

SAMSUNG

SINGLE

Technical

Data Book

SINGLE for Europe
(R32, Heat Pump)



Model : AC****N**KG/EU (Indoor Unit), AC***RXADK*G/EU (Outdoor Unit)

History

Version	Modification	Date	Remark
Ver.1.0	Released Single for Europe (R32, HP) TDB	'18. 12. 20	
Ver.2.0	Added 2019 new line up (4Way, 360, Duct, RAC, Console, Ceiling)	'19. 02. 22	
Ver.2.1	Updated the Wind-Free 1Way CST Dimensional Drawing page	'19. 09. 27	
Ver.3.0	Added 2020 new line up (Wind-Free™)	'20. 02. 19	
Ver.3.1	Updated the Temperature and air flow distribution of AC035TNADKG/EU model.	'20. 03. 26	
Ver.4.0	Updated the LSP Duct AC026/035/052/071BNLDKG/EU model.	'22. 06. 16	
Ver.4.1	Updated some error	'24. 02. 21	

Features & Benefits

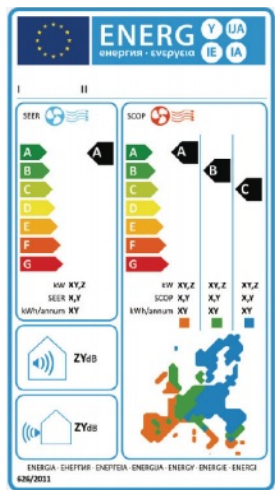
CAC - World-class energy efficiency

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

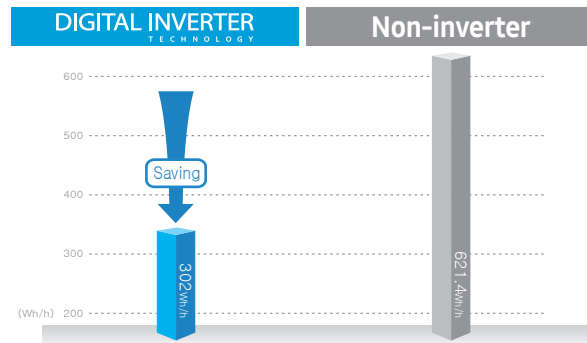
*Table 1: Introduction of revised energy consumption labelling for air conditioners as per EU Directive 2011/626/EU

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 Inefficient units will be gradually withdrawn from the market starting in 2013.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

All types of indoor units are available except console. (the same models only)

Features & Benefits

CAC Single - Superior performance

Stabilize the atmosphere with broad temperature allowance and control

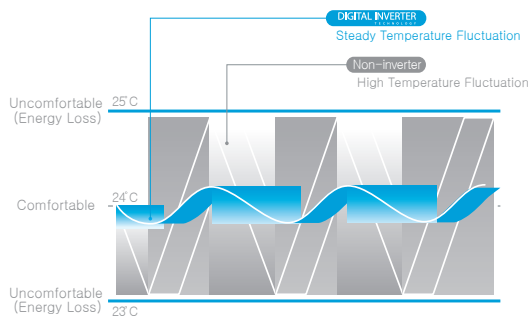
Samsung is dedicated to supporting comfortable living and working environments based on the strength of its technologies. With a single unit, CAC Single delivers reliable comfort and control over multiple areas to ensure a pleasant atmosphere in any climate.

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.



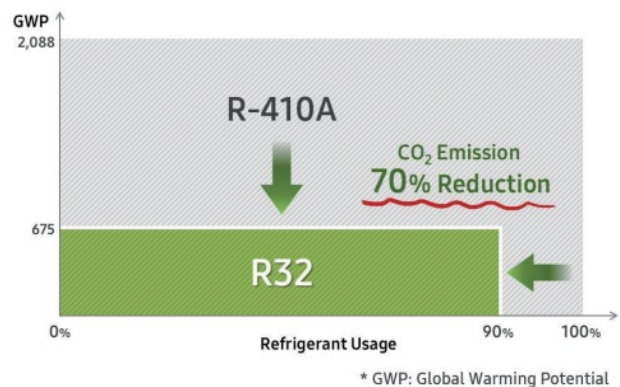
Versatile piping installation

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.



Low CO₂ Emission

Introducing R32 CAC makes it possible to reduce 70% of CO₂ Emission.



Nomenclature

Indoor Unit

Model Name

AC	052	R	N	4	D	K	G	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
-----------	-----

(2) Capacity

x1/10 kW (3 digits)

(3) Version

N	2018
R	2019
T	2020
B	2022

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1 Way Cassette Wind-Free 1Way Cassette
N	4 Way Cassette (600x600) Wind-Free 4 Way Cassette (600x600)
4	4 Way Cassette, 360 Cassette Wind-Free 4 Way Cassette
L	LSP Duct
M	MSP Duct
C	Ceiling
J	Console
A	A3050 (Wall Mounted)
T	MAX (Wall Mounted)
X	Wind-Free™ (Wall Mounted)

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

K	1Φ, 220~240V, 50Hz
----------	--------------------

(8) Mode

G	Heat Pump (R32)
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Nomenclature

Outdoor Unit

Model Name

AC	052	R	X	A	D	K	G	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
----	-----

(5) Product Notation

A,1	Inv+Side+General Temp
-----	-----------------------

(2) Capacity

X1/10 kW (3 digits)

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(3) Version

N	2018
R	2019

(7) Rating Voltage

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

(4) Product Type











































N	Indoor Unit
X	Outdoor Unit

(8) Mode

G	Heat Pump (R32)
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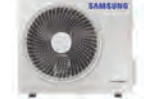






Line-up

Indoor unit

Model	Capacity (kW)						
	2.6	3.5	5.2 (5.0)	7.1	10.0 (9.5)	12.0	13.4
Wind-Free 1Way Cassette							
Wind-Free 4Way Cassette (600 x 600)							
Wind-Free 4Way Cassett							
360 Cassette							
LSP Duct							
MSP Duct							
Wall-mounted							
							
Ceiling							
Console							

Line-up

Outdoor Unit

Model	Capacity (kW)						
	2.6	3.5	5.2 (5.0)	7.1	10.0 (9.5)	12.0	13.4
1Phase							
3Phase							

Contents

Wind-Free 1Way Cassette	10
Wind-Free 4Way Cassette (600x600)	23
Wind-Free 4Way Cassette	43
360 Cassette	71
LSP Duct	101
MSP Duct	124
Wall Mounted Type (Wind-Free™)	161
Wall Mounted Type (A3050)	183
Wall Mounted Type (MAX)	205
Console	219
Ceiling	235
Big Ceiling	249
Outdoor Units	272
Installation	319

Wind-Free 1Way Cassette

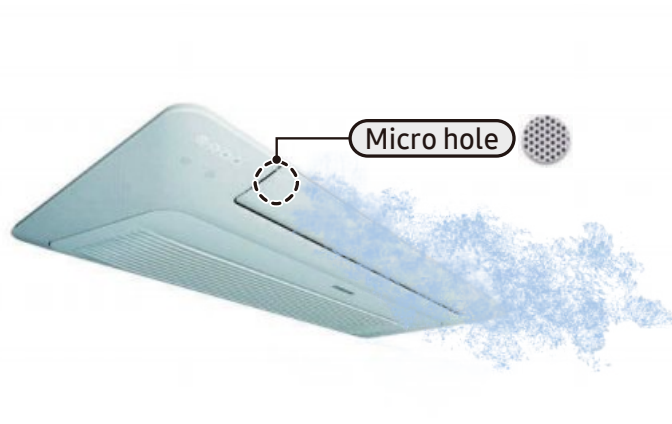
1. Specification	12
2. Summary Table	15
3. Capacity Table	16
4. Dimensional Drawing	17
5. Center of Gravity	18
6. Electrical Wiring Diagram	19
7. Sound Data	20
8. Temperature and airflow distribution	22

Features & Benefits

Wind-Free 1Way Cassette

1. Wind-Free cooling

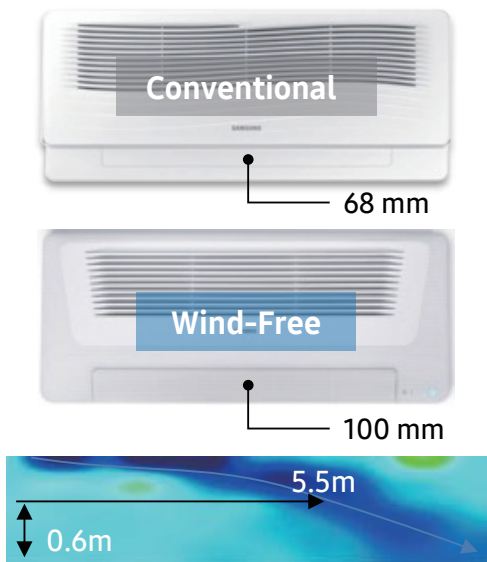
Comfort wind implementation by Wind-Free cooling



※ Wind-Free implementation : Still air by the velocity of flow below 0.15m/s.

2. Big blade

Max. 5.5m Horizontal reach

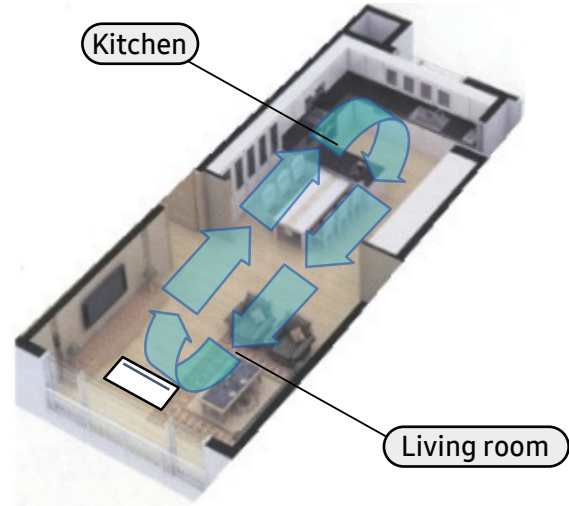


※ Reach : 5.5m (Height 0.6m, Wind speed 0.3m/s)
Conventional product (Samsung) : 3m

※ Based on Wind-Free 1Way 3.5kW

3. Even cooling

Even cooling For spacious space



※ Expand the blade angle from 30° to 80°
Conventional product (Samsung) : 40~80°

1. Specification

Wind-Free 1Way Cassette

Model Name	Indoor Unit			AC026RN1DKG/EU	AC035RN1DKG/EU	
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	
Mode				-	HEAT PUMP	
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.82 / 2.60 / 3.80	0.85 / 3.50 / 4.20	
			Btu/h	2,800 / 8,870 / 12,970	2,900 / 11,940 / 14,330	
		Heating	kW	0.98 / 3.30 / 4.40	1.00 / 4.00 / 5.00	
			Btu/h	3,340 / 11,260 / 15,000	3,410 / 13,650 / 17,060	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.17 / 0.72 / 1.16	0.18 / 1.09 / 1.40	
		Heating	kW	0.20 / 1.01 / 1.45	0.19 / 1.28 / 1.80	
	Current Input (Min/Std/Max)	Cooling	A	1.2 / 3.8 / 5.4	1.6 / 5.3 / 7.5	
		Heating	A	1.4 / 5.0 / 7.0	1.3 / 6.2 / 10.5	
	Current	MCA	A	11.0	11.0	
		MFA	A	12.5	12.5	
Efficiency	EER	Cooling	-	3.61	3.21	
	COP	Heating	-	3.26	3.12	
	SEER (Cooling Energy Grade)		-	6.4 (A++)	6.2 (A++)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.0	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)	
	Gas Pipe	Type		Flare connection	Flare connection	
		Φ, mm (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	Max.	m	5	5
			Elevation	m	20	20
Chargeless			m	15	15	
			m	20	20	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	0.9	0.9	
			tCO ₂ e	0.61	0.61	

1. Specification

Wind-Free 1Way Cassette

Model Name	Indoor Unit			AC026RN1DKG/EU	AC035RN1DKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
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		-	Crossflow Fan	Crossflow Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	7.3 / 6.5 / 5.8	9.0 / 8.2 / 7.2
			l/s	121.6 / 108.3 / 96.6	150 / 136.6 / 120
		Heating (H/M/L)	m ³ /min	8.5 / 7.2 / 6.5	10.0 / 8.4 / 7.3
l/s			141.6 / 120 / 108.3	166.6 / 140 / 121.6	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	27	27
Drain	Drain Pipe		Φ, mm	VP-20(OD26, ID20)	VP-20(OD26, ID20)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	32 / 29 / 26 / 25	35 / 32 / 29 / 28
	Sound Power Level		dB(A)	52	55
External Dimension	Net Weight		kg	9.2	9.2
	Shipping Weight		kg	12.0	12.0
	Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410
	Shipping Dimensions (WxHxD)		mm	1,175 x 231 x 487	1,175 x 231 x 487
Casing	Material		-	ABS	ABS
Indoor Unit Panel (1)	Model Name		-	PC1NWFMAN	PC1NWFMAN
	Type		-	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS
	Color		-	DA White	DA White
	Net Weight		kg	4.3	4.3
	Shipping Weight		kg	6.3	6.3
	Net Dimensions (WxHxD)		mm	1,198 x 35 x 500	1,198 x 35 x 500
	Shipping Dimensions (WxHxD)		mm	1,262 x 122 x 566	1,262 x 122 x 566
Panel (2)	Model Name		-	PC1NWSMAN	PC1NWSMAN
	Type		-	Fluid Type	Fluid Type
	Material		-	ABS	ABS
	Color		-	White	White
	Net Weight		kg	5.5	5.5
	Shipping Weight		kg	7.2	7.2
	Net Dimensions (WxHxD)		mm	1,198 x 25 x 500	1,198 x 25 x 500
	Shipping Dimensions (WxHxD)		mm	1,275 x 152 x 580	1,275 x 152 x 580
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E
	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	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
		Max. lifting Height / Displacement	mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
	Virus Doctor		-	-	-

1. Specification

Wind-Free 1Way Cassette

	Model Name		Indoor Unit	AC026RN1DKG/EU	AC035RN1DKG/EU	
			Outdoor Unit	AC026RXADKG/EU	AC035RXADKG/EU	
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		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB9AK5090FER	UB9AK5090FER
		Type		-	Single BLDC	Single BLDC
		Output		kW	0.86	0.86
		Oil	Type	-	POE	POE
			Initial charge	cc	320	320
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m ³ /min	30	30
	l/s			500	500	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48
			Heating	dB(A)	47	48
		Sound Power Level		dB(A)	59	61
External Dimension	Net Weight		kg	32.5	32.5	
	Shipping Weight		kg	35.5	35.5	
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371	
Casing	Material	Body	-	EGL Steel Plate	EGL Steel Plate	
Operating Temp. Range	Cooling		°C	-15 ~ 46	-15 ~ 46	
	Heating		°C	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wind-Free 1Way 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)					
AC026RN1DKG/EU	9.5	Max.	3.80	4.40	High	7.3	32	54
		Std.	2.60	3.30	Mid	6.5	29	
		Min.	0.82	0.98	Low	5.8	26	
AC035RN1DKG/EU	9.5	Max.	4.20	5.00	High	9.0	35	57
		Std.	3.50	4.00	Mid	8.2	32	
		Min.	0.85	1.00	Low	7.2	29	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Maximum Input Current [A]			Power Supply		
Indoor Unit	Outdoor Unit	Rated	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA	MFA	
		Hz	Volts	Min.	Max.	Cooling					Heating
AC026RN1DKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10	10	1.0	11.0	11.0	12.5
AC035RN1DKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	1.0	11.0	11.0	12.5

NOTE

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

3. Capacity Table

Wind-Free 1Way Cassette

(1) AC026RN1DKG/EU+AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.5	1.9	0.52	2.7	2.0	0.53	2.8	2.0	0.54	2.9	2.1	0.55	2.9	2.1	0.55	3.1	2.1	0.56	3.2	2.0	0.57
21	2.4	1.8	0.54	2.5	1.9	0.55	2.6	1.9	0.56	2.7	2.0	0.58	2.8	2.0	0.58	2.9	2.0	0.59	3.1	1.9	0.60
35	2.3	1.7	0.68	2.4	1.8	0.69	2.5	1.8	0.71	2.6	1.9	0.72	2.7	1.9	0.73	2.8	1.9	0.73	2.9	1.8	0.75
46	2.0	1.7	0.61	2.1	1.7	0.62	2.1	1.8	0.64	2.2	1.9	0.65	2.3	1.8	0.65	2.4	1.8	0.66	2.5	1.8	0.67

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		
-20	2.3	1.34	2.3	1.33	2.3	1.31	2.3	1.30	2.2	1.29	2.2	1.27		
-15	2.9	1.55	2.9	1.53	2.9	1.52	2.8	1.50	2.8	1.48	2.8	1.47		
-5	3.3	1.44	3.3	1.43	3.2	1.41	3.2	1.40	3.2	1.39	3.1	1.37		
0	3.4	1.24	3.4	1.22	3.4	1.21	3.3	1.20	3.3	1.19	3.3	1.18		
7	3.4	1.03	3.3	1.02	3.3	1.01	3.3	1.00	3.2	0.99	3.2	0.98		
24	4.4	1.18	4.3	1.17	4.3	1.16	4.2	1.15	4.2	1.14	4.2	1.13		

(2) AC035RN1DKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.5	0.78	3.6	2.6	0.80	3.7	2.7	0.81	3.9	2.8	0.83	3.9	2.7	0.84	4.1	2.7	0.84	4.3	2.6	0.86
21	3.3	2.4	0.82	3.4	2.5	0.84	3.6	2.5	0.85	3.7	2.6	0.87	3.7	2.6	0.88	3.9	2.6	0.89	4.1	2.5	0.91
35	3.1	2.3	1.03	3.3	2.4	1.05	3.4	2.4	1.07	3.5	2.5	1.09	3.6	2.5	1.10	3.7	2.5	1.11	3.9	2.4	1.13
46	2.6	2.1	0.92	2.8	2.2	0.94	2.9	2.3	0.96	3.0	2.3	0.98	3.0	2.3	0.99	3.2	2.3	1.00	3.3	2.3	1.02

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		
-20	2.8	1.70	2.8	1.68	2.8	1.66	2.7	1.65	2.7	1.63	2.7	1.61		
-15	3.5	1.96	3.5	1.94	3.5	1.92	3.4	1.90	3.4	1.88	3.4	1.86		
-5	4.0	1.83	4.0	1.81	3.9	1.79	3.9	1.77	3.8	1.76	3.8	1.74		
0	4.2	1.57	4.1	1.55	4.1	1.54	4.0	1.52	4.0	1.51	4.0	1.49		
7	4.1	1.31	4.0	1.29	4.0	1.28	4.0	1.27	3.9	1.25	3.9	1.24		
24	5.3	1.50	5.3	1.49	5.2	1.47	5.1	1.46	5.1	1.44	5.0	1.43		

NOTE

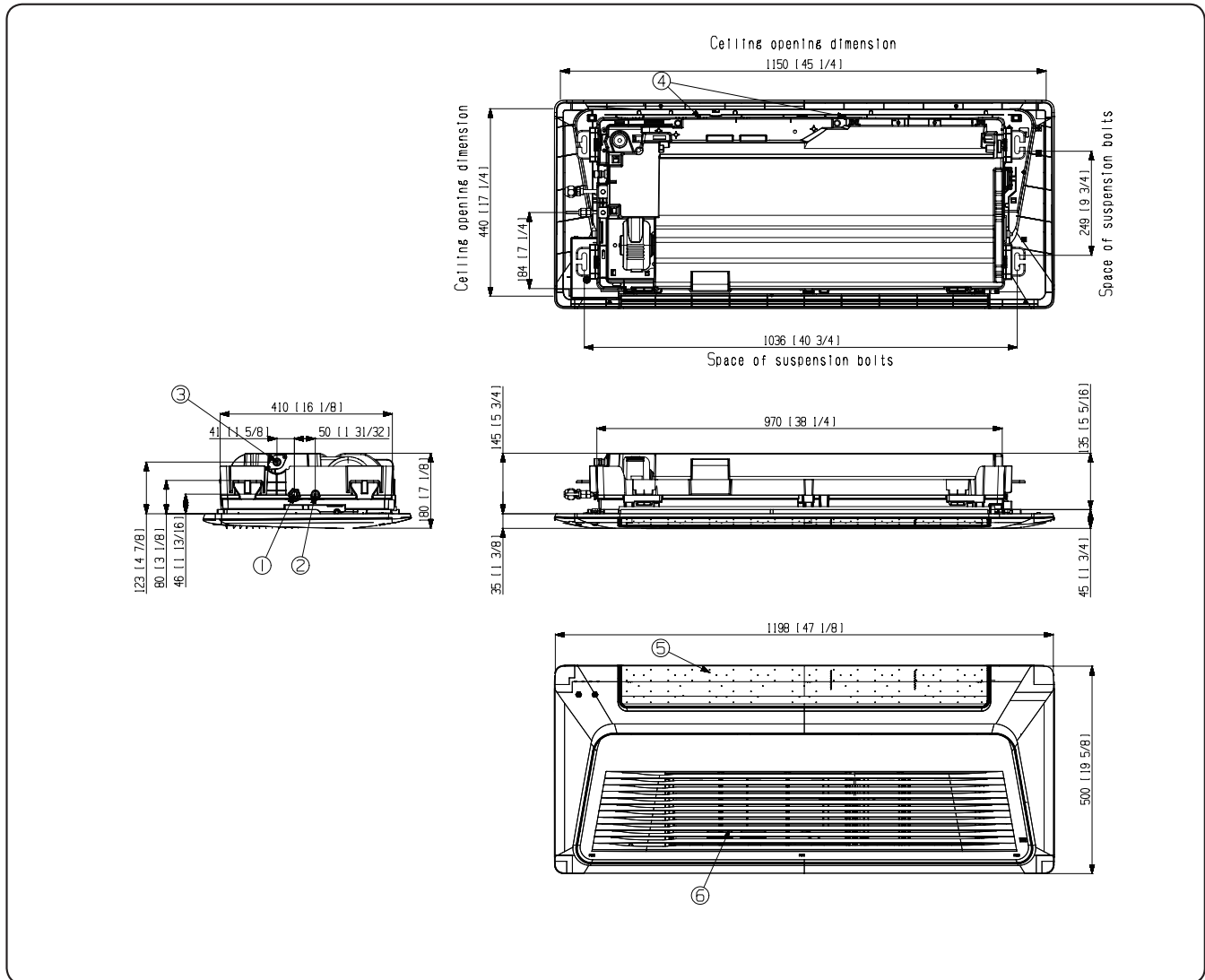
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wind-Free 1Way Cassette

AC026/035RN1DKG/EU

Units : mm [inches]



No.	Name	Description
1	Gas pipe connection	Φ 9.52 (3/8)
2	Liquid pipe connection	Φ 6.35 (1/4)
3	Drain pipe connection	VP-20 (OD26, ID20)
4	Power supply & Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-

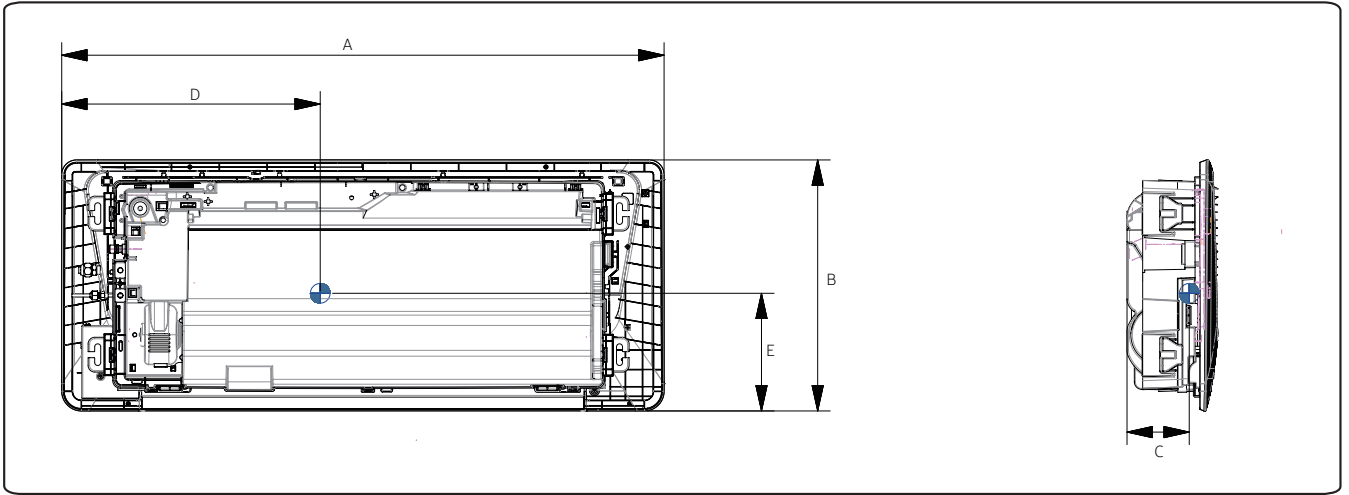
NOTE

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

5. Center of Gravity

Wind-Free 1Way Cassette

Units : mm [inches]

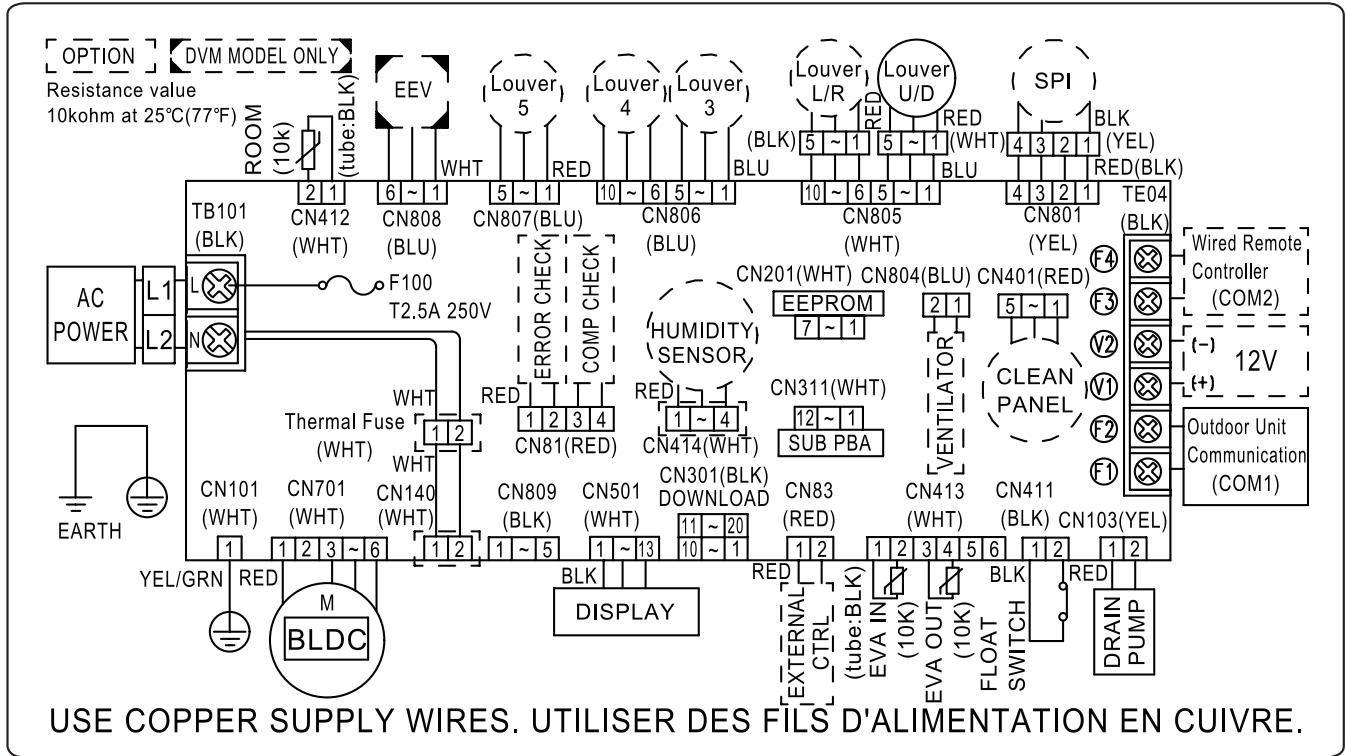


Model	A	B	C	D	E
AC026/035RN1DKG/EU	1,198 [47-3/16]	500 [19-11/16]	108 [4-1/2]	555 [21-7/8]	200 [7-7/8]

6. Electrical Wiring Diagram

Wind-Free 1Way Cassette

AC026/035RN1DKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
FLOAT SWITCH	Check the FLOATING S/W	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

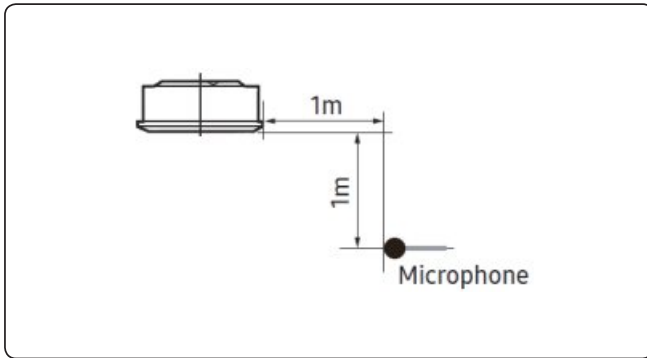
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
 blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective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

