62	6.60	5.26	1.66	6.80	5.43	1.69	6.94	5.37	1.71	7.28	5.32	1.72	7.65	5.21	1.76
46	6.02	4.90	2.62	6.33	5.05	2.68	6.60	5.21	2.73	6.80	5.37	2.79	6.94	5.32	2.82	7.28	5.27	2.84	7.65	5.16	2.90
52	4.21	4.34	2.07	4.43	4.48	2.11	4.62	4.62	2.15	4.76	4.76	2.20	4.86	4.71	2.22	5.10	4.67	2.24	5.35	4.57	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
-25	5.44	3.10	5.39	3.07	5.34	3.04	5.28	3.01	5.23	2.98	5.18	2.95
-15	9.38	4.69	9.29	4.65	9.20	4.60	9.11	4.55	9.02	4.51	8.93	4.46
-5	10.20	5.32	10.10	5.26	10.00	5.21	9.90	5.16	9.80	5.11	9.70	5.06
0	9.79	4.15	9.70	4.11	9.60	4.07	9.50	4.03	9.41	3.99	9.31	3.95
7	8.16	2.15	8.08	2.13	8.00	2.11	7.92	2.09	7.84	2.07	7.76	2.05
24	11.02	2.69	10.91	2.66	10.80	2.64	10.69	2.61	10.59	2.59	10.48	2.56

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(5) AC100BNMPKG/EU + AC100BXAPKG/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
-20	10.56	8.39	2.17	11.11	8.65	2.21	11.58	8.91	2.26	11.93	9.19	2.30	12.17	9.10	2.33	12.78	9.01	2.35	13.42	8.83	2.40
21	10.35	8.22	2.23	10.90	8.48	2.28	11.35	8.74	2.33	11.70	9.01	2.37	11.93	8.92	2.40	12.53	8.83	2.42	13.16	8.65	2.47
35	8.85	7.40	2.32	9.31	7.63	2.36	9.70	7.86	2.41	10.00	8.11	2.46	10.20	8.02	2.48	10.71	7.94	2.51	11.25	7.79	2.56
46	8.05	6.80	3.01	8.47	7.01	3.07	8.83	7.23	3.13	9.10	7.45	3.20	9.28	7.38	3.23	9.75	7.30	3.26	10.23	7.16	3.33
52	6.55	6.35	2.13	6.89	6.54	2.17	7.18	6.75	2.22	7.40	6.96	2.26	7.55	6.89	2.29	7.93	6.82	2.31	8.32	6.68	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
-25	9.28	3.93	9.19	3.89	9.10	3.85	9.01	3.81	8.92	3.77	8.83	3.74
-15	13.26	4.64	13.13	4.60	13.00	4.55	12.87	4.51	12.74	4.46	12.61	4.42
-5	14.05	5.05	13.91	5.00	13.78	4.95	13.64	4.90	13.50	4.85	13.37	4.80
0	13.37	4.26	13.24	4.22	13.10	4.18	12.97	4.14	12.84	4.10	12.71	4.06
7	11.43	2.81	11.31	2.78	11.20	2.75	11.09	2.72	10.98	2.70	10.87	2.67
24	15.54	3.20	15.38	3.17	15.23	3.14	15.08	3.10	14.93	3.07	14.78	3.04

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(6) AC100BNMPKG/EU + AC100BXAPNG/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
-20	10.56	8.39	2.17	11.11	8.65	2.21	11.58	8.91	2.26	11.93	9.19	2.30	12.17	9.10	2.33	12.78	9.01	2.35	13.42	8.83	2.40
21	10.35	8.22	2.23	10.90	8.48	2.28	11.35	8.74	2.33	11.70	9.01	2.37	11.93	8.92	2.40	12.53	8.83	2.42	13.16	8.65	2.47
35	8.85	7.40	2.32	9.31	7.63	2.36	9.70	7.86	2.41	10.00	8.11	2.46	10.20	8.02	2.48	10.71	7.94	2.51	11.25	7.79	2.56
46	8.05	6.80	3.01	8.47	7.01	3.07	8.83	7.23	3.13	9.10	7.45	3.20	9.28	7.38	3.23	9.75	7.30	3.26	10.23	7.16	3.33
52	6.55	6.35	2.13	6.89	6.54	2.17	7.18	6.75	2.22	7.40	6.96	2.26	7.55	6.89	2.29	7.93	6.82	2.31	8.32	6.68	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
-25	9.28	3.93	9.19	3.89	9.10	3.85	9.01	3.81	8.92	3.77	8.83	3.74
-15	13.26	4.64	13.13	4.60	13.00	4.55	12.87	4.51	12.74	4.46	12.61	4.42
-5	14.05	5.05	13.91	5.00	13.78	4.95	13.64	4.90	13.50	4.85	13.37	4.80
0	13.37	4.26	13.24	4.22	13.10	4.18	12.97	4.14	12.84	4.10	12.71	4.06
7	11.43	2.81	11.31	2.78	11.20	2.75	11.09	2.72	10.98	2.70	10.87	2.67
24	15.54	3.20	15.38	3.17	15.23	3.14	15.08	3.10	14.93	3.07	14.78	3.04

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(7) AC120BNMPKG/EU + AC120BXAPNG/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
-20	12.77	9.33	2.86	13.45	9.62	2.92	14.01	9.91	2.98	14.44	10.22	3.04	14.73	10.12	3.07	15.47	10.02	3.10	16.24	9.82	3.17
21	12.52	9.14	2.95	13.18	9.43	3.01	13.73	9.72	3.07	14.16	10.02	3.14	14.44	9.92	3.17	15.16	9.82	3.20	15.92	9.62	3.26
35	10.70	8.23	3.06	11.27	8.48	3.12	11.74	8.74	3.19	12.10	9.01	3.25	12.34	8.92	3.28	12.96	8.84	3.32	13.61	8.66	3.38
46	9.74	7.56	3.98	10.25	7.80	4.06	10.68	8.04	4.14	11.01	8.29	4.23	11.23	8.20	4.27	11.79	8.12	4.31	12.38	7.96	4.40
52	7.06	6.85	2.81	7.44	7.06	2.87	7.75	7.28	2.93	7.99	7.51	2.99	8.15	7.43	3.02	8.55	7.36	3.05	8.98	7.21	3.11

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
-25	10.00	4.71	9.90	4.67	9.80	4.62	9.70	4.57	9.60	4.53	9.51	4.48
-15	14.28	5.57	14.14	5.52	14.00	5.46	13.86	5.41	13.72	5.35	13.58	5.30
-5	16.56	6.06	16.40	6.00	16.24	5.94	16.07	5.88	15.91	5.82	15.75	5.76
0	15.75	5.12	15.60	5.07	15.44	5.02	15.29	4.97	15.14	4.92	14.99	4.87
7	13.47	3.37	13.33	3.33	13.20	3.30	13.07	3.27	12.94	3.23	12.81	3.20
24	18.31	3.84	18.13	3.80	17.95	3.76	17.77	3.72	17.59	3.69	17.42	3.65

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(8) AC140BNMPKG/EU + AC140BXAPNG/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
-20	14.15	9.96	3.39	14.89	10.26	3.46	15.51	10.58	3.53	15.99	10.91	3.60	16.31	10.80	3.64	17.13	10.69	3.68	17.98	10.48	3.75
21	13.87	9.76	3.50	14.60	10.06	3.57	15.21	10.37	3.64	15.68	10.69	3.72	15.99	10.59	3.75	16.79	10.48	3.79	17.63	10.27	3.87
35	11.85	8.78	3.62	12.48	9.05	3.70	13.00	9.33	3.77	13.40	9.62	3.85	13.67	9.52	3.89	14.35	9.43	3.93	15.07	9.24	4.01
46	10.79	8.07	4.71	11.36	8.32	4.81	11.83	8.58	4.90	12.19	8.84	5.01	12.44	8.75	5.06	13.06	8.67	5.11	13.71	8.49	5.21
52	7.82	7.59	3.33	8.24	7.82	3.40	8.58	8.06	3.47	8.84	8.31	3.54	9.02	8.23	3.58	9.47	8.15	3.61	9.95	7.98	3.69

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
-25	10.35	6.10	10.25	6.04	10.15	5.98	10.05	5.92	9.95	5.86	9.85	5.80
-15	14.79	7.21	14.65	7.14	14.50	7.07	14.36	7.00	14.21	6.93	14.07	6.86
-5	19.45	7.84	19.26	7.76	19.07	7.69	18.87	7.61	18.69	7.53	18.50	7.46
0	18.50	6.62	18.32	6.56	18.14	6.49	17.95	6.43	17.77	6.36	17.60	6.30
7	15.81	4.36	15.66	4.31	15.50	4.27	15.35	4.23	15.19	4.19	15.04	4.14
24	21.50	4.97	21.29	4.92	21.08	4.87	20.87	4.82	20.66	4.77	20.45	4.72

NOTE

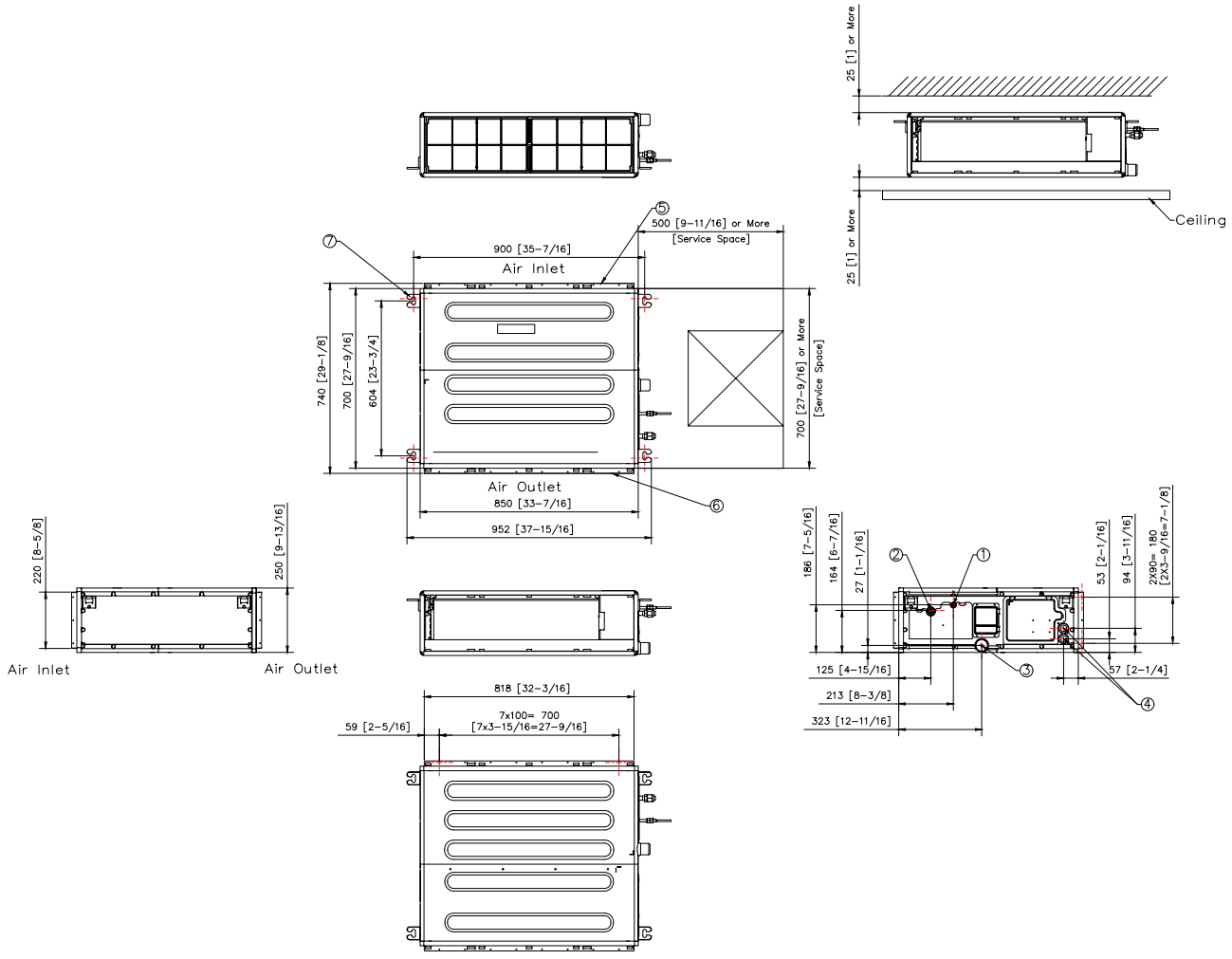
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

MSP Duct

AC035/052BNMPKG/EU

Units : mm [inches]



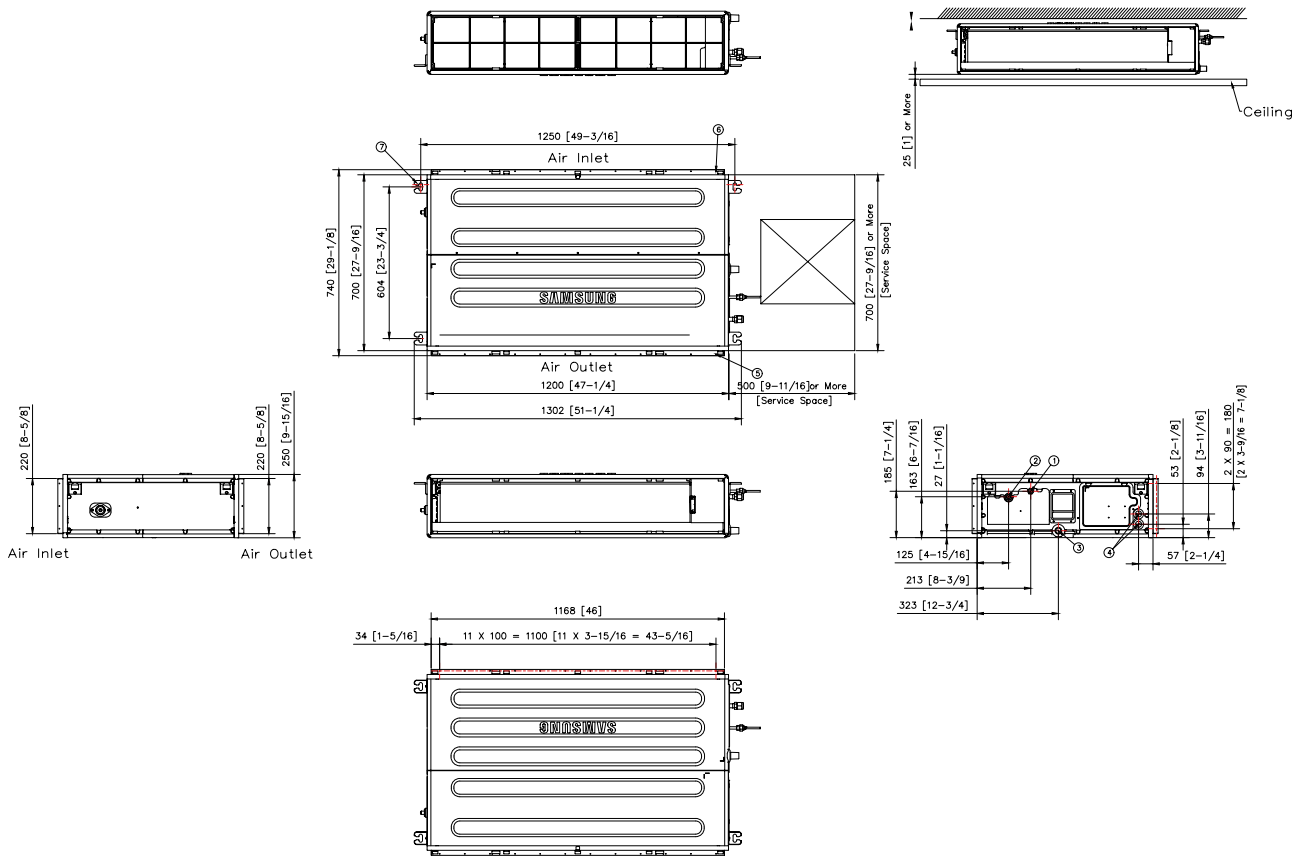
No.	Name	Description	
		AC035BNMPKG/EU	AC052BNMPKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit		
5	Air suction flange		
6	Air discharge flange		
7	Hook	Use M8~M10 bolt(4ea)	

4. Dimensional Drawing

MSP Duct

AC071BNMPKG/EU

Units : mm [inches]



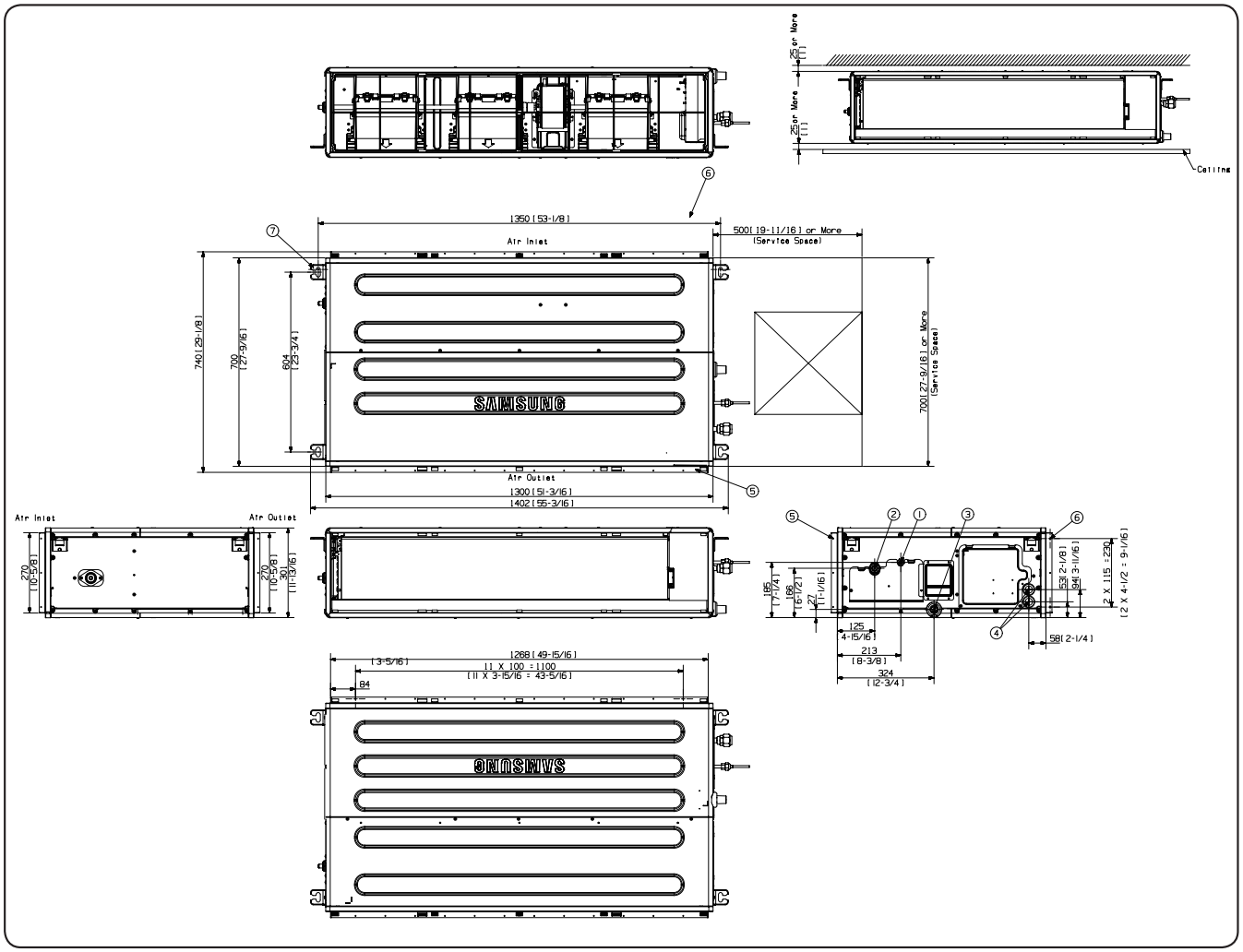
No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8~M10 bolt(4ea)

4. Dimensional Drawing

MSP Duct

AC100/120/140BNMPKG/EU

Units : mm [inches]

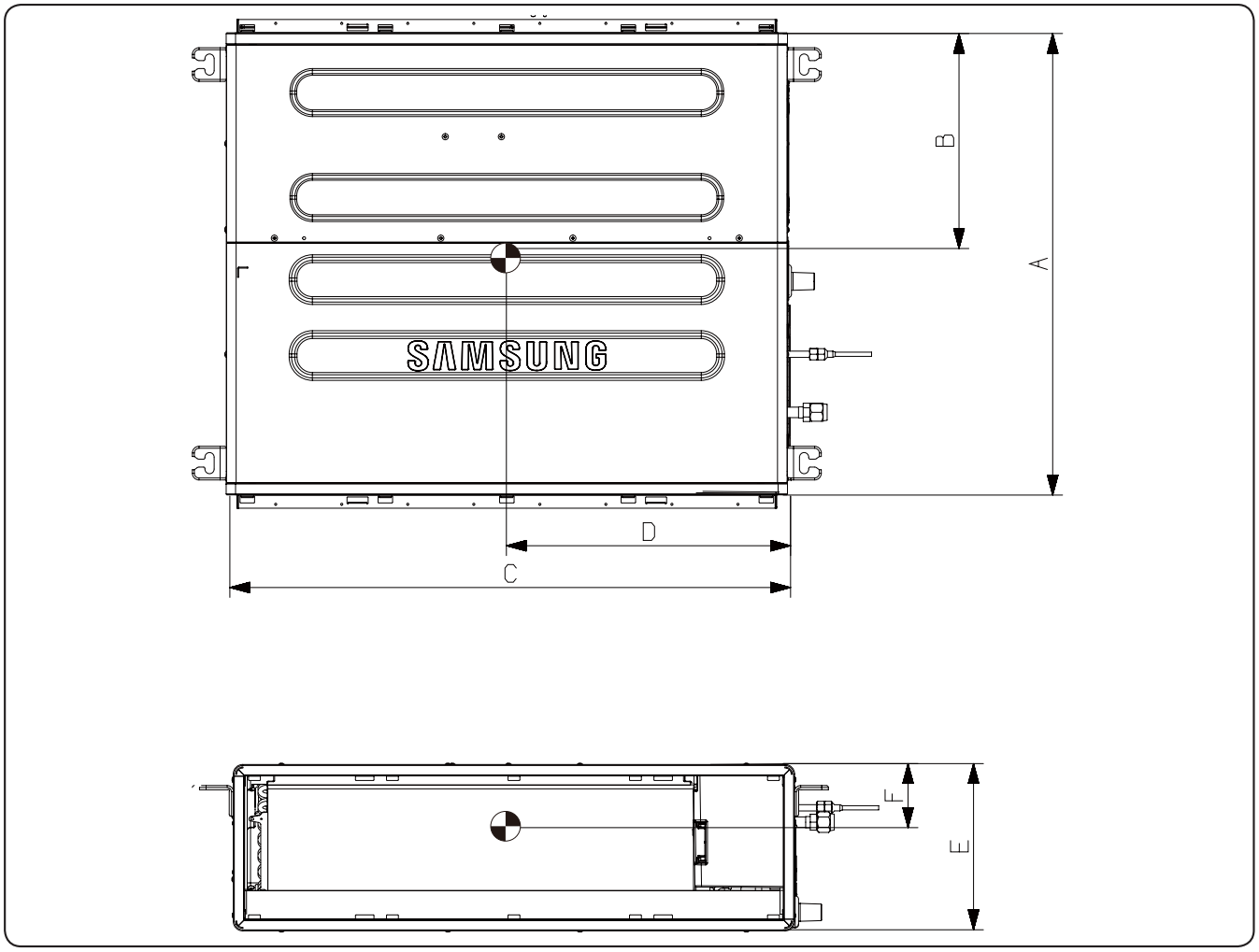


No.	Name	Description
1	Liquid pipe connection	Φ9.52(3/8)
2	Gas pipe connection	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8~M10 bolt(4ea)

5. Center of Gravity

MSP Duct

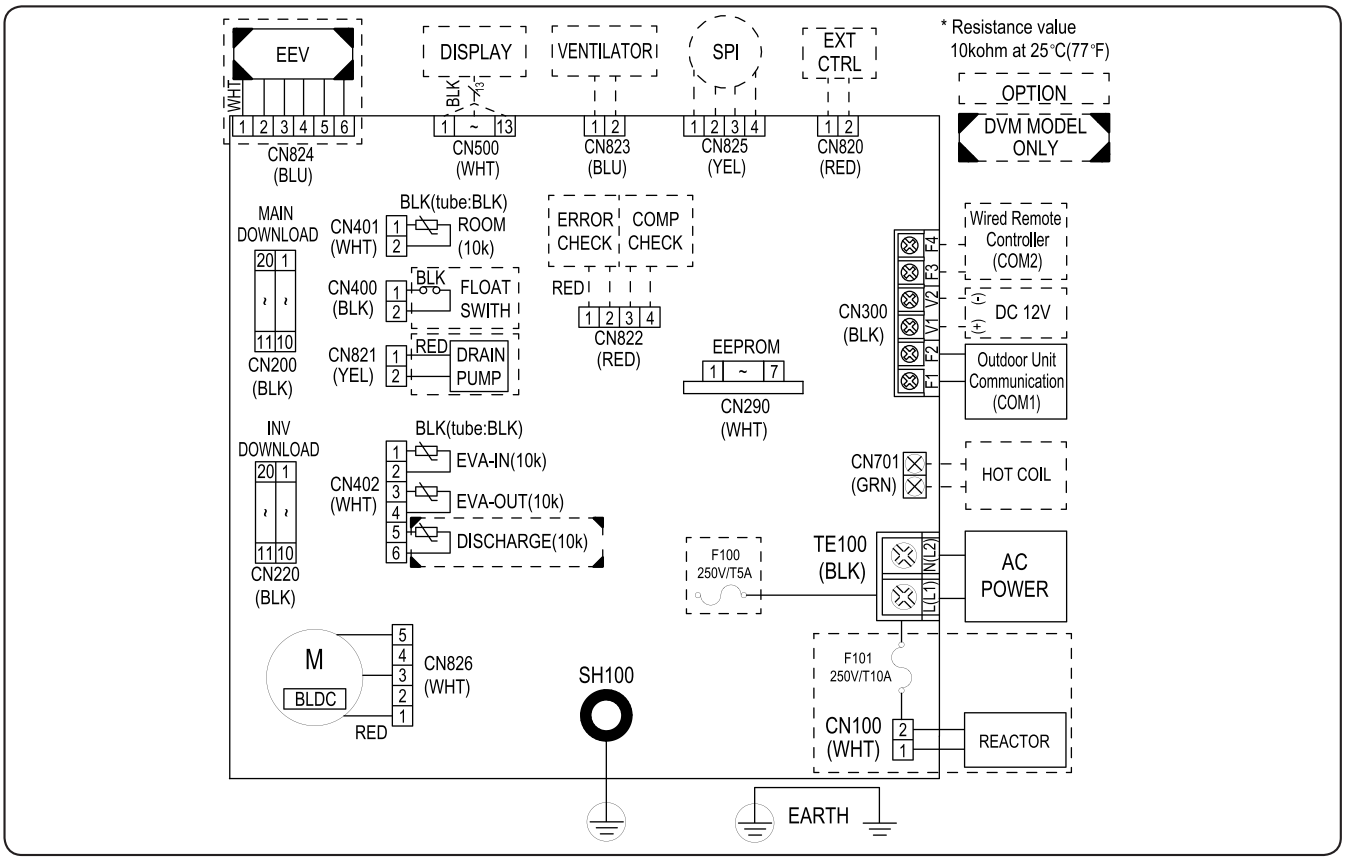
Units : mm [inches]



	A	B	C	D	E	F
3.5~7.1kW	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	252 [9-15/16]	125 [4-15/16]
~10.0~14.0kW	700 [27-9/16]	265 [10-7/16]	1300 [51-3/16]	650 [25-5/8]	300 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram

MSP Duct



MAIN PBA	Printed Circuit Board(MAIN)	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)
SPI	S-Plasma ion	ROOM(10K)	Thermistor ROOM OUT(10K)	DISCHARGE(10K)	Thermistor DISCHARGE(10K)

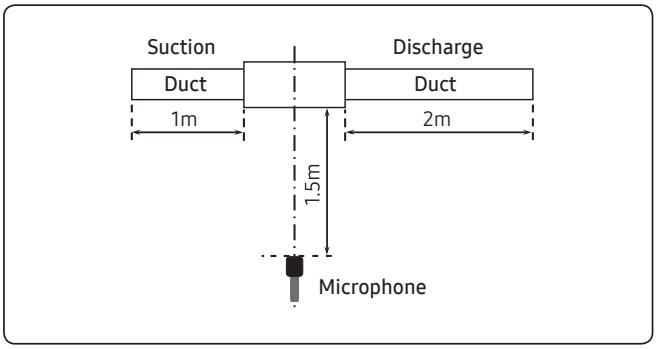
NOTE

- 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

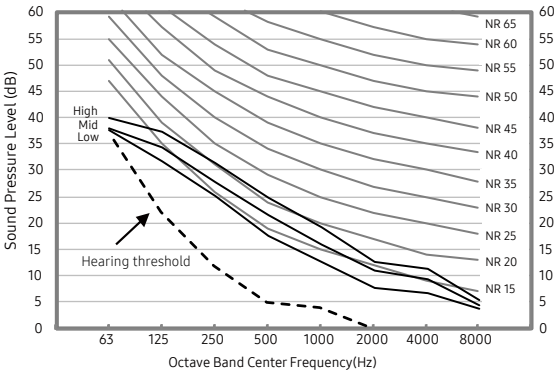


Unit: dB(A)

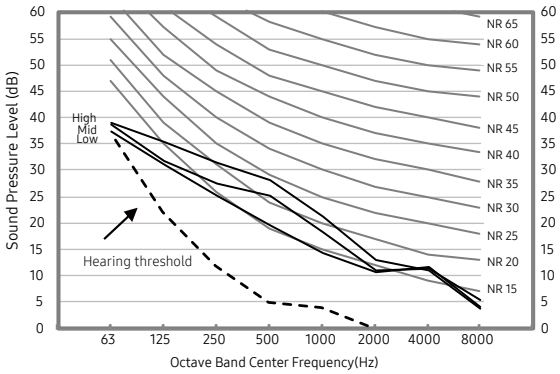
Model	High	Mid	Low
AC035BNMPKG/EU	28	25	22
AC052BNMPKG/EU	29	26	23
AC071BNMPKG/EU	30	27	24

- NR Curve

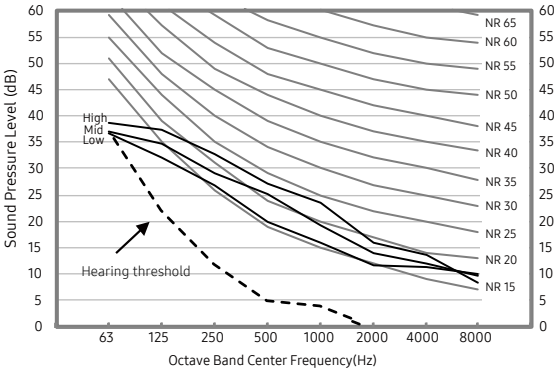
1) AC035BNMPKG/EU



2) AC052BNMPKG/EU



3) AC071BNMPKG/EU

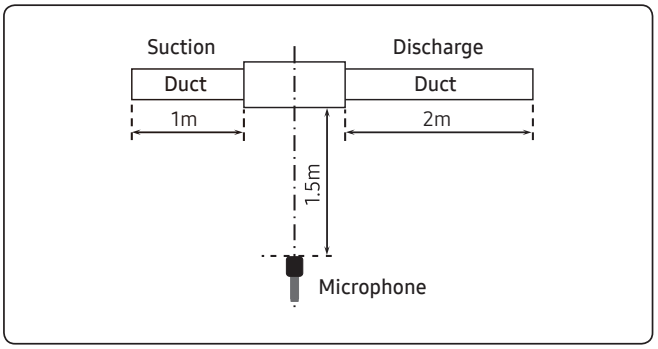


7. Sound Data

MSP Duct

Sound Pressure level

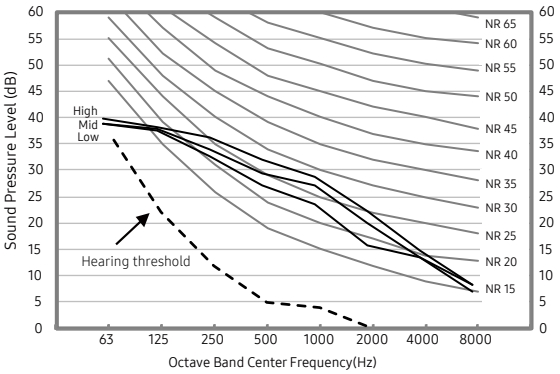
Unit: dB(A)



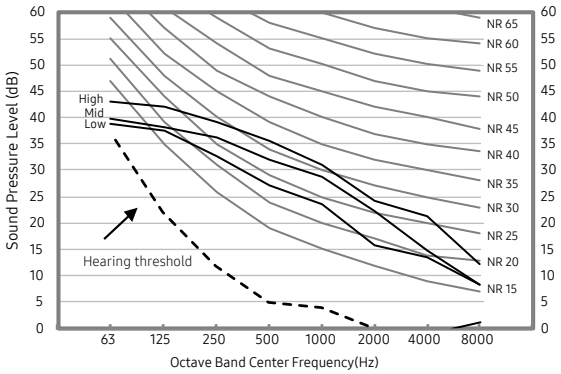
Model	High	Mid	Low
AC100BNMPKG/EU	34	32	30
AC120BNMPKG/EU	37	34	30
AC140BNMPKG/EU	37	34	30

- NR Curve

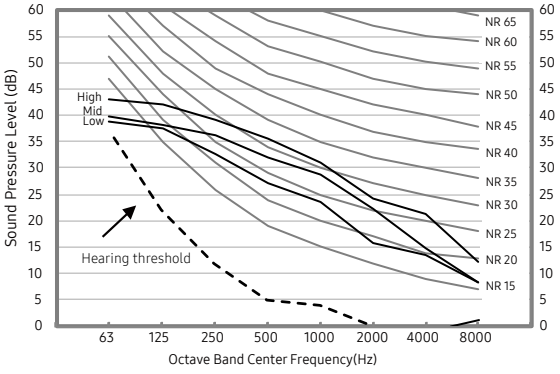
1) AC100BNMPKG/EU



2) AC120BNMPKG/EU



3) AC140BNMPKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

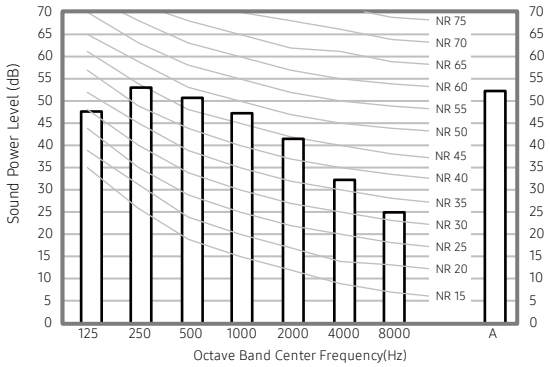
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

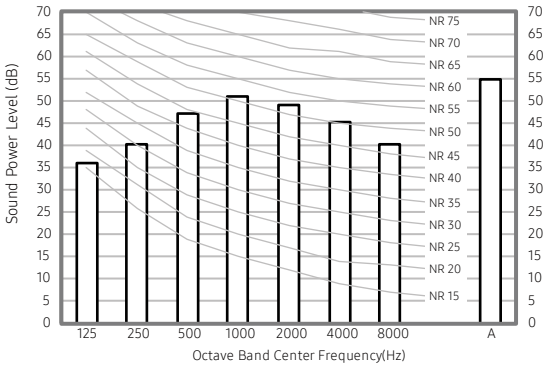
Model	Power
AC035BNMPKG/EU	52
AC052BNMPKG/EU	55
AC071BNMPKG/EU	56

- NR Curve

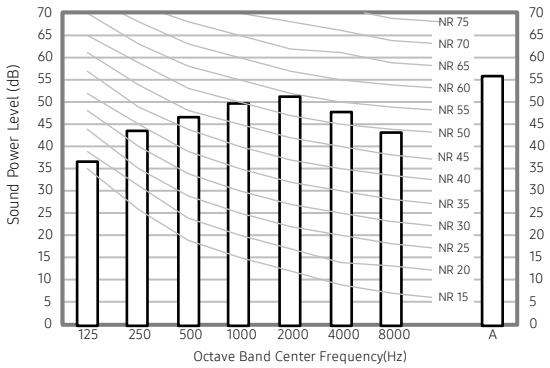
1) AC035BNMPKG/EU



2) AC052BNMPKG/EU



3) AC071BNMPKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

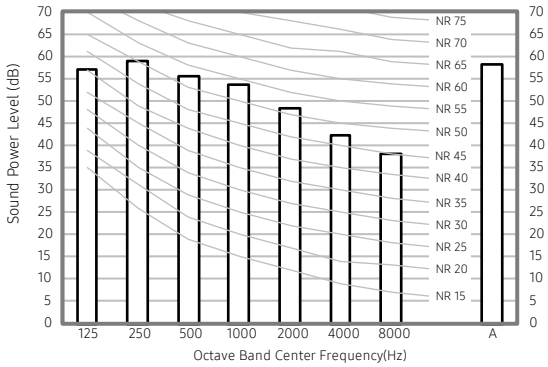
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

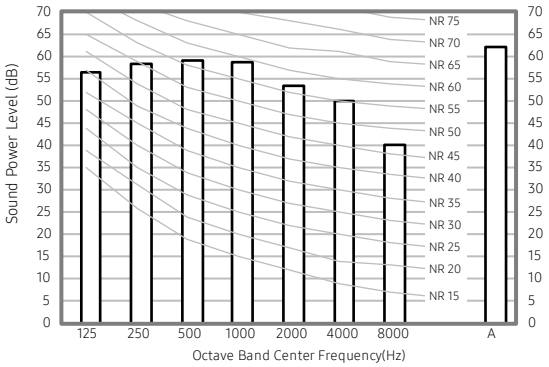
Model	Power
AC100BNMPKG/EU	58
AC120BNMPKG/EU	62
AC140BNMPKG/EU	62

- NR Curve

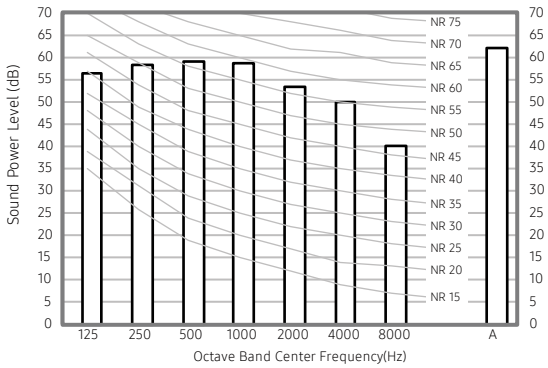
1) AC100BNMPKG/EU



2) AC120BNMPKG/EU



3) AC140BNMPKG/EU

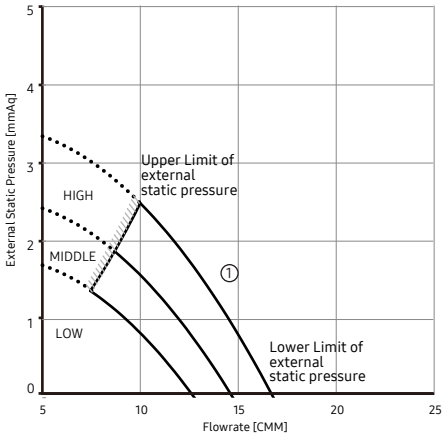


8. Fan Characteristics

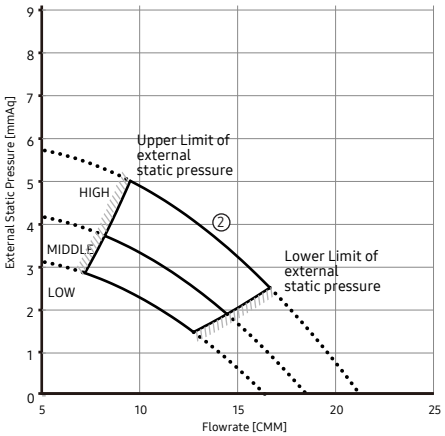
MSP Duct

1) AC035BNMPKG/EU

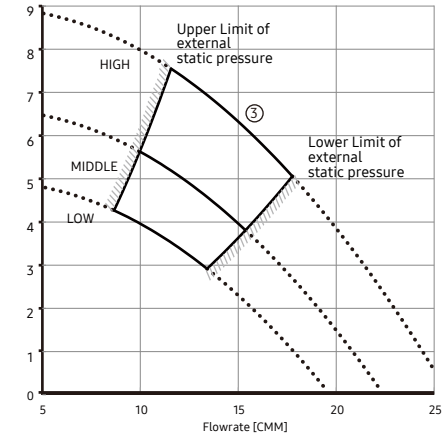
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5mmAq	01B36C-1C5080-272328-370000



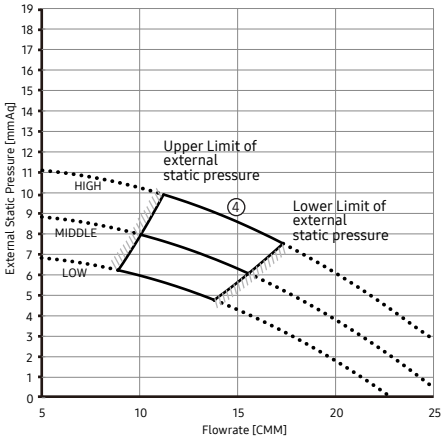
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5mmAq	01B36C-1C5407-272328-370000



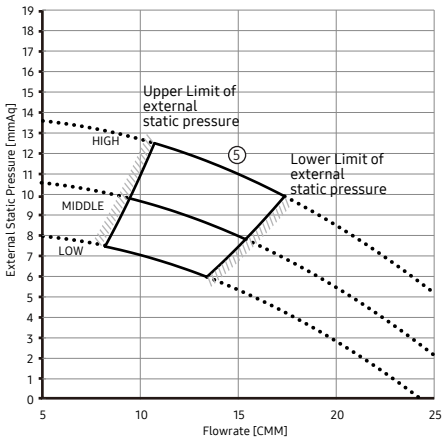
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5mmAq	01B36C-1C548C-272328-370000



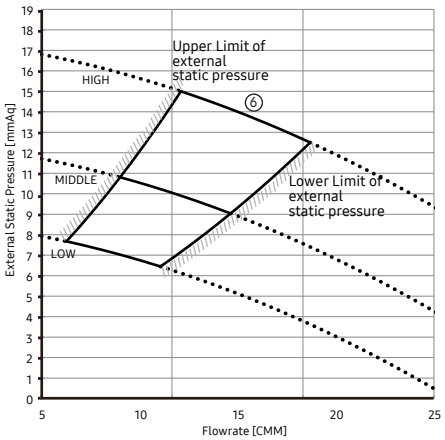
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10mmAq	01B36C-1C55D3-272328-370000



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5mmAq	01B36C-1C5926-272328-370000



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15mmAq	01B36C-1C5998-272328-370000

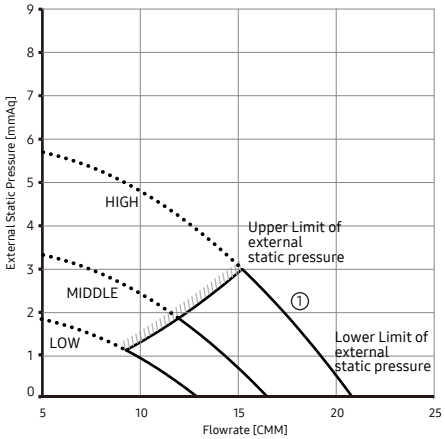


8. Fan Characteristics

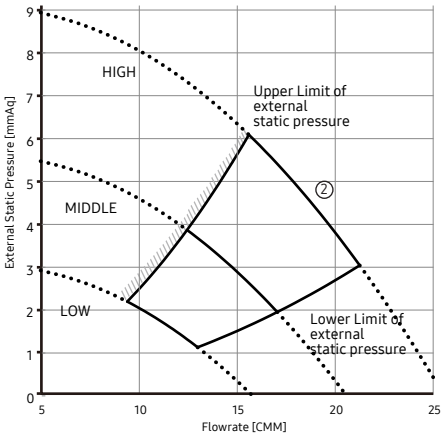
MSP Duct

2) AC052BNMPKG/EU

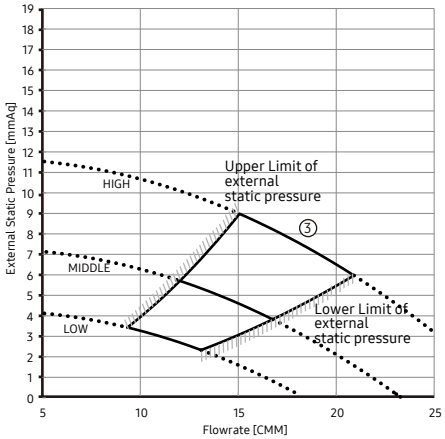
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3mmAq	01B36C-1C5401-27343C-370000



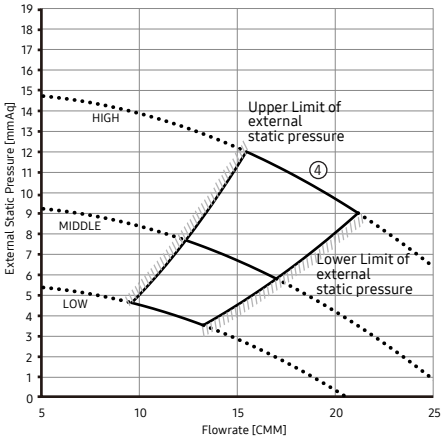
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6mmAq	01B36C-1C5486-27343C-370000



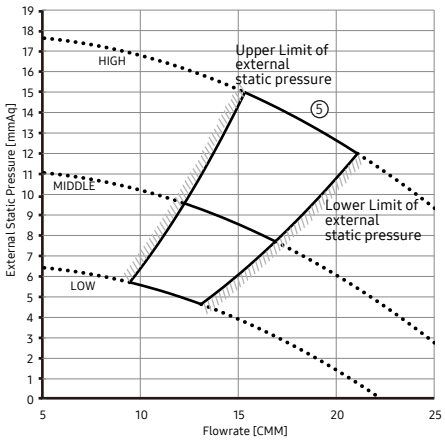
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9mmAq	01B36C-1C54EB-27343C-370000



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12mmAq	01B36C-1C584F-27343C-370000



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15mmAq	01B36C-1C5992-27343C-370000

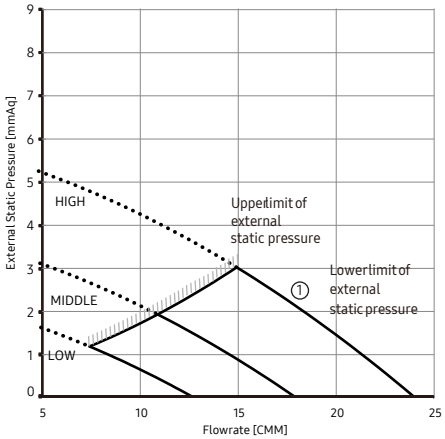


8. Fan Characteristics

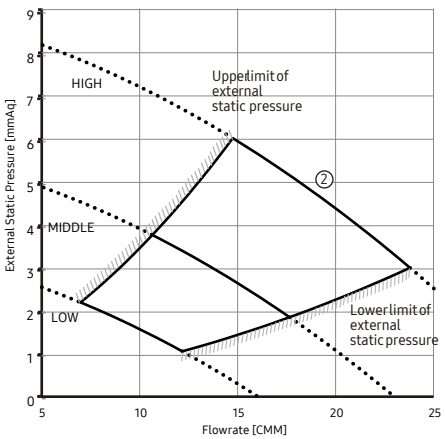
MSP Duct

3) AC071BNMPKG/EU

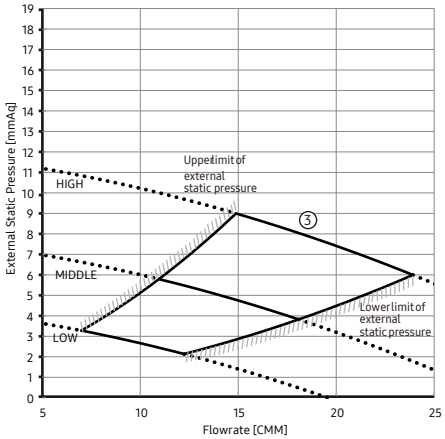
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3mmAq	01B36C-1C50E1-274750-370020



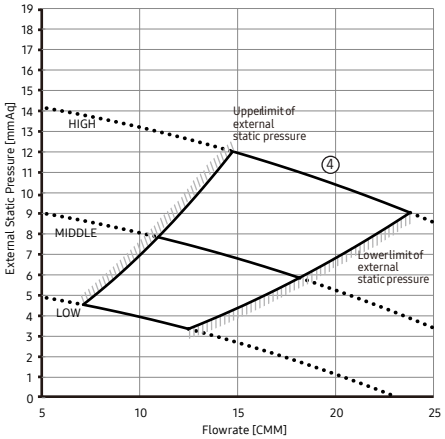
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6mmAq	01B36C-1C5465-274750-370020



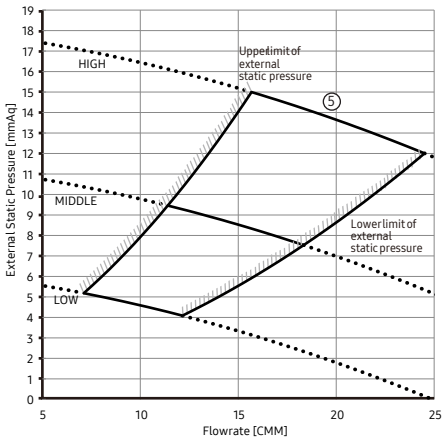
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9mmAq	01B36C-1C54D9-274750-370020



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12mmAq	01B36C-1C583D-274750-370020



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15mmAq	01B36C-1C589F-274750-370020

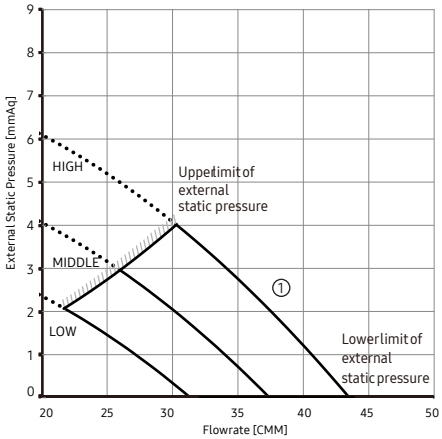


8. Fan Characteristics

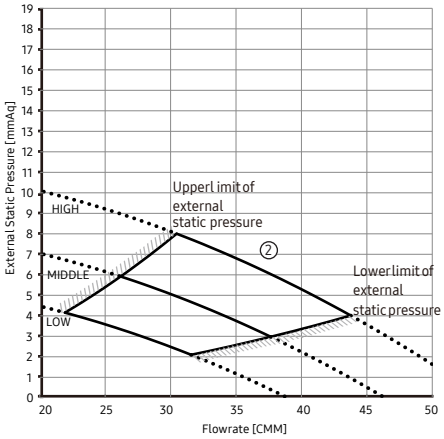
MSP Duct

4) AC100BNMPKG/EU

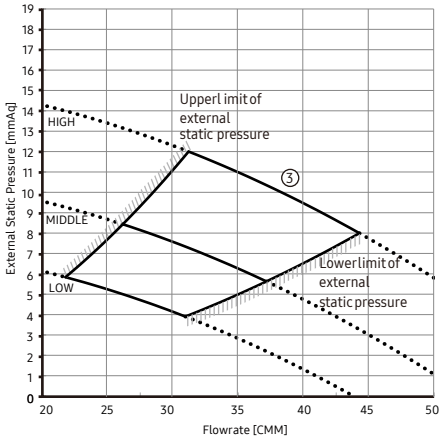
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤4mmAq	01B36C-1C50E4-276470-370040



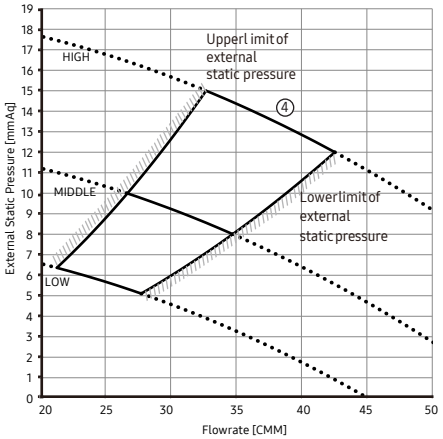
②	External Static Pressure(mmAq)	Option Code
	4≤SP≤8mmAq	01B36C-1C546A-276470-370040



③	External Static Pressure(mmAq)	Option Code
	8≤SP≤12mmAq	01B36C-1C54DE-276470-370040



④	External Static Pressure(mmAq)	Option Code
	12≤SP≤15mmAq	01B36C-1C5913-276470-370040

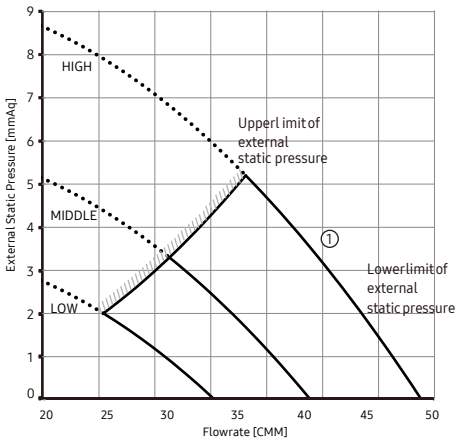


8. Fan Characteristics

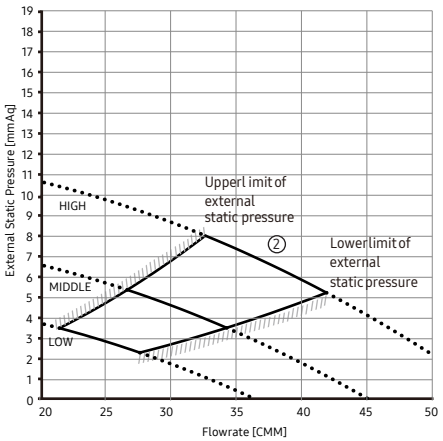
MSP Duct

5) AC120BNMPKG/EU

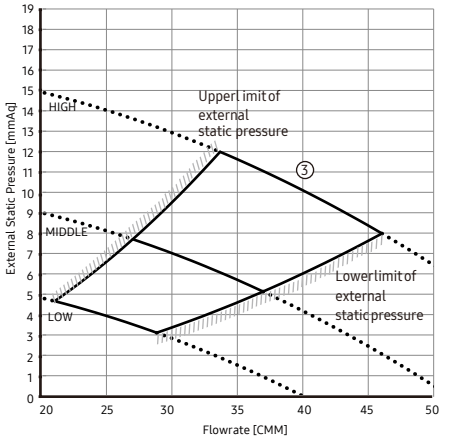
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2mmAq	01B36C-1C5423-277882-370040



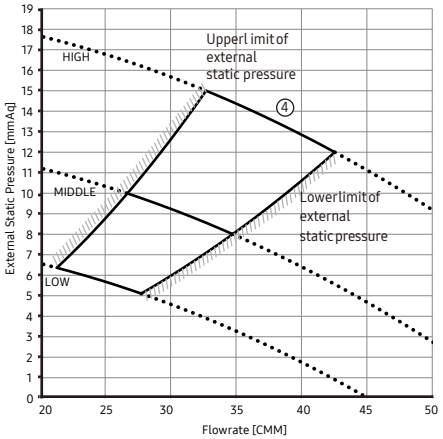
②	External Static Pressure(mmAq)	Option Code
	5.2≤SP≤8mmAq	01B36C-1C5478-277882-370040



③	External Static Pressure(mmAq)	Option Code
	8≤SP≤12mmAq	01B36C-1C54EB-277882-370040



④	External Static Pressure(mmAq)	Option Code
	12≤SP≤15mmAq	01B36C-1C582F-277882-370040

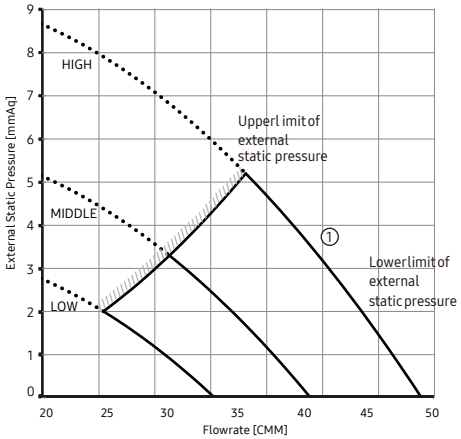


8. Fan Characteristics

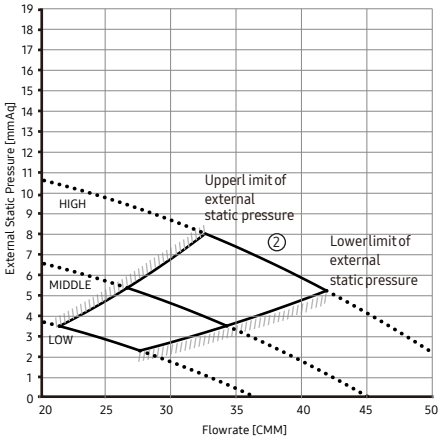
MSP Duct

5) AC140BNMPKG/EU

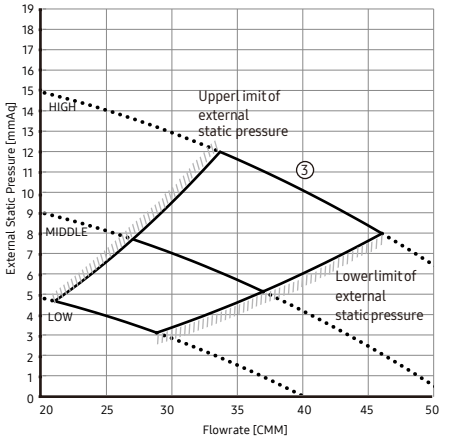
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2mmAq	01B36C-1C5423-278CA0-370040



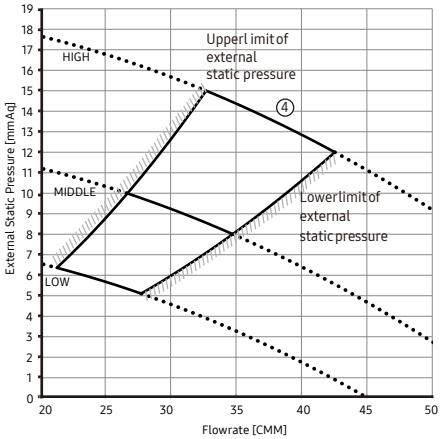
②	External Static Pressure(mmAq)	Option Code
	5.2≤SP≤8mmAq	01B36C-1C5478-278CA0-370040



③	External Static Pressure(mmAq)	Option Code
	8≤SP≤12mmAq	01B36C-1C54EB-278CA0-370040



④	External Static Pressure(mmAq)	Option Code
	12≤SP≤15mmAq	01B36C-1C582F-278CA0-370040



Console

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8. Temperature and air flow distribution 147

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

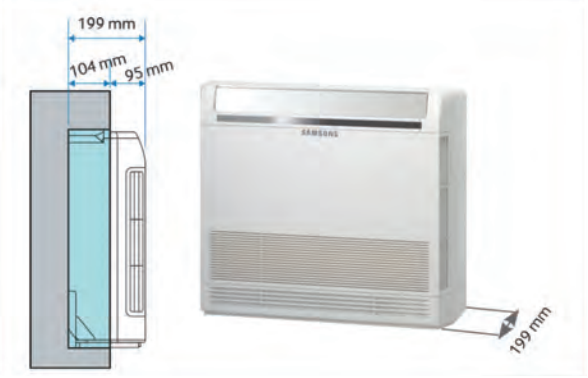
Samsung's console type air conditioner is only 199 mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

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				AC026BNJPKG/EU	AC035BNJPKG/EU
		Outdoor Unit				AC026BXAPKG/EU	AC035BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	0.78 / 2.60 / 4.10	0.89 / 3.50 / 4.90
					Btu/h	2,660 / 8,870 / 13,990	3,040 / 11,940 / 16,720
			Heating		kW	0.80 / 3.50 / 4.70	1.00 / 4.00 / 5.30
					Btu/h	2,730 / 11,940 / 16,040	3,410 / 13,650 / 18,080
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.22 / 0.67 / 1.45	0.23 / 1.05 / 2.05
			Heating		kW	0.19 / 1.05 / 2.50	0.20 / 1.28 / 2.65
		Current Input (Min/Std/Max)	Cooling		A	1.5 / 3.3 / 6.4	1.5 / 5.0 / 9.0
			Heating		A	1.3 / 4.9 / 11.0	1.3 / 5.9 / 11.8
		Current	MCA		A	12.0	12.0
			MFA		A	15.0	15.0
	Efficiency	EER	Cooling		-	3.88	3.33
		COP	Heating		-	3.33	3.13
		SEER (Cooling Energy Grade)			-	6.4	6.4
		SCOP (Heating Energy Grade)			-	4.2	4.1
		Pdesignh			kW	2.0	2.0
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	30	30
			Elevation		m	20	20
			Chargeless		m	20	20
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.20	1.20
					tCO_2e	0.81	0.81
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Turbo	Turbo
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	7.5 / 6.8 / 6.0	8.5 / 7.2 / 6.2
					l/s	125 / 113 / 100	142 / 120 / 103
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	35 x 1	35 x 1
	Drain	Drain Pipe			Φ, mm	ID 18mm Hose	ID 18mm Hose
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	36 / 32 / 26 / 23	38 / 34 / 30 / 24
		Sound Power Level			dB(A)	53	55
	External Dimension	Net Weight			kg	16.0	16.0
		Shipping Weight			kg	20.5	20.5
		Net Dimensions (WxHxD)			mm	720x 620 x 199	720x 620 x 199
		Shipping Dimensions (WxHxD)			mm	805 x 297 x 705	805 x 297 x 705
	Casing	Material			-	Plastic (HIPS)	Plastic (HIPS)

1. Specification

Console

Indoor Unit	Model Name	Indoor Unit			AC026BNJPKG/EU	AC035BNJPKG/EU
		Outdoor Unit			AC026BXAPKG/EU	AC035BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UB9TA8150FEQ	UB9TA8150FEQ
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.50	1.50
		Oil	Type	-	POE	POE
			Initial charge	cc	450	450
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	40	40
				l/s	667	667
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	45	46
			Heating	dB(A)	45	46
		Sound Power Level		dB(A)	59	61
	External Dimension	Net Weight		kg	43.0	43.0
		Shipping Weight		kg	46.5	46.5
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 742 x 413
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20~52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

2. Summary Table

Console

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026BNJPKG/EU	16.0	Max.	4.1	4.7	High	7.5	36	53
		Std.	2.6	3.5	Mid	6.8	32	-
		Min.	0.78	0.8	Low	6.0	26	-
AC035BNJPKG/EU	16.0	Max.	4.9	5.3	High	8.5	38	55
		Std.	3.5	4.0	Mid	7.2	34	-
		Min.	0.89	1.0	Low	6.2	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				
AC026BNJPKG/EU	AC026BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.0	12.0	12.0	15.0
AC035BNJPKG/EU	AC035BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.0	12.0	12.0	15.0

NOTE

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

3. Capacity Table

Console

(1) AC026BNJPKG/EU + AC026BXAPKG/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
-20	2.79	2.08	1.02	2.93	2.14	1.04	3.06	2.21	1.06	3.15	2.28	1.08	3.21	2.25	1.09	3.37	2.23	1.11	3.54	2.19	1.13
21	2.76	1.95	1.04	2.91	2.01	1.06	3.03	2.07	1.08	3.12	2.13	1.11	3.18	2.11	1.12	3.34	2.09	1.13	3.51	2.05	1.15
35	2.30	1.80	0.63	2.42	1.86	0.64	2.52	1.92	0.66	2.60	1.98	0.67	2.65	1.96	0.68	2.78	1.94	0.68	2.92	1.90	0.70
46	2.37	1.84	1.58	2.49	1.90	1.61	2.60	1.95	1.64	2.68	2.01	1.68	2.73	1.99	1.69	2.87	1.97	1.71	3.01	1.94	1.74
52	1.73	1.42	1.51	1.82	1.47	1.54	1.89	1.51	1.58	1.95	1.56	1.61	1.99	1.54	1.62	2.09	1.53	1.64	2.19	1.50	1.67

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
-25	2.68	1.45	2.65	1.43	2.63	1.42	2.60	1.40	2.57	1.39	2.55	1.38
-15	3.57	2.27	3.54	2.25	3.50	2.23	3.47	2.20	3.43	2.18	3.40	2.16
-5	4.28	2.39	4.24	2.36	4.20	2.34	4.16	2.32	4.12	2.29	4.08	2.27
0	4.21	1.98	4.17	1.96	4.13	1.94	4.09	1.92	4.05	1.90	4.01	1.88
7	3.57	1.07	3.54	1.06	3.50	1.05	3.47	1.04	3.43	1.03	3.40	1.02
24	5.00	1.34	4.95	1.33	4.90	1.31	4.85	1.30	4.80	1.29	4.75	1.27

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Console

(2) AC035BNJPKG/EU + AC035BXAPKG/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
-20	3.75	2.50	1.60	3.95	2.58	1.63	4.11	2.66	1.66	4.24	2.74	1.70	4.33	2.71	1.71	4.54	2.69	1.73	4.77	2.63	1.77
21	3.72	2.35	1.63	3.91	2.42	1.66	4.07	2.49	1.70	4.20	2.57	1.73	4.28	2.54	1.75	4.50	2.52	1.77	4.72	2.47	1.80
35	3.10	2.17	0.99	3.26	2.24	1.01	3.40	2.31	1.03	3.50	2.38	1.05	3.57	2.36	1.06	3.75	2.33	1.07	3.94	2.29	1.09
46	3.19	2.21	2.47	3.36	2.28	2.52	3.50	2.35	2.57	3.61	2.43	2.63	3.68	2.40	2.65	3.86	2.38	2.68	4.05	2.33	2.73
52	2.32	1.92	2.37	2.44	1.98	2.42	2.55	2.04	2.47	2.63	2.10	2.52	2.68	2.08	2.55	2.81	2.06	2.57	2.95	2.02	2.62

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
-25	3.06	1.76	3.03	1.75	3.00	1.73	2.97	1.71	2.94	1.69	2.91	1.68
-15	4.08	2.77	4.04	2.74	4.00	2.71	3.96	2.69	3.92	2.66	3.88	2.63
-5	4.90	2.91	4.85	2.88	4.80	2.85	4.75	2.83	4.70	2.80	4.66	2.77
0	4.81	2.42	4.77	2.39	4.72	2.37	4.67	2.34	4.63	2.32	4.58	2.30
7	4.08	1.31	4.04	1.29	4.00	1.28	3.96	1.27	3.92	1.25	3.88	1.24
24	5.71	1.63	5.66	1.62	5.60	1.60	5.54	1.58	5.49	1.57	5.43	1.55

NOTE

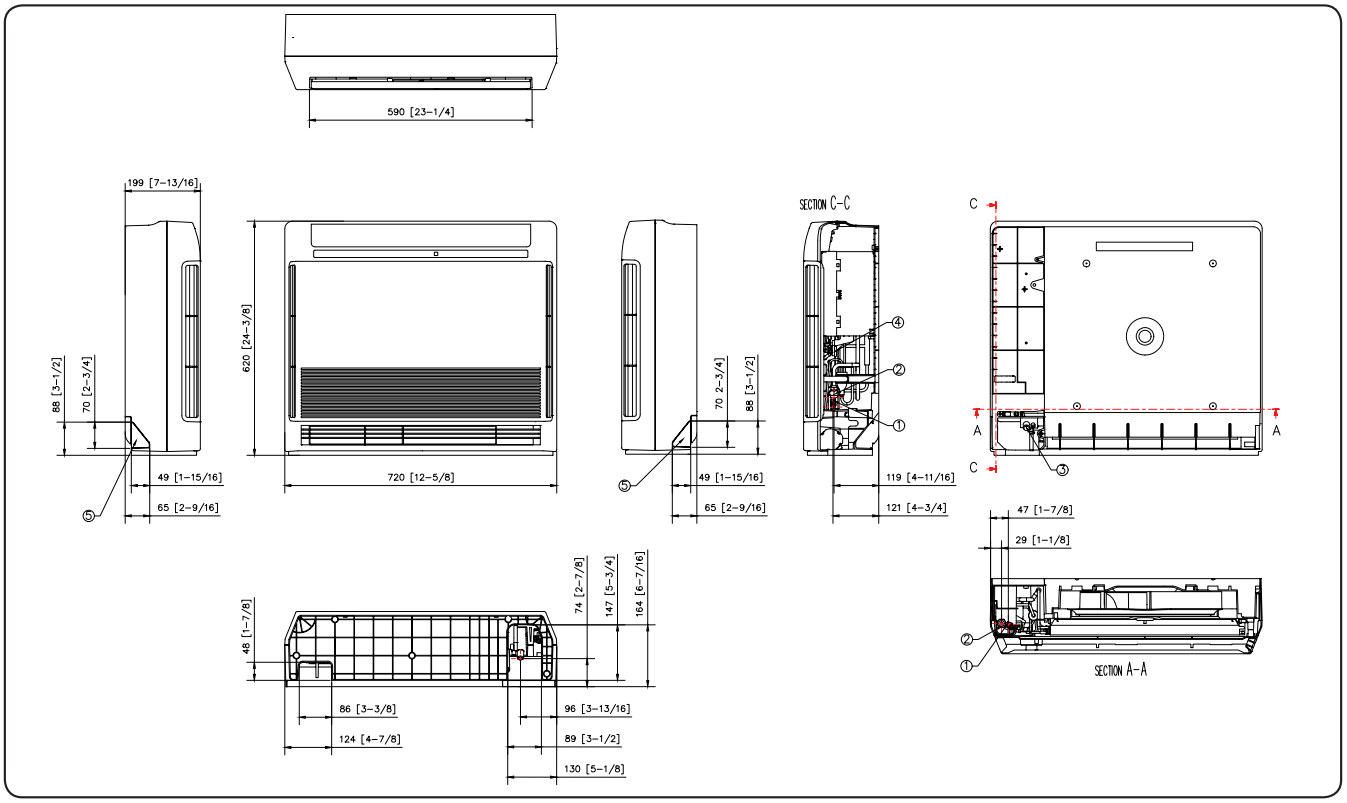
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Console

AC026/035BNJPKG/EU

Units : mm [inches]



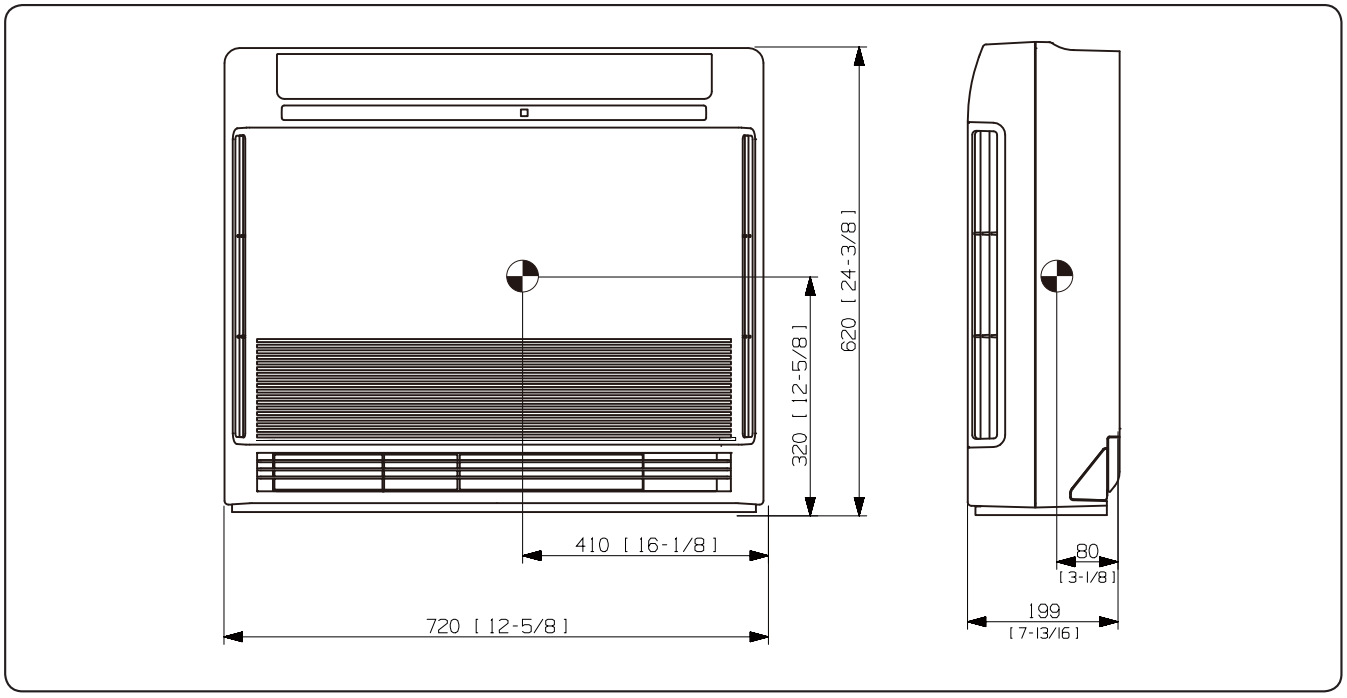
No.	Name	Description	
		AC026BNJPKG/EU	AC035BNJPKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Power supply & Communication wiring conduit		
5	Knockout hole for drain hose		

5. Center of Gravity

Console

AC026/035BNJPKG/EU

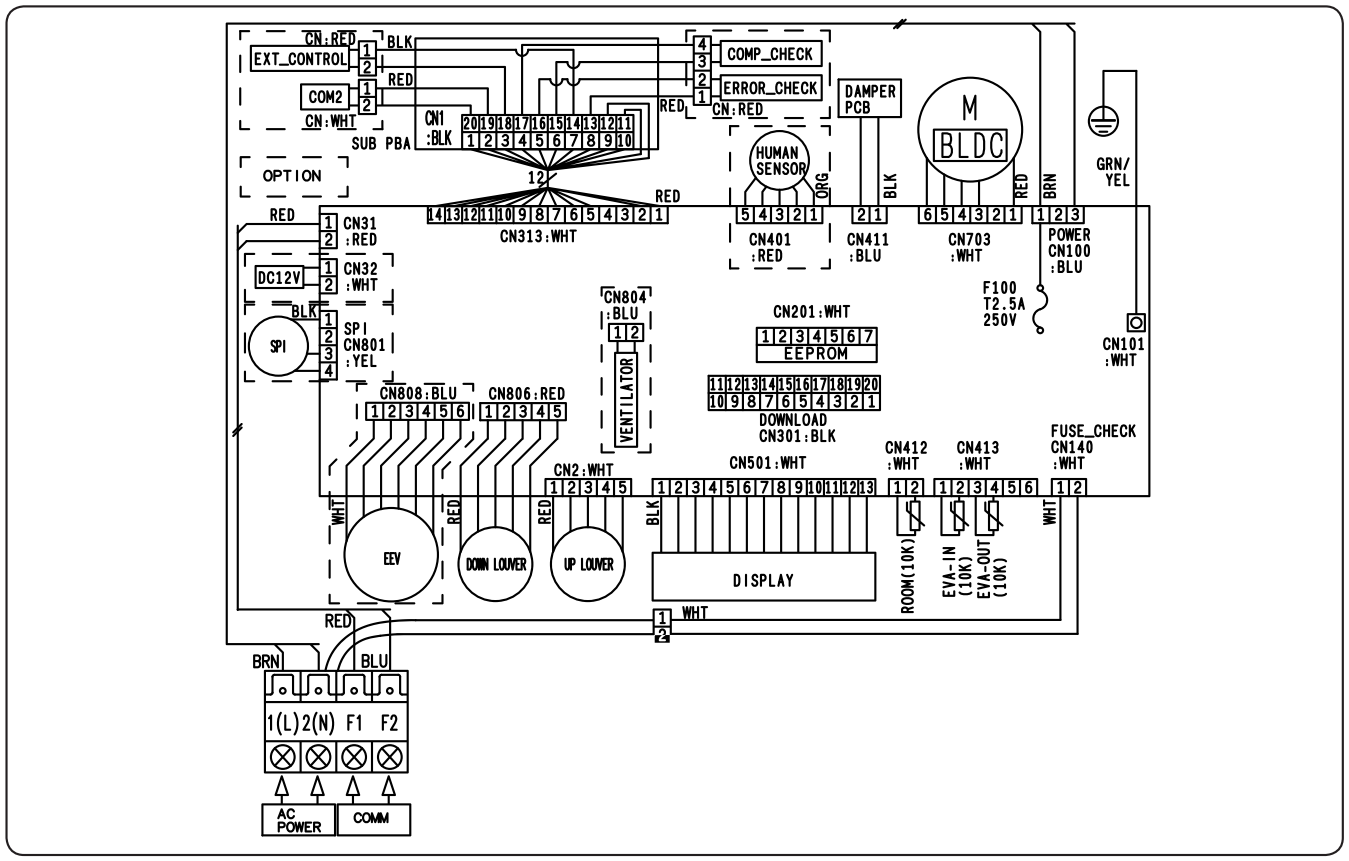
Units : mm [inches]



6. Electrical Wiring Diagram

Console

AC026/035BNJPKG/EU



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

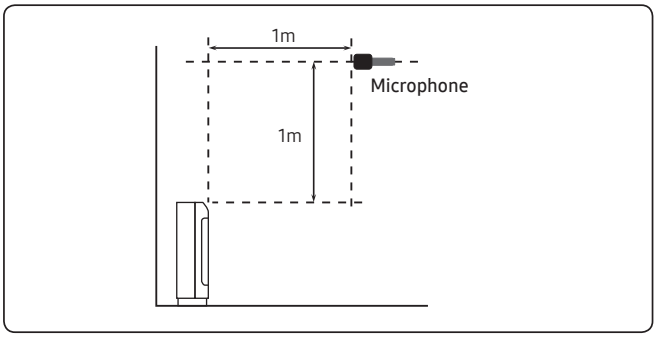
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLU: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ⊏⊐⊏⊐ : connector, N : The wire quantity

7. Sound Data

Console

Sound Pressure level

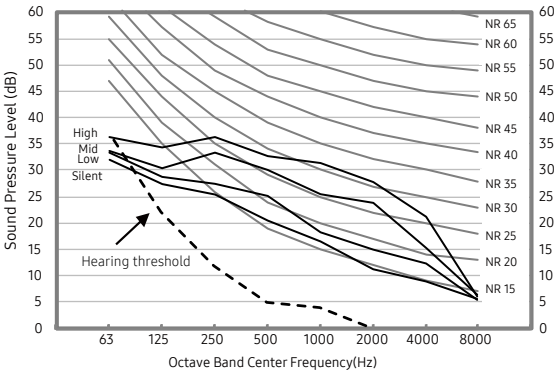
Unit: dB(A)



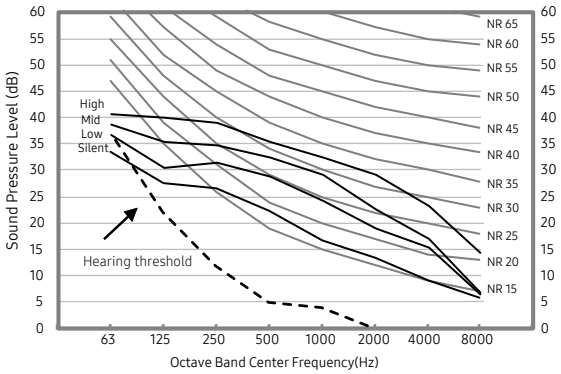
Model	High	Mid	Low	Silent
AC026BNJPKG/EU	36	32	26	23
AC035BNJPKG/EU	38	34	30	24

- NR Curve

1) AC026BNJPKG/EU



2) AC035BNJPKG/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

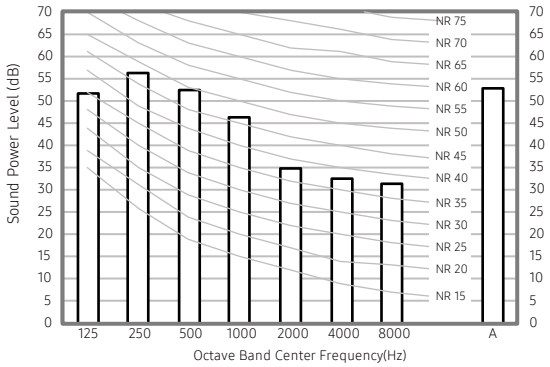
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

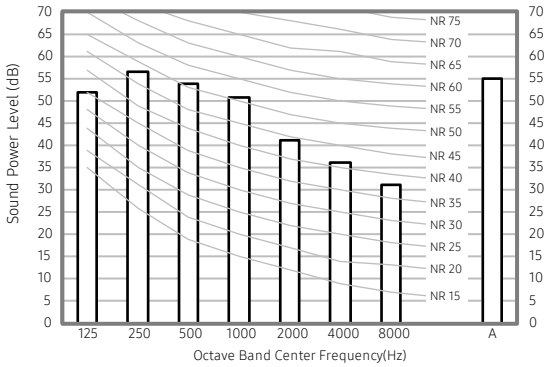
Model	Power
AC026BNJPKG/EU	53
AC035BNJPKG/EU	55

- NR Curve

1) AC026BNJPKG/EU



2) AC035BNJPKG/EU

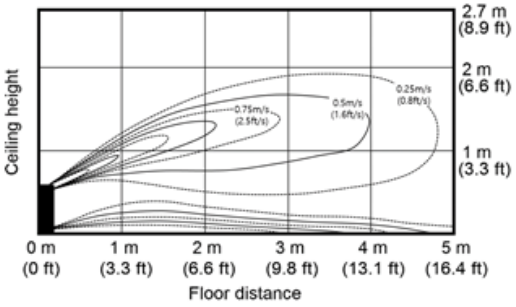


8.Temperature and air flow distribution

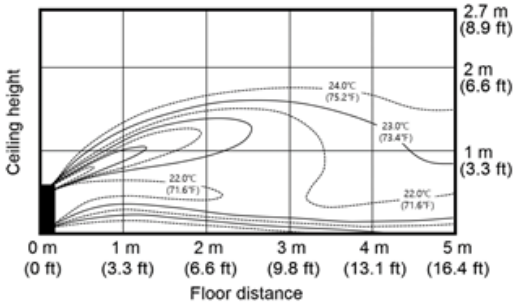
Console

AC026BNJPKG/EU

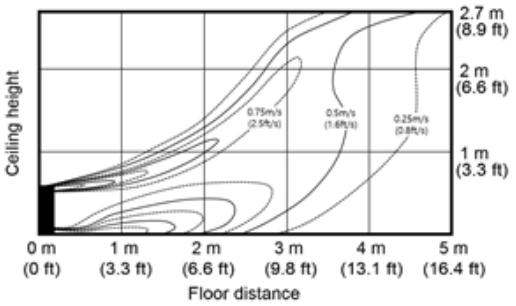
- Cooling Air Velocity distribution
  (Discharge angle : 40 degree)



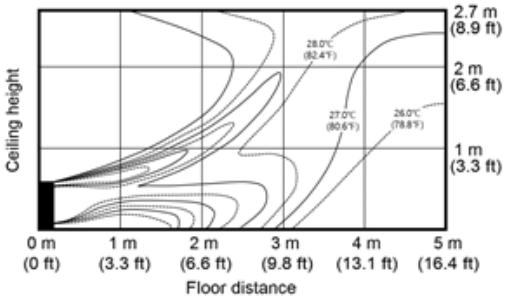
- Cooling temperature distribution
  (Discharge angle : 40 degree)



- Heating Air Velocity distribution
  (Discharge angle : 4 degree)

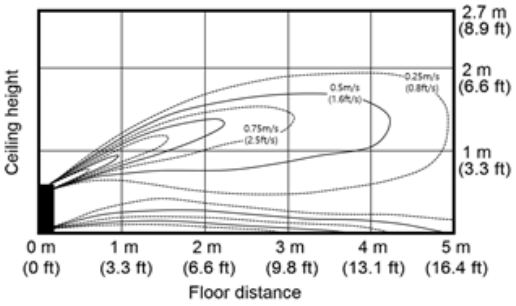


- Heating temperature distribution
  (Discharge angle : 4 degree)

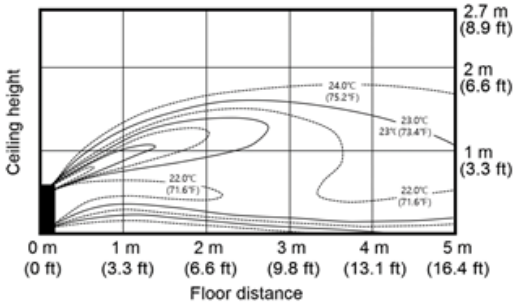


AC035BNJPKG/EU

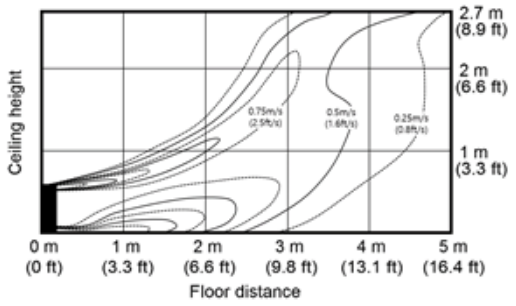
- Cooling Air Velocity distribution
  (Discharge angle : 40 degree)



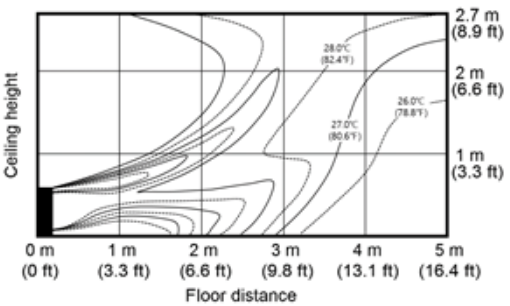
- Cooling temperature distribution
  (Discharge angle : 40 degree)



- Heating Air Velocity distribution
  (Discharge angle : 4 degree)



- Heating temperature distribution
  (Discharge angle : 4 degree)



Ceiling

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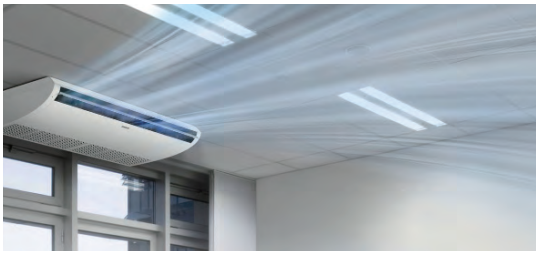
Features & Benefits

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

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

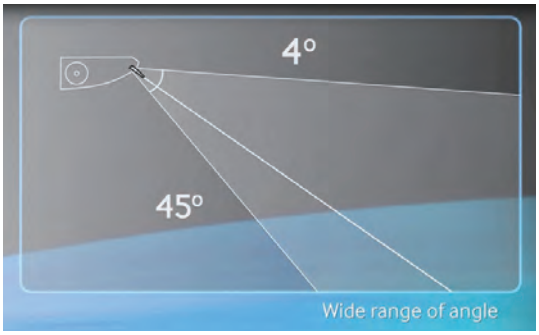
Samsung has been rewriting product descriptions beyond the industry standards. As one of such company's product, Samsung Ceiling focused on sending "sufficient" amount of conditioned air to "distant" places to cover huge area. For convenient installations and maintenances, the Ceiling concentrated service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



Fast cooling, 15m air flow

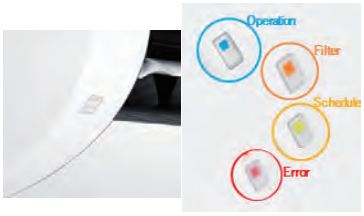
When users need air conditioning, they really need it quickly. While the ceiling applied latest flow-efficient blowers to increase amount of air it discharges, it also mounted single BLDC motor to reduce noises and possibilities of abrupt changes of modes. With increased size of inlet area and fluid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

Ceiling

System	Model Name	Indoor Unit				AC052BNCPKG/EU	AC071BNCPKG/EU
		Outdoor Unit				AC052BXAPKG/EU	AC071BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	1.30 / 5.00 / 8.00	2.30 / 7.10 / 9.50
					Btu/h	4,440 / 17,060 / 27,300	7,850 / 24,230 / 32,420
			Heating		kW	1.30 / 6.00 / 10.00	1.80 / 8.00 / 10.50
					Btu/h	4,440 / 20,470 / 34,120	6,140 / 27,300 / 35,830
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.26 / 1.13 / 2.50	0.47 / 1.88 / 3.10
			Heating		kW	0.23 / 1.31 / 3.40	0.36 / 2.11 / 4.30
		Current Input (Min/Std/Max)	Cooling		A	1.7 / 5.3 / 11.0	2.5 / 8.8 /13.8
			Heating		A	1.5 / 6.1 / 14.9	2.6 / 9.8 / 19.1
		Current	MCA		A	18.5	22.5
			MFA		A	20.0	25.0
	Efficiency	EER	Cooling		-	4.42	3.78
		COP	Heating		-	4.58	3.79
		SEER (Cooling Energy Grade)			-	8.0	7.1
		SCOP (Heating Energy Grade)			-	4.8	4.4
		Pdesignh			kW	4.0	4.7
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	50	55
			Elevation		m	30	30
			Chargeless		m	20	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.70	2.70
					tCO_2e	1.15	1.82
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Sirocco	Sirocco
		Quantity			EA	3	3
		Air Flow Rate	H/M/L		m^3/min	19.0 / 16.1 / 13.8	20.5 / 17.6 / 15.3
					l/s	317 / 268 / 230	342 / 293 / 255
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	153 x 1	153 x 1
	Drain	Drain Pipe			Φ, mm	VP 25 (OD32, ID25)	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	38 / 35 / 32	39 / 36 / 33
		Sound Power Level			dB(A)	56	58
	External Dimension	Net Weight			kg	33.0	33.0
		Shipping Weight			kg	39.0	39.0
		Net Dimensions (WxHxD)			mm	1,350 x 235 x 675	1,350 x 235 x 675
		Shipping Dimensions (WxHxD)			mm	1,439 x 321 x 758	1,439 x 321 x 758
	Casing	Material			-	GI Steel Plate	GI Steel Plate

1. Specification

Ceiling

Indoor Unit	Model Name	Indoor Unit			AC052BNCPKG/EU	AC071BNCPKG/EU
		Outdoor Unit			AC052BXAPKG/EU	AC071BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Anti-Corrosion
	Compressor	Model Name			UB9TA9180FEQ	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.78	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	570	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	55	72
				l/s	917	1,200
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	48	49
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	50.0	75.0
		Shipping Weight		kg	54.0	80.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413	995 x 1,096 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

1. Specification

Ceiling

System	Model Name	Indoor Unit			AC071BNCPKG/EU
		Outdoor Unit			AC071BXAPNG/EU
	Mode			-	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	2.30 / 7.10 / 9.50
				Btu/h	7,850 / 24,230 / 32,420
			Heating	kW	1.80 / 8.00 / 10.50
				Btu/h	6,140 / 27,300 / 35,830
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.47 / 1.88 / 3.10
			Heating	kW	0.36 / 2.11 / 4.30
		Current Input (Min/Std/Max)	Cooling	A	1.1 / 3.1 / 4.9
			Heating	A	0.8 / 3.5 / 6.7
		Current	MCA	A	18.6
			MFA	A	18.6
	Efficiency	EER	Cooling	-	3.78
		COP	Heating	-	3.79
		SEER (Cooling Energy Grade)		-	7.1
		SCOP (Heating Energy Grade)		-	4.4
		Pdesignh		kW	4.7
	Piping Connections	Liquid Pipe		Type	Flare connection
				Φ, ㎜ (inch)	9.52 (3/8)
		Gas Pipe		Type	Flare connection
				Φ, ㎜ (inch)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5
			Max.	m	55
			Elevation	m	30
			Chargeless	m	30
	Wiring connections	Communication	Min.	㎟	0.75
			Remark	-	F1, F2
	Refrigerant	Type		-	R32
		Factory Charging		kg	2.70
				tCO_2e	1.82
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50
	Heat Exchanger	Type		-	F&T
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Green Hydrophile
	Fan	Type		-	Sirocco
		Quantity		EA	3
		Air Flow Rate	H/M/L	m^3/min	20.5 / 17.6 / 15.3
				l/s	342 / 293 / 255
		External Static Pressure	Min/Std/Max	mmAq	-
				Pa	-
	Fan Motor	Type		-	BLDC
		Output		W x n	153 x 1
	Drain	Drain Pipe		Φ, mm	VP 25 (OD32, ID25)
	Sound	Sound Pressure Level	H/M/L/(Silent)	dB(A)	39 / 36 / 33
		Sound Power Level		dB(A)	58
	External Dimension	Net Weight		kg	33.0
		Shipping Weight		kg	39.0
		Net Dimensions (WxHxD)		mm	1,350 x 235 x 675
		Shipping Dimensions (WxHxD)		mm	1,439 x 321 x 758
	Casing	Material		-	GI Steel Plate

1. Specification

Ceiling

Indoor Unit	Model Name	Indoor Unit			AC071BNCPKG/EU
		Outdoor Unit			AC071BXAPNG/EU
	Control System	Infrared remote control		-	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable
Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU
		Type		-	Twin BLDC Rotary
		Output		kW	2.91
		Oil	Type	-	POE
			Initial charge	cc	1,200
	Fan	Type		-	Propeller
		Discharge direction		-	Side
		Quantity		EA	1
		Air Flow Rate		m^3/min	72
				l/s	1,200
	Fan Motor	Type		-	BLDC
		Output		W x n	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47
			Heating	dB(A)	49
		Sound Power Level		dB(A)	64
	External Dimension	Net Weight		kg	74.0
		Shipping Weight		kg	79.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426
	Casing	Material	Body	-	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52
		Heating		°C	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.
  1) Performances are based on the following test conditions.
     - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
     - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
     - Equivalent refrigerant pipe length 5m, Level differences 0m
  2) Select wire size based on the value of MCA
  3) 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 = 20uPa
  4) 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
  5) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.

2. Summary Table

Ceiling

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052BNCPKG/EU	33.0	Max.	8.0	10.0	High	19.0	38	56
		Std.	5.0	6.0	Mid	16.1	35	-
		Min.	1.3	1.3	Low	13.8	32	-
AC071BNCPKG/EU	33.0	Max.	9.5	10.5	High	20.5	39	58
		Std.	7.1	8.0	Mid	17.6	36	-
		Min.	2.3	1.8	Low	15.3	33	-

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				
AC052BNCPKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	2.5	18.5	18.5	20.0
AC071BNCPKG/EU	AC071BXAPKG/EU	50	220 to 240	198	264	20.0	20.0	2.5	22.5	22.5	25.0
AC071BNCPKG/EU	AC071BXAPNG/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

Ceiling

(1) AC052BNCPKG/EU + AC052BXAPKG/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
-20	5.90	4.98	0.99	6.21	5.14	1.01	6.47	5.29	1.03	6.67	5.46	1.06	6.80	5.40	1.07	7.14	5.35	1.08	7.50	5.24	1.10
21	5.84	4.56	1.12	6.15	4.70	1.14	6.40	4.84	1.16	6.60	4.99	1.19	6.73	4.94	1.20	7.07	4.89	1.21	7.42	4.80	1.23
35	4.42	4.06	1.06	4.66	4.19	1.09	4.85	4.32	1.11	5.00	4.45	1.13	5.10	4.41	1.14	5.36	4.36	1.15	5.62	4.27	1.18
46	4.51	3.73	2.29	4.75	3.84	2.33	4.95	3.96	2.38	5.10	4.09	2.43	5.20	4.04	2.45	5.46	4.00	2.48	5.74	3.92	2.53
52	3.54	3.65	1.54	3.72	3.76	1.57	3.88	3.88	1.61	4.00	4.00	1.64	4.08	3.96	1.65	4.28	3.92	1.67	4.50	3.84	1.70

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
-25	3.67	1.67	3.64	1.65	3.60	1.64	3.56	1.62	3.53	1.60	3.49	1.59
-15	6.12	2.51	6.06	2.49	6.00	2.46	5.94	2.44	5.88	2.41	5.82	2.39
-5	7.83	2.94	7.76	2.91	7.68	2.88	7.60	2.85	7.53	2.82	7.45	2.80
0	7.71	2.41	7.64	2.38	7.56	2.36	7.48	2.33	7.41	2.31	7.34	2.29
7	6.12	1.34	6.06	1.32	6.00	1.31	5.94	1.30	5.88	1.28	5.82	1.27
24	10.71	2.25	10.61	2.22	10.50	2.20	10.40	2.18	10.29	2.16	10.19	2.14

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Ceiling

(2) AC071BNCPKG/EU + AC071BXAPKG/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
-20	7.36	5.50	1.57	7.75	5.66	1.60	8.07	5.84	1.64	8.32	6.02	1.67	8.48	5.96	1.69	8.91	5.90	1.70	9.35	5.78	1.74
21	7.29	4.92	1.79	7.67	5.07	1.82	7.99	5.23	1.86	8.24	5.39	1.90	8.40	5.34	1.92	8.82	5.28	1.94	9.26	5.18	1.98
35	6.28	4.99	1.77	6.61	5.14	1.81	6.89	5.30	1.84	7.10	5.47	1.88	7.24	5.41	1.90	7.60	5.36	1.92	7.98	5.25	1.96
46	6.28	4.94	2.92	6.61	5.09	2.98	6.89	5.25	3.04	7.10	5.41	3.10	7.24	5.36	3.13	7.60	5.30	3.16	7.98	5.20	3.23
52	4.40	4.54	2.30	4.63	4.68	2.35	4.82	4.82	2.40	4.97	4.97	2.44	5.07	4.92	2.47	5.32	4.87	2.49	5.59	4.77	2.54

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
-25	4.73	3.10	4.69	3.07	4.64	3.04	4.59	3.01	4.55	2.98	4.50	2.95
-15	8.16	4.69	8.08	4.65	8.00	4.60	7.92	4.55	7.84	4.51	7.76	4.46
-5	10.20	5.32	10.10	5.26	10.00	5.21	9.90	5.16	9.80	5.11	9.70	5.06
0	9.79	4.15	9.70	4.11	9.60	4.07	9.50	4.03	9.41	3.99	9.31	3.95
7	8.16	2.15	8.08	2.13	8.00	2.11	7.92	2.09	7.84	2.07	7.76	2.05
24	11.02	2.69	10.91	2.66	10.80	2.64	10.69	2.61	10.59	2.59	10.48	2.56

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Ceiling

(3) AC071BNCPKG/EU + AC071BXAPNG/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
-20	7.36	5.50	1.57	7.75	5.66	1.60	8.07	5.84	1.64	8.32	6.02	1.67	8.48	5.96	1.69	8.91	5.90	1.70	9.35	5.78	1.74
21	7.29	4.92	1.79	7.67	5.07	1.82	7.99	5.23	1.86	8.24	5.39	1.90	8.40	5.34	1.92	8.82	5.28	1.94	9.26	5.18	1.98
35	6.28	4.99	1.77	6.61	5.14	1.81	6.89	5.30	1.84	7.10	5.47	1.88	7.24	5.41	1.90	7.60	5.36	1.92	7.98	5.25	1.96
46	6.28	4.94	2.92	6.61	5.09	2.98	6.89	5.25	3.04	7.10	5.41	3.10	7.24	5.36	3.13	7.60	5.30	3.16	7.98	5.20	3.23
52	4.40	4.54	2.30	4.63	4.68	2.35	4.82	4.82	2.40	4.97	4.97	2.44	5.07	4.92	2.47	5.32	4.87	2.49	5.59	4.77	2.54

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
-25	4.73	3.10	4.69	3.07	4.64	3.04	4.59	3.01	4.55	2.98	4.50	2.95
-15	8.16	4.69	8.08	4.65	8.00	4.60	7.92	4.55	7.84	4.51	7.76	4.46
-5	10.20	5.32	10.10	5.26	10.00	5.21	9.90	5.16	9.80	5.11	9.70	5.06
0	9.79	4.15	9.70	4.11	9.60	4.07	9.50	4.03	9.41	3.99	9.31	3.95
7	8.16	2.15	8.08	2.13	8.00	2.11	7.92	2.09	7.84	2.07	7.76	2.05
24	11.02	2.69	10.91	2.66	10.80	2.64	10.69	2.61	10.59	2.59	10.48	2.56

NOTE

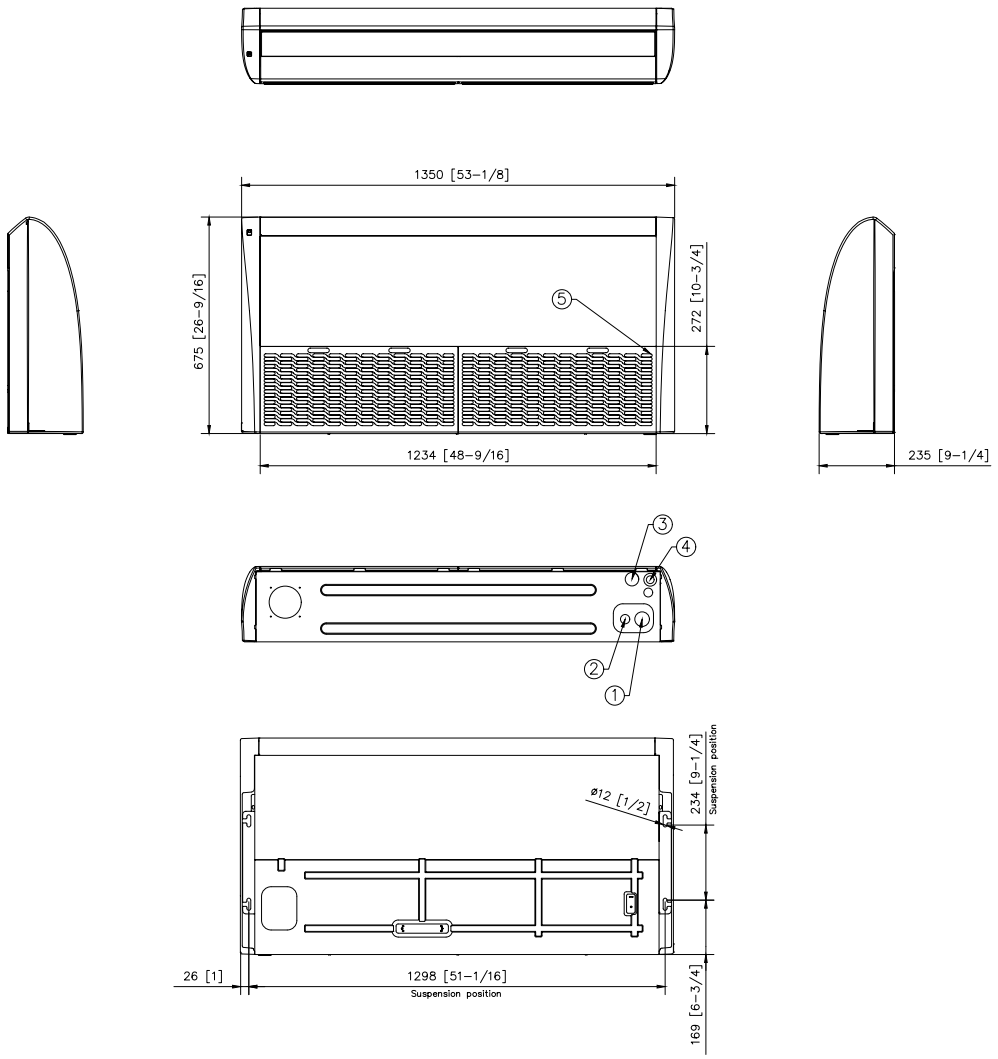
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Ceiling

AC052/071BNCPKG/EU

Units : mm [inches]



No.	Name	Description
1	Gas pipe connection	Φ15.88(5/8)
2	Liquid pipe connection	Φ6.35(1/4)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	Φ28(1-1/8)
5	Knockout hole for Fresh air intake	-

NOTE

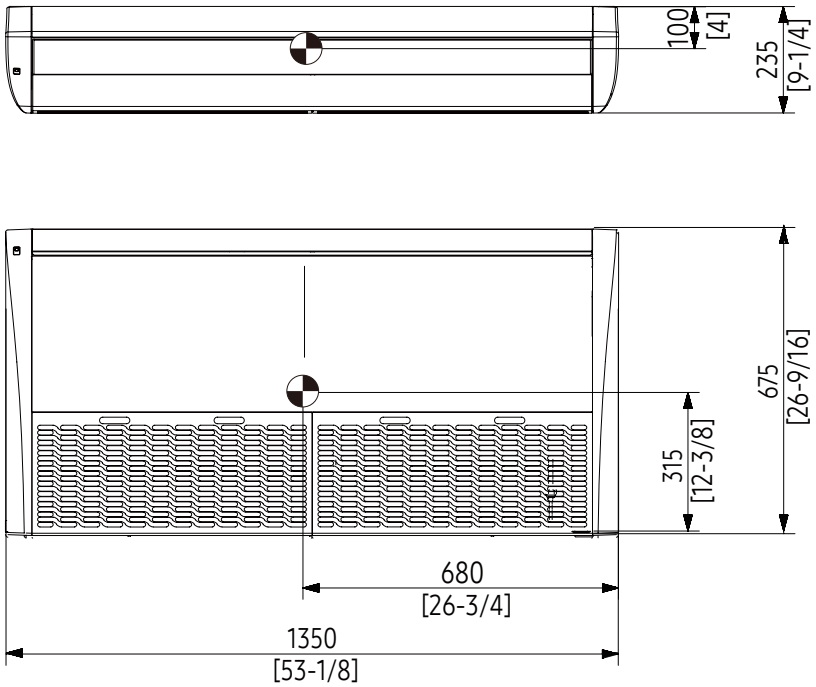
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

Ceiling

AC052/071BNCPKG/EU

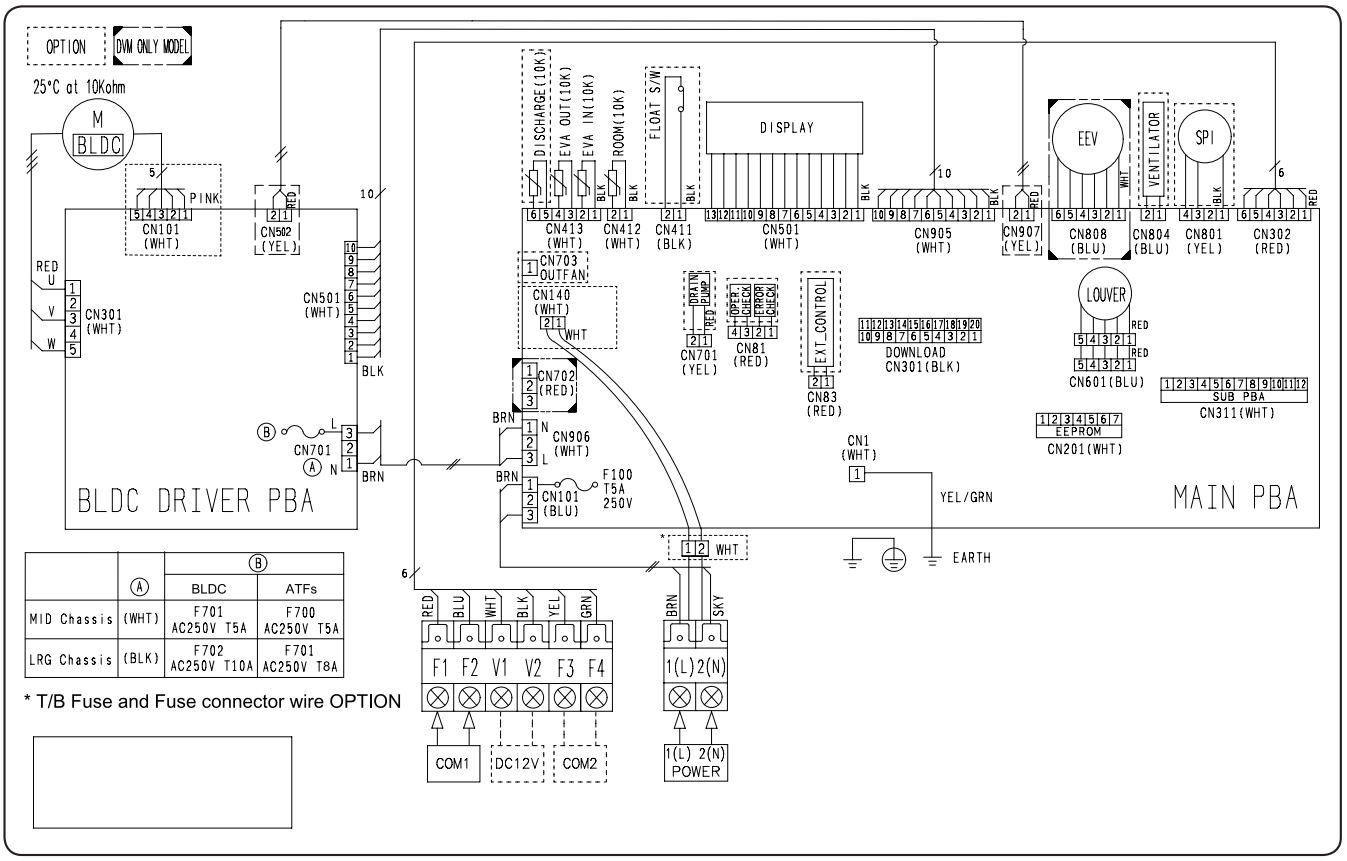
Units : mm [inches]



6. Electrical Wiring Diagram

Ceiling

AC052/071BNCPKG/EU



	Ⓐ	Ⓑ BLDC	Ⓑ ATFs
MID Chassis	(WHT)	F701 AC250V T5A	F700 AC250V T5A
LRG Chassis	(BLK)	F702 AC250V T10A	F701 AC250V T8A

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

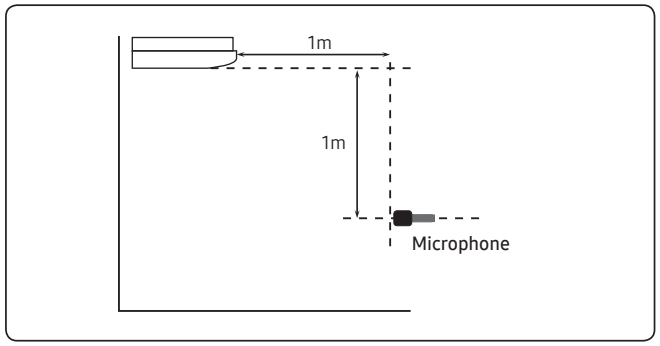
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N : The wire quantity

7. Sound Data

Ceiling

Sound Pressure level

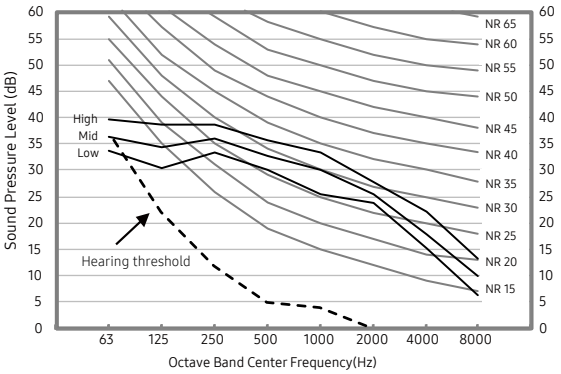
Unit: dB(A)



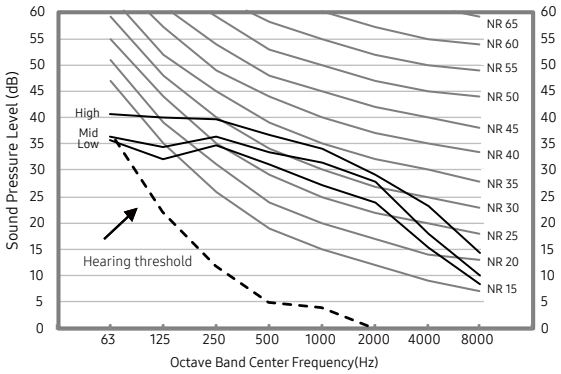
Model	High	Mid	Low
AC052BNCPKG/EU	38	35	32
AC071BNCPKG/EU	39	36	33

- NR Curve

1) AC052BNCPKG/EU



2) AC071BNCPKG/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

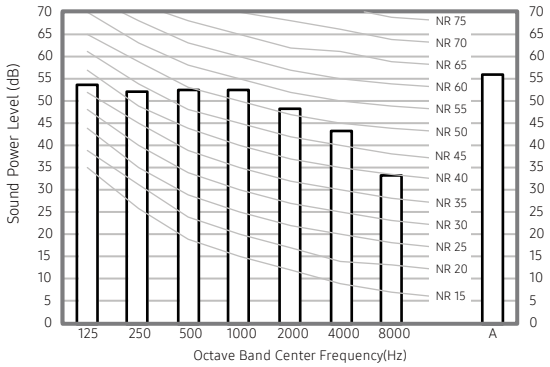
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

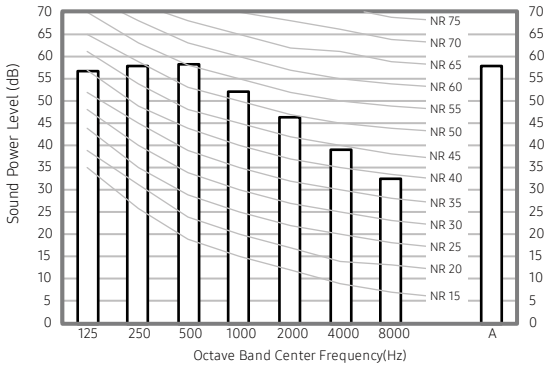
Model	Power
AC052BNCPKG/EU	56
AC071BNCPKG/EU	58

- NR Curve

1) AC052BNCPKG/EU



2) AC071BNCPKG/EU

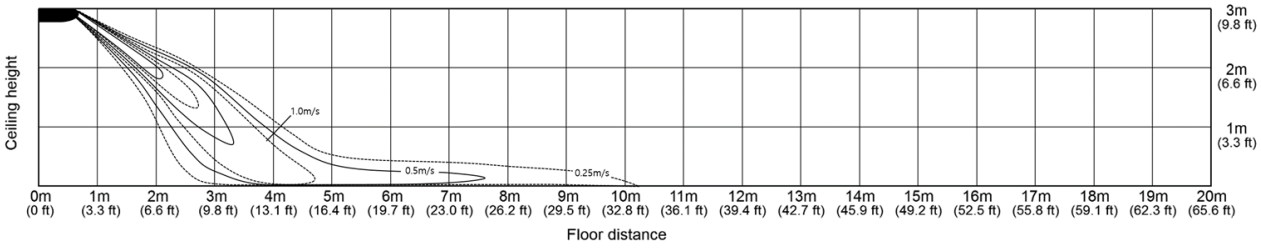


8.Temperature and air flow distribution

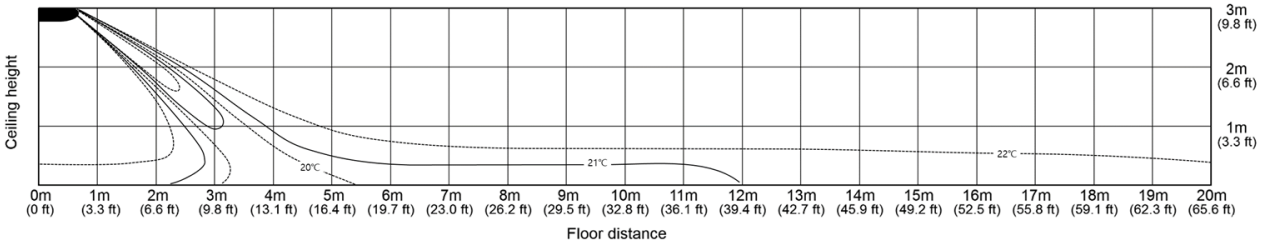
Ceiling

AC052BNCPKG/EU

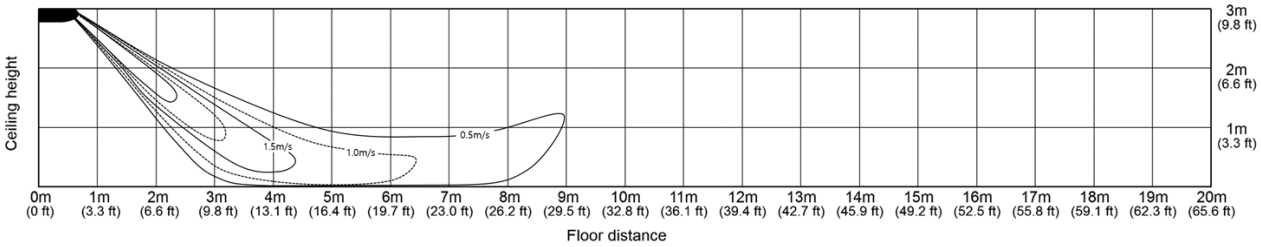
- Cooling Air Velocity distribution
  (Discharge angle : 42 degree)



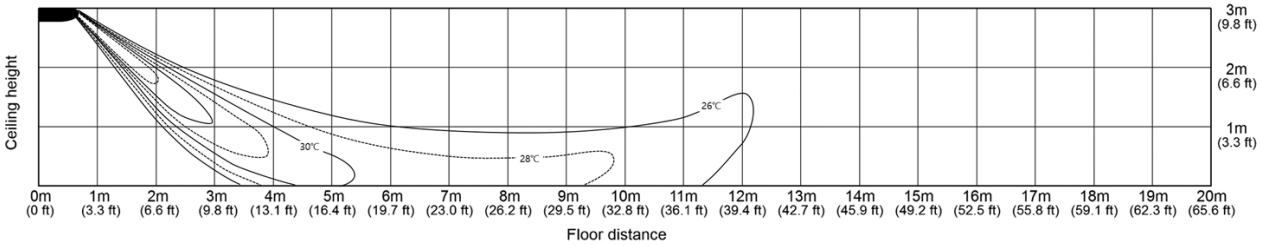
- Cooling temperature distribution
  (Discharge angle : 42 degree)



- Cooling Air Velocity distribution
  (Discharge angle : 53 degree)



- Cooling temperature distribution
  (Discharge angle : 53 degree)

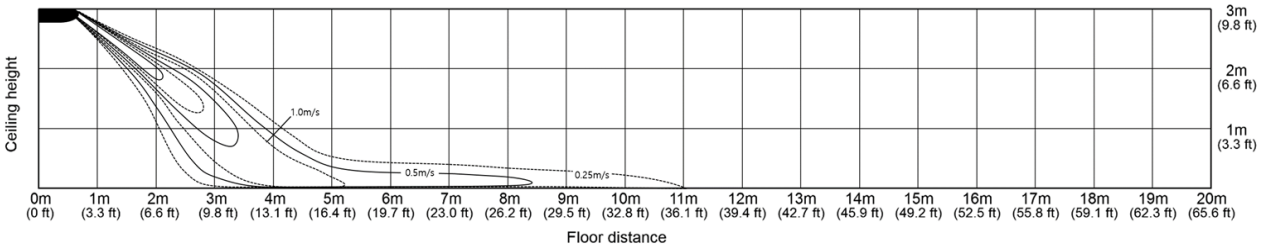


8.Temperature and air flow distribution

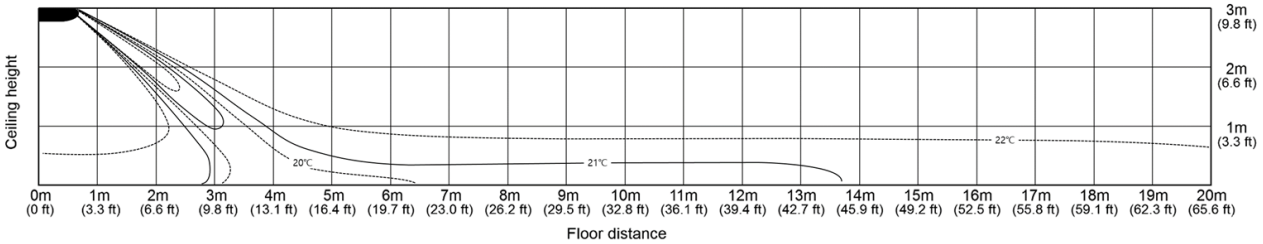
Ceiling

AC071BNCPKG/EU

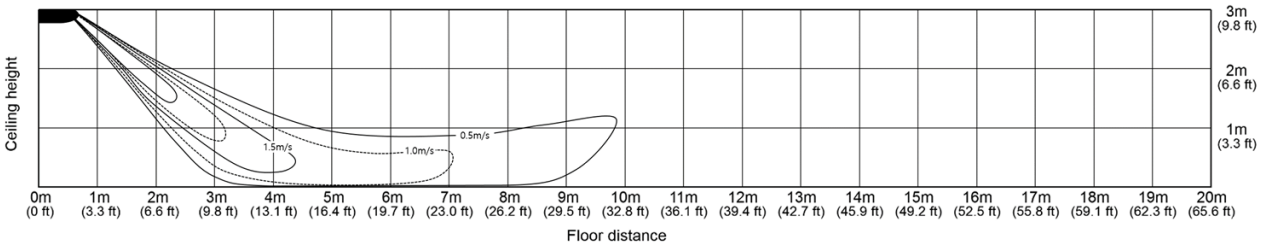
- Cooling Air Velocity distribution
  (Discharge angle : 42 degree)



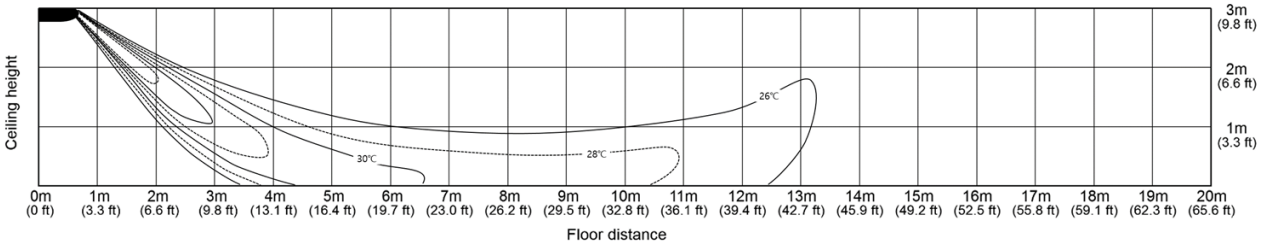
- Cooling temperature distribution
  (Discharge angle : 42 degree)



- Cooling Air Velocity distribution
  (Discharge angle : 53 degree)



- Cooling temperature distribution
  (Discharge angle : 53 degree)



Wall Mounted Type

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Features & Benefits

Wall Mount Type

Stay comfortably cool without feeling cold

WindFree™ Cooling

Stay comfortable cool with WindFree™ Cooling. It gently and quietly disperses air through 23,000 micro air holes, so there is no unpleasant feeling of cold wind on your skin. Its advanced airflow also cools a wider and larger area more evenly. And it uses 77% less energy than Fast Cooling***.



* ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lacks the presence of cold drafts.
** Tested on the AR12TXCAAWKNEU model. WindFree™ mode generates only 23dB of noise, compared to 26dB with the Samsung conventional model.
*** Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. WindFree™ Coolingmode

Easy to clean anti-bacterial filter

Easy Filter Plus

Keep your air conditioner working efficiently with less effort. The Easy Filter Plus is located outside, on the top, so it can easily be taken out and cleaned. Its dense mesh keeps the Heat Exchanger clean and an anti-bacterial coating helps protect you against dangerous airborne contaminants*.



* Tested in Korea test lab. Data has been measured unde specific testing conditions and may vary depending on environmental factors and individual use.

Prevents corrosion for lasting cooling

DuraFin™ Plus

Stay comfortably cool for much longer. The DuraFin™ Plus is made of corrosion-resistant material to protect the condenser from rusting, which helps to maintain the optimal performance of the Heat Exchanger. Its superb corrosion-resistance was proven using the Salt Spray Test (SST) for 480 hours*.

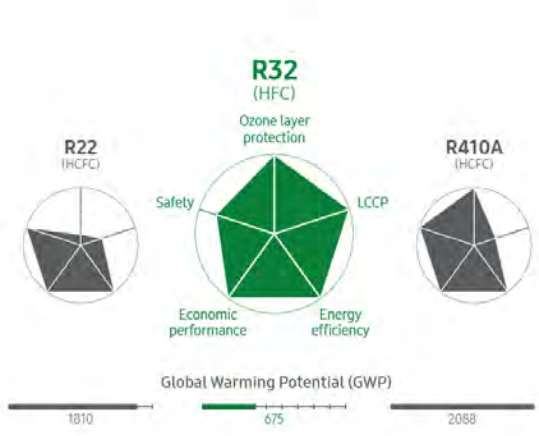
* Tested on the AR12TXFCAWKNEU model



Environmentally friendly refrigerant

R32 Refrigerant

Protect the planet by reducing the impact of climate change. The air conditioner uses the next generation R32 refrigerant, which helps conserve the ozone layer and has a low impact on global warming compared to conventional R22 or R410A refrigerants. So it's much more environmentally friendly*.



* Tested on R32 refrigerant compared with Samsun conventional refrigerants R410A and R22.

1. Specification

Wall Mount Type

System	Model Name	Indoor Unit				AC026BNAPKG/EU	AC035BNAPKG/EU
		Outdoor Unit				AC026BXAPKG/EU	AC035BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	0.98 / 2.60 / 4.20	1.00 / 3.50 / 5.10
					Btu/h	3,340 / 8,870 / 14,330	3,410 / 11,940 / 17,400
			Heating		kW	0.91 / 3.30 / 4.50	0.93 / 4.00 / 5.40
					Btu/h	3,110 / 11,260 / 15,350	3,170 / 13,650 / 18,430
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.21 / 0.65 / 1.41	0.22 / 0.86 / 2.10
			Heating		kW	0.19 / 0.87 / 2.45	0.19 / 0.99 / 2.50
		Current Input (Min/Std/Max)	Cooling		A	1.4 / 3.2 / 6.2	1.4 / 4.1 / 9.2
			Heating		A	1.3 / 4.1 / 10.8	1.3 / 4.6 / 11.4
		Current	MCA		A	12.0	12.0
			MFA		A	15.0	15.0
	Efficiency	EER	Cooling		-	4.00	4.07
		COP	Heating		-	3.79	4.04
		SEER (Cooling Energy Grade)			-	7.2	7.7
		SCOP (Heating Energy Grade)			-	4.3	4.6
		Pdesignh			kW	2.1	2.5
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	30	30
			Elevation		m	20	20
			Chargeless		m	20	20
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.20	1.20
					tCO_2e	0.81	0.81
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Green Hydrophile	Green Hydrophile
	Fan	Type			-	Cross Flow	Cross Flow
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	10.6 / 8.5 / 6.9	12.7 / 10.1 / 8.0
					l/s	177 / 142 / 115	212 / 168 / 133
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	27 x 1	27 x 1
	Drain	Drain Pipe			Φ, mm	ID 18mm Hose	ID 18mm Hose
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	37 / 31 / 25 / 21	41 / 35 / 29 / 24
		Sound Power Level			dB(A)	56	58
	External Dimension	Net Weight			kg	10.6	10.6
		Shipping Weight			kg	12.0	12.0
		Net Dimensions (WxHxD)			mm	889 x 215 x 299	889 x 215 x 299
		Shipping Dimensions (WxHxD)			mm	950 x 375 x 290	950 x 375 x 290
	Casing	Material			-	Plastic (HIPS)	Plastic (HIPS)

1. Specification

Wall Mount Type

Indoor Unit	Model Name	Indoor Unit			AC026BNAPKG/EU	AC035BNAPKG/EU
		Outdoor Unit			AC026BXAPKG/EU	AC035BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Green Hydrophile
	Compressor	Model Name			UB9TA8150FEQ	UB9TA8150FEQ
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.50	1.50
		Oil	Type	-	POE	POE
			Initial charge	cc	450	450
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	40	40
				l/s	667	667
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	45	46
			Heating	dB(A)	45	46
		Sound Power Level		dB(A)	59	61
	External Dimension	Net Weight		kg	43.0	43.0
		Shipping Weight		kg	46.5	46.5
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 742 x 413
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20~52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.
   - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
   - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
   - Equivalent refrigerant pipe length 5m, Level differences 0m
2) Select wire size based on the value of MCA
3) 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 = 20uPa
4) 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
5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

Wall Mount Type

System	Model Name	Indoor Unit				AC052BNAPKG/EU	AC071BNAPKG/EU
		Outdoor Unit				AC052BXAPKG/EU	AC071BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	1.20 / 5.00 / 7.30	2.00 / 7.10 / 9.20
					Btu/h	4,090 / 17,060 / 24,910	6,820 / 24,230 / 31,390
			Heating		kW	1.00 / 6.00 / 9.40	1.60 / 8.00 / 10.50
					Btu/h	3,410 / 20,470 / 32,070	5,460 / 27,300 / 35,830
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.25 / 1.27 / 2.41	0.46 / 2.18 / 3.10
			Heating		kW	0.23 / 1.58 / 3.40	0.37 / 2.41 / 4.50
		Current Input (Min/Std/Max)	Cooling		A	1.6 / 5.9 / 10.6	2.4 / 10.0 / 14.0
			Heating		A	1.5 / 7.2 / 14.9	2.6 / 10.9 / 19.8
		Current	MCA		A	17.0	21.0
			MFA		A	20.0	25.0
	Efficiency	EER	Cooling		-	3.94	3.26
		COP	Heating		-	3.80	3.32
		SEER (Cooling Energy Grade)			-	7.5	7.0
		SCOP (Heating Energy Grade)			-	4.6	4.3
		Pdesignh			kW	3.9	3.9
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	6.35 (1/4)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	50	55
			Elevation		m	30	30
			Chargeless		m	20	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	1.70	2.70
					tCO_2e	1.15	1.82
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Cross Flow	Cross Flow
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	15.2 / 12.6 / 10.6	17.8 / 15.2 / 13.2
					l/s	253 / 210 / 177	297 / 253 / 220
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	27 x 1	27 x 1
	Drain	Drain Pipe			Φ, mm	ID 18mm Hose	ID 18mm Hose
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	42 / 37 / 32 / 25	45 / 40 / 36 / 30
		Sound Power Level			dB(A)	58	61
	External Dimension	Net Weight			kg	12.7	12.7
		Shipping Weight			kg	14.5	14.5
		Net Dimensions (WxHxD)			mm	1,055 x 215 x 299	1,055 x 215 x 299
		Shipping Dimensions (WxHxD)			mm	1,115 x 375 x 290	1,115 x 375 x 290
	Casing	Material			-	Plastic (HIPS)	Plastic (HIPS)

1. Specification

Wall Mount Type

Indoor Unit	Model Name	Indoor Unit			AC052BNAPKG/EU	AC071BNAPKG/EU
		Outdoor Unit			AC052BXAPKG/EU	AC071BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable	Removable / Washable
Outdoor Unit	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		-	Green Hydrophile	Anti-Corrosion
	Compressor	Model Name			UB9TA9180FEQ	UB8TN8300FJU
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	1.78	2.91
		Oil	Type	-	POE	POE
			Initial charge	cc	570	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	55	72
				l/s	917	1,200
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	48	49
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	50.0	75.0
		Shipping Weight		kg	54.0	80.0
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330
		Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413	995 x 1,096 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.
   - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
   - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
   - Equivalent refrigerant pipe length 5m, Level differences 0m
2) Select wire size based on the value of MCA
3) 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 = 20uPa
4) 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
5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

Wall Mount Type

System	Model Name	Indoor Unit				AC071BNAPKG/EU	AC100BNTPKG/EU
		Outdoor Unit				AC071BXAPNG/EU	AC100BXAPKG/EU
	Mode				-	Heat pump	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling		kW	2.00 / 7.10 / 9.20	3.60 / 9.50 / 12.10
					Btu/h	6,820 / 24,230 / 31,390	12,280 / 34,410 / 41,280
			Heating		kW	1.60 / 8.00 / 10.50	2.90 / 10.80 / 16.20
					Btu/h	5,460 / 27,300 / 35,830	9,890 / 36,850 / 55,270
	Power	Power Input (Min/Std/Max)	Cooling		kW	0.46 / 2.18 / 3.10	0.78 / 2.74 / 4.20
			Heating		kW	0.37 / 2.41 / 4.50	0.65 / 3.45 / 6.40
		Current Input (Min/Std/Max)	Cooling		A	1.1 / 3.7 / 5.3	4.0 / 12.3 / 18.3
			Heating		A	0.8 / 4.0 / 7.3	4.0 / 15.3 / 27.9
		Current	MCA		A	17.1	29.0
			MFA		A	17.1	35.0
	Efficiency	EER	Cooling		-	3.26	3.47
		COP	Heating		-	3.32	3.13
		SEER (Cooling Energy Grade)			-	7.0	6.9
		SCOP (Heating Energy Grade)			-	4.3	4.1
		Pdesignh			kW	3.9	6.5
	Piping Connections	Liquid Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe			Type	Flare connection	Flare connection
					Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard		m	5	5
			Max.		m	55	85
			Elevation		m	30	30
			Chargeless		m	30	30
	Wiring connections	Communication	Min.		㎟	0.75	0.75
			Remark		-	F1, F2	F1, F2
	Refrigerant	Type			-	R32	R32
		Factory Charging			kg	2.70	3.50
					tCO_2e	1.82	2.36
Indoor Unit	Power Supply				Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type			-	F&T	F&T
		Material	Fin		-	Al	Al
			Tube		-	Cu	Cu
		Fin Treatment			-	Hydrophile	Hydrophile
	Fan	Type			-	Cross Flow	Cross Flow
		Quantity			EA	1	1
		Air Flow Rate	H/M/L		m^3/min	17.8 / 15.2 / 13.2	22.7 / 19.8 / 17.8
					l/s	297 / 253 / 220	378 / 330 / 297
		External Static Pressure	Min/Std/Max		mmAq	-	-
					Pa	-	-
	Fan Motor	Type			-	BLDC	BLDC
		Output			W x n	27 x 1	58 x 1
	Drain	Drain Pipe			Φ, mm	ID 18mm Hose	ID 18mm Hose
	Sound	Sound Pressure Level	H/M/L/(Silent)		dB(A)	45 / 40 / 36 / 30	49 / 46 / 43 / 37
		Sound Power Level			dB(A)	61	65
	External Dimension	Net Weight			kg	12.7	18.5
		Shipping Weight			kg	14.5	22.0
		Net Dimensions (WxHxD)			mm	1,055 x 215 x 299	1,280 x 345 x 253
		Shipping Dimensions (WxHxD)			mm	1,115 x 375 x 290	1,352 x 326 x 420
	Casing	Material			-	Plastic (HIPS)	Plastic (HIPS)

1. Specification

Wall Mount Type

Indoor Unit	Model Name	Indoor Unit			AC071BNAPKG/EU	AC100BNTPKG/EU
		Outdoor Unit			AC071BXAPNG/EU	AC100BXAPKG/EU
	Control System	Infrared remote control		-	AR-EH04E	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removable / Washable	Removalble / Washable
Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380~415,50	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			UB8TN8300FJU	ATQ420D1UNT1
		Type		-	Twin BLDC Rotary	Twin BLDC Rotary
		Output		kW	2.91	3.44
		Oil	Type	-	POE	POE
			Initial charge	cc	1,200	1,500
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	72	125
				l/s	1,200	2,083
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47	47
			Heating	dB(A)	49	50
		Sound Power Level		dB(A)	64	66
	External Dimension	Net Weight		kg	74.0	100.0
		Shipping Weight		kg	79.0	110.0
		Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52	-20 ~ 52
		Heating		°C	-25 ~ 24	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.
   - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
   - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
   - Equivalent refrigerant pipe length 5m, Level differences 0m
2) Select wire size based on the value of MCA
3) 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 = 20uPa
4) 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
5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

1. Specification

Wall Mount Type

System	Model Name	Indoor Unit			AC100BNTPKG/EU
		Outdoor Unit			AC100BXAPNG/EU
	Mode			-	Heat pump
	Performance	Capacity (Min/Std/Max)	Cooling	kW	3.60 / 9.50 / 12.10
				Btu/h	12,280 / 34,410 / 41,280
			Heating	kW	2.90 / 10.80 / 16.20
				Btu/h	9,890 / 36,850 / 55,270
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.78 / 2.74 / 4.20
			Heating	kW	0.65 / 3.45 / 6.40
		Current Input (Min/Std/Max)	Cooling	A	1.5 / 4.6 / 6.7
			Heating	A	1.3 / 5.6 / 9.3
		Current	MCA	A	17.1
			MFA	A	17.1
	Efficiency	EER	Cooling	-	3.47
		COP	Heating	-	3.13
		SEER (Cooling Energy Grade)		-	6.9
		SCOP (Heating Energy Grade)		-	4.1
		Pdesignh		kW	6.5
	Piping Connections	Liquid Pipe		Type	Flare connection
				Φ, ㎜ (inch)	9.52 (3/8)
		Gas Pipe		Type	Flare connection
				Φ, ㎜ (inch)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	m	5
			Max.	m	85
			Elevation	m	30
			Chargeless	m	30
	Wiring connections	Communication	Min.	㎟	0.75
			Remark	-	F1, F2
	Refrigerant	Type		-	R32
		Factory Charging		kg	3.50
				tCO_2e	2.36
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50
	Heat Exchanger	Type		-	F&T
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Hydrophile
	Fan	Type		-	Cross Flow
		Quantity		EA	1
		Air Flow Rate	H/M/L	m^3/min	22.7 / 19.8 / 17.8
				l/s	378 / 330 / 297
		External Static Pressure	Min/Std/Max	mmAq	-
				Pa	-
	Fan Motor	Type		-	BLDC
		Output		W x n	58 x 1
	Drain	Drain Pipe		Φ, mm	ID 18mm Hose
	Sound	Sound Pressure Level	H/M/L/(Silent)	dB(A)	49 / 46 / 43 / 37
		Sound Power Level		dB(A)	65
	External Dimension	Net Weight		kg	18.5
		Shipping Weight		kg	22.0
		Net Dimensions (WxHxD)		mm	1,280 x 345 x 253
		Shipping Dimensions (WxHxD)		mm	1,352 x 326 x 420
	Casing	Material		-	Plastic (HIPS)

1. Specification

Wall Mount Type

Indoor Unit	Model Name	Indoor Unit			AC100BNTPKG/EU
		Outdoor Unit			AC100BXAPNG/EU
	Control System	Infrared remote control		-	AR-EH04E
		Wired remote control		-	MWR-WE13N MWR-WG00*N
	Additional Accessories	Air Filter		-	Removalble / Washable
Outdoor Unit	Power Supply			Ø, #, V, Hz	3,4,380~415,50
	Heat Exchanger	Type		-	Fin & Tube
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU
		Type		-	Twin BLDC Rotary
		Output		kW	2.91
		Oil	Type	-	POE
			Initial charge	cc	1,200
	Fan	Type		-	Propeller
		Discharge direction		-	Side
		Quantity		EA	1
		Air Flow Rate		m^3/min	125
				l/s	2,083
	Fan Motor	Type		-	BLDC
		Output		W x n	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	47
			Heating	dB(A)	50
		Sound Power Level		dB(A)	66
	External Dimension	Net Weight		kg	100.0
		Shipping Weight		kg	110.0
		Net Dimensions (WxHxD)		mm	940 x 1,420 x 330
		Shipping Dimensions (WxHxD)		mm	995 x 1,598 x 426
	Casing	Material	Body	-	EGI Steel
	Operating Temp. Range	Cooling		°C	-20 ~ 52
		Heating		°C	-25 ~ 24

NOTE

- Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.
   - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
   - Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
   - Equivalent refrigerant pipe length 5m, Level differences 0m
2) Select wire size based on the value of MCA
3) 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 = 20uPa
4) 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
5) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.