7. Sound Data

Wind-Free 1Way Cassette

Sound Pressure level

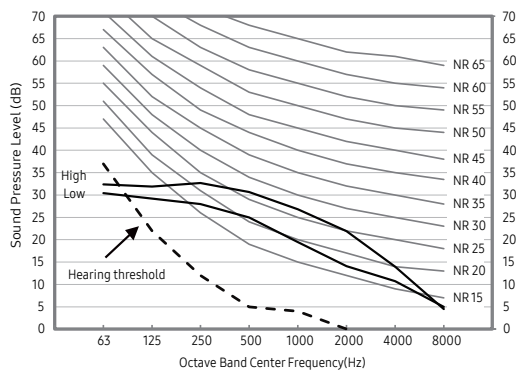
Unit: dB(A)



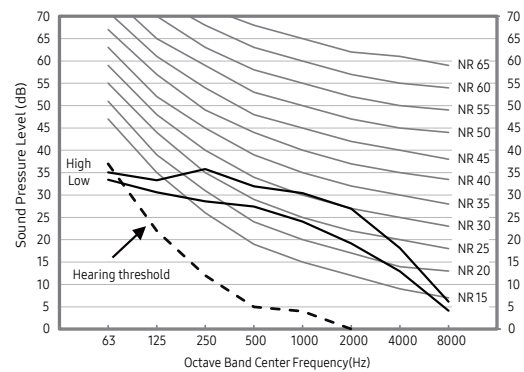
Model	HIGH	MID	LOW
AC026RN1DKG/EU	32	29	26
AC035RN1DKG/EU	35	32	29

- NC Curve

1) AC026RN1DKG/EU



2) AC035RN1DKG/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

Wind-Free 1Way Cassette

Sound Power level

NOTE

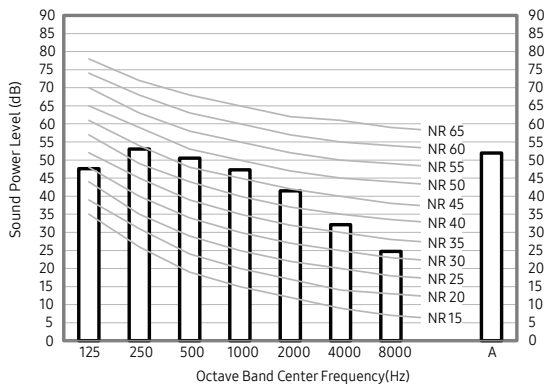
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

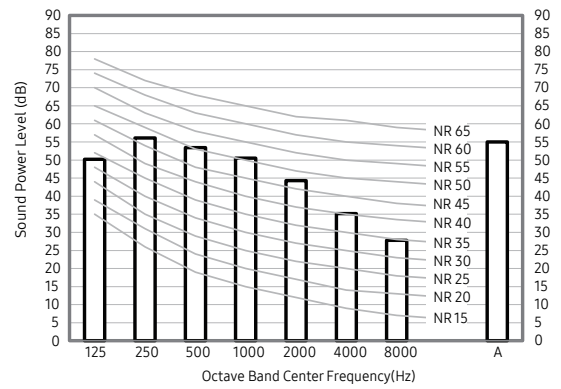
Model	Power
AC026RN1DKG/EU	52
AC035RN1DKG/EU	55

NR Curve

1) AC026RN1DKG/EU



2) AC035RN1DKG/EU



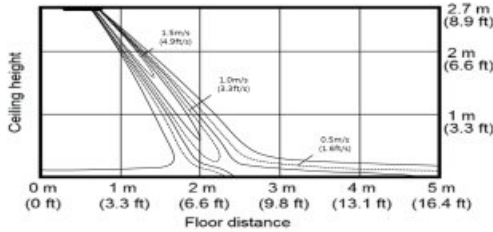
8. Temperature and airflow distribution

Wind-Free 1Way Cassette

AC026RN1DKG/EU

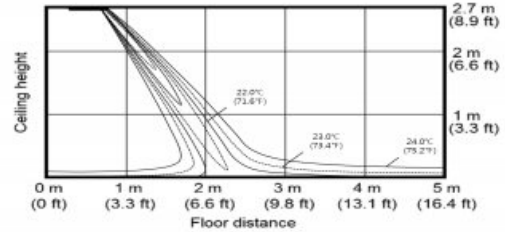
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



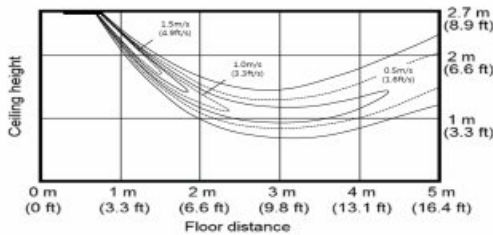
- Cooling temperature distribution

(Discharge angle : 60 degree)



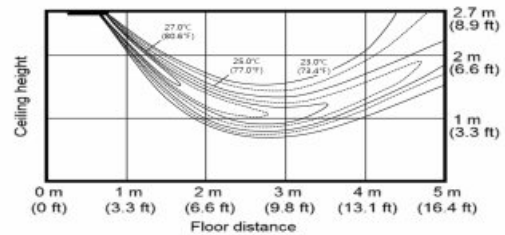
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

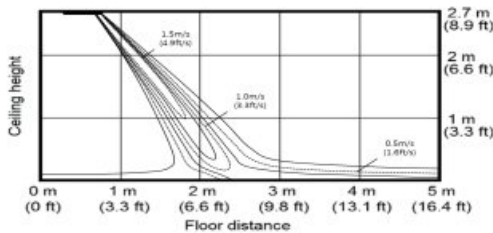
(Discharge angle : 60 degree)



AC035RN1DKG/EU

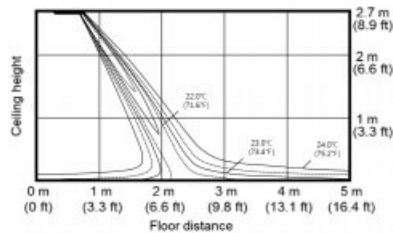
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



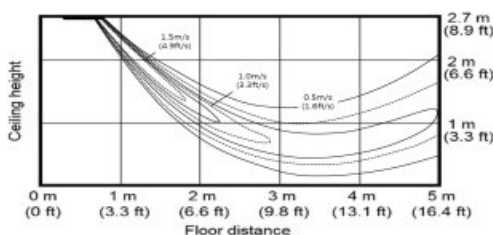
- Cooling temperature distribution

(Discharge angle : 60 degree)



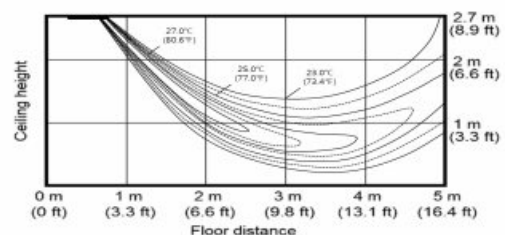
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



Wind-Free 4Way Cassette (600x600)

1. Specification	25
2. Summary Table	31
3. Capacity Table	32
4. Dimensional Drawing	36
5. Center of Gravity	37
6. Electrical Wiring Diagram	38
7. Sound Data	39
8. Temperature and air flow distribution	41

Features & Benefits

Wind-Free 4Way Cassette (600x600)

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

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



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

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

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

Refine the interior with an elegant, compact design

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

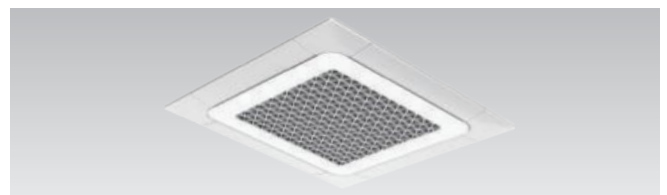
Attractive panel and display

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



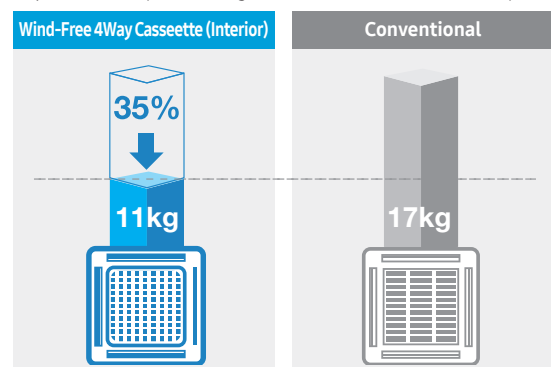
Ultra-compact size

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



Light, robust design

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



*Based on 3.5kW

1. Specification

Wind-Free 4Way Cassette (600x600)

Model Name	Indoor Unit			AC026RNNDKG/EU	AC035RNNDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.87 / 2.60 / 4.10	0.88 / 3.50 / 4.50
			Btu/h	2,970 / 8,870 / 13,990	3,000 / 11,940 / 15,350
		Heating	kW	0.98 / 3.40 / 4.10	1.00 / 4.00 / 4.80
			Btu/h	3,340 / 11,600 / 13,990	3,410 / 13,650 / 16,380
Power	Power Input (Min/Std/Max)	Cooling	kW	0.16 / 0.67 / 1.20	0.18 / 1.03 / 1.40
		Heating	kW	0.20 / 0.92 / 1.45	0.19 / 1.20 / 1.80
	Current Input (Min/Std/Max)	Cooling	A	1.3 / 3.5 / 5.5	1.4 / 5.0 / 6.0
		Heating	A	1.3 / 4.6 / 7.0	1.3 / 5.7 / 10.5
	Current	MCA	A	11.0	11.0
		MFA	A	12.5	12.5
Efficiency	EER	Cooling	-	3.88	3.40
	COP	Heating	-	3.69	3.33
	SEER (Cooling Energy Grade)		-	7.1 (A++)	7.0 (A++)
	SCOP (Heating Energy Grade)		-	4.3 (A+)	4.3 (A+)
	Pdesignh		kW	2.1	2.1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (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.	20	20
Elevation			15	15	
Chargeless			20	20	
Wiring connections	Communication	Min.	mm ²	0.75	
		Remark	-	F1, F2	
Refrigerant	Type		-	R32	R32
	Factory Charging	kg	0.9	0.9	
		tCO ₂ e	0.61	0.61	
Power Supply				Ø, #, V, Hz	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 Fan	Turbo Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	8.0 / 7.0 / 6.0	9.2 / 8.0 / 6.4
			l/s	133.3 / 116.6 / 100	153.3 / 133.3 / 106.6
		Heating (H/M/L)	m ³ /min	10.0 / 9.0 / 8.0	10.4 / 9.0 / 7.8
l/s			166.6 / 150 / 133.3	173.3 / 150 / 130	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	65	65

1. Specification

Wind-Free 4Way Cassette (600x600)

	Indoor Unit			AC026RNNDKG/EU	AC035RNNDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	31 / 28 / 25	34 / 30 / 25
Sound	Sound Power Level		dB(A)	48	50
	Net Weight		kg	11.5	11.5
External Dimension	Shipping Weight		kg	14.0	14.0
	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
	Material		-	Polypropylene	Polypropylene
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-EH03E	AR-EH03E
	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	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	-

1. Specification

Wind-Free 4Way Cassette (600x600)

Model Name	Indoor Unit		AC026RNNDKG/EU	AC035RNNDKG/EU
	Outdoor Unit		AC026RXADKG/EU	AC035RXADKG/EU
Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		-	UB9AK5090FER
	Type		-	Single BLDC
	Output		kW	0.86
	Oil	Type	-	POE
Initial charge		cc	320	
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate			m ³ /min
		l/s	500	
Fan Motor	Type		-	BLDC Motor
	Output		W x n	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	46
		Heating	dB(A)	47
	Sound Power Level		dB(A)	59
External Dimension	Net Weight		kg	32.5
	Shipping Weight		kg	35.5
	Net Dimensions (WxHxD)		mm	790 x 548 x 285
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371
Casing	Material	Body	-	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 46
			°C	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

Wind-Free 4Way Cassette (600x600)

	Model Name		Indoor Unit	AC052RNNDKG/EU	AC071RNNDKG/EU	
			Outdoor Unit	AC052RXADKG/EU	AC071RXADKG/EU	
System	Mode		-	HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.30 / 5.00 / 6.20	1.50 / 6.80 / 8.30
				Btu/h	4,430 / 17,060 / 21,150	5,120 / 23,200 / 28,320
		Heating		kW	1.30 / 5.50 / 7.50	1.90 / 7.50 / 9.00
				Btu/h	4,430 / 18,760 / 25,590	6,480 / 25,590 / 30,710
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.31 / 1.53 / 2.10	0.35 / 2.75 / 3.60
			Heating	kW	0.35 / 1.52 / 2.40	0.35 / 2.80 / 3.95
		Current Input (Min/Std/Max)	Cooling	A	2.6 / 7.0 / 9.5	2.0 / 12.0 / 16.0
			Heating	A	2.9 / 7.0 / 11.0	2.0 / 12.0 / 17.0
		Current	MCA	A	17.5	17.5
			MFA	A	20.6	20.6
	Efficiency	EER	Cooling	-	3.27	2.47
		COP	Heating	-	3.62	2.68
		SEER (Cooling Energy Grade)		-	6.7 (A++)	6.1 (A++)
		SCOP (Heating Energy Grade)		-	4.2 (A+)	3.8 (A)
		Pdesignh		kW	2.4	4.0
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (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	Max.	m	5	5
			Elevation	m	30	50
			Chargeless	m	20	30
	Min.		m	10	15	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	1.2	1.7	
			tCO ₂ e	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		-	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Turbo Fan	Turbo Fan
		Quantity		EA	1	1
		Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.5 / 9.5 / 8.5	11.5 / 10.5 / 9.5
				l/s	175 / 158.3 / 141.6	191.6 / 175 / 158.3
			Heating (H/M/L)	m ³ /min	10.5 / 9.5 / 8.5	11.5 / 10.5 / 9.5
	l/s			175 / 158.3 / 141.6	191.6 / 175 / 158.3	
	Fan Motor	Type		-	BLDC	BLDC
Output		W x n	65	65		

1. Specification

Wind-Free 4Way Cassette (600x600)

Model Name	Indoor Unit			AC052RNNDKG/EU	AC071RNNDKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	39 / 34 / 29	42 / 39 / 36
	Sound Power Level		dB(A)	56	58
External Dimension	Net Weight		kg	12.0	12.0
	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		-	Polypropylene	Polypropylene
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-EH03E	AR-EH03E
	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	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	Option

1. Specification

Wind-Free 4Way Cassette (600x600)

Model Name	Indoor Unit		AC052RNNDKG/EU	AC071RNNDKG/EU
	Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name			UB9TK3150FE4
	Type		-	Twin BLDC
	Output		kW	1.51
	Oil	Type	-	POE
Initial charge		cc	500	
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate			m ³ /min
		l/s	667	
Fan Motor	Type		-	BLDC Motor
	Output		W x n	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48
		Heating	dB(A)	48
	Sound Power Level		dB(A)	62
External Dimension	Net Weight		kg	43.5
	Shipping Weight		kg	46.5
	Net Dimensions (WxHxD)		mm	880 x 638 x 310
	Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413
Casing	Material	Body	-	EGL Steel Plate
				EGL Steel Plate
Operating Temp. Range	Cooling		°C	-15 ~ 50
	Heating		°C	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wind-Free 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)				
AC026RNNDKG/EU	11.4	Max.	4.10	4.10	High	8.0	31	48
		Std.	2.60	3.40	Mid	7.0	28	
		Min.	0.87	0.98	Low	6.0	25	
AC035RNNDKG/EU	11.4	Max.	4.50	4.80	High	9.2	34	50
		Std.	3.50	4.00	Mid	8.0	30	
		Min.	0.88	1.00	Low	6.4	25	
AC052RNNDKG/EU	11.6	Max.	6.20	7.50	High	10.5	39	56
		Std.	5.00	5.50	Mid	9.5	34	
		Min.	1.30	1.30	Low	8.5	29	
AC071RNNDKG/EU	11.8	Max.	8.30	9.00	High	11.5	42	58
		Std.	6.80	7.50	Mid	10.5	39	
		Min.	1.50	1.90	Low	9.5	36	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)	
			Volts	Min.	Max.	Cooling					Heating
AC026RNNDKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10	10	1.0	11.0	11.0	12.5
AC035RNNDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	1.0	11.0	11.0	12.5
AC052RNNDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC071RNNDKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette (600x600)

(1) AC026RNNDKG/EU+AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.5	2.1	0.48	2.7	2.2	0.49	2.8	2.2	0.50	2.9	2.3	0.51	2.9	2.3	0.51	3.1	2.3	0.52	3.2	2.2	0.53
21	2.4	2.0	0.50	2.5	2.1	0.51	2.6	2.1	0.53	2.7	2.2	0.54	2.8	2.2	0.54	2.9	2.2	0.55	3.1	2.1	0.56
35	2.3	1.9	0.63	2.4	2.0	0.64	2.5	2.0	0.66	2.6	2.1	0.67	2.7	2.1	0.68	2.8	2.1	0.68	2.9	2.0	0.70
46	2.0	1.8	0.57	2.1	1.8	0.58	2.1	1.9	0.59	2.2	1.9	0.60	2.3	1.9	0.61	2.4	1.9	0.62	2.5	1.9	0.63

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.4	1.22	2.4	1.21	2.3	1.20	2.3	1.18	2.3	1.17	2.3	1.16
-15	3.0	1.41	3.0	1.39	3.0	1.38	2.9	1.37	2.9	1.35	2.9	1.34
-5	3.4	1.31	3.4	1.30	3.3	1.29	3.3	1.28	3.3	1.26	3.2	1.25
0	3.5	1.13	3.5	1.12	3.5	1.10	3.4	1.09	3.4	1.08	3.4	1.07
7	3.5	0.94	3.4	0.93	3.4	0.92	3.4	0.91	3.3	0.90	3.3	0.89
24	4.5	1.08	4.5	1.07	4.4	1.06	4.4	1.05	4.3	1.04	4.3	1.03

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette (600x600)

(2) AC035RNNDKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.6	0.74	3.6	2.7	0.75	3.7	2.8	0.77	3.9	2.9	0.78	3.9	2.8	0.79	4.1	2.8	0.80	4.3	2.8	0.81
21	3.3	2.5	0.78	3.4	2.6	0.79	3.6	2.6	0.81	3.7	2.7	0.82	3.7	2.7	0.83	3.9	2.7	0.84	4.1	2.6	0.86
35	3.1	2.4	0.97	3.3	2.4	0.99	3.4	2.5	1.01	3.5	2.6	1.03	3.6	2.6	1.04	3.7	2.5	1.05	3.9	2.5	1.07
46	2.6	2.3	0.87	2.8	2.3	0.89	2.9	2.4	0.91	3.0	2.5	0.93	3.0	2.4	0.94	3.2	2.4	0.95	3.3	2.4	0.96

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.59	2.8	1.58	2.8	1.56	2.7	1.54	2.7	1.53	2.7	1.51
-15	3.5	1.84	3.5	1.82	3.5	1.80	3.4	1.78	3.4	1.76	3.4	1.75
-5	4.0	1.71	4.0	1.70	3.9	1.68	3.9	1.66	3.8	1.65	3.8	1.63
0	4.2	1.47	4.1	1.45	4.1	1.44	4.0	1.43	4.0	1.41	4.0	1.40
7	4.1	1.22	4.0	1.21	4.0	1.20	4.0	1.19	3.9	1.18	3.9	1.16
24	5.3	1.41	5.3	1.39	5.2	1.38	5.1	1.37	5.1	1.35	5.0	1.34

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette (600x600)

(3) AC052RNNDKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.6	1.09	5.1	3.7	1.12	5.3	3.8	1.14	5.5	4.0	1.16	5.6	3.9	1.17	5.9	3.9	1.19	6.2	3.8	1.21
21	4.6	3.4	1.15	4.9	3.6	1.18	5.1	3.7	1.20	5.3	3.8	1.22	5.4	3.7	1.24	5.6	3.7	1.25	5.9	3.6	1.27
35	4.4	3.3	1.44	4.7	3.4	1.47	4.9	3.5	1.50	5.0	3.6	1.53	5.1	3.6	1.55	5.4	3.5	1.56	5.6	3.5	1.59
46	3.8	3.1	1.30	4.0	3.2	1.32	4.1	3.3	1.35	4.3	3.4	1.38	4.3	3.3	1.39	4.6	3.3	1.40	4.8	3.2	1.43
50	2.9	2.4	1.15	3.0	2.5	1.18	3.2	2.6	1.20	3.3	2.7	1.22	3.3	2.6	1.24	3.5	2.6	1.25	3.7	2.6	1.27

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	3.9	2.02	3.8	2.00	3.8	1.98	3.8	1.96	3.7	1.94	3.7	1.92
-15	4.9	2.33	4.8	2.30	4.8	2.28	4.7	2.26	4.7	2.23	4.6	2.21
-5	5.5	2.17	5.4	2.15	5.4	2.13	5.3	2.11	5.3	2.09	5.2	2.06
0	5.7	1.86	5.7	1.84	5.6	1.82	5.6	1.81	5.5	1.79	5.4	1.77
7	5.6	1.55	5.6	1.54	5.5	1.52	5.4	1.50	5.4	1.49	5.3	1.47
24	7.3	1.78	7.2	1.77	7.2	1.75	7.1	1.73	7.0	1.71	6.9	1.70

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette (600x600)

(4) AC071RNNDKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.6	4.5	1.97	7.0	4.7	2.01	7.3	4.8	2.05	7.5	5.0	2.09	7.6	4.9	2.11	8.0	4.9	2.13	8.4	4.8	2.17
21	6.3	4.3	2.07	6.6	4.4	2.11	6.9	4.6	2.16	7.1	4.7	2.20	7.3	4.7	2.22	7.6	4.6	2.24	8.0	4.5	2.29
35	6.0	4.1	2.59	6.3	4.2	2.64	6.6	4.4	2.70	6.8	4.5	2.75	6.9	4.5	2.78	7.3	4.4	2.81	7.6	4.3	2.86
46	5.1	3.9	2.33	5.4	4.0	2.38	5.6	4.2	2.43	5.8	4.3	2.48	5.9	4.2	2.50	6.2	4.2	2.52	6.5	4.1	2.57
50	3.9	3.1	2.07	4.1	3.2	2.11	4.3	3.3	2.16	4.4	3.4	2.20	4.5	3.4	2.22	4.7	3.3	2.24	5.0	3.3	2.29

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.3	3.71	5.2	3.68	5.2	3.64	5.1	3.60	5.1	3.57	5.0	3.53
-15	6.7	4.28	6.6	4.24	6.5	4.20	6.5	4.16	6.4	4.12	6.3	4.08
-5	7.5	4.00	7.4	3.96	7.4	3.92	7.3	3.88	7.2	3.84	7.1	3.80
0	7.8	3.43	7.7	3.39	7.7	3.36	7.6	3.33	7.5	3.29	7.4	3.26
7	7.7	2.86	7.6	2.83	7.5	2.80	7.4	2.77	7.4	2.74	7.3	2.72
24	9.9	3.28	9.8	3.25	9.8	3.22	9.7	3.19	9.6	3.16	9.5	3.12

NOTE

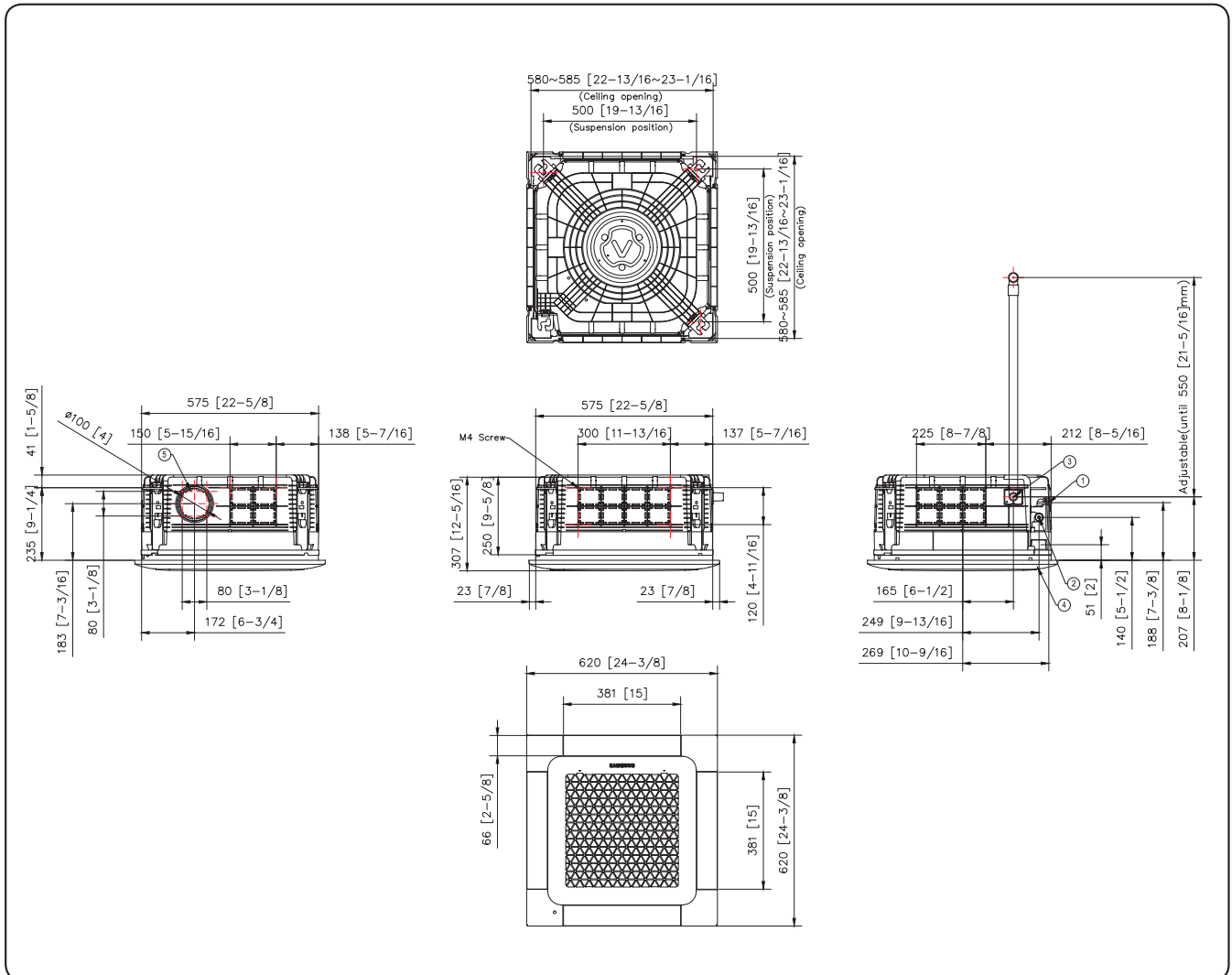
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wind-Free 4Way Cassette (600x600)

AC026/035/052/071RNNDKG/EU

Units : mm [inches]



No.	Name	Description		
		AC026/035RNNDKG/EU	AC052RNNDKG/EU	AC071RNNDKG/EU
1	Liquid pipe connection	Φ6.35(1/4)		
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(3/8)
3	Drain pipe connection	VP-25(OD32, ID25)		
4	Power supply & Communication wiring conduit			
5	Sub duct connection	Use M4 Screw		
6	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw		

NOTE

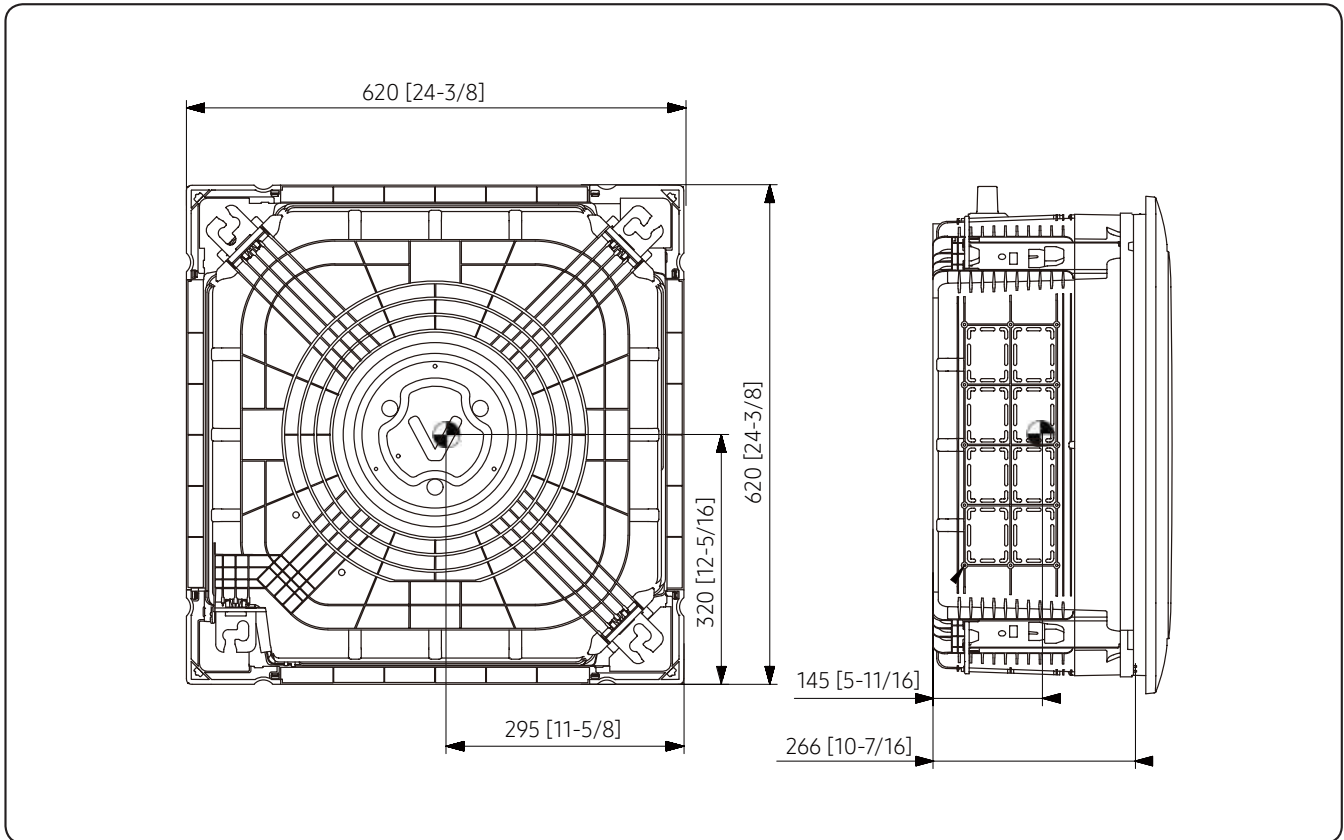
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)