2. Summary Table

Wall Mount Type

Performance Characteristics

Model Code	Net Weight (kg)		Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026BNAPKG/EU	10.6	Max.	4.2	4.5	High	10.6	37	56
		Std.	2.6	3.3	Mid	8.5	31	-
		Min.	0.98	0.91	Low	6.9	25	-
AC035BNAPKG/EU	10.6	Max.	5.1	5.4	High	12.7	41	58
		Std.	3.5	4.0	Mid	10.1	35	-
		Min.	1.0	0.93	Low	8.0	29	-
AC052BNAPKG/EU	12.7	Max.	7.3	9.4	High	15.2	42	58
		Std.	5.0	6.0	Mid	12.6	37	-
		Min.	1.2	1.0	Low	10.6	32	-
AC071BNAPKG/EU	12.7	Max.	9.2	10.5	High	17.8	45	61
		Std.	7.1	8.0	Mid	15.2	40	-
		Min.	2.0	1.6	Low	13.2	36	-
AC100BNTPKG/EU	18.5	Max.	12.1	16.2	High	22.7	49	65
		Std.	9.5	10.8	Mid	19.8	46	-
		Min.	3.6	2.9	Low	17.8	43	-

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				
AC026BNAPKG/EU	AC026BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.0	12.0	12.0	15.0
AC035BNAPKG/EU	AC035BXAPKG/EU	50	220 to 240	198	264	11.0	11.0	1.0	12.0	12.0	15.0
AC052BNAPKG/EU	AC052BXAPKG/EU	50	220 to 240	198	264	16.0	16.0	1.0	17.0	17.0	20.0
AC071BNAPKG/EU	AC071BXAPKG/EU	50	220 to 240	198	264	16.1	16.1	1.0	17.1	21.0	25.0
AC071BNAPKG/EU	AC071BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC100BNTPKG/EU	AC100BXAPKG/EU	50	220 to 240	198	264	28.0	28.0	1.0	19.0	29.0	35.0
AC100BNTPKG/EU	AC100BXAPNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	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

Wall Mount Type

(1) AC026BNAPKG/EU + AC026BXAPKG/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
-20	3.48	2.63	0.72	3.67	2.71	0.73	3.82	2.79	0.75	3.94	2.88	0.76	4.02	2.85	0.77	4.22	2.82	0.78	4.43	2.77	0.80
21	3.45	2.47	0.73	3.63	2.54	0.75	3.78	2.62	0.76	3.90	2.70	0.78	3.98	2.68	0.79	4.18	2.65	0.80	4.39	2.60	0.81
35	2.30	1.83	0.61	2.42	1.88	0.62	2.52	1.94	0.64	2.60	2.00	0.65	2.65	1.98	0.66	2.78	1.96	0.66	2.92	1.92	0.68
46	2.99	2.35	1.65	3.15	2.42	1.69	3.28	2.50	1.72	3.38	2.58	1.76	3.45	2.55	1.77	3.62	2.53	1.79	3.80	2.47	1.83
52	2.65	2.29	1.47	2.78	2.36	1.50	2.90	2.44	1.53	2.99	2.51	1.56	3.05	2.49	1.58	3.20	2.46	1.59	3.36	2.41	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
-25	2.5	1.28	2.4	1.27	2.4	1.25	2.4	1.24	2.4	1.23	2.3	1.22
-15	3.4	2.03	3.3	2.01	3.3	1.99	3.3	1.97	3.2	1.95	3.2	1.93
-5	4.2	2.14	4.2	2.11	4.1	2.09	4.1	2.07	4.0	2.05	4.0	2.03
0	4.1	1.84	4.1	1.82	4.1	1.80	4.0	1.78	4.0	1.76	3.9	1.75
7	3.4	0.88	3.3	0.87	3.3	0.87	3.3	0.86	3.2	0.85	3.2	0.84
24	5.3	1.61	5.3	1.60	5.2	1.58	5.2	1.57	5.1	1.55	5.1	1.54

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(2) AC035BNAPKG/EU + AC035BXAPKG/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
-20	4.69	3.82	0.95	4.94	3.93	0.97	5.14	4.06	0.99	5.30	4.18	1.01	5.41	4.14	1.02	5.68	4.10	1.03	5.96	4.02	1.05
21	4.64	3.58	0.97	4.89	3.69	0.99	5.09	3.80	1.01	5.25	3.92	1.03	5.36	3.88	1.04	5.62	3.84	1.05	5.90	3.77	1.07
35	3.10	2.65	0.81	3.26	2.73	0.83	3.40	2.82	0.84	3.50	2.91	0.86	3.57	2.88	0.87	3.75	2.85	0.88	3.94	2.79	0.89
46	4.03	3.41	2.19	4.24	3.52	2.23	4.41	3.63	2.28	4.55	3.74	2.32	4.64	3.70	2.35	4.87	3.66	2.37	5.12	3.59	2.42
52	3.56	3.09	1.94	3.75	3.18	1.98	3.90	3.28	2.02	4.03	3.38	2.06	4.11	3.35	2.08	4.31	3.31	2.11	4.53	3.25	2.15

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
-25	3.06	1.46	3.03	1.45	3.00	1.44	2.97	1.42	2.94	1.41	2.91	1.39
-15	4.08	2.32	4.04	2.30	4.00	2.28	3.96	2.25	3.92	2.23	3.88	2.21
-5	5.10	2.44	5.05	2.42	5.00	2.40	4.95	2.37	4.90	2.35	4.85	2.32
0	5.02	2.10	4.97	2.08	4.92	2.06	4.87	2.04	4.82	2.02	4.77	2.00
7	4.08	1.01	4.04	1.00	4.00	0.99	3.96	0.98	3.92	0.97	3.88	0.96
24	6.45	1.85	6.38	1.83	6.32	1.81	6.26	1.79	6.19	1.78	6.13	1.76

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(3) AC052BNAPKG/EU + AC052BXAPKG/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
-20	5.64	4.18	1.12	5.94	4.30	1.14	6.18	4.44	1.16	6.38	4.57	1.19	6.50	4.53	1.20	6.83	4.48	1.21	7.17	4.39	1.23
21	5.53	3.78	1.26	5.82	3.90	1.28	6.06	4.02	1.31	6.25	4.14	1.33	6.38	4.10	1.35	6.69	4.06	1.36	7.03	3.98	1.39
35	4.42	3.56	1.20	4.66	3.67	1.22	4.85	3.78	1.24	5.00	3.90	1.27	5.10	3.86	1.28	5.36	3.82	1.30	5.62	3.75	1.32
46	5.31	3.84	2.57	5.59	3.96	2.62	5.82	4.09	2.68	6.00	4.21	2.73	6.12	4.17	2.76	6.43	4.13	2.79	6.75	4.05	2.84
52	3.54	3.29	1.73	3.72	3.39	1.77	3.88	3.49	1.80	4.00	3.60	1.84	4.08	3.56	1.86	4.28	3.53	1.88	4.50	3.46	1.92

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
-25	3.55	1.93	3.51	1.91	3.48	1.90	3.45	1.88	3.41	1.86	3.38	1.84
-15	6.12	3.03	6.06	3.00	6.00	2.97	5.94	2.94	5.88	2.91	5.82	2.88
-5	7.53	3.30	7.45	3.27	7.38	3.24	7.31	3.21	7.23	3.17	7.16	3.14
0	7.47	2.82	7.39	2.79	7.32	2.77	7.25	2.74	7.17	2.71	7.10	2.68
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	10.10	2.66	10.00	2.63	9.90	2.61	9.80	2.58	9.70	2.56	9.61	2.53

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(4) AC071BNAPKG/EU + AC071BXAPKG/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
-20	7.93	5.49	1.82	8.35	5.66	1.86	8.69	5.84	1.90	8.96	6.02	1.94	9.14	5.96	1.96	9.60	5.90	1.98	10.08	5.78	2.02
21	7.85	4.92	2.07	8.26	5.07	2.11	8.61	5.23	2.16	8.88	5.39	2.20	9.05	5.34	2.22	9.51	5.28	2.25	9.98	5.18	2.29
35	6.28	4.63	2.05	6.61	4.77	2.09	6.89	4.92	2.14	7.10	5.07	2.18	7.24	5.02	2.20	7.60	4.97	2.22	7.98	4.87	2.27
46	6.28	4.58	2.98	6.61	4.73	3.04	6.89	4.87	3.10	7.10	5.02	3.16	7.24	4.97	3.19	7.60	4.92	3.22	7.98	4.82	3.29
52	3.64	3.76	2.26	3.83	3.87	2.30	3.99	3.99	2.35	4.12	4.12	2.40	4.20	4.08	2.42	4.41	4.04	2.45	4.63	3.96	2.49

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
-25	5.06	3.25	5.01	3.21	4.96	3.18	4.91	3.15	4.86	3.12	4.81	3.09
-15	8.16	4.55	8.08	4.50	8.00	4.46	7.92	4.41	7.84	4.37	7.76	4.33
-5	8.32	4.79	8.24	4.75	8.16	4.70	8.08	4.65	8.00	4.61	7.92	4.56
0	9.14	4.67	9.05	4.62	8.96	4.58	8.87	4.53	8.78	4.49	8.69	4.44
7	8.16	2.46	8.08	2.43	8.00	2.41	7.92	2.39	7.84	2.36	7.76	2.34
24	9.63	2.75	9.53	2.73	9.44	2.70	9.35	2.67	9.25	2.65	9.16	2.62

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(5) AC071BNAPKG/EU + AC071BXAPNG/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
-20	7.93	5.49	1.82	8.35	5.66	1.86	8.69	5.84	1.90	8.96	6.02	1.94	9.14	5.96	1.96	9.60	5.90	1.98	10.08	5.78	2.02
21	7.85	4.92	2.07	8.26	5.07	2.11	8.61	5.23	2.16	8.88	5.39	2.20	9.05	5.34	2.22	9.51	5.28	2.25	9.98	5.18	2.29
35	6.28	4.63	2.05	6.61	4.77	2.09	6.89	4.92	2.14	7.10	5.07	2.18	7.24	5.02	2.20	7.60	4.97	2.22	7.98	4.87	2.27
46	6.28	4.58	2.98	6.61	4.73	3.04	6.89	4.87	3.10	7.10	5.02	3.16	7.24	4.97	3.19	7.60	4.92	3.22	7.98	4.82	3.29
52	3.64	3.76	2.26	3.83	3.87	2.30	3.99	3.99	2.35	4.12	4.12	2.40	4.20	4.08	2.42	4.41	4.04	2.45	4.63	3.96	2.49

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
-25	5.06	3.25	5.01	3.21	4.96	3.18	4.91	3.15	4.86	3.12	4.81	3.09
-15	8.16	4.55	8.08	4.50	8.00	4.46	7.92	4.41	7.84	4.37	7.76	4.33
-5	8.32	4.79	8.24	4.75	8.16	4.70	8.08	4.65	8.00	4.61	7.92	4.56
0	9.14	4.67	9.05	4.62	8.96	4.58	8.87	4.53	8.78	4.49	8.69	4.44
7	8.16	2.46	8.08	2.43	8.00	2.41	7.92	2.39	7.84	2.36	7.76	2.34
24	9.63	2.75	9.53	2.73	9.44	2.70	9.35	2.67	9.25	2.65	9.16	2.62

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(6) AC100BNTPKG/EU + AC100BXAPKG/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
-20	11.08	7.57	2.45	11.66	7.80	2.50	12.15	8.04	2.55	12.52	8.29	2.60	12.77	8.21	2.63	13.41	8.13	2.66	14.08	7.96	2.71
21	10.97	7.49	2.53	11.54	7.72	2.58	12.03	7.96	2.63	12.40	8.21	2.69	12.65	8.13	2.71	13.28	8.05	2.74	13.94	7.88	2.79
35	8.40	6.04	2.58	8.85	6.23	2.63	9.22	6.42	2.69	9.50	6.62	2.74	9.69	6.56	2.77	10.17	6.49	2.79	10.68	6.36	2.85
46	8.91	6.47	4.13	9.38	6.67	4.21	9.77	6.88	4.30	10.07	7.09	4.38	10.27	7.02	4.43	10.78	6.95	4.47	11.32	6.81	4.56
52	5.71	5.13	2.71	6.02	5.29	2.76	6.27	5.45	2.82	6.46	5.62	2.88	6.59	5.56	2.91	6.92	5.51	2.93	7.26	5.40	2.99

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
-25	8.93	5.07	8.84	5.02	8.75	4.97	8.66	4.92	8.58	4.87	8.49	4.82
-15	12.75	7.39	12.63	7.32	12.50	7.25	12.38	7.17	12.25	7.10	12.13	7.03
-5	13.77	7.04	13.64	6.97	13.50	6.90	13.37	6.83	13.23	6.76	13.10	6.70
0	13.66	6.33	13.53	6.27	13.39	6.21	13.26	6.15	13.13	6.09	12.99	6.03
7	11.02	3.52	10.91	3.48	10.80	3.45	10.69	3.42	10.59	3.38	10.48	3.35
24	14.54	4.05	14.40	4.01	14.26	3.97	14.11	3.93	13.97	3.89	13.83	3.85

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

Wall Mount Type

(7) AC100BNTPKG/EU + AC100BXAPNG/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
-20	11.08	7.57	2.45	11.66	7.80	2.50	12.15	8.04	2.55	12.52	8.29	2.60	12.77	8.21	2.63	13.41	8.13	2.66	14.08	7.96	2.71
21	10.97	7.49	2.53	11.54	7.72	2.58	12.03	7.96	2.63	12.40	8.21	2.69	12.65	8.13	2.71	13.28	8.05	2.74	13.94	7.88	2.79
35	8.40	6.04	2.58	8.85	6.23	2.63	9.22	6.42	2.69	9.50	6.62	2.74	9.69	6.56	2.77	10.17	6.49	2.79	10.68	6.36	2.85
46	8.91	6.47	4.13	9.38	6.67	4.21	9.77	6.88	4.30	10.07	7.09	4.38	10.27	7.02	4.43	10.78	6.95	4.47	11.32	6.81	4.56
52	5.71	5.13	2.71	6.02	5.29	2.76	6.27	5.45	2.82	6.46	5.62	2.88	6.59	5.56	2.91	6.92	5.51	2.93	7.26	5.40	2.99

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
-25	8.93	5.07	8.84	5.02	8.75	4.97	8.66	4.92	8.58	4.87	8.49	4.82
-15	12.75	7.39	12.63	7.32	12.50	7.25	12.38	7.17	12.25	7.10	12.13	7.03
-5	13.77	7.04	13.64	6.97	13.50	6.90	13.37	6.83	13.23	6.76	13.10	6.70
0	13.66	6.33	13.53	6.27	13.39	6.21	13.26	6.15	13.13	6.09	12.99	6.03
7	11.02	3.52	10.91	3.48	10.80	3.45	10.69	3.42	10.59	3.38	10.48	3.35
24	14.54	4.05	14.40	4.01	14.26	3.97	14.11	3.93	13.97	3.89	13.83	3.85

NOTE

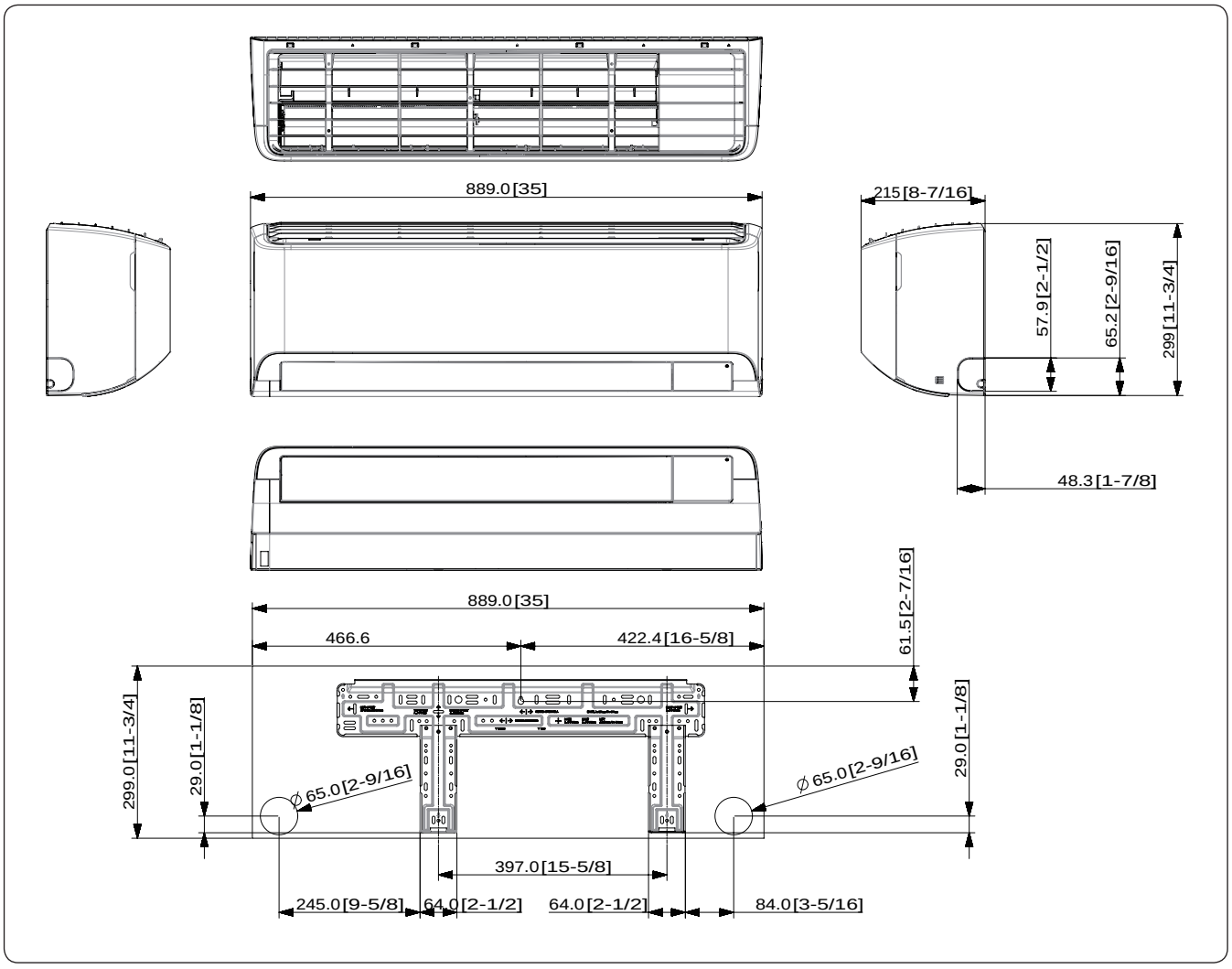
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wall Mount Type

AC026/035BNAPKG/EU

Unit: mm (inches)

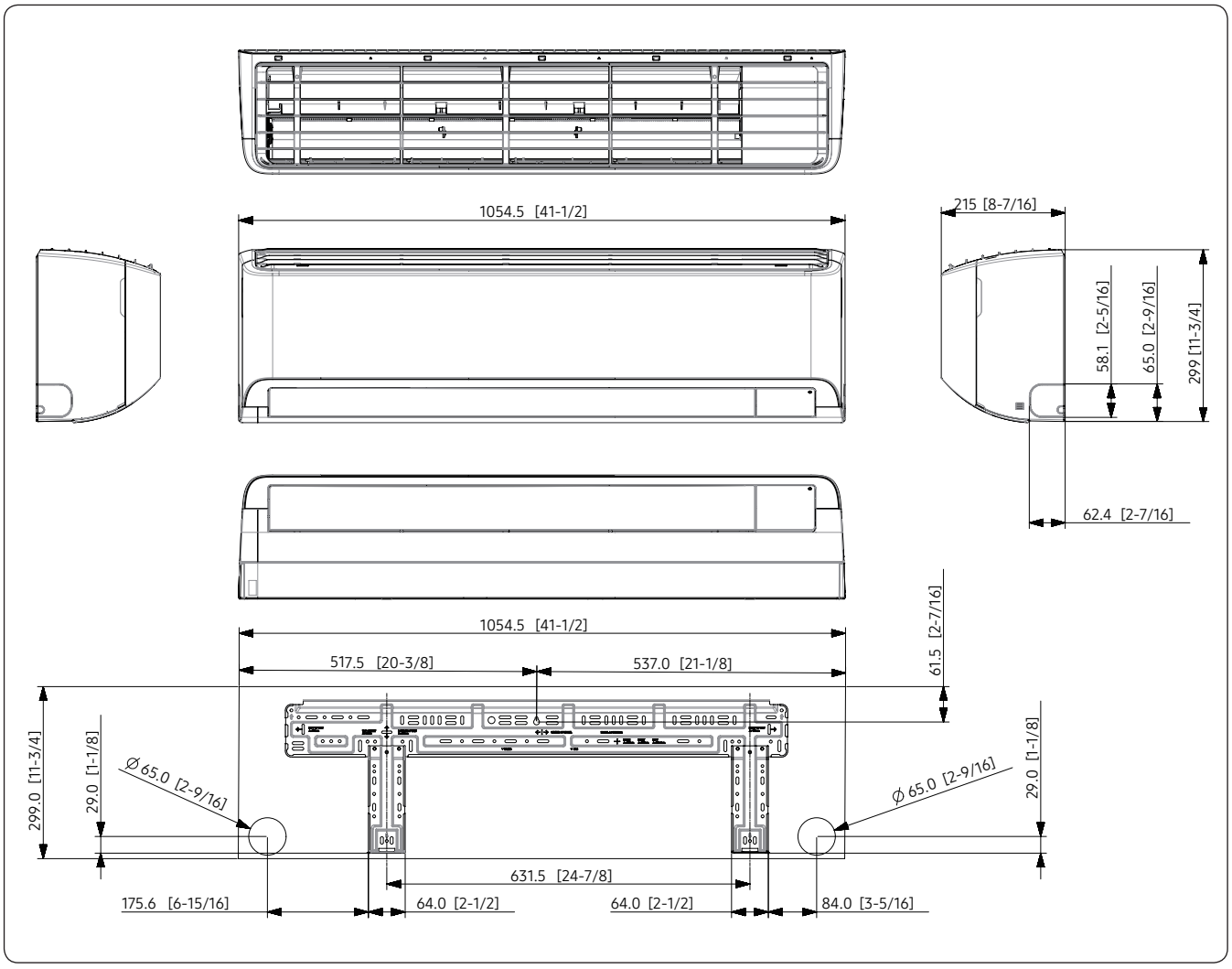


4. Dimensional Drawing

Wall Mount Type

AC052/071BNAPKG/EU

Unit: mm (inches)

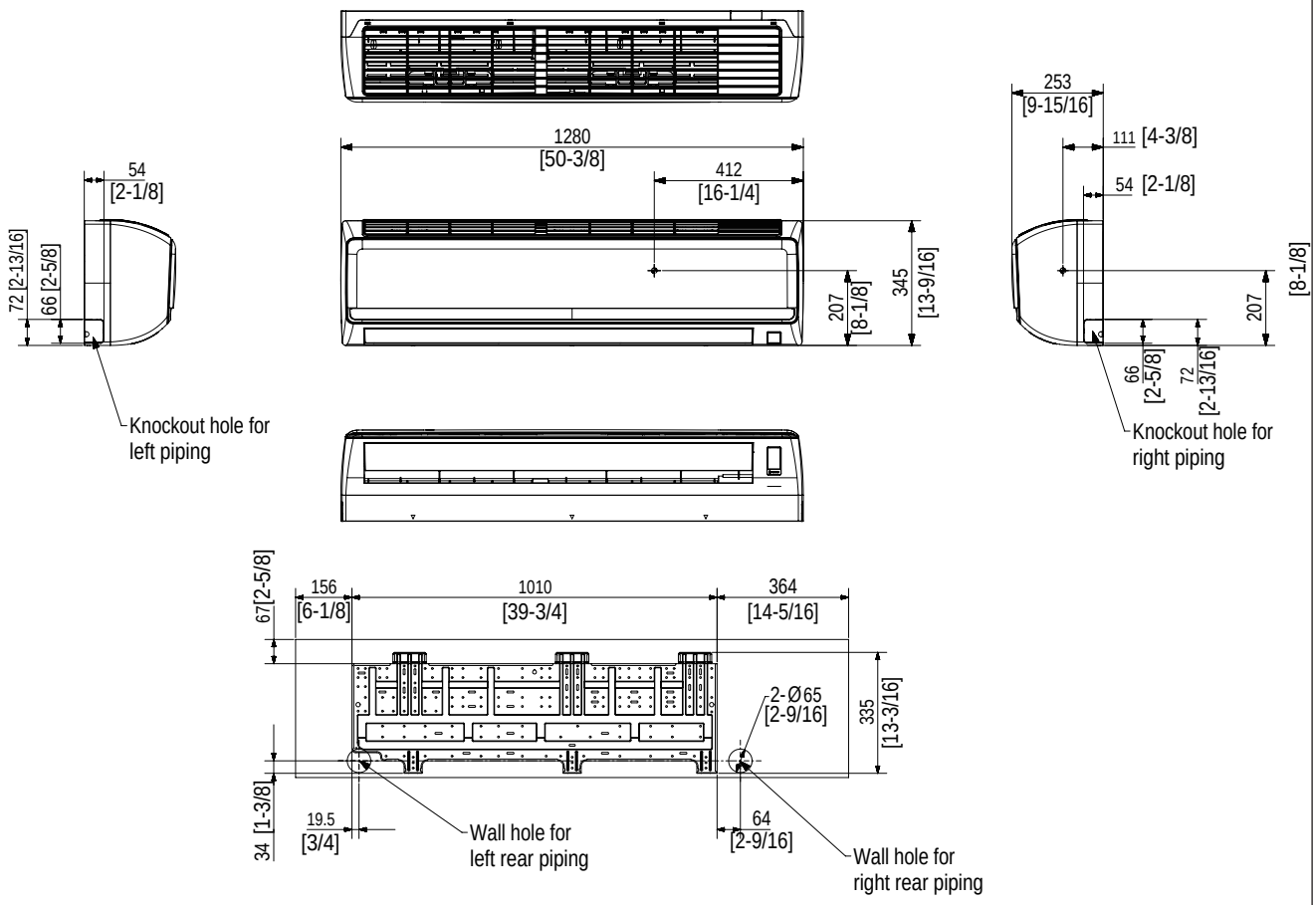


4. Dimensional Drawing

Wall Mount Type

AC100BNTPKG/EU

Unit: mm (inches)

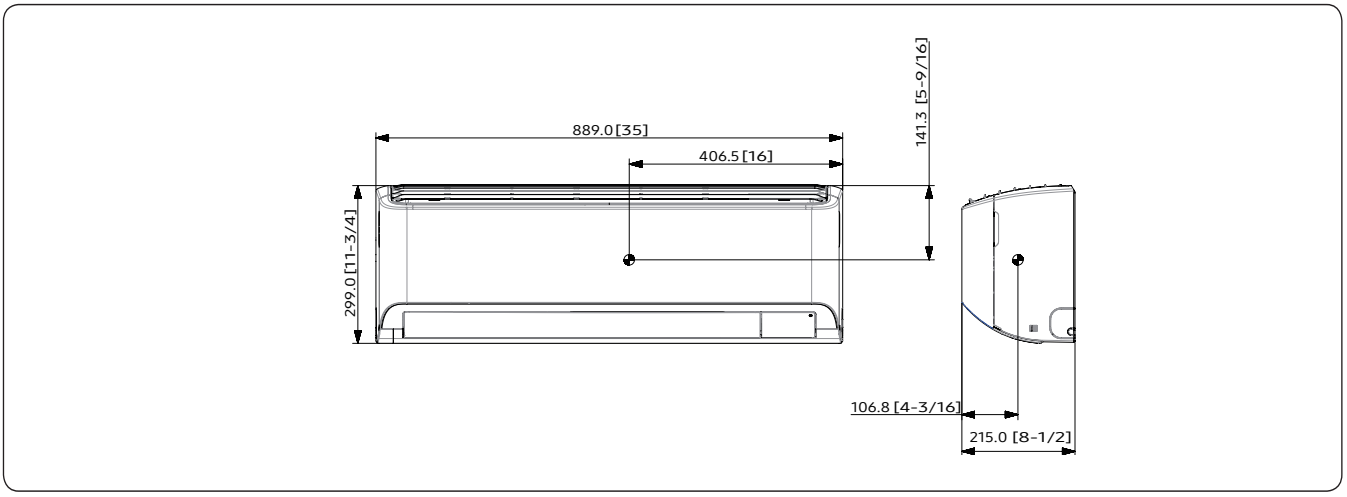


5. Center of Gravity

Wall Mount Type

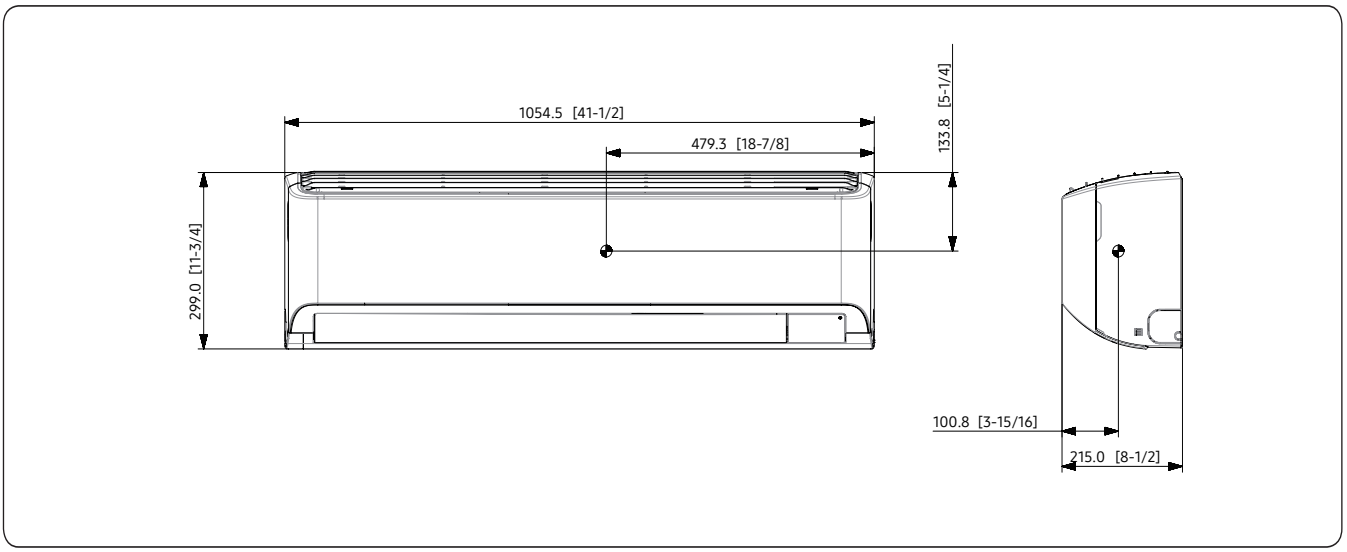
AC026/035BNAPKG/EU

Unit: mm (inches)



AC052/071BNAPKG/EU

Unit: mm (inches)

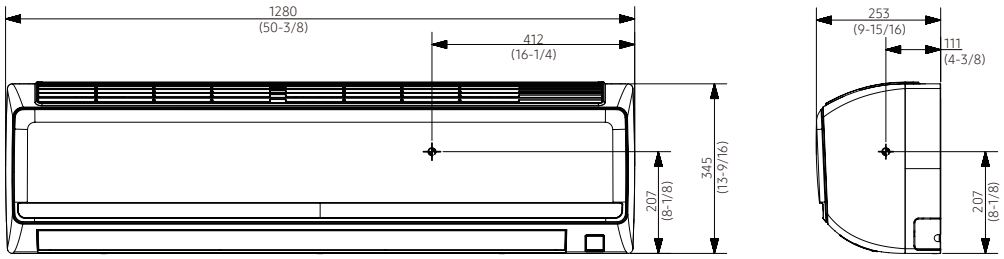


5. Center of Gravity

Wall Mount Type

AC100BNTPKG/EU

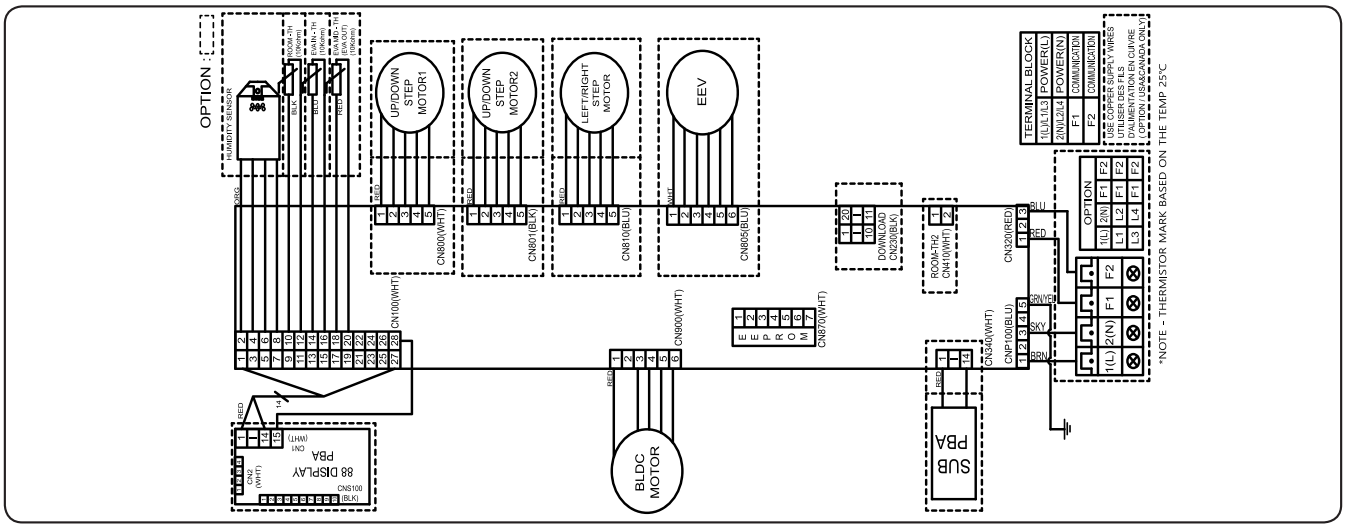
Unit: mm (inches)



6. Electrical Wiring Diagram

Wall Mount Type

AC026/035/052/071BNAPKG/EU



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)

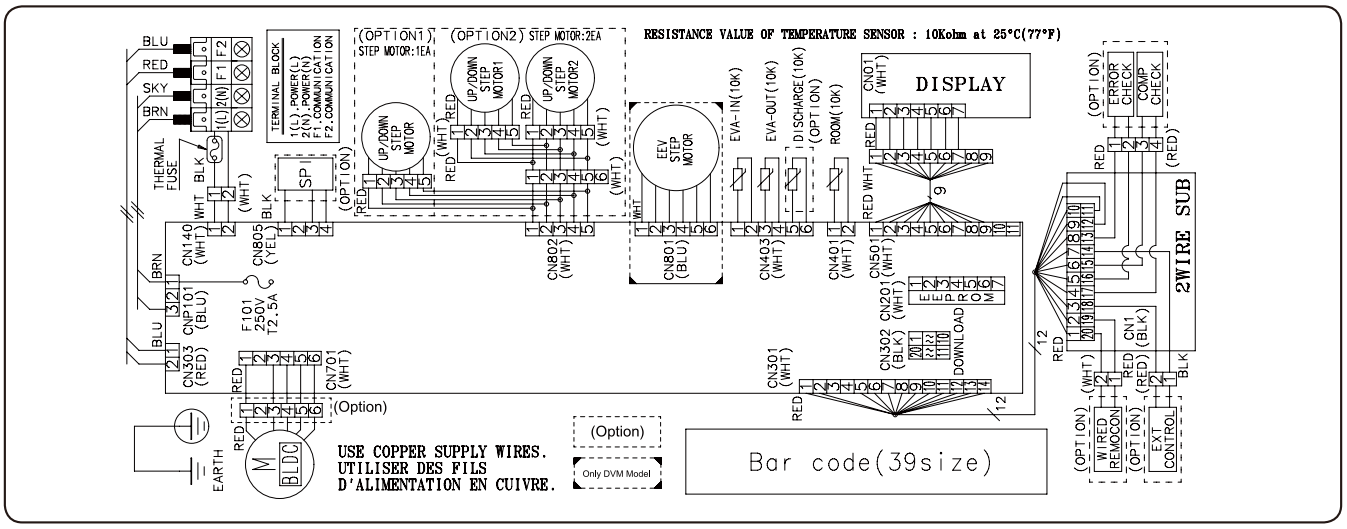
NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLU: 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

6. Electrical Wiring Diagram

Wall Mount Type

AC100BNTPKG/EU



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

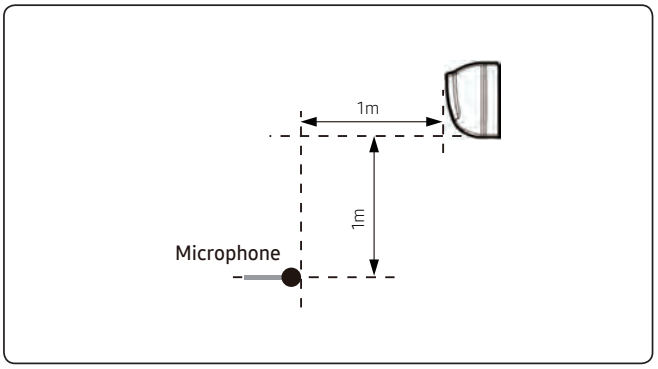
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLU: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue: GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N : The wire quantity

7. Sound Data

Wall Mount Type

Sound Pressure level

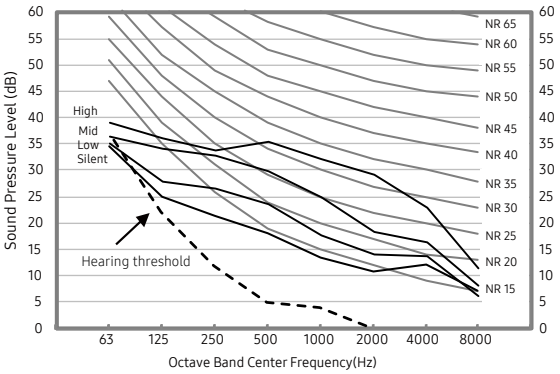
Unit: dB(A)



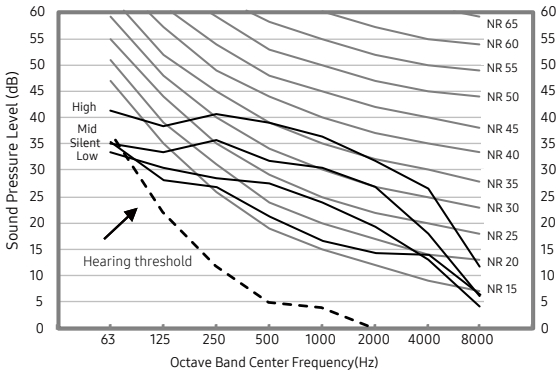
Model	High	Mid	Low	Silent
AC026BNAPKG/EU	37	31	25	21
AC035BNAPKG/EU	41	35	29	24
AC052BNAPKG/EU	42	37	32	25
AC071BNAPKG/EU	45	40	36	30

- NR Curve

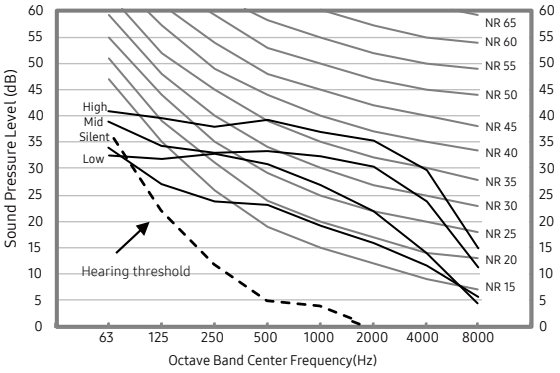
1) AC026BNAPKG/EU



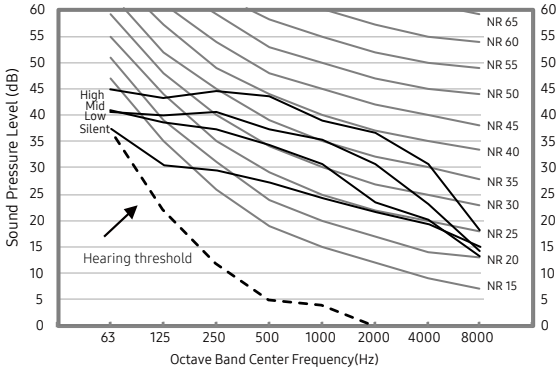
2) AC035BNAPKG/EU



3) AC052BNAPKG/EU



4) AC071BNAPKG/EU



NOTE

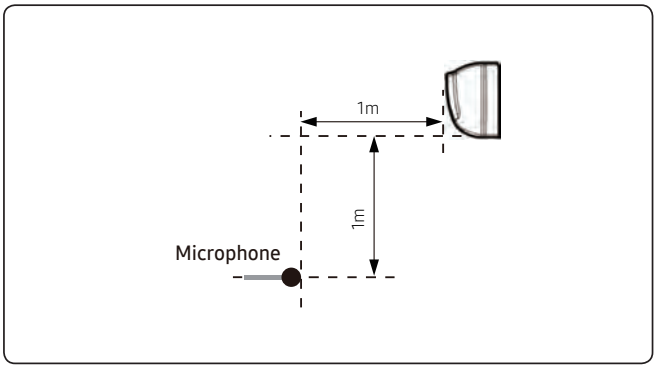
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

Wall Mount Type

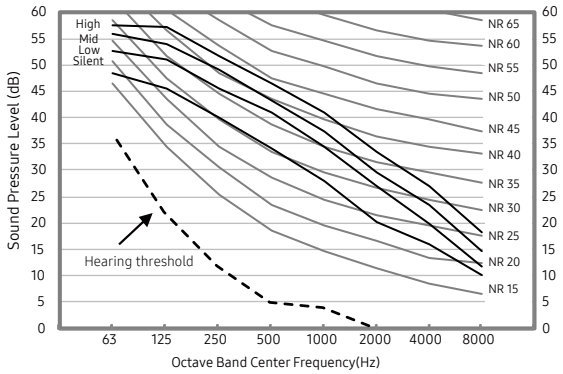
Sound Pressure level

Unit: dB(A)



Model	High	Mid	Low	Silent
AC100BNTPKG/EU	49	46	43	37

- NR Curve
  1) AC100BNTPKG/EU



NOTE

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  - 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 Mount Type

Sound Power level

NOTE

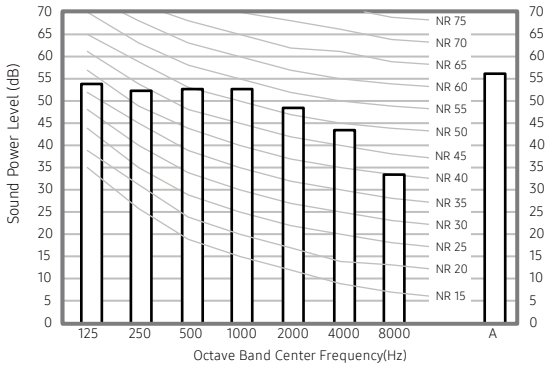
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

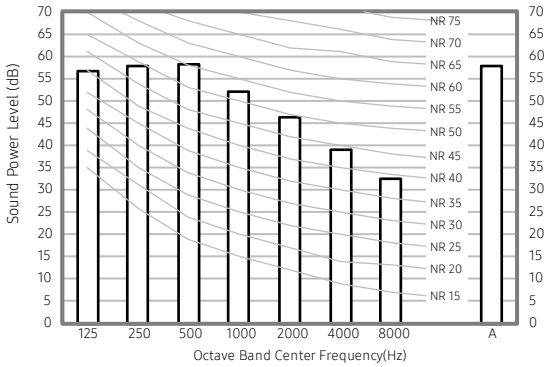
Model	Power
AC026BNAPKG/EU	56
AC035BNAPKG/EU	58
AC052BNAPKG/EU	58
AC071BNAPKG/EU	61

- NR Curve

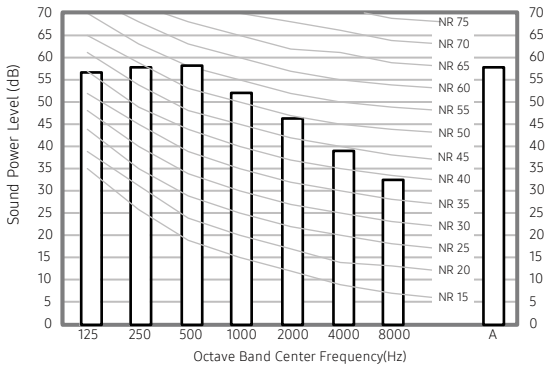
1) AC026MNADKH/EU



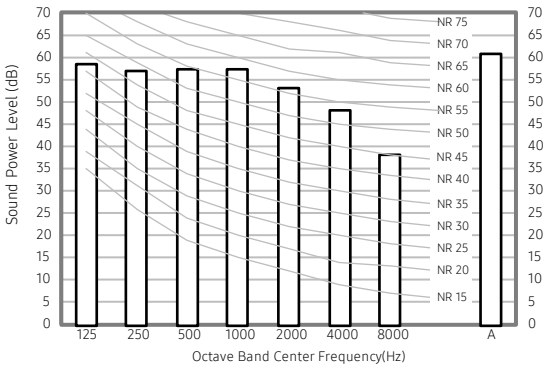
2) AC035BNAPKG/EU



3) AC052BNAPKG/EU



4) AC071BNAPKG/EU



7. Sound Data

Wall Mount Type

Sound Power level

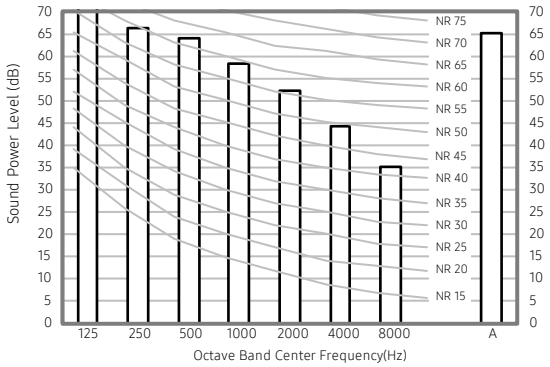
NOTE

- 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
AC100BNTPKG/EU	65

- NR Curve
  1) AC100BNTPKG/EU

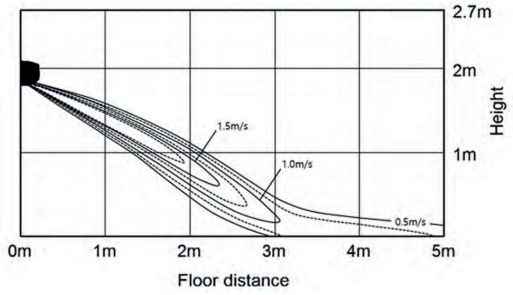


8.Temperature and air flow distribution

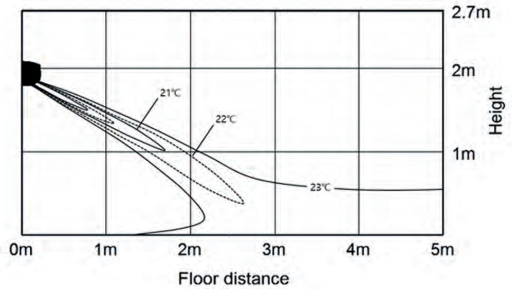
Wall Mount Type

AC026BNAPKG/EU

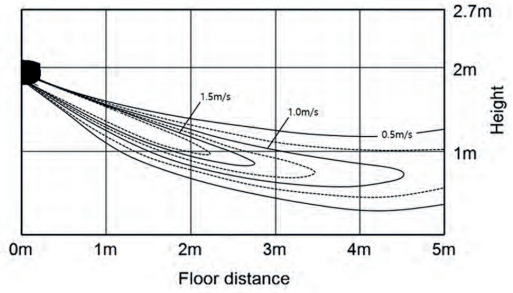
- Cooling Air Velocity distribution
  (Discharge angle : 20 degree)



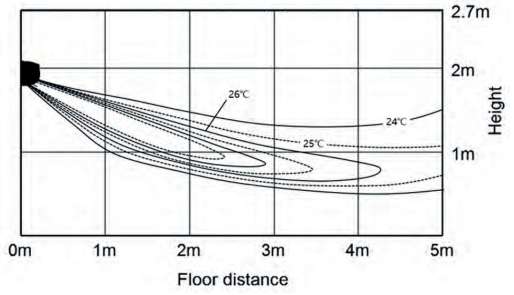
- Cooling temperature distribution
  (Discharge angle : 20 degree)



- Heating Air Velocity distribution
  (Discharge angle : 30 degree)



- Heating temperature distribution
  (Discharge angle : 30 degree)



AC071BN6PKG/EU

- Cooling Air Velocity distribution
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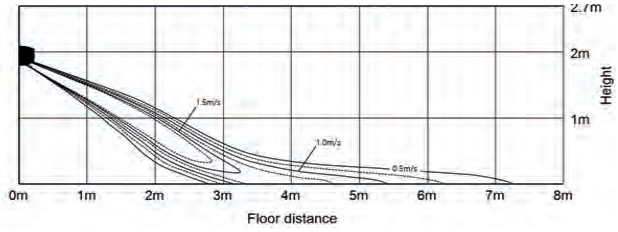
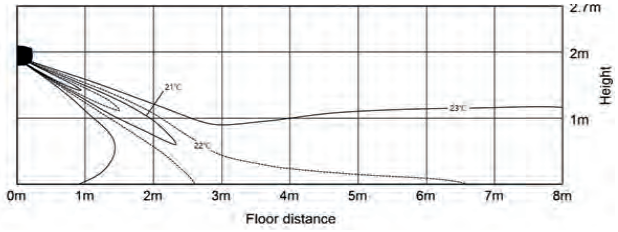
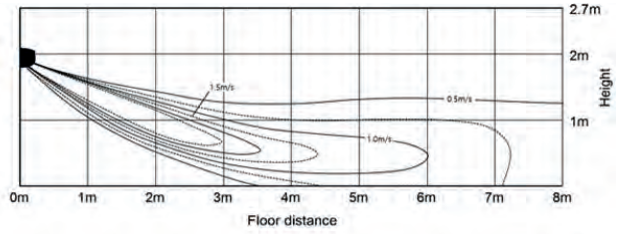


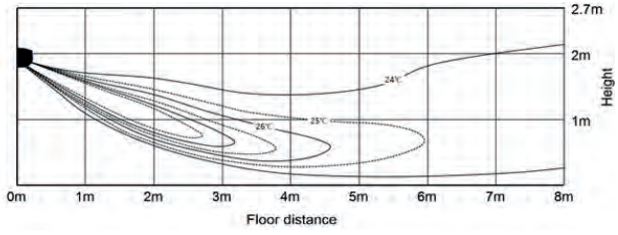
- Cooling temperature distribution
  (Discharge angle : 20 degree)



- Heating Air Velocity distribution
  (Discharge angle : 30 degree)



- Heating temperature distribution
  (Discharge angle : 30 degree)

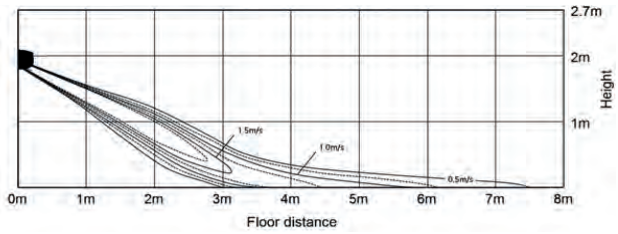


8.Temperature and air flow distribution

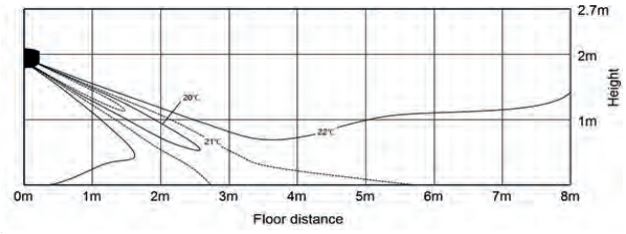
Wall Mount Type

AC052BNAPKG/EU

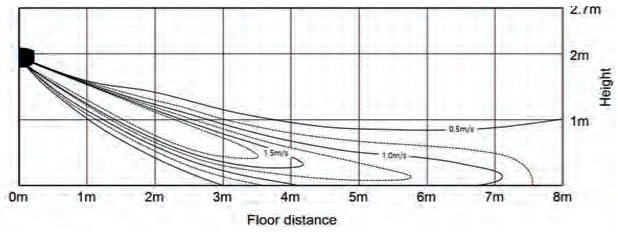
- Cooling Air Velocity distribution
  (Discharge angle : 20 degree)



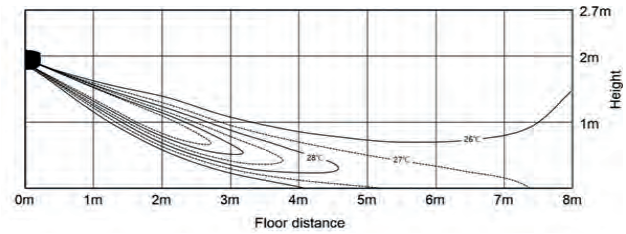
- Cooling temperature distribution
  (Discharge angle : 20 degree)



- Heating Air Velocity distribution
  (Discharge angle : 30 degree)

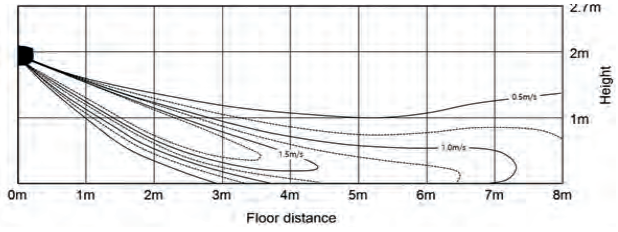


- Heating temperature distribution
  (Discharge angle : 30 degree)

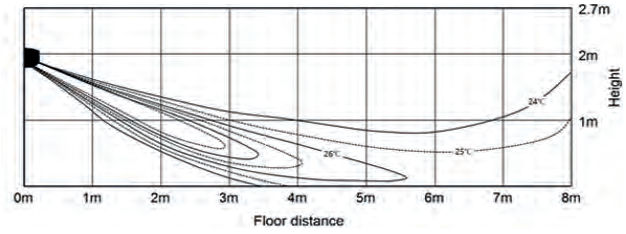


AC071BNAPKG/EU

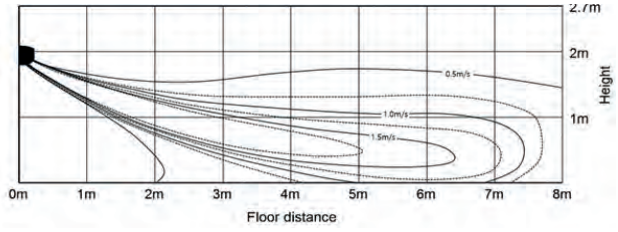
- Cooling Air Velocity distribution
  (Discharge angle : 20 degree)



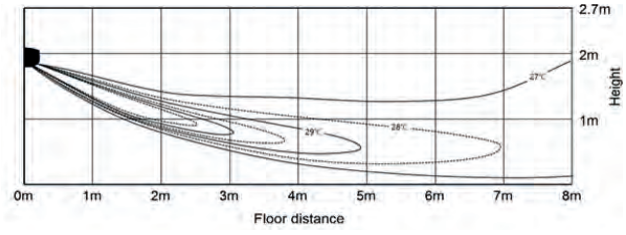
- Cooling temperature distribution
  (Discharge angle : 20 degree)



- Heating Air Velocity distribution
  (Discharge angle : 30 degree)



- Heating temperature distribution
  (Discharge angle : 30 degree)

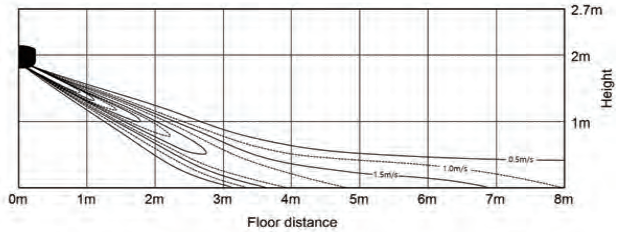


8.Temperature and air flow distribution

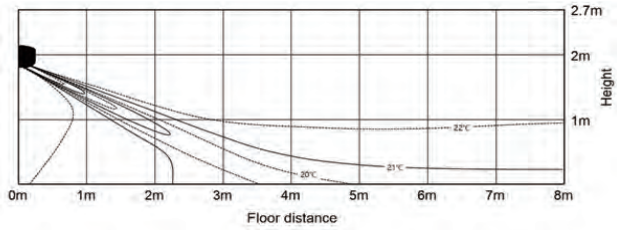
Wall Mount Type

AC100BNTPKG/EU

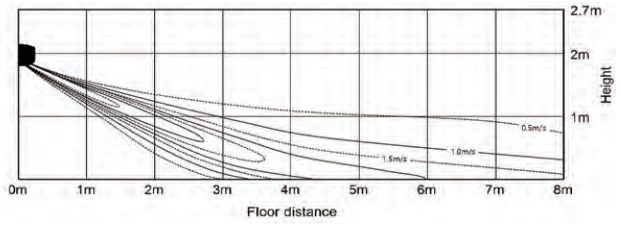
- Cooling Air Velocity distribution
  (Discharge angle : 27 degree)



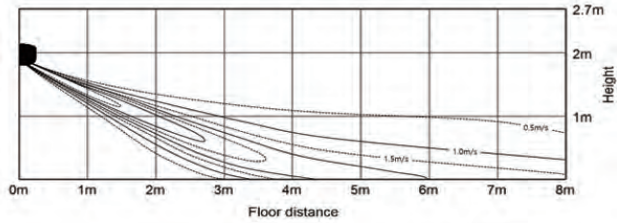
- Cooling temperature distribution
  (Discharge angle : 27 degree)



- Heating Air Velocity distribution
  (Discharge angle : 27 degree)



- Heating temperature distribution
  (Discharge angle : 27 degree)



Outdoor Units

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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	AC026BXAPKG/EU	880 x 638 x 310	43.0	40	45	45	59
3.5	AC035BXAPKG/EU	880 x 638 x 310	43.0	40	46	46	61
5.2	AC052BXAPKG/EU	880 x 798 x 310	50.0	55	47	48	63
7.1	AC071BXAPKG/EU	940 x 998 x 330	75.0	72	47	49	64
7.1	AC071BXAPNG/EU	940 x 998 x 330	74.0	72	47	49	64
10.0	AC100BXAPKG/EU	940 x 1,420 x 330	100.0	125	47	50	66
10.0	AC100BXAPNG/EU	940 x 1,420 x 330	100.0	125	47	50	66
12.0	AC120BXAPNG/EU	940 x 1,420 x 330	100.0	125	49	52	69
14.0	AC140BXAPNG/EU	940 x 1,420 x 330	100.0	125	50	52	70

NOTE

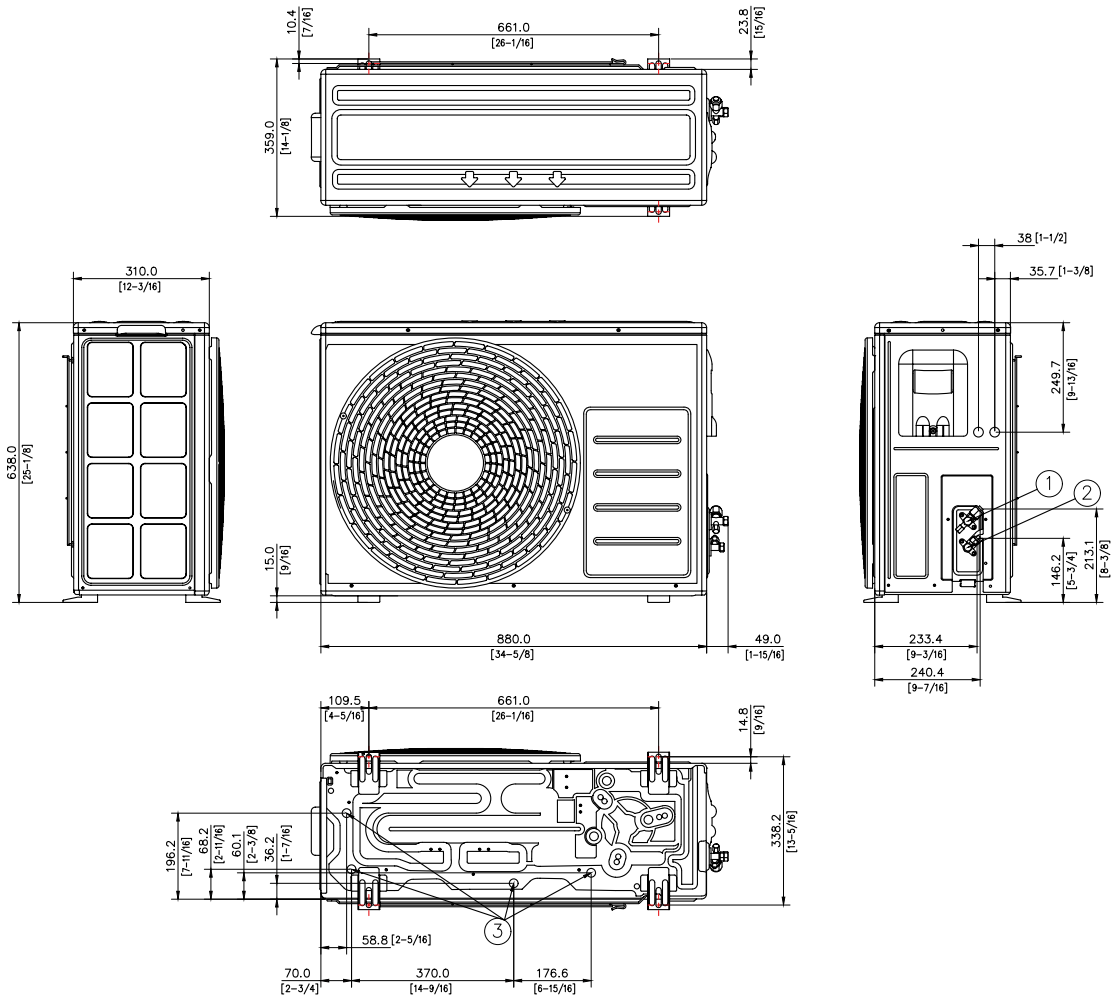
- Sound power level is based on cooling operation.

2. Dimensional Drawing

Outdoor units

AC026BXAPKG/EU, AC035BXAPKG/EU

Unit: mm (inches)



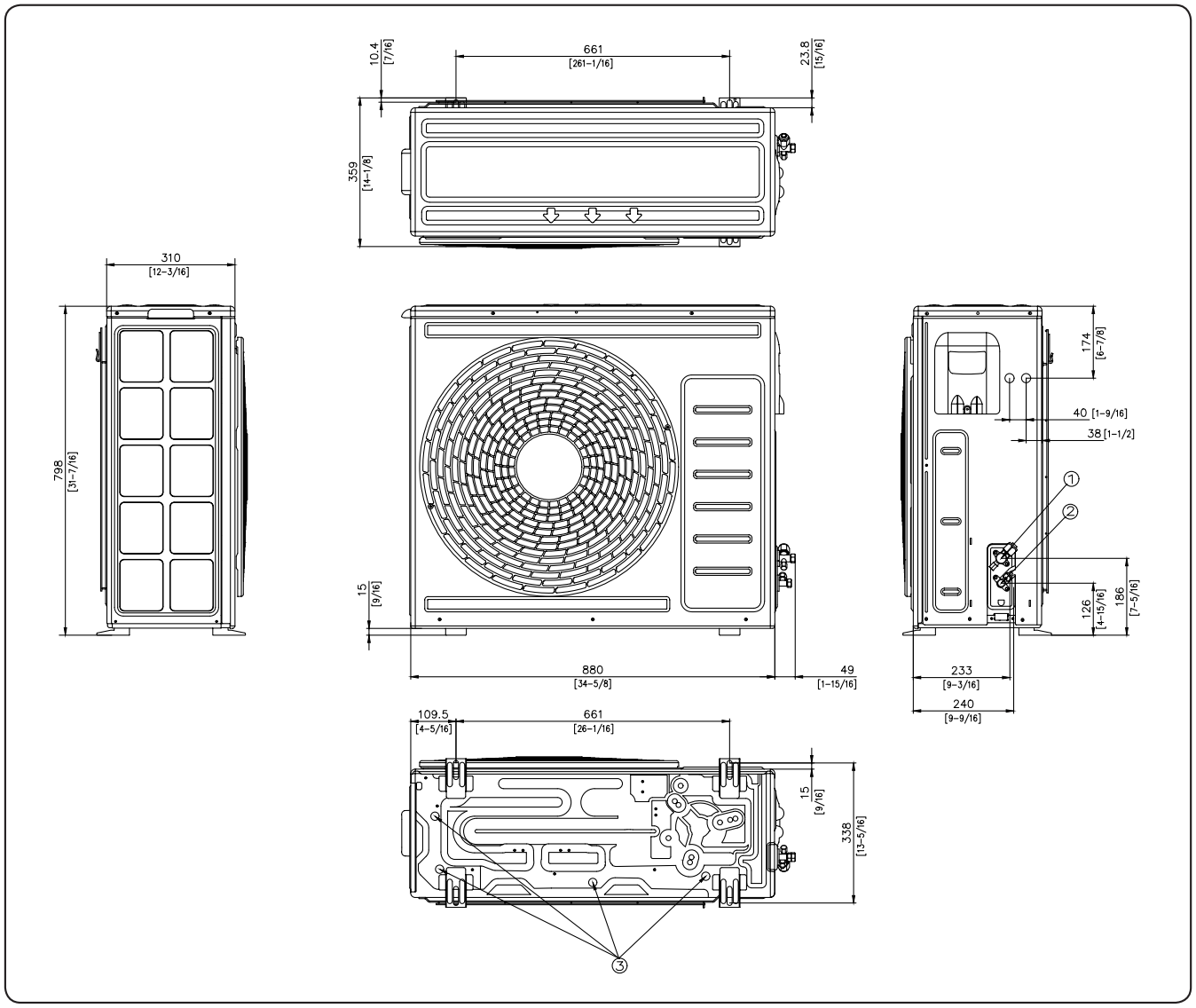
No.	Name	Description
1	Refrigerant gas pipe	Φ9.52(3/8)
2	Refrigerant liquid pipe	Φ6.35(1/4)
3	Drain Hole	Φ20

2. Dimensional Drawing

Outdoor units

AC052BXAPKG/EU

Unit: mm (inches)



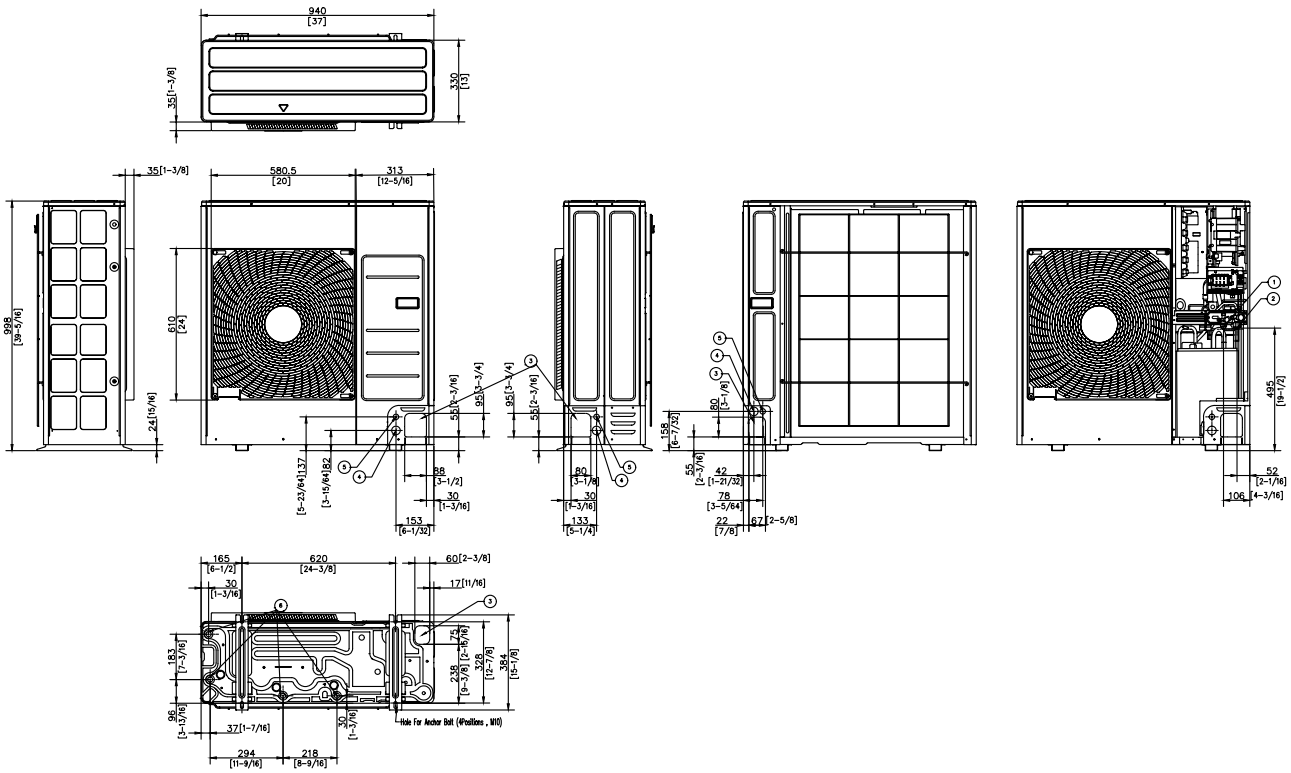
No.	Name	Description
1	Refrigerant gas pipe	Φ12.7(1/2)
2	Refrigerant liquid pipe	Φ6.35(1/4)
3	Drain Hole	Connection with the provided drain plug.

2. Dimensional Drawing

Outdoor units

AC071BXAPKG/EU, AC071BXAPNG/EU

Unit: mm (inches)



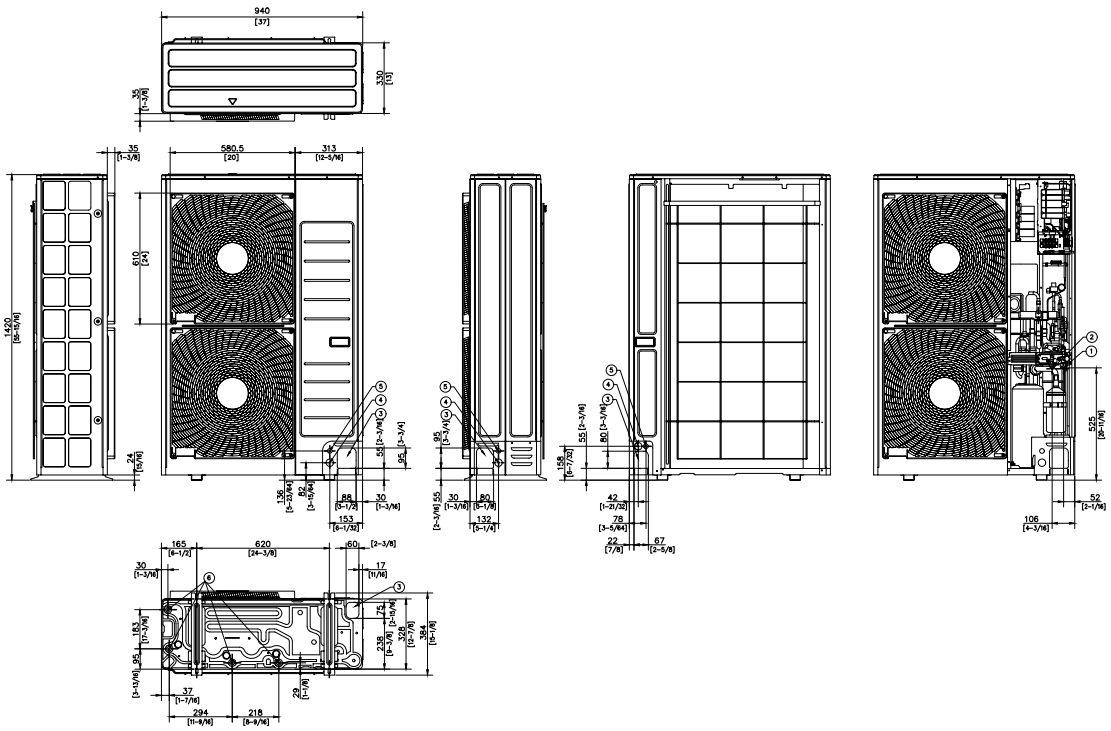
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear / Ø34 (1-3/8)
5	Communication wiring conduit	Front / Side / Rear / Ø22 (7/8)
6	Drain hole	Connect with the provided drain plug.

2. Dimensional Drawing

Outdoor units

AC100BXAPKG/EU, AC100BXAPNG/EU, AC120BXAPNG/EU, AC140BXAPNG/EU

Unit: mm (inches)



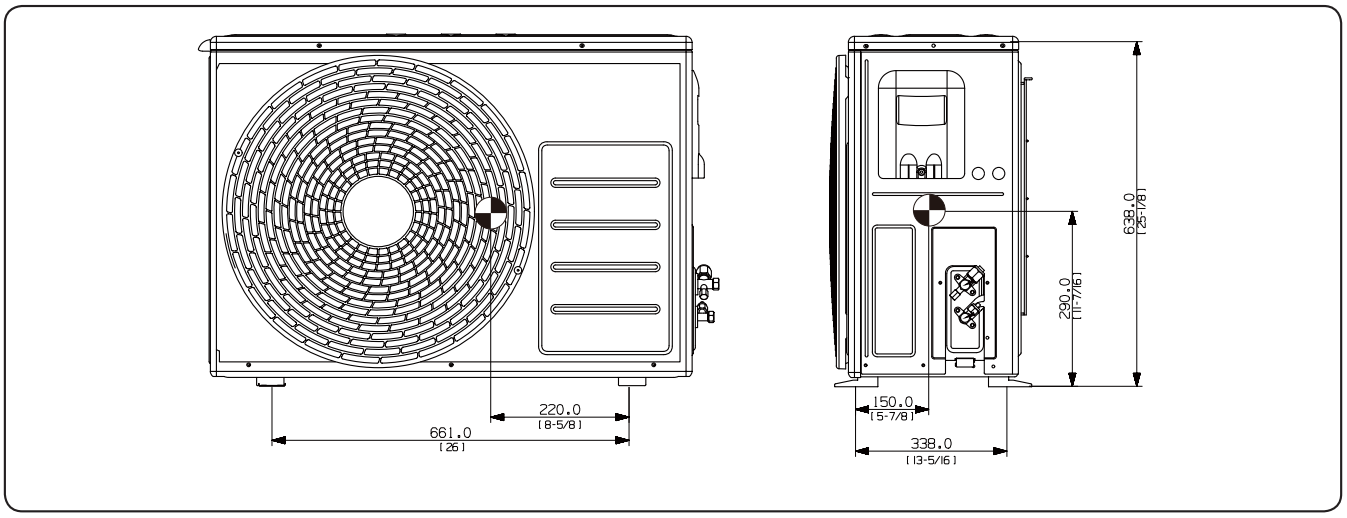
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear / Ø34 (1-3/8)
5	Communication wiring conduit	Front / Side / Rear / Ø22 (7/8)
6	Drain hole	Connect with the provided drain plug.