5. Center of Gravity

Wind-Free 4Way Cassette (600x600)

AC026/035/052/071RNNDKG/EU

Units : mm [inches]

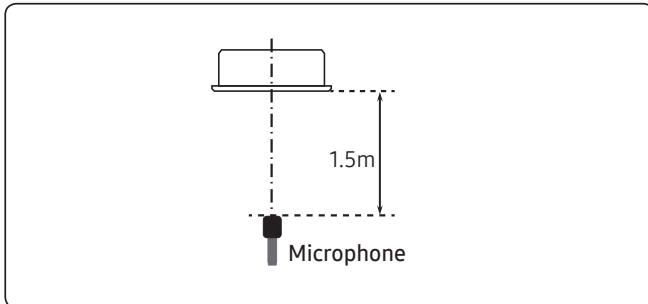


7. Sound Data

Wind-Free 4Way Cassette (600x600)

Sound Pressure level

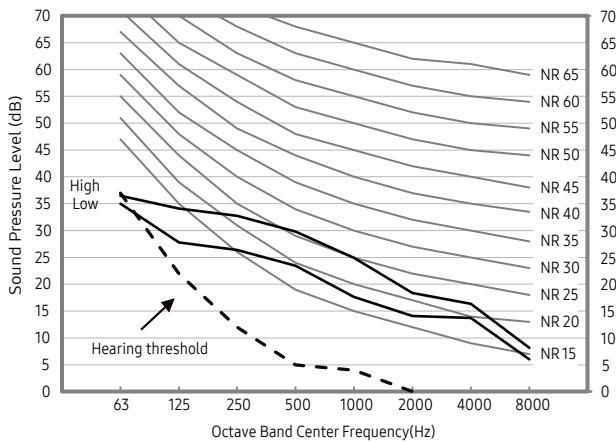
Unit: dB(A)



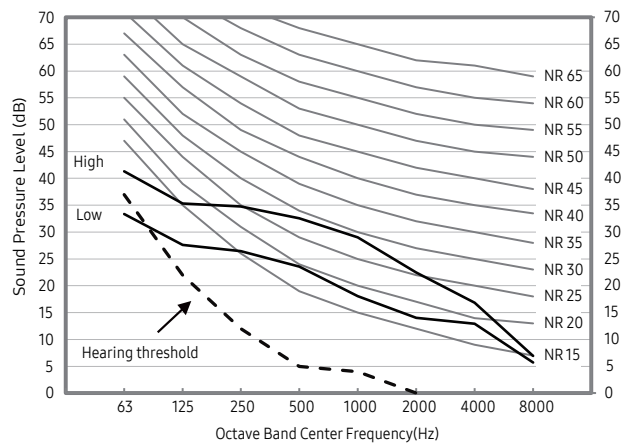
Model	HIGH	MID	LOW
AC026RNNDKG/EU	31	28	25
AC035RNNDKG/EU	34	30	25
AC052RNNDKG/EU	39	34	29
AC071RNNDKG/EU	42	40	36

- NR Curve

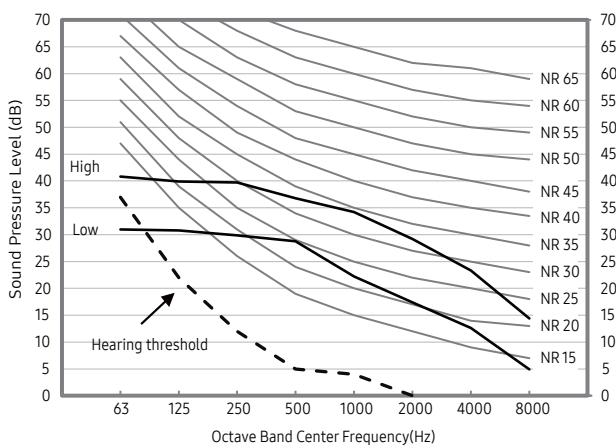
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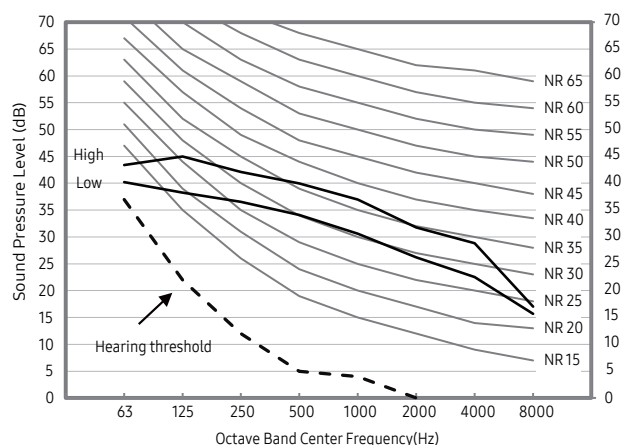
2) AC035RNNDKG/EU



3) AC052RNNDKG/EU



4) AC071RNNDKG/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

Wind-Free 4Way Cassette (600x600)

Sound Power level

NOTE

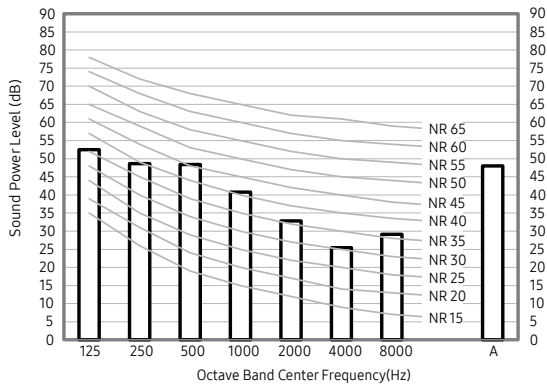
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

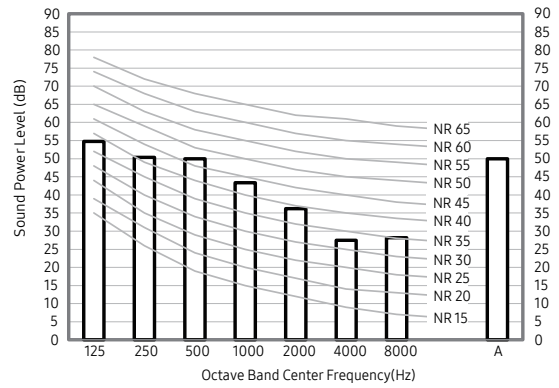
Model	Power
AC026RNNDKG/EU	48
AC035RNNDKG/EU	50
AC052RNNDKG/EU	56
AC071RNNDKG/EU	58

• NR Curve

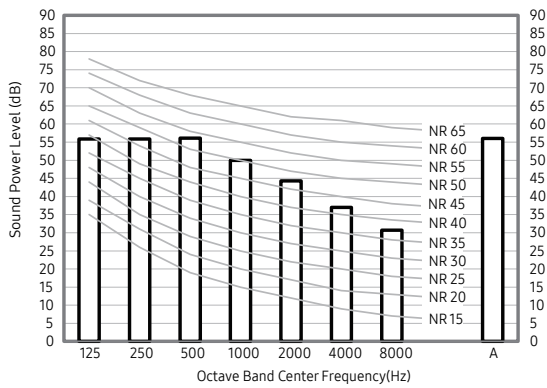
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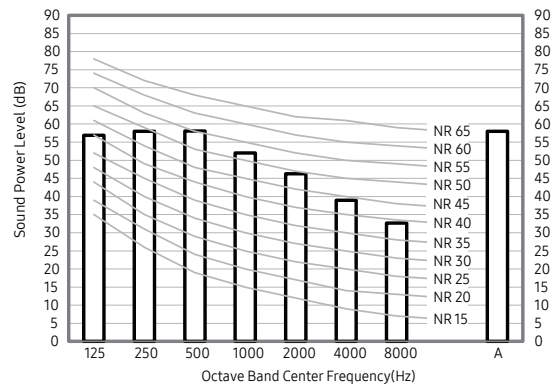
2) AC035RNNDKG/EU



3) AC052RNNDKG/EU



4) AC071RNNDKG/EU

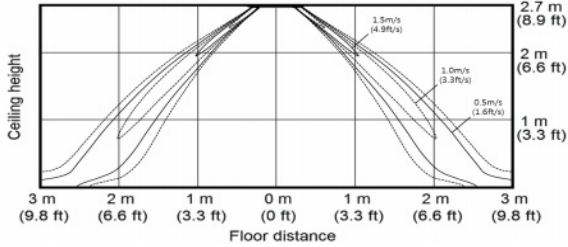


8. Temperature and air flow distribution

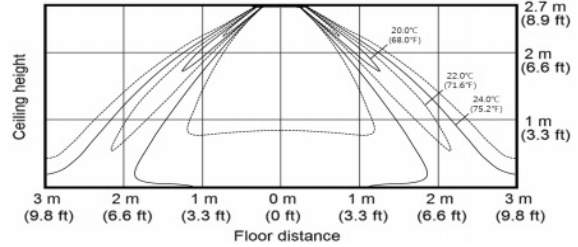
Wind-Free 4Way Cassette (600x600)

AC026RNNDKG/EU

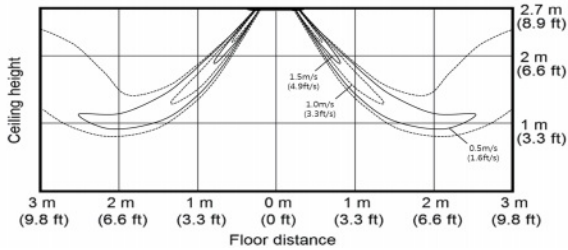
- Cooling Air Velocity distribution
(Discharge angle : 41 degree)



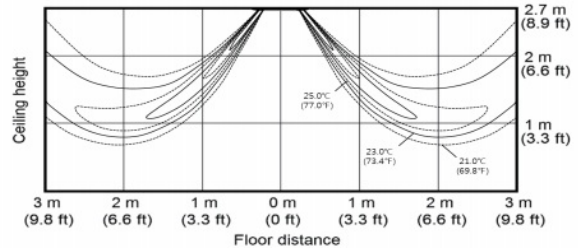
- Cooling temperature distribution
(Discharge angle : 41 degree)



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

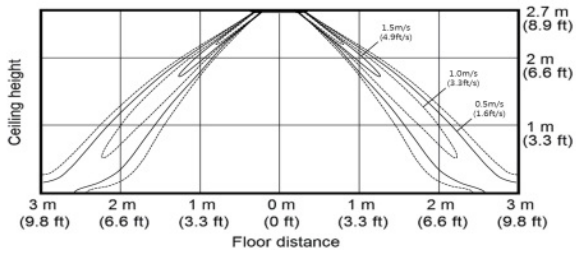


- Heating temperature distribution
(Discharge angle : 56 degree)

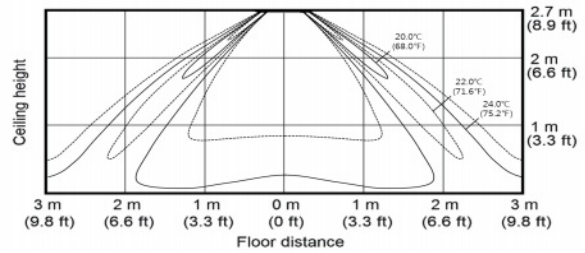


AC035RNNDKG/EU

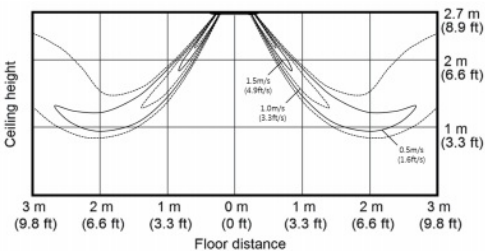
- Cooling Air Velocity distribution
(Discharge angle : 41 degree)



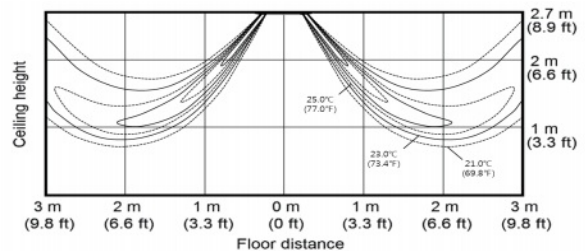
- Cooling temperature distribution
(Discharge angle : 41 degree)



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



- Heating temperature distribution
(Discharge angle : 56 degree)



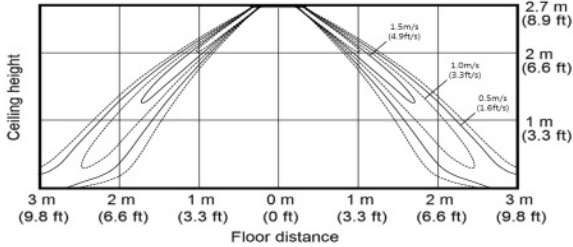
8. Temperature and air flow distribution

Wind-Free 4Way Cassette (600x600)

AC052RNNDKG/EU

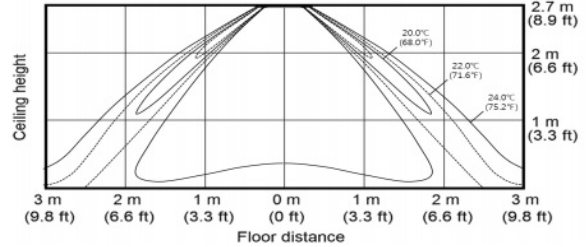
- Cooling Air Velocity distribution

(Discharge angle : 41 degree)



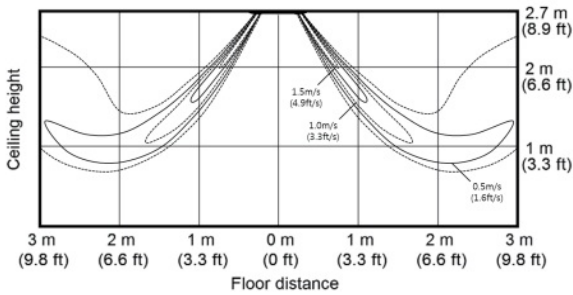
- Cooling temperature distribution

(Discharge angle : 41 degree)



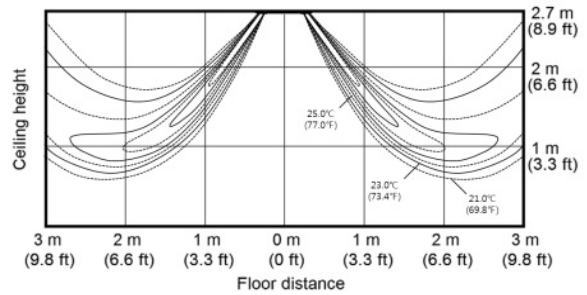
- Heating Air Velocity distribution

(Discharge angle : 56 degree)



- Heating temperature distribution

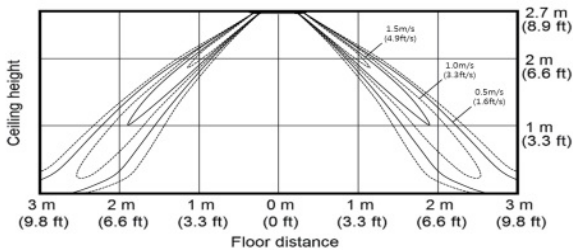
(Discharge angle : 56 degree)



AC071RNNDKG/EU

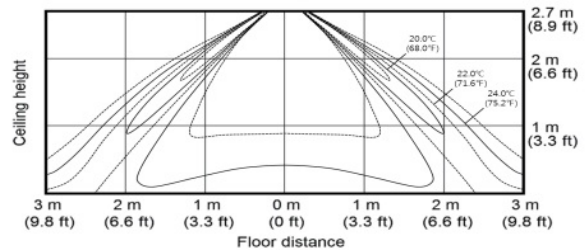
- Cooling Air Velocity distribution

(Discharge angle : 41 degree)



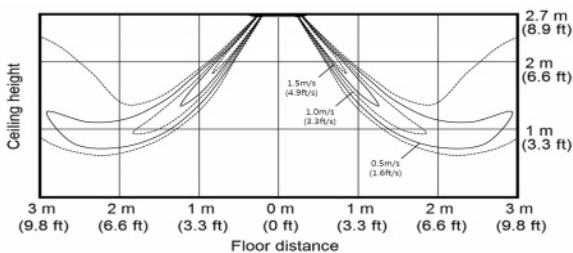
- Cooling temperature distribution

(Discharge angle : 41 degree)



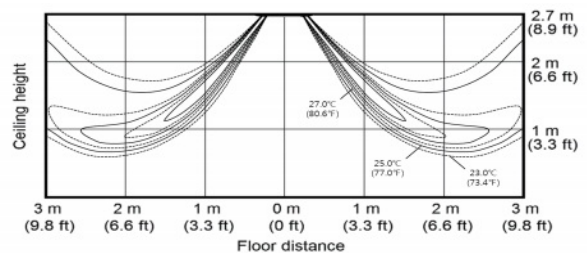
- Heating Air Velocity distribution

(Discharge angle : 56 degree)



- Heating temperature distribution

(Discharge angle : 56 degree)



Wind-Free 4Way Cassette

1. Specification	45
2. Summary Table	51
3. Capacity Table	52
4. Dimensional Drawing	60
5. Center of Gravity	62
6. Electrical Wiring Diagram	63
7. Sound Data	64
8. Temperature and air flow distribution	68

Features & Benefits

Wind-Free 4Way Cassette

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

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



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

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

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

Refine the interior with an elegant, compact design

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

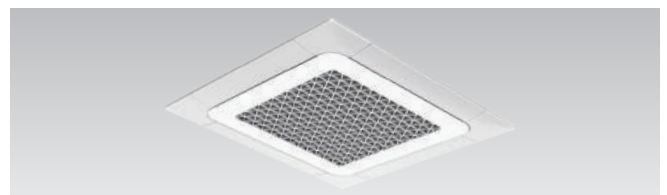
Attractive panel and display

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



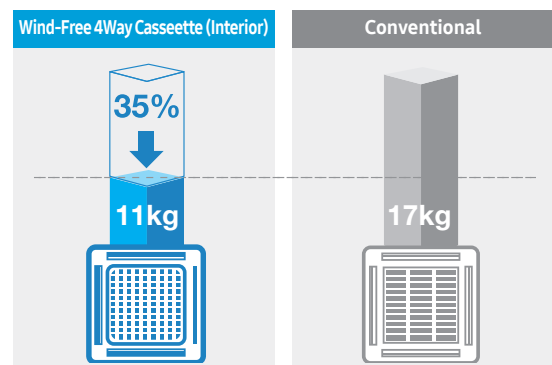
Ultra-compact size

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



Light, robust design

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



*Based on 3.5kW

1. Specification

Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU	
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.00 / 5.00 / 6.50	1.50 / 7.10 / 8.70	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	
			Btu/h	3,410 / 17,060 / 22,180	5,120 / 24,230 / 29,680	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	
		Heating	kW	1.00 / 6.00 / 7.00	1.90 / 8.00 / 9.00	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	
			Btu/h	3,410 / 20,470 / 23,880	6,480 / 27,300 / 30,710	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.33 / 1.43 / 2.30	0.35 / 2.38 / 3.60	0.60 / 3.42 / 4.70	0.60 / 3.32 / 4.70	
		Heating	kW	0.25 / 1.49 / 2.50	0.35 / 2.45 / 3.95	0.46 / 3.10 / 5.40	0.46 / 3.03 / 5.40	
	Current Input (Min/Std/Max)	Cooling	A	1.5 / 6.5 / 9.5	2.0 / 10.3 / 16.0	3.0 / 15.2 / 20.4	1.5 / 5.5 / 7.1	
		Heating	A	1.5 / 6.8 / 12.0	2.0 / 10.7 / 17.0	2.5 / 13.6 / 23.0	1.2 / 5.1 / 8.4	
	Current	MCA	A	17.5	17.5	25.0	17.1	
		MFA	A	20.6	20.6	30.0	17.1	
Efficiency	EER	Cooling	-	3.50	2.98	2.92	3.01	
	COP	Heating	-	4.03	3.27	3.61	3.69	
	SEER (Cooling Energy Grade)		-	7.6 (A++)	6.7 (A++)	7.0 (A++)	7.0 (A++)	
	SCOP (Heating Energy Grade)		-	4.3 (A+)	4.2 (A+)	4.3 (A+)	4.3 (A+)	
	Pdesignh		kW	2.6	4.5	5.3	5.3	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		12.7 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	5	
			Max.	30	50	50	50	
Elevation			20	30	30	30		
Chargeless			10	15	30	30		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	R32	
	Factory Charging	kg	1.2	1.7	2.7	2.7		
		tCO ₂ e	0.81	1.15	1.82	1.82		
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
Heat Exchanger	Type		-	F&T	F&T	F&T	F&T	
	Material	Fin	-	Al	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	Cu	
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile		
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo	Turbo	
	Quantity		EA	1	1	1	1	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	15.0 / 14.0 / 13.0	19.5 / 16.5 / 14.5	31.0 / 25.0 / 19.0	31.0 / 25.0 / 19.0	
			l/s	250 / 233.3 / 216.6	325 / 275 / 241.6	517 / 417 / 317	517 / 417 / 317	
		Heating (H/M/L)	m ³ /min	15.0 / 14.0 / 13.0	19.5 / 16.5 / 14.5	31.0 / 25.0 / 19.0	31.0 / 25.0 / 19.0	
l/s			250 / 233.3 / 216.6	325 / 275 / 241.6	517 / 417 / 317	517 / 417 / 317		
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC	
	Output		W x n	65	65	97 x 1	97 x 1	

1. Specification

Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	33 / 31 / 29	36 / 33 / 29	44 / 39 / 33	44 / 39 / 33
	Sound Power Level		dB(A)	49	53	61	61
External Dimension	Net Weight		kg	14.5	14.5	18.0	18.0
	Shipping Weight		kg	18.5	18.5	22.0	22.0
	Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 275 x 898	898 x 357 x 898	898 x 357 x 898
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Panel (1)	Model Name		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3	6.3
	Shipping Weight		kg	8.7	8.7	8.7	8.7
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	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	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Panel (2)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (3)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black	Black
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (4)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
	Type		-	Stripe Type	Stripe Type	Stripe Type	Stripe Type
	Material		-	ABS	ABS	ABS	ABS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	Included	Included	Included	Included
	Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-	-
		Internal Model	-	-	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	Option	

1. Specification

Wind-Free 4Way Cassette

Model Name	Indoor Unit		AC052RN4DKG/EU	AC071RN4DKG/EU	AC100RN4DKG/EU	AC100RN4DKG/EU	
	Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
Compressor	Model Name		-	UB9TK3150FE4	UB4TN8200FE4	UB8TN8300FJU	UB8TN8300FJU
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	1.51	1.89	2.91	2.91
	Oil	Type	-	POE	POE	POE	POE
Initial charge		cc	500	650	1,200	1,200	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front	Front
	Quantity		EA	1	1	1	1
	Air Flow Rate		m ³ /min	40	51	72	72
l/s			667	850	1,200	1,200	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48	49	52	52
		Heating	dB(A)	48	51	54	54
	Sound Power Level		dB(A)	62	65	69	69
External Dimension	Net Weight		kg	43.0	51.0	75.0	74.0
	Shipping Weight		kg	46.5	55.0	80.0	79.0
	Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	1,023 x 742 x 413	1,023 x 896 x 413	995 x 1,096 x 426	995 x 1,096 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
Operating Temp. Range	Cooling		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

Wind-Free 4Way Cassette

	Model Name		Indoor Unit	AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU	
			Outdoor Unit	AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity (Min/Std/Max)	Cooling	kW	3.5 / 12.0 / 13.5	3.5 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5
				Btu/h	11,940 / 41,000 / 46,100	11,940 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900
			Heating	kW	3.5 / 13.2 / 15.5	3.5 / 13.2 / 15.5	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0
				Btu/h	11,940 / 45,040 / 52,900	11,940 / 45,040 / 52,900	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.60 / 5.30	0.90 / 4.45 / 5.50	0.80 / 4.62 / 6.45	0.80 / 4.62 / 6.60
			Heating	kW	0.75 / 4.15 / 5.60	0.75 / 4.05 / 6.40	0.70 / 4.90 / 7.36	0.70 / 4.76 / 7.50
		Current Input (Min/Std/Max)	Cooling	A	4.3 / 20.1 / 24.0	2.1 / 6.8 / 10.0	3.7 / 20.0 / 28.0	2.1 / 7.1 / 10.5
			Heating	A	3.7 / 18.2 / 26.0	2.1 / 6.3 / 12.0	3.5 / 21.3 / 32.0	1.9 / 7.3 / 12.0
		Current	MCA	A	25.0	17.1	33.0	17.1
			MFA	A	30.0	17.1	40.0	17.1
	Efficiency	EER	Cooling	-	2.60	2.69	2.90	2.90
		COP	Heating	-	3.18	3.26	3.16	3.25
		SEER (Cooling Energy Grade)		-	6.0 (A+)	6.0 (A+)	6.6 (-)	6.6 (-)
		SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	4.3 (-)	4.3 (-)
		Pdesignh		kW	6.5	6.5	8.4	8.4
	Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
		Gas Pipe	Type		Flare connection	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
Piping length (ODU-IDU)		Standard	m		5	5	5	5
			Max.	m	50	50	75	75
			Elevation	m	30	30	30	30
	Chargeless		m	30	30	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	R32	
	Factory Charging	kg		2.7	2.7	2.9	2.9	
		tCO ₂ e		1.82	1.82	1.96	1.96	
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment			-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Turbo	Turbo	Turbo	Turbo
		Quantity		EA	1	1	1	1
		Air Flow Rate	Cooling (H/M/L)	m ³ /min	32.0 / 26.0 / 20.0	32.0 / 26.0 / 20.0	32.0 / 27.0 / 22.0	32.0 / 27.0 / 22.0
				l/s	533 / 433 / 333	533 / 433 / 333	533 / 450 / 367	533 / 450 / 367
			Heating (H/M/L)	m ³ /min	32.0 / 26.0 / 20.0	32.0 / 26.0 / 20.0	32.0 / 27.0 / 22.0	32.0 / 27.0 / 22.0
				l/s	533 / 433 / 333	533 / 433 / 333	533 / 450 / 367	533 / 450 / 367
	Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC
Output		W x n	97 x 1	97 x 1	97 x 1	97 x 1		

1. Specification

Wind-Free 4Way Cassette

Model Name	Indoor Unit			AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU
	Outdoor Unit			AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 40 / 35	45 / 40 / 35	45 / 41 / 37	45 / 41 / 37
	Sound Power Level		dB(A)	61	61	61	61
External Dimension	Net Weight		kg	18.0	18.0	20.0	20.0
	Shipping Weight		kg	22.0	22.0	24.0	24.0
	Net Dimensions (WxHxD)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (WxHxD)		mm	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
Casing	Material		-	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Panel (1)	Model Name		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	DA White	DA White	DA White	DA White
	Net Weight		kg	6.3	6.3	6.3	6.3
	Shipping Weight		kg	8.7	8.7	8.7	8.7
	Net Dimensions (WxHxD)		mm	950 x 48 x 950	950 x 48 x 950	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	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Panel (2)	Model Name		-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (3)	Model Name		-	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN	PC4NBSKAN
	Type		-	Waffle Type	Waffle Type	Waffle Type	Waffle Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black	Black
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Panel (4)	Model Name		-	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN	PC4NUSKEN
	Type		-	Stripe Type	Stripe Type	Stripe Type	Stripe Type
	Material		-	ABS	ABS	ABS	ABS
	Color		-	White	White	White	White
	Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8	8	8	8
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	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	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	Included	Included	Included	Included
	Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-	-
		Internal Model	-	-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	Option	

1. Specification

Wind-Free 4Way Cassette

	Model Name		Indoor Unit	AC120RN4DKG/EU	AC120RN4DKG/EU	AC140RN4DKG/EU	AC140RN4DKG/EU	
			Outdoor Unit	AC120RXADKG/EU	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al	Al
			Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
	Compressor	Model Name		-	UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
		Type		-	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
		Output		kW	4.25	4.25	4.25	4.25
		Oil	Type	-	POE	POE	POE	POE
	Initial charge		cc	1,700	1,700	1,700	1,700	
	Fan	Type		-	Propeller	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front	Front
		Quantity		EA	1	1	2	2
		Air Flow Rate	m ³ /min		72	72	110	110
	l/s		1,200	1,200	1,833	1,833		
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	54	53	53
			Heating	dB(A)	56	56	54	54
		Sound Power Level		dB(A)	70	70	69	69
External Dimension	Net Weight		kg	81.0	80.0	91.5	90.5	
	Shipping Weight		kg	86.0	85.0	100.0	99.0	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wind-Free 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)				
AC052RN4DKG/EU	15.0	Max.	6.50	7.00	High	15.0	36	53
		Std.	5.00	6.00	Mid	14.0	33	
		Min.	1.00	1.00	Low	13.0	29	
AC071RN4DKG/EU	15.0	Max.	8.70	9.00	High	19.5	36	53
		Std.	7.10	8.00	Mid	16.5	33	
		Min.	1.50	1.90	Low	14.5	29	
AC100RN4DKG/EU	18.0	Max.	12.00	15.50	High	31.0	44	61
		Std.	10.00	11.20	Mid	25.0	39	
		Min.	3.00	2.20	Low	19.0	33	
AC120RN4DKG/EU	18.0	Max.	13.50	15.50	High	32.0	45	61
		Std.	12.00	13.20	Mid	26.0	40	
		Min.	3.50	3.50	Low	20.0	35	
AC140RN4DKG/EU	20.0	Max.	15.50	18.00	High	32.0	45	61
		Std.	13.40	15.50	Mid	27.0	41	
		Min.	3.50	3.50	Low	22.0	37	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)	
			Volts	Min.	Max.	Cooling					Heating
AC052RN4DKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC071RN4DKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC100RN4DKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0
AC100RN4DKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC120RN4DKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0
AC120RN4DKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC140RN4DKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	32.0	32.0	1.0	33.0	33.0	40.0
AC140RN4DKG/EU	AC140RXADNG/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

Wind-Free 4Way Cassette

(1) AC052RN4DKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	4.0	1.02	5.1	4.1	1.04	5.3	4.3	1.07	5.5	4.4	1.09	5.6	4.4	1.10	5.9	4.3	1.11	6.2	4.2	1.13
21	4.6	3.8	1.08	4.9	4.0	1.10	5.1	4.1	1.12	5.3	4.2	1.14	5.4	4.2	1.16	5.6	4.1	1.17	5.9	4.0	1.19
35	4.4	3.7	1.35	4.7	3.8	1.37	4.9	3.9	1.40	5.0	4.0	1.43	5.1	4.0	1.44	5.4	3.9	1.46	5.6	3.8	1.49
46	3.8	3.4	1.21	4.0	3.5	1.24	4.1	3.6	1.26	4.3	3.7	1.29	4.3	3.7	1.30	4.6	3.6	1.31	4.8	3.6	1.34
50	2.9	2.7	1.08	3.0	2.8	1.10	3.2	2.8	1.12	3.3	2.9	1.14	3.3	2.9	1.16	3.5	2.9	1.17	3.7	2.8	1.19

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.2	1.98	4.2	1.96	4.1	1.94	4.1	1.92	4.1	1.90	4.0	1.88
-15	5.3	2.28	5.3	2.26	5.2	2.24	5.2	2.21	5.1	2.19	5.1	2.17
-5	6.0	2.13	5.9	2.11	5.9	2.09	5.8	2.07	5.8	2.04	5.7	2.02
0	6.2	1.82	6.2	1.81	6.1	1.79	6.1	1.77	6.0	1.75	5.9	1.73
7	6.1	1.52	6.1	1.50	6.0	1.49	5.9	1.48	5.9	1.46	5.8	1.45
24	8.0	1.75	7.9	1.73	7.8	1.71	7.7	1.70	7.6	1.68	7.6	1.66

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(2) AC071RN4DKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	5.1	1.70	7.3	5.3	1.74	7.6	5.5	1.77	7.8	5.6	1.81	8.0	5.6	1.83	8.4	5.5	1.84	8.8	5.4	1.88
21	6.6	4.9	1.79	6.9	5.0	1.83	7.2	5.2	1.87	7.5	5.4	1.90	7.6	5.3	1.92	8.0	5.2	1.94	8.4	5.1	1.98
35	6.3	4.7	2.24	6.6	4.8	2.29	6.9	4.9	2.33	7.1	5.1	2.38	7.2	5.0	2.40	7.6	5.0	2.43	8.0	4.9	2.48
46	5.3	4.4	2.02	5.6	4.5	2.06	5.9	4.6	2.10	6.0	4.8	2.14	6.2	4.7	2.16	6.5	4.7	2.18	6.8	4.6	2.23
50	4.1	3.4	1.79	4.3	3.6	1.83	4.5	3.7	1.87	4.6	3.8	1.90	4.7	3.7	1.92	4.9	3.7	1.94	5.2	3.6	1.98

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.25	5.6	3.22	5.5	3.19	5.5	3.15	5.4	3.12	5.4	3.09
-15	7.1	3.75	7.0	3.71	7.0	3.68	6.9	3.64	6.8	3.60	6.8	3.57
-5	8.0	3.50	7.9	3.46	7.8	3.43	7.8	3.40	7.7	3.36	7.6	3.33
0	8.3	3.00	8.2	2.97	8.2	2.94	8.1	2.91	8.0	2.88	7.9	2.85
7	8.2	2.50	8.1	2.47	8.0	2.45	7.9	2.43	7.8	2.40	7.8	2.38
24	10.6	2.87	10.5	2.85	10.4	2.82	10.3	2.79	10.2	2.76	10.1	2.73

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(3) AC100RN4DKG/EU+AC100RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.45	10.3	8.1	2.50	10.7	8.3	2.55	11.0	8.6	2.60	11.2	8.5	2.63	11.8	8.4	2.65	12.4	8.3	2.70
21	9.3	7.5	2.58	9.8	7.7	2.63	10.2	7.9	2.68	10.5	8.2	2.74	10.7	8.1	2.76	11.2	8.0	2.79	11.8	7.9	2.85
35	8.8	7.1	3.22	9.3	7.3	3.28	9.7	7.6	3.35	10.0	7.8	3.42	10.2	7.7	3.45	10.7	7.6	3.49	11.2	7.5	3.56
46	7.5	6.6	3.38	7.9	6.8	3.45	8.2	7.0	3.52	8.5	7.3	3.59	8.7	7.2	3.63	9.1	7.1	3.66	9.6	7.0	3.74
50	5.8	5.2	2.80	6.1	5.4	2.86	6.3	5.5	2.92	6.5	5.7	2.98	6.6	5.7	3.01	7.0	5.6	3.03	7.3	5.5	3.10

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.11	7.8	4.07	7.7	4.03	7.7	3.99	7.6	3.95	7.5	3.91
-15	9.9	4.43	9.8	4.38	9.7	4.34	9.6	4.30	9.6	4.25	9.5	4.21
-5	11.2	4.74	11.1	4.70	11.0	4.65	10.9	4.60	10.8	4.56	10.7	4.51
0	11.7	3.79	11.5	3.76	11.4	3.72	11.3	3.68	11.2	3.65	11.1	3.61
7	11.4	3.16	11.3	3.13	11.2	3.10	11.1	3.07	11.0	3.04	10.9	3.01
24	14.9	3.64	14.7	3.60	14.6	3.57	14.4	3.53	14.3	3.49	14.1	3.46

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(4) AC100RN4DKG/EU+AC100RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.37	10.3	8.1	2.42	10.7	8.3	2.47	11.0	8.6	2.52	11.2	8.5	2.55	11.8	8.4	2.57	12.4	8.3	2.63
21	9.3	7.5	2.50	9.8	7.7	2.55	10.2	7.9	2.60	10.5	8.2	2.66	10.7	8.1	2.68	11.2	8.0	2.71	11.8	7.9	2.76
35	8.8	7.1	3.12	9.3	7.3	3.19	9.7	7.6	3.25	10.0	7.8	3.32	10.2	7.7	3.35	10.7	7.6	3.39	11.2	7.5	3.45
46	7.8	7.0	3.44	8.2	7.2	3.51	8.5	7.4	3.58	8.8	7.6	3.65	9.0	7.6	3.69	9.4	7.5	3.73	9.9	7.3	3.80
50	6.4	5.9	3.06	6.7	6.1	3.12	7.0	6.3	3.19	7.2	6.5	3.25	7.3	6.4	3.29	7.7	6.4	3.32	8.1	6.2	3.39

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.02	7.8	3.98	7.7	3.94	7.7	3.90	7.6	3.86	7.5	3.82
-15	9.9	4.33	9.8	4.28	9.7	4.24	9.6	4.20	9.6	4.16	9.5	4.12
-5	11.2	4.64	11.1	4.59	11.0	4.55	10.9	4.50	10.8	4.45	10.7	4.41
0	11.7	3.71	11.5	3.67	11.4	3.64	11.3	3.60	11.2	3.56	11.1	3.53
7	11.4	3.09	11.3	3.06	11.2	3.03	11.1	3.00	11.0	2.97	10.9	2.94
24	14.9	3.55	14.7	3.52	14.6	3.48	14.4	3.45	14.3	3.42	14.1	3.38

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(5) AC120RN4DKG/EU+AC120RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.8	3.29	12.3	9.1	3.36	12.8	9.4	3.43	13.2	9.7	3.50	13.5	9.6	3.53	14.2	9.5	3.57	14.9	9.3	3.64
21	11.1	8.4	3.46	11.7	8.7	3.53	12.2	8.9	3.61	12.6	9.2	3.68	12.9	9.1	3.72	13.5	9.0	3.75	14.2	8.8	3.83
35	10.6	8.0	4.33	11.2	8.2	4.42	11.6	8.5	4.51	12.0	8.8	4.60	12.2	8.7	4.65	12.9	8.6	4.69	13.5	8.4	4.79
46	9.0	7.5	3.90	9.5	7.7	3.98	9.9	7.9	4.06	10.2	8.2	4.14	10.4	8.1	4.18	10.9	8.0	4.22	11.5	7.9	4.31
50	6.9	5.9	3.46	7.3	6.1	3.53	7.6	6.3	3.61	7.8	6.5	3.68	8.0	6.4	3.72	8.4	6.3	3.75	8.8	6.2	3.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.50	9.2	5.45	9.1	5.40	9.0	5.34	8.9	5.29	8.8	5.23
-15	11.7	5.93	11.6	5.87	11.5	5.81	11.4	5.75	11.3	5.69	11.1	5.64
-5	13.2	6.14	13.1	6.08	12.9	6.02	12.8	5.96	12.7	5.90	12.6	5.84
0	13.7	5.08	13.6	5.03	13.5	4.98	13.3	4.93	13.2	4.88	13.1	4.83
7	13.5	4.23	13.3	4.19	13.2	4.15	13.1	4.11	12.9	4.07	12.8	4.03
24	17.5	4.87	17.3	4.82	17.2	4.77	17.0	4.72	16.8	4.68	16.7	4.63

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(6) AC120RN4DKG/EU+AC120RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.8	3.18	12.3	9.1	3.25	12.8	9.4	3.31	13.2	9.7	3.38	13.5	9.6	3.42	14.2	9.5	3.45	14.9	9.3	3.52
21	11.1	8.4	3.35	11.7	8.7	3.42	12.2	8.9	3.49	12.6	9.2	3.56	12.9	9.1	3.60	13.5	9.0	3.63	14.2	8.8	3.70
35	10.6	8.0	4.19	11.2	8.2	4.27	11.6	8.5	4.36	12.0	8.8	4.45	12.2	8.7	4.49	12.9	8.6	4.54	13.5	8.4	4.63
46	9.0	7.5	3.77	9.5	7.7	3.85	9.9	7.9	3.92	10.2	8.2	4.01	10.4	8.1	4.05	10.9	8.0	4.09	11.5	7.9	4.17
50	6.9	5.9	3.35	7.3	6.1	3.42	7.6	6.3	3.49	7.8	6.5	3.56	8.0	6.4	3.60	8.4	6.3	3.63	8.8	6.2	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.37	9.2	5.32	9.1	5.27	9.0	5.21	8.9	5.16	8.8	5.11
-15	11.7	5.78	11.6	5.73	11.5	5.67	11.4	5.61	11.3	5.56	11.1	5.50
-5	13.2	5.99	13.1	5.93	12.9	5.87	12.8	5.81	12.7	5.76	12.6	5.70
0	13.7	4.96	13.6	4.91	13.5	4.86	13.3	4.81	13.2	4.76	13.1	4.72
7	13.5	4.13	13.3	4.09	13.2	4.05	13.1	4.01	12.9	3.97	12.8	3.93
24	17.5	4.75	17.3	4.70	17.2	4.66	17.0	4.61	16.8	4.56	16.7	4.52

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(7) AC140RN4DKG/EU+AC140RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.30	13.8	9.8	3.37	14.3	10.1	3.44	14.8	10.4	3.51	15.1	10.3	3.55	15.8	10.2	3.58	16.6	10.0	3.65
21	12.4	9.0	3.48	13.1	9.3	3.55	13.6	9.6	3.62	14.1	9.9	3.70	14.4	9.8	3.73	15.1	9.7	3.77	15.8	9.5	3.85
35	11.9	8.6	4.35	12.5	8.8	4.44	13.0	9.1	4.53	13.4	9.4	4.62	13.7	9.3	4.67	14.4	9.2	4.71	15.1	9.0	4.81
46	10.1	8.1	3.91	10.6	8.3	3.99	11.0	8.6	4.07	11.4	8.8	4.16	11.6	8.7	4.20	12.2	8.6	4.24	12.8	8.5	4.33
50	7.7	6.4	3.48	8.1	6.6	3.55	8.4	6.8	3.62	8.7	7.0	3.70	8.9	6.9	3.73	9.3	6.8	3.77	9.8	6.7	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.50	10.2	5.44	10.1	5.39	10.0	5.34	9.9	5.28	9.8	5.23
-15	13.8	6.50	13.6	6.43	13.5	6.37	13.4	6.31	13.2	6.24	13.1	6.18
-5	15.5	7.00	15.3	6.93	15.2	6.86	15.0	6.79	14.9	6.72	14.7	6.66
0	16.1	6.00	16.0	5.94	15.8	5.88	15.7	5.82	15.5	5.76	15.3	5.71
7	15.8	5.00	15.7	4.95	15.5	4.90	15.3	4.85	15.2	4.80	15.0	4.75
24	20.6	5.75	20.4	5.69	20.2	5.64	19.9	5.58	19.7	5.52	19.6	5.47

NOTE

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

3. Capacity Table

Wind-Free 4Way Cassette

(8) AC140RN4DKG/EU+AC140RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.30	13.8	9.8	3.37	14.3	10.1	3.44	14.8	10.4	3.51	15.1	10.3	3.55	15.8	10.2	3.58	16.6	10.0	3.65
21	12.4	9.0	3.48	13.1	9.3	3.55	13.6	9.6	3.62	14.1	9.9	3.70	14.4	9.8	3.73	15.1	9.7	3.77	15.8	9.5	3.85
35	11.9	8.6	4.35	12.5	8.8	4.44	13.0	9.1	4.53	13.4	9.4	4.62	13.7	9.3	4.67	14.4	9.2	4.71	15.1	9.0	4.81
46	10.1	8.3	3.91	10.6	8.5	3.99	11.0	8.8	4.07	11.4	9.1	4.16	11.6	9.0	4.20	12.2	8.9	4.24	12.8	8.7	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.34	10.2	5.29	10.1	5.24	10.0	5.18	9.9	5.13	9.8	5.08
-15	13.8	6.31	13.6	6.25	13.5	6.19	13.4	6.13	13.2	6.06	13.1	6.00
-5	15.5	6.80	15.3	6.73	15.2	6.66	15.0	6.60	14.9	6.53	14.7	6.47
0	16.1	5.83	16.0	5.77	15.8	5.71	15.7	5.65	15.5	5.60	15.3	5.54
7	15.8	4.86	15.7	4.81	15.5	4.76	15.3	4.71	15.2	4.67	15.0	4.62
24	20.6	5.58	20.4	5.53	20.2	5.47	19.9	5.42	19.7	5.37	19.6	5.31

NOTE

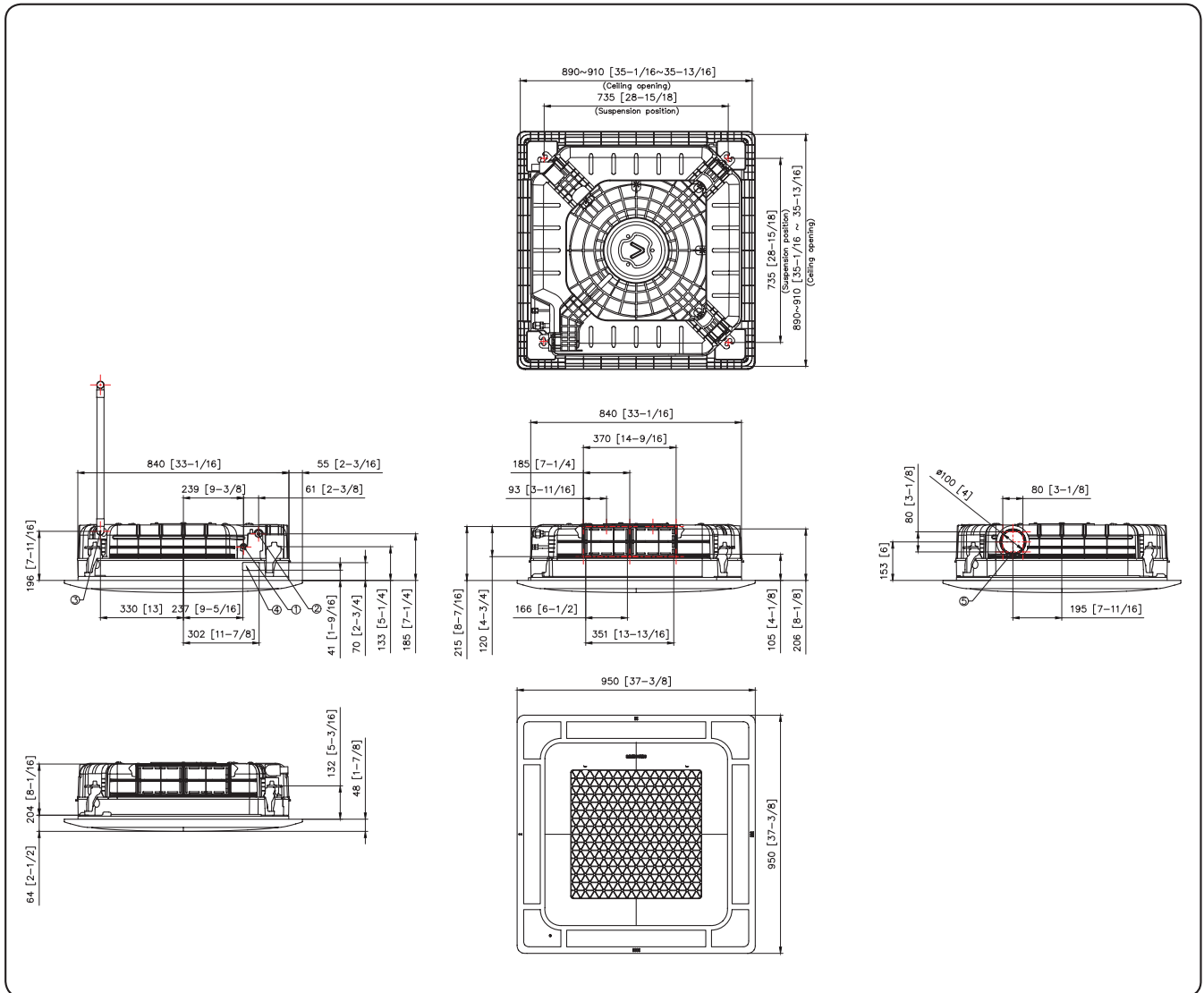
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wind-Free 4Way Cassette

AC052/071RN4DKG/EU

Units : mm [inches]



No.	Name	Description	
		AC052RN4DKG/EU	AC071RN4DKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit		
5	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw	

NOTE

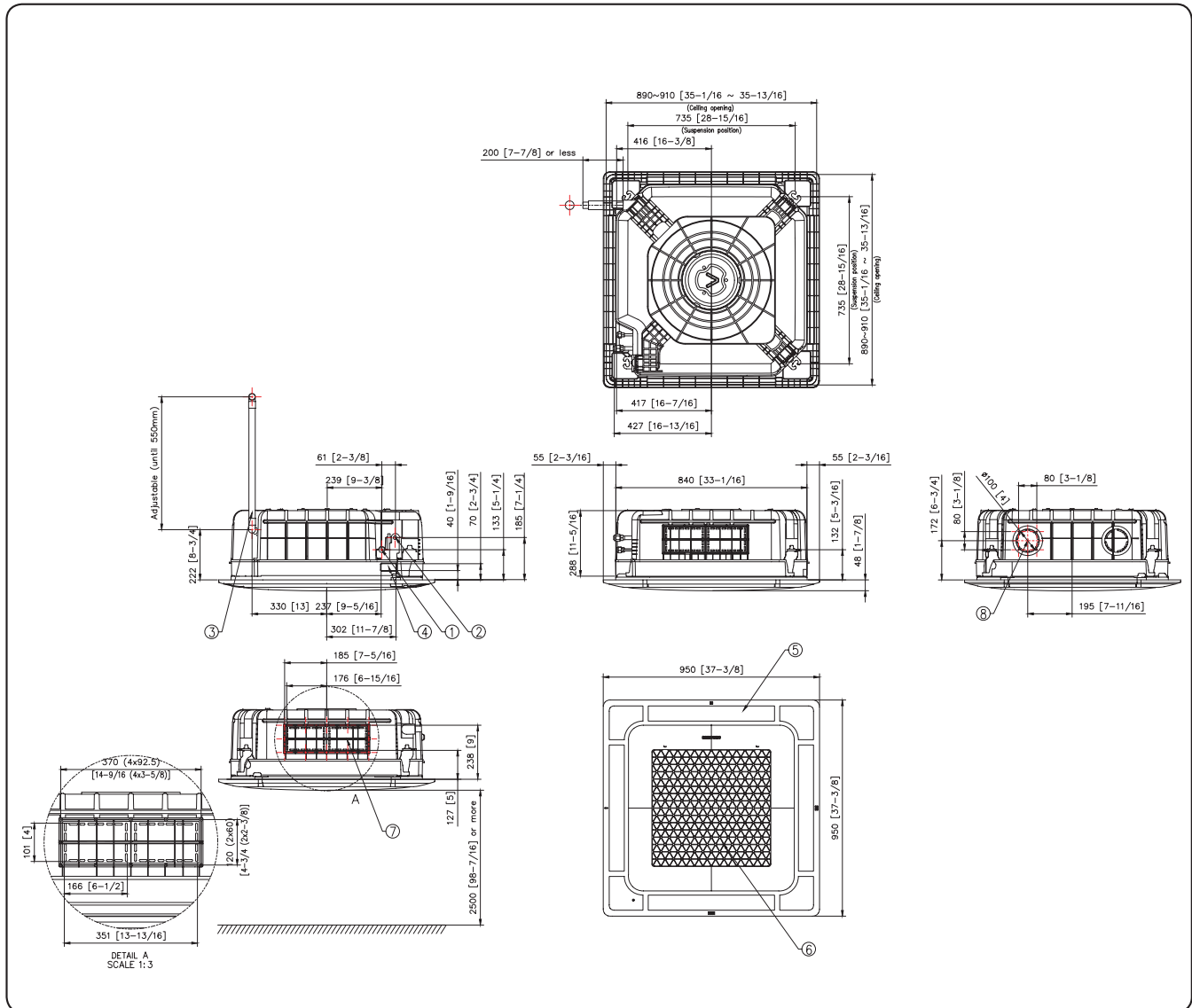
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)

4. Dimensional Drawing

Wind-Free 4Way Cassette

AC100/120/140RN4DKG/EU

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe connection	VP25(OD32, ID25)
4	Conduit for power supply & communication wiring	
5	Air inlet grille	
6	Air outlet louver	
7	Sub-duct	* The sub duct is not applicable to the Wind-Free Panel.
8	Fresh air intake	

NOTE

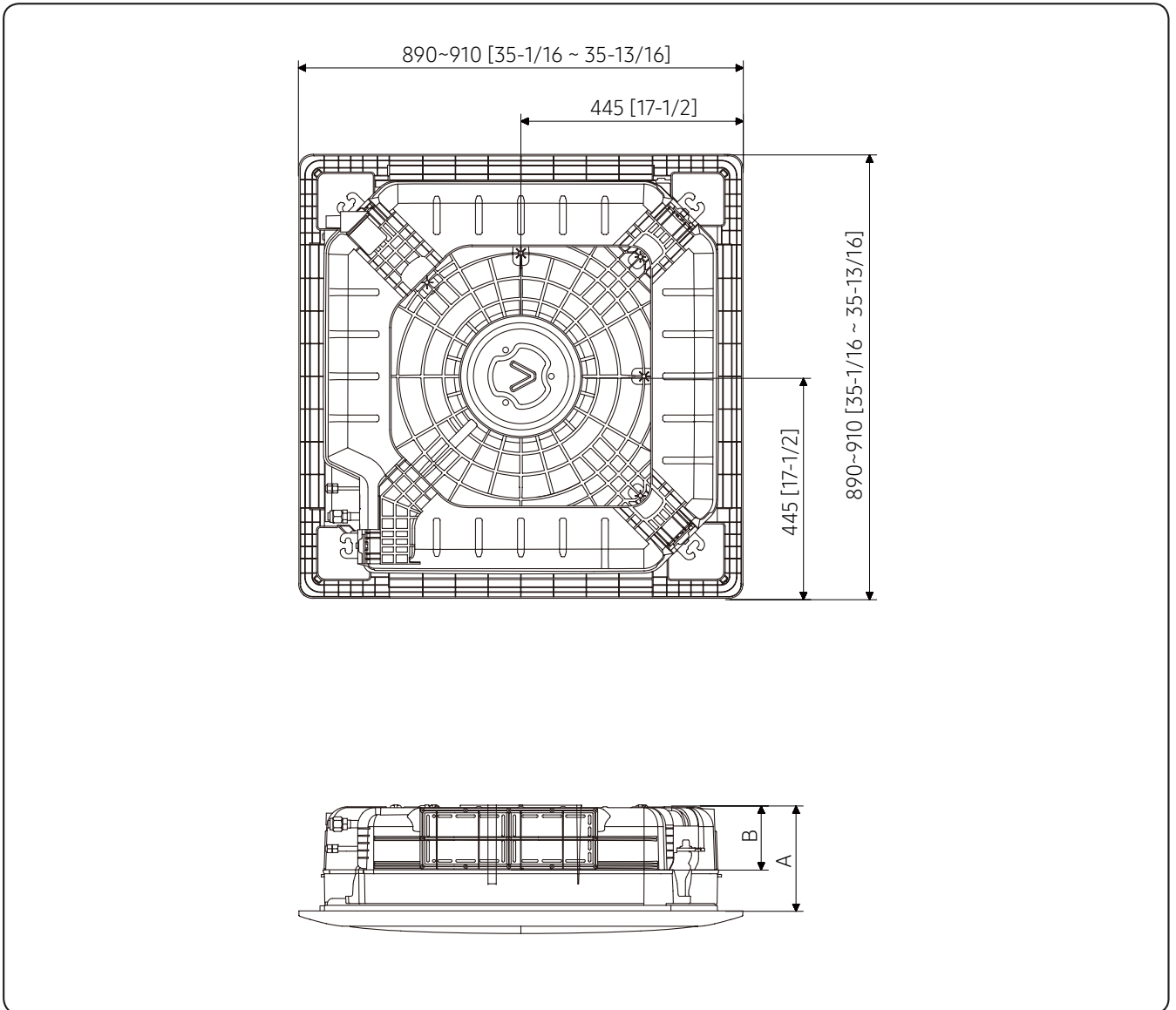
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)

5. Center of Gravity

Wind-Free 4Way Cassette

AC052/071/100/120/140RN4DKG/EU

Units : mm [inches]

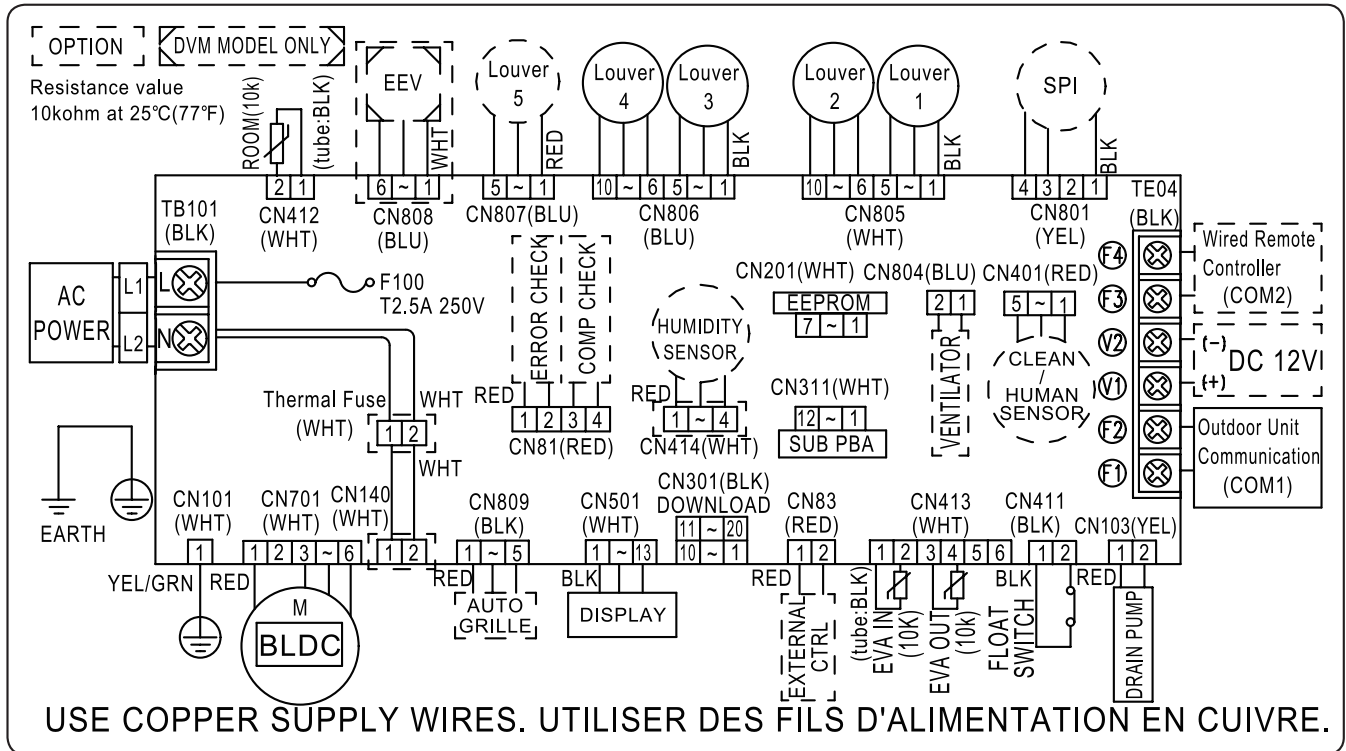


	A	B
~ 7.1kW	221 [8-11/16]	70 [2-3/4]
9kW ~ 14kW	305 [12]	130 [5-1/8]