3. Center of Gravity

Outdoor units

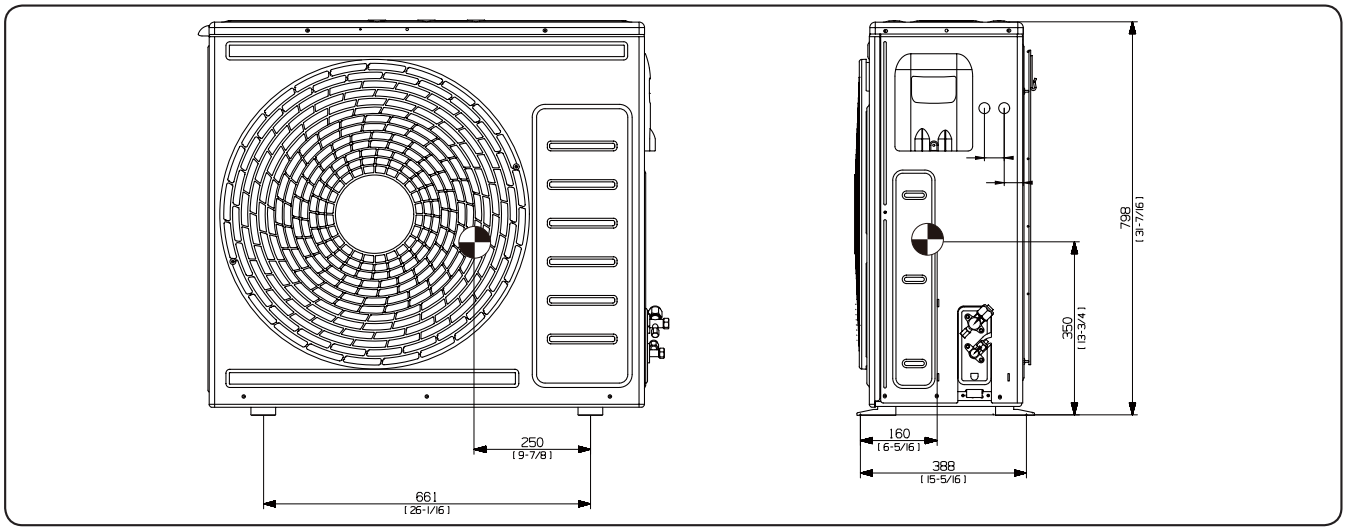
AC026/035BXAPKG/EU

Unit: mm (inches)



AC052BXAPKG/EU

Unit: mm (inches)

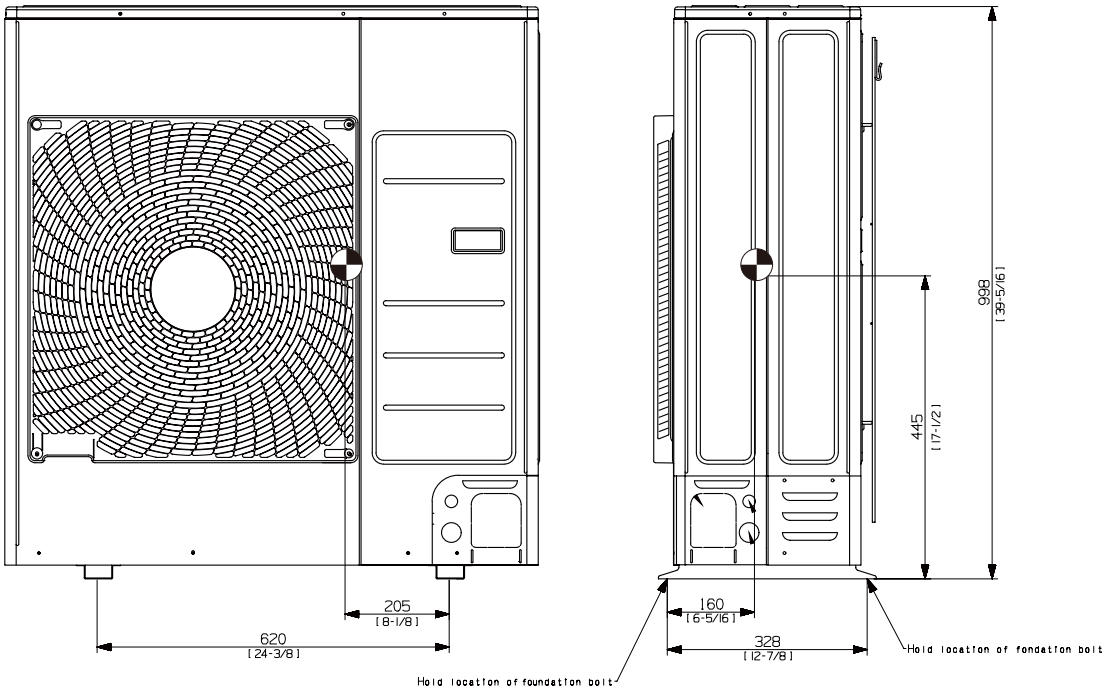


3. Center of Gravity

Outdoor units

AC071BXAPKG/EU, AC071BXAPNG/EU

Unit: mm (inches)

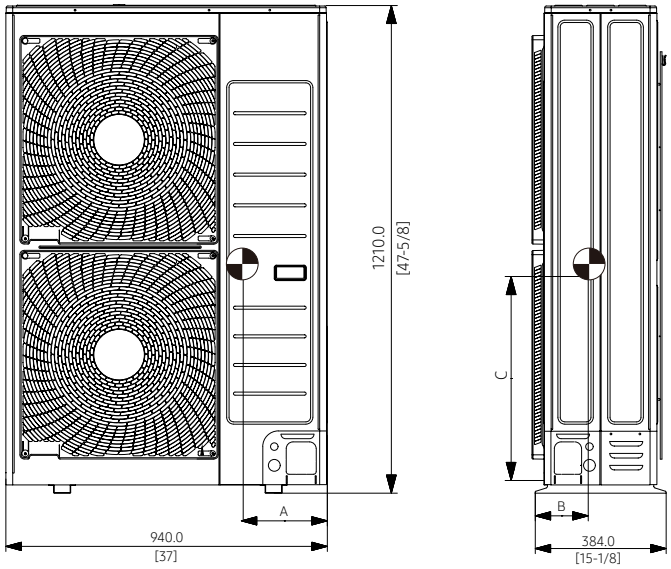


3. Center of Gravity

Outdoor units

AC100BXAPKG/EU, AC100BXAPNG/EU, AC120BXAPNG/EU, AC140BXAPNG/EU

Unit: mm (inches)

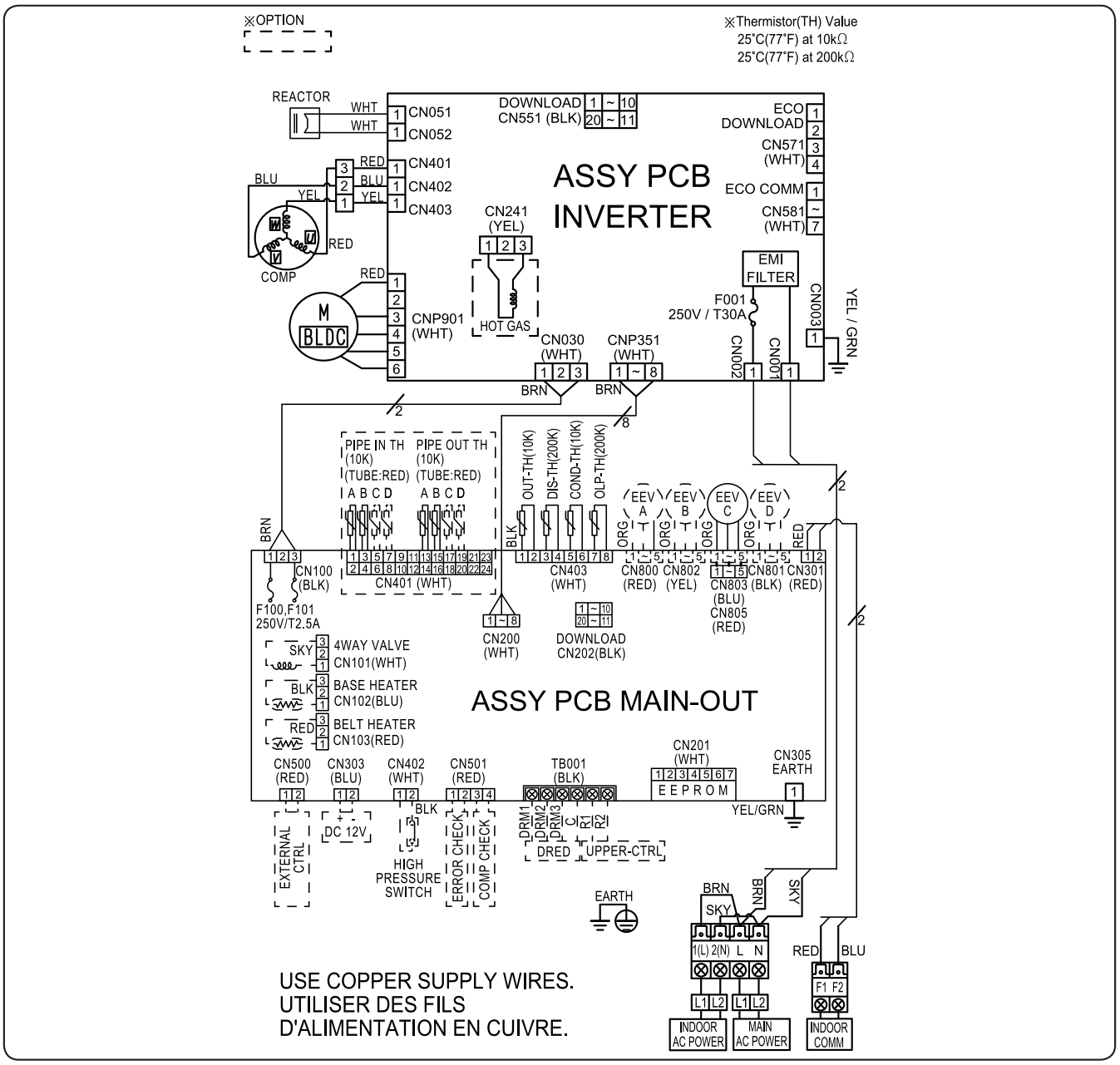


Model	A	B	C
AC100BXAPKG/EU	372 [14-5/8]	165 [6-1/2]	557 [21-15/16]
AC100BXAPNG/EU	372 [14-5/8]	165 [6-1/2]	557 [21-15/16]
AC120BXAPNG/EU	375 [14-3/4]	172 [6-3/4]	557 [21-15/16]
AC140BXAPNG/EU	375 [14-3/4]	172 [6-3/4]	557 [21-15/16]

4. Electrical Wiring Diagram

Outdoor Units

AC026/035/052BXAPKG/EU



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		

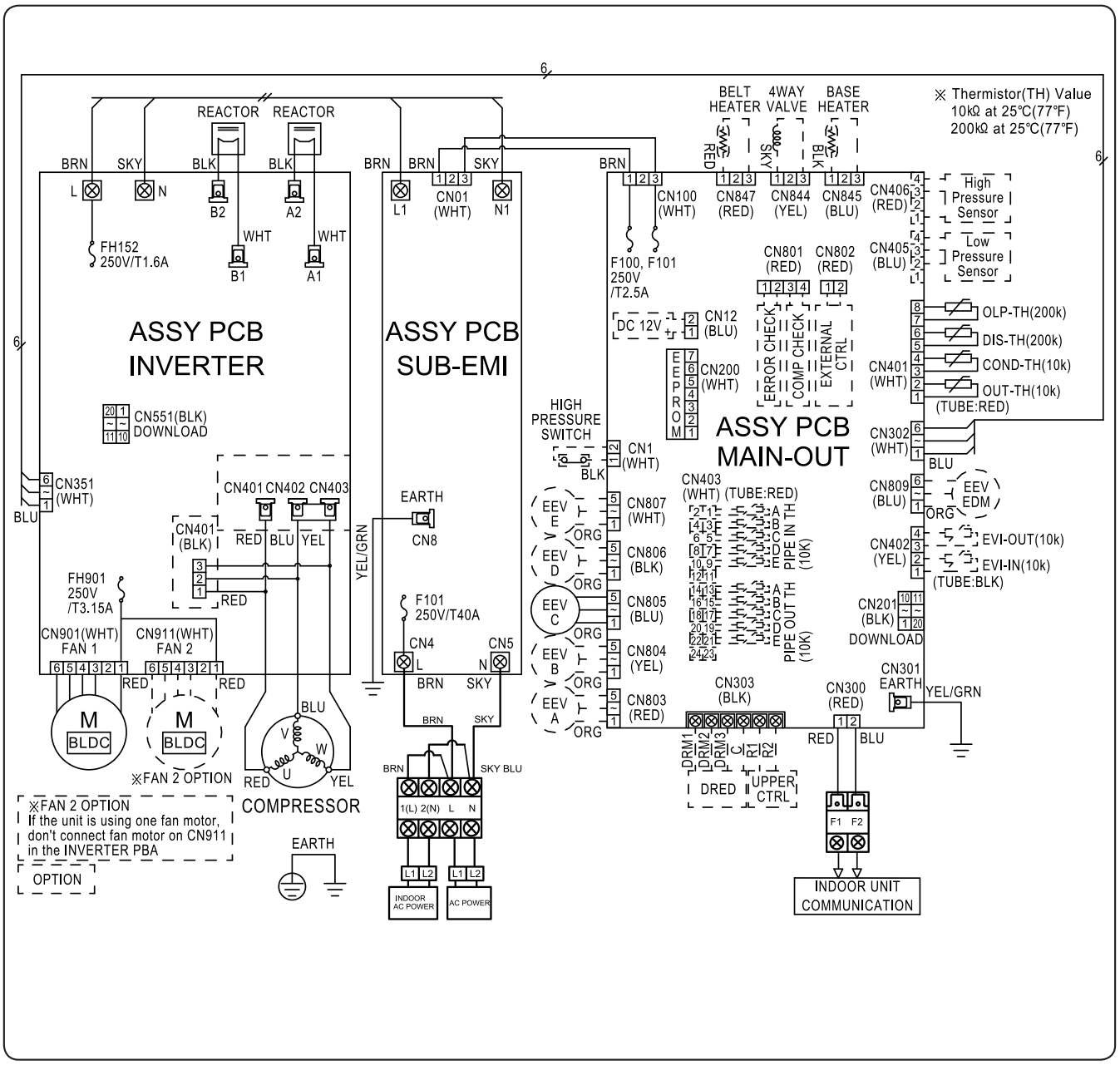
NOTE

- 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

4. Electrical Wiring Diagram

Outdoor Units

AC071BXAPKG/EU



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

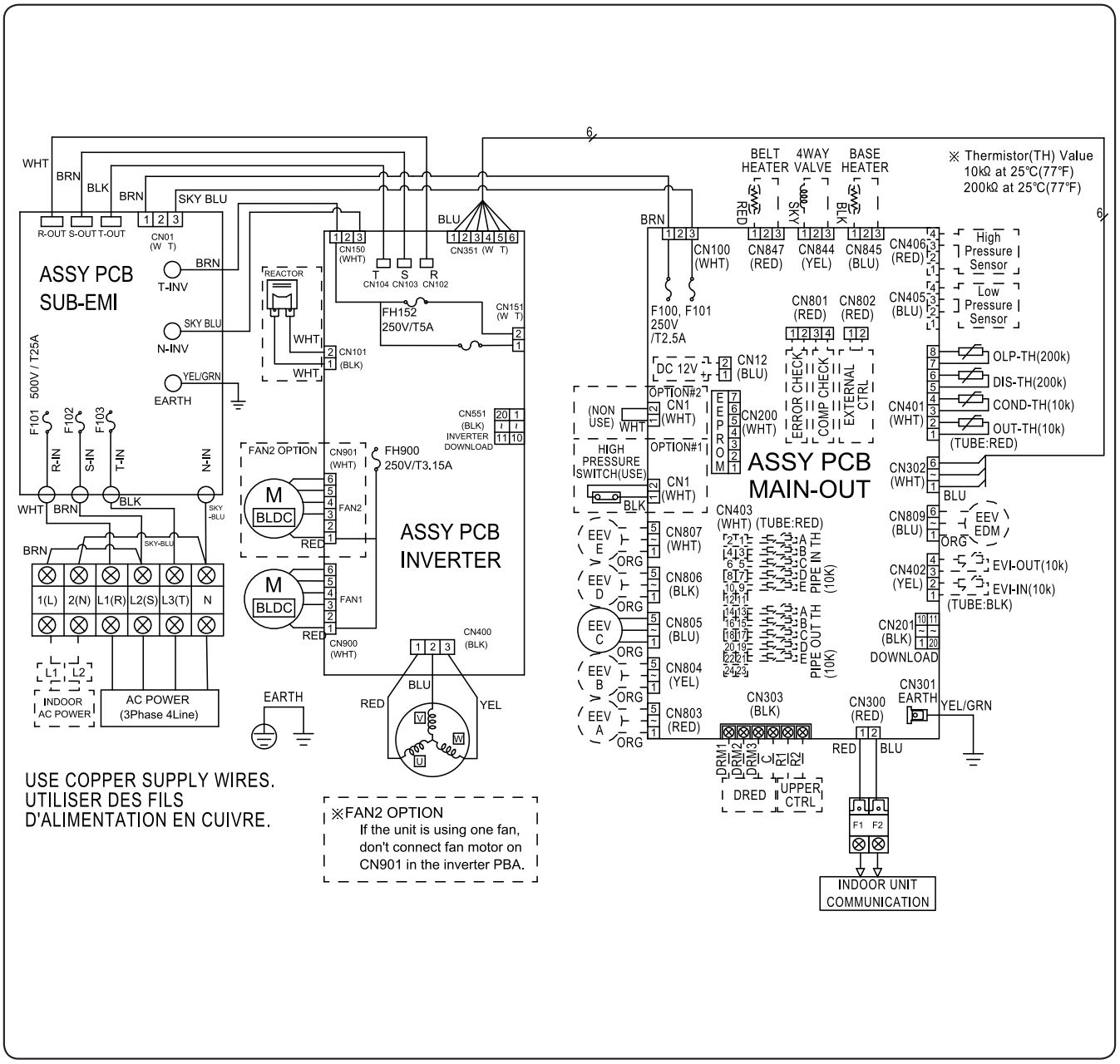
NOTE

- 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

4. Electrical Wiring Diagram

Outdoor Units

AC071BXAPNG/EU



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

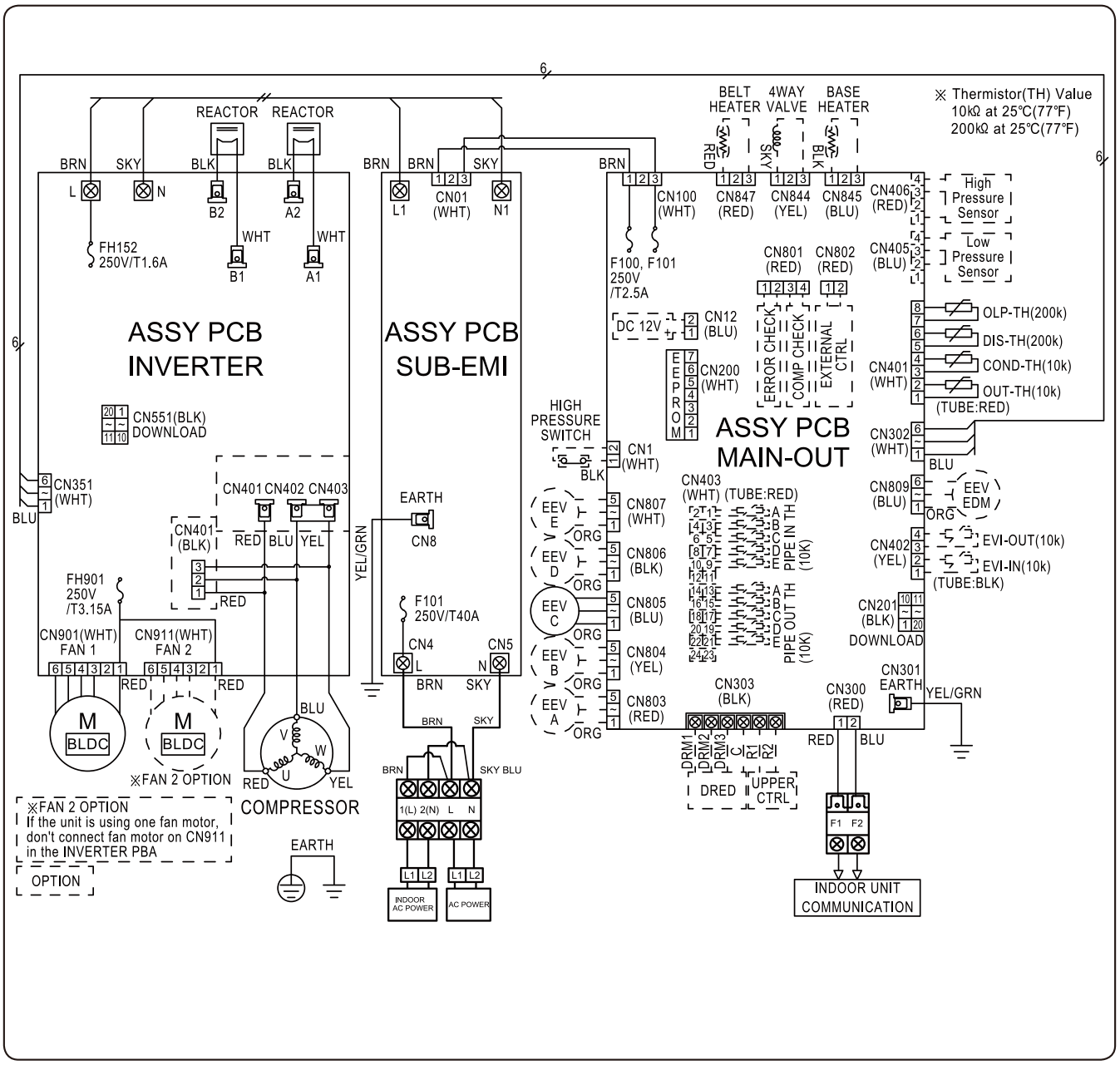
NOTE

- 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

4. Electrical Wiring Diagram

Outdoor Units

AC100BXAPKG/EU



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

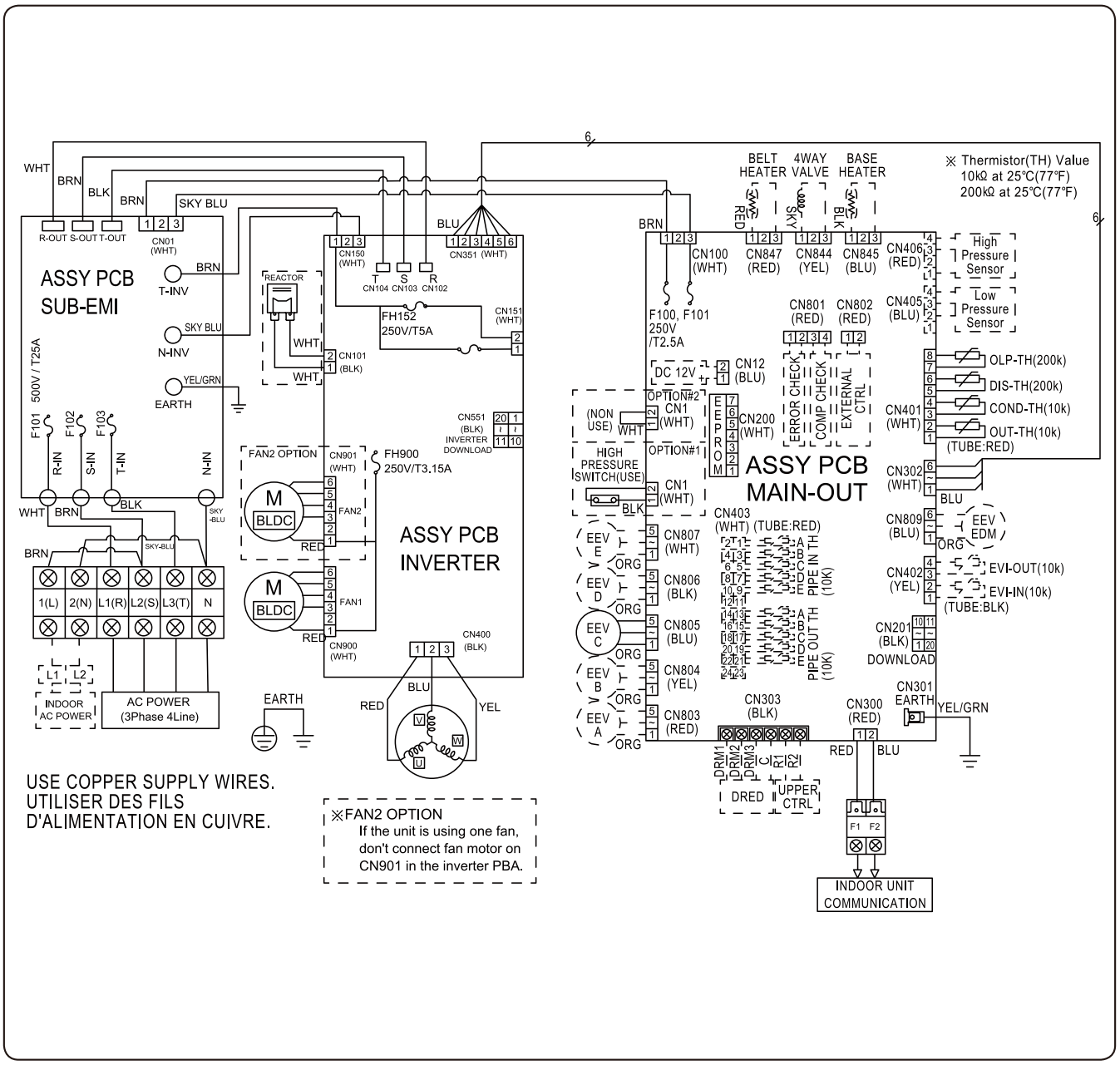
NOTE

- 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

4. Electrical Wiring Diagram

Outdoor Units

AC100/120/140BXAPNG/EU



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

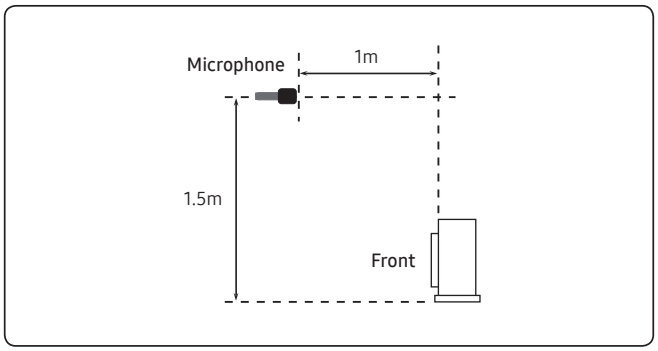
NOTE

- 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

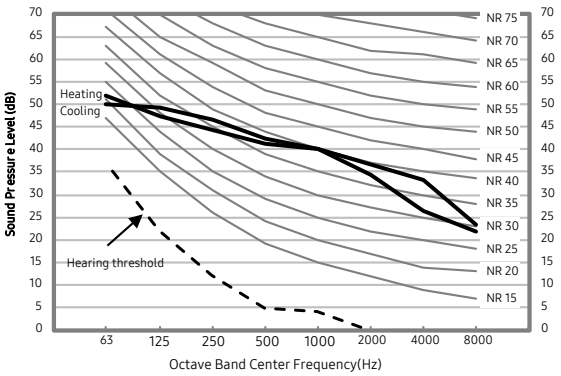


Unit: dB(A)

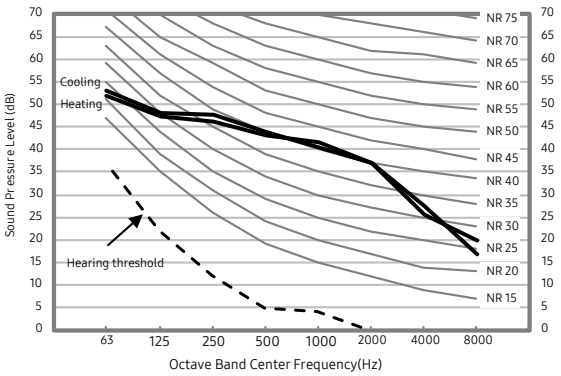
Model	Cooling	Heating
AC026BXAPKG/EU	45	45
AC035BNJPKG/EU	46	46
AC052BXAPKG/EU	47	48
AC071BXAPKG/EU	47	49

- NR Curve

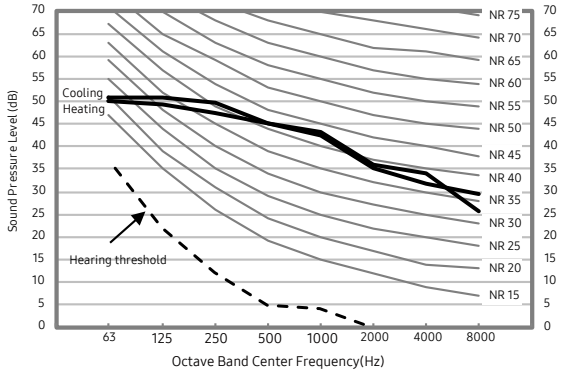
1) AC026BXAPKG/EU



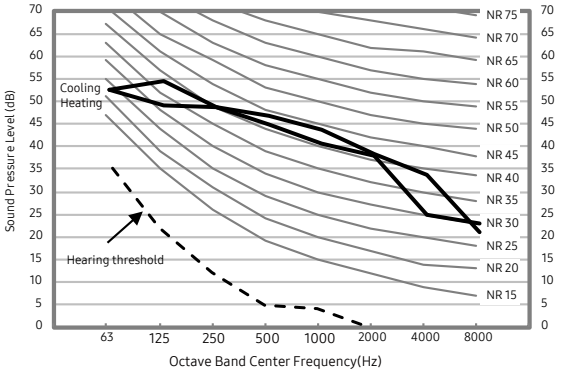
2) AC035BNJPKG/EU



3) AC052BXAPKG/EU



4) AC071BXAPKG/EU



NOTE

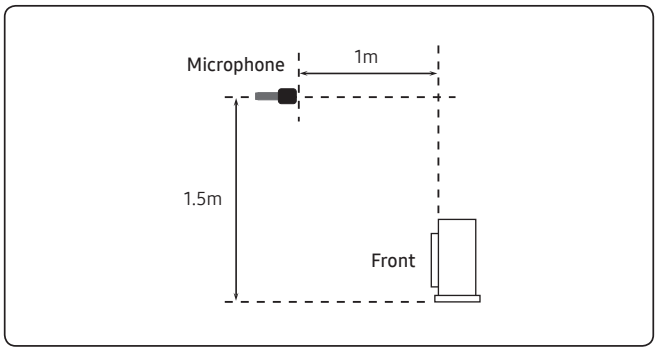
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

5. Sound Data

Outdoor Units

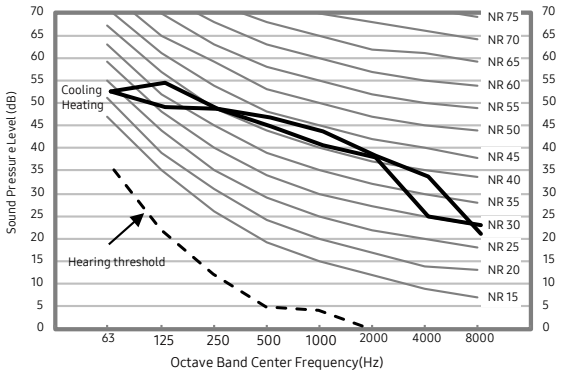
Sound Pressure level

Unit: dB(A)



Model	Cooling	Heating
AC071BXAPNG/EU	47	49

- NR Curve
  5) AC071BXAPNG/EU



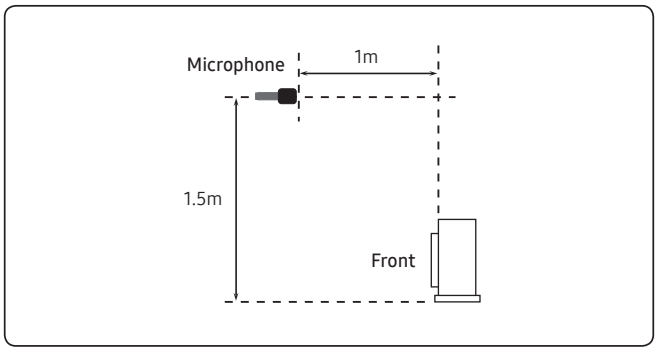
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

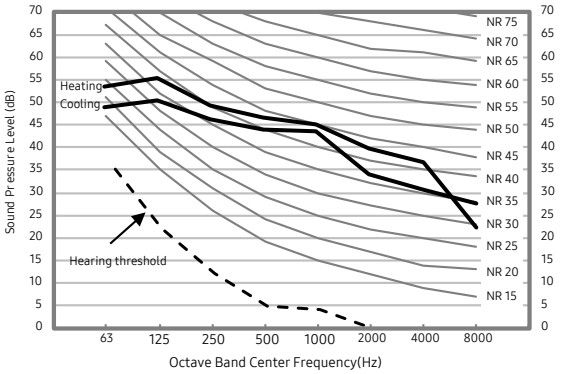


Unit: dB(A)

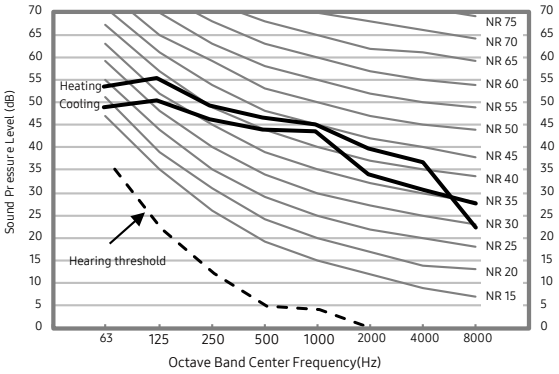
Model	Cooling	Heating
AC100BXAPKG/EU	47	50
AC100BXAPNG/EU	47	50
AC120BXAPNG/EU	49	52
AC140BXAPNG/EU	50	52

- NR Curve

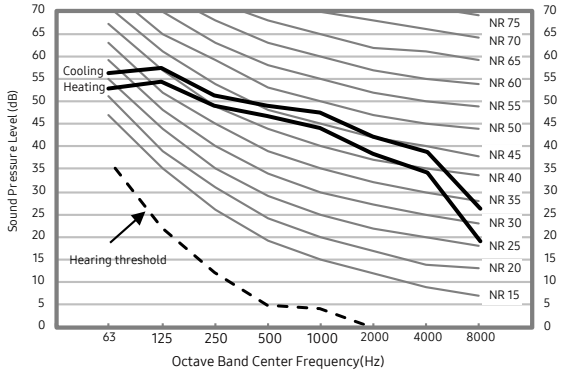
1) AC100BXAPKG/EU



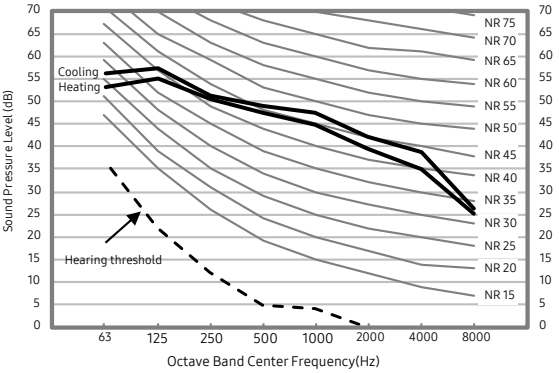
2) AC100BXAPNG/EU



3) AC120BXAPNG/EU



4) AC140BXAPNG/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

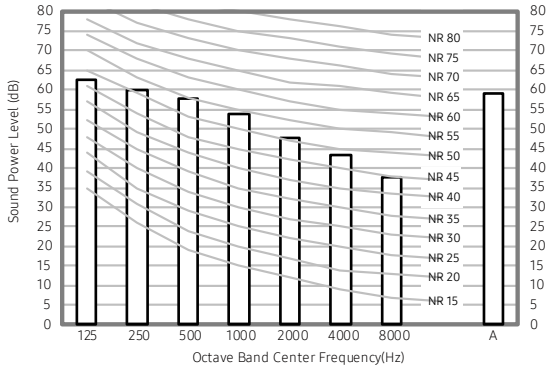
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

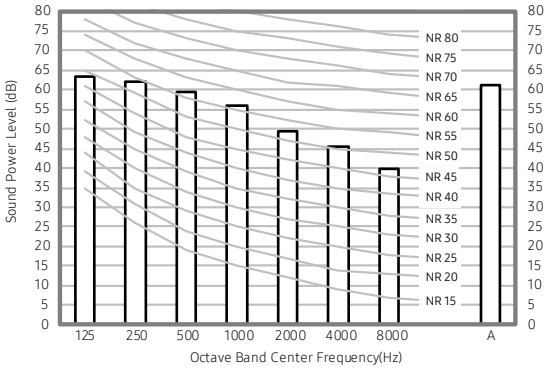
Model	Power
AC026BXAPKG/EU	59
AC035BNJPKG/EU	61
AC052BXAPKG/EU	63
AC071BXAPKG/EU	64

- NR Curve

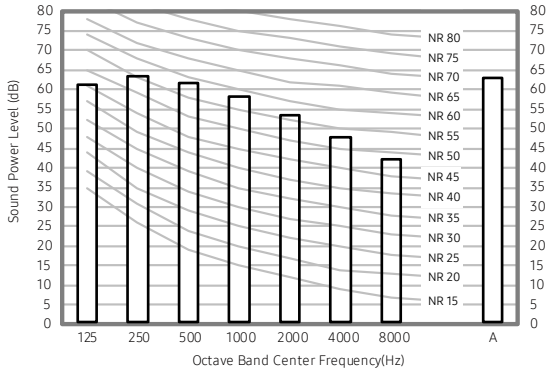
1) AC026BXAPKG/EU



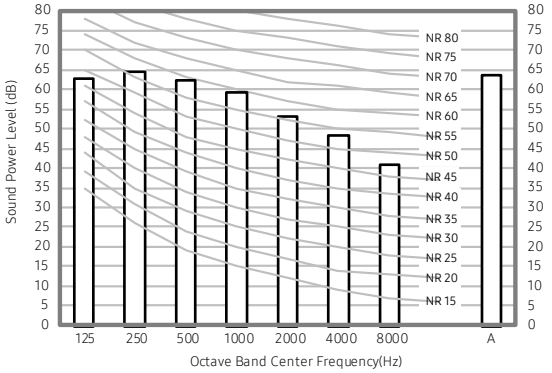
2) AC035BNJPKG/EU



3) AC052BXAPKG/EU



4) AC071BXAPKG/EU



5. Sound Data

Outdoor Units

Sound Power level

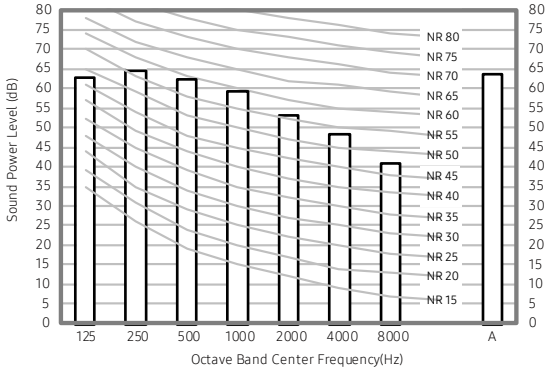
NOTE

- 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
AC071BXAPNG/EU	64

- NR Curve
  1) AC071BXAPNG/EU



5. Sound Data

Outdoor Units

Sound Power level

NOTE

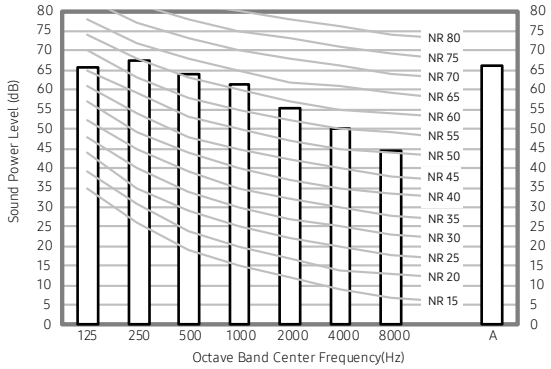
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

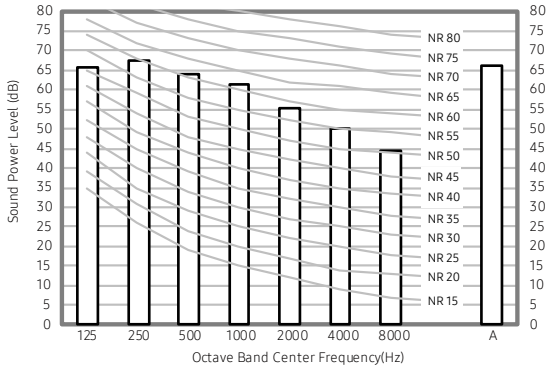
Model	Power
AC100BXAPKG/EU	66
AC100BXAPNG/EU	66
AC120BXAPNG/EU	69
AC140BXAPNG/EU	70

- NR Curve

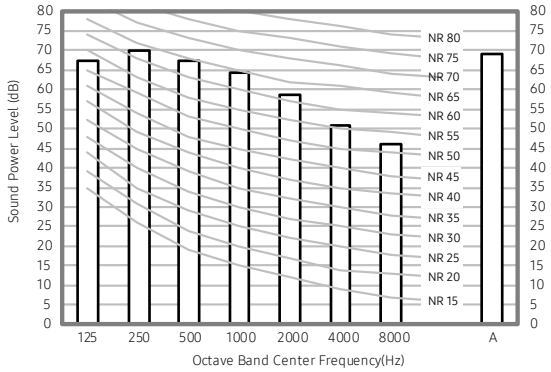
1) AC100BXAPKG/EU



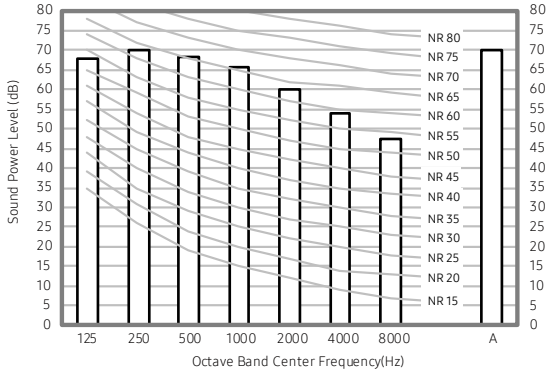
2) AC100BXAPNG/EU



3) AC120BXAPNG/EU



4) AC140BXAPNG/EU

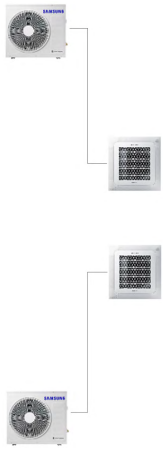


6. Capacity Correction

WindFree 4Way Cassette (600x600)

AC026BNNPKG/EU + AC026BXAPKG/EU
AC035BNNPKG/EU + AC035BXAPKG/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



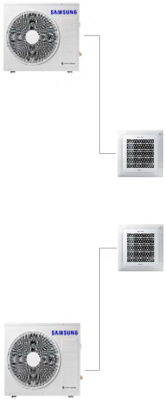
		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-	-	92	90
	15	-	-	-	94	92	90
	10	-	-	96	94	92	90
	5	-	98	96	94	92	90
	0	100	98	96	94	92	90
	-5	-	98	96	94	92	90
	-10	-	-	96	94	92	90
	-15	-	-	-	94	92	90
	-20	-	-	-	-	92	90
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

6. Capacity Correction

WindFree 4Way Cassette (600x600)

AC052BNNPKG/EU + AC052BXAPKG/EU

Cooling



		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	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



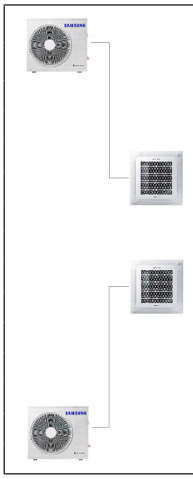
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

WindFree 4Way Cassette

AC052BN4PKG/EU + AC052BXAPKG/EU

Cooling



		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
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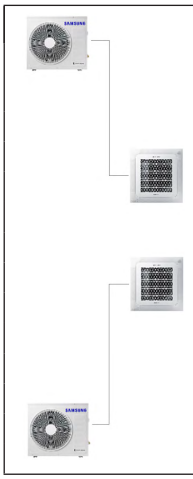
	-5	-	99	98	97	96	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



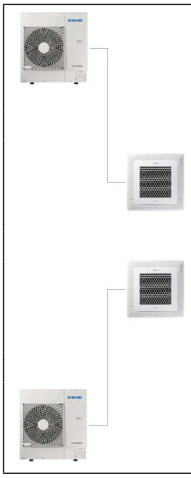
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

WindFree 4Way Cassette

AC071BN4PKG/EU + AC071BXAPKG/EU
AC071BN4PKG/EU + AC071BXAPNG/EU

Cooling



		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	95	94	94	93
	25	-	-	-	-	-	97	96	95	94	94	93
	20	-	-	-	-	97	97	96	95	94	94	93
	15	-	-	-	98	97	97	96	95	94	94	93
	10	-	-	99	98	97	97	96	95	94	94	93
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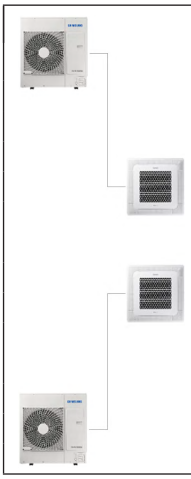
	-5	-	99	98	97	97	96	95	95	94	92	92
	-10	-	-	97	97	96	96	95	94	93	91	90
	-15	-	-	-	96	96	95	95	93	92	89	89
	-20	-	-	-	-	95	95	94	93	91	88	88
	-25	-	-	-	-	-	94	94	92	90	86	86
	-30	-	-	-	-	-	-	93	92	89	85	85

Heating



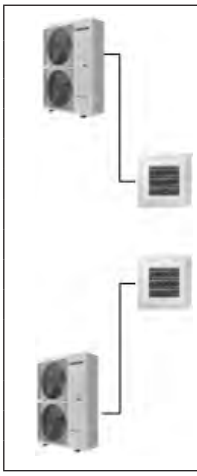
		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	95	94
	25	-	-	-	-	-	97	96	96	95	95	94
	20	-	-	-	-	98	97	96	96	95	95	94
	15	-	-	-	98	98	97	96	96	95	95	94
	10	-	-	99	98	98	97	96	96	95	95	94
	5	-	99	99	98	98	97	96	96	95	95	94
	0	100	99	99	98	98	97	96	96	95	95	94
	-5	-	99	99	98	98	97	96	96	95	95	94
	-10	-	-	99	98	98	97	96	96	95	95	94
	-15	-	-	-	98	98	97	96	96	95	95	94
	-20	-	-	-	-	98	97	96	96	95	95	94
	-25	-	-	-	-	-	97	96	96	95	95	94
	-30	-	-	-	-	-	-	96	96	95	95	94

6. Capacity Correction

WindFree 4Way Cassette

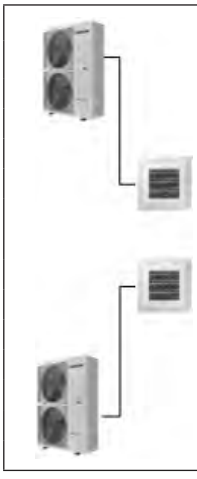
AC100BN4PKG/EU + AC100BXAPKG/EU
AC100BN4PKG/EU + AC100BXAPNG/EU
AC120BN4PKG/EU + AC120BXAPNG/EU
AC140BN4PKG/EU + AC140BXAPNG/EU

Cooling



		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	95	94	93	93	92	91	90	90	89	88
	25	-	-	-	-	-	96	96	95	94	93	93	92	91	90	90	89	88
	20	-	-	-	-	97	96	96	95	94	93	93	92	91	90	90	89	88
	15	-	-	-	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	10	-	-	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	5	-	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	0	100	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	-5	-	99	98	97	97	96	95	94	93	92	91	91	90	89	89	88	88
	-10	-	-	98	97	96	96	95	94	92	91	90	90	89	89	88	88	87
	-15	-	-	-	97	96	95	94	93	92	89	89	88	88	88	87	87	87
	-20	-	-	-	-	95	95	94	93	91	88	88	87	87	87	87	86	86
	-25	-	-	-	-	-	94	94	92	90	86	86	86	86	86	86	86	86
	-30	-	-	-	-	-	-	93	92	89	85	85	85	85	85	85	85	85

Heating



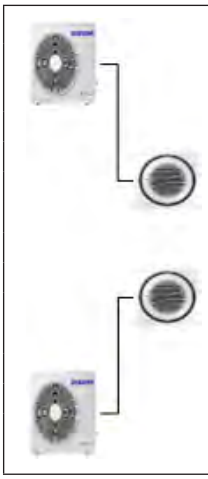
		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90
	25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	0	100	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	-25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	-30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90

6. Capacity Correction

360 Cassette

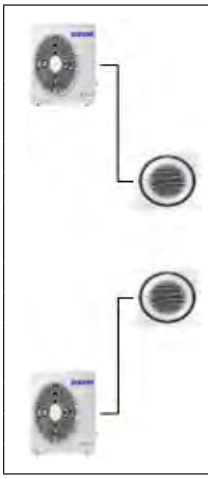
AC052BN6PKG/EU + AC052BXAPKG/EU

Cooling



		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	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



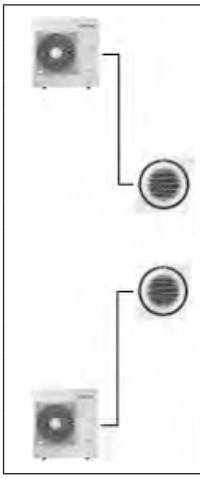
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

360 Cassette

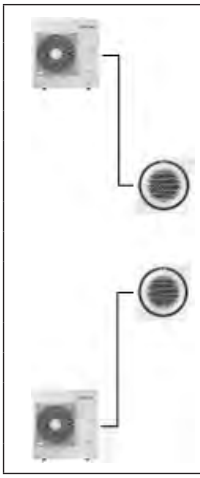
AC071BN6PKG/EU + AC071BXAPKG/EU
AC071BN6PKG/EU + AC071BXAPNG/EU

Cooling



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

Heating



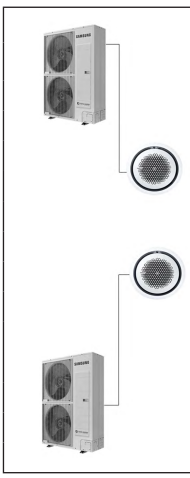
		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	95	94	94	93
	25	-	-	-	-	-	97	96	95	94	94	93
	20	-	-	-	-	97	97	96	95	94	94	93
	15	-	-	-	98	97	97	96	95	94	94	93
	10	-	-	99	98	97	97	96	95	94	94	93
	5	-	99	99	98	97	97	96	95	94	94	93
	0	100	99	99	98	97	97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

6. Capacity Correction

360 Cassette

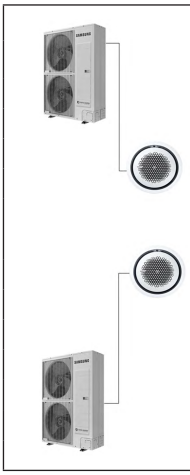
AC100BN6PKG/EU + AC100BXAPKG/EU
AC100BN6PKG/EU + AC100BXAPNG/EU
AC120BN6PKG/EU + AC120BXAPNG/EU
AC140BN6PKG/EU + AC140BXAPNG/EU

Cooling



		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	95	94	93	93	92	91	90	90	89	88
	25	-	-	-	-	-	96	96	95	94	93	93	92	91	90	90	89	88
	20	-	-	-	-	97	96	96	95	94	93	93	92	91	90	90	89	88
	15	-	-	-	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	10	-	-	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	5	-	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	0	100	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	-5	-	99	98	97	97	96	95	94	93	92	91	91	90	89	89	88	88
	-10	-	-	98	97	96	96	95	94	92	91	90	90	89	89	88	88	87
	-15	-	-	-	97	96	95	94	93	92	89	89	88	88	88	87	87	87
	-20	-	-	-	-	95	95	94	93	91	88	88	87	87	87	87	86	86
	-25	-	-	-	-	-	94	94	92	90	86	86	86	86	86	86	86	86
	-30	-	-	-	-	-	-	93	92	89	85	85	85	85	85	85	85	85

Heating



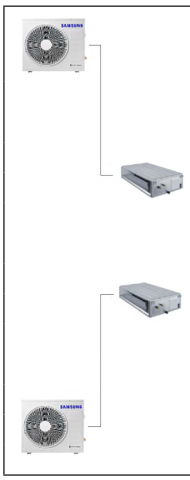
		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90
	25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	0	100	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	-25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	-30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90

6. Capacity Correction

MSP Duct

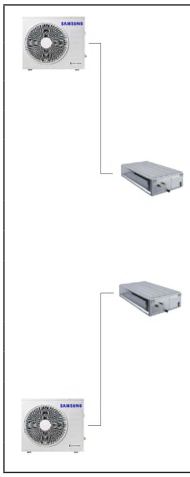
AC035BNMPKG/EU + AC035BXAPKG/EU

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	-	-	-	-	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	-	98	96	94	92	90
	-10	-	-	96	94	92	90
	-15	-	-	-	94	92	90
	-20	-	-	-	-	92	90
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

6. Capacity Correction

MSP Duct

AC052BNMPKG/EU + AC052BXAPKG/EU

Cooling



		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	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



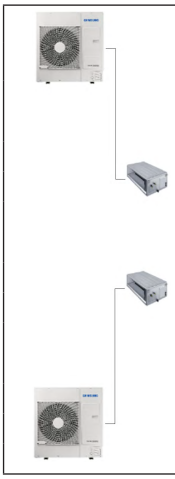
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

MSP Duct

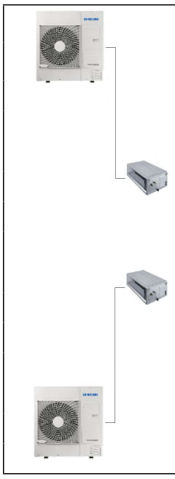
AC071BNMPKG/EU + AC071BXAPKG/EU
AC071BNMPKG/EU + AC071BXAPNG/EU

Cooling



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

Heating



		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	95	94
	25	-	-	-	-	-	97	96	96	95	95	94
	20	-	-	-	-	98	97	96	96	95	95	94
	15	-	-	-	98	98	97	96	96	95	95	94
	10	-	-	99	98	98	97	96	96	95	95	94
	5	-	99	99	98	98	97	96	96	95	95	94
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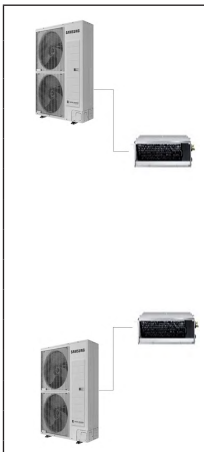
	-5	-	99	99	98	98	97	96	96	95	95	94
	-10	-	-	99	98	98	97	96	96	95	95	94
	-15	-	-	-	98	98	97	96	96	95	95	94
	-20	-	-	-	-	98	97	96	96	95	95	94
	-25	-	-	-	-	-	97	96	96	95	95	94
	-30	-	-	-	-	-	-	96	96	95	95	94

6. Capacity Correction

MSP Duct

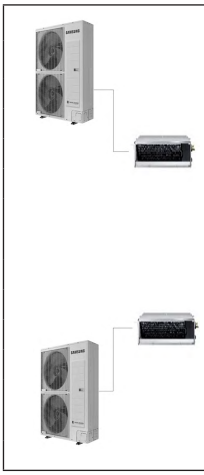
AC100BNMPKG/EU + AC100BXAPKG/EU
AC100BNMPKG/EU + AC100BXAPNG/EU
AC120BNMPKG/EU + AC120BXAPNG/EU
AC140BNMPKG/EU + AC140BXAPNG/EU

Cooling



		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	95	94	93	93	92	91	90	90	89	88
	25	-	-	-	-	-	96	96	95	94	93	93	92	91	90	90	89	88
	20	-	-	-	-	97	96	96	95	94	93	93	92	91	90	90	89	88
	15	-	-	-	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	10	-	-	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	5	-	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	0	100	99	99	98	97	96	96	95	94	93	93	92	91	90	90	89	88
	-5	-	99	98	97	97	96	95	94	93	92	91	91	90	89	89	88	88
	-10	-	-	98	97	96	96	95	94	92	91	90	90	89	89	88	88	87
	-15	-	-	-	97	96	95	94	93	92	89	89	88	88	88	87	87	87
	-20	-	-	-	-	95	95	94	93	91	88	88	87	87	87	87	86	86
	-25	-	-	-	-	-	94	94	92	90	86	86	86	86	86	86	86	86
	-30	-	-	-	-	-	-	93	92	89	85	85	85	85	85	85	85	85

Heating



		Pipe Length (m)																
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90
	25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	0	100	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-5	-	99	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-10	-	-	99	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-15	-	-	-	98	98	97	96	96	95	94	94	93	93	92	91	91	90
	-20	-	-	-	-	98	97	96	96	95	94	94	93	93	92	91	91	90
	-25	-	-	-	-	-	97	96	96	95	94	94	93	93	92	91	91	90
	-30	-	-	-	-	-	-	96	96	95	94	94	93	93	92	91	91	90

6. Capacity Correction

Wall Mounted Type

AC026BNAPKG/EU + AC026BXAPKG/EU
AC035BNAPKG/EU + AC035BXAPKG/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



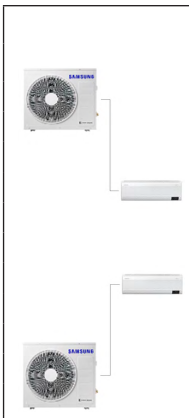
		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-	-	92	90
	15	-	-	-	94	92	90
	10	-	-	96	94	92	90
	5	-	98	96	94	92	90
	0	100	98	96	94	92	90
	-5	-	98	96	94	92	90
	-10	-	-	96	94	92	90
	-15	-	-	-	94	92	90
	-20	-	-	-	-	92	90
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

6. Capacity Correction

Wall Mounted Type

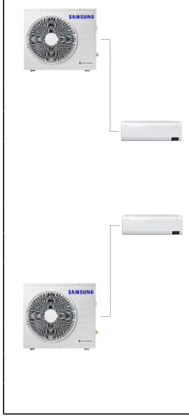
AC052BNAPKG/EU + AC052BXAPKG/EU

Cooling



		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	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



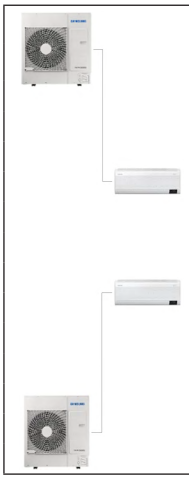
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

Wall Mounted Type

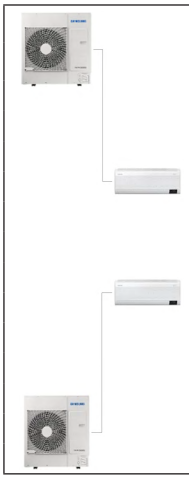
AC071BNAPKG/EU + AC071BXAPKG/EU
AC071BNAPKG/EU + AC071BXAPNG/EU

Cooling



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

Heating



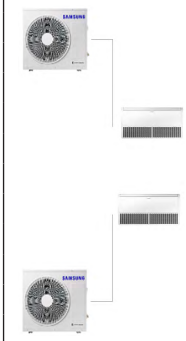
		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	95	94
	25	-	-	-	-	-	97	96	96	95	95	94
	20	-	-	-	-	98	97	96	96	95	95	94
	15	-	-	-	98	98	97	96	96	95	95	94
	10	-	-	99	98	98	97	96	96	95	95	94
	5	-	99	99	98	98	97	96	96	95	95	94
	0	100	99	99	98	98	97	96	96	95	95	94
	-5	-	99	99	98	98	97	96	96	95	95	94
	-10	-	-	99	98	98	97	96	96	95	95	94
	-15	-	-	-	98	98	97	96	96	95	95	94
	-20	-	-	-	-	98	97	96	96	95	95	94
	-25	-	-	-	-	-	97	96	96	95	95	94
	-30	-	-	-	-	-	-	96	96	95	95	94

6. Capacity Correction

Ceiling

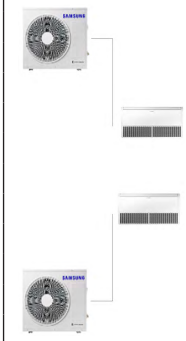
AC052BNCPKG/EU + AC052BXAPKG/EU

Cooling



		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	95	94	93	92	91
	-10	-	-	97	97	96	95	94	93	91	90
	-15	-	-	-	96	95	95	93	92	91	89
	-20	-	-	-	-	95	94	93	92	90	87
	-25	-	-	-	-	-	94	93	91	89	86
	-30	-	-	-	-	-	-	92	91	89	85

Heating



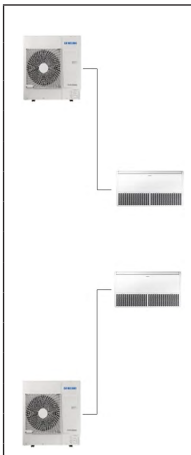
		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	95	95	94	93
	25	-	-	-	-	-	96	95	95	94	93
	20	-	-	-	-	97	96	95	95	94	93
	15	-	-	-	98	97	96	95	95	94	93
	10	-	-	98	98	97	96	95	95	94	93
	5	-	99	98	98	97	96	95	95	94	93
	0	100	99	98	98	97	96	95	95	94	93
	-5	-	99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

6. Capacity Correction

Ceiling

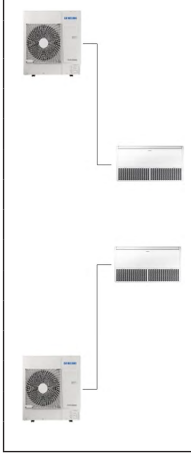
AC071BNCPKG/EU + AC071BXAPKG/EU
AC071BNCPKG/EU + AC071BXAPNG/EU

Cooling



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

Heating



		Pipe Length (m)										
		5	10	15	20	25	30	35	40	45	50	55
Level Difference (m)	30	-	-	-	-	-	-	96	96	95	95	94
	25	-	-	-	-	-	97	96	96	95	95	94
	20	-	-	-	-	98	97	96	96	95	95	94
	15	-	-	-	98	98	97	96	96	95	95	94
	10	-	-	99	98	98	97	96	96	95	95	94
	5	-	99	99	98	98	97	96	96	95	95	94
	0	100	99	99	98	98	97	96	96	95	95	94
	-5	-	99	99	98	98	97	96	96	95	95	94
	-10	-	-	99	98	98	97	96	96	95	95	94
	-15	-	-	-	98	98	97	96	96	95	95	94
	-20	-	-	-	-	98	97	96	96	95	95	94
	-25	-	-	-	-	-	97	96	96	95	95	94
	-30	-	-	-	-	-	-	96	96	95	95	94

6. Capacity Correction

Consol

AC026BNJPKG/EU + AC026BXAPKG/EU
AC035BNJPKG/EU + AC035BXAPKG/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	-	-	-	-	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	-	98	96	94	92	90
	-10	-	-	96	94	92	90
	-15	-	-	-	94	92	90
	-20	-	-	-	-	92	90
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

7. Operation Range

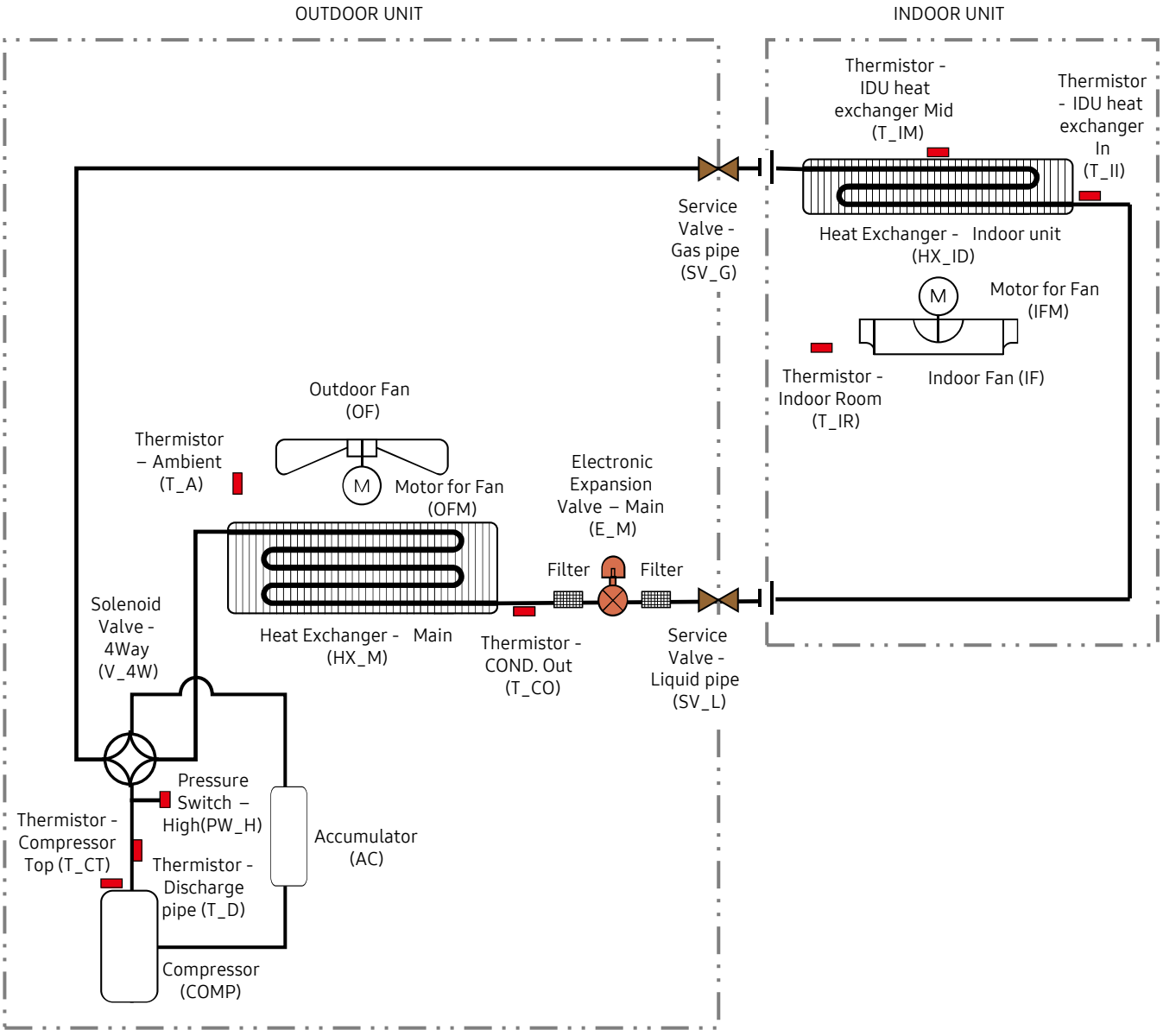
Mode	Outdoor Unit	Indoor Unit	Indoor Unit
	Temperature(DB)	Temperature(DB)	Humidity(RH)
Cooling	-20°C ~ 52°C	18°C ~ 32°C	80% or less
Heating	-25°C ~ 24°C	30°C or less	-
Drying	-20°C ~ 52°C	18°C ~ 32°C	80% or less

NOTE

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

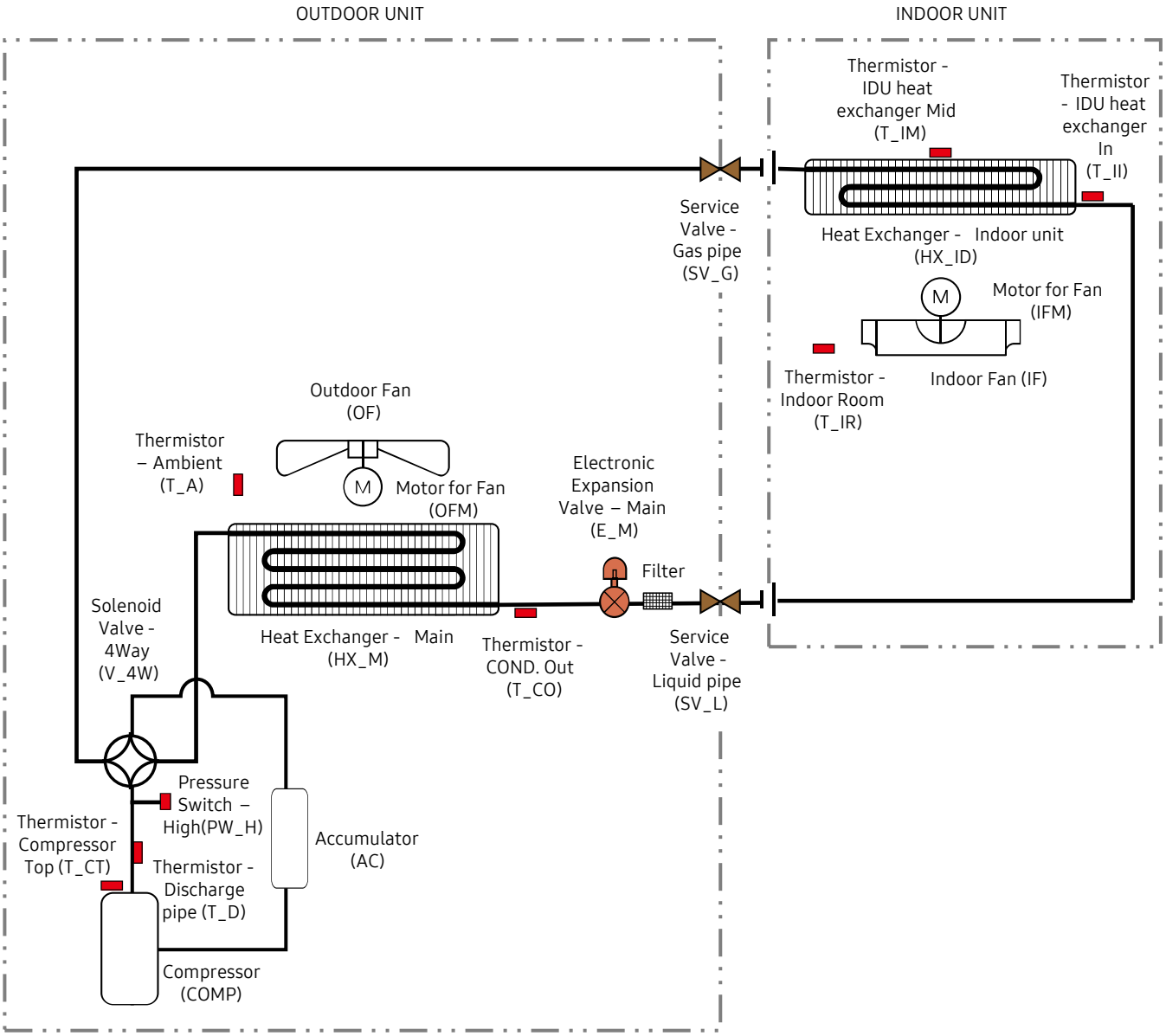
8. Piping Diagram

AC026BNNPKG/EU+AC026BXAPKG/EU,AC035BNNPKG/EU+AC035BXAPKG/EU
AC052BNNPKG/EU+AC052BXAPKG/EU,
AC052BN4PKG/EU+AC052BXAPKG/EU, AC052BN6PKG/EU+AC052BXAPKG/EU
AC026BNJPKG/EU+AC026BXAPKG/EU, AC035BNJPKG/EU+AC035BXAPKG/EU



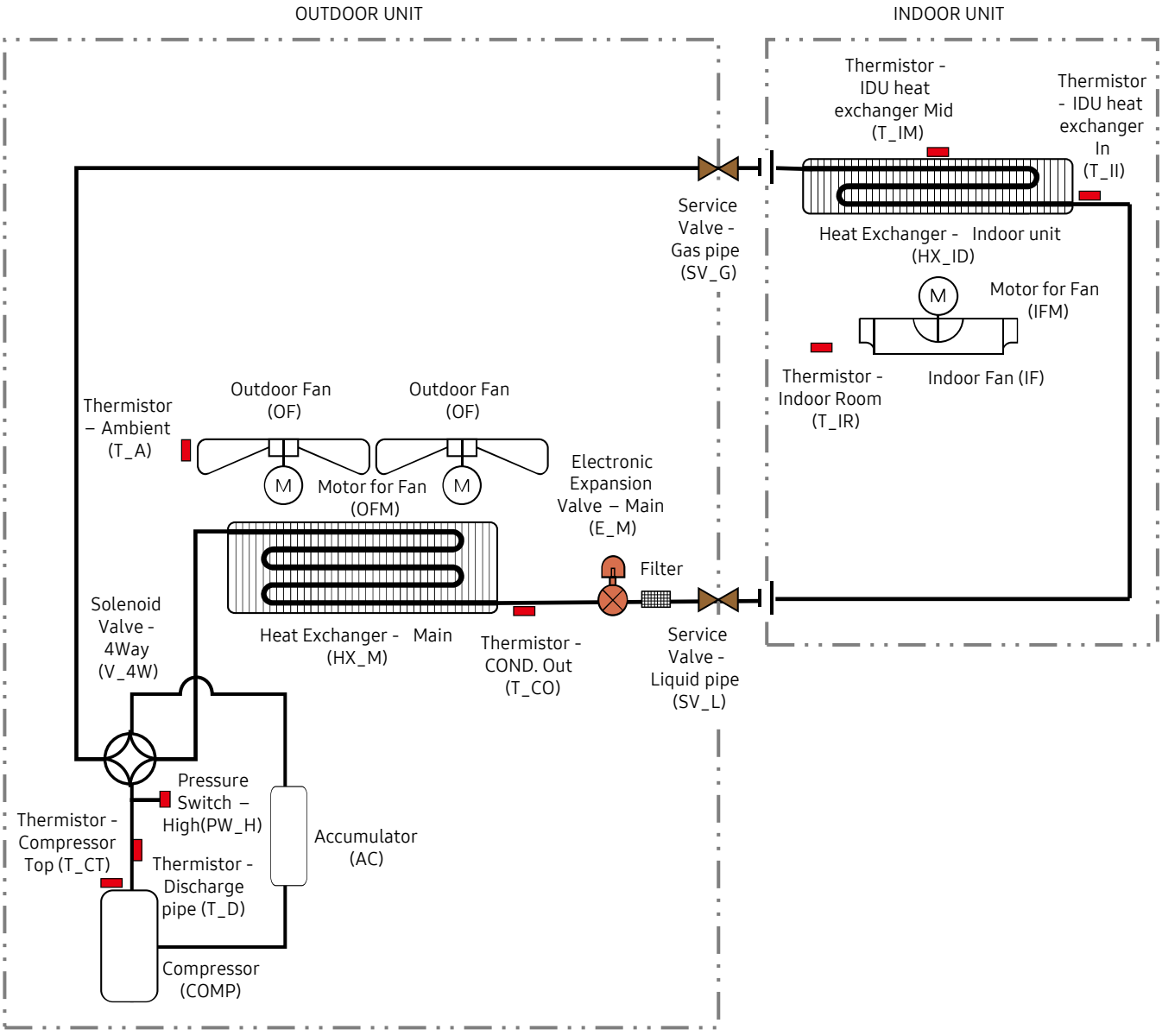
8. Piping Diagram

AC071BN4PKG/EU+AC071BXAPKG/EU, AC071BN4PKG/EU+AC071BXAPNG/EU
AC071BN6PKG/EU+AC071BXAPKG/EU, AC071BN6PKG/EU+AC071BXAPNG/EU