6. Electrical Wiring Diagram

Wind-Free 4Way Cassette

AC052/071/100/120/140RN4DKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
FLOAT SWITCH	Switch of the float of Drain	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

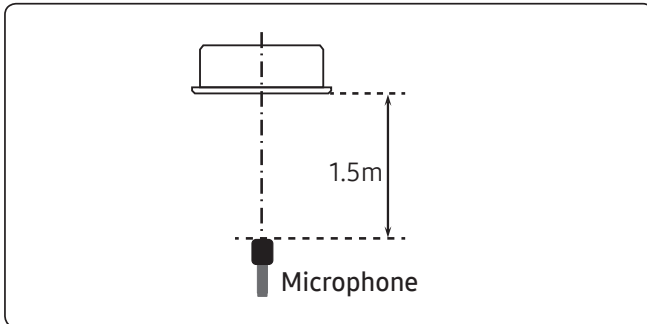
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Wind-Free 4Way Cassette

Sound Pressure level

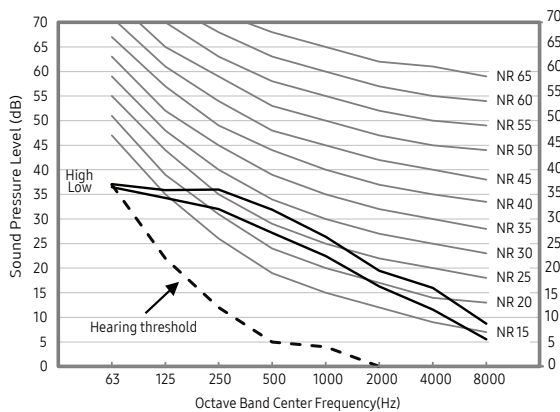
Unit: dB(A)



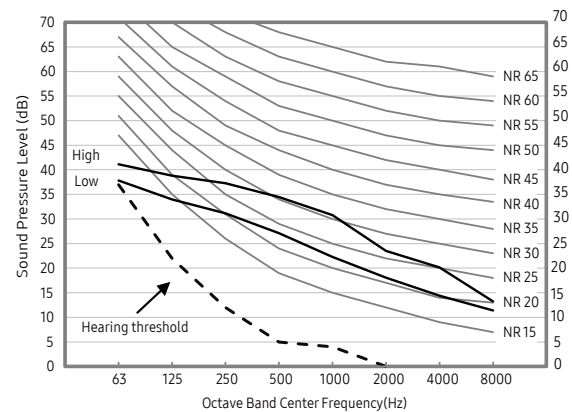
Model	HIGH	MID	LOW
AC052RN4DKG/EU	33	31	29
AC071RN4DKG/EU	36	33	29
AC100RN4DKG/EU	44	39	33
AC120RN4DKG/EU	45	40	35

• NR Curve

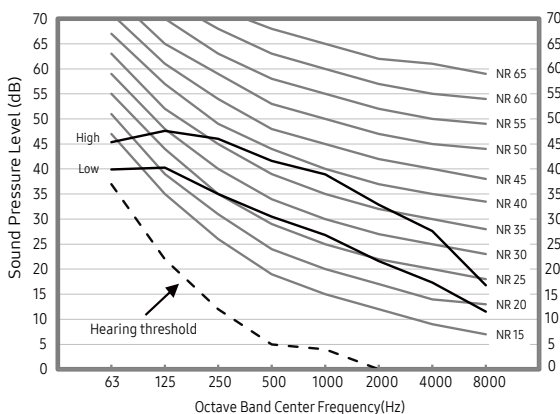
1) AC052RN4DKG/EU



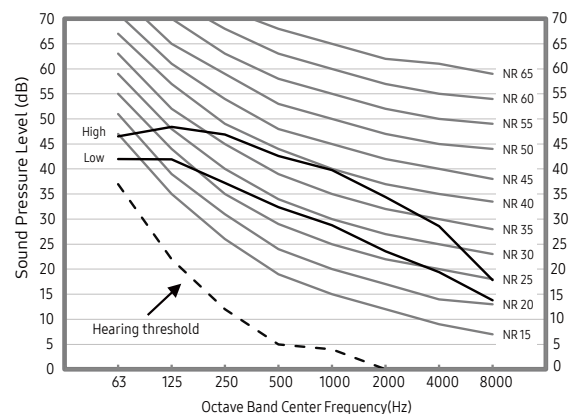
2) AC071RN4DKG/EU



3) AC100RN4DKG/EU



4) AC120RN4DKG/EU



NOTE

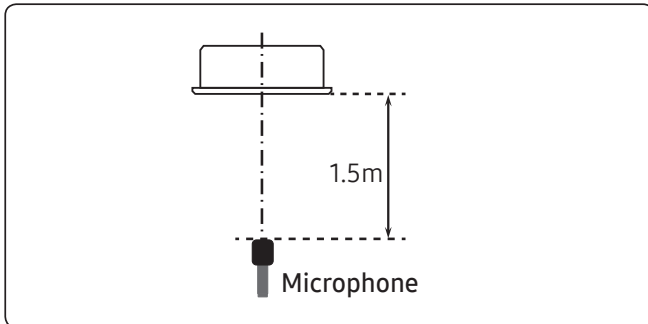
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted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

7. Sound Data

Wind-Free 4Way Cassette

Sound Pressure level

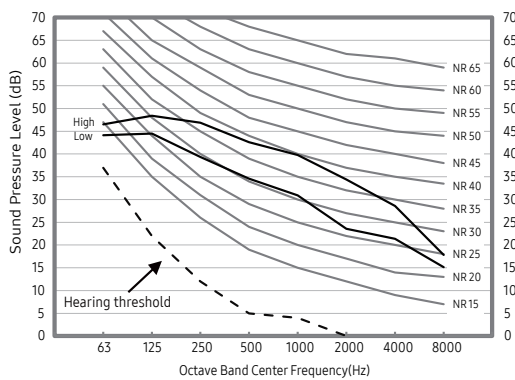
Unit: dB(A)



Model	HIGH	MID	LOW
AC140RN4DKG/EU	45	41	37

- NR Curve

5) AC140RN4DKG/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

Wind-Free 4Way Cassette

Sound Power level

NOTE

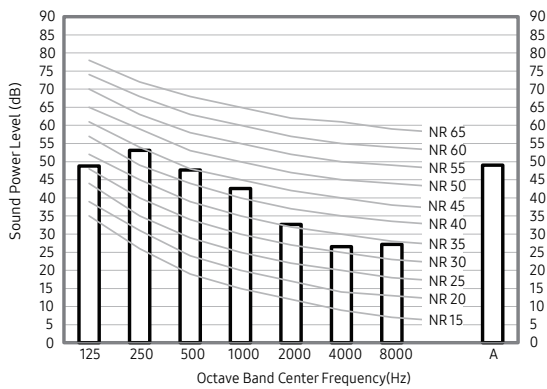
Unit: dB(A)

- 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.

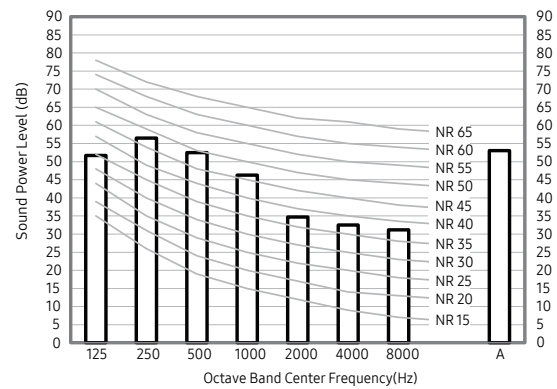
Model	Power
AC052RN4DKG/EU	49
AC071RN4DKG/EU	53
AC100RN4DKG/EU	61
AC120RN4DKG/EU	61

• NR Curve

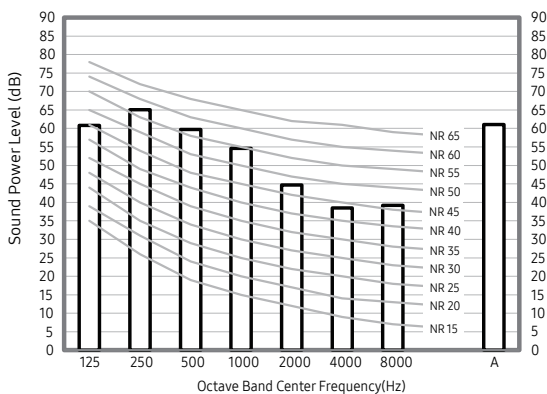
1) AC052RN4DKG/EU



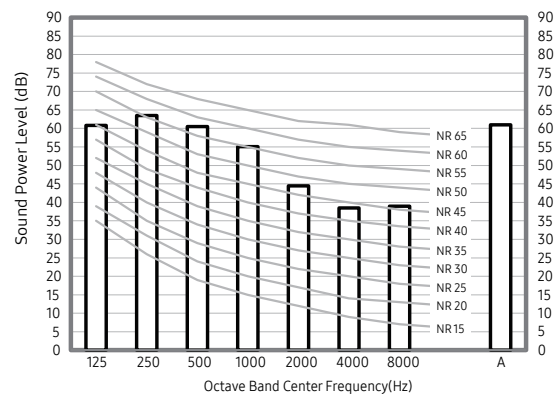
2) AC071RN4DKG/EU



3) AC100RN4DKG/EU



4) AC120RN4DKG/EU



7. Sound Data

Wind-Free 4Way Cassette

Sound Power level

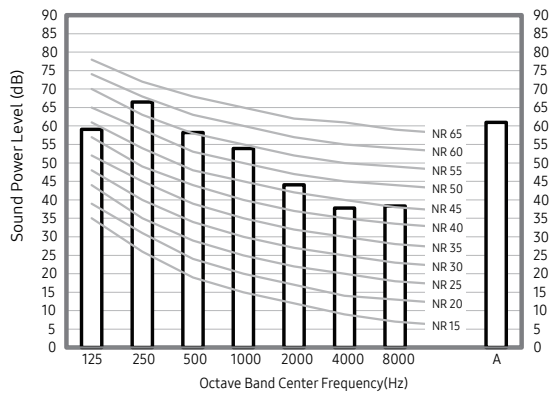
NOTE

- 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
AC140RN4DKG/EU	61

- NR Curve
5) AC140RN4DKG/EU

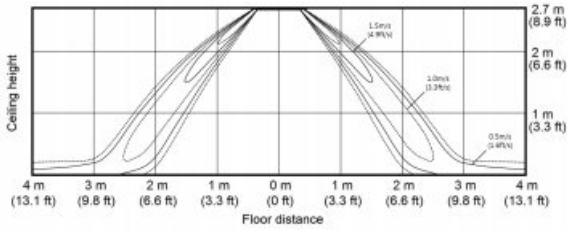


8. Temperature and air flow distribution

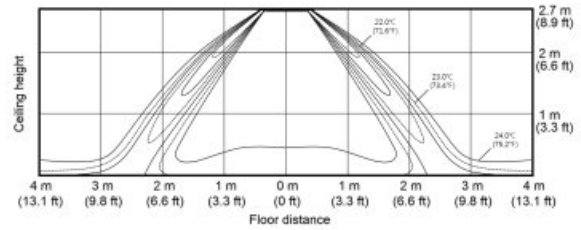
Wind-Free 4Way Cassette

AC052RN4DKG/EU

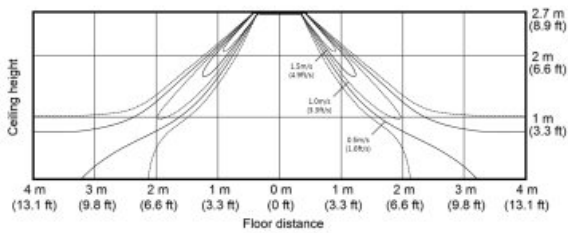
- Cooling Air Velocity distribution
(Discharge angle : 45 degree)



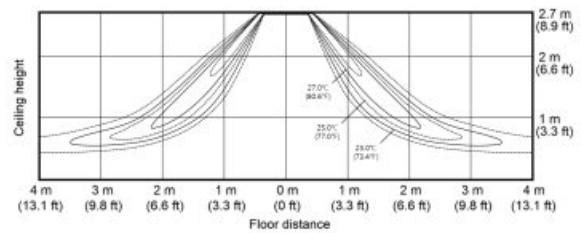
- Cooling temperature distribution
(Discharge angle : 45 degree)



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

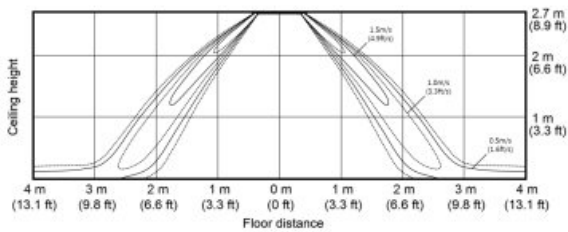


- Heating temperature distribution
(Discharge angle : 52 degree)

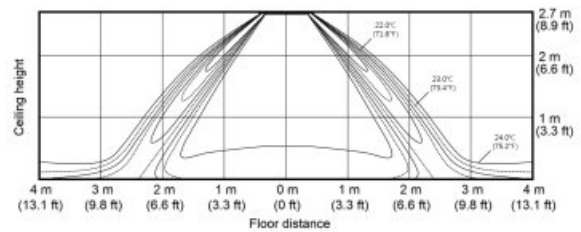


AC071RN4DKG/EU

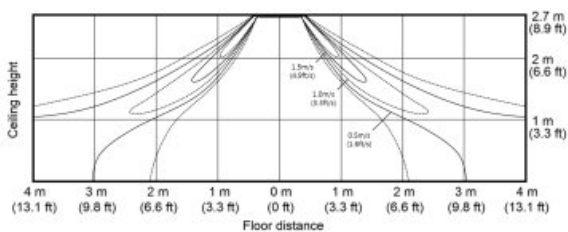
- Cooling Air Velocity distribution
(Discharge angle : 45 degree)



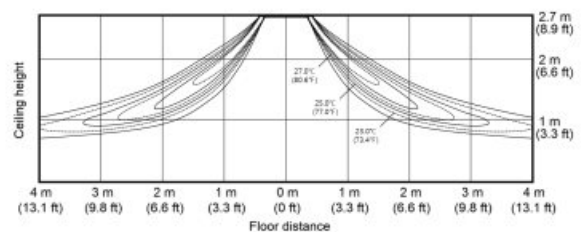
- Cooling temperature distribution
(Discharge angle : 45 degree)



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



- Heating temperature distribution
(Discharge angle : 52 degree)

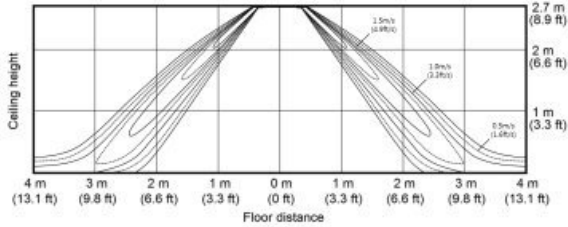


8. Temperature and air flow distribution

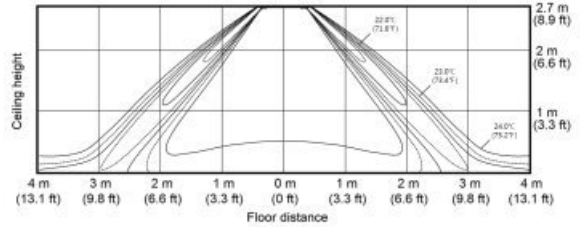
Wind-Free 4Way Cassette

AC100RN4DKG/EU

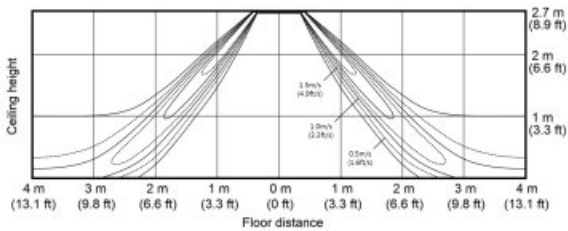
- Cooling Air Velocity distribution
(Discharge angle : 45 degree)



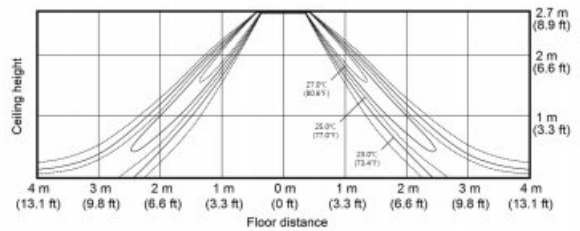
- Cooling temperature distribution
(Discharge angle : 45 degree)



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

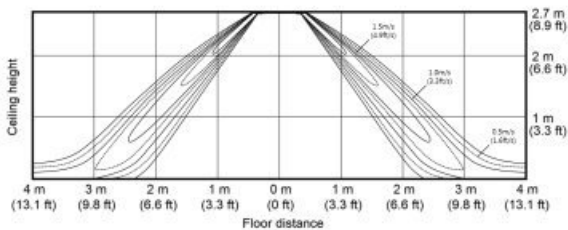


- Heating temperature distribution
(Discharge angle : 52 degree)

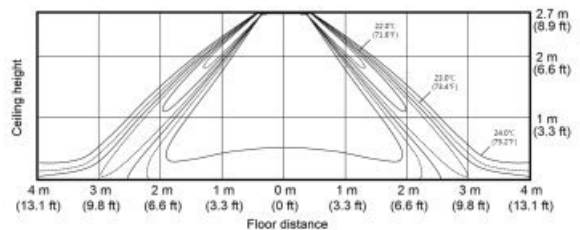


AC120RN4DKG/EU

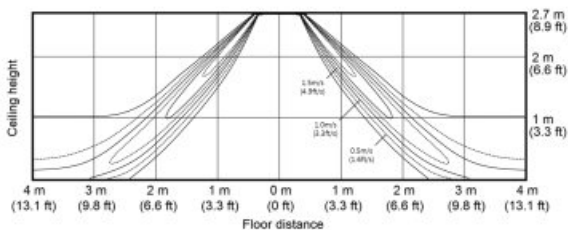
- Cooling Air Velocity distribution
(Discharge angle : 45 degree)



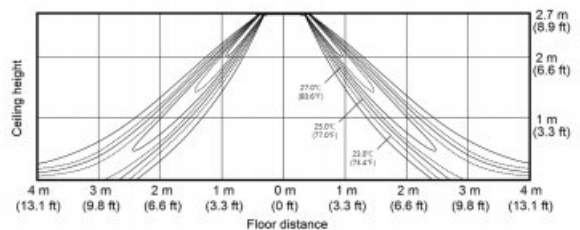
- Cooling temperature distribution
(Discharge angle : 45 degree)



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



- Heating temperature distribution
(Discharge angle : 52 degree)



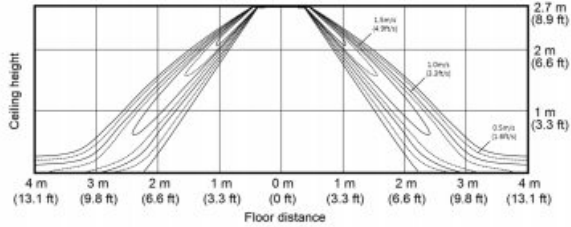
8. Temperature and air flow distribution

Wind-Free 4Way Cassette

AC140RN4DKG/EU

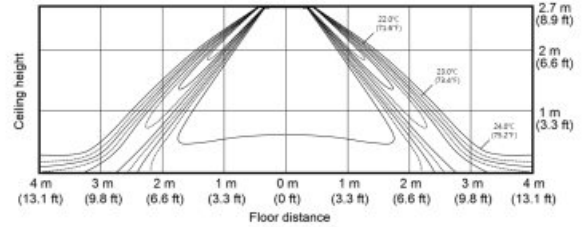
- Cooling Air Velocity distribution

(Discharge angle : 45 degree)



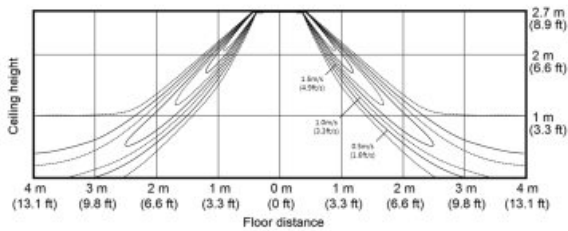
- Cooling temperature distribution

(Discharge angle : 45 degree)



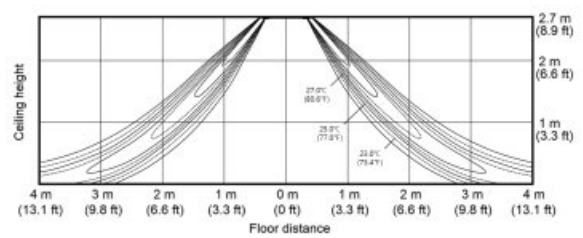
- Heating Air Velocity distribution

(Discharge angle : 52 degree)



- Heating temperature distribution

(Discharge angle : 52 degree)



360 Cassette

1. Specification	73
2. Summary Table	79
3. Capacity Table	80
4. Dimensional Drawing	87
5. Center of Gravity	95
6. Electrical Wiring Diagram	96
7. Sound Data	97
8. Temperature and air flow distribution	99

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

Unlike 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

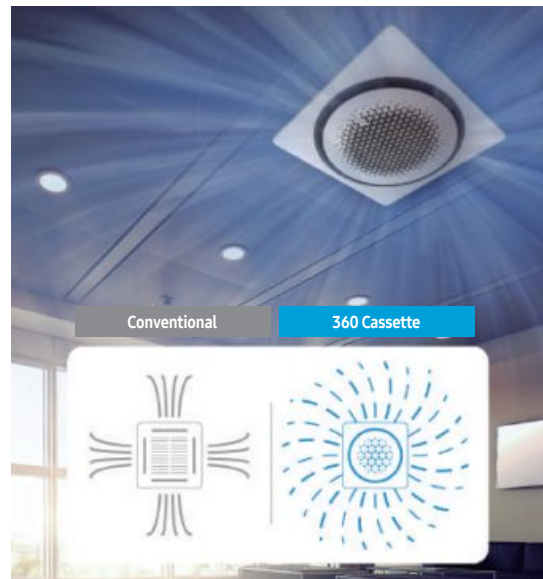
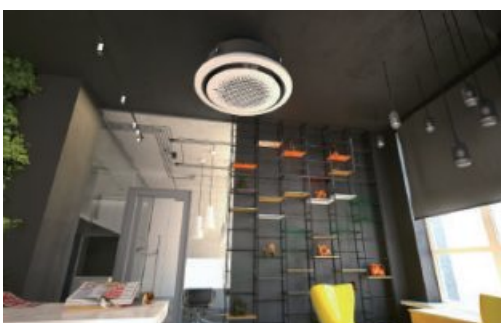
A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft**. With no blades to block the air flow, it also expels 25% more air* and spreads it farther.



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

Circular to perfectly fit in everywhere

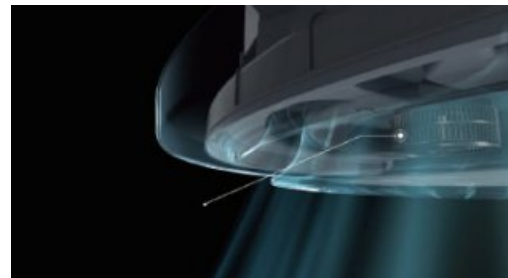
Its innovative circular design can match a multitude of interior designs, so it perfectly fits in everywhere. Its minimalist modern styling creates a sophisticated look and its circular shape stands out beautifully.



* 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

Model Name	Indoor Unit			AC071RN4PKG/EU	AC100RN4PKG/EU	AC100RN4PKG/EU	AC120RN4PKG/EU	
	Outdoor Unit			AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.50 / 7.10 / 8.70	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	3.5 / 12.0 / 13.5	
			Btu/h	5,120 / 24,230 / 29,680	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	11,940 / 41,000 / 46,100	
		Heating	kW	1.90 / 8.00 / 9.00	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	3.5 / 13.2 / 15.5	
			Btu/h	6,480 / 27,300 / 30,710	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	11,940 / 45,040 / 52,900	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.35 / 2.73 / 3.60	0.60 / 3.24 / 4.70	0.60 / 3.20 / 4.70	0.90 / 4.45 / 5.30	
		Heating	kW	0.35 / 2.48 / 3.95	0.46 / 3.20 / 5.40	0.46 / 3.15 / 5.40	0.75 / 4.05 / 5.60	
	Current Input (Min/Std/Max)	Cooling	A	2.0 / 11.8 / 16.0	3.0 / 14.4 / 20.4	1.5 / 5.1 / 7.1	4.3 / 19.5 / 24.0	
		Heating	A	2.0 / 10.7 / 17.0	2.5 / 14.2 / 23.0	1.2 / 5.0 / 8.4	3.7 / 17.7 / 26.0	
	Current	MCA	A	18.0	25.5	17.6	25.5	
		MFA	A	20.6	30.0	17.6	30.0	
Efficiency	EER	Cooling	-	2.60	3.08	3.12	2.69	
	COP	Heating	-	3.23	3.50	3.55	3.26	
	SEER (Cooling Energy Grade)		-	6.7 (A++)	6.8 (A++)	6.8 (A++)	6.0 (A+)	
	SCOP (Heating Energy Grade)		-	4.2 (A+)	4.3 (A+)	4.3 (A+)	4.0 (A+)	
	Pdesignh		kW	4.5	5.3	5.3	6.5	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	Max.	m	5	5	5	5
			Elevation	m	50	50	50	50
Chargeless			m	30	30	30	30	
Chargeless			m	15	30	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	R32	
	Factory Charging		kg	1.7	2.7	2.7	2.7	
			tCO ₂ e	1.15	1.82	1.82	1.82	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
Heat Exchanger	Type		-	F&T	F&T	F&T	F&T	
	Material	Fin	-	Al	Al	Al	Al	
		Tube	-	Cu	Cu	Cu	Cu	
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile		
Fan	Type		-	Turbo Fan	Turbo	Turbo	Turbo	
	Quantity		EA	1	1	1	1	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	17.5 / 15.9 / 14.3	31.2 / 25.5 / 19.8	31.2 / 25.5 / 19.8	32.5 / 25.5 / 19.8	
			l/s	291.6 / 265 / 238.3	520 / 425 / 330	520 / 425 / 330	542 / 425 / 330	
		Heating (H/M/L)	m ³ /min	17.5 / 15.9 / 14.3	31.2 / 25.5 / 19.8	31.2 / 25.5 / 19.8	32.5 / 25.5 / 19.8	
l/s			291.6 / 265 / 238.3	520 / 425 / 330	520 / 425 / 330	542 / 425 / 330		
Fan Motor	Type		-	BLDC	BLDC	BLDC	BLDC	
	Output		W x n	65	97 x 1	97 x 1	97 x 1	

1. Specification

360 Cassette

Indoor Unit	Model Name		Indoor Unit	AC071RN4PKG/EU	AC100RN4PKG/EU	AC100RN4PKG/EU	AC120RN4PKG/EU	
			Outdoor Unit	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 33 / 29	44 / 39 / 33	44 / 39 / 33	45 / 40 / 35
		Sound Power Level		dB(A)	53	61	61	61
	External Dimension	Net Weight		kg	20.2	23.5	23.5	23.5
		Shipping Weight		kg	24.5	28.3	28.3	28.3
		Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
		Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
	Casing	Material		-	HIPS	HIPS	HIPS	HIPS
	Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS	HIPS
		Color		-	White	White	White	White
		Net Weight		kg	3.6	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
		Type		-	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)	Ceiling Type(Sqare)
		Material		-	HIPS	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black	Black
		Net Weight		kg	3.6	3.6	3.6	3.6
		Shipping Weight		kg	6.3	6.3	6.3	6.3
		Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS	HIPS
		Color		-	White	White	White	White
		Net Weight		kg	2.7	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1,050 x 66 x 1,050	1,050 x 66 x 1,050	1,050 x 66 x 1,050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
		Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
		Material		-	HIPS	HIPS	HIPS	HIPS
		Color		-	Black	Black	Black	Black
		Net Weight		kg	2.7	2.7	2.7	2.7
		Shipping Weight		kg	5.3	5.3	5.3	5.3
		Net Dimensions (WxHxD)		mm	1050 x 66 x 1050	1,050 x 66 x 1,050	1,050 x 66 x 1,050	1,050 x 66 x 1,050
		Shipping Dimensions (WxHxD)		mm	1093 x 85 x 1083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
	Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	AR-EH03E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	Included	Included	Included	Included
		Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-	-	
		Internal Model	-	-	-	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-	-	
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	Removable / Washable	
Virus Doctor		-	Option	Option	Option	Option		

1. Specification

360 Cassette

	Model Name		Indoor Unit	AC071RN4PKG/EU	AC100RN4PKG/EU	AC100RN4PKG/EU	AC120RN4PKG/EU
			Outdoor Unit	AC071RXADKG/EU	AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
Compressor	Model Name			UB4TN8200FE4	UB8TN8300FJU	UB8TN8300FJU	UB5TN5450FJX
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	1.89	2.91	2.91	4.25
	Oil	Type	-	POE	POE	POE	POE
Initial charge		cc	320	1,200	1,200	1,700	
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front	Front
	Quantity		EA	1	1	1	1
	Air Flow Rate		m ³ /min	51	72	72	72
l/s			650	1,200	1,200	1,200	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	49	52	52	54
		Heating	dB(A)	51	54	54	56
	Sound Power Level		dB(A)	65	69	69	70
External Dimension	Net Weight		kg	51.0	75.0	74.0	81.0
	Shipping Weight		kg	55.0	80.0	79.0	86.0
	Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	1,023 x 896 x 413	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,096 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