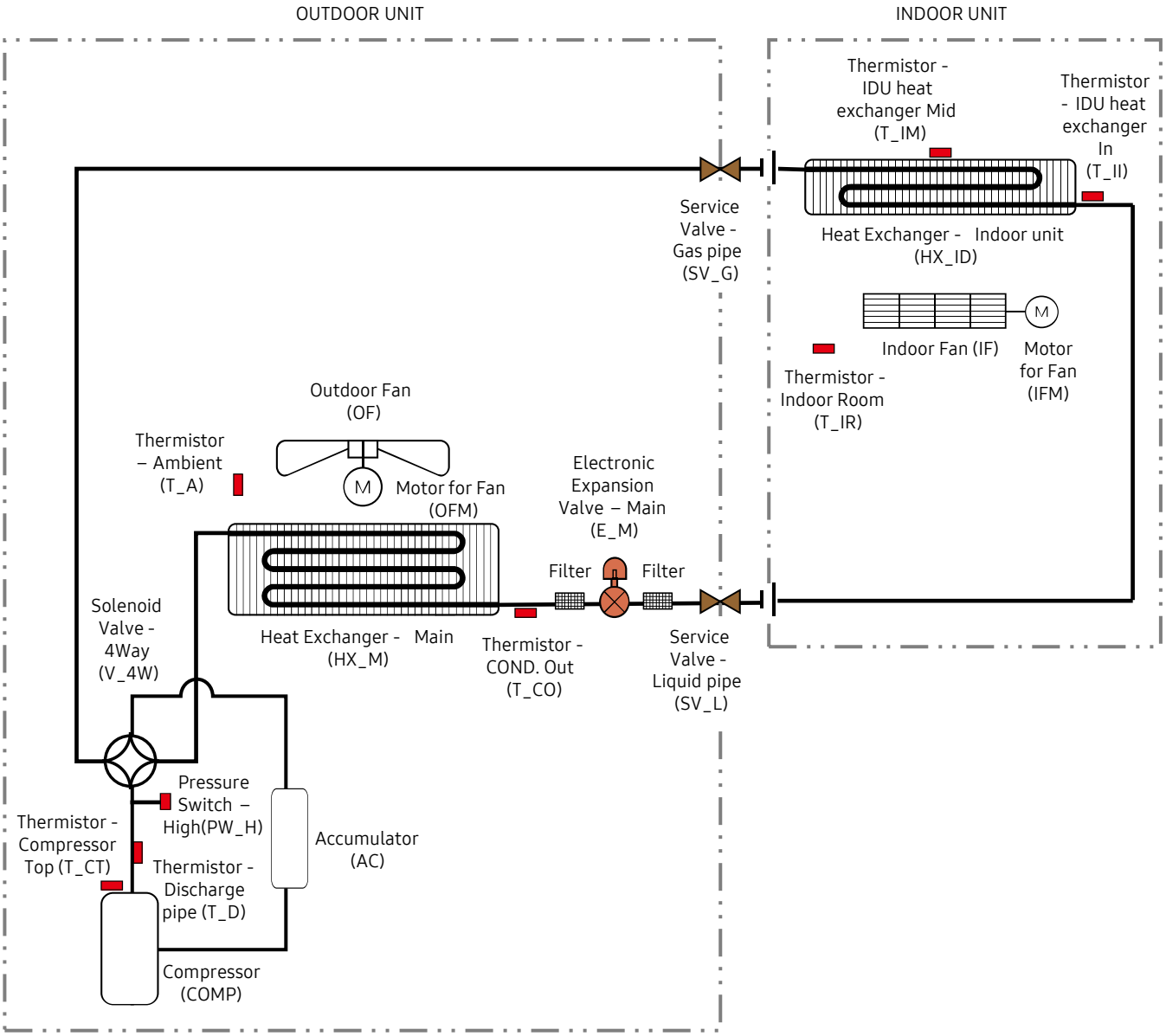
8. Piping Diagram

AC100BN4PKG/EU+AC100BXAPKG/EU, AC100BN4PKG/EU+AC100BXAPNG/EU, AC120BN4PKG/EU+AC120BXAPNG/EU, AC140BN4PKG/EU+AC140BXAPNG/EU, AC100BN6PKG/EU+AC100BXAPKG/EU, AC100BN6PKG/EU+AC100BXAPNG/EU, AC120BN6PKG/EU+AC120BXAPNG/EU, AC140BN6PKG/EU+AC140BXAPNG/EU



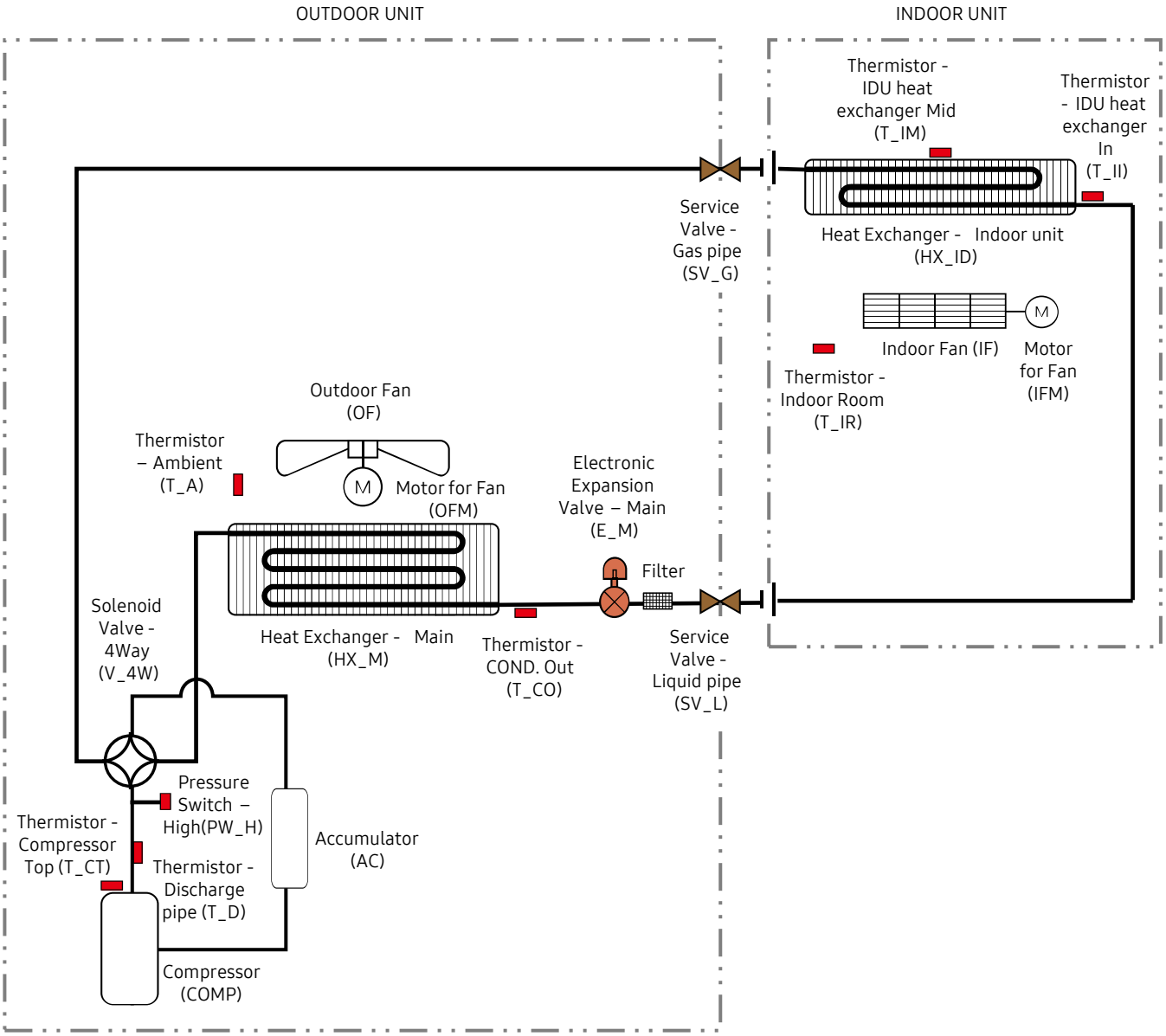
8. Piping Diagram

AC026BNAPKG/EU+AC026BXAPKG/EU, AC035BNAPKG/EU+AC035BXAPKG/EU AC052BNAPKG/EU+AC052BXAPKG/EU



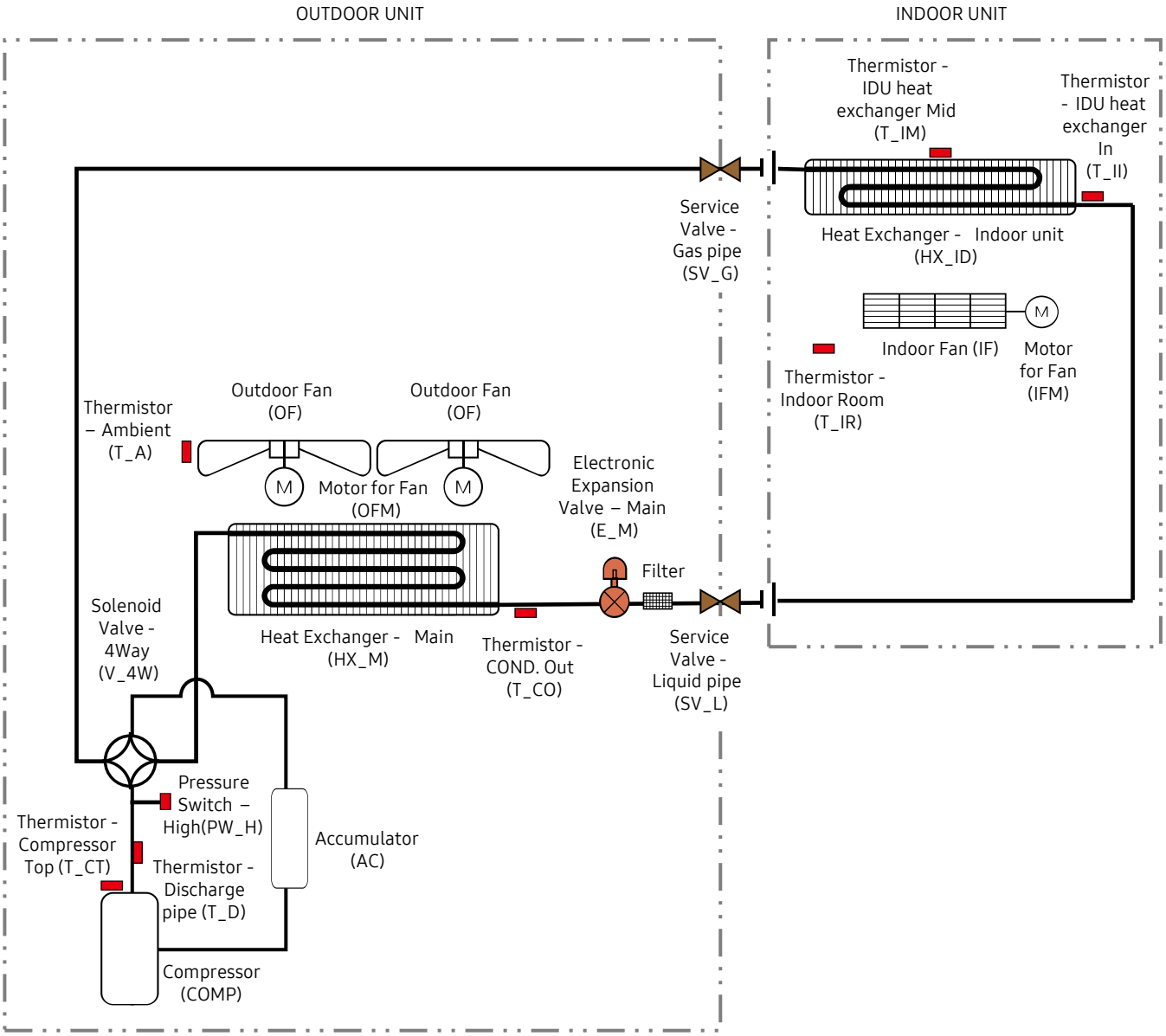
8. Piping Diagram

AC071BNAPKG/EU+AC071BXAPKG/EU, AC071BNAPKG/EU+AC071BXAPNG/EU



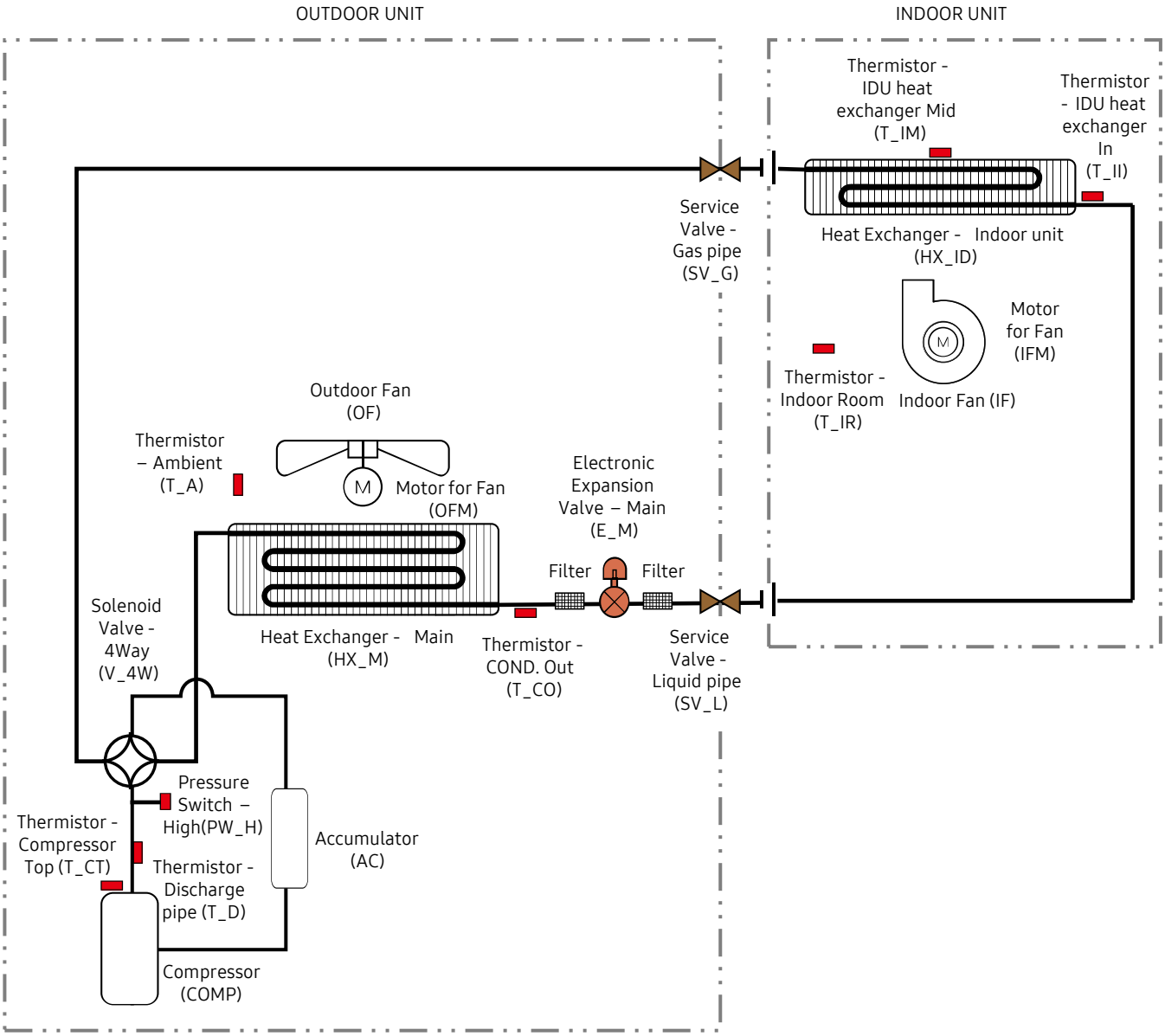
8. Piping Diagram

AC100BNTPKG/EU+AC100BXAPKG/EU, AC100BNTPKG/EU+AC100BXAPNG/EU



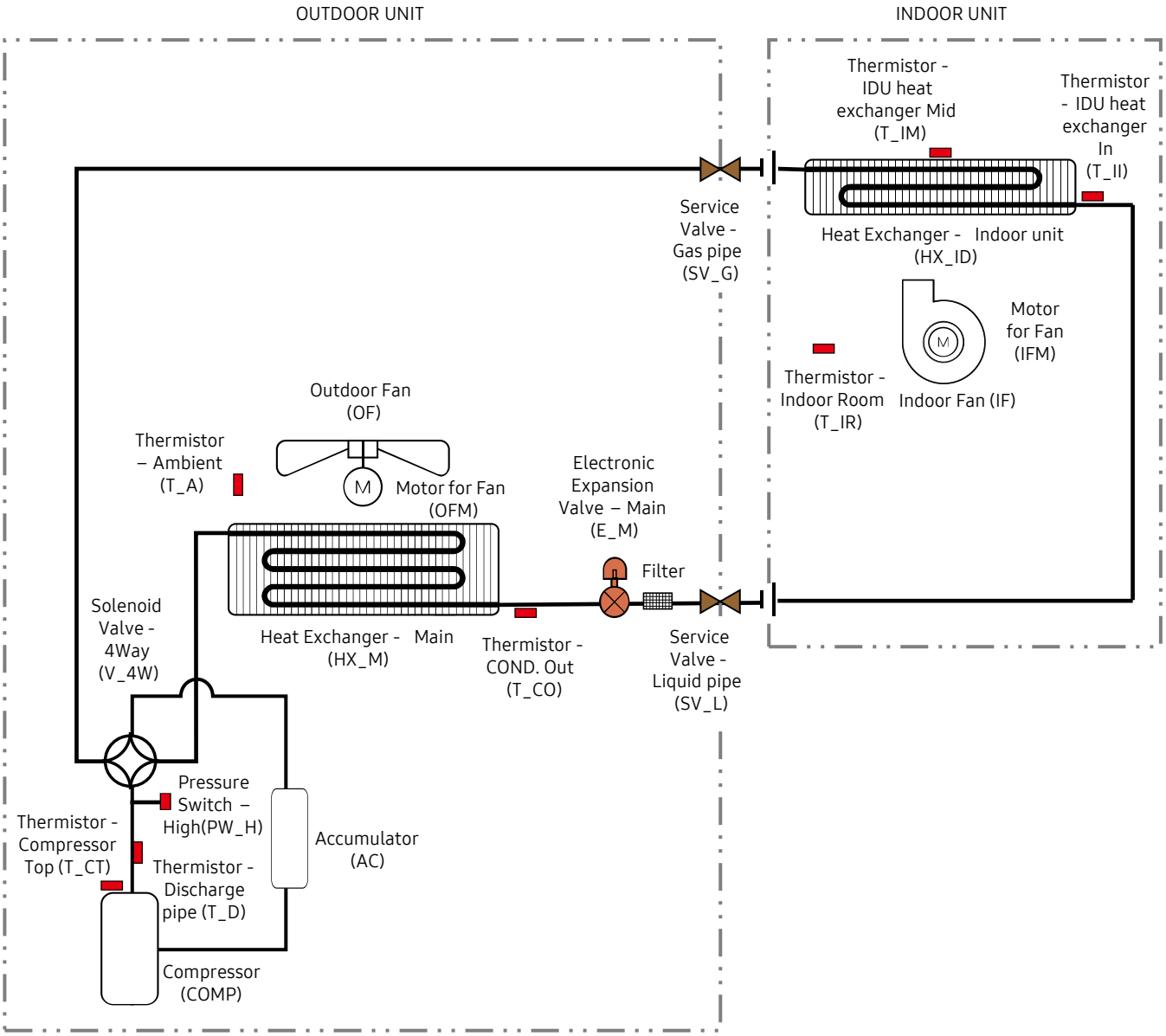
8. Piping Diagram

AC035BNMPKG/EU+AC035BXAPKG/EU, AC052BNMPKG/EU+AC052BXAPKG/EU
AC052BNCPKG/EU+AC052BXAPKG/EU



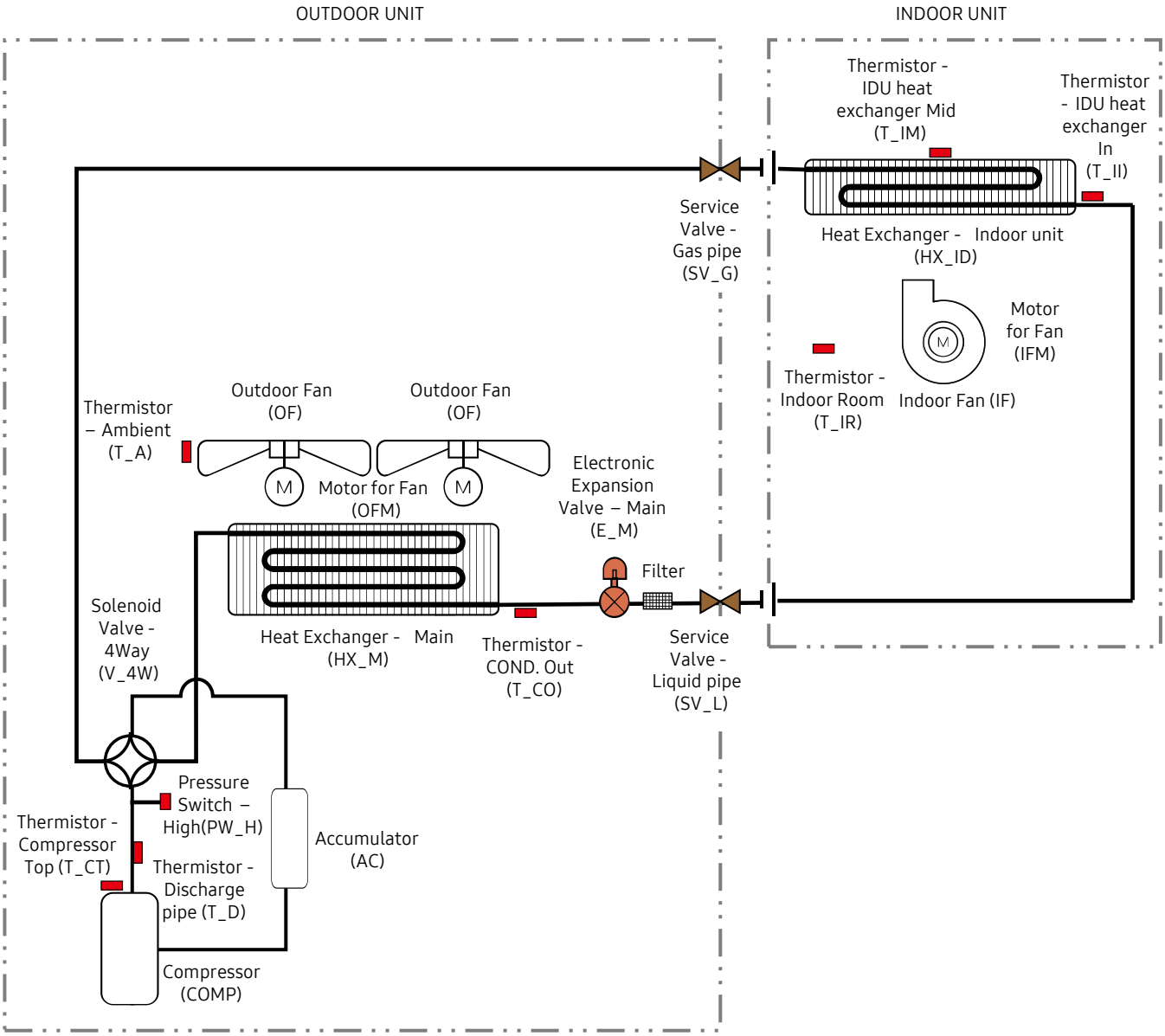
8. Piping Diagram

AC071BNMPKG/EU+AC071BXAPKG/EU, AC071BNMPKG/EU+AC071BXAPNG/EU
AC071BNCPKG/EU+AC071BXAPKG/EU, AC071BNCPKG/EU+AC071BXAPNG/EU



8. Piping Diagram

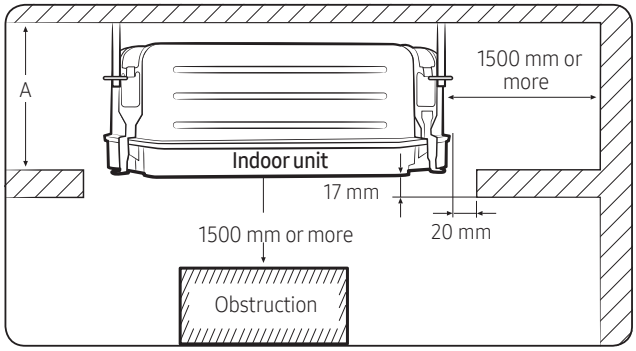
AC100BNMPKG/EU+AC100BXAPKG/EU, AC100BNMPKG/EU+AC100BXAPNG/EU, AC120BNMPKG/EU+AC120BXAPNG/EU, AC140BNMPKG/EU+AC140BXAPNG/EU



Installation

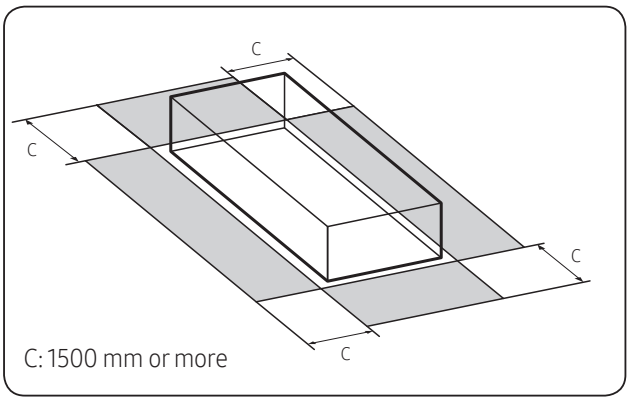
1. WindFree 4Way Cassette (600x600)

Spacing requirements



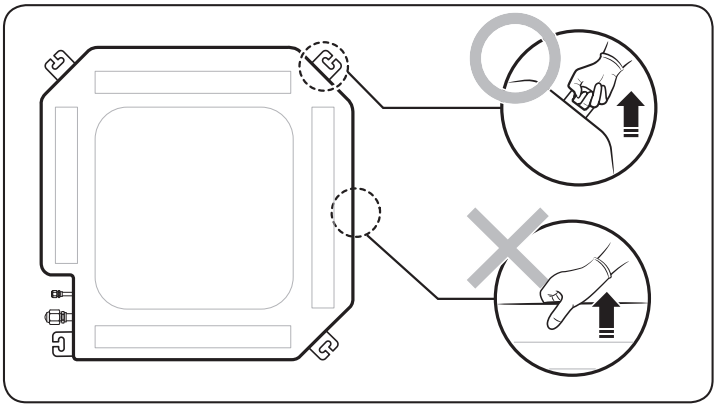
(Unit: mm)

Model	AC026BNNPKG AC035BNNPKG AC052BNNPKG
A	297



⚠ 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.

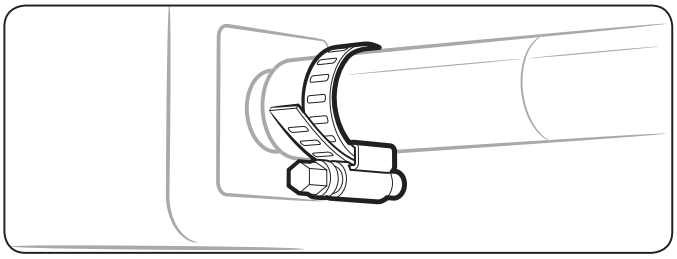


Installation

Installing the drain hose and drain pipe

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

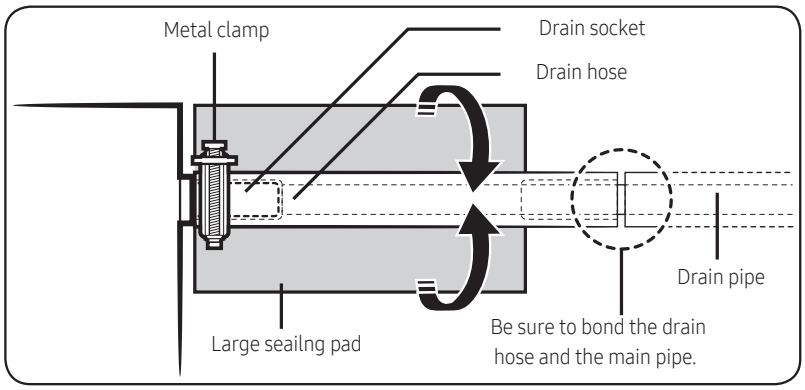
2 Tighten the metal clamp as shown in the picture.

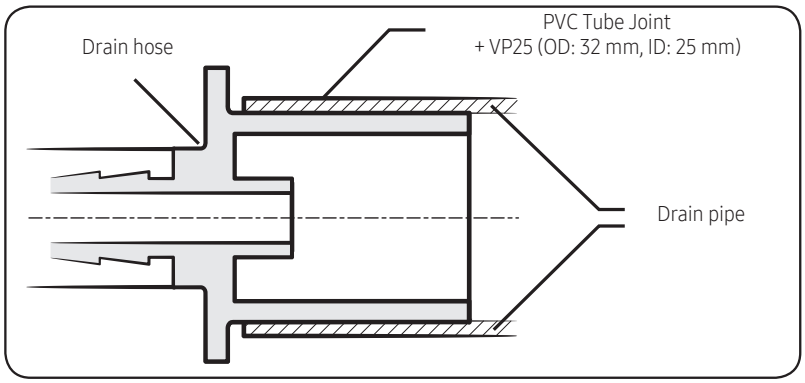


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

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.



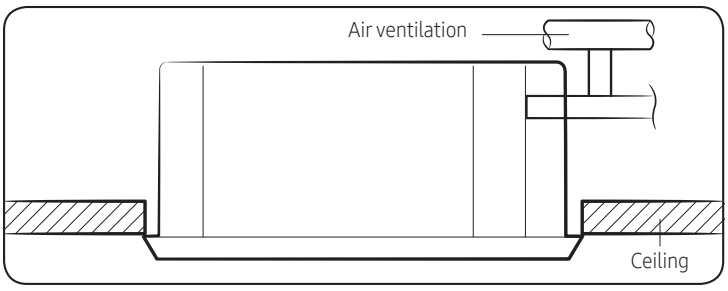


Installation

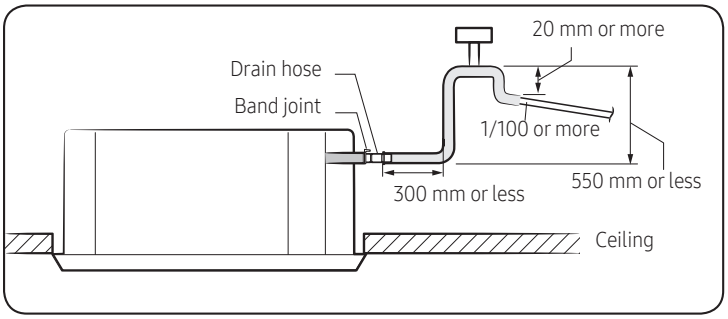
⚠ CAUTION

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

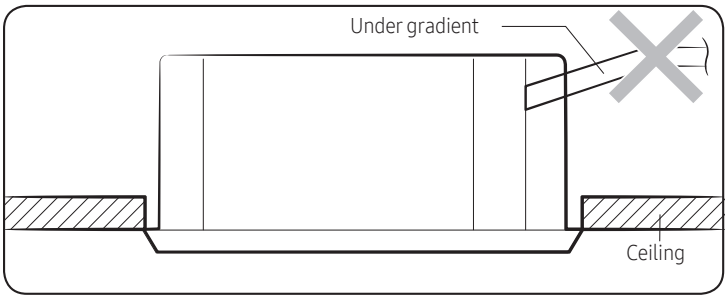
- Install air ventilation to drain condensation smoothly.



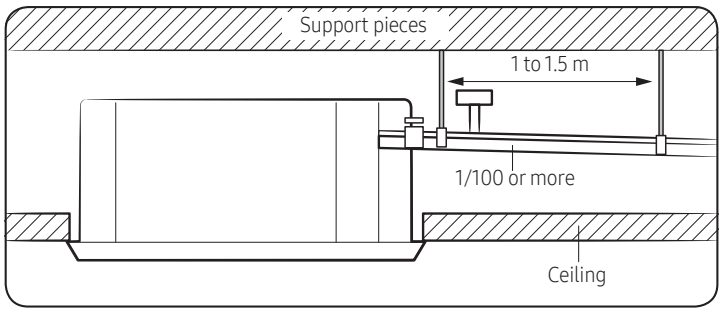
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



- 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.

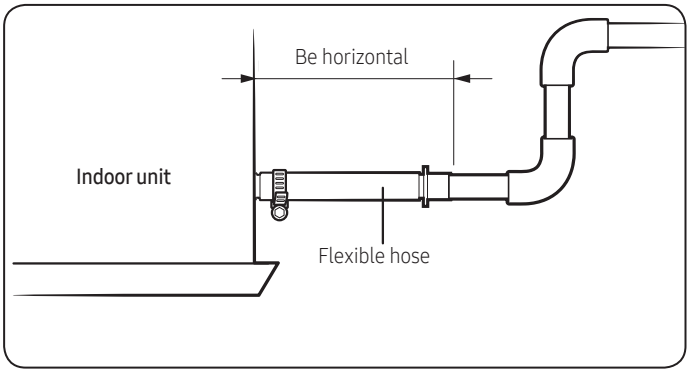


- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.

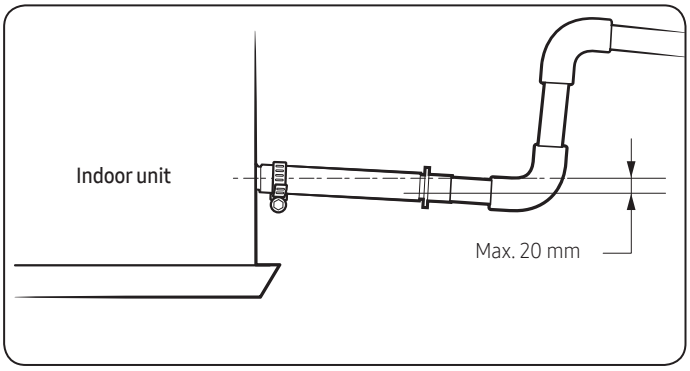


Installation

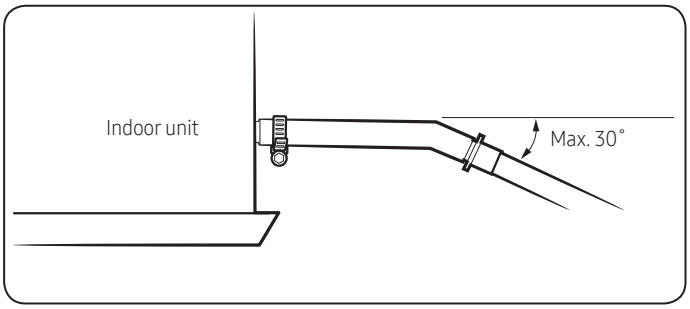
- Install horizontally.



- Max. allowable axis gap.

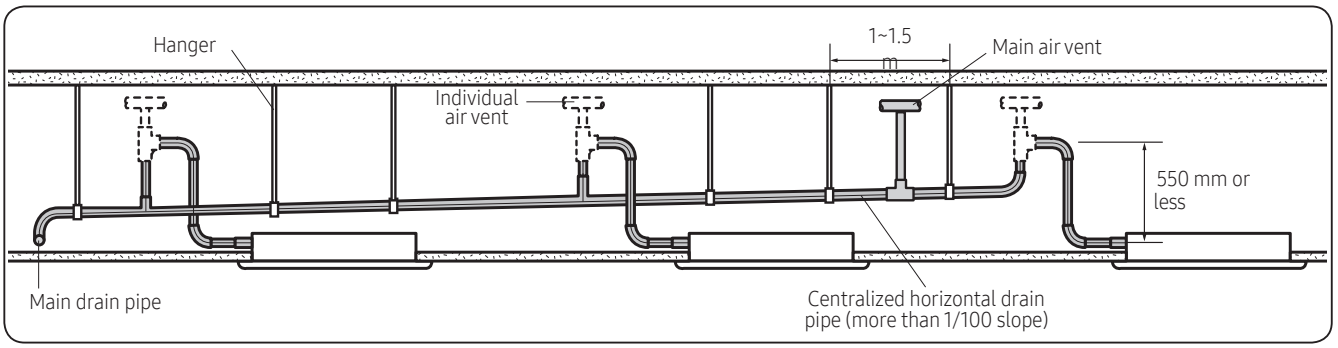


- Max. allowable bending angle.



NOTE

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



Installation

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.

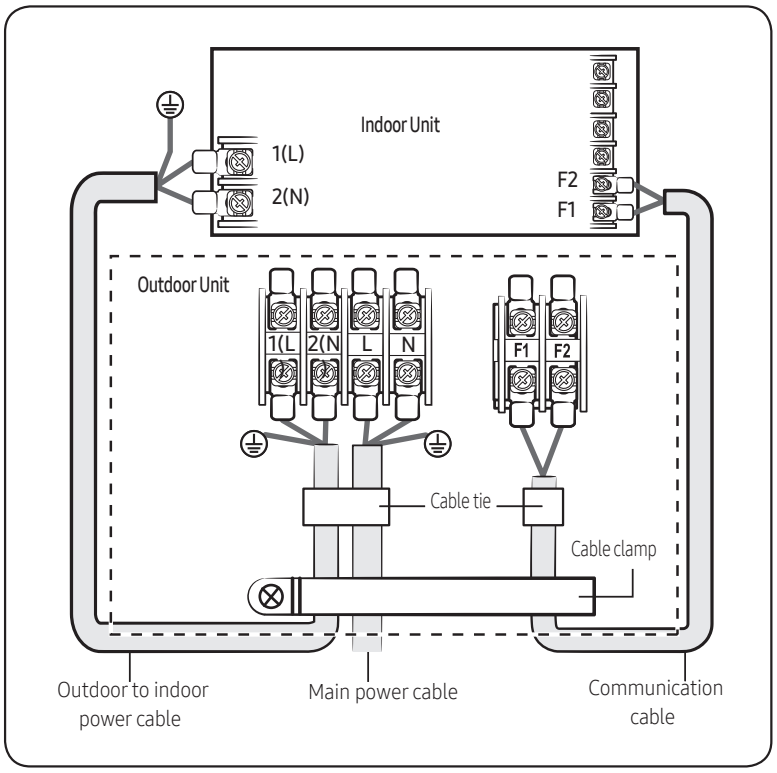
⚠ CAUTION

- 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.

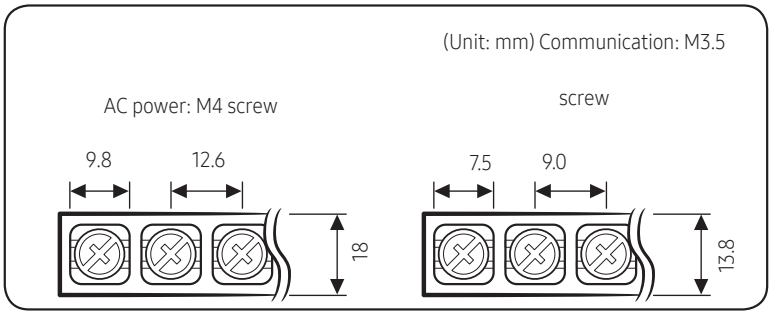
Wiring terminals) 1 phase



Installation

Wiring terminals) 3 phase

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

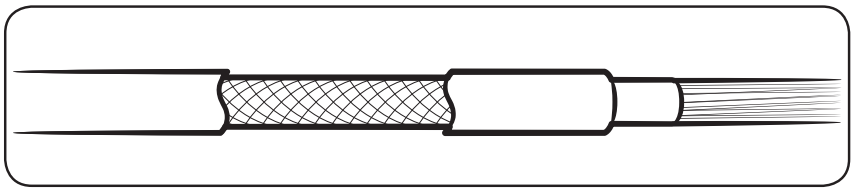


- 1 N·m = 10 kgf·cm

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

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



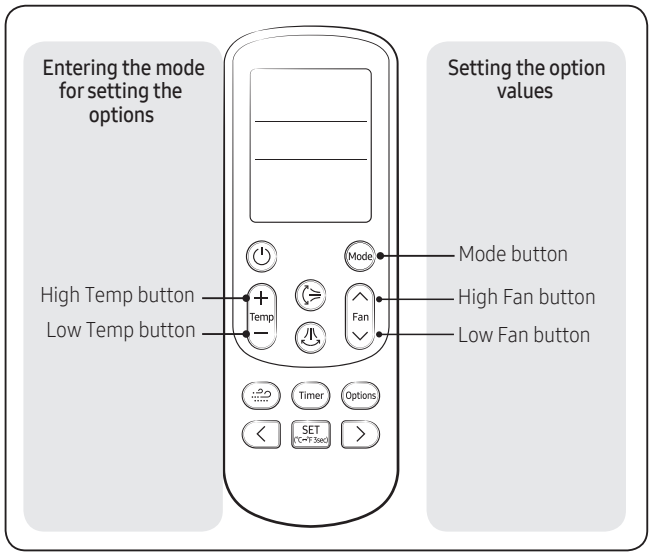
CAUTION

- 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 the indoor unit addresses and the 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



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, 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.

2 Set the option values.

⚠ CAUTION

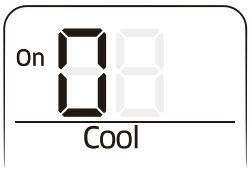
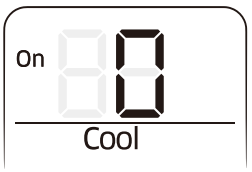
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

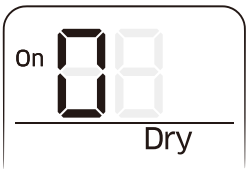
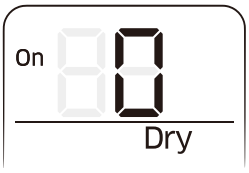
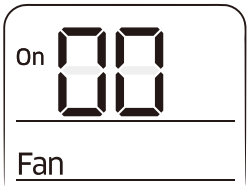
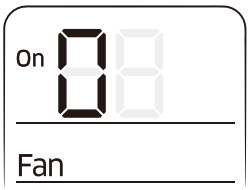
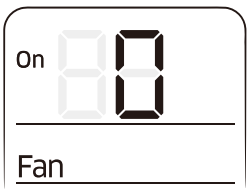
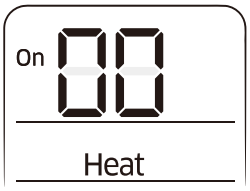
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

Installation

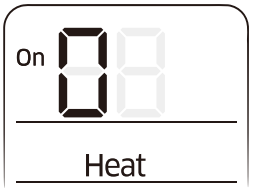
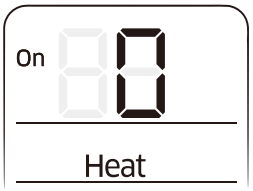
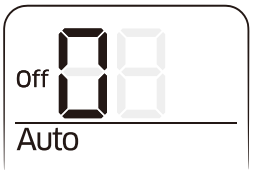
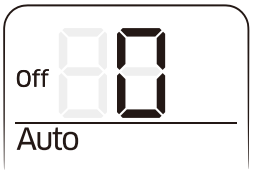
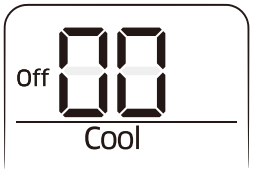
Take the steps presented in the following table:

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.	 SEG2
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	 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.	 SEG4
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	 SEG5
4 Press the Mode (Mode) button. Dry and On appear on the remote control display.	

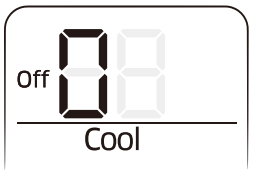
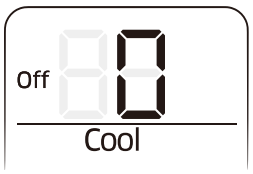
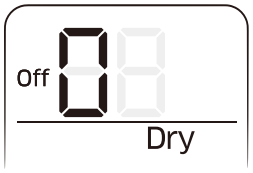
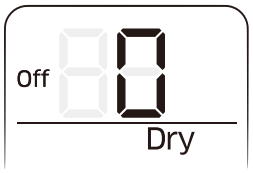
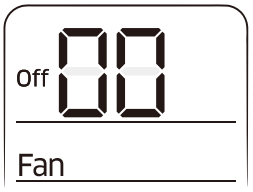
Installation

Steps	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.	 SEG 6
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	 SEG 8
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.	 SEG 9
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	 SEG 10
8 Press the Mode (Mode) button. Heat and On appear on the remote control display.	

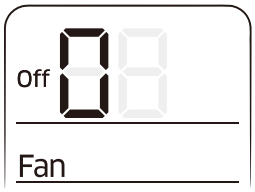
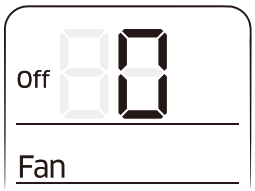
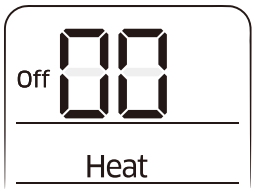
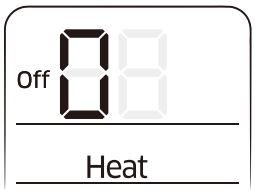
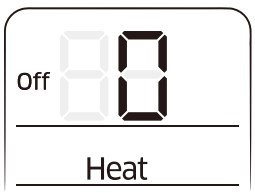
Installation

Steps	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. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 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
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.	

Installation

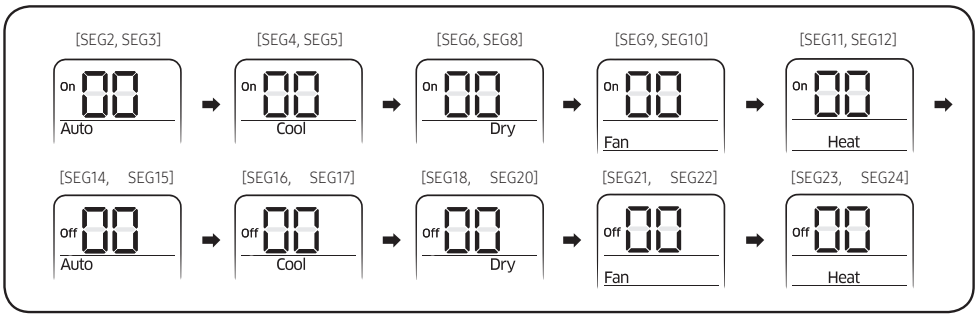
Steps	Remote control display
13 Set the SEG16 and SEG17 values: **a** Set the SEG16 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display. **b** Set the SEG17 value by pressing the Fan (High Fan) button repeatedly until the value you 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 **16** Press the Mode (Mode) button. Fan and Off appear on the remote control display.	 SEG18  SEG20 

Installation

Steps	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
b Set the SEG22 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	 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 pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG23
b Set the SEG24 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	 SEG24

Installation

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.

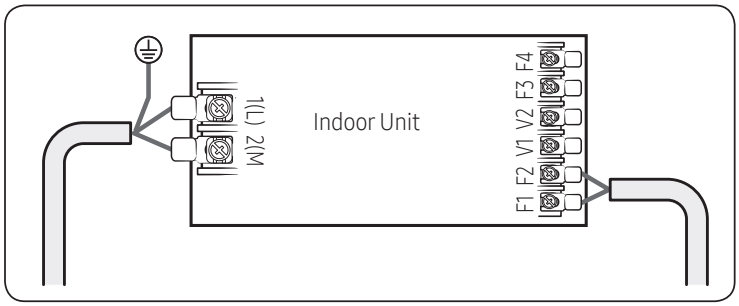
Installation

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 on page 19.

- 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			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	Reserved	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

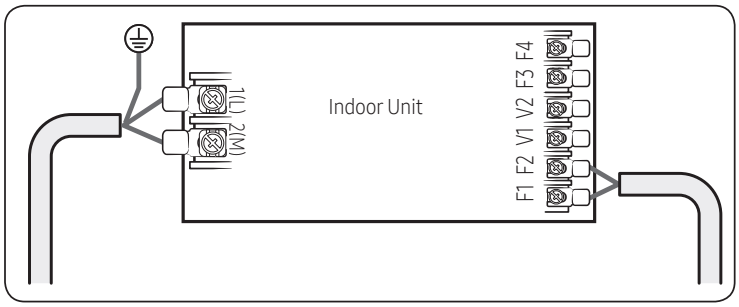
- The main address must be set to a value in the range 0 to 15. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing 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** on page 19.

- The installation options of indoor units are set to 020000-100001-200000-300000 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			Use of external room temperature sensor / Minimizing fan operation when thermostat is off [1]			Use of central control		Compensation of the fan RPM	
							Details					
	Indication	Details	Indication	Details		Indication	Use of external room temperature sensor	Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details
Indication and details	0		2		Reserved	0	Disuse	Disuse	0	Disuse	0	Disuse
						1	Use	Disuse	1	Use	1	Use
						2	Disuse	Use (Heating)				
						3	Use	Use (Heating)				
						4	Disuse	Use (Cooling)				
						5	Use	Use (Cooling)				
						6	Disuse	Use (Cooling/Heating)				
						7	Use	Use (Cooling/Heating)				
						8	Disuse	Use (Cooling Ultra low speed)				
						9	Use	Use (Cooling Ultra low speed)				
						A	Disuse	Use (Heating/Cooling Ultra low speed)				
						B	Use	Use (Heating/Cooling Ultra low speed)				

Option	SEG7		SEG8		SEG9	SEG10	SEG11		SEG12	
Function	Page		Use of drain pump [2]				WindFree Fan RPM [3]			Dew removal operation in Wind-Free mode
	Indication	Details	Indication	Details			Indication	Details	Indication	Details
Indication and details	1		0	Disuse	Reserved	Reserved	0	Default	0	Maintain blade status in Wind-Free mode
			1	Use			1	1 step ↓		
							2	2 step ↓		
			2	Use with 3 minute delay			3	3 step ↓	1	(Default) Cooling operation by opening the blade
							4	4 step ↓		
							5	5 step ↓		

Installation

Option	SEG13		SEG14			SEG15		SEG16	SEG17		SEG18	
Function	Page		Use of external control [4]			Setting the output of external control			Buzzer control		Maximum filter usage time [5]	
	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
Indication and details	2		0	Disuse	Sub, Existing Control	0	Thermo on	Reserved	0	Use of buzzer	2	1000 hours
			1	On/Off								
			2	Off								
			3	Window On/Off								
			4	Disuse	Main, Existing Control							
			5	On/Off								
			6	Off								
			7	Window On/Off								
			8	Disuse	Sub, Reverse Control	1	Operation on		1	Disuse of buzzer	6	2000 hours
			9	On/Off								
			A	Off								
			B	Window On/Off								
			C	Disuse	Main, Reverse Control							
			D	On/Off								
			E	Off								
			F	Window On/Off								

Option	SEG19		SEG20		SEG21		SEG22	SEG23			SEG24
Function	Page		Individual control with remote control [6]		Heating setting compensation [7]			Setting the MDS kit installation option [8]			
	Indication	Details	Indication	Details	Indication	Details		Indication		Details	
Indication and details	3		0 or1	Indoor 1	0	0°C (default)	Reserved	0		Disuse (Soft Off + Hard Off)	Reserved
								Standard	1	Off after 20 min (Soft Off + Hard Off)	
									2	Off after 40 min (Soft Off + Hard Off)	
									3	Off after 80 min (Soft Off + Hard Off)	
			2	Indoor 2	1	2°C		Premium	4	Off after 20 min (Soft Off + Hard Off)	
									5	Off after 40 min (Soft Off + Hard Off)	
									6	Off after 80 min (Soft Off + Hard Off)	
			3	Indoor 3	2	5°C		Standard	7	Off after 20 min (Soft Off only)	
									8	Off after 40 min (Soft Off only)	
									9	Off after 80 min (Soft Off only)	
			4	Indoor 4				Premium	A	Off after 20 min (Soft Off only)	
									B	Off after 40 min (Soft Off only)	
									C	Off after 80 min (Soft Off only)	

- 1) SEG4

By SEG4 setting, Minimizing fan operation when thermostat is off.

– Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
– Fan stops or operates Ultra low in Cooling when thermostat is off.

- 2) SEG8

Even if you set the Use of drain pump option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).

- 3) SEG11
  Compensation of the WindFree fan RPM option adjusts 20 rpm per 1 step.
- 4) SEG14
  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)				Sub (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Main (Indoor 1), Sub (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Sub (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Main (Indoor 4), Sub (Indoor 1,2,3)

- 5) SEG18
  If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- 6) SEG20
  If you set the Individual control with remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1)
- 7) SEG21
  Default value of Heating setting compensation is 5°C.
- 8) SEG23
  Soft Off: The indoor unit turns off its operation at the indicated time in the table for Installation Option after its final motion detection. But, it turns on again if the MDS detects motion.
  Hard Off: Designated time after SOFT OFF, it cannot turn on automatically when it detects motion. Users should control to turn on the indoor unit with remote control, etc.

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** on page 19.

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

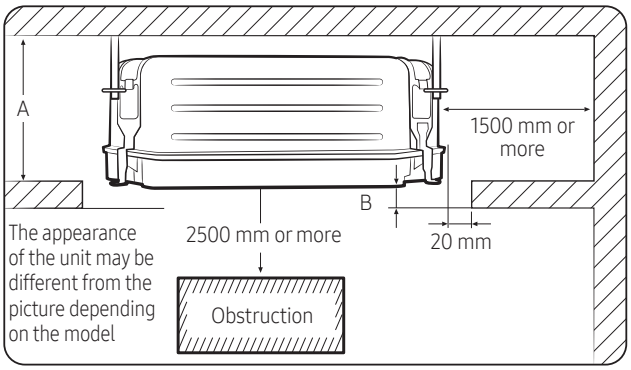
Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

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

Installation

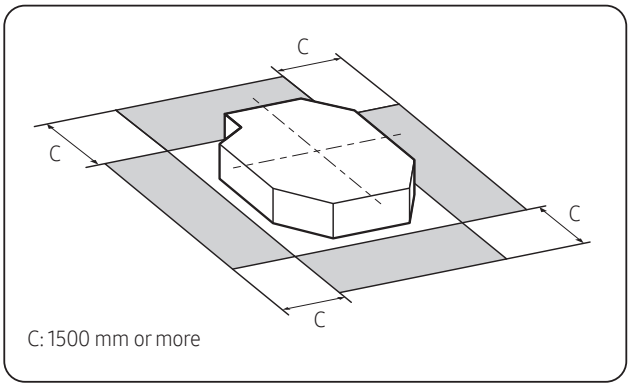
2. WindFree 4Way Cassette

Spacing requirements



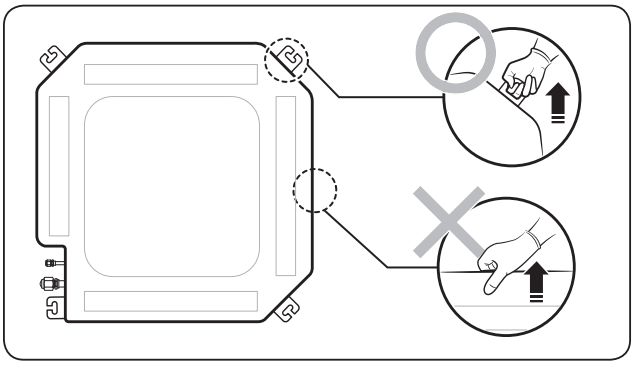
(Unit: mm)

Model	AC052BN4PKG	AC071BN4PKG	AC100BN4PKG	AC120BN4PKG	AC140BN4PKG
A	251	335			
B	17	17			



⚠ CAUTION

- Comply with the length and height limits described in the figure above.
- For the product that uses the R-32 refrigerant, Install the indoor unit on the wall 1.8 m or higher from the floor.
- 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 carry the unit by holding the refrigerant or drain pipes to avoid product damage.
- Carry the unit by holding the hanger plates located on the corners of the unit.

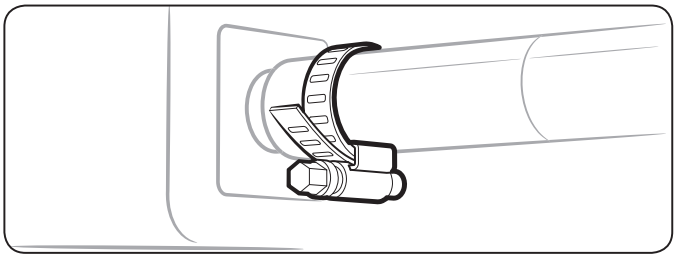


Installation

Installing the drain hose and drain pipe

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

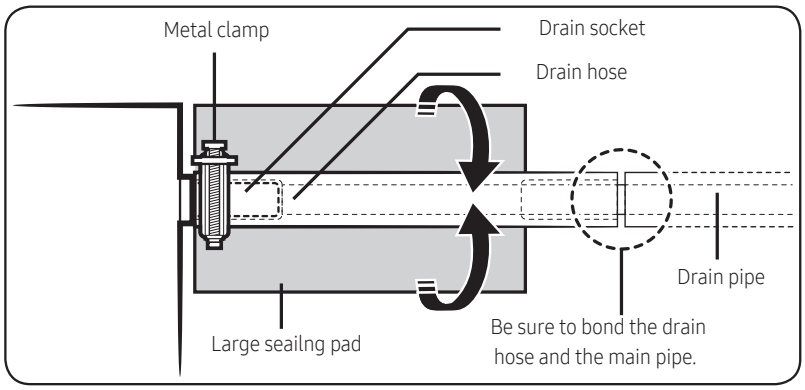
2 Tighten the metal clamp as shown in the picture.

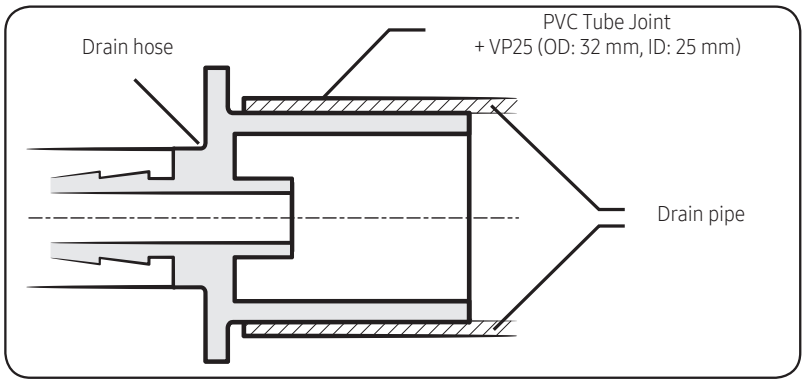


3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.

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.



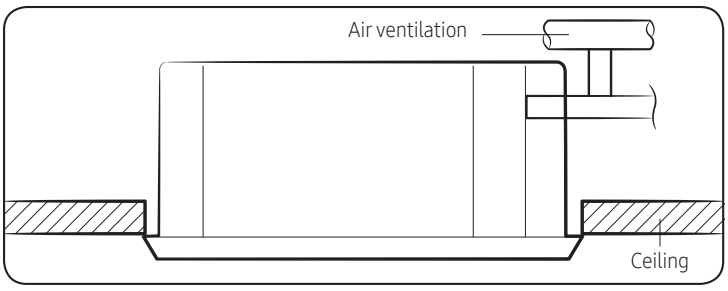


Installation

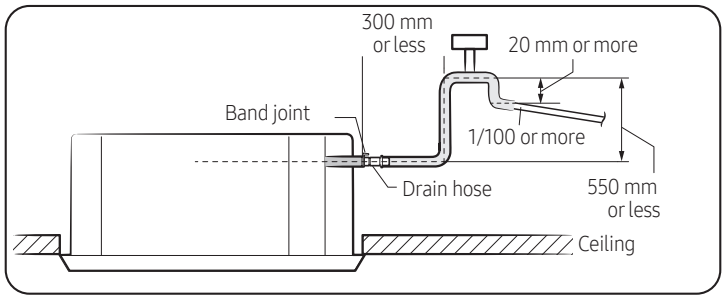
⚠ CAUTION

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

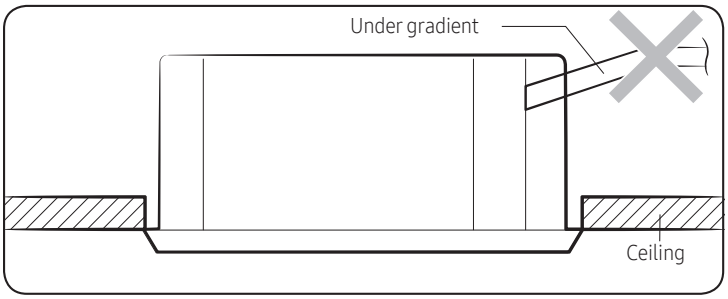
- Install air ventilation to drain condensation smoothly.



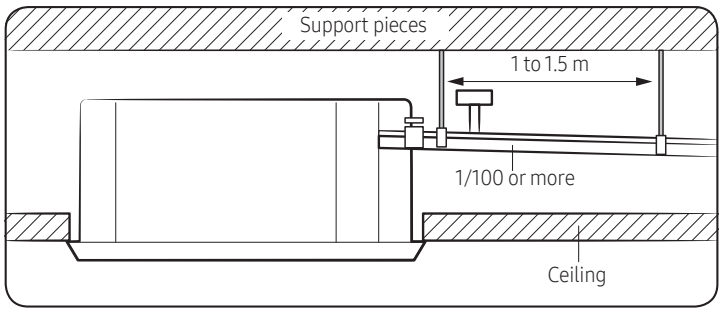
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



- 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.

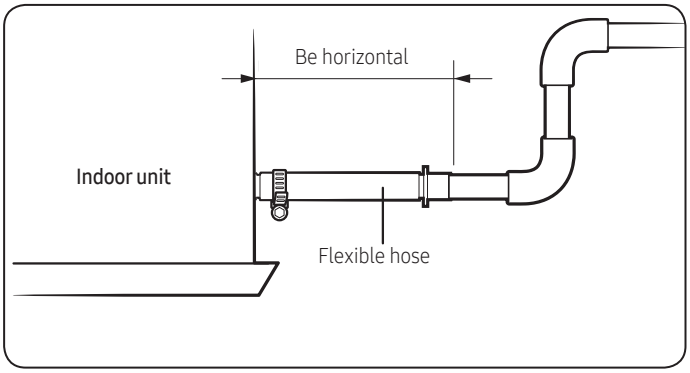


- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.

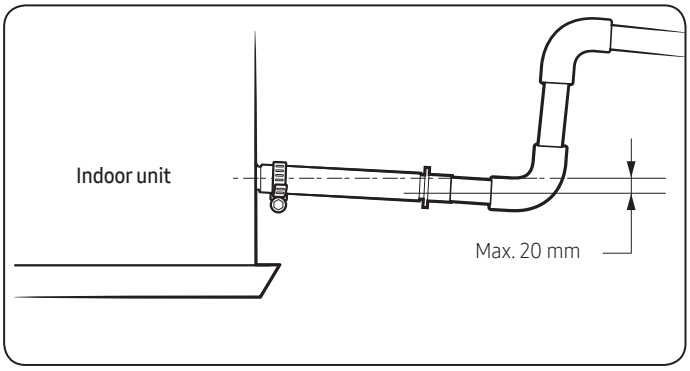


Installation

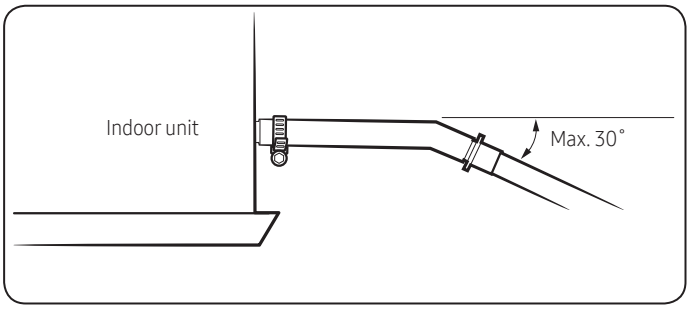
- Install horizontally.



- Max. allowable axis gap.

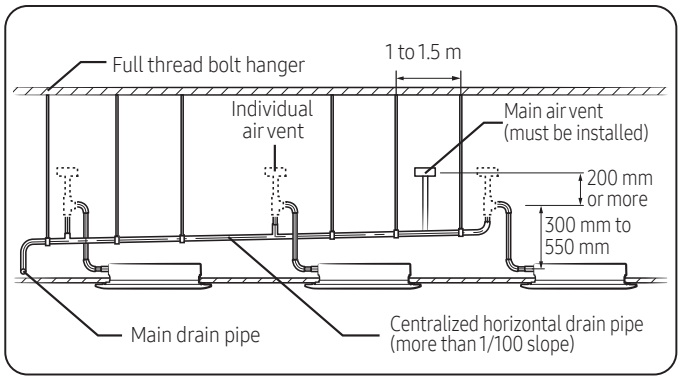


- Max. allowable bending angle.



NOTE

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



Installation

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.

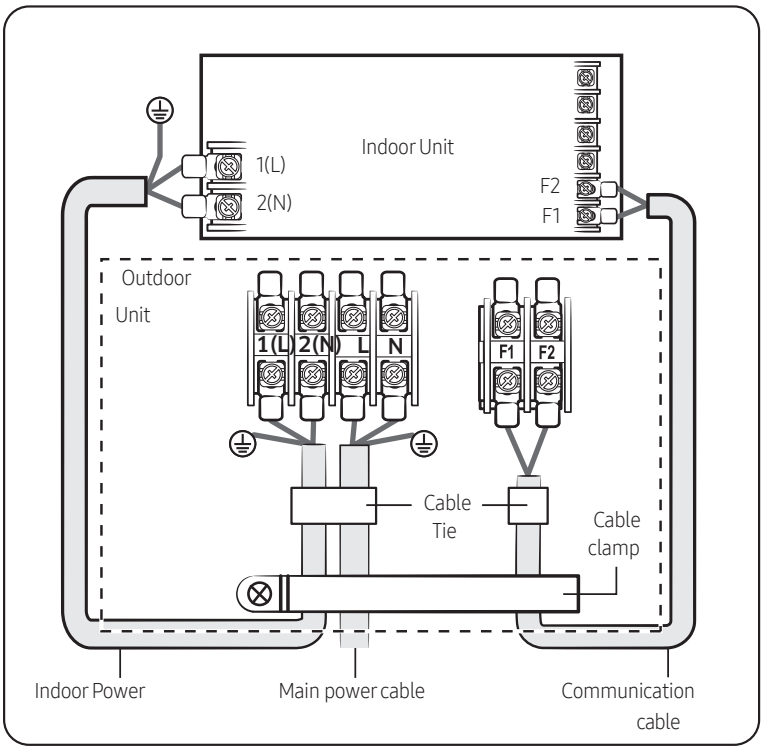
⚠ CAUTION

- 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.

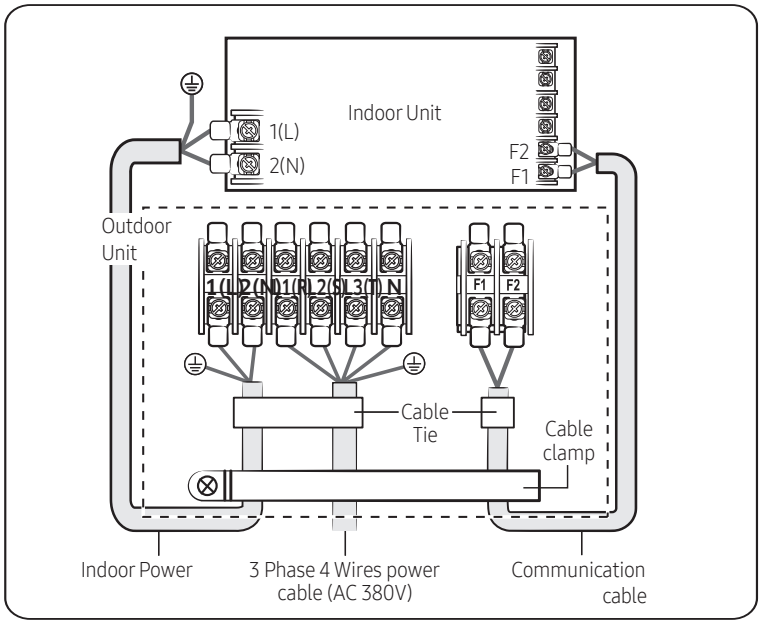
1 Remove the screw on the electrical component box and remove the cover plate.
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the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

1 phase



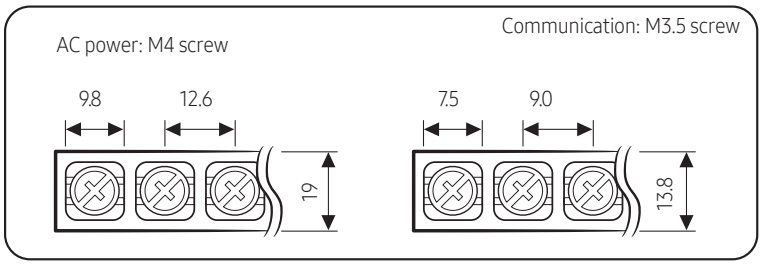
Installation

3 phase



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

(Unit: mm)

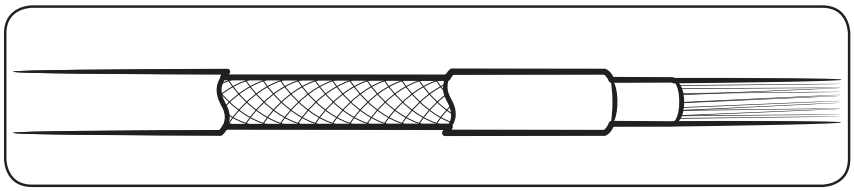


Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

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



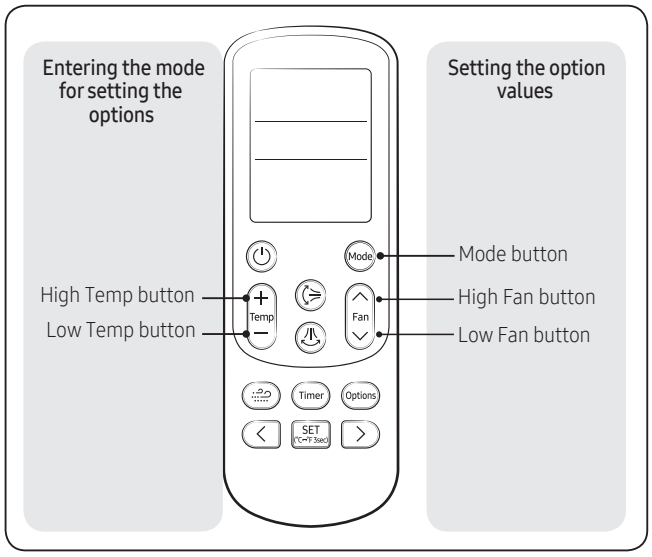
CAUTION

- 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 or LiYCY type.

Setting the indoor unit addresses and the 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



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, 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.

Installation

⚠ WARNING

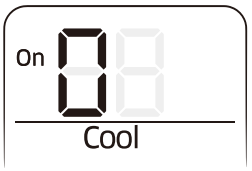
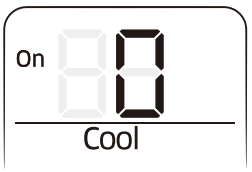
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

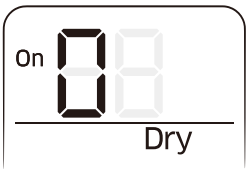
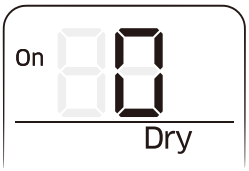
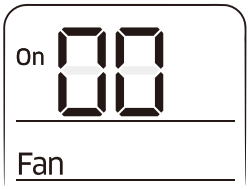
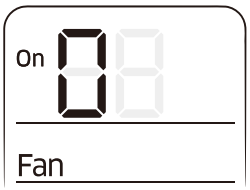
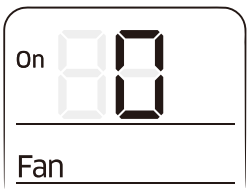
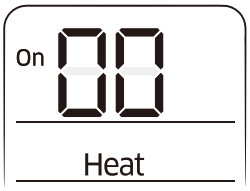
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

Installation

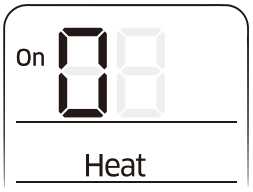
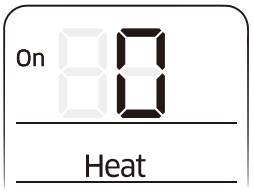
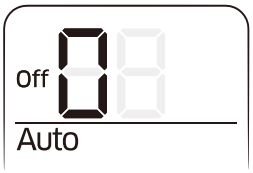
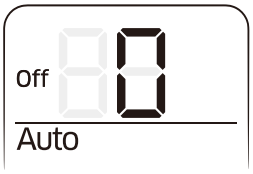
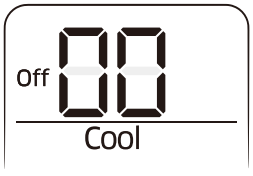
Take the steps presented in the following table:

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.	 SEG2
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	 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.	 SEG4
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	 SEG5
4 Press the Mode (Mode) button. Dry and On appear on the remote control display.	

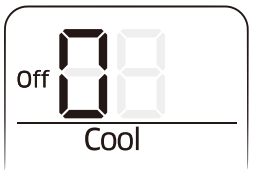
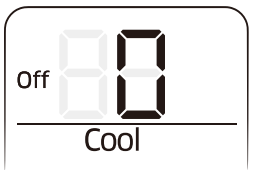
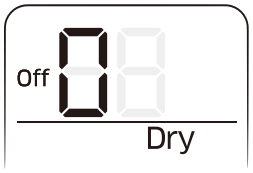
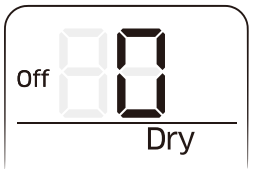
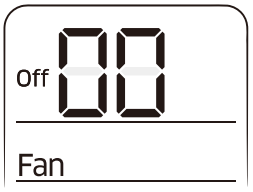
Installation

Steps	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.	 SEG 6
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	 SEG 8
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.	 SEG 9
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	 SEG 10
8 Press the Mode (Mode) button. Heat and On appear on the remote control display.	

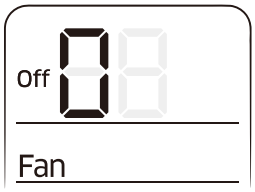
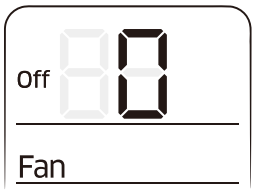
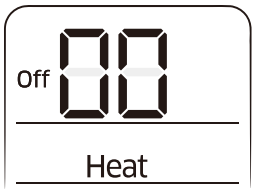
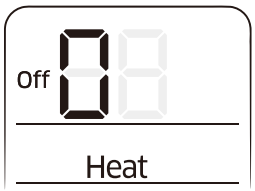
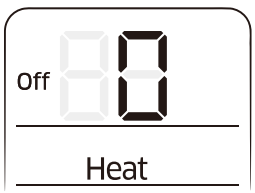
Installation

Steps	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. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 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
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.	

Installation

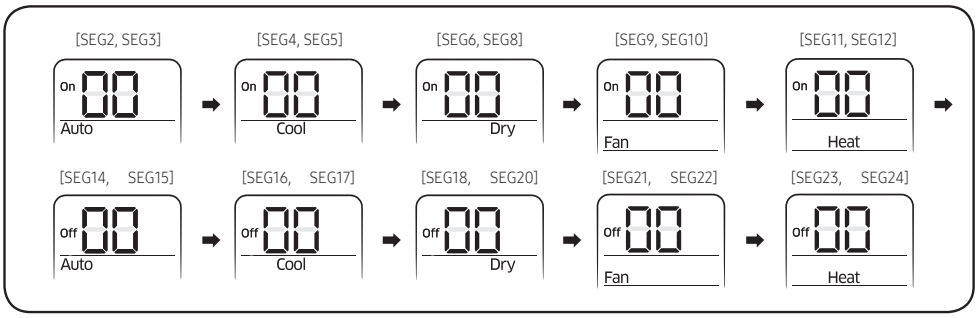
Steps	Remote control display
13 Set the SEG16 and SEG17 values: **a** Set the SEG16 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG16
b Set the SEG17 value by pressing the Fan (High Fan) button repeatedly until the value 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	 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.	 SEG18
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	 SEG20
16 Press the Mode (Mode) button. Fan and Off appear on the remote control display.	

Installation

Steps	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
b Set the SEG22 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	 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 pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG23
b Set the SEG24 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	 SEG24

Installation

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.

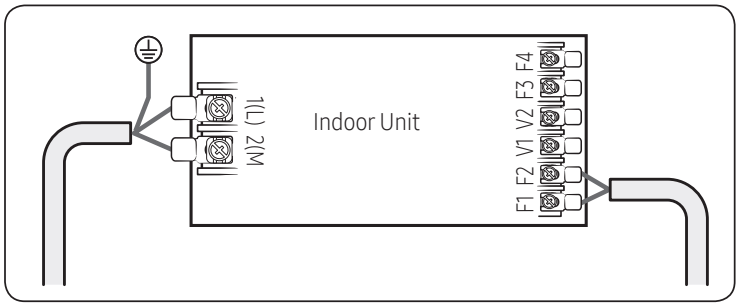
Installation

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 on page 18.

- 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			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	Reserved	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

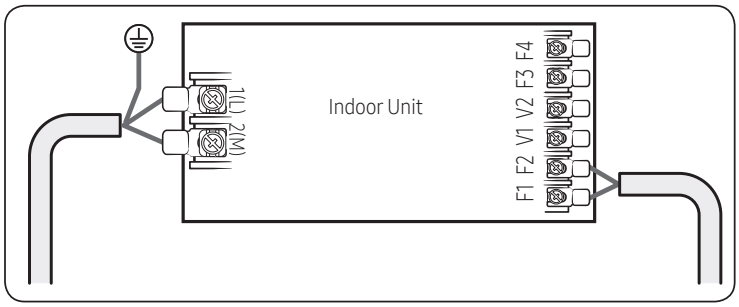
- The main address must be set to a value in the range 0 to 15. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing 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** on page 18.

- The installation options of indoor units are set to 020000-100001-200000-300000 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			Use of external room temperature sensor / Minimizing fan operation when thermostat is off [1]			Use of central control		Compensation of the fan RPM	
	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
							Use of external room temperature sensor	Minimizing fan operation when thermostat is off	0	Disuse	0	Disuse
Indication and details	0		2		Reserved	0	Disuse	Disuse	1	Use	1	Use
						1	Use	Disuse				
						2	Disuse	Use (Heating)				
						3	Use	Use (Heating)				
						4	Disuse	Use (Cooling)				
						5	Use	Use (Cooling)				
						6	Disuse	Use (Cooling/Heating)				
						7	Use	Use (Cooling/Heating)				
						8	Disuse	Use (Cooling Ultra low speed)				
						9	Use	Use (Cooling Ultra low speed)				
						A	Disuse	Use (Heating/ Cooling Ultra low speed)				
						B	Use	Use (Heating/ Cooling Ultra low speed)				

Option	SEG7		SEG8		SEG9	SEG10	SEG11		SEG12	
Function	Page		Use of drain pump [2]				WindFree Fan RPM [3]		Dew removal operation in WindFree mode	
	Indication	Details	Indication	Details			Indication	Details	Indication	Details
Indication and details	1		0	Disuse	Reserved	Reserved	0	Default	0	Maintain blade status in WindFree mode
							1	1 STEP ↓		
							2	2 STEP ↓		
			1	Use			3	3 STEP ↓		
							4	4 STEP ↓	1	(Default) Cooling operation by opening the blade
			2	Use with 3-min delay			5	5 STEP ↓		

Installation

Option	SEG13		SEG14			SEG15		SEG16	SEG17		SEG18	
Function	Page		Use of external control [4]			Setting the output of external control			Buzzer control		Maximum filter usage time [5]	
	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
Indication and details	2		0	Disuse	Sub, Existing control	0	Thermo On	Reserved	0	Disuse	2	1000 hrs
			1	On/Off								
			2	Off								
			3	Window On/Off								
			4	Disuse	Main, Existing control							
			5	On/Off								
			6	Off								
			7	Window On/Off								
			8	Disuse	Sub, Reverse control	1	Operation On		1	Use	6	2000 hrs
			9	On/Off								
			A	Off								
			B	Window On/Off								
			C	Disuse	Main, Reverse control							
			D	On/Off								
			E	Off								
			F	Window On/Off								

Option	SEG19		SEG20		SEG21		SEG22	SEG23			SEG24
Function	Page		Individual control with remote control [6]		Heating setting compensation [7]			Setting the MDS kit installation option [8]			
	Indication	Details	Indication	Details	Indication	Details		Indication		Details	
Indication and details	3		0 or 1	Indoor 1	0	Default	Reserved	0		Disuse (Soft Off + Hard Off)	Reserved
								Standard	1	Off after 20 min (Soft Off + Hard Off)	
									2	Off after 40 min (Soft Off + Hard Off)	
									3	Off after 80 min (Soft Off + Hard Off)	
			2	Indoor 2	1	2 °C		Premium	4	Off after 20 min (Soft Off + Hard Off)	
									5	Off after 40 min (Soft Off + Hard Off)	
									6	Off after 80 min (Soft Off + Hard Off)	
			3	Indoor 3				Standard	7	Off after 20 min (Soft Off only)	
					2	5 °C			8	Off after 40 min (Soft Off only)	
									9	Off after 80 min (Soft Off only)	
			4	Indoor 4				Premium	A	Off after 20 min (Soft Off only)	
									B	Off after 40 min (Soft Off only)	
									C	Off after 80 min (Soft Off only)	

- 1) SEG4
  By SEG4 setting, Minimizing fan operation when thermostat is off.
  - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
  - Fan stops or operates Ultra low in Cooling when thermostat is off.
- 2) SEG8
  Even if you set the Use of drain pump option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- 3) SEG11
  Compensation of the WindFree fan RPM option adjusts 20 rpm per 1 step.
- 4) SEG14
  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)				Sub (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Main (Indoor 1), Sub (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Sub (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Main (Indoor 4), Sub (Indoor 1,2,3)

- 5) SEG18
  If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- 6) SEG20
  If you set the Individual control with remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1)
- 7) SEG21
  Default value of Heating setting compensation is 5°C.
- 8) SEG23
  Soft Off: The indoor unit turns off its operation at the indicated time in the table for Installation Option after its final motion detection. But, it turns on again if the MDS detects motion.
  Hard Off: Designated time after SOFT OFF, it cannot turn on automatically when it detects motion. Users should control to turn on the indoor unit with remote control, etc.

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** on page 18.

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

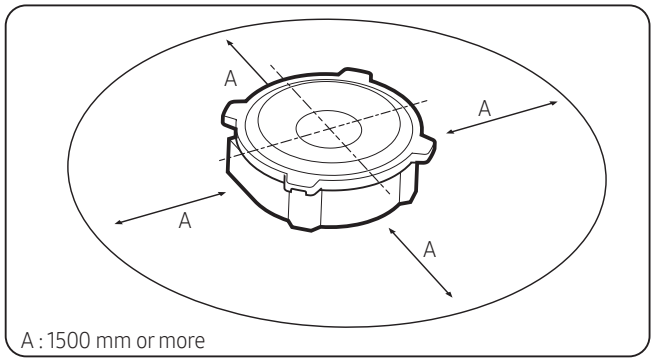
Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

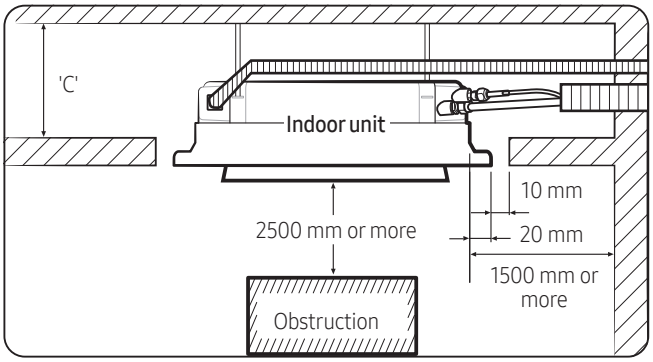
Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Function	Page	Mode	Option mode to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

Installation

3. 360 Cassette

Spacing requirements



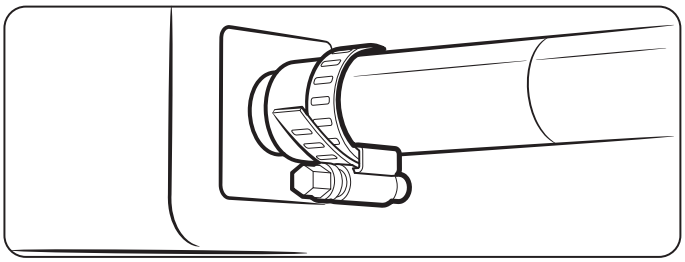


(Unit: mm)

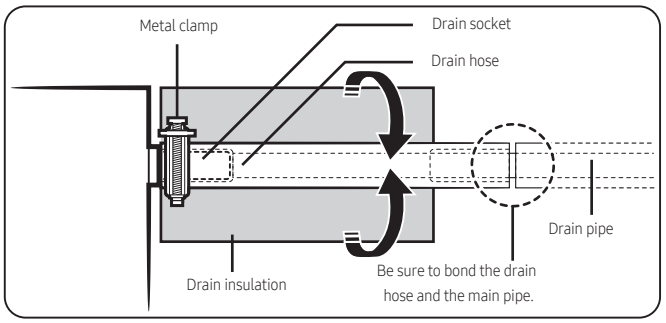
Model	AC052BN6PKG	AC071BN6PKG, AC100BN6PKG AC120BN6PKG, AC140BN6PKG
C	261	345

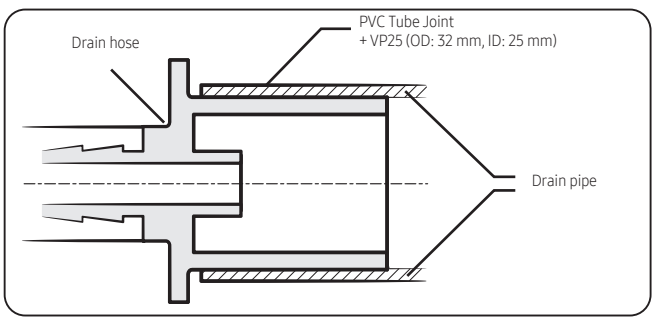
Installing the drain hose and drain pipe

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 drain insulation 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.



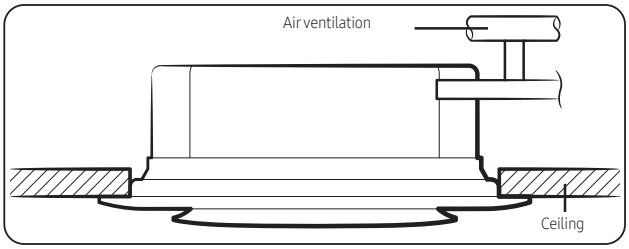


Installation

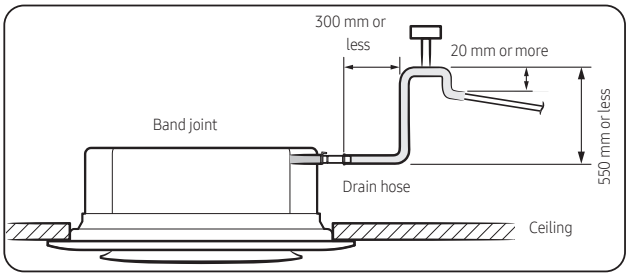
⚠ CAUTION

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

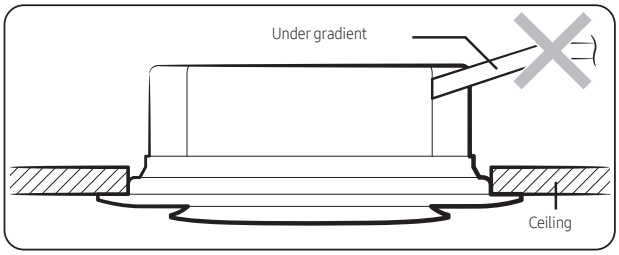
- Install air ventilation to drain condensation smoothly.



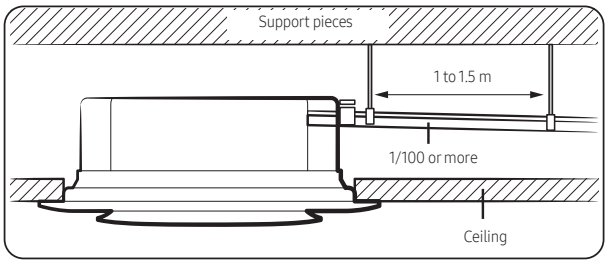
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



- 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.

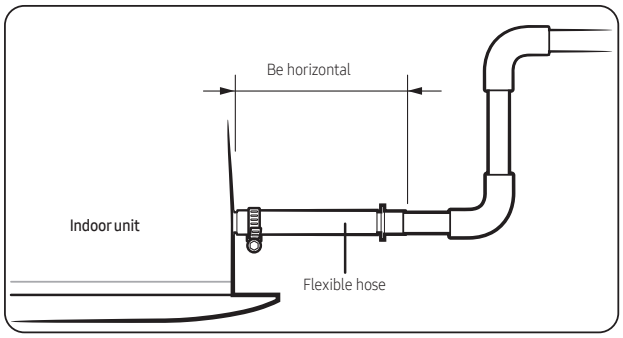


- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.

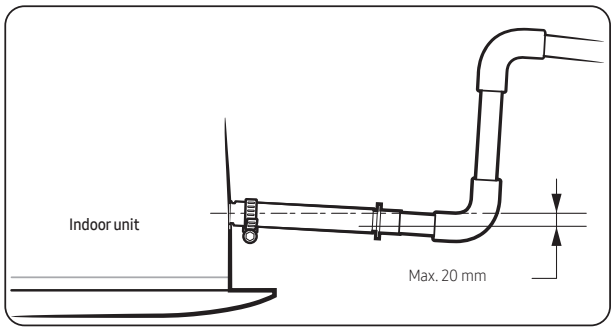


Installation

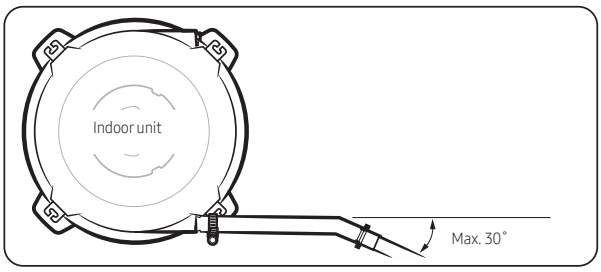
- Install horizontally.



- Max. allowable axis gap.

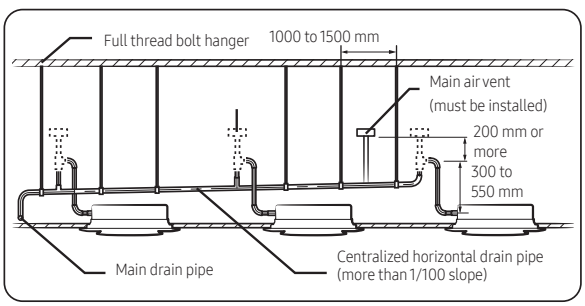


- Max. allowable bending angle.



NOTE

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



Installation

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.

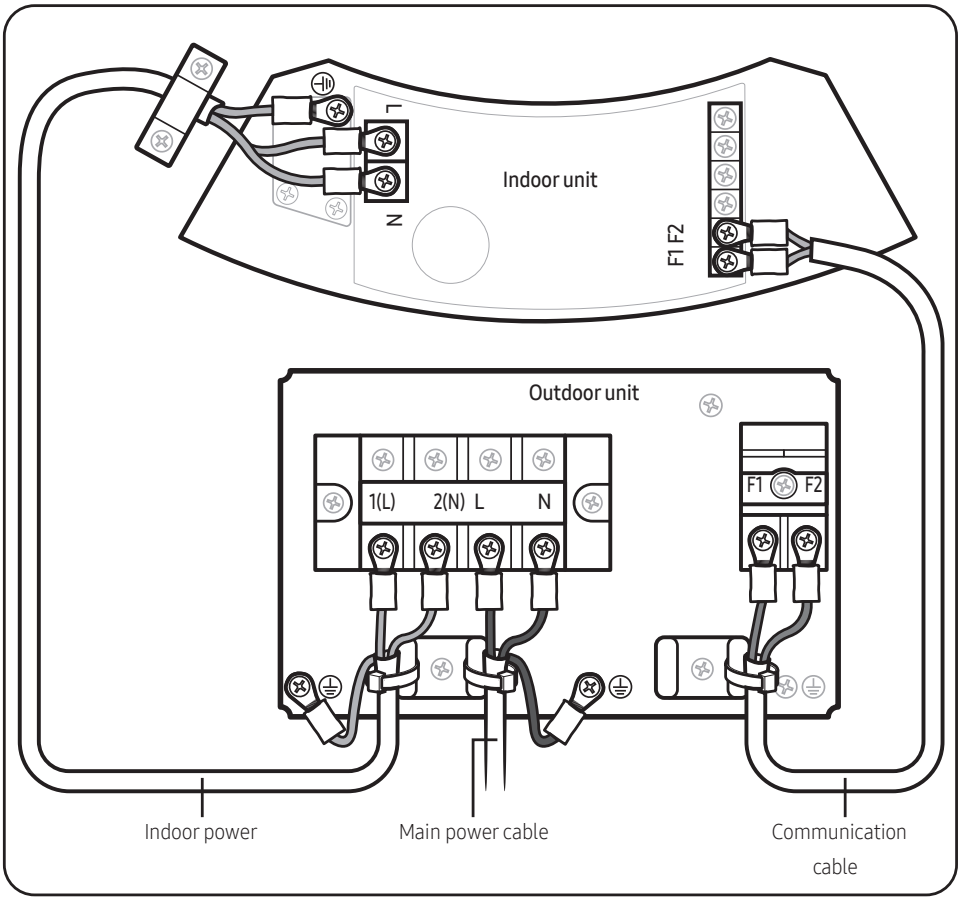
⚠ CAUTION

- 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.

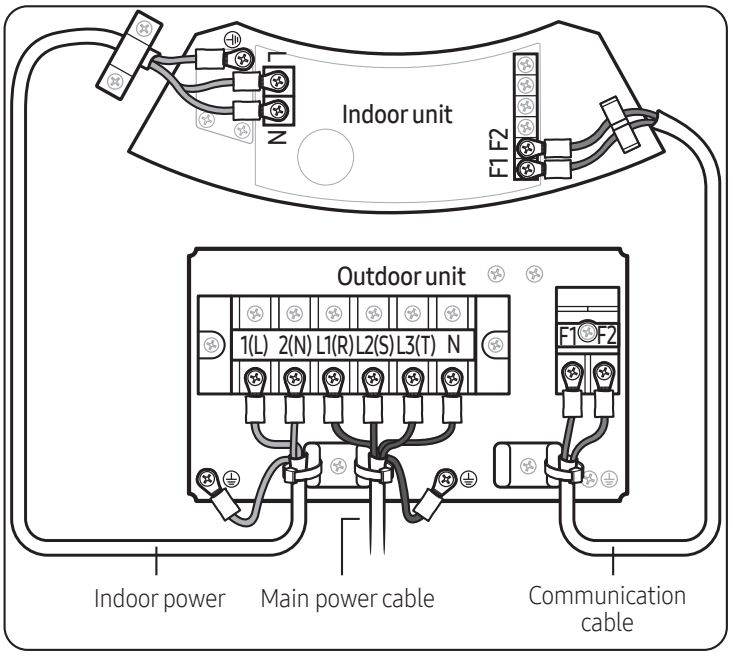
1 Remove the screw on the electrical component box and remove the cover plate.
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the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

Wiring terminals) 1 phase



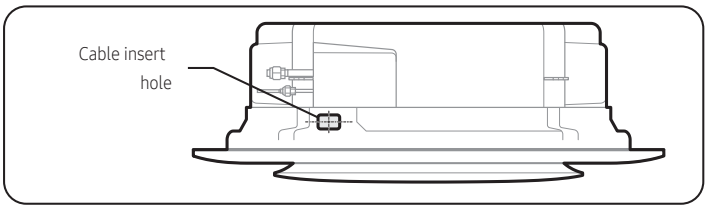
Installation

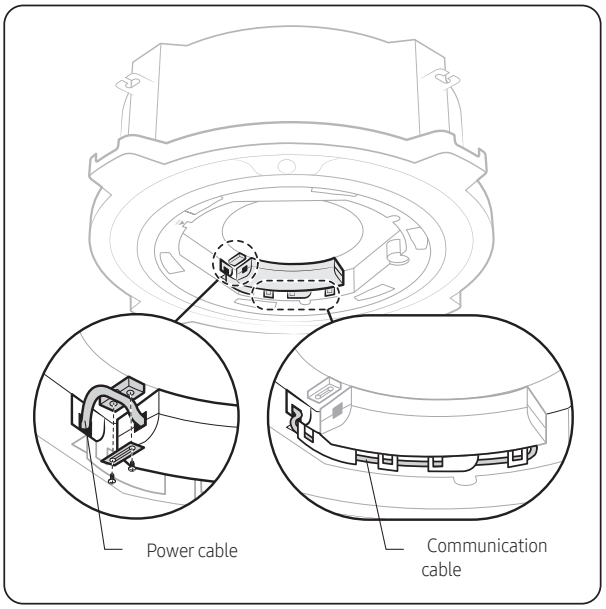
Wiring terminals) 3 phase



NOTE

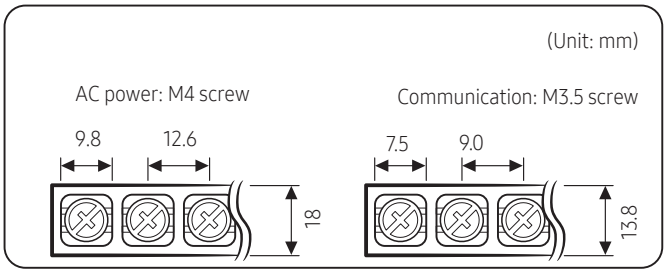
- Insert the power and the communication cables to the cable insert hole, then arrange and connect the cables, as shown in the figure:





Installation

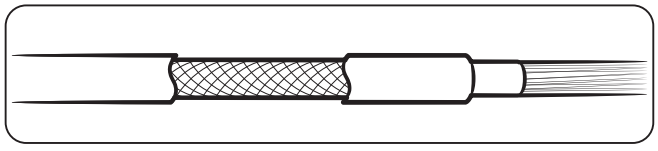
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	0.75㎟↑, 3wires
Communication cable		
0.75㎟↑, 2wires		



- 1 N·m = 10 kgf·cm

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

- 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.

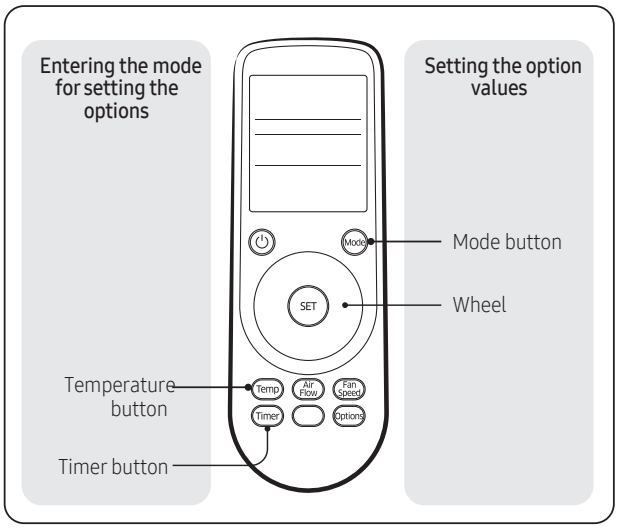
Installation

Setting the indoor unit addresses and the installation options

addresses and the 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-KH**U remote control (for 360 cassette only)



NOTE

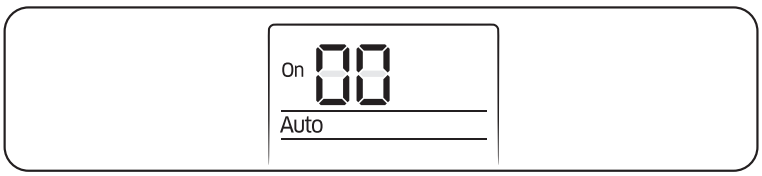
- The remote control display may vary depending on the model.

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:



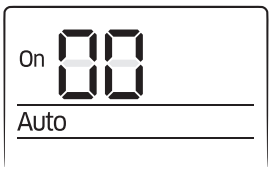
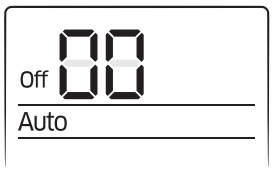
2 Set the option values.

CAUTION

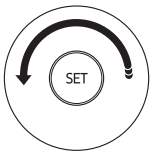
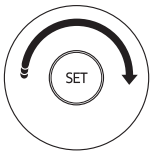
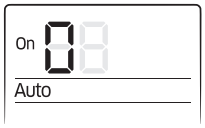
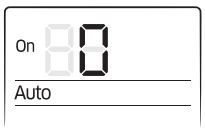
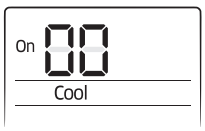
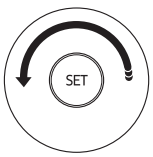
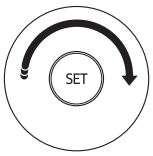
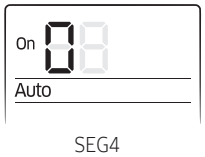
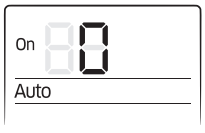
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

Installation

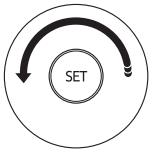
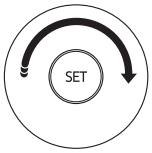
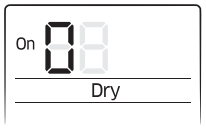
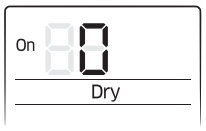
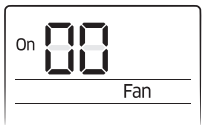
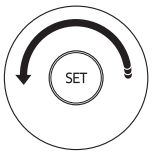
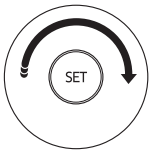
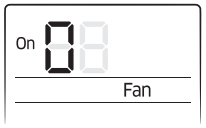
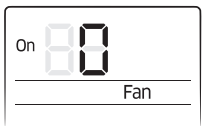
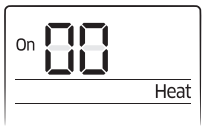
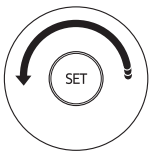
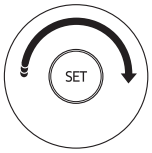
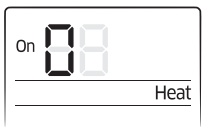
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

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

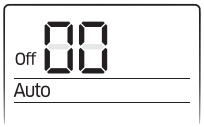
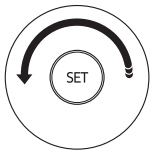
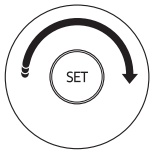
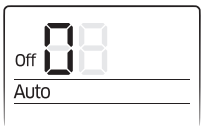
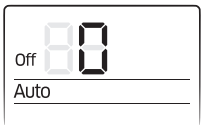
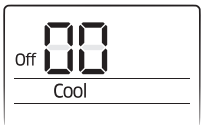
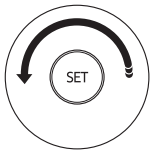
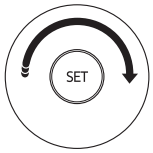
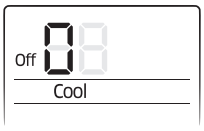
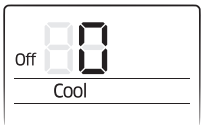
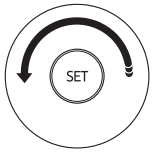
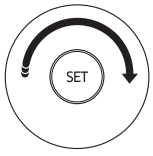
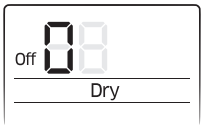
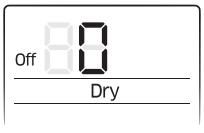
Take the steps presented in the following table:

Steps	Remote control display
1 Set the SEG2 and SEG3 values: **a** Set the SEG2 value by 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. 	 SEG2  SEG3
When you rotate the Wheel, 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 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. 	 SEG4  SEG5
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	

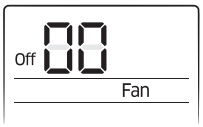
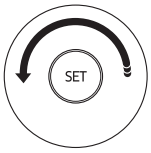
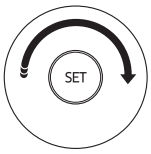
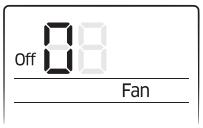
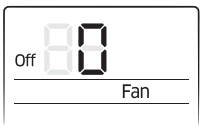
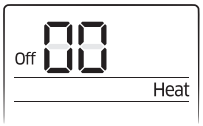
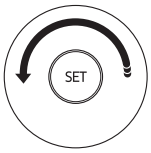
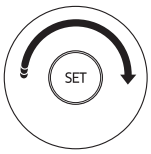
Installation

Steps	Remote control display
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 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. 	 SEG6  SEG8
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
6 Press the (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.  **b** Set the SEG10 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. 	 SEG9  SEG10
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
8 Press the (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.  **b** Set the SEG12 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. 	 SEG11  SEG12
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	

Installation

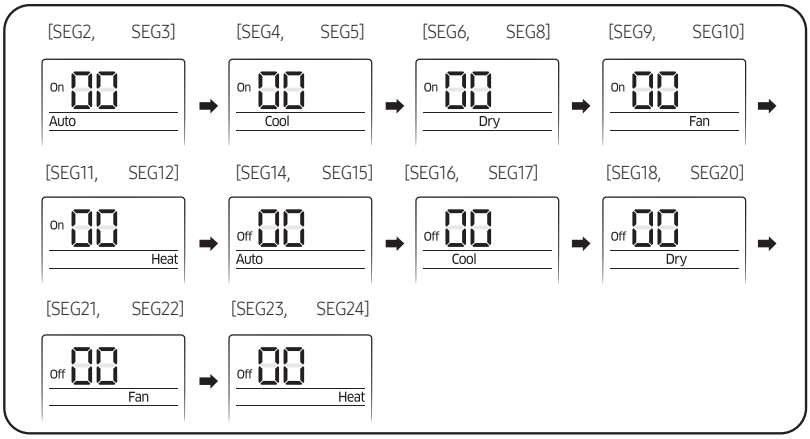
Steps	Remote control display
10 Press the (Mode) button. **Auto** and **Off** appear on the remote control display.	
11 Set the SEG14 and SEG15 values: **a** Set the SEG14 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display.  **b** Set the SEG15 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. 	 SEG14  SEG15
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
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 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. 	 SEG16  SEG17
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
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 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. 	 SEG18  SEG20
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	

Installation

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 rotating the Wheel counterclockwise until the value you want to set appears on the 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. 	 SEG21  SEG22
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	
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 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. 	 SEG23  SEG24
When you rotate the Wheel, values appear in the following order: 0 → 1 → ··· E → F	

Installation

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

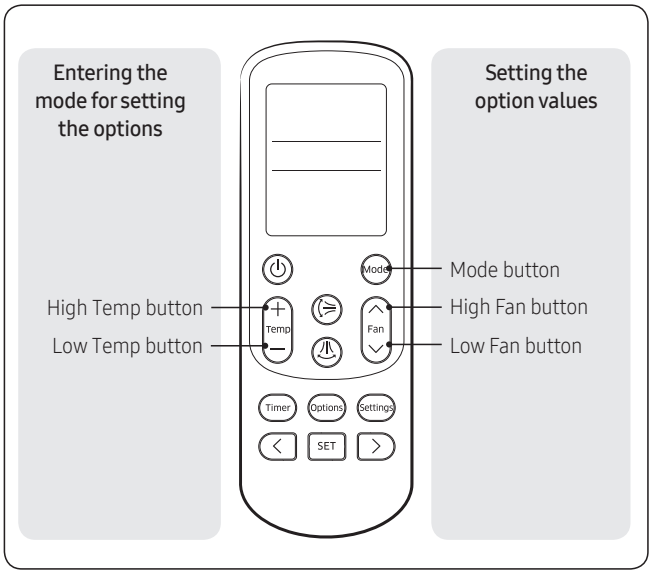


4 Save the option values into the indoor unit:
Point the remote control to the remote control sensor on the indoor unit and then press the (Power) button on the remote control twice. Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound 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 unit by disconnecting and then reconnecting the power cable of the indoor unit or by pressing the RESET button on the outdoor unit.
- **b** Remove the batteries from the remote control, insert them again, and then press the (Power) button on the remote control.

MR-EH00U and AR-EHU remote controls**



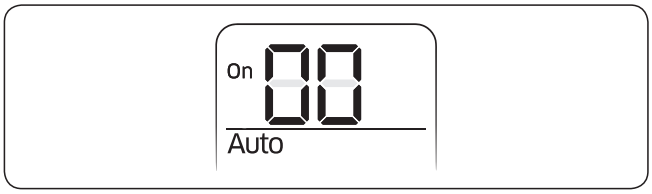
NOTE

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

Installation

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

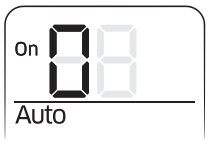
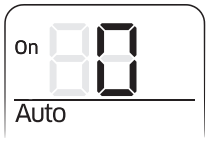
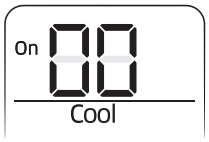
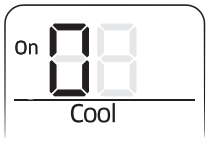
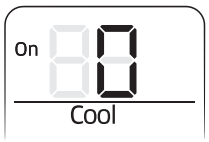
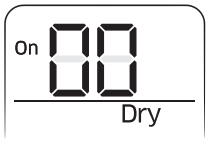
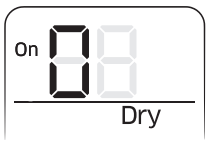
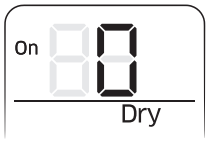
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

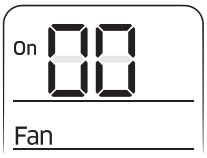
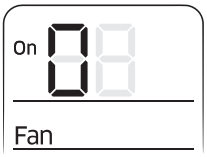
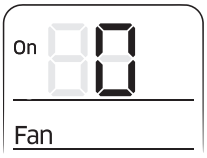
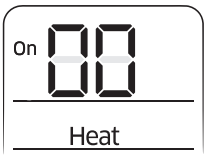
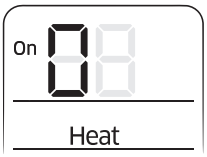
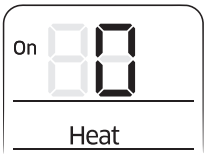
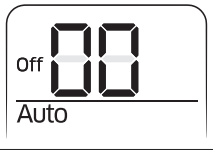
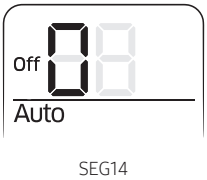
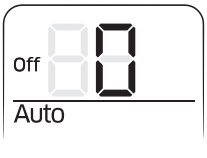
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

Installation

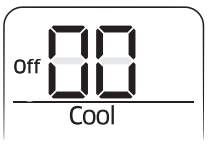
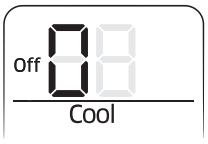
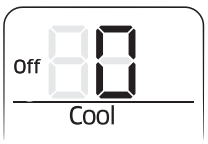
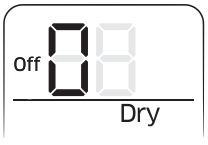
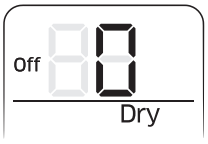
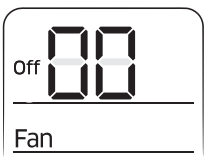
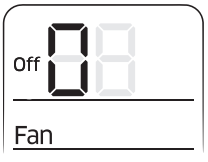
Take the steps presented in the following table:

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. **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 press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG2  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. **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 press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG4  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. **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 press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG6  SEG8

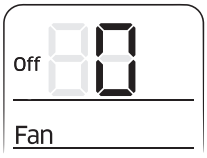
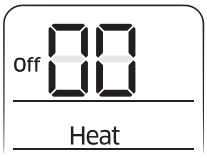
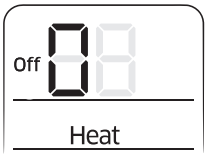
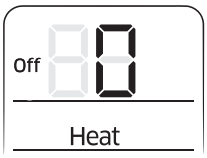
Installation

Steps	Remote control display
6 Press the (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 (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG10 value by rotating the Wheel clockwise 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	 SEG9  SEG10
8 Press the (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 (Low Fan) button repeatedly until the value you want to set appears on the remote control display. b Set the SEG12 value by rotating the Wheel clockwise 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	 SEG11  SEG12
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 rotating the Wheel clockwise until the value you want to set appears on the remote control display.	 SEG14  SEG15

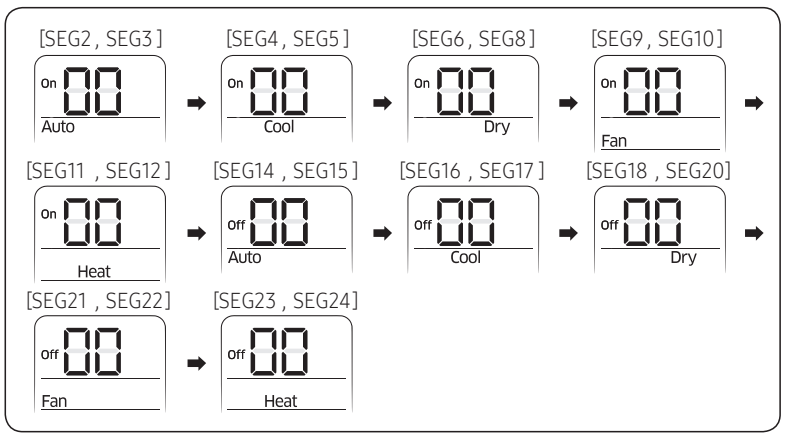
Installation

Steps	Remote control display
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
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 rotating the Wheel clockwise until the value you want to set appears on the remote control display.	 SEG16  SEG17
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
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 rotating the Wheel clockwise until the value you want to set appears on the remote control display.	 SEG18  SEG20
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
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.	 SEG21

Installation

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.	 SEG22
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	
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.	 SEG23
b Set the SEG24 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display.	 SEG24
When you press the (Low Fan) or (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	

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 unit by disconnecting and then reconnecting the power cable of the indoor unit or by pressing the RESET button on the outdoor unit.

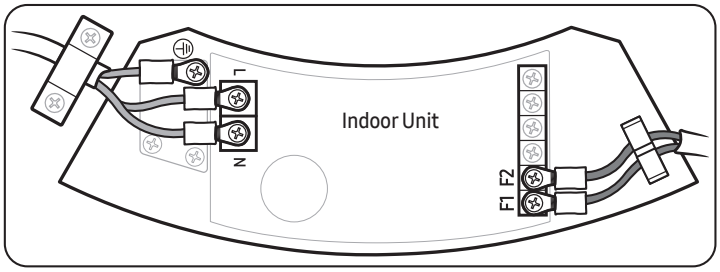
b Remove the batteries from the remote control, insert them again, and then press the (Power) button on the remote control.

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 Make sure that the panel is connected to the indoor unit so that it can receive options.

3 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** on page 23.

- 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 addresses.
- The main address of each indoor unit is set automatically. However, you can set the main address manually if the relevant outdoor option is set to MANUAL ADDRESS.

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Function	Page		Mode		Setting main address			Indoor unit number		Indoor unit number	
	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details
Indication and details	0		A		0	No main address	Reserved	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	Details			Indication	Details		Indication	Details	Indication	Details
Indication and details	1				0	No RMC address		RMC1	0 to 2	RMC2	0 to F
					1	RMC address setting mode					

Installation

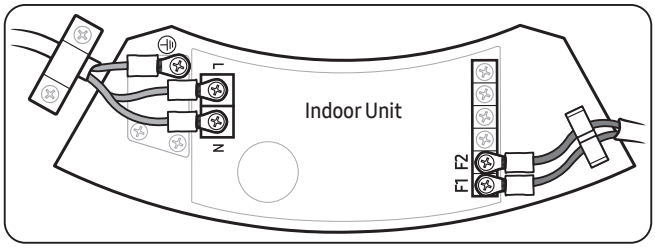
⚠ CAUTION

- 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 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.
3 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 on page 23.

- The installation options of indoor units are set to 020010-100000-200000-300000 by default.
- The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Option	SEG 1		SEG 2		SEG 3	SEG 4			SEG 5		SEG 6	
Function	Page		Mode			Use of external room temperature sensor / Minimizing fan operation when thermostat is off [1]			Central control		Compensation of the fan RPM	
	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
							Use of external room temperature sensor	Minimizing fan operation when thermostat is off				
Indication and details	0		2		Reserved	0	Disuse	Disuse	0	Disuse	0	Disuse (Recessed installation)
						1	Use	Disuse				
						2	Disuse	Use (Heating)			1	High-ceiling mode (Recessed installation)
						3	Use	Use (Heating)				
						4	Disuse	Use (Cooling)				
						5	Use	Use (Cooling)	1	Use	4	Disuse (Exposed installation)
						6	Disuse	Use (Cooling/Heating)				
						7	Use	Use (Cooling/Heating)				
						8	Disuse	Use (Cooling Ultra low speed)			5	High-ceiling mode (Exposed installation)
						9	Use	Use (Cooling Ultra low speed)				
						A	Disuse	Use (Heating/Cooling Ultra low speed)				
						B	Use	Use (Heating/Cooling Ultra low speed)				

Installation

Option	SEG 7		SEG 8		SEG 9	SEG 10	SEG 11	SEG 12
Function	Page		Use of drain pump [2]		Reserved	Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details				
	1		0	Disuse				
			1	Use				
			2	Use with 3 minute delay				

Option	SEG 13		SEG 14			SEG 15		SEG 16	SEG 17		SEG 18	
Function	Page		Use of external control[3]			Setting the output of extermal control			Buzzer control		Maximum filter usage time [4]	
Indication and details	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
	2		0	Disuse	Sub, Existing control	0	Thermo on	Reserved	0	Use of buzzer	2	1000 hours
			1	On/Off								
			2	Off								
			3	Window On/Off								
			4	Disuse	Main, Existing control							
			5	On/Off								
			6	Off								
			7	Window On/Off								
			8	Disuse	Sub, Reverse control	1	Operation On		1	Disuse of buzzer	6	2000 hours
			9	On/Off								
			A	Off								
			B	Window On/Off								
			C	Disuse	Main, Reverse control							
			D	On/Off								
			E	Off								
			F	Window On/Off								

Option	SEG 19		SEG 20		SEG 21		SEG 22	SEG 23			SEG 24	
Function	Page		Individual control with remote control [5]		Heating setting compensation [6]			Setting the MDS Kit installation option [7]			Cycle time of swing	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication		Details	Indication	Details
	3		0,1	Indoor 1	0	Default	Reserved	0		Disuse (Soft Off+Hard off)	0	34 seconds (default)
								Standard	1	Off after 20 min. (Soft Off+Hard off)		
									2	Off after 40 min. (Soft Off+Hard off)		
									3	Off after 80 min. (Soft Off+Hard off)		
			2	Indoor 2	1	2 ℃		Premium	4	Off after 20 min. (Soft Off+Hard off)	1	30seconds
									5	Off after 40 min. (Soft Off+Hard off)		
									6	Off after 80 min. (Soft Off+Hard off)		
			3	Indoor 3				Standard	7	Off after 20 min. (Soft Off only)		
					2	5 ℃			8	Off after 40 min. (Soft Off only)	2	38 seconds
									9	Off after 80 min. (Soft Off only)		
			4	Indoor 4				Premium	A	Off after 20 min. (Soft Off only)		
									B	Off after 40 min. (Soft Off only)		
									C	Off after 80 min. (Soft Off only)		

- [1] SEG4
  By SEG4 setting, Minimizing fan operation when thermostat is off.
  - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
  - Fan stops or operates Ultra low in Cooling when thermostat is off.
- [2] SEG8
  Even if you set the Use of drain pump option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- [3] SEG14
  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)				Sub (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Main (Indoor 1), Sub (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Sub (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Main (Indoor 4), Sub (Indoor 1,2,3)

- [4] SEG18
  If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- [5] SEG20
  If you set the Individual control with remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1)
- [6] SEG21
  Default value of Heating setting compensation is 5°C.
- [7] SEG23
  Soft Off: The indoor unit turns off its operation at the indicated time in the table for Installation Option after its final motion detection. But, it turns on again if the MDS detects motion.
  Hard Off: Designated time after SOFT OFF, it cannot turn on automatically when it detects motion. Users should control to turn on the indoor unit with remote control, etc.

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** on page 21.

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

Installation

4. Duct Type

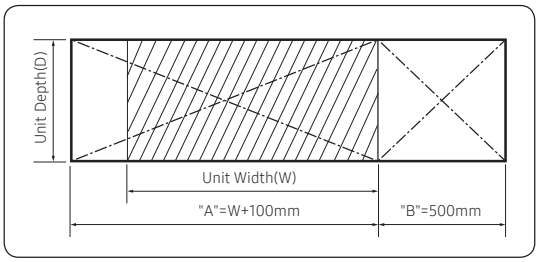
Spacing requirements for installation

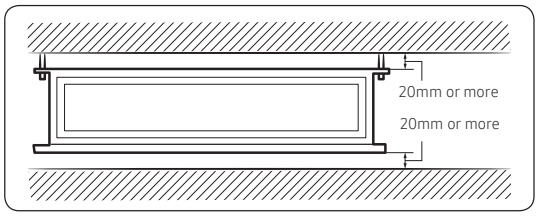
Construction Standard for Inspection Hole

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.

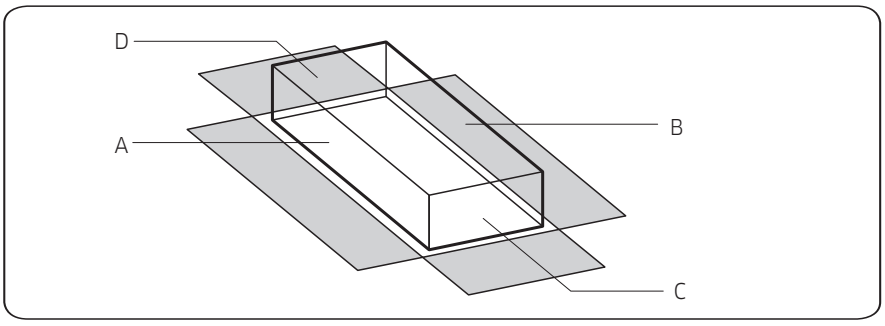
- **a** Height is more than 0.5m : Only "B" [Inspection for PBA] is applied.
- **b** Height is less than 0.5m : Both "A"&"B" are applied.
- **c** "A"&"B" are inspection holes .





- 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.

Optional: Insulating the body of the indoor unit



Thickness: more than 10mm

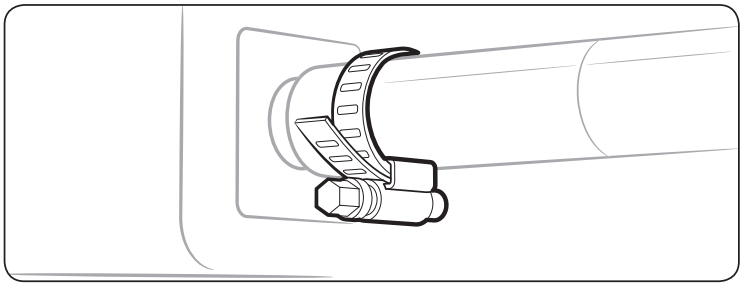
Indoor Unit	AC035BNMPKG AC052BNMPKG	AC071BNMPKG	AC100BNMPKG AC120BNMPKG AC140BNMPKG
	850 X 700 X 250	1200 X 700 X 250	1300 X 700 X 300
A	850 X 250	1200 X 250	1300 X 300
B	850 X 250	1200 X 250	1300 X 300
C	700 X 250	700 X 250	700 X 300
D	700 X 250	700 X 250	700 X 300
Front/ Back	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.		

(Unit: mm)

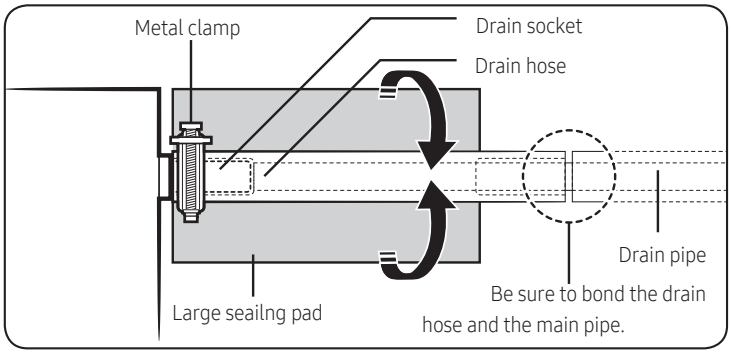
Installation

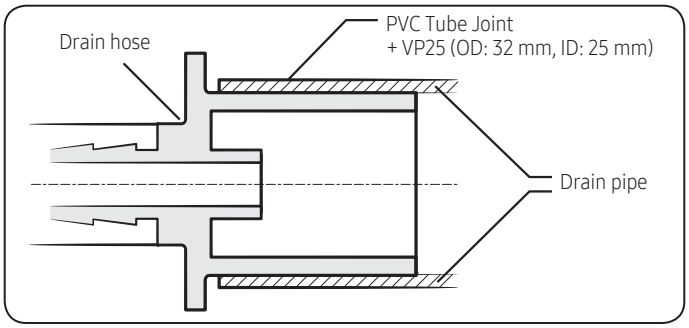
Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.
2 Tighten the metal clamp as shown in the picture.



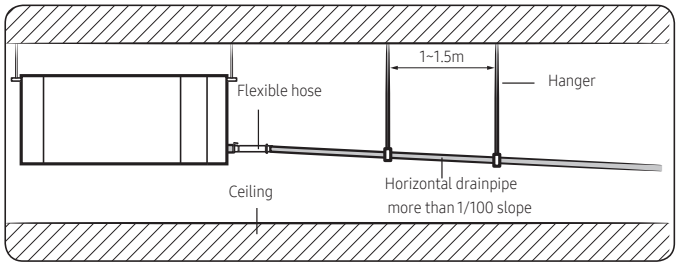
3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
5 Push the drain hose up to insulation when connecting the drain hose to drain socket.





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.



Installation

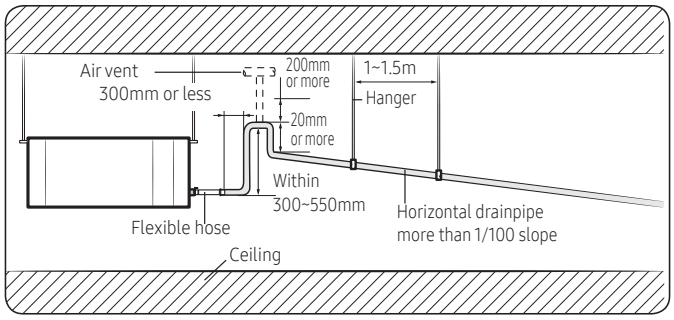
With the drain pump

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

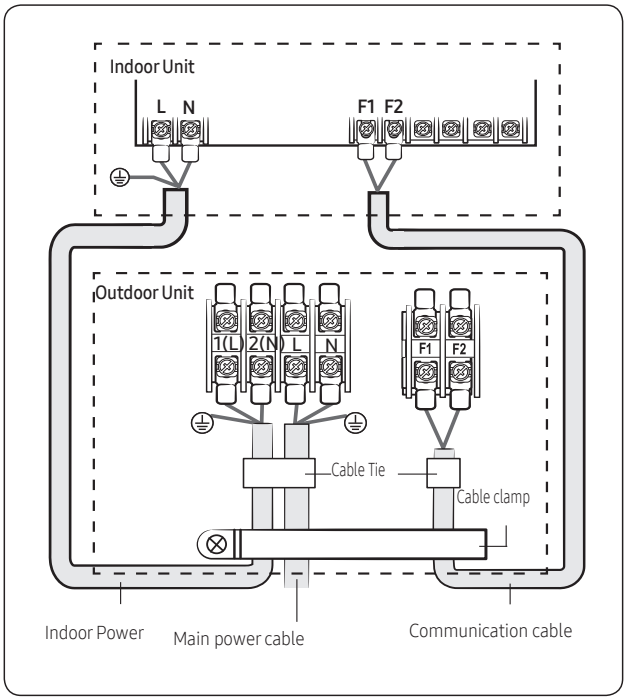
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

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.

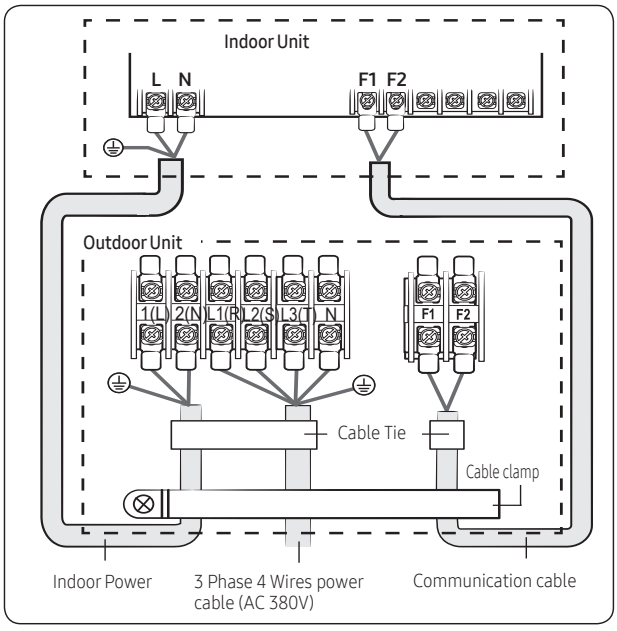
1 Remove the screw on the electrical component box and remove the cover plate.
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the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

Installation

(Wiring terminals) 1 phase (035/052/071/100/120/140**)**

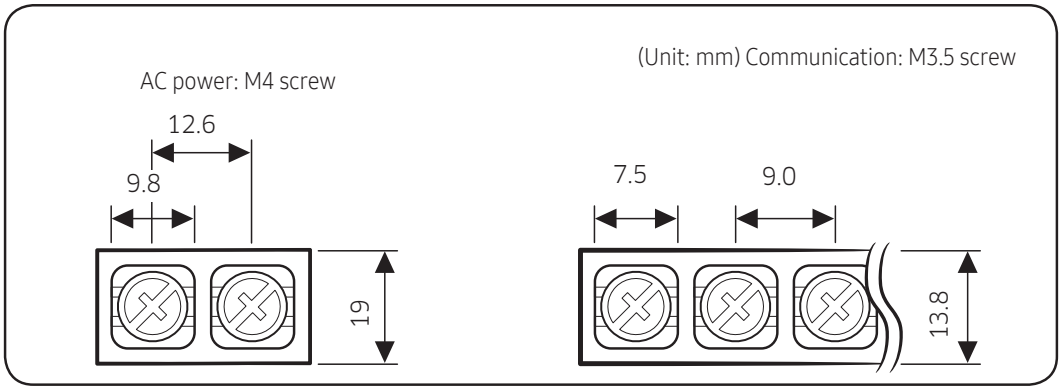


(Wiring terminals) 3 phase (71/100**)**



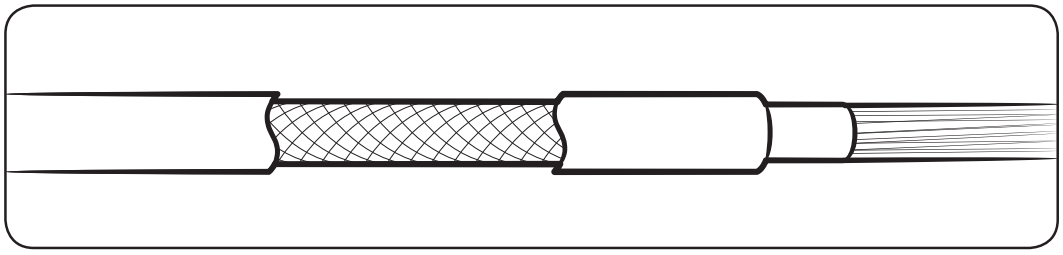
Indoor power supply		
Power supply	Max/ Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5㎟↑, 3wires
Communication cable		
0.75㎟↑, 2wires		

Installation



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

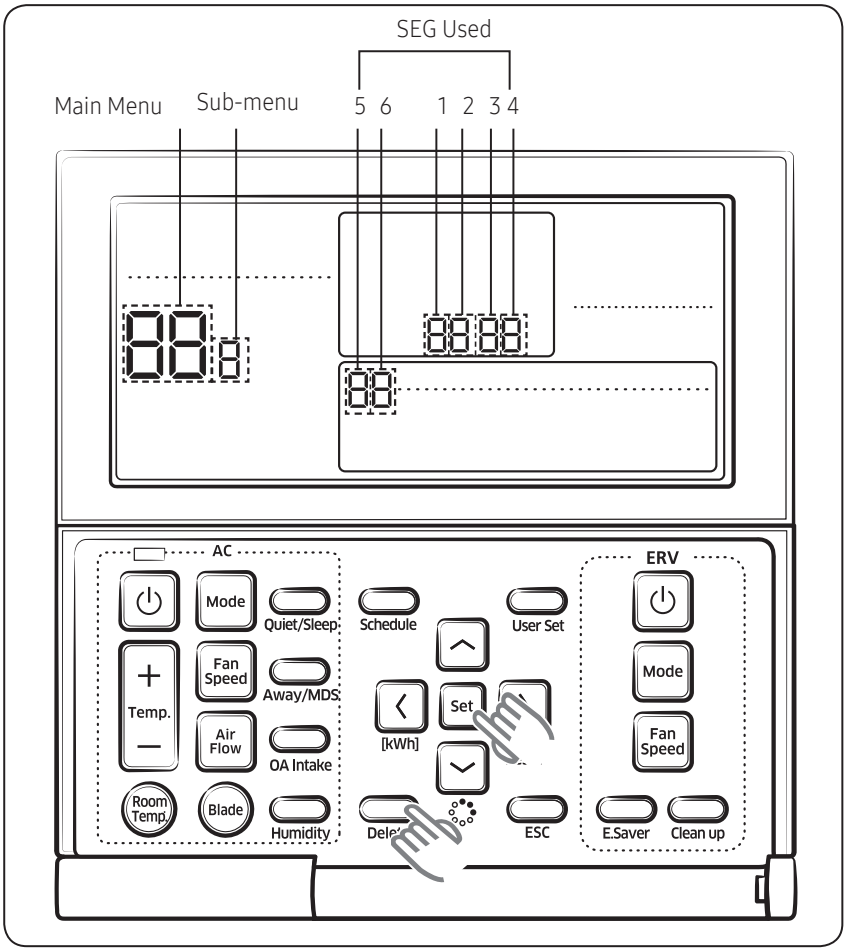
- When installing the indoor unit in a computer room or a server room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R or LiYCY type.

Installation

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 [^] / [v] button to select 8 and then press [>] button to enter a Sub-menu setting screen.

3 Press the [^] / [v] button to select 2 and then press [>] button to enter a automatic air-volume setting screen.

4 Press the [^] / [v] button to select 1 to enable automatic air-volume operation.

5 Select mode No. 8.2 , and set to "1".

6 Press the [Set] button, then the air conditioning unit will start the fan operation for Automatic Air-Volume adjustment.

- Do not adjust the dampers during fan operation for Automatic Air-Volume adjustment.

7 Press [ESC] button to escape setting mode.
(During the automatic air-volume adjustment,[Main Menu] will be displayed → → → repetitively)

8 After 1 to 8 minutes, the air conditioning unit stops operating automatically when Automatic Air-Volume adjustment has been carried out (fan operation icon will be off.)

9 When the air conditioning unit has stopped, check the Mode No. 8.1 is "1" for completion of Automatic Air-Volume. If the Mode No. 8.1 is "0", Automatic Air-Volume adjustment is fail. Then adjust the fan speed by referring the E. S. P(External Static Pressure) setting table.

Main menu	Sub menu	Functions	SEG used	Default	Range
8	1	Automatic Air-Volume State Return	1	0	0 - OFF (Fail or Disable) 1 -Completion. 2 - Running Automatic Air-Volume.
	2	Automatic Air-Volume Operation	1	0	0 - Disable 1 - Enable

NOTE

- f 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.

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	AC035BNMPKG
Static Pressure	Option Code for Indoor Unit
0≤ SP ≤2.5	01B36C-1C5080-272328-370000
2.5< SP ≤5	01B36C-1C5407-272328-370000
5< SP ≤7.5	01B36C-1C548C-272328-370000
7.5< SP ≤10	01B36C-1C55D3-272328-370000
10< SP ≤12.5	01B36C-1C5926-272328-370000
12.5< SP ≤15	01B36C-1C5998-272328-370000

Installation

Model	AC052BNMPKG	AC071BNMPKG
Static Pressure	Option Code for Indoor Unit	
0≤ SP ≤3	01B36C-1C5401-27343C-370000	01B36C-1C50E1-274750-370020
3< SP ≤6	01B36C-1C5486-27343C-370000	01B36C-1C5465-274750-370020
6< SP ≤9	01B36C-1C54EB-27343C-370000	01B36C-1C54D9-274750-370020
9< SP ≤12	01B36C-1C584F-27343C-370000	01B36C-1C583D-274750-370020
12< SP ≤15	01B36C-1C5992-27343C-370000	01B36C-1C589F-274750-370020

Model	AC100BNMPKG
Static Pressure	Option Code for Indoor Unit
0≤SP≤4	01B36C-1C50E4-276470-370040
4<SP≤8	01B36C-1C546A-276470-370040
8<SP≤12	01B36C-1C54DE-276470-370040
12<SP≤15	01B36C-1C5913-276470-370040

Model	AC120BNMPKG	AC140BNMPKG
Static Pressure	Option Code for Indoor Unit	
0≤SP≤5.2	01B36C-1C5423-277882-370040	01B36C-1C5423-278CA0-370040
5.2<SP≤8	01B36C-1C5478-277882-370040	01B36C-1C5478-278CA0-370040
8<SP≤12	01B36C-1C54EB-277882-370040	01B36C-1C54EB-278CA0-370040
12<SP≤15	01B36C-1C582F-277882-370040	01B36C-1C582F-278CA0-370040

Installation

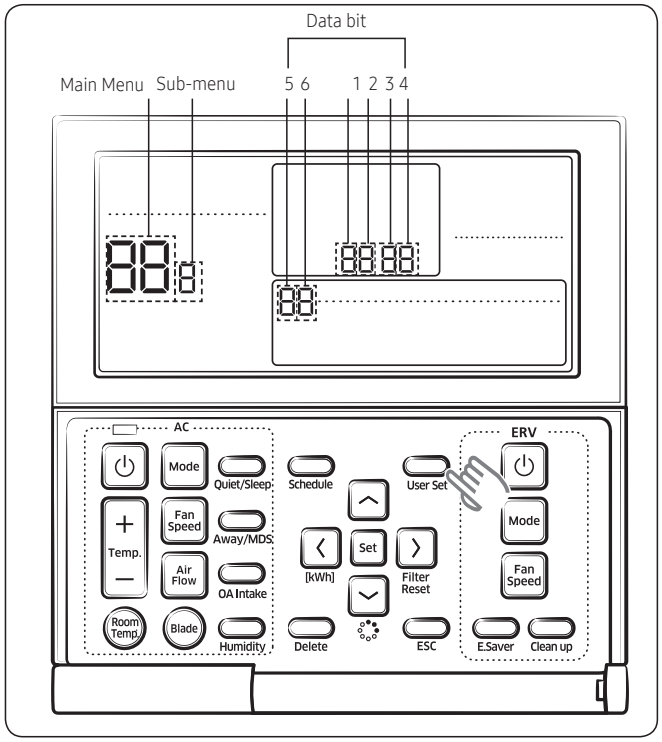
NOTE

- 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.

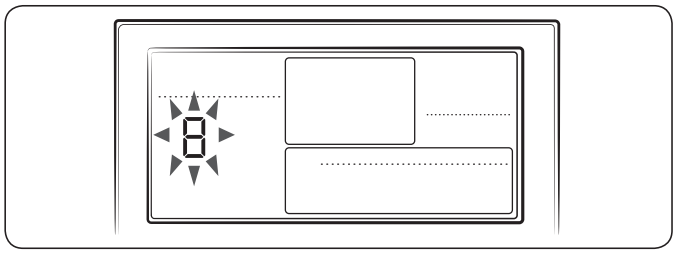
EASY Tuning

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.

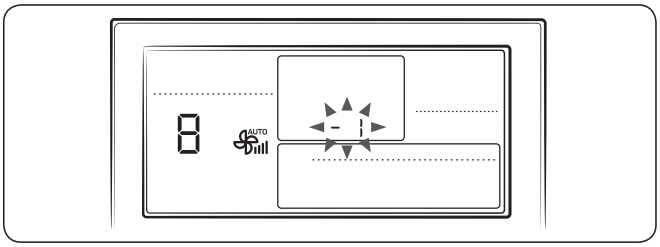


Installation

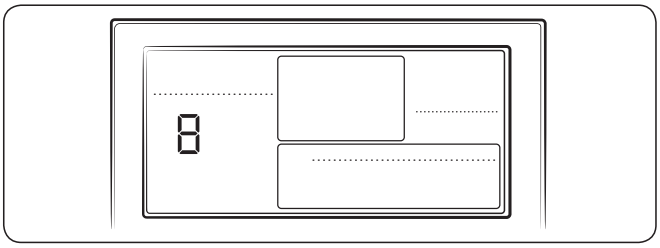
1 Press the User Set button.
(Main Menu) will be displayed, and you can press the [∧]/[∨] buttons to select No. 8, which will set the Easy Tuning.



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.

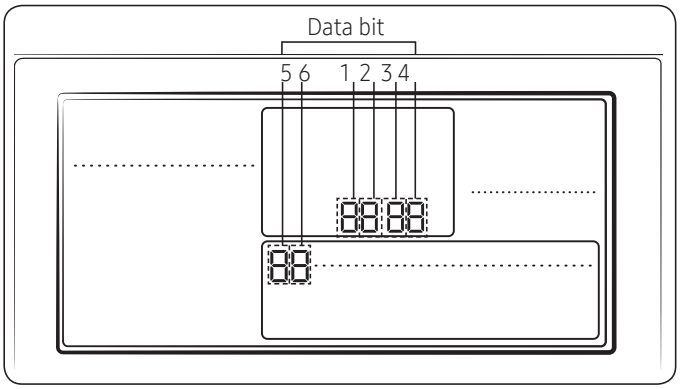
Installation

Setting indoor unit addresses

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 Main 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 without setting.
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.

Installation

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	Use of Heater	Controller variables for auxiliary heater	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	-

Installation

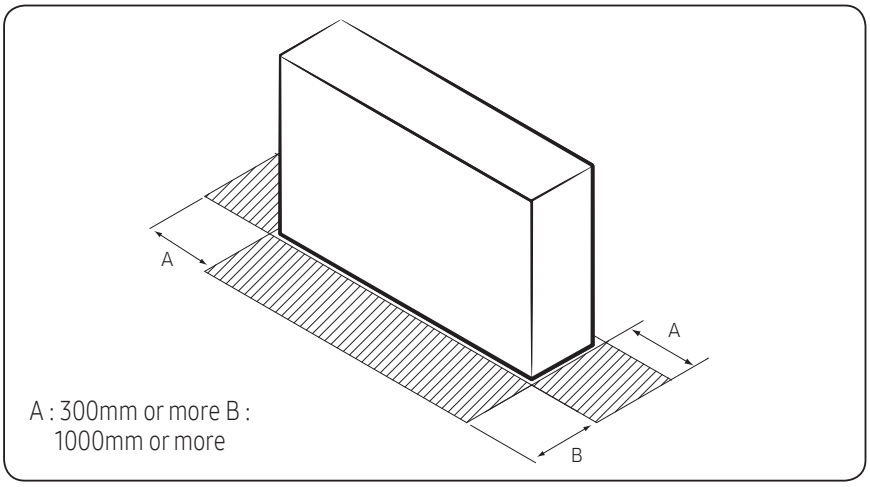
5. Console

Indoor unit installation requirement

- This unit has to be installed as floor type only.
- There must be no obstacles near the air inlet and outlet.
- Select a convenient location that permits the air to reach every corner of the area to be cooled.
- Pre-plan for easy and short routing of the refrigerant tubing and wiring to the outdoor unit.
- There should be no flammable gas, alkaline, substances present in the air.
- Maintain sufficient clearance around the indoor unit.
- Make sure that the water dripping from the drain hose runs away correctly and safely.
- Do not install the unit where it will be exposed to direct sunlight

⚠ CAUTION

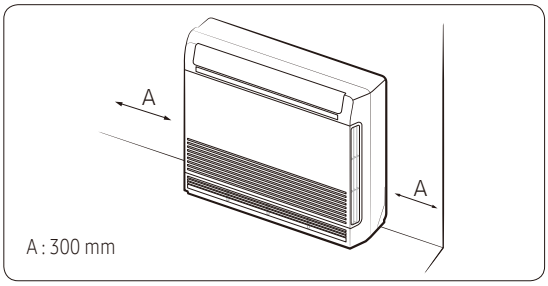
- Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
- 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.