360 Cassette

Model Name	Indoor Unit		AC120RN4PKG/EU	AC140RN4PKG/EU	AC140RN4PKG/EU	
	Outdoor Unit		AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.5 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5
			Btu/h	11,940 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900
		Heating	kW	3.5 / 13.2 / 15.5	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0
			Btu/h	11,940 / 45,040 / 52,900	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420
Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.45 / 5.50	0.80 / 4.76 / 6.45	0.80 / 4.68 / 6.60
		Heating	kW	0.75 / 4.05 / 6.40	0.70 / 4.62 / 7.36	0.70 / 4.54 / 7.50
	Current Input (Min/Std/Max)	Cooling	A	2.1 / 6.9 / 10.0	3.7 / 20.6 / 28.0	2.1 / 7.3 / 10.5
		Heating	A	2.1 / 6.3 / 12.0	3.5 / 20.0 / 32.0	1.9 / 7.1 / 12.0
	Current	MCA	A	17.6	33.5	17.6
		MFA	A	17.6	40.0	17.6
Efficiency	EER	Cooling	-	2.69	2.81	2.86
	COP	Heating	-	3.26	3.35	3.41
	SEER (Cooling Energy Grade)		-	6.0 (A+)	6.4 (-)	6.4 (-)
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.1 (-)	4.1 (-)
	Pdesignh		kW	6.5	8.4	8.4
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Standard	m	5	5	5
			Max.	50	75	75
Elevation			30	30	30	
Chargeless			30	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Factory Charging		kg	2.7	2.9	2.9
			tCO ₂ e	1.82	1.96	1.96
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Turbo	Turbo	Turbo
	Quantity		EA	1	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	32.5 / 25.5 / 19.8	32.4 / 27.1 / 22.8	32.4 / 27.1 / 22.8
			l/s	542 / 425 / 330	540 / 452 / 380	540 / 452 / 380
		Heating (H/M/L)	m ³ /min	32.5 / 25.5 / 19.8	32.4 / 27.1 / 22.8	32.4 / 27.1 / 22.8
l/s			542 / 425 / 330	540 / 452 / 380	540 / 452 / 380	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	97 x 1	97 x 1	97 x 1

1. Specification

360 Cassette

Model Name	Indoor Unit			AC120RN4PKG/EU	AC140RN4PKG/EU	AC140RN4PKG/EU
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	45 / 40 / 35	45 / 41 / 37	45 / 41 / 37
	Sound Power Level		dB(A)	61	61	61
External Dimension	Net Weight		kg	23.5	25.5	25.5
	Shipping Weight		kg	28.3	30.3	30.3
	Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
Casing	Material		-	HIPS	HIPS	HIPS
Panel (1)	Model Name		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
	Material		-	HIPS	HIPS	HIPS
	Color		-	White	White	White
	Net Weight		kg	3.6	3.6	3.6
	Shipping Weight		kg	6.3	6.3	6.3
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	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	1,093 x 85 x 1,083
Panel (2)	Model Name		-	PC4NBDMAN	PC4NBDMAN	PC4NBDMAN
	Type		-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
	Material		-	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black
	Net Weight		kg	3.6	3.6	3.6
	Shipping Weight		kg	6.3	6.3	6.3
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	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	1,093 x 85 x 1,083
Panel (3)	Model Name		-	PC4NUNMAN	PC4NUNMAN	PC4NUNMAN
	Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
	Material		-	HIPS	HIPS	HIPS
	Color		-	White	White	White
	Net Weight		kg	2.7	2.7	2.7
	Shipping Weight		kg	5.3	5.3	5.3
	Net Dimensions (WxHxD)		mm	1,050 x 66 x 1,050	1,050 x 66 x 1,050	1,050 x 66 x 1,050
	Shipping Dimensions (WxHxD)		mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Panel (4)	Model Name		-	PC4NBNMAN	PC4NBNMAN	PC4NBNMAN
	Type		-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
	Material		-	HIPS	HIPS	HIPS
	Color		-	Black	Black	Black
	Net Weight		kg	2.7	2.7	2.7
	Shipping Weight		kg	5.3	5.3	5.3
	Net Dimensions (WxHxD)		mm	1,050 x 66 x 1,050	1,050 x 66 x 1,050	1,050 x 66 x 1,050
	Shipping Dimensions (WxHxD)		mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	Included	Included	Included
	Max. lifting Height / Displacement		mm / Liter / h	750/24	750/24	750/24
Additional Accessories	Drain Pump	External Model	-	-	-	-
		Internal Model	-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	

1. Specification

360 Cassette

	Model Name		Indoor Unit	AC120RN4PKG/EU	AC140RN4PKG/EU	AC140RN4PKG/EU
			Outdoor Unit	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name			UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	4.25	4.25	4.25
	Oil	Type	-	POE	POE	POE
Initial charge		cc	1,700	1,700	1,700	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	2	2
	Air Flow Rate		m ³ /min	72	110	110
l/s			1,200	1,833	1,833	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 2	125 x 2
Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
		Heating	dB(A)	56	54	54
	Sound Power Level		dB(A)	70	69	69
External Dimension	Net Weight		kg	80.0	91.5	90.5
	Shipping Weight		kg	85.0	100.0	99.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
			°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

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)					
AC071RN4PKG/EU	20.2	Max.	8.70	9.00	High	17.5	36	53
		Std.	7.10	8.00	Mid	15.9	33	
		Min.	1.50	1.90	Low	14.3	29	
AC100RN4PKG/EU	23.5	Max.	12.00	15.50	High	31.2	44	61
		Std.	10.00	11.20	Mid	25.5	39	
		Min.	3.00	2.20	Low	19.8	33	
AC120RN4PKG/EU	23.5	Max.	13.50	15.50	High	32.5	45	61
		Std.	12.00	13.20	Mid	25.5	40	
		Min.	3.50	3.50	Low	19.8	35	
AC140RN4PKG/EU	25.5	Max.	15.50	18.00	High	32.4	45	61
		Std.	13.40	15.50	Mid	27.1	41	
		Min.	3.50	3.50	Low	22.8	37	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)	
			Volts	Min.	Max.	Cooling					Heating
AC071RN4PKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.5	18.0	18.0	20.6
AC100RN4PKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	24.5	24.5	1.0	25.5	25.5	30.0
AC100RN4PKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	16.6	16.6	1.0	17.6	17.6	17.6
AC120RN4PKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	24.5	24.5	1.0	25.5	25.5	30.0
AC120RN4PKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	16.6	16.6	1.0	17.6	17.6	17.6
AC140RN4PKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	32.5	32.5	1.0	33.5	33.5	40.0
AC140RN4PKG/EU	AC140RXADNG/EU	50	380 to 415	342	456.5	16.6	16.6	1.0	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) AC071RN4PKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	5.1	1.95	7.3	5.3	1.99	7.6	5.5	2.03	7.8	5.6	2.07	8.0	5.6	2.10	8.4	5.5	2.12	8.8	5.4	2.16
21	6.6	4.9	2.06	6.9	5.0	2.10	7.2	5.2	2.14	7.5	5.4	2.18	7.6	5.3	2.21	8.0	5.2	2.23	8.4	5.1	2.27
35	6.3	4.7	2.57	6.6	4.8	2.62	6.9	4.9	2.68	7.1	5.1	2.73	7.2	5.0	2.76	7.6	5.0	2.78	8.0	4.9	2.84
46	5.3	4.4	2.31	5.6	4.5	2.36	5.9	4.7	2.41	6.0	4.8	2.46	6.2	4.8	2.48	6.5	4.7	2.51	6.8	4.6	2.56
50	4.1	3.5	2.06	4.3	3.6	2.10	4.5	3.7	2.14	4.6	3.8	2.18	4.7	3.8	2.21	4.9	3.8	2.23	5.2	3.7	2.27

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.29	5.6	3.26	5.5	3.22	5.5	3.19	5.4	3.16	5.4	3.13
-15	7.1	3.79	7.0	3.76	7.0	3.72	6.9	3.68	6.8	3.65	6.8	3.61
-5	8.0	3.54	7.9	3.51	7.8	3.47	7.8	3.44	7.7	3.40	7.6	3.37
0	8.3	3.04	8.2	3.01	8.2	2.98	8.1	2.95	8.0	2.92	7.9	2.89
7	8.2	2.53	8.1	2.50	8.0	2.48	7.9	2.46	7.8	2.43	7.8	2.41
24	10.6	2.91	10.5	2.88	10.4	2.85	10.3	2.82	10.2	2.80	10.1	2.77

NOTE

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

3. Capacity Table

360 Cassette

(2) AC100RN4PKG/EU+AC100RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.32	10.3	8.1	2.36	10.7	8.3	2.41	11.0	8.6	2.46	11.2	8.5	2.49	11.8	8.4	2.51	12.4	8.3	2.56
21	9.3	7.5	2.44	9.8	7.7	2.49	10.2	7.9	2.54	10.5	8.2	2.59	10.7	8.1	2.62	11.2	8.0	2.64	11.8	7.9	2.70
35	8.8	7.1	3.05	9.3	7.3	3.11	9.7	7.6	3.18	10.0	7.8	3.24	10.2	7.7	3.27	10.7	7.6	3.30	11.2	7.5	3.37
46	7.5	6.5	3.20	7.9	6.7	3.27	8.2	6.9	3.33	8.5	7.1	3.40	8.7	7.1	3.44	9.1	7.0	3.47	9.6	6.8	3.54
50	5.8	5.1	2.65	6.1	5.3	2.71	6.3	5.4	2.76	6.5	5.6	2.82	6.6	5.5	2.85	7.0	5.5	2.88	7.3	5.4	2.93

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.24	7.8	4.20	7.7	4.16	7.7	4.12	7.6	4.08	7.5	4.04
-15	9.9	4.57	9.8	4.52	9.7	4.48	9.6	4.44	9.6	4.39	9.5	4.35
-5	11.2	4.90	11.1	4.85	11.0	4.80	10.9	4.75	10.8	4.70	10.7	4.66
0	11.7	3.92	11.5	3.88	11.4	3.84	11.3	3.80	11.2	3.76	11.1	3.73
7	11.4	3.26	11.3	3.23	11.2	3.20	11.1	3.17	11.0	3.14	10.9	3.10
24	14.9	3.75	14.7	3.72	14.6	3.68	14.4	3.64	14.3	3.61	14.1	3.57

NOTE

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

3. Capacity Table

360 Cassette

(3) AC100RN4PKG/EU+AC100RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.8	2.29	10.3	8.1	2.34	10.7	8.3	2.38	11.0	8.6	2.43	11.2	8.5	2.46	11.8	8.4	2.48	12.4	8.3	2.53
21	9.3	7.5	2.41	9.8	7.7	2.46	10.2	7.9	2.51	10.5	8.2	2.56	10.7	8.1	2.59	11.2	8.0	2.61	11.8	7.9	2.66
35	8.8	7.1	3.01	9.3	7.3	3.07	9.7	7.6	3.14	10.0	7.8	3.20	10.2	7.7	3.23	10.7	7.6	3.26	11.2	7.5	3.33
46	7.8	6.9	3.31	8.2	7.1	3.38	8.5	7.3	3.45	8.8	7.5	3.52	9.0	7.4	3.56	9.4	7.4	3.59	9.9	7.2	3.66
50	6.4	5.8	2.95	6.7	6.0	3.01	7.0	6.1	3.07	7.2	6.3	3.14	7.3	6.3	3.17	7.7	6.2	3.20	8.1	6.1	3.26

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.18	7.8	4.14	7.7	4.10	7.7	4.05	7.6	4.01	7.5	3.97
-15	9.9	4.50	9.8	4.45	9.7	4.41	9.6	4.37	9.6	4.32	9.5	4.28
-5	11.2	4.82	11.1	4.77	11.0	4.73	10.9	4.68	10.8	4.63	10.7	4.58
0	11.7	3.86	11.5	3.82	11.4	3.78	11.3	3.74	11.2	3.70	11.1	3.67
7	11.4	3.21	11.3	3.18	11.2	3.15	11.1	3.12	11.0	3.09	10.9	3.06
24	14.9	3.70	14.7	3.66	14.6	3.62	14.4	3.59	14.3	3.55	14.1	3.51

NOTE

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

3. Capacity Table

360 Cassette

(4) AC120RN4PKG/EU+AC120RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.18	12.3	9.3	3.25	12.8	9.6	3.31	13.2	9.9	3.38	13.5	9.8	3.42	14.2	9.7	3.45	14.9	9.5	3.52
21	11.1	8.6	3.35	11.7	8.9	3.42	12.2	9.2	3.49	12.6	9.5	3.56	12.9	9.4	3.60	13.5	9.3	3.63	14.2	9.1	3.70
35	10.6	8.2	4.19	11.2	8.5	4.27	11.6	8.7	4.36	12.0	9.0	4.45	12.2	8.9	4.49	12.9	8.8	4.54	13.5	8.6	4.63
46	9.0	7.7	3.77	9.5	7.9	3.85	9.9	8.1	3.92	10.2	8.4	4.01	10.4	8.3	4.05	10.9	8.2	4.09	11.5	8.1	4.17
50	6.9	6.1	3.35	7.3	6.2	3.42	7.6	6.4	3.49	7.8	6.6	3.56	8.0	6.6	3.60	8.4	6.5	3.63	8.8	6.4	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.37	9.2	5.32	9.1	5.27	9.0	5.21	8.9	5.16	8.8	5.11
-15	11.7	5.78	11.6	5.73	11.5	5.67	11.4	5.61	11.3	5.56	11.1	5.50
-5	13.2	5.99	13.1	5.93	12.9	5.87	12.8	5.81	12.7	5.76	12.6	5.70
0	13.7	4.96	13.6	4.91	13.5	4.86	13.3	4.81	13.2	4.76	13.1	4.72
7	13.5	4.13	13.3	4.09	13.2	4.05	13.1	4.01	12.9	3.97	12.8	3.93
24	17.5	4.75	17.3	4.70	17.2	4.66	17.0	4.61	16.8	4.56	16.7	4.52

NOTE

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

3. Capacity Table

360 Cassette

(5) AC120RN4PKG/EU+AC120RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.18	12.3	9.3	3.25	12.8	9.6	3.31	13.2	9.9	3.38	13.5	9.8	3.42	14.2	9.7	3.45	14.9	9.5	3.52
21	11.1	8.6	3.35	11.7	8.9	3.42	12.2	9.2	3.49	12.6	9.5	3.56	12.9	9.4	3.60	13.5	9.3	3.63	14.2	9.1	3.70
35	10.6	8.2	4.19	11.2	8.5	4.27	11.6	8.7	4.36	12.0	9.0	4.45	12.2	8.9	4.49	12.9	8.8	4.54	13.5	8.6	4.63
46	9.0	7.7	3.77	9.5	7.9	3.85	9.9	8.1	3.92	10.2	8.4	4.01	10.4	8.3	4.05	10.9	8.2	4.09	11.5	8.1	4.17
50	6.9	6.1	3.35	7.3	6.2	3.42	7.6	6.4	3.49	7.8	6.6	3.56	8.0	6.6	3.60	8.4	6.5	3.63	8.8	6.4	3.70

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.37	9.2	5.32	9.1	5.27	9.0	5.21	8.9	5.16	8.8	5.11
-15	11.7	5.78	11.6	5.73	11.5	5.67	11.4	5.61	11.3	5.56	11.1	5.50
-5	13.2	5.99	13.1	5.93	12.9	5.87	12.8	5.81	12.7	5.76	12.6	5.70
0	13.7	4.96	13.6	4.91	13.5	4.86	13.3	4.81	13.2	4.76	13.1	4.72
7	13.5	4.13	13.3	4.09	13.2	4.05	13.1	4.01	12.9	3.97	12.8	3.93
24	17.5	4.75	17.3	4.70	17.2	4.66	17.0	4.61	16.8	4.56	16.7	4.52

NOTE

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

3. Capacity Table

360 Cassette

(6) AC140RN4PKG/EU+AC140RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.7	3.40	13.8	10.0	3.47	14.3	10.3	3.55	14.8	10.6	3.62	15.1	10.5	3.65	15.8	10.4	3.69	16.6	10.2	3.76
21	12.4	9.2	3.58	13.1	9.5	3.66	13.6	9.8	3.73	14.1	10.1	3.81	14.4	10.0	3.85	15.1	9.9	3.88	15.8	9.7	3.96
35	11.9	8.8	4.48	12.5	9.0	4.57	13.0	9.3	4.66	13.4	9.6	4.76	13.7	9.5	4.81	14.4	9.4	4.86	15.1	9.2	4.95
46	10.1	8.3	4.03	10.6	8.6	4.11	11.0	8.8	4.20	11.4	9.1	4.28	11.6	9.0	4.33	12.2	8.9	4.37	12.8	8.7	4.46
50	7.7	6.6	3.58	8.1	6.8	3.66	8.4	7.0	3.73	8.7	7.2	3.81	8.9	7.2	3.85	9.3	7.1	3.88	9.8	6.9	3.96

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.18	10.2	5.13	10.1	5.08	10.0	5.03	9.9	4.98	9.8	4.93
-15	13.8	6.13	13.6	6.07	13.5	6.01	13.4	5.95	13.2	5.89	13.1	5.83
-5	15.5	6.60	15.3	6.53	15.2	6.47	15.0	6.40	14.9	6.34	14.7	6.28
0	16.1	5.66	16.0	5.60	15.8	5.54	15.7	5.49	15.5	5.43	15.3	5.38
7	15.8	4.71	15.7	4.67	15.5	4.62	15.3	4.57	15.2	4.53	15.0	4.48
24	20.6	5.42	20.4	5.37	20.2	5.31	19.9	5.26	19.7	5.21	19.6	5.16

NOTE

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

3. Capacity Table

360 Cassette

(7) AC140RN4PKG/EU+AC140RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.7	3.35	13.8	10.0	3.42	14.3	10.3	3.49	14.8	10.6	3.56	15.1	10.5	3.59	15.8	10.4	3.63	16.6	10.2	3.70
21	12.4	9.2	3.52	13.1	9.5	3.60	13.6	9.8	3.67	14.1	10.1	3.74	14.4	10.0	3.78	15.1	9.9	3.82	15.8	9.7	3.90
35	11.9	8.8	4.40	12.5	9.0	4.49	13.0	9.3	4.59	13.4	9.6	4.68	13.7	9.5	4.73	14.4	9.4	4.77	15.1	9.2	4.87
46	10.1	8.3	3.96	10.6	8.6	4.05	11.0	8.8	4.13	11.4	9.1	4.21	11.6	9.0	4.25	12.2	8.9	4.30	12.8	8.7	4.38
50	7.7	6.6	3.52	8.1	6.8	3.60	8.4	7.0	3.67	8.7	7.2	3.74	8.9	7.2	3.78	9.3	7.1	3.82	9.8	6.9	3.90

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.09	10.2	5.04	10.1	4.99	10.0	4.94	9.9	4.89	9.8	4.85
-15	13.8	6.02	13.6	5.96	13.5	5.90	13.4	5.84	13.2	5.78	13.1	5.73
-5	15.5	6.48	15.3	6.42	15.2	6.36	15.0	6.29	14.9	6.23	14.7	6.17
0	16.1	5.56	16.0	5.50	15.8	5.45	15.7	5.39	15.5	5.34	15.3	5.29
7	15.8	4.63	15.7	4.59	15.5	4.54	15.3	4.49	15.2	4.45	15.0	4.41
24	20.6	5.33	20.4	5.27	20.2	5.22	19.9	5.17	19.7	5.12	19.6	5.07

NOTE

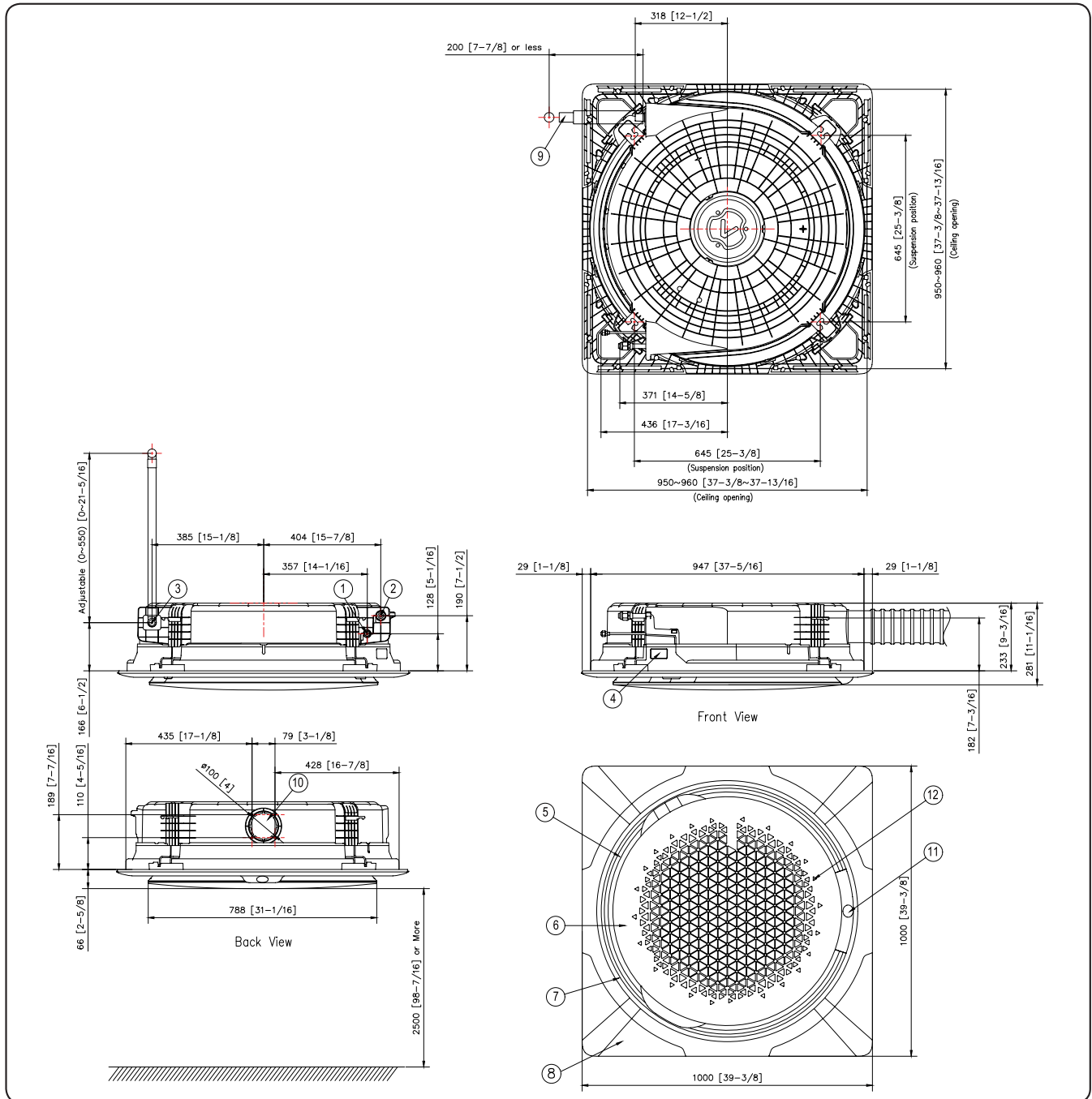
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

360 Cassette (Square)

AC071RN4PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

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

NOTE

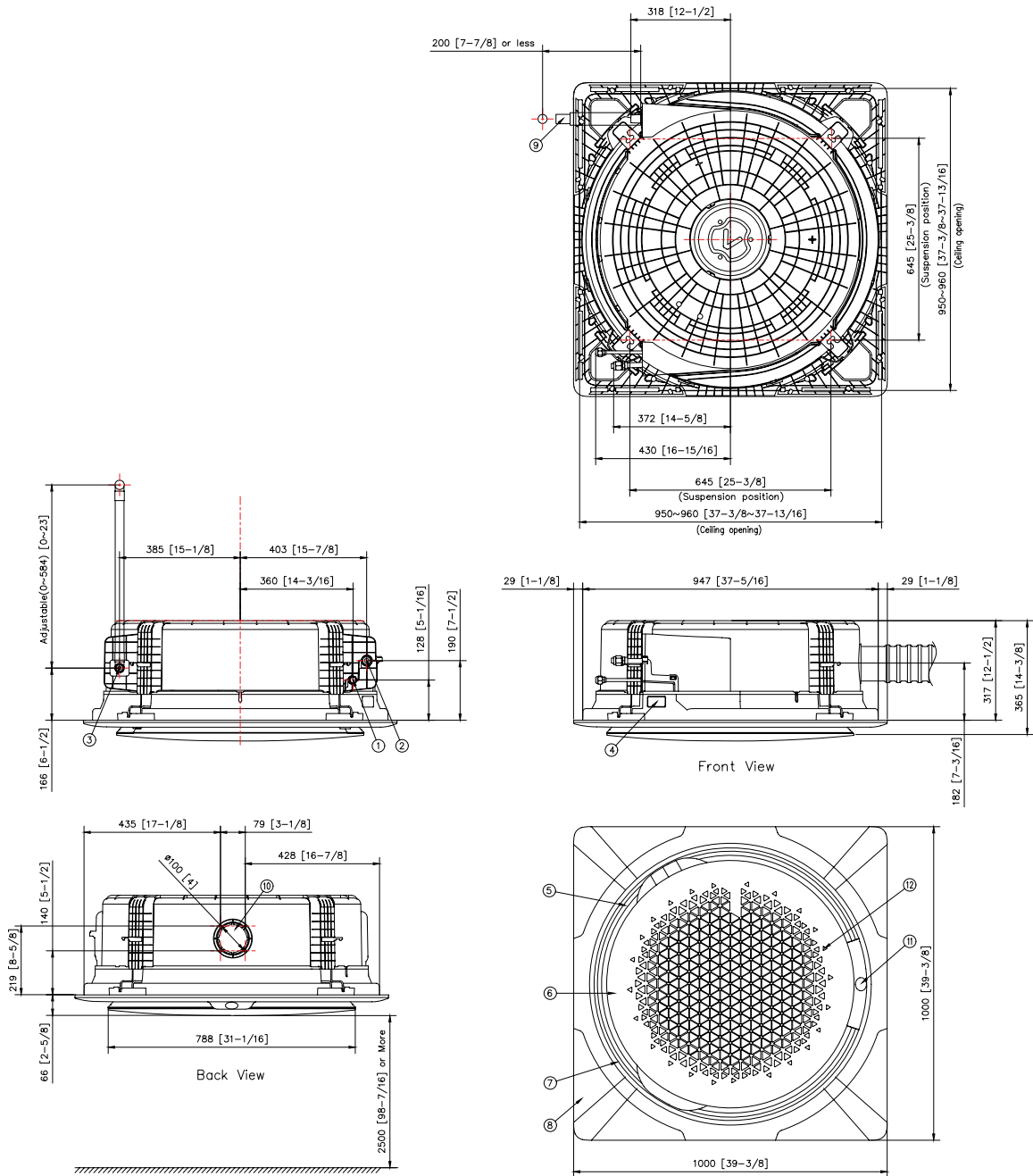
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

4. Dimensional Drawing

360 Cassette (Square)

AC100/120/140RN4PKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Ø15.88 (5/8)	8	Decoration cover	
3	Drain hose	VP25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power & Communication wiring conduits		10	Fresh air intake knockout hole	
5	Air discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

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

4. Dimensional Drawing

360 Cassette (Circle)

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

NOTE

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

4. Dimensional Drawing

360 Cassette (Circle)

No.	Name	Description	No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)	7	Suction rim for Booster fan	
2	Gas pipe connection	Ø15.88 (5/8)	8	Decoration cover	
3	Drain hose	VP25(OD32, ID25)	9	Drain hose(Accessory)	
4	Power & Communication wiring conduits		10	Fresh air intake knockout hole	
5	Air discharge opening		11	Display window	
6	Air suction grille		12	Remote controller receiver	

NOTE

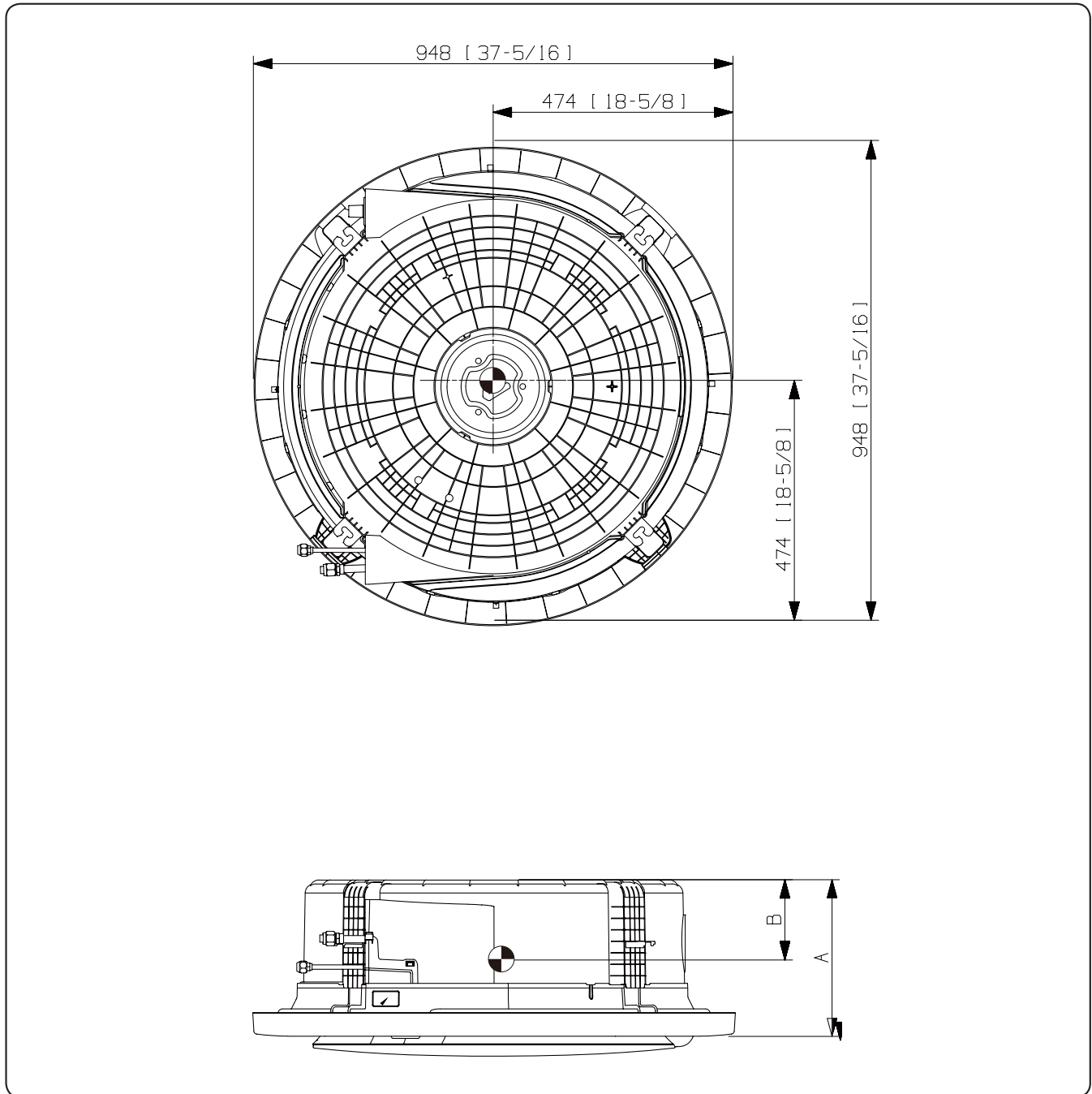
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling,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

5. Center of Gravity

360 Cassette

AC071/100/120/140RN4PKG/EU

Units : mm [inches]

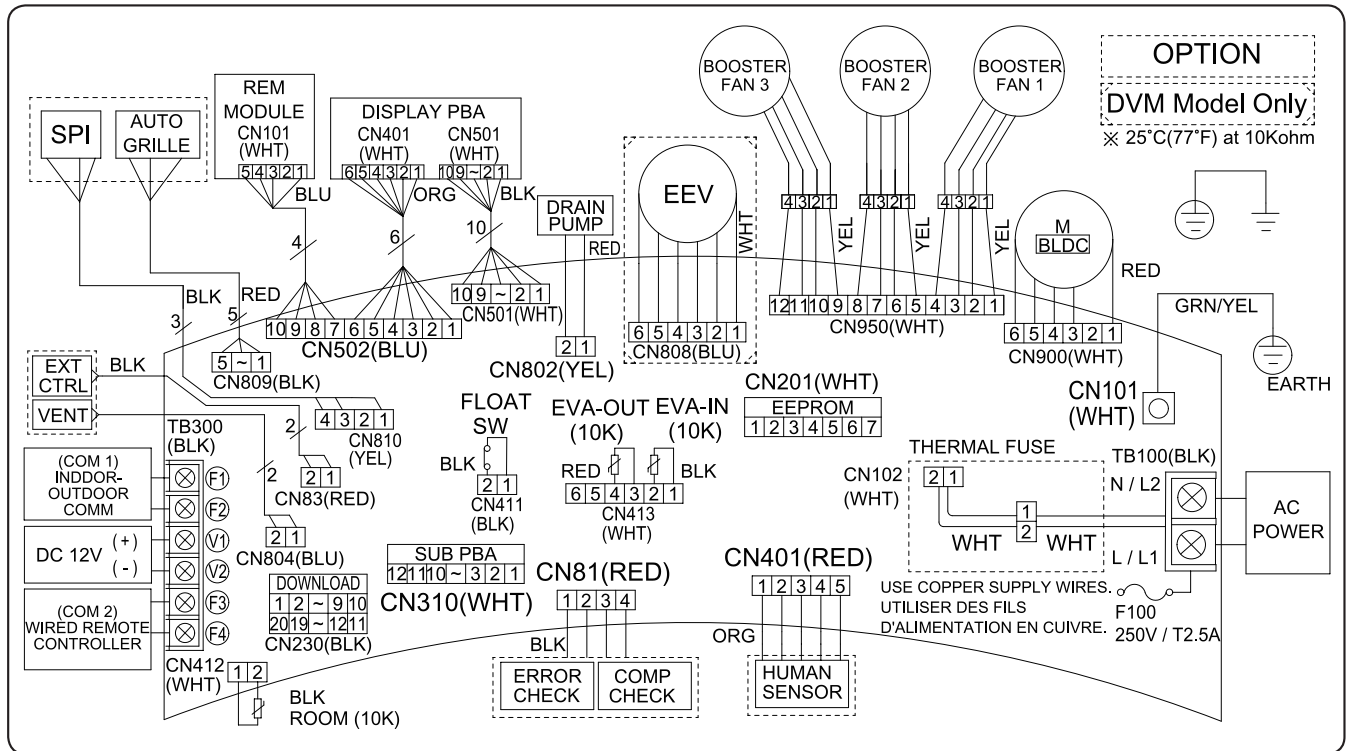


	A	B
7.1kW	233 [9-3/16]	165 [6-1/2]
9kW ~ 14kW	317 [12-1/2]	220 [8-5/8]

6. Electrical Wiring Diagram

360 Cassette

AC071/100/120/140RN4PKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

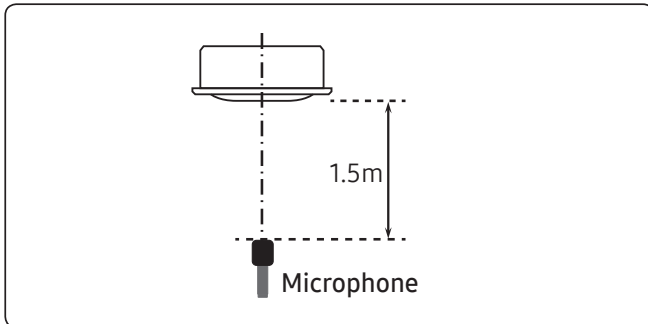
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

360 Cassette

Sound Pressure level

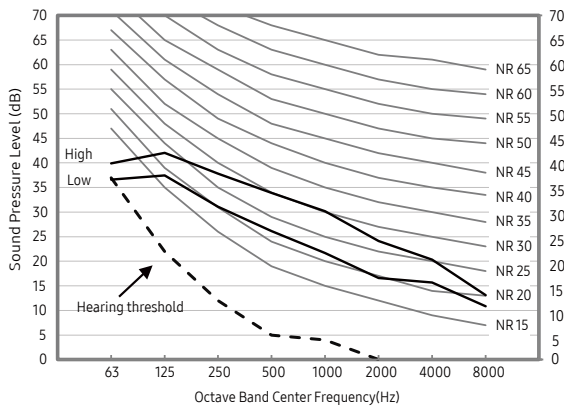
Unit: dB(A)



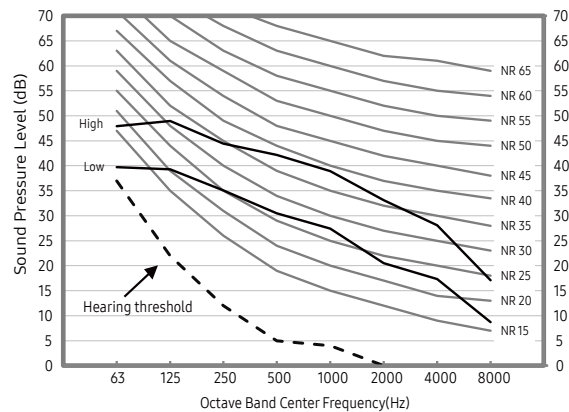
Model	HIGH	MID	LOW
AC071RN4PKG/EU	36	33	29
AC100RN4PKG/EU	44	39	33
AC120RN4PKG/EU	45	40	35
AC140RN4PKG/EU	45	41	37

- NR Curve

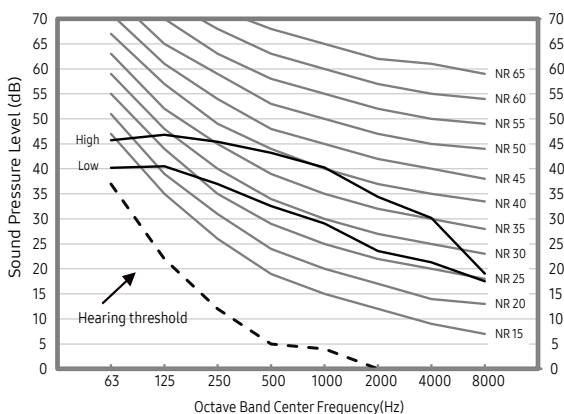
1) AC071RN4PKG/EU



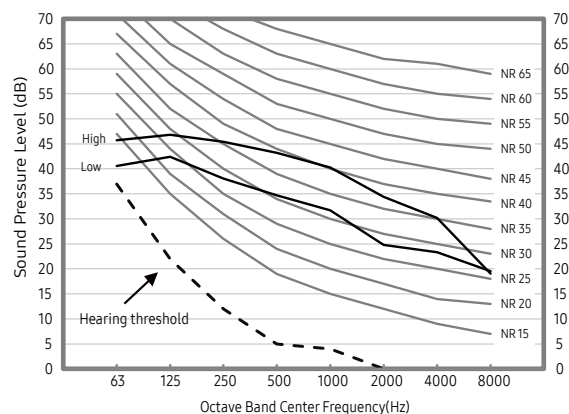
2) AC100RN4PKG/EU



3) AC120RN4PKG/EU



4) AC140RN4PKG/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.
 - dB(A) = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

360 Cassette

Sound Power level

NOTE

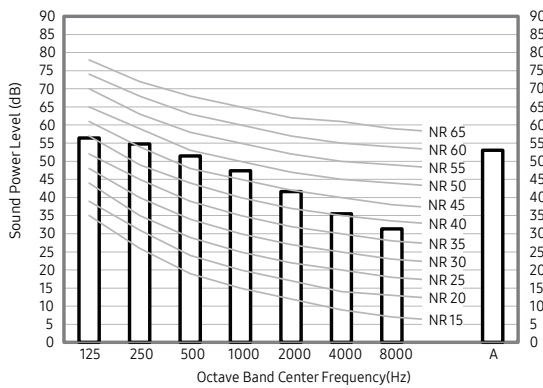
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

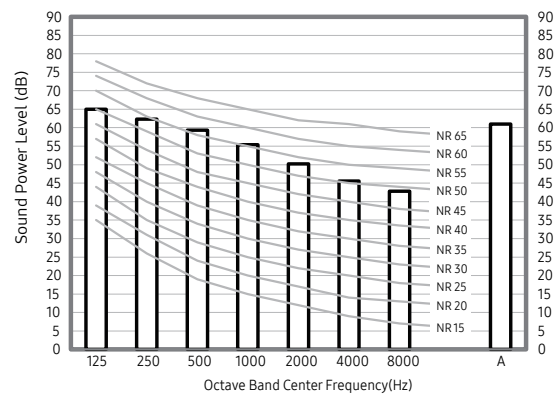
Model	Power
AC071RN4PKG/EU	53
AC100RN4PKG/EU	61
AC120RN4PKG/EU	61
AC140RN4PKG/EU	61

• NR Curve

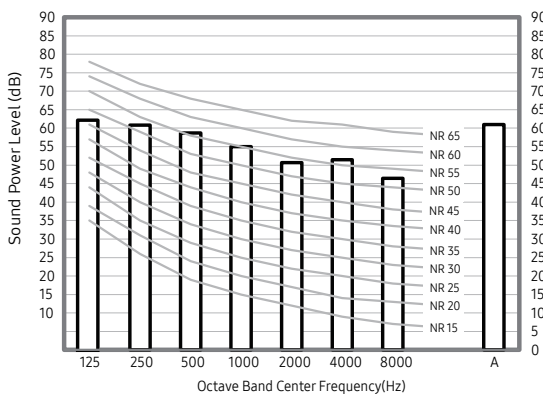
1) AC071RN4PKG/EU



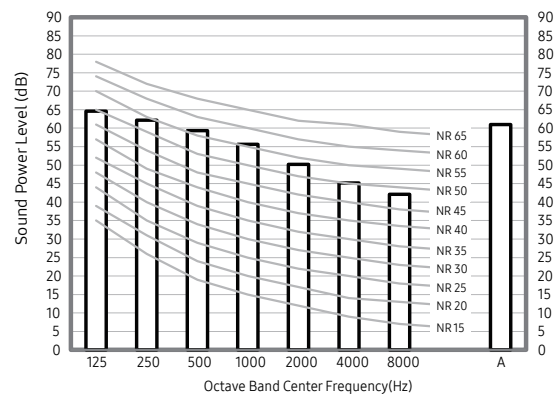
2) AC100RN4PKG/EU



3) AC120RN4PKG/EU



4) AC140RN4PKG/EU



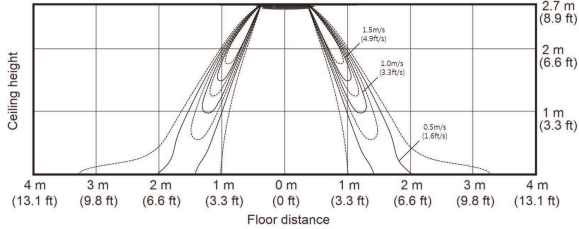
8. Temperature and air flow distribution

360 Cassette

AC071RN4PKG/EU

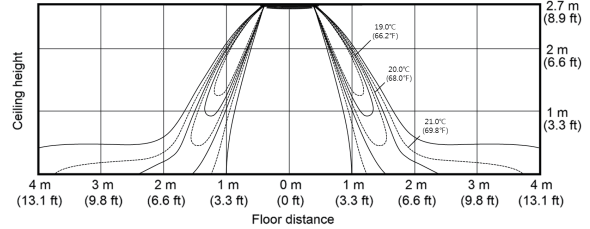
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



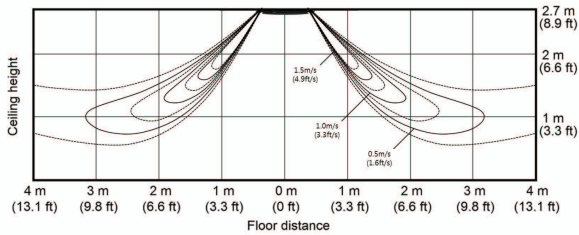
- Cooling temperature distribution

(Discharge angle : 60 degree)



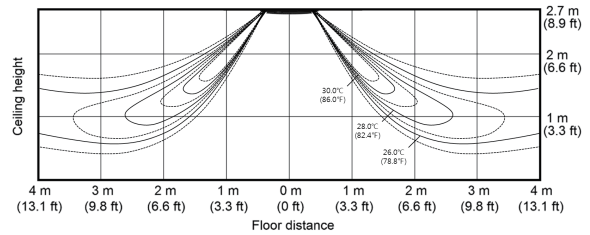
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

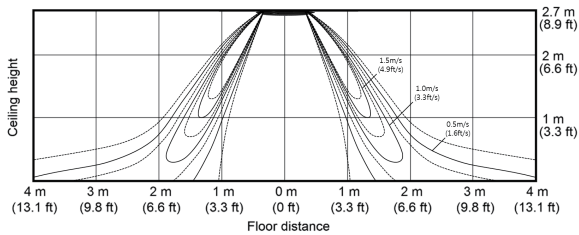
(Discharge angle : 60 degree)



AC100RN4PKG/EU

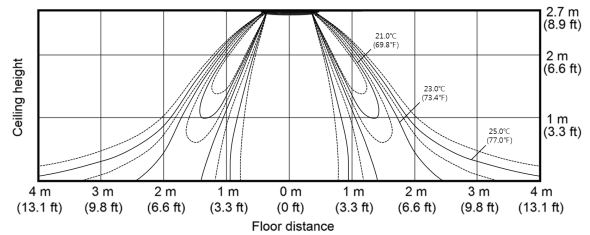
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



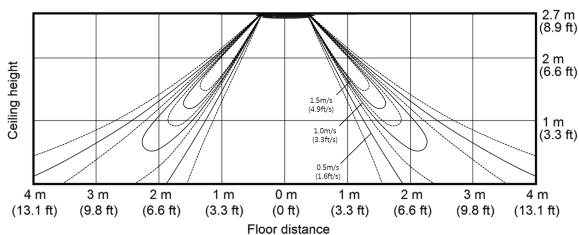
- Cooling temperature distribution

(Discharge angle : 60 degree)



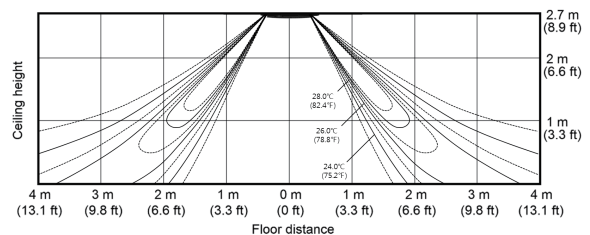
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



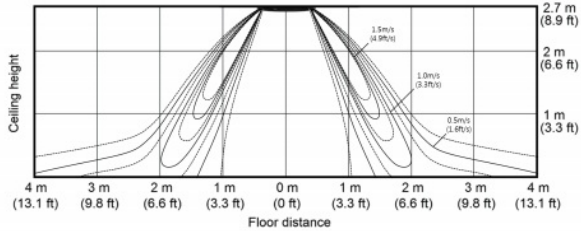
8. Temperature and air flow distribution

360 Cassette

AC120RN4PKG/EU

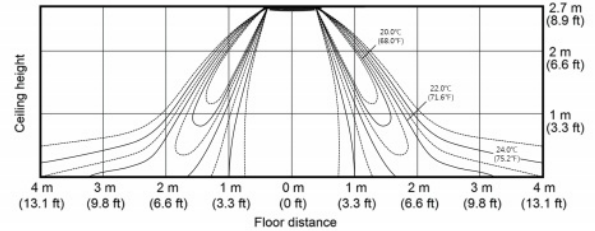
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



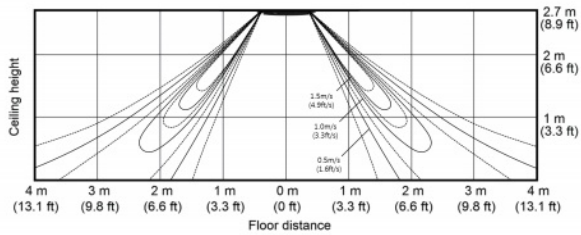
- Cooling temperature distribution

(Discharge angle : 60 degree)



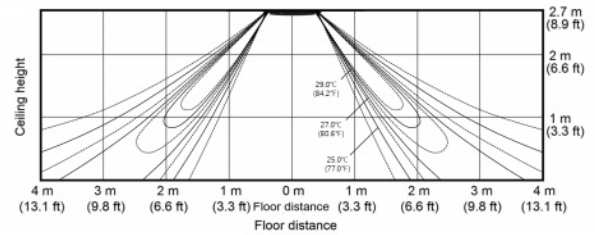
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

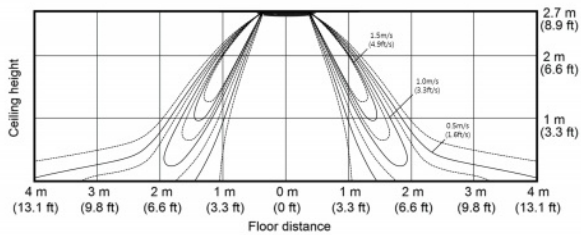
(Discharge angle : 60 degree)



AC140RN4PKG/EU

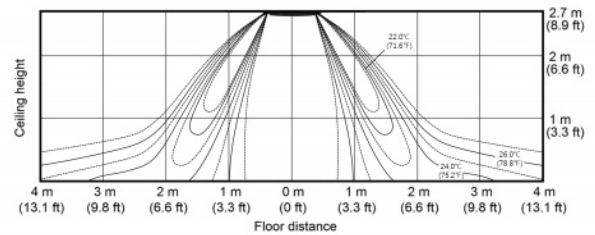
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



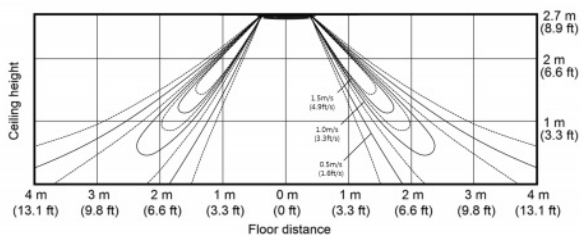
- Cooling temperature distribution

(Discharge angle : 60 degree)



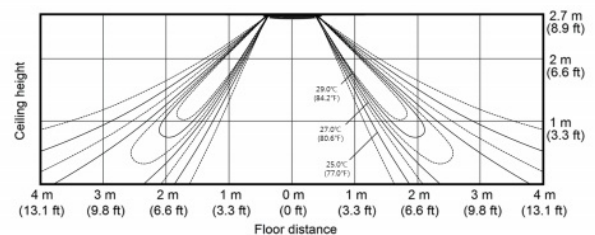
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



LSP Duct

1. Specification	103
2. Summary Table	107
3. Capacity Table	108
4. Dimensional Drawing	112
5. Center of Gravity	114
6. Electrical Wiring Diagram	115
7. Sound Data	116
8. Fan Characteristics	118

Features & Benefits

Slim Duct - Ultra-light, adaptable design

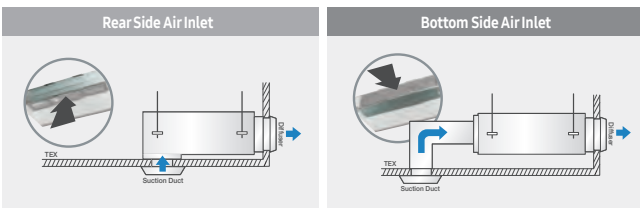


Temper any environment with industry-best lightweight design and optimized airflow

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

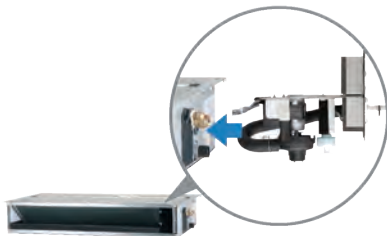
Flexible setup

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



Simple drain pump installation

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

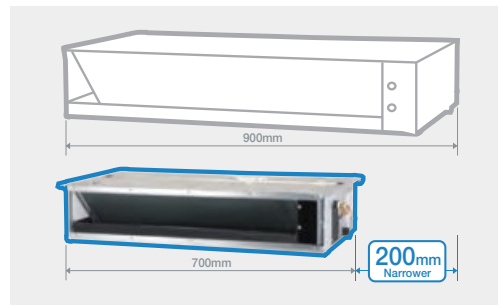


Various installation options

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

World's lightest weight

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



Easy access, easy maintenance

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



1. Specification

LSP Duct

Model Name	Indoor Unit			AC026BNLDKG/EU	AC035BNLDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Mode				-	Heat pump
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.80 / 2.60 / 3.80	0.85 / 3.50 / 4.30
			Btu/h	2,730 / 8,870 / 12,970	2,900 / 11,940 / 14,670
		Heating	kW	0.98 / 3.30 / 4.30	1.00 / 4.00 / 5.00
			Btu/h	3,340 / 11,260 / 14,670	3,410 / 13,650 / 17,060
Power	Power Input (Min/Std/Max)	Cooling	kW	0.19 / 0.68 / 1.20	0.20 / 1.12 / 1.40
		Heating	kW	0.20 / 0.87 / 1.45	0.19 / 1.21 / 1.80
	Current Input (Min/Std/Max)	Cooling	A	1.5 / 3.6 / 5.5	1.6 / 5.4 / 6.5
		Heating	A	1.3 / 4.5 / 7.0	1.3 / 5.8 / 10.5
	Current	MCA	A	11.7	11.7
		MFA	A	12.9	12.9
Efficiency	EER	Cooling	-	3.82	3.13
	COP	Heating	-	3.79	3.31
	SEER (Cooling Energy Grade)		-	6.2 (A++)	6.1 (A++)
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)
	Pdesignh		kW	2.0	2.0
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)
	Gas Pipe	Type		Flare connection	Flare connection
		Φ, mm (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.	20	20
Elevation			15	15	
Chargeless			20	20	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging	kg	0.90	0.90	
		tCO ₂ e	0.61	0.61	
Power Supply				Ø, #, V, Hz	1,220-240,50
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	8.0 / 6.5 / 5.5	10.0 / 8.5 / 7.0
			l/s	133 / 108 / 92	167 / 142 / 117
	External Static Pressure	Min/Std/Max	mmAq	0/2.5/4.0	0/2.5/4.0
Pa			0/25/39	0/25/39	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	84 x 1	84 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)	32 / 27 / 23	33 / 30 / 27
			Sound Power Level	dB(A)	53
External Dimension	Net Weight		kg	18.2	18.2
	Shipping Weight		kg	21.5	21.5
	Net Dimensions (WxHxD)		mm	900 x 199 x 440	900 x 199 x 440
	Shipping Dimensions (WxHxD)		mm	1,151 x 280 x 544	1,151 x 280 x 544
Casing	Material		-	GI Steel plate	GI Steel plate

1. Specification

LSP Duct

	Model Name	Indoor Unit		AC026BNLDKG/EU	AC035BNLDKG/EU	
		Outdoor Unit		AC026RXADKG/EU	AC035RXADKG/EU	
Indoor Unit	Control System	Infrared remote control		-	AR-EH03E	
		Wired remote control		-	MWR-WE13N MWR-WG00*N	
	Drain Pump	Drain Pump		-	-	
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	MDP-Z075SZED	MDP-Z075SZED
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	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			UB9AK5090FER	UB9AK5090FER
		Type		-	Single BLDC	Single BLDC
		Output		kW	0.86	0.86
		Oil	Type	-	POE	POE
	Initial charge		cc	320	320	
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m ³ /min	30	30
	l/s			500	500	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48
			Heating	dB(A)	47	48
		Sound Power Level		dB(A)	59	61
	External Dimension	Net Weight		kg	32.5	32.5
		Shipping Weight		kg	35.5	35.5
		Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371
	Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
		Operating Temp. Range				
		Cooling		°C	-15 ~ 46	-15 ~ 46
	Heating		°C	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

LSP Duct

Model Name	Indoor Unit			AC052BNLDKG/EU	AC071BNLDKG/EU	
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	
Mode				-	Heat pump	
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.20 / 5.00 / 6.50	1.50 / 7.10 / 8.70	
			Btu/h	4,090 / 17,060 / 22,180	5,120 / 24,230 / 29,680	
		Heating	kW	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00	
			Btu/h	3,750 / 20,470 / 24,570	6,480 / 27,300 / 30,710	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.35 / 1.69 / 2.20	0.35 / 2.38 / 3.60	
		Heating	kW	0.26 / 1.74 / 2.70	0.35 / 2.38 / 3.95	
	Current Input (Min/Std/Max)	Cooling	A	2.1 / 7.7 / 10.0	2.0 / 10.5 / 16.0	
		Heating	A	1.7 / 7.8 / 12.0	2.0 / 10.4 / 17.0	
	Current	MCA	A	18.2	18.2	
		MFA	A	20.6	20.6	
Efficiency	EER	Cooling	-	2.96	2.98	
	COP	Heating	-	3.45	3.36	
	SEER (Cooling Energy Grade)		-	6.1 (A++)	6.0 (A+)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	3.9 (A)	
	Pdesignh		kW	2.4	3.7	
	Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
Φ, mm (inch)				6.35 (1/4)	6.35 (1/4)	
Gas Pipe		Type		Flare connection	Flare connection	
		Φ, mm (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	30	50
			Elevation	m	20	30
	Chargeless		m	10	15	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging	kg	1.20	1.70		
		tCO ₂ e	0.81	1.15		
Power Supply			Ø, #, V, Hz	1,220-240,50	1,220-240,50	
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	16.0 / 13.5 / 11.0	19.2 / 16.5 / 13.5	
			l/s	267 / 225 / 183	320 / 275 / 225	
	External Static Pressure	Min/Std/Max	mmAq	0/3.0/4.0	0/3.0/4.0	
Pa			0/29/39	0/29/39		
Fan Motor	Type		-	BLDC	BLDC	
	Output		W x n	84 x 1	84 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	38 / 33 / 28	
			Sound Power Level	dB(A)	55	59
External Dimension	Net Weight		kg	22.1	22.1	
	Shipping Weight		kg	25.1	25.1	
	Net Dimensions (WxHxD)		mm	1,100 x 199 x 440	1,100 x 199 x 440	
	Shipping Dimensions (WxHxD)		mm	1,351 x 280 x 544	1,351 x 280 x 544	
Casing	Material		-	GI Steel plate	GI Steel plate	