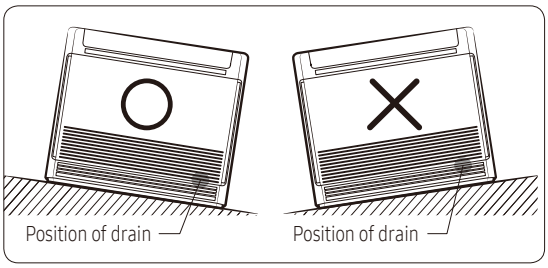
Installation

Installing the unit

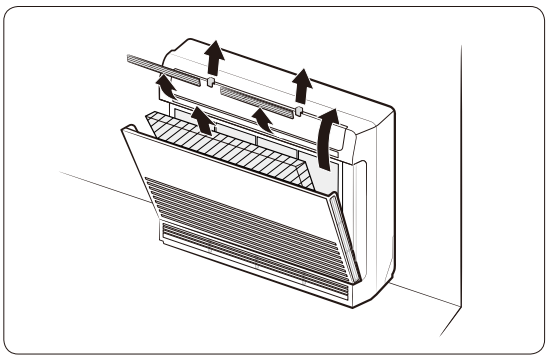
1 When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.



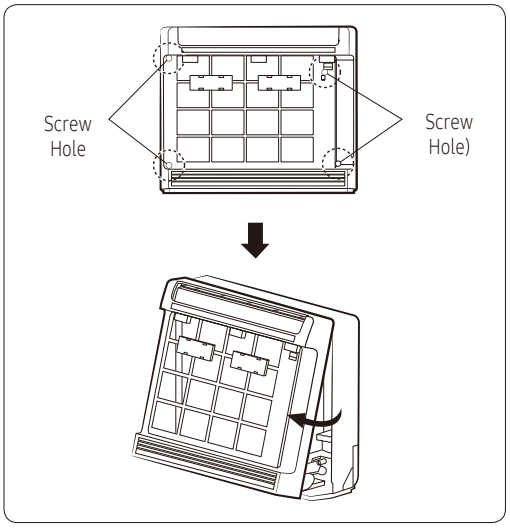
2 When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.



3 Please remove packaging materials when installing the unit.
(**026/35******: 6 Items / **052******: 7 Items)

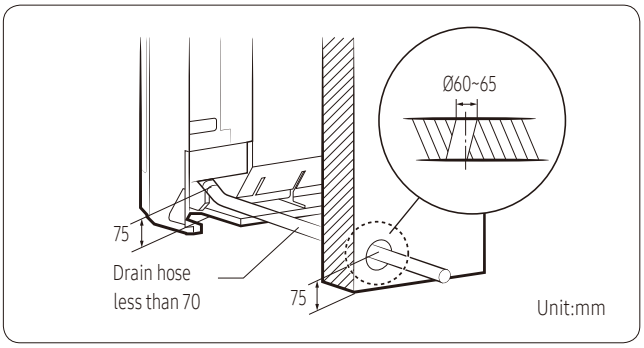


4 The body front should be opened to connect pipes.Remove the 4 screws on the front of the unit and then pull the lower section of the unit out as shown below.

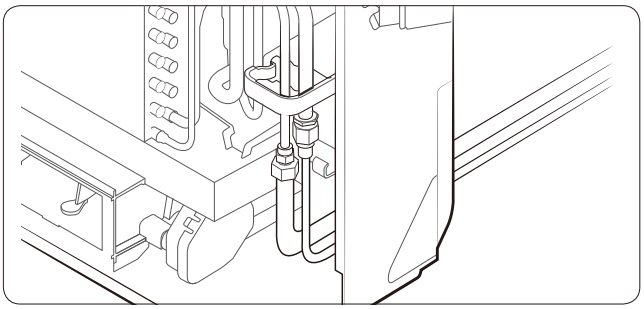


Installation

5 Make a hole in the wall.

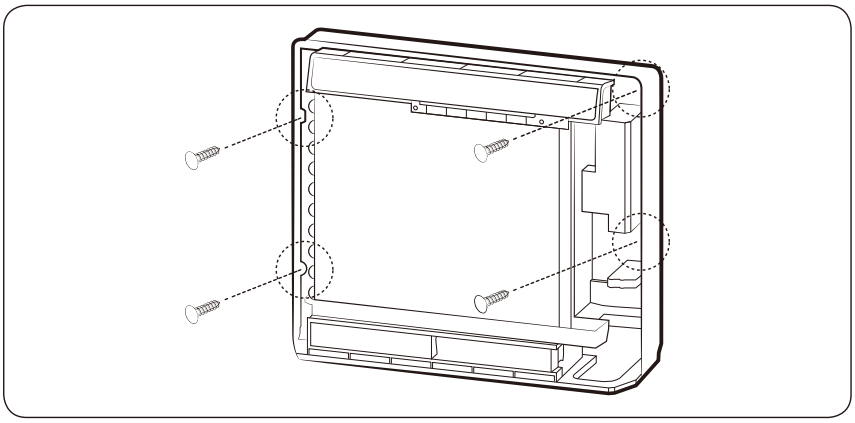


6 Refrigerant and drain pipes and cables should go through the hole located at the on the back of the unit at the bottom.



7 Hanging the indoor unit on the Bracket Hanger, then fix the Indoor Unit by using 4 Screws.

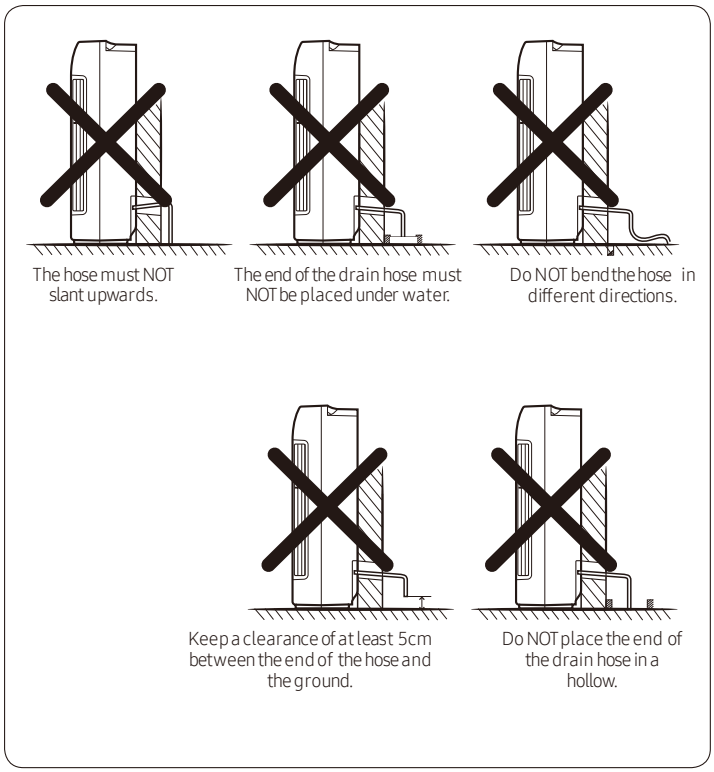
- Case 1. Installing on the floor: You must secure the unit to the wall using 4 screws to ensure that the unit does not fall.
- Case 2. Hanging on the wall : Follow the installation guide supplied in the accessory part.
  - Screw positions are specified on the installation guide.



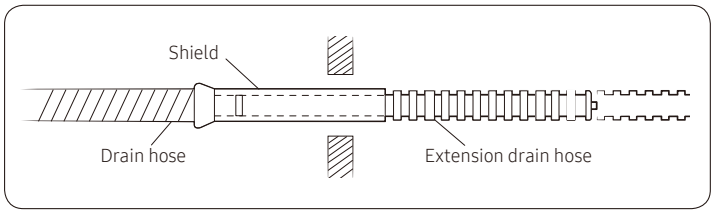
Installation

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 65mm hole drilled in the wall, check the following:



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



2 If you use the extension drain hose, insulate the outside of the extension drain hose with a insulation.

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

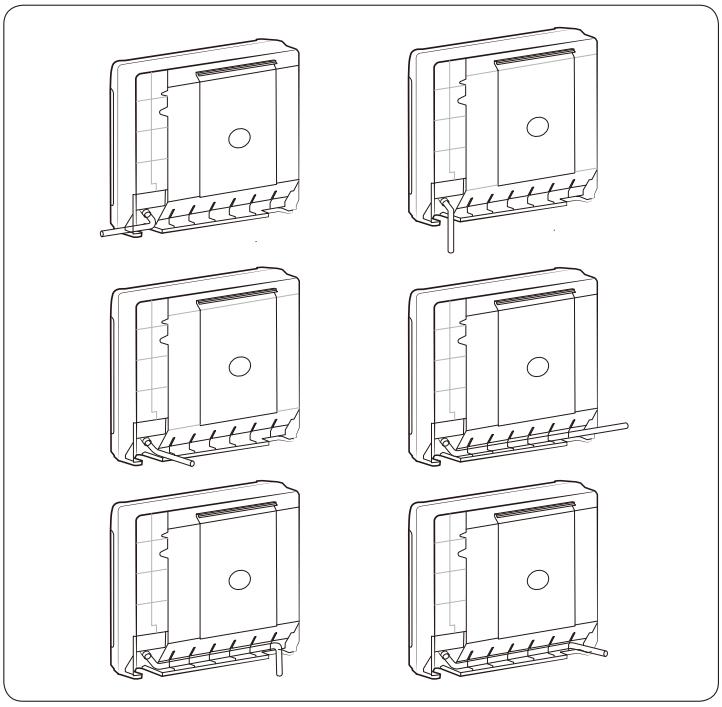
- If you don't use the other drain hose hole, block it with a rubber stopper.

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

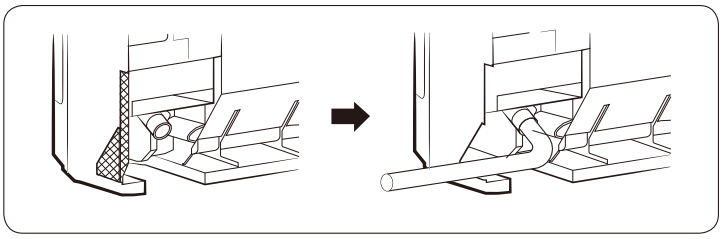
5 Pass the drain hose through the hole in the wall. Verify that it slants downwards.

Installation

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

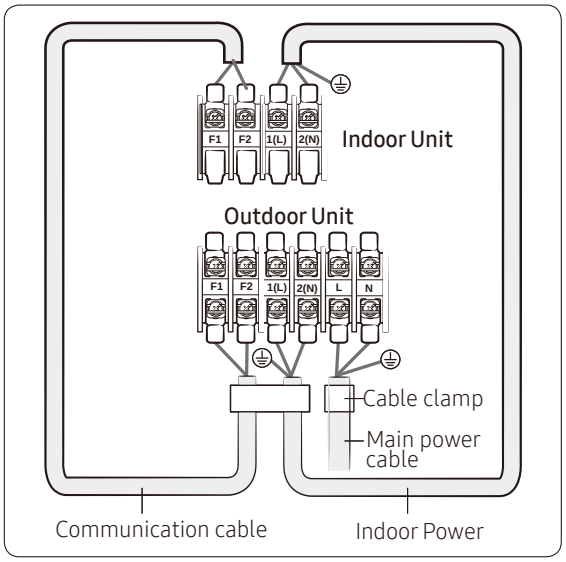
- Always remember to connect the air conditioner to the grounding system before performing the electric connections.
  Use a crimp ring terminal at the end of each wire.

The indoor unit is powered through the outdoor unit by means of a H07RN-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.

Installation

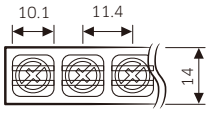
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
4 Reassemble the electrical component box cover, carefully tightening the screw.



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

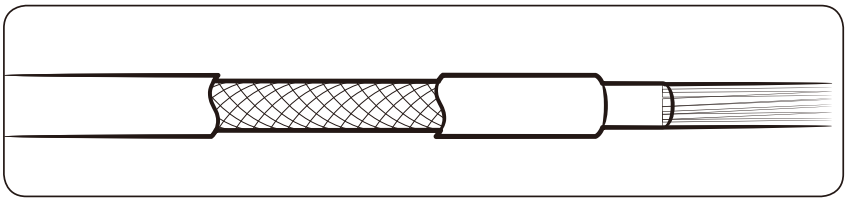
(Unit: mm)

AC power,Communication: M4 screw



Tightening torque (kgf • cm)	
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)
- 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.

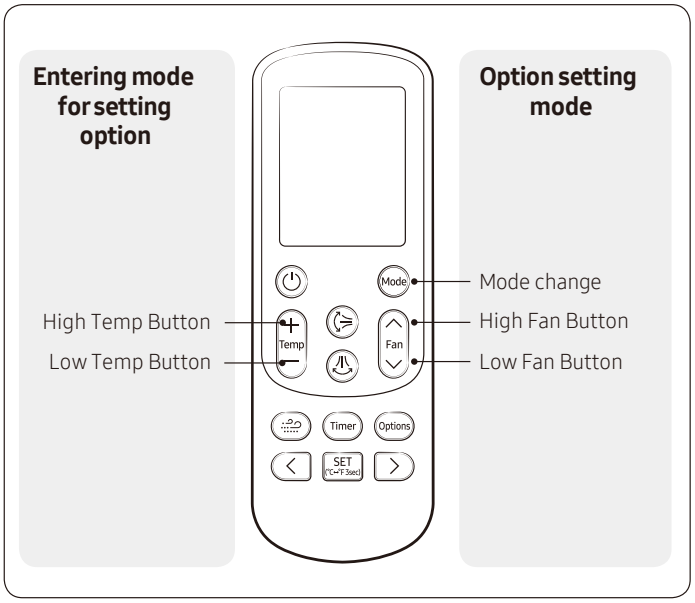


⚠ CAUTION

- 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.

Installation

Common steps for setting the addresses and options



NOTE

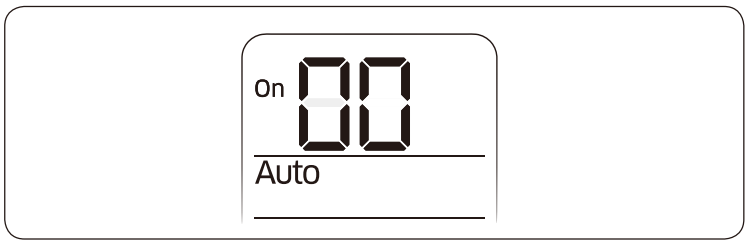
- The remote control display and buttons may vary depending on the model.

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 (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

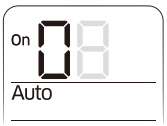
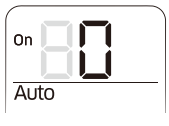
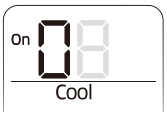
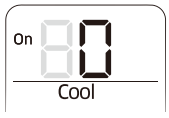
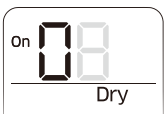
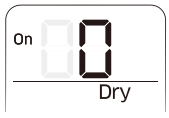
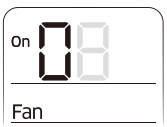
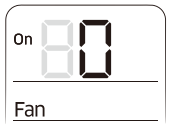
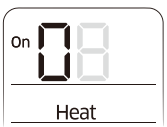
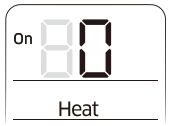
Installation

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

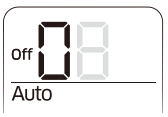
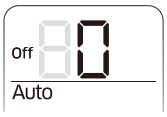
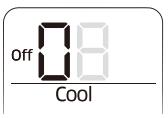
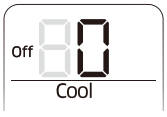
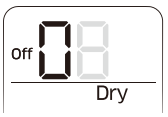
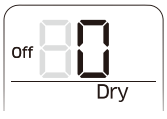
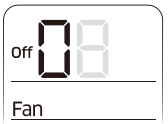
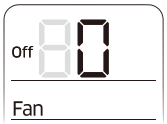
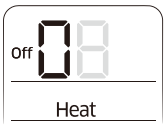
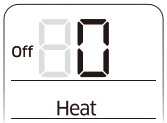
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

Installation

Take the steps presented in the following table:

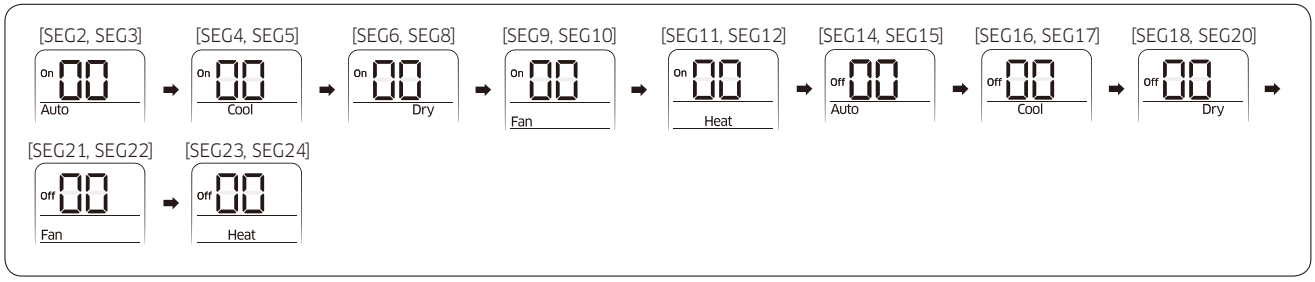
<table>
<tr><th>Option setting</th><th colspan="2">Status</th></tr>
<tr><td rowspan="2">1 Setting SEG2, SEG3 option
Press Low Fan button to enter SEG2 value.
Press High Fan button to enter SEG3 value.
Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.</td><td>  </td><td>  </td></tr>
<tr><td>SEG2</td><td>SEG3</td></tr>
<tr><td>2 Setting Cool mode
Press Mode button to be changed to Cool mode in the ON status.</td><td colspan="2">  </td></tr>
<tr><td rowspan="2">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.</td><td>  </td><td>  </td></tr>
<tr><td>SEG4</td><td>SEG5</td></tr>
<tr><td>4 Setting Dry mode
Press Mode button to be changed to Dry mode in the ON status.</td><td colspan="2">  </td></tr>
<tr><td rowspan="2">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.</td><td>  </td><td>  </td></tr>
<tr><td>SEG6</td><td>SEG8</td></tr>
<tr><td>6 Setting Fan mode
Press Mode button to be changed to Fan mode in the ON status.</td><td colspan="2">  </td></tr>
<tr><td rowspan="2">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.</td><td>  </td><td>  </td></tr>
<tr><td>SEG9</td><td>SEG10</td></tr>
<tr><td>8 Setting Heat mode
Press Mode button to be changed to Heat mode in the ON status.</td><td colspan="2">  </td></tr>
<tr><td rowspan="2">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.</td><td>  </td><td>  </td></tr>
<tr><td>SEG11</td><td>SEG12</td></tr>
</table>

Installation

Option setting	Status	
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
18 Setting **Heat** mode Press **Mode** button to be changed to **Heat** mode in the OFF status.		
19 Setting SEG23, SEG24 option 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

Installation

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 or outdoor unit.

- Indoor unit : Press the SET (°C↔°F 3sec) (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 button on the remote control.

Installation

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 on page 20.**

- 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

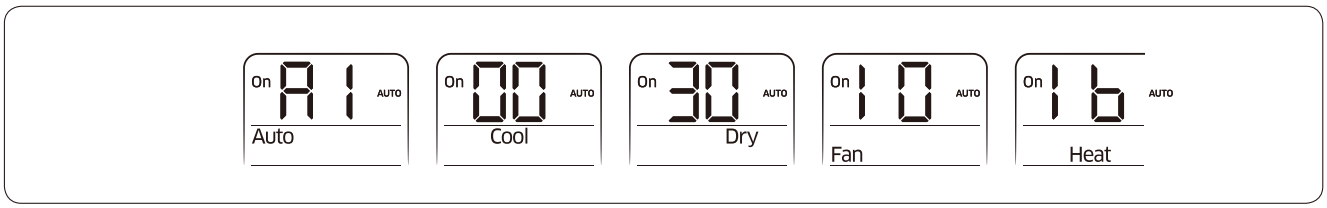
- The main address must be set to a value in the range 0 to 15. If you set other values, communication error will occur.
- If any of SEG5 and SEG6 is set to a value in the range A to F, the main address of the indoor unit does not change.
- If SEG3 is set to 0, the indoor unit maintains the existing 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

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

Installation 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 on page 20**.

- The installation options of indoor units are set to 020010-100000-200000-300000 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			Use of external room temperature sensor / Minimizing fan operation when thermostat is off [1]			Central control		
Indication and details	Indication	Details	Indication	Details	Reserved	Indication	Details		Indication	Details	Reserved
							Use of external room temperature sensor	Minimizing fan operation when thermostat is off [1]			
	0		2			0	Disuse	Disuse	0	Disuse	
						1	Use	Disuse			
						2	Disuse	Use(Heating)			
						3	Use	Use(Heating)			
						4	Disuse	Use(Cooling)			
						5	Use	Use(Cooling)	1	Use	
						6	Disuse	Use (Cooling/Heating)			
						7	Use	Use (Cooling/Heating)			
						8	Disuse	Use (Cooling Ultra low speed)			
						9	Use	Use (Cooling Ultra low speed)			
						A	Disuse	Use (Heating/Cooling Ultra low speed)			
						B	Use	Use (Heating/Cooling Ultra low speed)			

Installation

Option	SEG7		SEG8 [2]		SEG9	SEG10	SEG11	SEG12
Function	Page		Use of drain pump		Reserved	Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details				
	1		0	Disuse				
			8	Use external drain pump				

Option	SEG13		SEG14			SEG15		SEG16	SEG17		SEG18	
Function	Page		Use of external control			Setting the output of external control [3]		Reserved	Buzzer control		Maximum filter usage time [4]	
Indication and details	Indication	Details	Indication	Details		Indication	Details		Indication	Details	Indication	Details
	2		0	Disuse	Sub, Existing control	0	Thermo on		0	Use of buzzer	2	1000 hours
			1	On/Off								
			2	Off								
			3	Window On/Off								
			4	Disuse	Main, Existing control							
			5	On/Off								
			6	Off								
			7	Window On/Off								
			8	Disuse	Sub, Reverse control	1	Operation On		1	Disuse of buzzer	6	2000 hours
			9	On/Off								
			A	Off								
			B	Window On/Off								
			C	Disuse	Main, Reverse control							
			D	On/Off								
			E	Off								
			F	Window On/Off								

Option	SEG19		SEG20		SEG21		SEG22	SEG23	SEG24
Function	Page		Individual control with remote control [5]		Heating setting compensation [6]		Reserved	Reserved	Reserved
Indication and details	Indication	Details	Indication	Details	Indication	Details			
	3		0 or1	Indoor1	0	Default			
			2	Indoor2	1	2˚C			
			3	Indoor3	2	5˚C			
			4	Indoor4					

• 1) SEG4

By SEG4 setting, Minimizing fan operation when thermostat is off.

- Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
- Fan stops or operates Ultra low in Cooling when thermostat is off.

•) SEG8

For information on how to connect the external float switch, refer to STEP14 of this manual.

•) SEG15

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

• 4) SEG18

If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).

•) SEG20

If you set the Individual control with remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor1)

•) SEG21

Default value of Heating setting compensation is 9°F (5°C).

Installation

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.

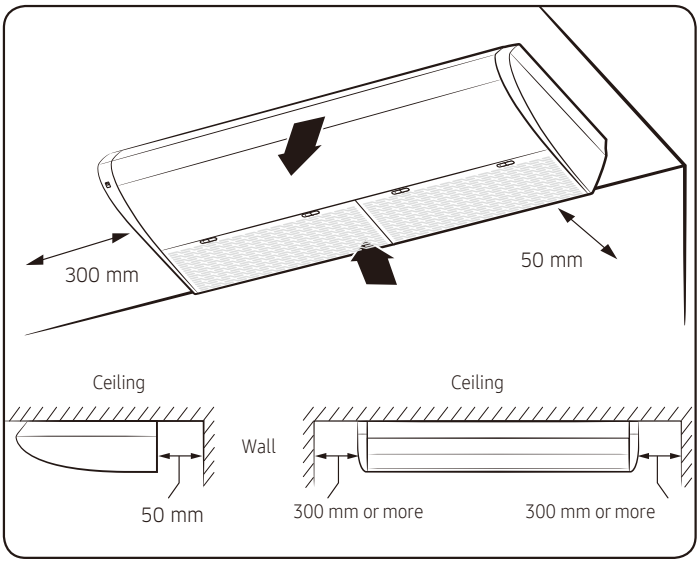
Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

Installation

6. Ceiling

Spacing requirements

Ceiling installation



Installing the indoor unit

Ceiling installation

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

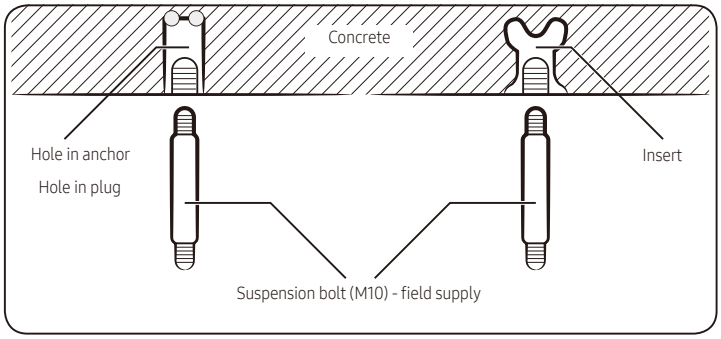
- Use the pattern sheet to select pipe directions.

2 Drill holes for anchor bolts according to the distance and mount them.

NOTE

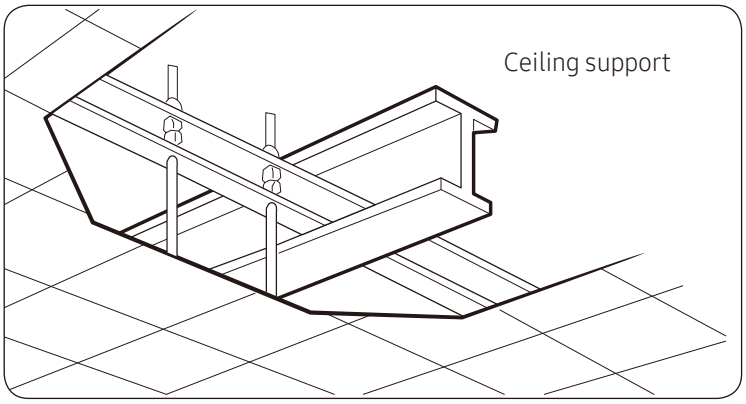
- Use the pattern sheet.

3 Insert bolt anchors. Use existing ceiling supports or construct a suitable support as shown in figure



Installation

4 Install the suspension bolts, depending on the ceiling type.



CAUTION

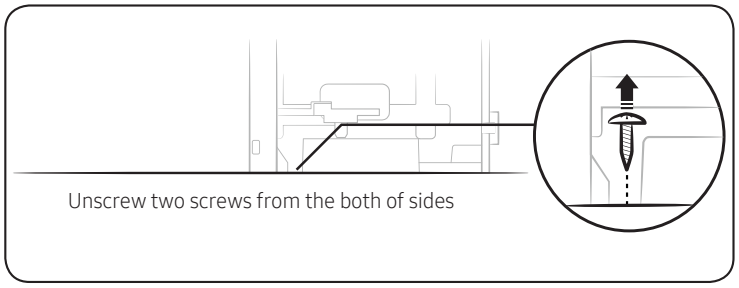
- Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- If the length of suspension bolt is more than 1.5m,
  it is required to prevent vibration.
- If this is not possible, create an opening on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

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

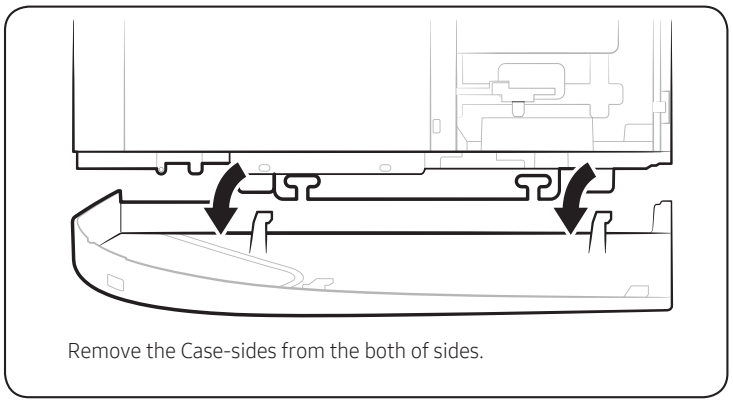
NOTE

- You must install all the suspension rods.

6 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.

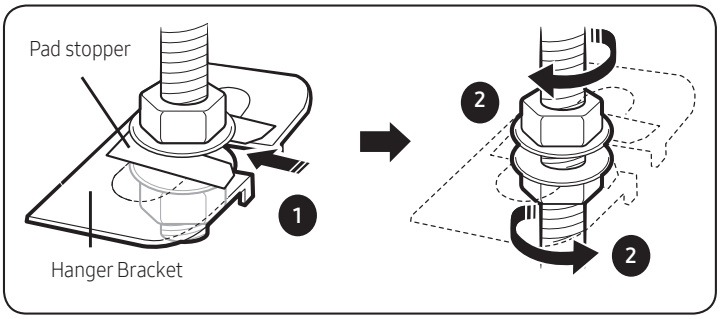

Unscrew two screws from the both of sides

7 Reassemble the Case-sides, tightening the screws after


Remove the Case-sides from the both of sides.

Installation

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



⚠ CAUTION

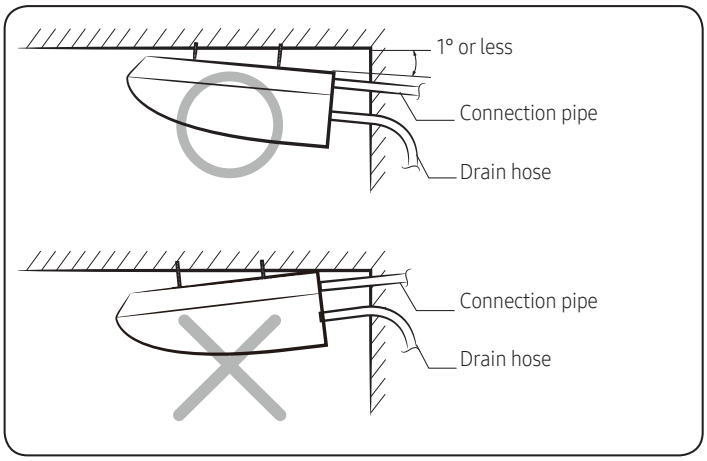
- Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

9 Screw the nuts to suspend the unit.

10 Adjust level of the unit by using measurement plate for all 4 sides.

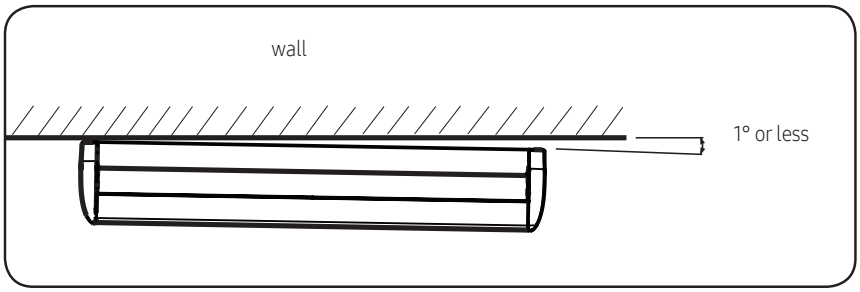
NOTE

- For proper drainage of condensate, give a 1° or less slant to the side of the unit which will be connected with the drain hose as shown in the figure. (The gap between the lower end of the indoor unit and the ceiling should be 12 mm or less.)



NOTE

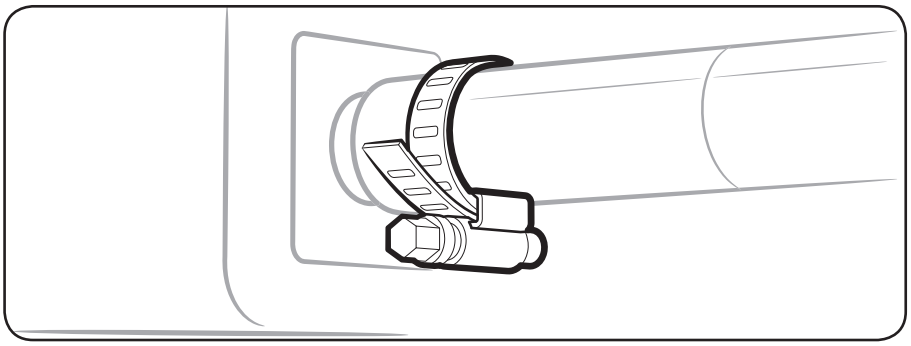
- The gap between the lower end of the indoor unit and the ceiling should be 1˚ (28 mm) or less.



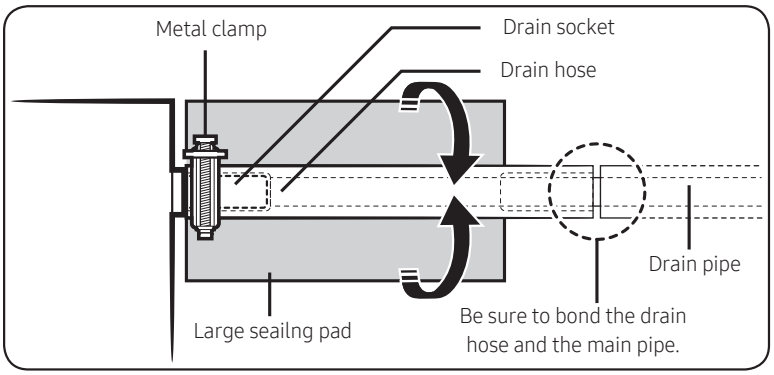
Installation

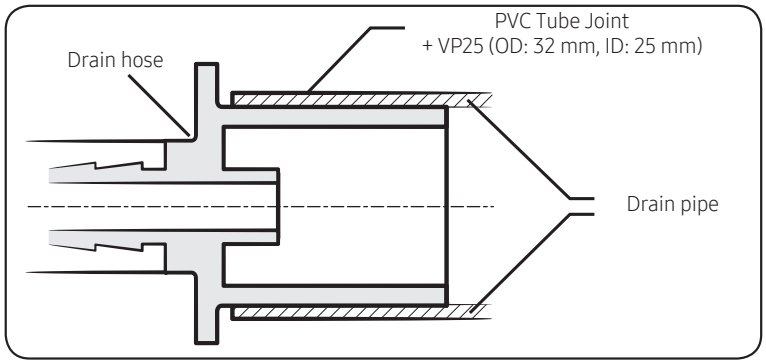
Installing the drain hose and drain pipe

1 Push the supplied drain hose as far as possible over the drain socket.
2 Tighten the metal clamp as shown in the picture.



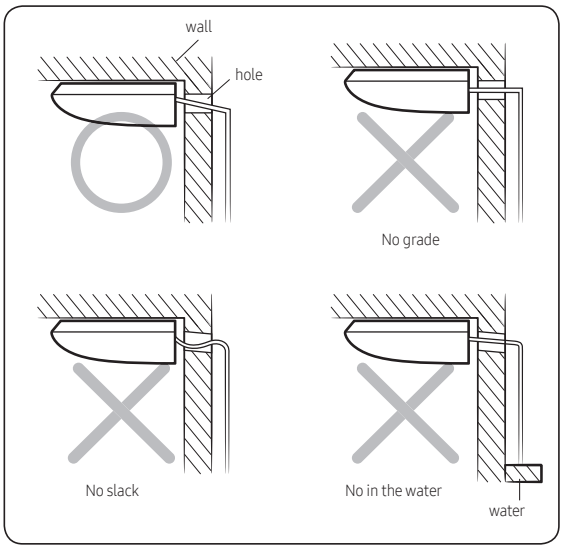
3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
4 Insulate the complete drain piping inside the building (field supply). If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
5 Push the drain hose up to insulation when connecting the drain hose to drain socket.





Installation

When passing the drain hose through the hole drilled in the wall, check that none of the following situations occur:



Connecting the power and communication cables

⚠ CAUTION

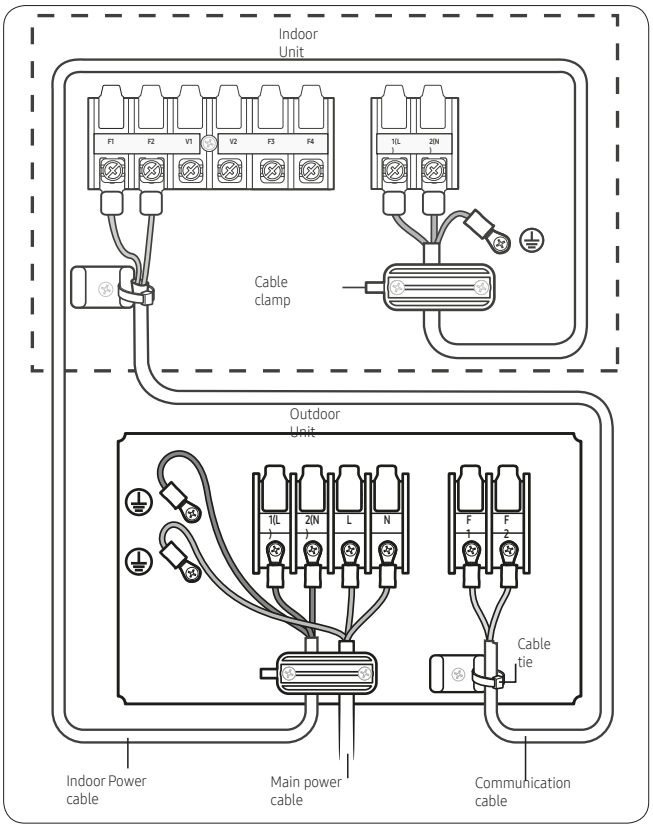
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

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.

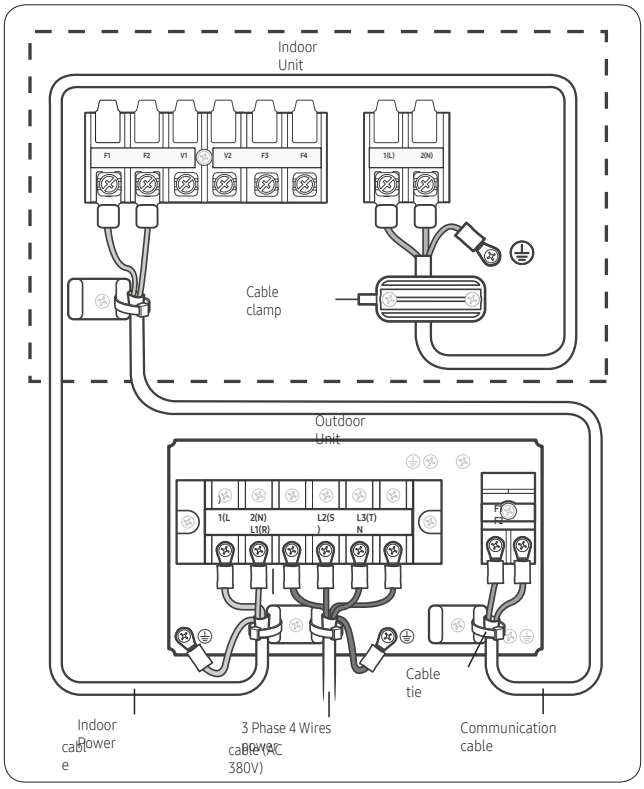
1 Remove the screw on the electrical component box and remove the cover plate.
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the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

Installation

Wiring terminals) 1 phase

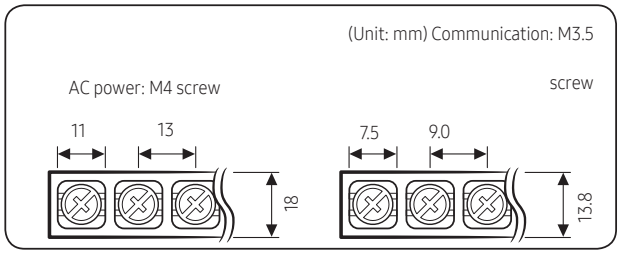


Wiring terminals) 3 phase



Installation

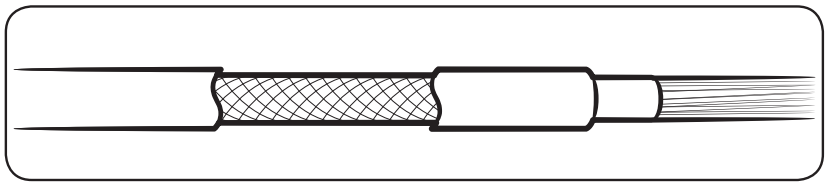
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	1.5 mm² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm², 2 wires		



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

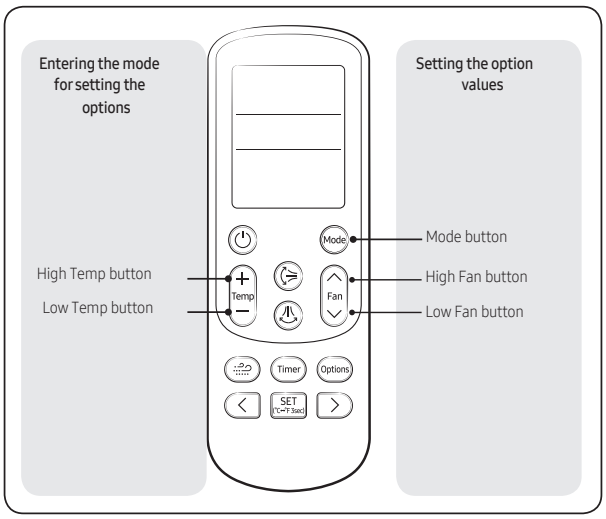
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

Installation

Setting the indoor unit addresses and the 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



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, 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:

CAUTION

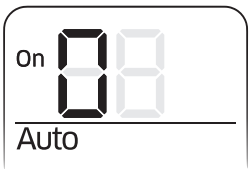
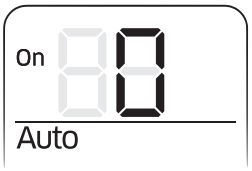
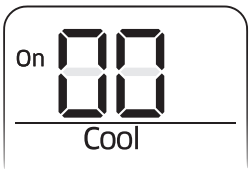
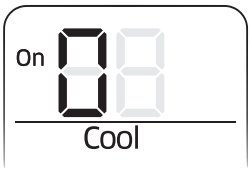
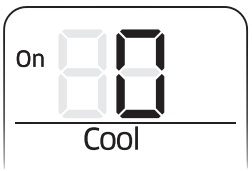
- The total number of available options are 24: SEG1 to SEG24.
- Because SEG1, SEG7, SEG13, and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order: 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

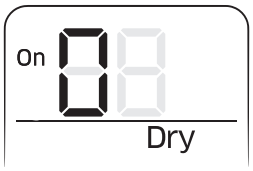
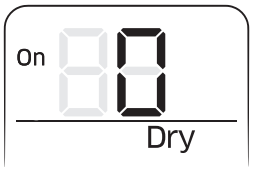
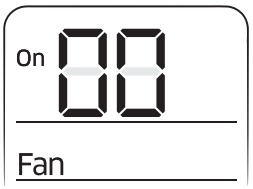
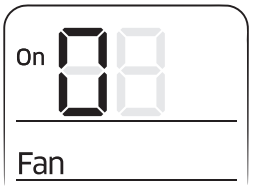
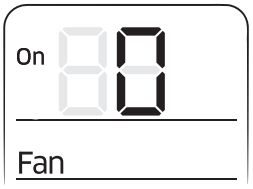
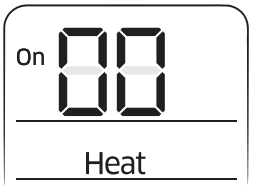
On (SEG1 to SEG12)	Off (SEG13 to SEG24)
	

Installation

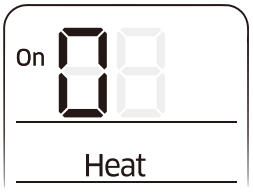
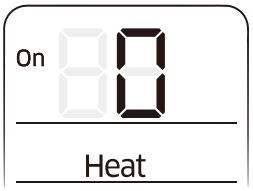
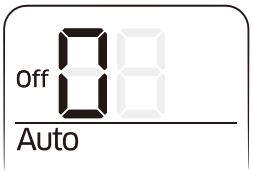
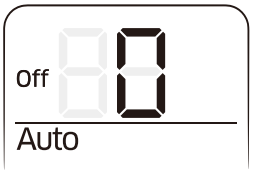
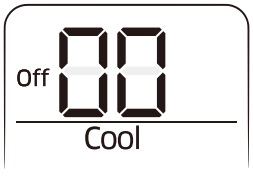
Take the steps presented in the following table:

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
4 Press the Mode (Mode) button. Dry and On appear on the remote control display.	

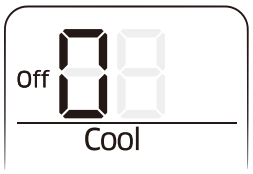
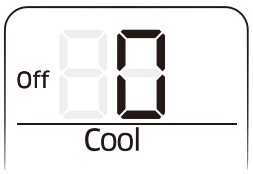
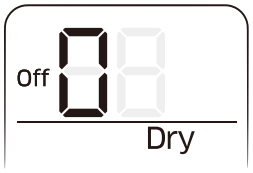
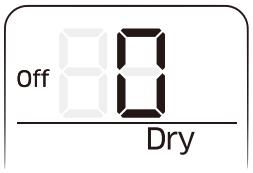
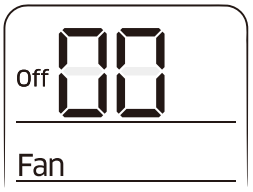
Installation

Steps	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.	 SEG6
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	 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.	 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. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 SEG10
8 Press the Mode (Mode) button. Heat and On appear on the remote control display .	

Installation

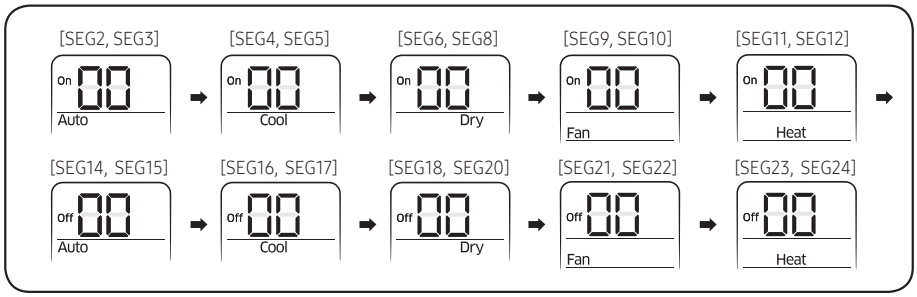
Steps	Remote control display
9 Set the SEG11 and SEG12 values: **a** Set the SEG11 value by pressing the Fan (Low Fan) button repeatedly until the value you want to set appears on the remote control display.	 SEG11
b Set the SEG12 value by pressing the Fan (High Fan) button repeatedly until the value you want to set appears on the remote control display. When you press the Fan (Low Fan) or Fan (High Fan) button, values appear in the following order: 0 → 1 → ··· E → F	 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
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.	

Installation

Steps	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.	 SEG16
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	 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.	 SEG18
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	 SEG20
16 Press the Mode (Mode) button. Fan and Off appear on the remote control display.	

Installation

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

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, 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.

Installation

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	Sub (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	Main (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.

Installation

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 “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
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	-	0	-	0	6
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	0	0	-	-	-

assign option codes except SEG 1, 7,13,19 which are page options.

Installation

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

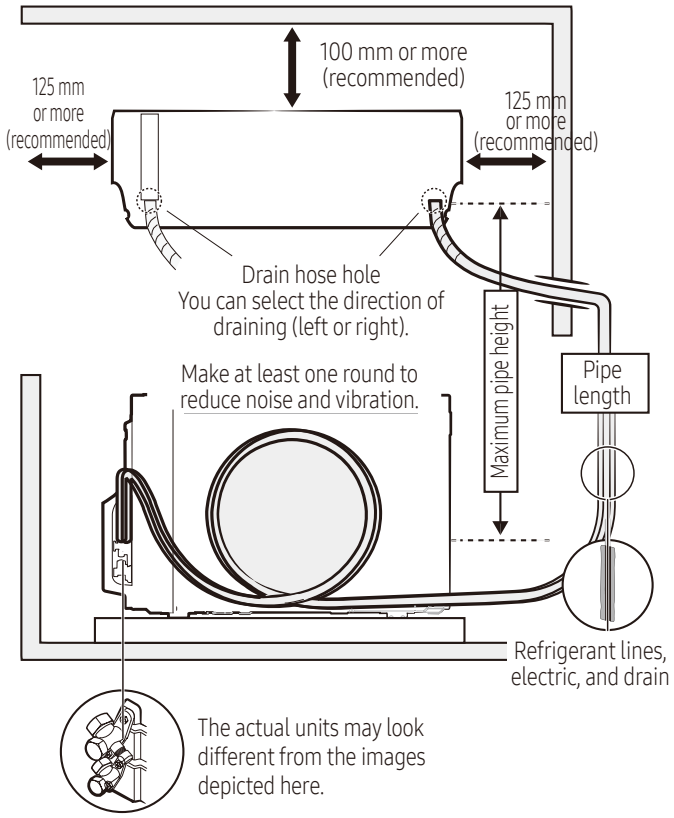
- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'.
  Ex) When setting the 'buzzer control' into disuse status.

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

Installation

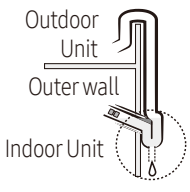
7. Wall mounted Type

Overview of installation location requirements



(Unit: m)

Model	Pipe length		Max. pipe height
m (kg)	Min.	Max.	
AC026/035BNAPKG	5	30	20
AC052BNAPKG	5	50	30
AC071BNAPKG	5	55	30



Cut insulation to have
rainwater drained

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.

CAUTION

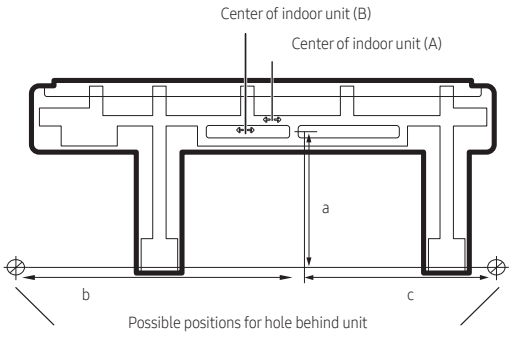
- Comply with the length and height limits described in the figure above.
- For the product that uses the R-32 refrigerant, Install the indoor unit on the wall 1.8 m or higher from the floor.

Installation

Drilling the wall penetration

1 Determine the position of the hole through which the piping bundle (consisting of power and communication cables, refrigerant pipes, and the drain hose) will pass. Consider the following:

- The hole inner diameter must be 65mm.
- The recommended hole location is behind the unit so that the hole and the piping bundle will not be visible in the room. The minimum distances between the hole and the mounting bracket are:

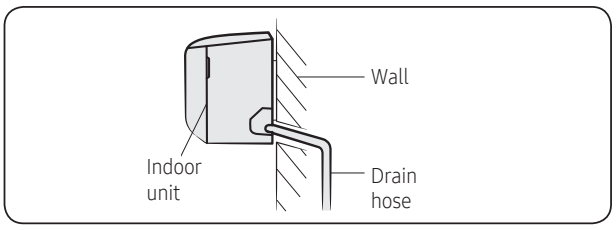


Unit : mm

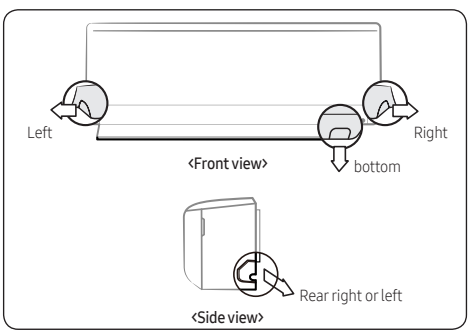
Model		a	b	c
AC026/035BNAPKG	B	165	305	416
AC052/071BNAPKG	A	165	347	608.5

- If the hole cannot be positioned behind the unit, find a position as close to the unit as possible. The piping bundle that exits the unit and extends to the hole will need to be attached to the wall and will be visible inside the room.
- In relation to the bracket shown above, the unit is shipped with the drain hose connection on the right, the drain hose exits the unit on the left, and the refrigerant pipes are bent to exit on the left. Thus, positioning the hole to the left requires the least effort. If you position the hole to the right or below the unit, you will need to move the drain hose connection to the left and bend the pipes so that the hose and pipes exit to the right or bottom. See the figure in Step 7.

2 Use a standard 65mm hole saw to drill one hole at the selected location, at a 15° downward angle so that the drain hose will drain properly.



3 Based on the hole location, determine where the piping bundle (drain hose, refrigerant pipes, and cables) will exit the unit.



Installation

NOTE

- The left, right, or bottom exit will only be used if the hole is not positioned behind the unit.

Connecting the refrigerant pipes

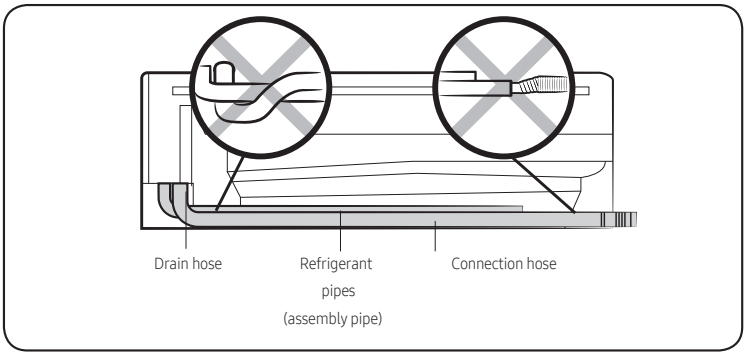
Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

IMPORTANT

- When installing the unit, always connect the refrigerant pipes first, followed by the electrical cables. For disassembly, always disassemble the electric cables before the refrigerant pipes.

Two short refrigerant pipes are already attached to the air conditioner:

- The smaller-diameter pipe is for the high-pressure, two-phase refrigerant.
- The larger-diameter pipe is for the low-pressure refrigerant vapor.



In Step 4 you determined the exit position for the piping bundle. The unit has three knockouts available for the left, right, and bottom exits. When the bundle exits directly from the rear, none of the knockouts are used.

1 If the pipes will exit directly from the rear, skip to step 3. Otherwise, cut out the appropriate knockout piece (left, right, or bottom).

2 Use a razor knife to clean the cut edges (flashing).

3 The left exit is the only position that does not require bending the pipes. For other positions, bend the pipes so that they will exit in the selected exit position.

   – The bending radius should be greater than 100 mm.
   – Bend the smaller pipe gradually to prevent kinking. The larger pipe has a preinstalled spring bender to prevent kinking.
   – Make sure that the pipes do not protrude from the back of the unit in a way that will make it difficult to attach the unit to the mounting bracket.
   – For right and bottom exits, pull the pipes out through the selected knockout opening. For left exits, the piping connections will be made in the service space behind the indoor unit (under the cover panel).

Installation

Connecting the power and communication cables

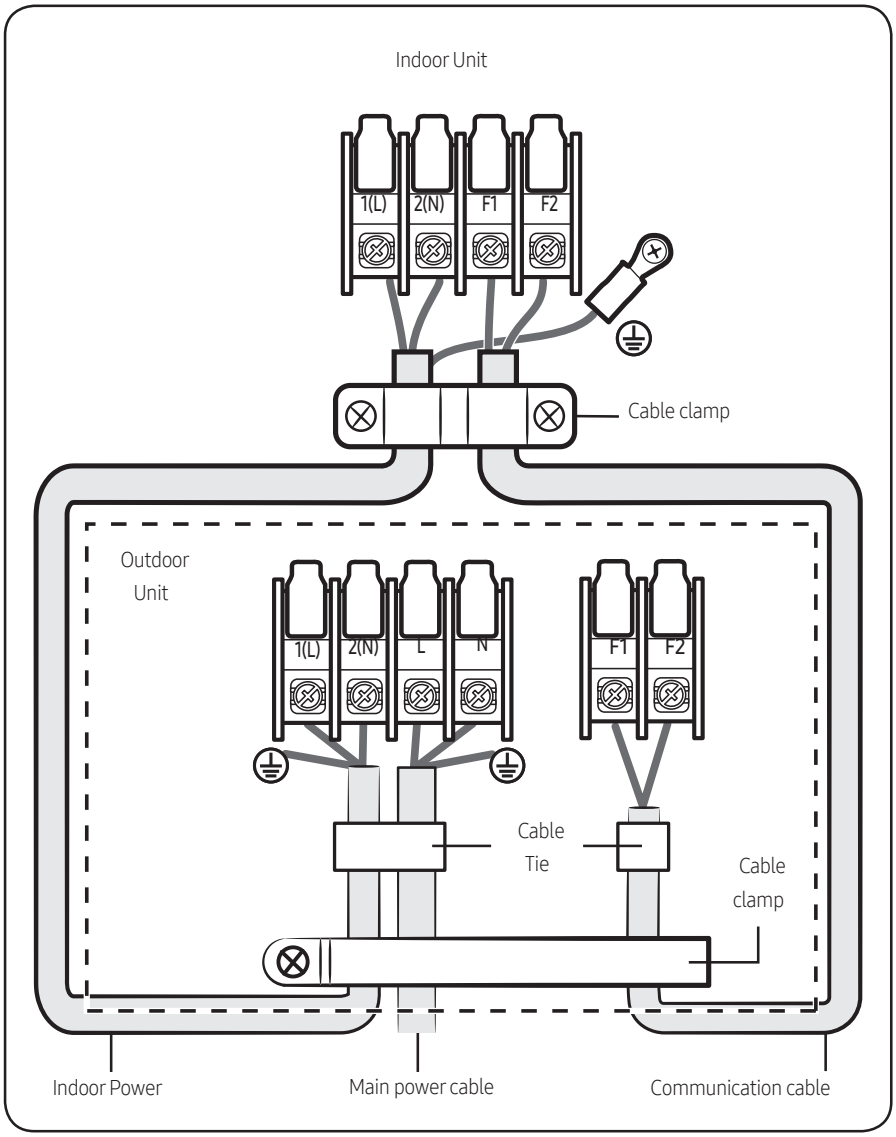
⚠ CAUTION

- 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.
- 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 H05 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.

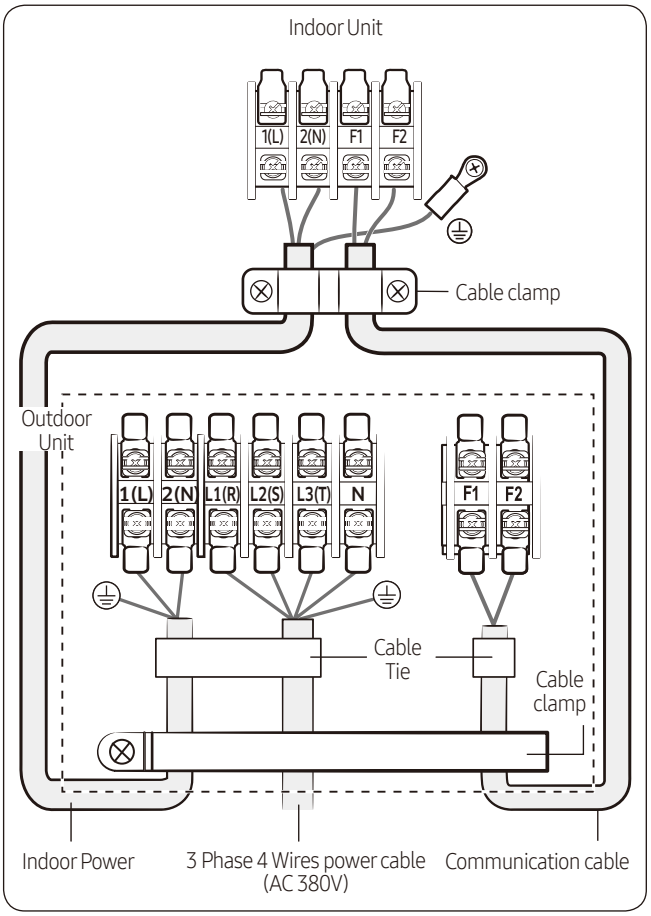
1 Remove the screw on the electrical component box and remove the cover plate.
2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
3 Route the other end of the cable to the outdoor unit through the ceiling & the hole on the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

1 phase



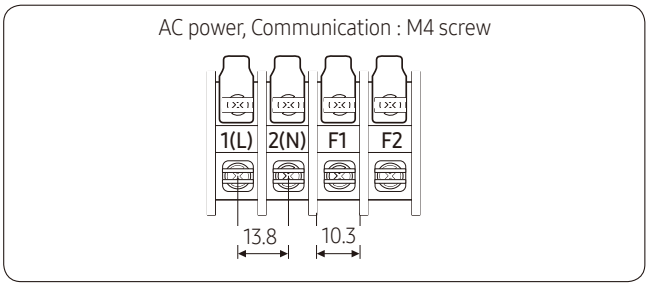
Installation

3 phase



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

Unit: mm



	Tightening torque
	N·m
M3.5	0.8 to 1.2
M4	1.2 to 1.8

(1N·m=10kgf·cm)

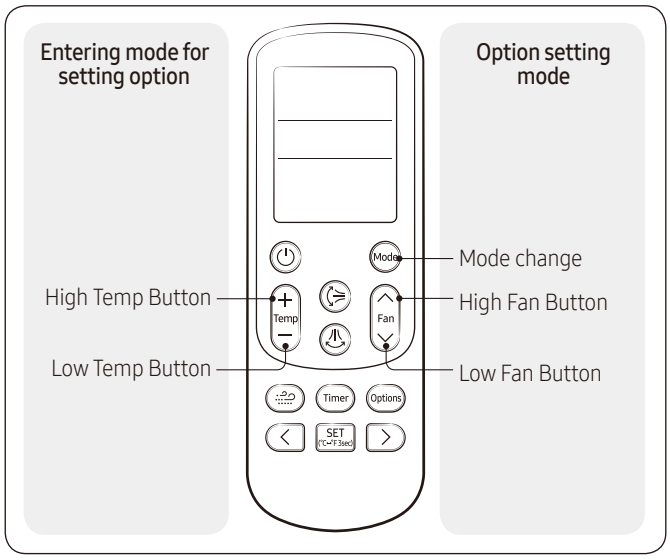
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F)
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.

Installation

Setting the indoor unit addresses and the installation options

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

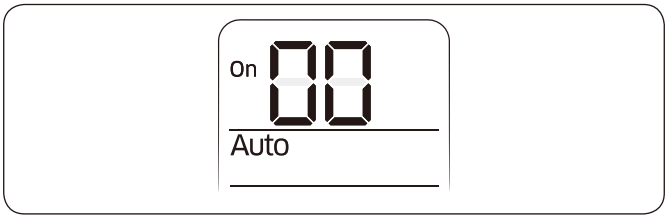
Common steps for setting the addresses and options



- 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.

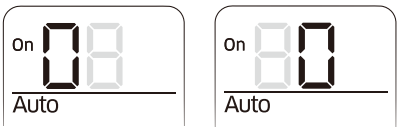
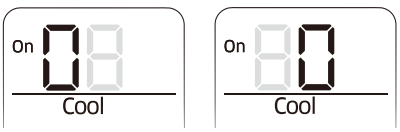
- Set a 2-digit value for each option pair in the following order: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

Installation

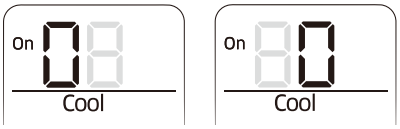
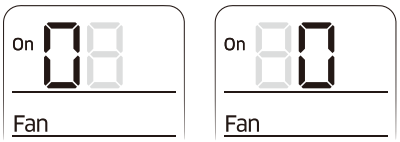
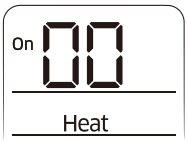
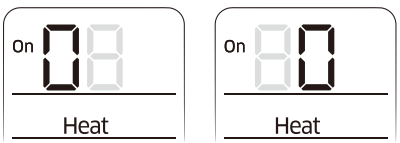
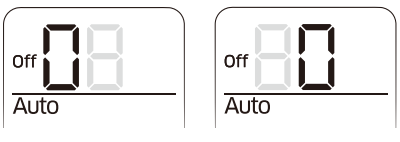
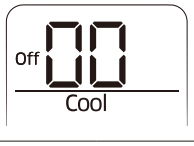
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

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

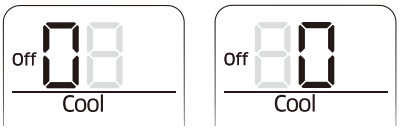
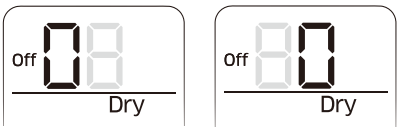
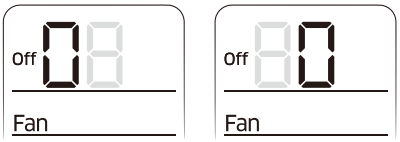
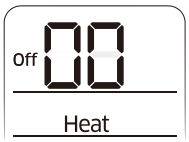
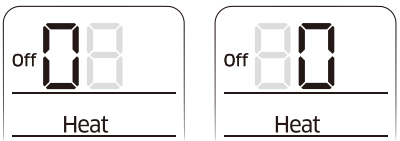
Take the steps presented in the following table:

Option setting	Status
1 Setting SEG2, SEG3 option **a** Press Low Fan button (Fan) to enter SEG2 value. **b** Press High Fan button (Fan) to enter SEG3 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG2 SEG3
2 Setting **Cool** mode (Mode) Press **Mode** button to be changed to **Cool** mode in the ON status.	
3 Setting SEG4, SEG5 option **a** Press Low Fan button (Fan) to enter SEG4 value. **b** Press High Fan button (Fan) 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.	

Installation

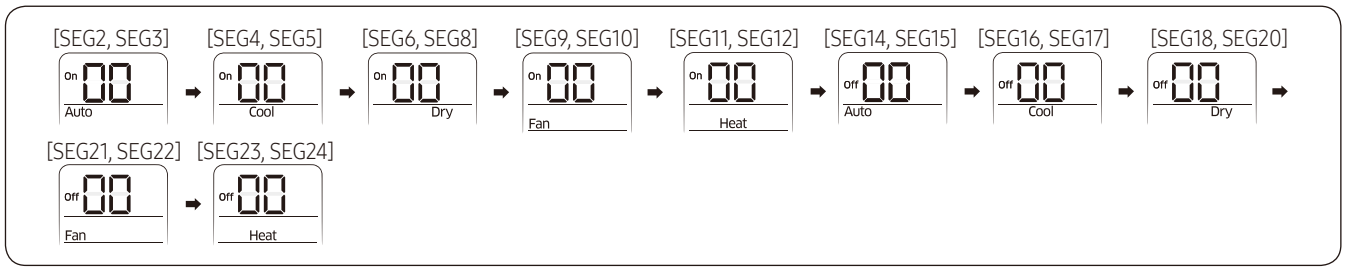
Option setting	Status
5 Setting SEG6, SEG8 option **a** Press Low Fan button (Fan) to enter SEG6 value. **b** Press High Fan button (Fan) to enter SEG8 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG6 SEG8
6 Setting **Fan** mode (Mode) Press **Mode** button to be changed to **Fan** mode in the ON status.	
7 Setting SEG9, SEG10 option **a** Press Low Fan button (Fan) to enter SEG9 value. **b** Press High Fan button (Fan) 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 **a** Press Low Fan button (Fan) to enter SEG11 value. **b** 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 **a** Press Low Fan button (Fan) to enter SEG14 value. **b** 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.	

Installation

Option setting	Status
13 Setting SEG16, SEG17 option **a** Press Low Fan button (Fan) to enter SEG16 value. **b** 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 **a** Press Low Fan button (Fan) to enter SEG18 value. **b** 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.	
17 Setting SEG21, SEG22 option **a** Press Low Fan button (Fan) to enter SEG21 value. **b** 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 **a** Press Low Fan button (Fan) to enter SEG23 value. **b** 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.

Installation



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:

6 Reset the indoor or outdoor unit.

a Indoor unit : Press the SET (°C↔°F 3sec) (Set) and Fan (Low Fan) buttons on the remote control simultaneously for 4 seconds.

b Outdoor unit : Press the K3 button.

7 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

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** on page **17**.

- 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.

<table>
<tr><th>Option</th><th colspan="2">SEG1</th><th colspan="2">SEG2</th><th colspan="2">SEG3</th><th>SEG4</th><th colspan="2">SEG5</th><th colspan="2">SEG6</th></tr>
<tr><td>Function</td><td colspan="2">Page</td><td colspan="2">Mode</td><td colspan="2">Setting main address</td><td rowspan="3">Reserved</td><td colspan="2">Indoor unit number</td><td colspan="2">Indoor unit number</td></tr>
<tr><td rowspan="3">Indication and details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td></tr>
<tr><td rowspan="2">0</td><td rowspan="2">A</td><td>0</td><td>No main address</td><td rowspan="2">0 to 1</td><td rowspan="2">Tens digit</td><td rowspan="2">0 to 9</td><td rowspan="2">Units digit</td></tr>
<tr><td>1</td><td>Main address setting mode</td></tr>
<tr><th>Option</th><th colspan="2">SEG7</th><th colspan="2">SEG8</th><th colspan="2">SEG9</th><th>SEG10</th><th colspan="2">SEG11</th><th colspan="2">SEG12</th></tr>
<tr><td>Function</td><td colspan="2">Page</td><td colspan="2" rowspan="3">Reserved</td><td colspan="2">Setting RMC address</td><td rowspan="3">Reserved</td><td colspan="2">Group channel (x16)</td><td colspan="2">Group address</td></tr>
<tr><td rowspan="3">Indication and details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td></tr>
<tr><td rowspan="2">1</td><td>0</td><td>No RMC address</td><td rowspan="2">RMC1</td><td rowspan="2">0 to 2</td><td rowspan="2">RMC2</td><td rowspan="2">0 to F</td></tr>
<tr><td>1</td><td>RMC address setting mode</td></tr>
</table>

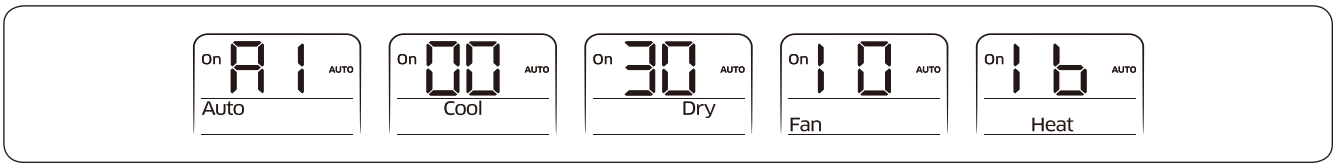
⚠ CAUTION

- The main address must be set to a value in the range 0 to 15. 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 SEG12 are set to new values.

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 installation options of indoor units are set to like a below table by default.

Model	Installation option
AC026BNAPKG	020010-100001-200000-300000
AC035BNAPKG	020010-100011-200000-300000
AC052BNAPKG	020010-100001-200000-300000
AC071BNAPKG	020010-100041-200000-300000

- 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, 16, 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	SEG1		SEG2		SEG3	SEG4			SEG5		SEG6
Function	Page		Mode			Use of external room temperature sensor / Minimizing fan operation when thermostat is off 1)			Central control		
	Indication	Details	Indication	Details		Indication	Details		Indication	Details	
							Use of external room temperature sensor	Minimizing fan operation when thermostat is off			
Indication and details	0		2		Reserved	0	Disuse	Disuse	0	Disuse	Reserved
						1	Use	Disuse			
						2	Disuse	Use(Heating)			
						3	Use	Use(Heating)			
						4	Disuse	Use(Cooling)			
						5	Use	Use(Cooling)	1	Use	
						6	Disuse	Use (Cooling/Heating)			
						7	Use	Use (Cooling/Heating)			
						8	Disuse	Use (Cooling Ultra low speed)			
						9	Use	Use (Cooling Ultra low speed)			
						A	Disuse	Use (Heating/Cooling Ultra low speed)			
						B	Use	Use (Heating/Cooling Ultra low speed)			

Option	SEG7		SEG8		SEG9	SEG10	SEG11			SEG12			
Function	Page		Use of drain pump				Windfree fan speed 2)			Dew removal operation in WindFree mode/ WindFree mode in Auto cleaning/ Smart Comfort in Auto mode			
	Indication	Details	Indication	Details			Indication	Details		Indication	Details		
								α	β		Dew removal operation in WindFree mode	WindFree mode in Auto cleaning	Smart Comfort in Auto mode
Indication and details	1		0	Disuse	Reserved	Reserved	0	0	0	0	Maintain blade	WindFree disuse	Smart Comfort use
							1	1	0				
							2	2	0	1	Open blade		
							3	3	0				
			8	Use external drain pump			4	4	0	2	Maintain blade	WindFree use	
							5	5	0				
							6	6	0	3	WindFree disuse		
							7	7	0				
							8	8	0	4	Maintain blade	WindFree disuse	Smart Comfort disuse
							9	9	0				
							A	10	0	5	Open blade		
							B	11	0				
							C	12	0	6	Maintain blade	WindFree use	
							D	13	0				
							E	14	0	7	WindFree disuse		
							F	15	0				

Installation

<table>
<tr><td>Option</td><td colspan="2">SEG13</td><td colspan="3">SEG14</td><td colspan="2">SEG15</td><td>SEG16</td><td colspan="2">SEG17</td><td colspan="2">SEG18</td></tr>
<tr><td>Function</td><td colspan="2">Page</td><td colspan="3">Use of external control</td><td colspan="2">Setting the output of external control</td><td rowspan="17">Reserved</td><td colspan="2">Buzzer control</td><td colspan="2">Maximum filter usage time 3)</td></tr>
<tr><td rowspan="17">Indication and details</td><td>Indication</td><td>Details</td><td>Indication</td><td colspan="2">Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td></tr>
<tr><td rowspan="16">2</td><td>0</td><td>Disuse</td><td rowspan="4">Sub, Existing control</td><td rowspan="8">0</td><td rowspan="8">Thermo on</td><td rowspan="8">0</td><td rowspan="8">Use of buzzer</td><td rowspan="8">2</td><td rowspan="8">1000 hours</td></tr>
<tr><td>1</td><td>On/Off</td></tr>
<tr><td>2</td><td>Off</td></tr>
<tr><td>3</td><td>Window On/Off</td></tr>
<tr><td>4</td><td>Disuse</td><td rowspan="4">Main, Existing control</td></tr>
<tr><td>5</td><td>On/Off</td></tr>
<tr><td>6</td><td>Off</td></tr>
<tr><td>7</td><td>Window On/Off</td></tr>
<tr><td>8</td><td>Disuse</td><td rowspan="4">Sub, Reverse control</td><td rowspan="8">1</td><td rowspan="8">Operation On</td><td rowspan="8">1</td><td rowspan="8">Disuse of buzzer</td><td rowspan="8">6</td><td rowspan="8">2000 hours</td></tr>
<tr><td>9</td><td>On/Off</td></tr>
<tr><td>A</td><td>Off</td></tr>
<tr><td>B</td><td>Window On/Off</td></tr>
<tr><td>C</td><td>Disuse</td><td rowspan="4">Main, Reverse control</td></tr>
<tr><td>D</td><td>On/Off</td></tr>
<tr><td>E</td><td>Off</td></tr>
<tr><td>F</td><td>Window On/Off</td></tr>
<tr><td>Option</td><td colspan="2">SEG19</td><td colspan="2">SEG20</td><td colspan="2">SEG21</td><td colspan="2">SEG22</td><td colspan="2">SEG23</td><td colspan="2">SEG24</td></tr>
<tr><td>Function</td><td colspan="2">Page</td><td colspan="2">Individual control with remote control 4)</td><td colspan="2">Heating setting compensation 5)</td><td colspan="2" rowspan="5">Reserved</td><td colspan="2" rowspan="5">Reserved</td><td colspan="2" rowspan="5">Reserved</td></tr>
<tr><td rowspan="5">Indication and details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td></tr>
<tr><td rowspan="4">3</td><td>0,1</td><td>Indoor1</td><td>0</td><td>Default</td></tr>
<tr><td>2</td><td>Indoor2</td><td rowspan="2">1</td><td rowspan="2">2°C</td></tr>
<tr><td>3</td><td>Indoor3</td></tr>
<tr><td>4</td><td>Indoor4</td><td>2</td><td>5°C</td></tr>
</table>

- 1) SEG4: By SEG4 setting, Minimizing fan operation when thermostat is off.
  - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
  - Fan stops or operates Ultra low in Cooling when thermostat is off.
- 2) SEG11: Compensation of the wind-free fan RPM option adjusts 20 rpm per 1 step.
- 3) SEG18: If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- 4) SEG20: If you set the Individual control with remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1)
- 5) SEG21: Default value of Heating setting compensation is 0

- 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.

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

Condition		SEG 14 Setting				Result
External control	Level control	Indoor 1	Indoor 2	Indoor 3	Indoor 4	
Default		Not set (0)				Sub (All)
Disuse	Use	4	Not set (0)	Not set (0)	Not set (0)	Main (Indoor 1), Sub (Indoor 2,3,4)
Use (Indoor 3)	Disuse	Not set (0)	Not set (0)	1~3	Not set (0)	Sub (All)
Use (Indoor 4)	Use	Not set (0)	Not set (0)	Not set (0)	5~7	Main (Indoor 4), Sub (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

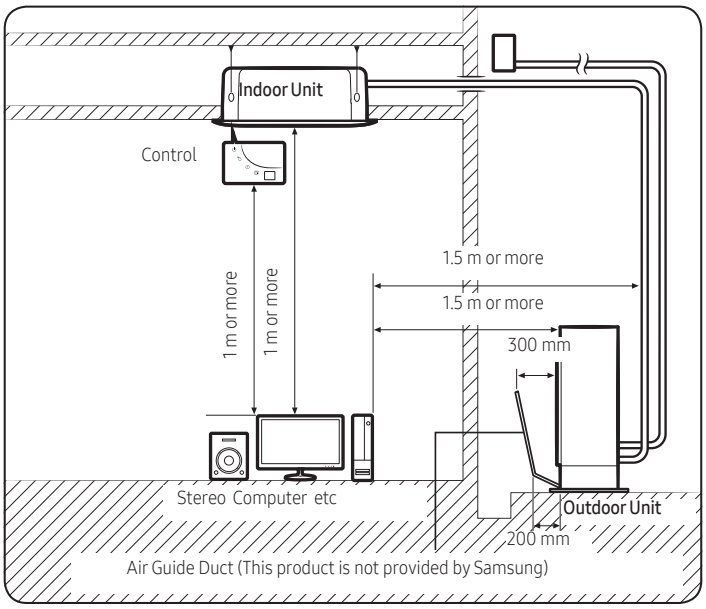
Installation

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.



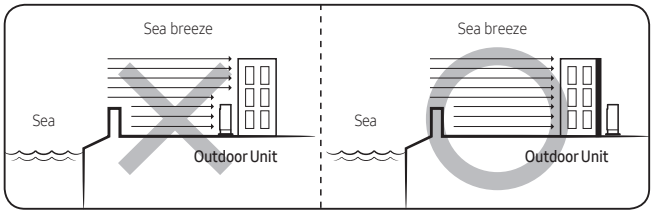
- Install the unit at a height where its base can be firmly fixed in place.
- Make sure that the water dripping from the drain hose runs away correctly and safely.

CAUTION

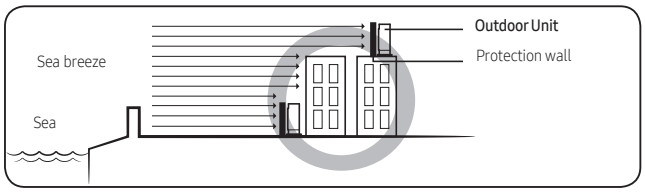
- You have just purchased a system air conditioner and it has been installed by your installation specialist.
- This device must be installed according to the national electrical rules.
- If your outdoor unit exceeds a net weight of 60 kg, do not install it on a suspended wall, but stand it on a floor.

- 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.

Installation



- 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.



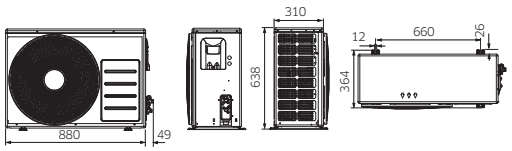
⚠ CAUTION

- 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)
- 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.)
- Check the condition of the product periodically.
  - Check the installation site every 3 months and perform anti-corrosion treatment such as R-Pro supplied by SAMSUNG (Code : MOK-220SA) or commercial water repellent grease and wax, etc., based on the product condition.
  - When the product is to be shut down for a long period of time, such as off-peak hours, take appropriate measures like covering the product.
- If the product installed within 500m of seashore, special anti-corrosion treatment is required.
  ※ Please contact your local SAMSUNG representative for further details.

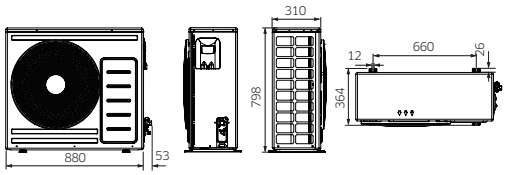
Installation

Outdoor unit dimensions

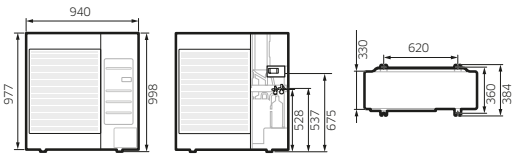
A Type
AC026BXAPKG / AC035BXAPKG
(Unit : mm)



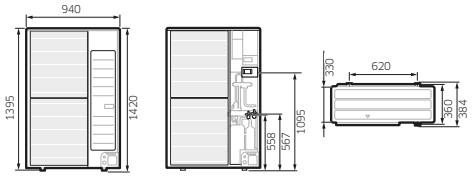
B Type
AC052BXAPKG
(Unit : mm)



C Type
AC071BXAPKG / AC071BXAPNG
(Unit : mm)



D Type
AC100BXAPKG / AC100BXAPNG / AC120BXAPNG / AC140BXAPNG
(Unit : mm)

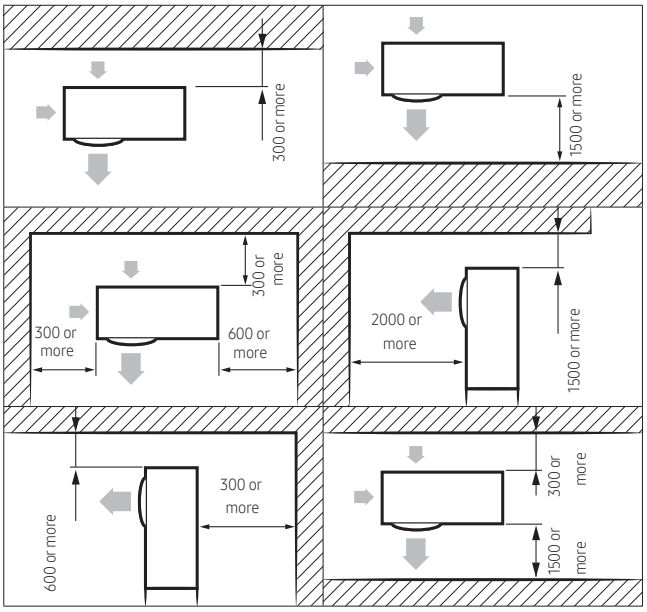


Installation

Minimum clearances for the outdoor unit

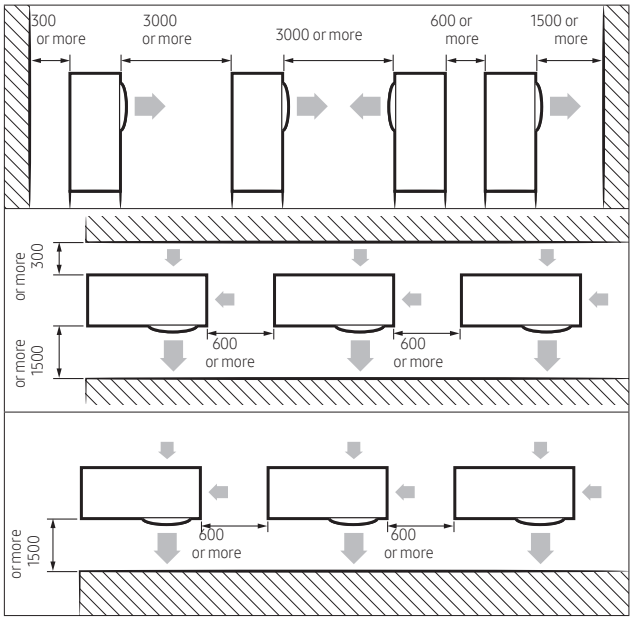
When installing 1 outdoor unit

(Unit: mm)

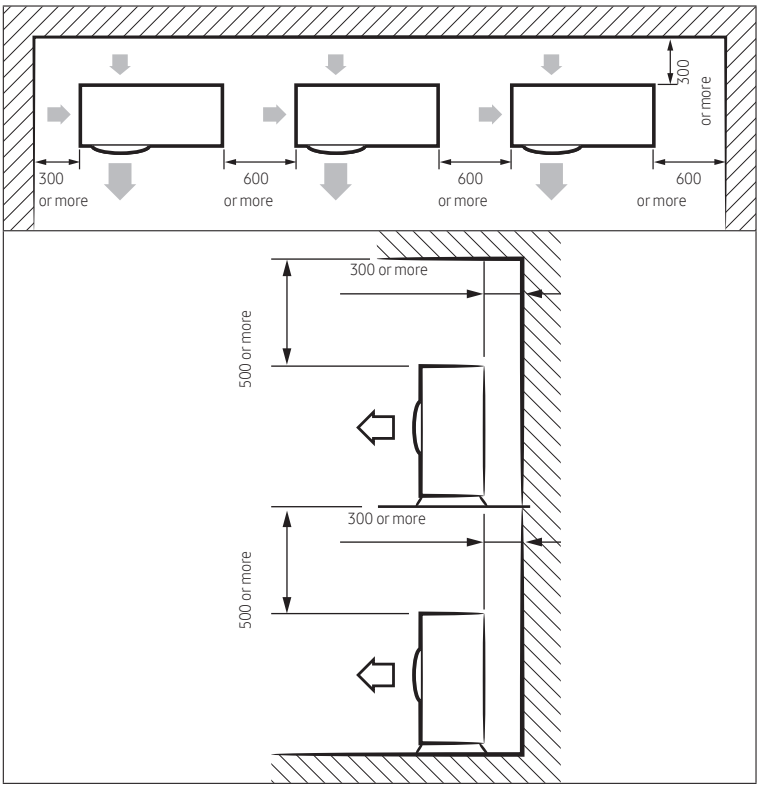


When installing more than 1 outdoor unit

(Unit: mm)



Installation

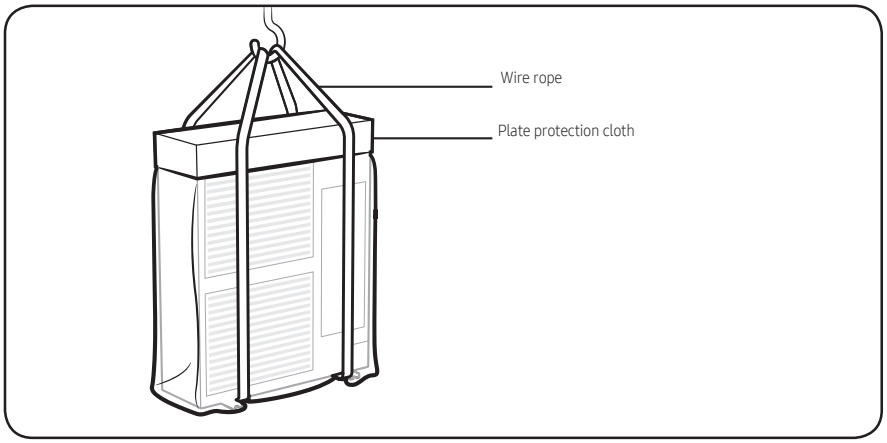


CAUTION

- 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.



Installation

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).

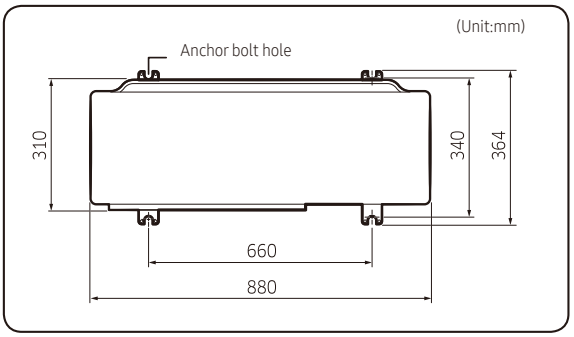
1 Position the outdoor unit so that the air flow is directed towards the outside, as indicated by the arrows on the top of the unit.

2 Attach the outdoor unit to the appropriate support using anchor bolts.

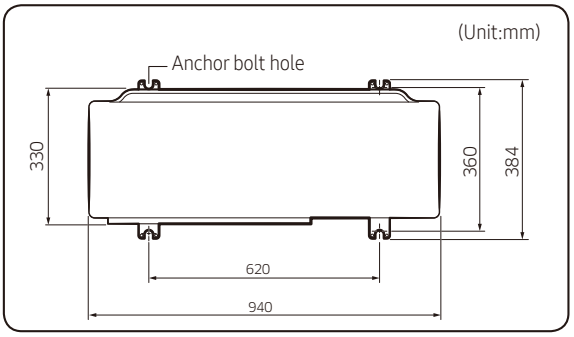
- The ground wire for the telephone line cannot be used to ground the air conditioner.
- Fix the outdoor unit with anchor bolts. Make sure that the anchor bolts are 20 mm or higher from the base surface.

3 If the outdoor unit is exposed to strong winds, install shield plates around the outdoor unit, so that the fan can operate properly.

- **AC026BXAPKG/AC035BXAPKG/AC052BXAPKG**



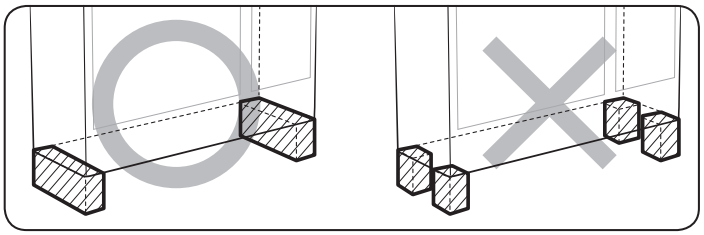
- **AC071BXAPKG/AC071BXAPNG/AC100BXAPKG/AC100BXAPNG/AC120BXAPNG/AC140BXAPNG**



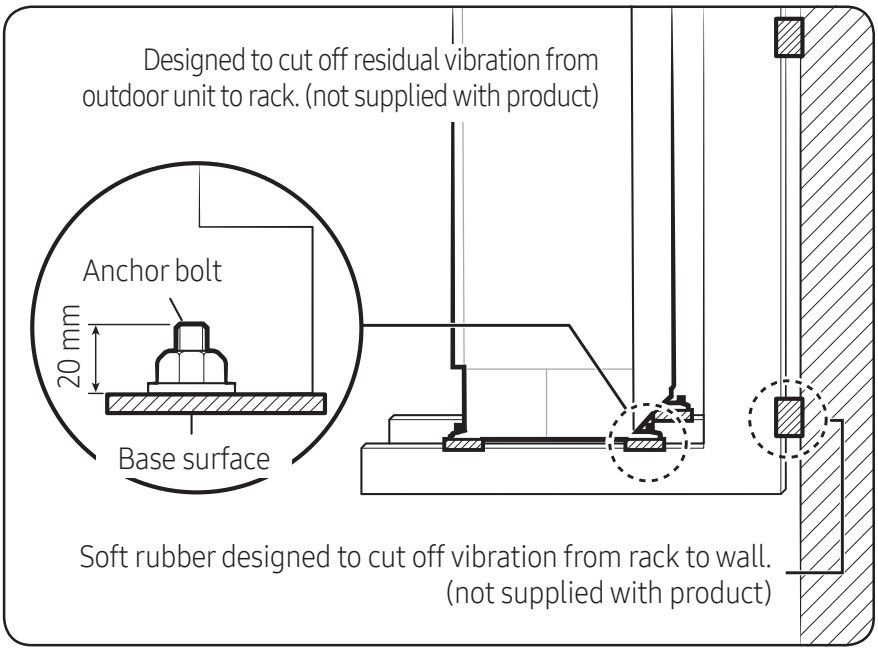
CAUTION

- 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.

Installation



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

- 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.
- 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.

Installation

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

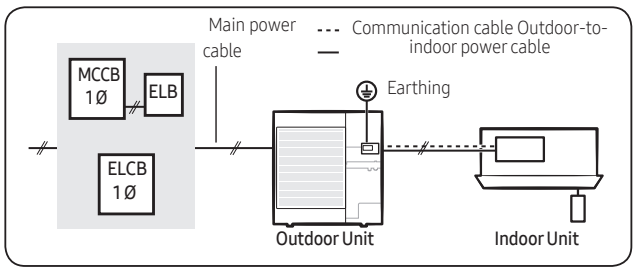
- During installation, make first the refrigerant connections and then the electrical connections. If the unit is uninstalled, first disconnect the and then the refrigerant connections.
- Connect the air conditioner to the earthing system before making the electrical connections.

NOTE

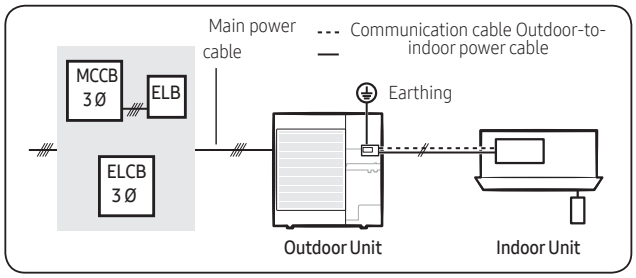
- Especially, if your outdoor unit is the one designed for Russian and European markets, consult the supply authority, if necessary, to estimate and reduce the supply system impedance before installation.

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)

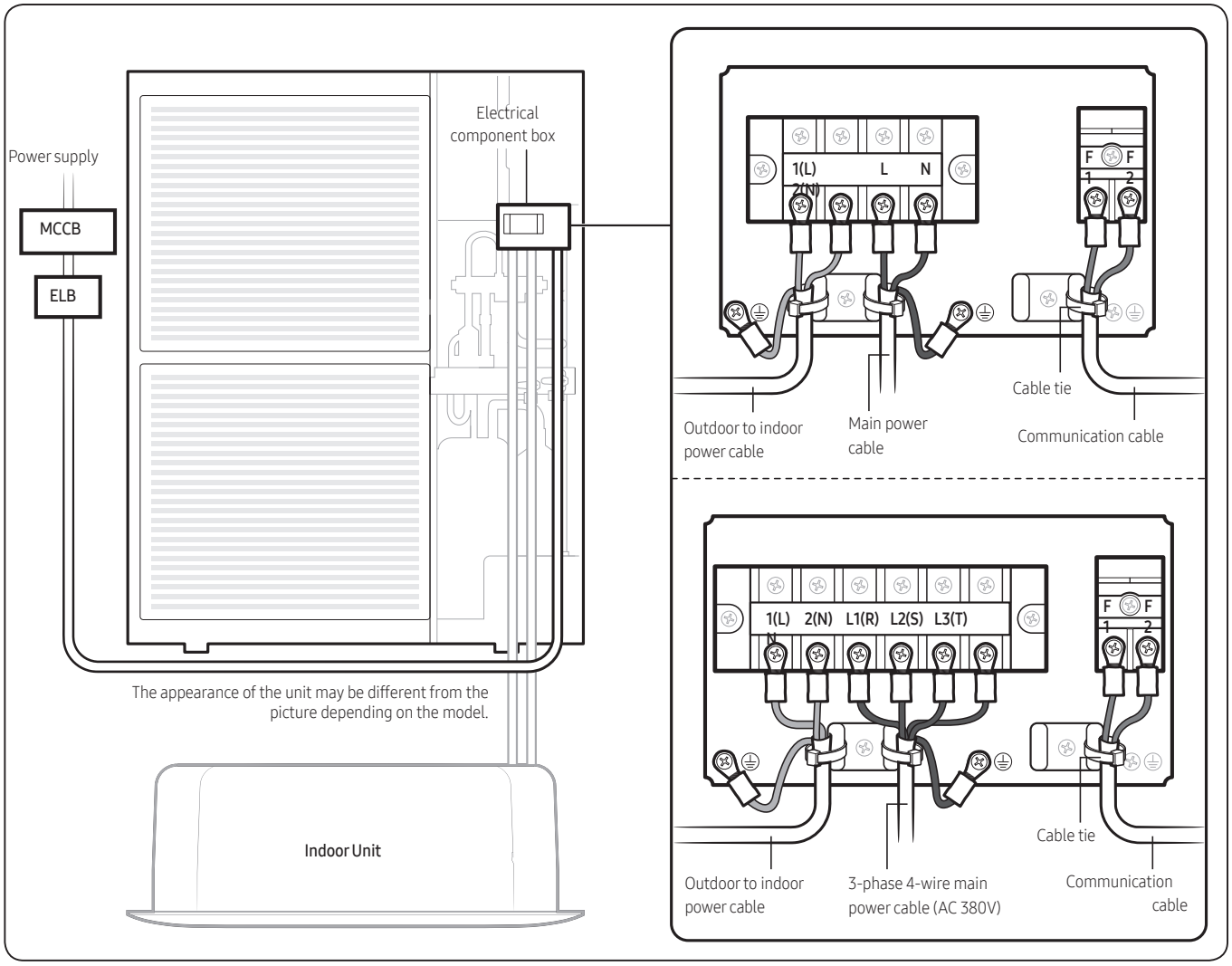


CAUTION

- If the outdoor unit is installed in a location vulnerable to an electric leak or submergence, make sure to install an ELCB.

Installation

When using ELB for 1 phase and 3 phase



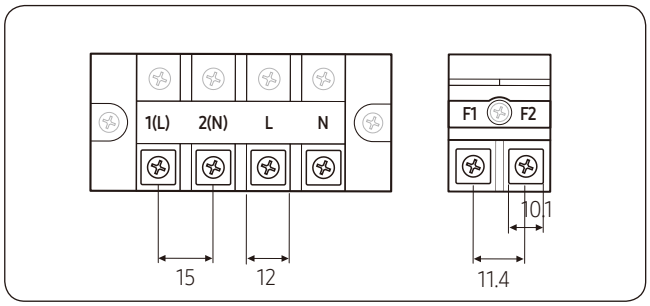
⚠ CAUTION

- 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.

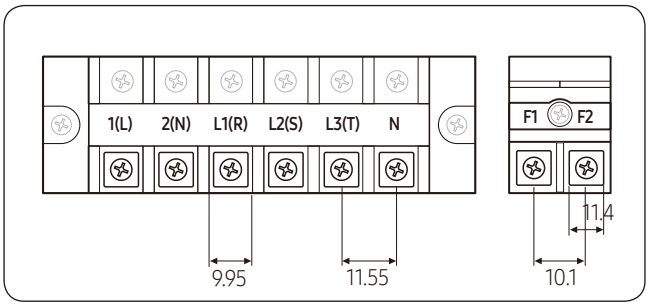
Installation

Main power terminal block specifications

- 1-phase terminal block specifications



- 3-phase terminal block specifications



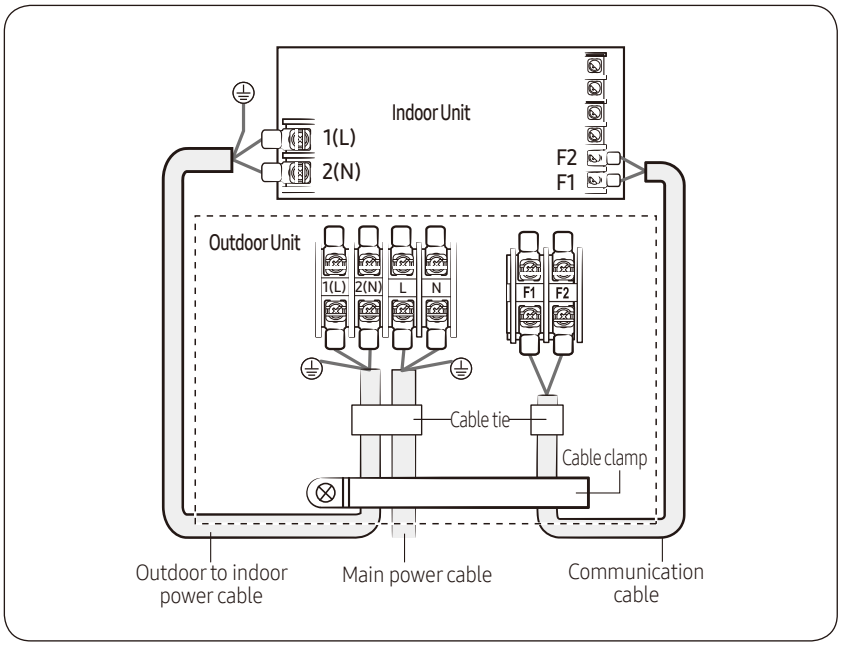
Main power cable specifications

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.

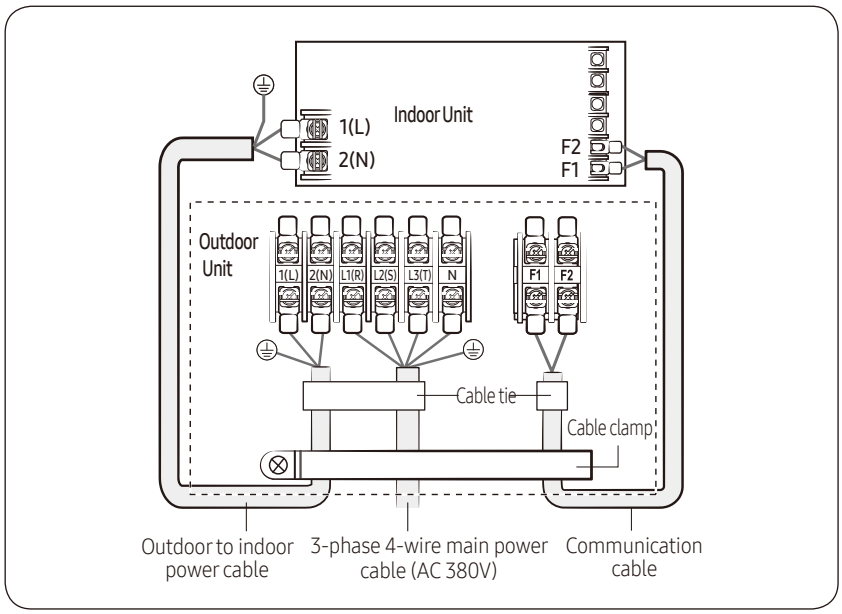
Connecting the outdoor-to-indoor power cable and the communication cable

- **1 phase**



Installation

- **3 phase**



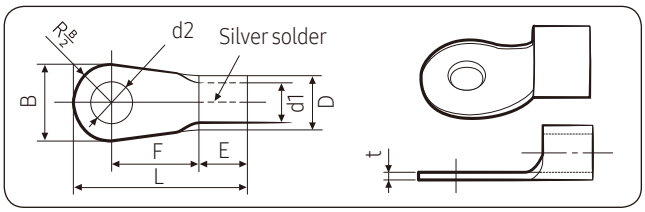
NOTE

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

Installation

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

- 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 (N·m)	
M4	0.8 to 1.2
M5	2.0 to 3.0

- 1 N·m = 10 kgf·cm

Installation

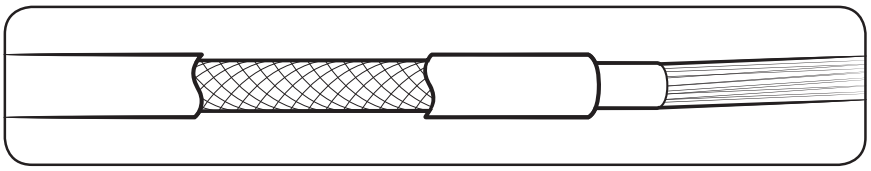
⚠ CAUTION

- 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
1ø, 220 to 240V, 50 Hz	±10%	Cassette, RAC, Console : 0.75㎟↑, 3wires Duct, Ceiling : 1.5㎟↑, 3wires
Communication cable		
0.75㎟ ↑ , 2wires		

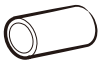
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 /CENELEC: H07RN-F)
- When installing the indoor unit in a computer room or net work room, use the double shielded (tape aluminium / polyester braid + copper) cable of FROHH2R type.



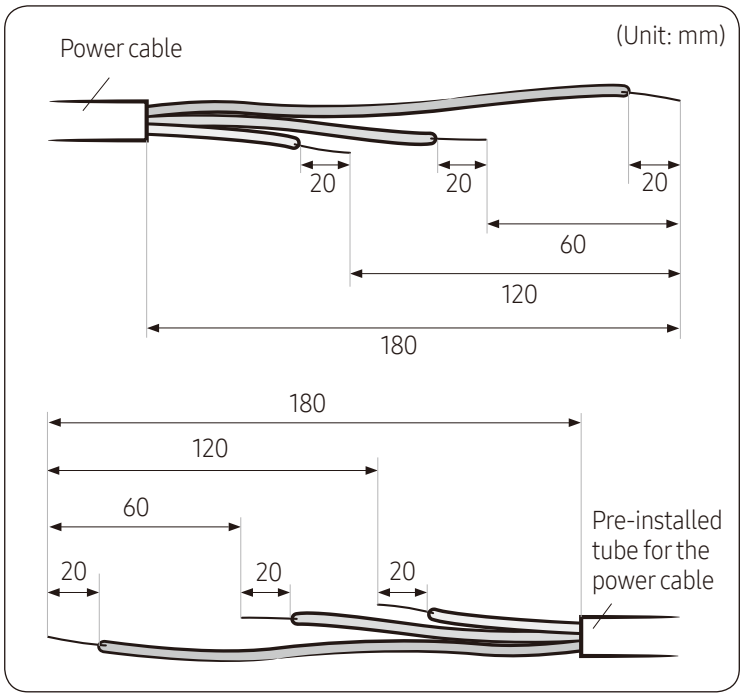
Installation

Extending the power cable

1 Prepare the following tools.

Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve (mm)	20 x Ø6.5 (H x OD)	
Insulation tape	Width 19 mm	
Contraction tube (mm)	70 x Ø8.0 (L x OD)	

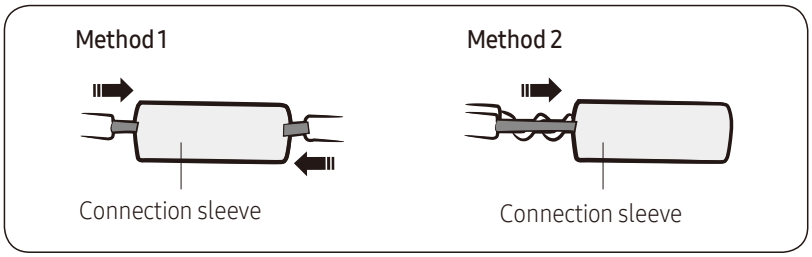
2 As shown in the figure, peel off the shields from the rubber and wire of the power cable.
- Peel off 20 mm of cable shields from the pre- installed tube.



⚠ 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.

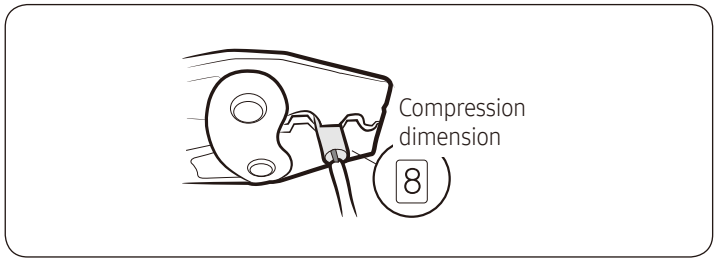


CAUTION

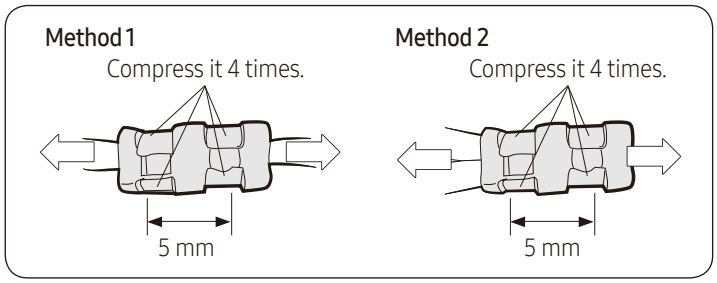
- If cable wires are connected without using connecting sleeves, their contact area becomes reduced, or corrosion develops on the outer surfaces of the wires (copper wires) over a long time. This may cause an increase of resistance (reduction of passing current) and consequently may result in a fire.

4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.

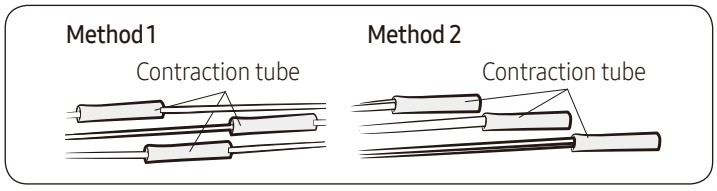
- The compression dimension should be 8.0.



- After compressing it, pull both sides of the wire to make sure it is firmly pressed.

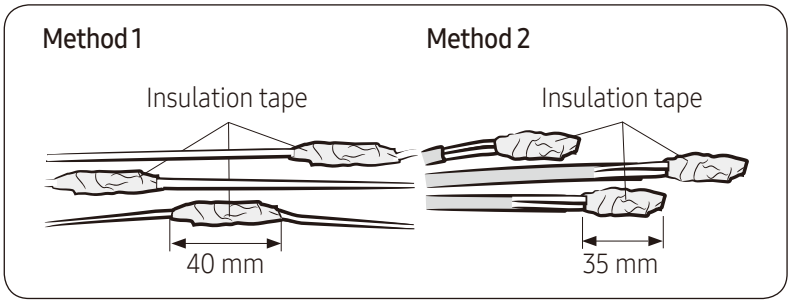


5 Apply heat to the contraction tube to contract it.

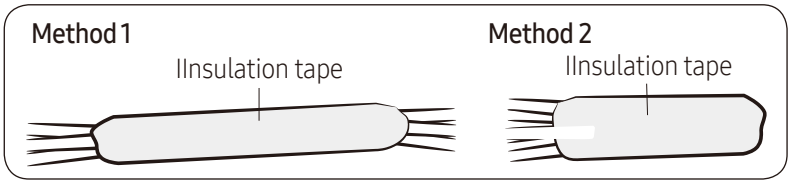


6 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

Installation



7 After tube contraction work is completed, wrap it with the insulation tape to finish.
Three or more layers of insulation are required.

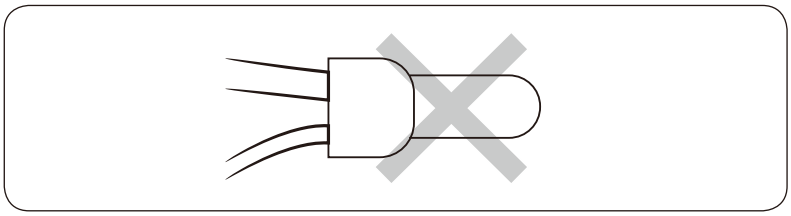


⚠ CAUTION

- 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

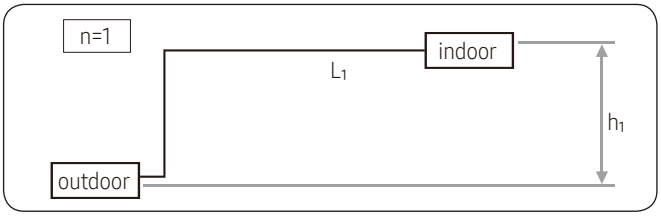
- In case of extending the electric wire, please DO NOT use a round-shaped Pressing socket.
  - Incomplete wire connections can cause electric shock or a fire.



Installation

Connecting the refrigerant pipe

Items	Maximum allowable length [ft(m)]			
Applicable outdoor unit models	AC026BXAPKG AC035BXAPKG	AC052BXAPKG	AC071BXAPKG AC071BXAPNG	AC100BXAPKG AC100BXAPNG AC120BXAPNG AC140BXAPNG
Main pipe (L1)	30m	50m	55m	85m
Max. height difference between outdoor and indoor units (h1)	20m	30m	30m	30m

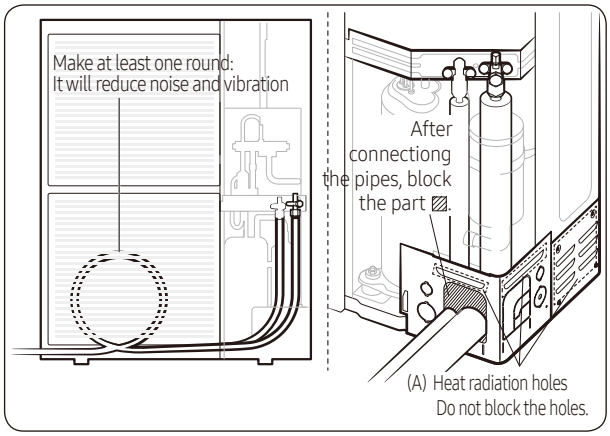


- Temper grade and minimum thickness of the refrigerant pipe

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

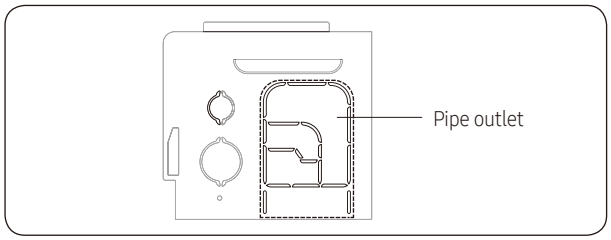
- Be sure to use C1220T-1/2H (Semi-hard) pipe for more than Ø19.05 mm. If you use C1220T-O (Soft) pipe for Ø19.05 mm, the pipe may be broken, which can result in an injury.



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

Installation

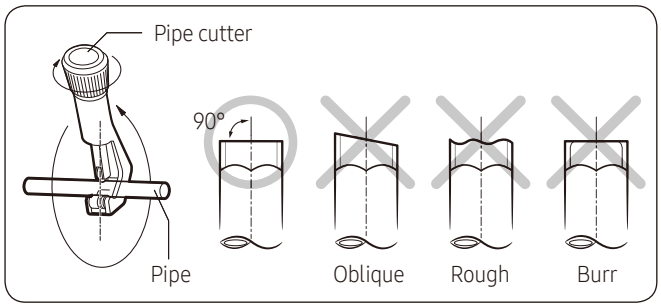
⚠ CAUTION



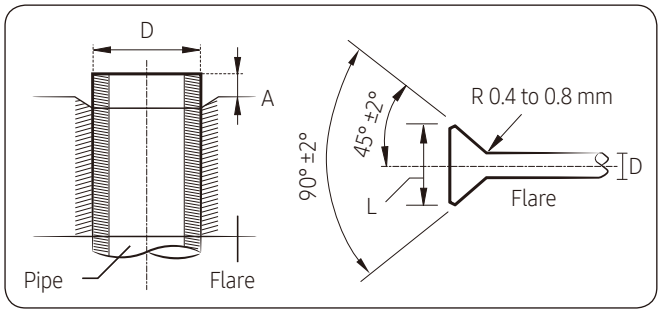
- Cut the pipe outlet to the exact pipe size. In addition, remove foreign substances and burres aroud the outlet.
- Perform cutting with only a cutter (ex. nipper) and never tap with a hammer near the pipe outlet. Otherwise, it may cause product damage such as warping of the cabinet.
- After connecting the pipes with Pipe outlet, plug the space around the pipes.
- After connecting the pipes, proceed exactly as directed in the guide to prevent interference with the internal parts.
- Tighten the nuts to the specified torques. If overtightened, the nuts could be broken so refrigerant may leak.
- Protect or enclose refrigerant tubing to avoid mechanical damage.
- After installing pipes, block the unused knock hole to prevent small animal from entering. However, the radiant heat hole(A) should be able to intake air.

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.



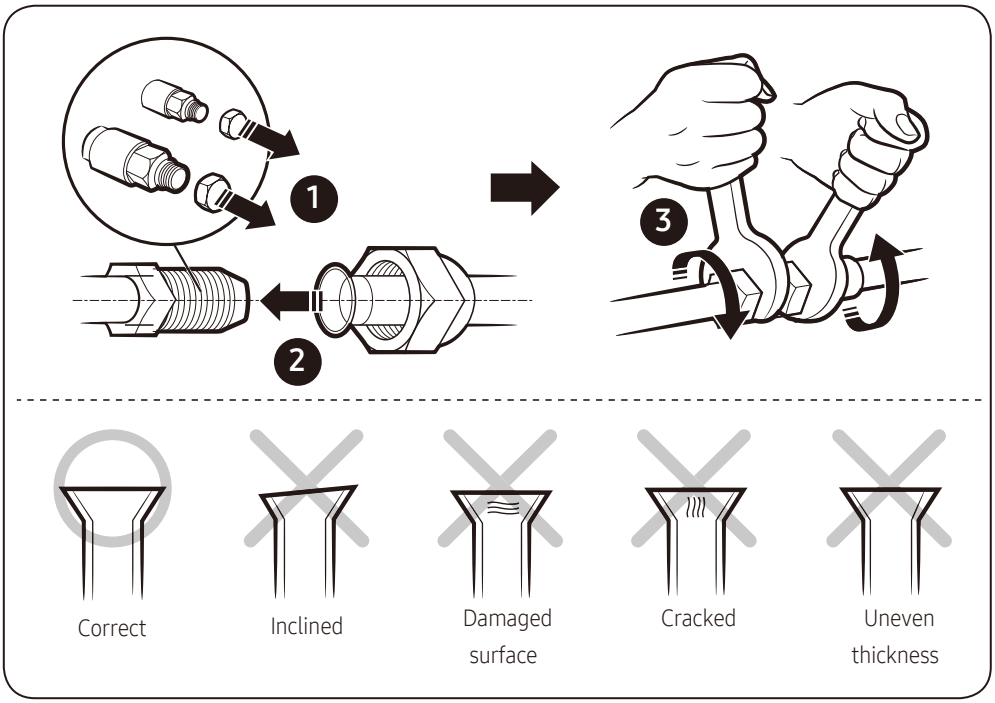
3 To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
4 Slide a flare nut on to the pipe and modify the flare.



Installation

Outer diameter (D)	Depth (A)	Flare dimension (L)
ø6.35 mm	1.3mm	8.7 to 9.1 mm
ø9.52 mm	1.8mm	12.8 to 13.2 mm
ø12.70 mm	2.0mm	16.2 to 16.6 mm
ø15.88 mm	2.2mm	19.3 to 19.7 mm
ø19.05 mm	2.2mm	23.6 to 24.0 mm

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



⚠ CAUTION

- Keep the piping length at a minimum to minimize the additional refrigerant charge due to piping extension.
- When connecting the pipes, make sure that surrounding objects do not interfere with or contact them to prevent refrigerant leakage due to physical damage.
- Make sure that the spaces where the refrigerant pipes are installed comply with national gas regulations.
- Be sure to perform works such as additional refrigerant charging and pipe welding under the conditions of good ventilation.
- Be sure to perform welding and piping works for mechanical connections under the conditions that the refrigerant does not circulate
- When reconnecting the pipes, make sure to perform flared-jointing newly to prevent refrigerant leakage.
- When working on the refrigerant pipes and the flexible refrigerant connectors, be careful that they are not damaged physically by surrounding objects.
- During tests never pressurize the appliances with a pressure higher than the maximum allowable pressure(as indicated on the nameplate of the unit).
- Never directly touch any accidental leaking refrigerant. This could result in severe wounds caused by frostbite.
- Never install a dryer to this unit in order to guarantee its lifetime.
- 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.
- If you need a pipe longer than specified in piping codes and standards, you must add refrigerant to the pipe. Otherwise, the indoor unit may freeze.
- While removing burrs, put the pipe face down to make sure that the burrs do not get in to the pipe.

Installation

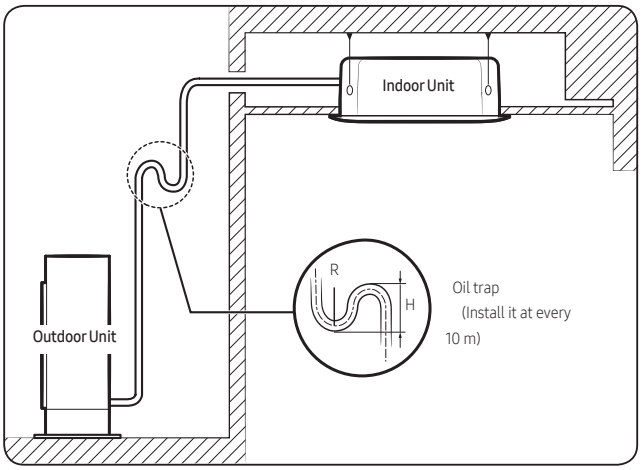
Installing oil traps

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, mm)	12.7	15.88	19.05	22.23	25.4	28.6	31.75
Radius of curvature (R, mm)	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



Installation

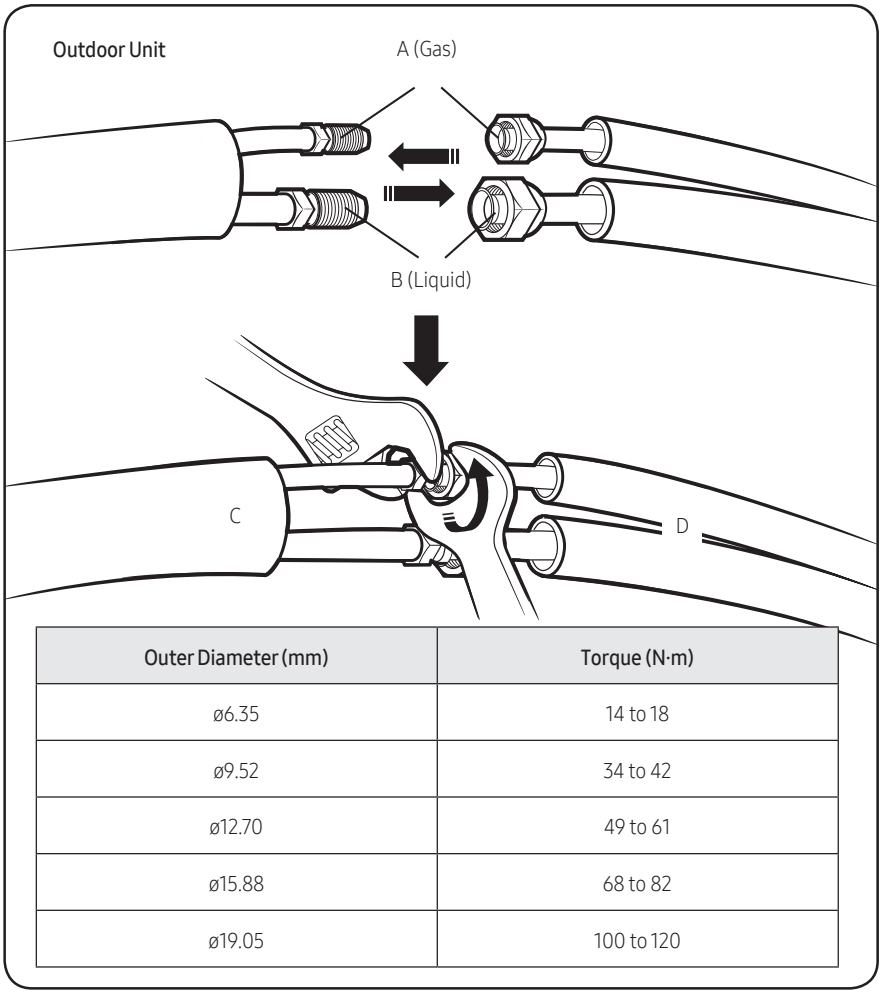
Connecting up and removing air in the circuit

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 (mm)	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.

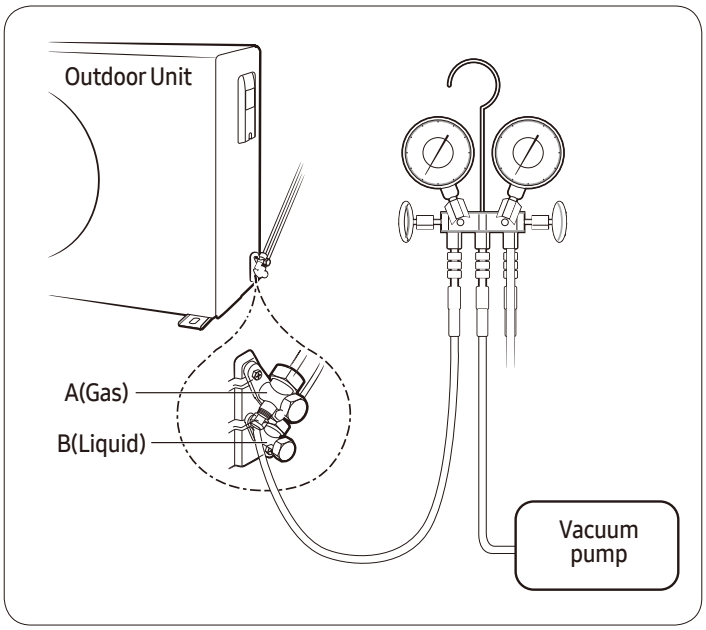
CAUTION

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

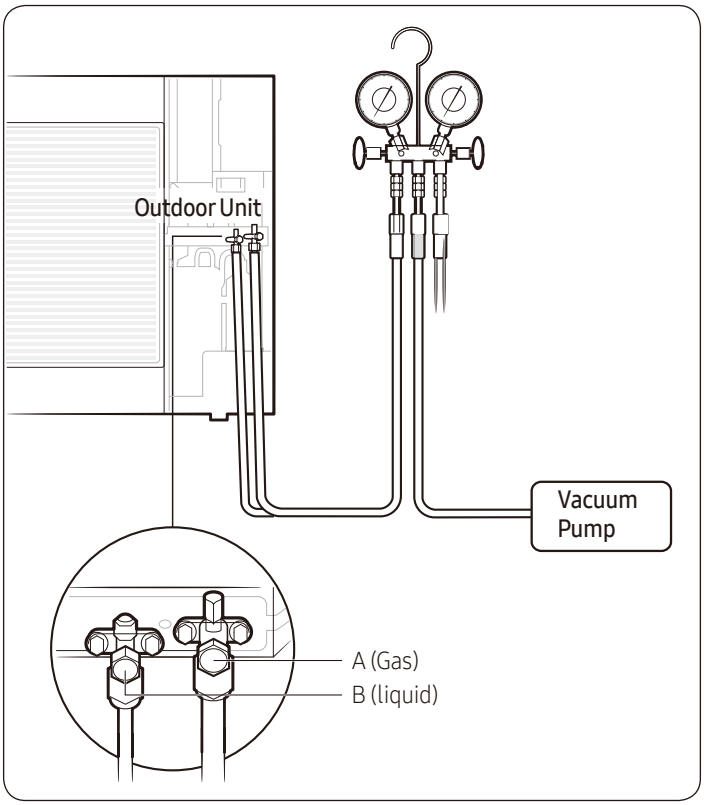
4 Open the valve of the low pressure side(A) of manifold gauge anticlockwise.

Installation

- **AC026/035/052BXAPKG**



- **AC071/100BXAPKG, AC071/100/120/140BXAPNG**



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 18 N·m 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-32)

- In addition to the conventional charging procedure, the following requirements shall be kept.
- Make sure that contamination by other refrigerants does not occur for charging.
- To minimize the amount of refrigerant, keep the hoses and lines as short as possible.
- The cylinders shall be kept upright.
- Make sure that the refrigeration system is earthed before charging.
- Label the system after charging, if necessary.
- Extreme care is required not to overcharge the system.
- Before recharging, the pressure shall be checked with nitrogen blowing.
- After charging, check for leakage before commissioning.
- Be sure to check for leakage before leaving the work area.
- 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 on page 25.

1 Check if the stop valve is closed completely.
2 Charge the refrigerant through the service port of the liquid stop valve.

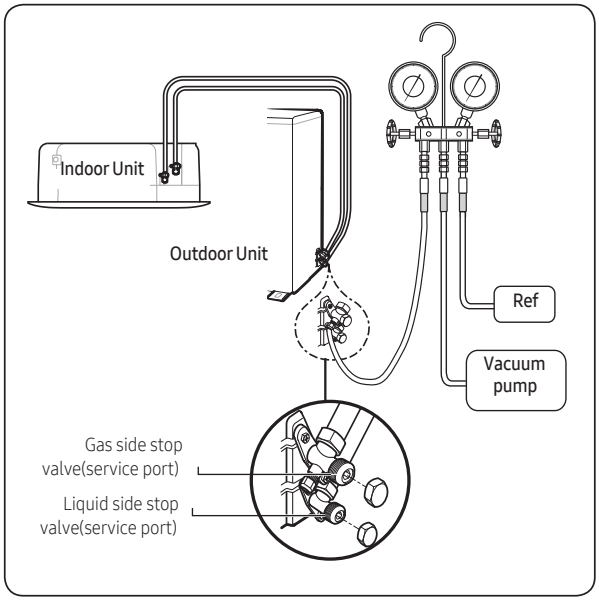
NOTE

- Do not charge the refrigerant through the service port of the gas stop valve.

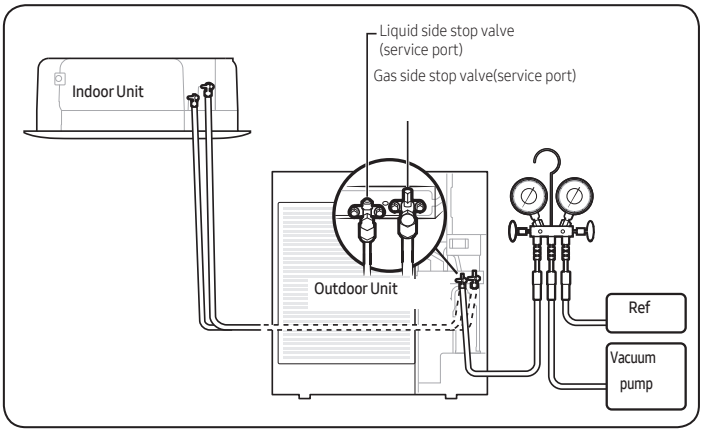
3 If you have any difficulty charging the refrigerant as described in the steps above, take the following steps:
    a Open the liquid stop valve and gas stop valve.
    b Operate the air conditioner by pressing the K2 key on the outdoor unit PCB.
    c After about 30 minutes, charge the refrigerant through the service port of the gas stop valve.

Installation

- **AC026/035/052BXAPKG**



- **AC071/100BXAPKG, AC071/100/120/140BXAPNG**



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.

Model	Interconnection pipe length (m)		
	0 to 20	20 to 30	30 to 50
AC026BXAPKG	0	+30 g/m over 20 m	
AC035BXAPKG	0	+30 g/m over 20 m	
AC052BXAPKG	0	+30 g/m over 20 m	

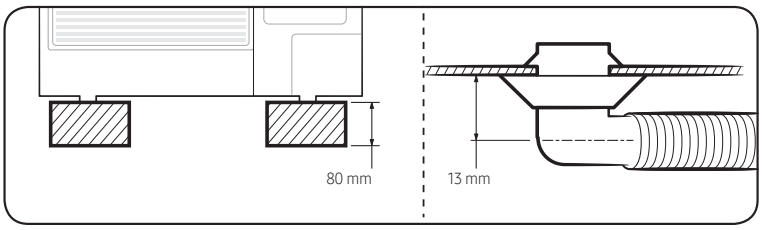
Model	Interconnection pipe length (m)		
	0~30	30~55	55~85
AC071BXAPKG	0	+45 g/m over 30 m	
AC071BXAPNG			
AC100BXAPKG	0	+45 g/m over 30 m	
AC100BXAPNG			
AC120BXAPNG			
AC140BXAPNG			

Installation

Connecting the drain hose to the outdoor unit

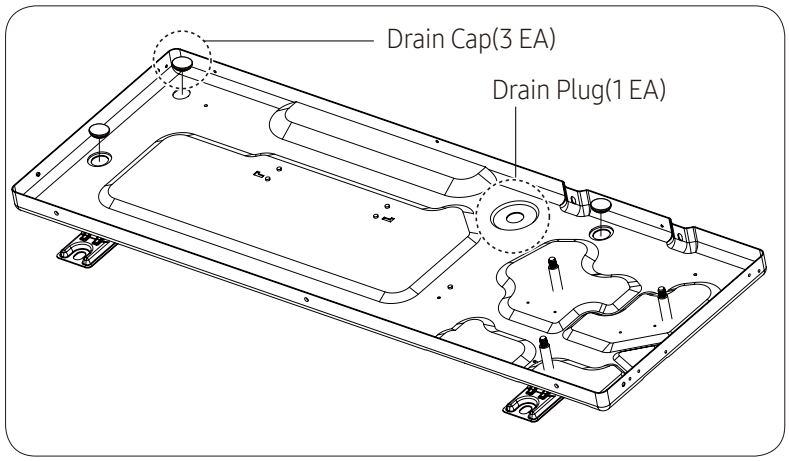
When using the air conditioner in the heating mode, ice may accumulate . During de-icing (defrost operation), the condensed water must be drained off safely. Consequently, you must install a drain hose on the outdoor unit, following the instructions below.

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.



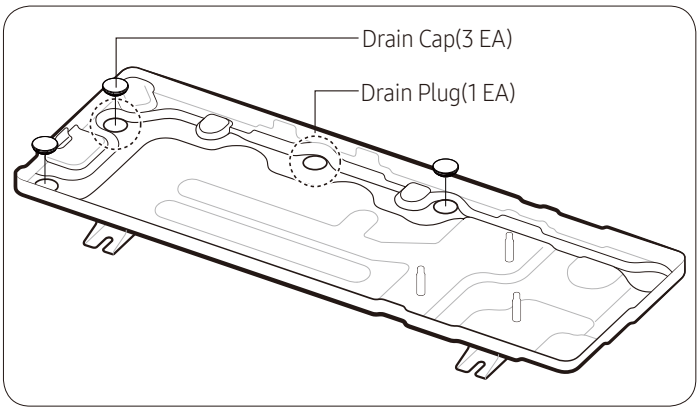
5 Be sure to plug the rest of drain holes not connected with drain plugs using drain caps.

- **AC026/035/052BXAPKG**



Installation

- **AC071/100BXAPKG, AC071/100/120/140BXAPNG**

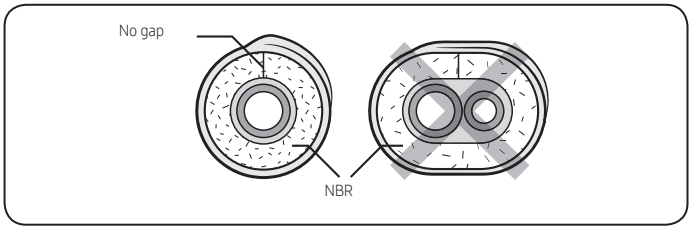


- When installing the product, make sure that the rack is not placed under the drain hole.
- If the product is installed in a region of heavy snow, allow enough separation distance between the product and the ground.

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.

Installation

⚠ 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 (mm)	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.

Installation

Checking the earthing

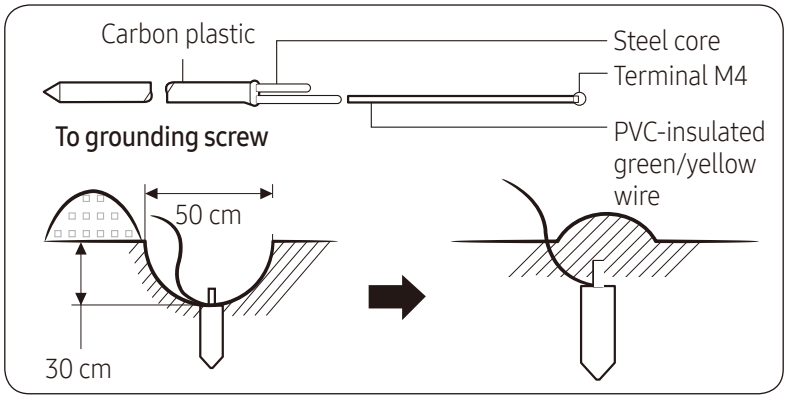
If the power distribution circuit does not have a earthing or the earthing does not comply with specifications, an earthing electrode must be installed. The corresponding accessories are not supplied with the air conditioner.

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.

Installation

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 phase 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.

Key	Push type		Mode	Display			
				SEG 1	SEG 2	SEG 3	SEG 4
K1	Short	1st	Heating test mode	H	1	0	0
		2nd	Defrost test mode 1)	H	3	0	0
		3rd	End Key operation	0	0	0	0
K2	Short	1st	Cooling test mode	H	2	0	0
		2nd	Inverter check	H	4	0	0
		3rd	Pump down	H	6	0	0
		4th	Unusual	H	8	0	0
		5th	Inverter Fault Detection (Comp#1) 2)	H	A	0	0
		6th	Auto trial operation	H	C	0	0
		7th	Auto check 3) (Installtion commissioning mode)	H	E	0	0
		8th	End Key operation	0	0	0	0
K3	Short	1st	Reset Release Eco mode	0	0	0	0

Installation

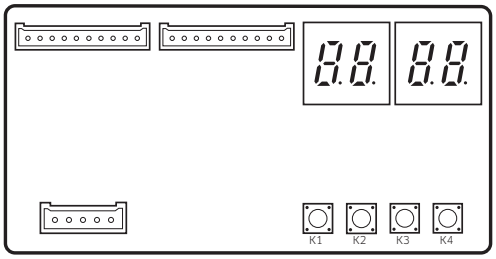
[1] Defrost test mode
Condition 1: The outdoor temperature is below 10°C.
Condition 2: All the temperature conditions should meet the defrost conditions.

[2] Indication on the display and action to take when an inverter fault is detected

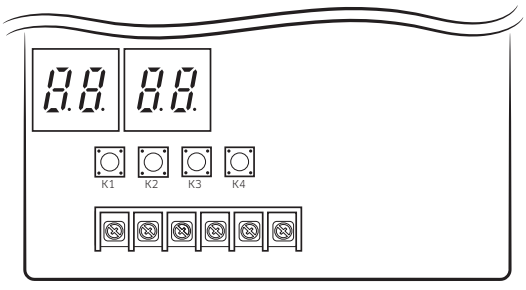
	SEG1	SEG2	SEG3	SEG4	Action to take
Fault detection is in progress	7	1	-	-	-
OK	7	1	0	H	-
NG	7	1	n	0	PBA defect: Replace the PBA
Check	7	1	C	h	Manual inspection is required
Going into fault detection mode failed	7	1	F	L	Try fault detection again

[3] Auto check (Installation commissioning mode) To ensure normal operation of the product, first make sure to complete auto check. See step 16.

1 phase



3 phase



4 After 12 minutes operation check discharged air

- Cooling mode (indoor unit check) → Inlet air temp. - Outlet air temp.: From 10°C to12°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.

Installation

5 How to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode):

- Press K3 button over 1 sec to reset the power supply of the outdoor unit and deactivate the eco mode (standby mode).

※ Eco mode: Standby for minimizing power consumption

6 View mode: When the K4 switch is pressed, you can see information about our system state as below.

- For a function that is not supported, "-" is shown for SEG2, SEG3 or SEG4.

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 preset indoor units	3	Hundreds digit	Tens digit	Units digit	EA
4	Ambient temperature sensor	4	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
5	Compressor discharge sensor	5	Hundreds digit	Tens digit	Units digit	°C or °F 2)
6	Eva-Mid sensor	6	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
7	Condensor sensor	7	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
8	Current	8	Tens digit	Units digit	The first place of decimals	A
9	Outdoor fan RPM	9	Thousands digit	Hundreds digit	Tens digit	rpm
10	Target discharge temperature	A	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
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 or kBtu/h 3)
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	IPM temperature	E	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
15	The number of connected indoor units	F	Hundreds digit	Tens digit	Units digit	EA
16	ESC EEV(CAM)	G	Hundreds digit	Tens digit	Units digit	step
17	ESC IN sensor	H	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
18	ESC OUT sensor	I	Hundreds digit or "-" 1)	Tens digit	Units digit	°C or °F 2)
19	View mode end	BLANK	BLANK	BLANK	BLANK	

1) Sub-zero temperatures are expressed as a minus, instead of hundreds digit.
2) The temperature unit can be switched between Celsius and Fahrenheit through Setting outdoor unit option switches. (Default value is Celsius.)
3) If the temperature unit is set to Fahrenheit through Setting outdoor unit option switches, the value is expressed in the unit of kBtu/h.

Installation

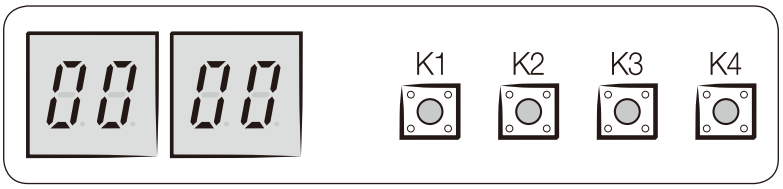
		Display contents	SEG1	SEG2	SEG3	SEG4
K4 long push	-	Main micom version	Year (Dec)	Month (Hex)	Date (Tens digit)	Date (Units digit)
	After short push 1	Inverter micom version	Year (Dec)	Month (Hex)	Date (Tens digit)	Date (Units digit)
	After short push 2	E2P version	Year (Dec)	Month (Hex)	Date (Tens digit)	Date (Units digit)
	After short push 3	Page 1 - AUTO Page 2 - (SEG1,2 - Indoor : "A","0") (SEG3,4 - Address : ex) 00)				
	After short push 4	Page 1 - MANU Page 2 - (SEG1,2 - Indoor : "A","0") (SEG3,4 - Address : ex) 00)				

Long push K4 (Main micom ver.) → short push 1 more (Inv. micom ver.) → short push 1 more (E2P. ver.) → short push 1 more (Automatic address) → short push 1 more (Manual address) → short push 1 more (Main micom ver.) → ..... → Long push K4 (View mode end)

7 Setting outdoor unit option switch and address manually

a Setting the option

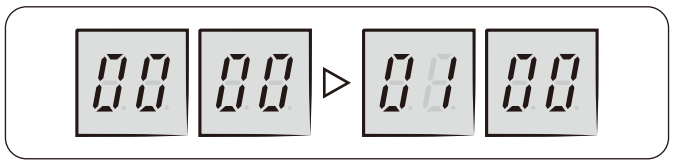
- Press and hold K2 to enter the option setting. (Only available when the operation is stopped)
  - If you enter the option setting, display will show the following.



- Seg 1 and Seg 2 will display the number for selected option.
- Seg 3 and Seg 4 will display the number for set value of the selected option.

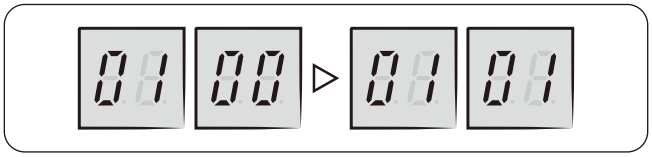
- If you have entered option setting, you can shortly press the K1 switch to adjust the value of the Seg 1, Seg 2 and select the desired option.

Example)



- If you have selected desired option, you can shortly press the K2 switch to adjust the value of the Seg 3, Seg 4 and change the function for the selected option.

Example)



- After selecting the function for options, press and hold the K2 switch for 2 seconds. Edited value of the option will be saved when entire segments blinks and tracking mode begins.

Installation

Option item	Input unit	SEG1	SEG2	SEG3	SEG4	Function
Channel address	Main	0	0	A	U	Automatic setting (Factory default)
				00~15		Manual setting
Snow accumulation prevention control	Main	0	1	0	0	Disabled (Factory default)
				0	1	Enabled
StepforSilence mode	Main	0	2	0	0	Disabled (Factory default)
				0	1	Step1
				0	2	Step2
				0	3	Step3
Typeof Silence mode	Main	0	3	0	0	Automatic Silence mode (Factory default)
				0	1	Manual Silence mode
Temperature unit	Main	0	4	0	0	Celsius (default)
				0	1	Fahrenheit
Not applicable	Main	0	5	0	0	Not applicable
				0	1	Not applicable
Current restriction rate [1)]	Main	0	6	0	0	100% (Factory default)
				0	1	95%
				0	2	90%
				0	3	85%
				0	4	80%
				0	5	75%
				0	6	70%
				0	7	65%
				0	8	60%
				0	9	55%
				1	0	50%
				1	1	100%
Dedicated mode for cooling/ heating	Main	0	7	0	0	Cooling / Heating operation (default)
				0	1	Cooling operation only
				0	2	Heating operation only

- [1)] Current restriction rate : When restriction option is set, cooling and heating performance may decrease.

⚠ CAUTION

- Edited option will not be saved if you do not end the option setting as explained in above instruction.

※ While you are setting the option, you may press and hold the K1 button to reset the value to previous setting.

※ 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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