1. Specification

LSP Duct

	Model Name	Indoor Unit		AC052BNLDKG/EU	AC071BNLDKG/EU	
		Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU	
Indoor Unit	Control System	Infrared remote control		-	AR-EH03E	
		Wired remote control		-	MWR-WE13N MWR-WG00*N	
	Drain Pump	Drain Pump		-	-	
	Additional Accessories	Drain Pump	External Model	-	-	-
			Internal Model	-	MDP-Z075SZED	MDP-Z075SZED
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	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			UB9TK3150FE4	UB4TN8200FE4
		Type		-	Twin BLDC	Twin BLDC
		Output		kW	1.51	1.89
		Oil	Type	-	POE	POE
	Initial charge		cc	500	650	
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m ³ /min	40	51
	l/s			667	850	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	49
			Heating	dB(A)	48	51
		Sound Power Level		dB(A)	62	65
	External Dimension	Net Weight		kg	43.0	51.0
		Shipping Weight		kg	46.5	55.0
		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 Plate	EGI Steel Plate
		Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50
		Heating		°C	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

LSP Duct

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026BNLDKG/EU	18.2	Max.	3.8	4.3	High	8.0 / 8.0	32	53
		Std.	2.6	3.3	Mid	6.5 / 6.5	27	-
		Min.	0.8	0.98	Low	5.5 / 5.5	23	-
AC035BNLDKG/EU	18.2	Max.	4.3	5.0	High	10.0 / 10.0	33	53
		Std.	3.5	4.0	Mid	8.5 / 8.5	30	-
		Min.	0.85	1.0	Low	7.0 / 7.0	27	-
AC052BNLDKG/EU	22.1	Max.	6.5	7.2	High	16.0 / 16.0	35	55
		Std.	5.0	6.0	Mid	13.5 / 13.5	32	-
		Min.	1.2	1.1	Low	11.0 / 11.0	29	-
AC071BNLDKG/EU	22.1	Max.	8.7	9.0	High	19.2 / 19.2	38	59
		Std.	7.1	8.0	Mid	16.5 / 16.5	33	-
		Min.	1.5	1.9	Low	13.5 / 13.5	28	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
			Volts	Min.	Max.	Cooling	Heating				
AC026BNLDKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
AC035BNLDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
AC052BNLDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6
AC071BNLDKG/EU	AC071RXADKR/EU	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6

NOTE

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

3. Capacity Table

LSP Duct

(1) AC026BNLDKG/EU + AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.5	2.0	0.49	2.7	2.1	0.50	2.8	2.1	0.51	2.9	2.2	0.52	2.9	2.2	0.52	3.1	2.2	0.53	3.2	2.1	0.54
21	2.4	1.9	0.51	2.5	2.0	0.52	2.6	2.0	0.53	2.7	2.1	0.54	2.8	2.1	0.55	2.9	2.1	0.55	3.1	2.0	0.57
35	2.3	1.8	0.64	2.4	1.9	0.65	2.5	1.9	0.67	2.6	2.0	0.68	2.7	2.0	0.69	2.8	2.0	0.69	2.9	1.9	0.71
46	2.0	1.7	0.58	2.1	1.8	0.59	2.1	1.8	0.60	2.2	1.9	0.61	2.3	1.8	0.62	2.4	1.8	0.62	2.5	1.8	0.64

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.3	1.15	2.3	1.14	2.3	1.13	2.3	1.12	2.2	1.11	2.2	1.10
-15	2.9	1.33	2.9	1.32	2.9	1.31	2.8	1.29	2.8	1.28	2.8	1.27
-5	3.3	1.24	3.3	1.23	3.2	1.22	3.2	1.21	3.2	1.19	3.1	1.18
0	3.4	1.06	3.4	1.05	3.4	1.04	3.3	1.03	3.3	1.02	3.3	1.01
7	3.4	0.89	3.3	0.88	3.3	0.87	3.3	0.86	3.2	0.85	3.2	0.84
24	4.4	1.02	4.3	1.01	4.3	1.00	4.2	0.99	4.2	0.98	4.2	0.97

NOTE

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

3. Capacity Table

LSP Duct

(2) AC035BNLDKG/EU + AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.5	0.80	3.6	2.6	0.82	3.7	2.7	0.83	3.9	2.8	0.85	3.9	2.7	0.86	4.1	2.7	0.87	4.3	2.6	0.89
21	3.3	2.4	0.84	3.4	2.5	0.86	3.6	2.5	0.88	3.7	2.6	0.90	3.7	2.6	0.90	3.9	2.6	0.91	4.1	2.5	0.93
35	3.1	2.3	1.05	3.3	2.4	1.08	3.4	2.4	1.10	3.5	2.5	1.12	3.6	2.5	1.13	3.7	2.5	1.14	3.9	2.4	1.17
46	2.6	2.3	0.95	2.8	2.4	0.97	2.9	2.4	0.99	3.0	2.5	1.01	3.0	2.5	1.02	3.2	2.5	1.03	3.3	2.4	1.05

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.60	2.8	1.59	2.8	1.57	2.7	1.56	2.7	1.54	2.7	1.53
-15	3.5	1.85	3.5	1.83	3.5	1.82	3.4	1.80	3.4	1.78	3.4	1.76
-5	4.0	1.73	4.0	1.71	3.9	1.69	3.9	1.68	3.8	1.66	3.8	1.64
0	4.2	1.48	4.1	1.47	4.1	1.45	4.0	1.44	4.0	1.42	4.0	1.41
7	4.1	1.23	4.0	1.22	4.0	1.21	4.0	1.20	3.9	1.19	3.9	1.17
24	5.3	1.42	5.3	1.41	5.2	1.39	5.1	1.38	5.1	1.36	5.0	1.35

NOTE

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

3. Capacity Table

LSP Duct

(3) AC052BNLDKG/EU + AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.7	1.21	5.1	3.8	1.23	5.3	4.0	1.26	5.5	4.1	1.28	5.6	4.0	1.30	5.9	4.0	1.31	6.2	3.9	1.34
21	4.6	3.5	1.27	4.9	3.7	1.30	5.1	3.8	1.32	5.3	3.9	1.35	5.4	3.8	1.37	5.6	3.8	1.38	5.9	3.7	1.41
35	4.4	3.4	1.59	4.7	3.5	1.62	4.9	3.6	1.66	5.0	3.7	1.69	5.1	3.7	1.71	5.4	3.6	1.72	5.6	3.6	1.76
46	3.8	3.2	1.43	4.0	3.3	1.46	4.1	3.4	1.49	4.3	3.5	1.52	4.3	3.4	1.54	4.6	3.4	1.55	4.8	3.3	1.58
50	2.9	2.5	1.27	3.0	2.6	1.30	3.2	2.6	1.32	3.3	2.7	1.35	3.3	2.7	1.37	3.5	2.7	1.38	3.7	2.6	1.41

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.2	2.31	4.2	2.28	4.1	2.26	4.1	2.24	4.1	2.22	4.0	2.19
-15	5.3	2.66	5.3	2.64	5.2	2.61	5.2	2.58	5.1	2.56	5.1	2.53
-5	6.0	2.48	5.9	2.46	5.9	2.44	5.8	2.41	5.8	2.39	5.7	2.36
0	6.2	2.13	6.2	2.11	6.1	2.09	6.1	2.07	6.0	2.05	5.9	2.03
7	6.1	1.77	6.1	1.76	6.0	1.74	5.9	1.72	5.9	1.71	5.8	1.69
24	8.0	2.04	7.9	2.02	7.8	2.00	7.7	1.98	7.6	1.96	7.6	1.94

NOTE

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

3. Capacity Table

LSP Duct

(4) AC071BNLDKG/EU + AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	5.3	1.70	7.3	5.5	1.74	7.6	5.7	1.77	7.8	5.8	1.81	8.0	5.8	1.83	8.4	5.7	1.84	8.8	5.6	1.88
21	6.6	5.1	1.79	6.9	5.2	1.83	7.2	5.4	1.87	7.5	5.6	1.90	7.6	5.5	1.92	8.0	5.5	1.94	8.4	5.3	1.98
35	6.3	4.8	2.24	6.6	5.0	2.29	6.9	5.1	2.33	7.1	5.3	2.38	7.2	5.2	2.40	7.6	5.2	2.43	8.0	5.1	2.48
46	5.3	4.5	2.02	5.6	4.6	2.06	5.9	4.8	2.10	6.0	4.9	2.14	6.2	4.9	2.16	6.5	4.8	2.18	6.8	4.7	2.23
50	4.1	3.5	1.79	4.3	3.6	1.83	4.5	3.8	1.87	4.6	3.9	1.90	4.7	3.8	1.92	4.9	3.8	1.94	5.2	3.7	1.98

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.16	5.6	3.12	5.5	3.09	5.5	3.06	5.4	3.03	5.4	3.00
-15	7.1	3.64	7.0	3.61	7.0	3.57	6.9	3.53	6.8	3.50	6.8	3.46
-5	8.0	3.40	7.9	3.37	7.8	3.33	7.8	3.30	7.7	3.27	7.6	3.23
0	8.3	2.91	8.2	2.88	8.2	2.86	8.1	2.83	8.0	2.80	7.9	2.77
7	8.2	2.43	8.1	2.40	8.0	2.38	7.9	2.36	7.8	2.33	7.8	2.31
24	10.6	2.79	10.5	2.76	10.4	2.74	10.3	2.71	10.2	2.68	10.1	2.66

NOTE

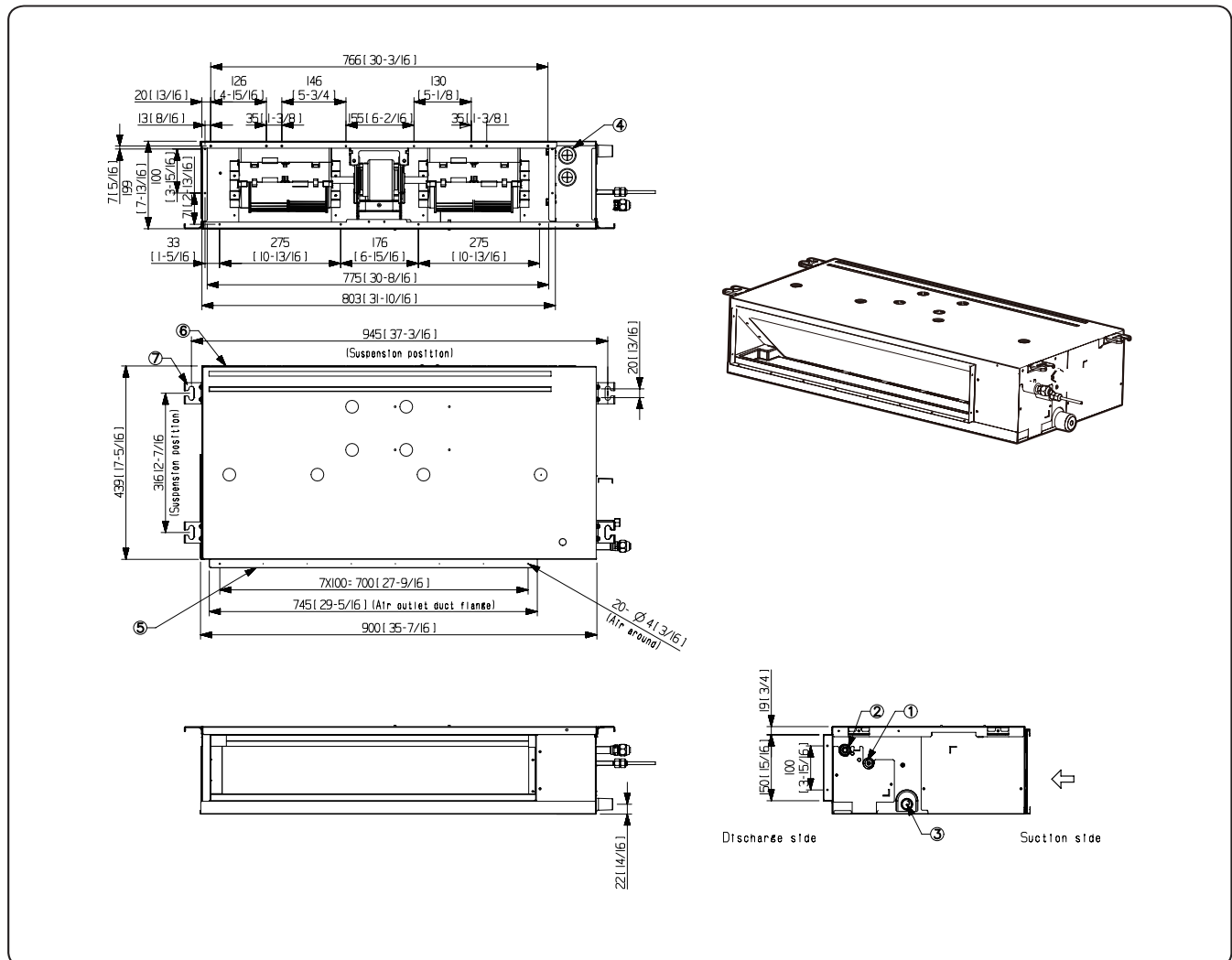
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

LSP Duct (Home Duct)

AC026/035BNLDKG/EU

Units : mm [inches]



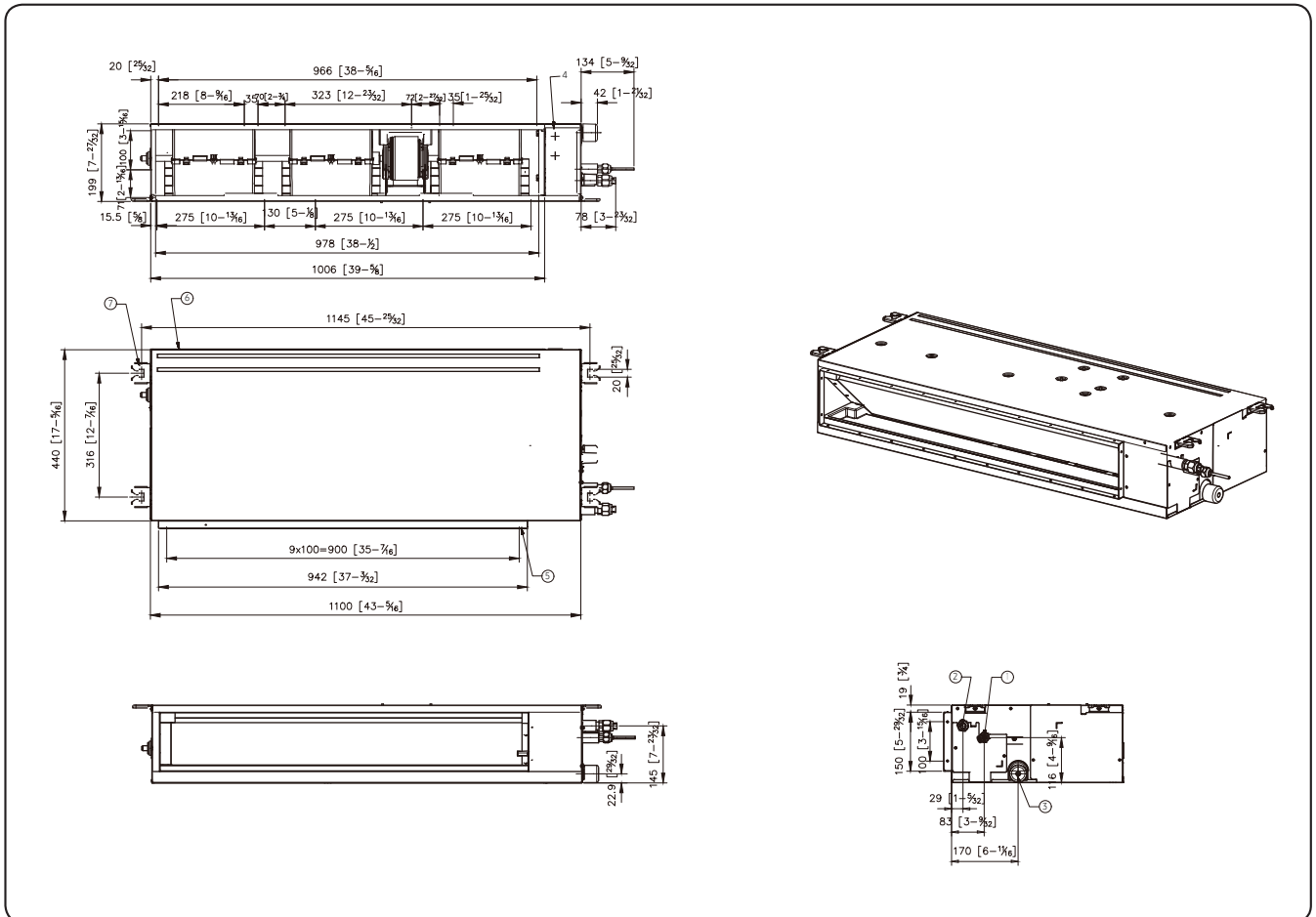
No.	Name	Description
1	Refrigerant Liquid Pipe	Φ6.35 [1/4"] Flare Connection
2	Refrigerant Gas Pipe	Φ9.52 [3/8"] Flare Connection
3	Condensate Drain (Option)	VP25 (OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Supply Air Flange	-
6	Return Air Flange	-
7	Hook	-

4. Dimensional Drawing

LSP Duct (Home Duct)

AC052/071BNLDKG/EU

Units : mm [inches]

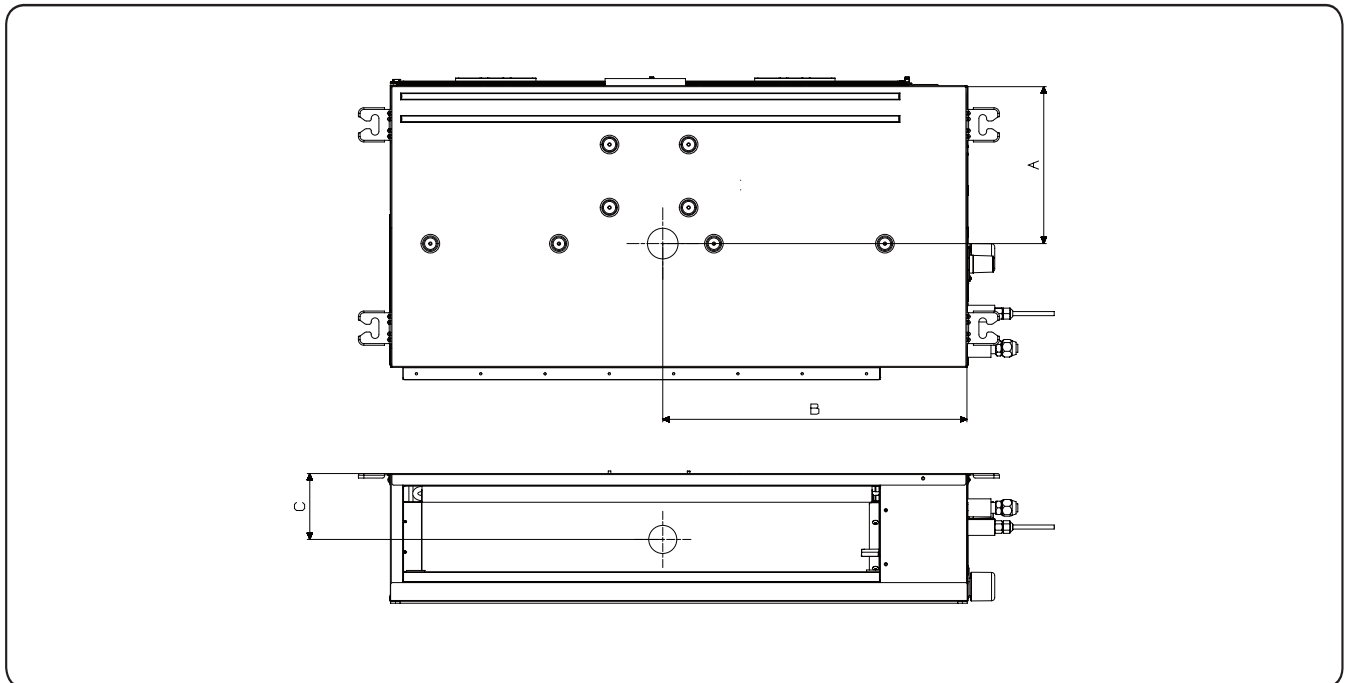


No.	Name	Description	
		AC052BNLDKG/EU	AC071BNLDKG/EU
1	Refrigerant Liquid Pipe	Φ6.35 [1/4"] Flare Connection	
2	Refrigerant Gas Pipe	Φ12.7 [1/2"] Flare Connection	Φ15.88 [5/8"] Flare Connection
3	Condensate Drain (Option)	VP25 (OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Supply Air Flange	-	
6	Return Air Flange	-	
7	Hook	-	

5. Center of Gravity

LSP Duct

Unit : mm

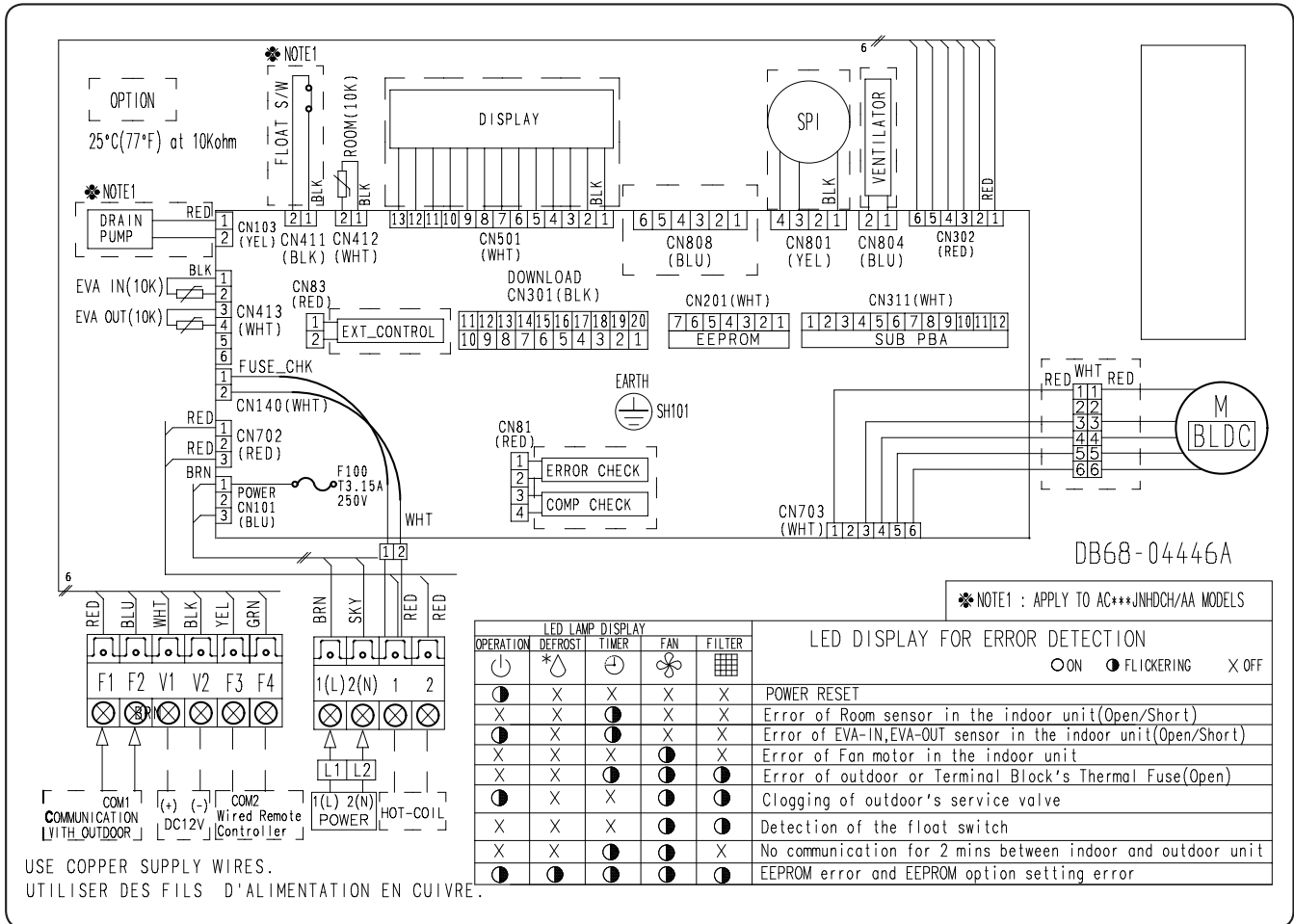


Model	A	B	C
AC026/035BNLDKG/EU	233 [9-3/16]	436 [17-3/16]	100 [3-15/16]
AC052/071BNLDKG/EU	240 [9-7/16]	540 [21-1/4]	100 [3-15/16]

6. Electrical Wiring Diagram

LSP Duct

AC026/035/052/071BNLDKG/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

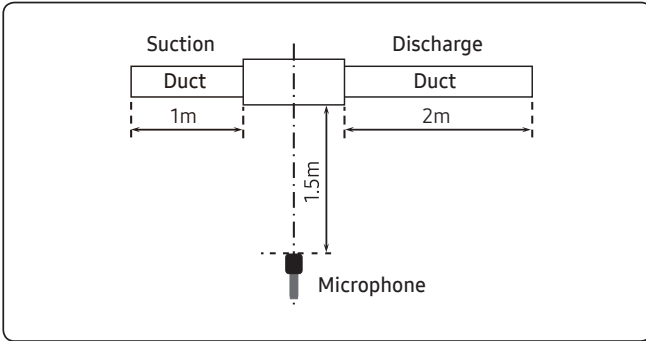
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⊕ Protective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

7. Sound Data

LSP Duct

Sound Pressure level

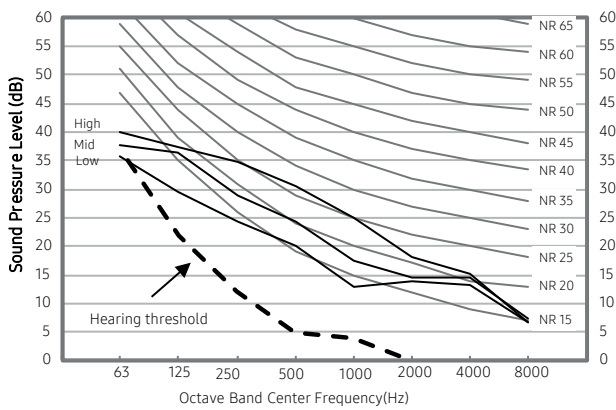
Unit: dB(A)



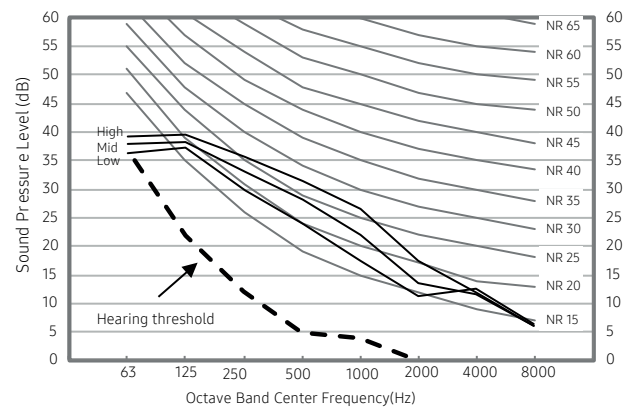
Model	High	Mid	Low
AC026BNLDKG/EU	32	27	23
AC035BNLDKG/EU	33	30	27
AC052BNLDKG/EU	35	32	29
AC071BNLDKG/EU	38	33	28

- NR Curve

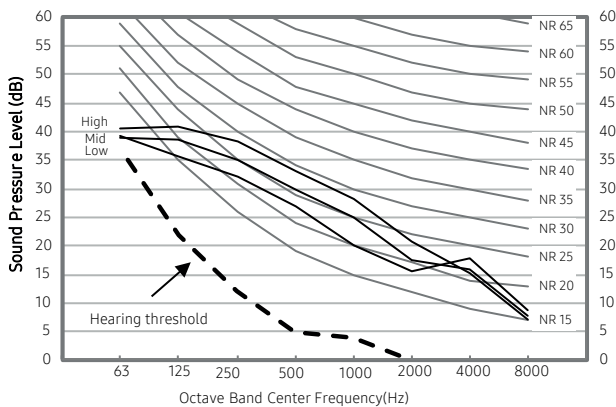
1) AC026BNLDKG/EU



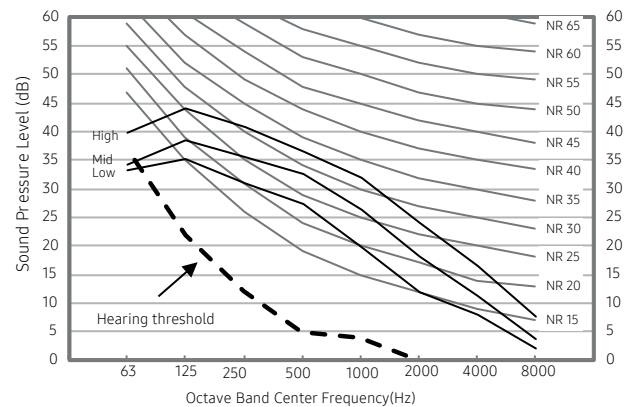
2) AC035BNLDKG/EU



3) AC052BNLDKG/EU



4) AC071BNLDKG/EU



7. Sound Data

LSP Duct

Sound Power level



NOTE

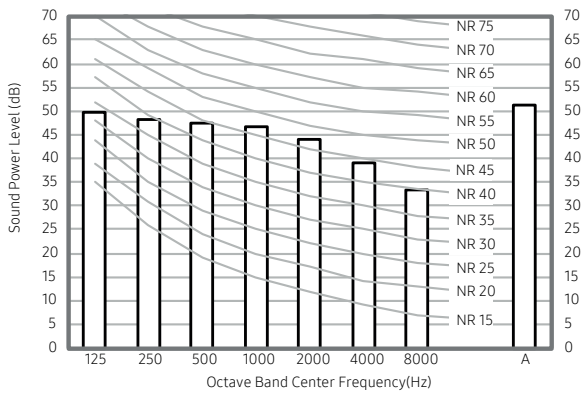
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dB(A) = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

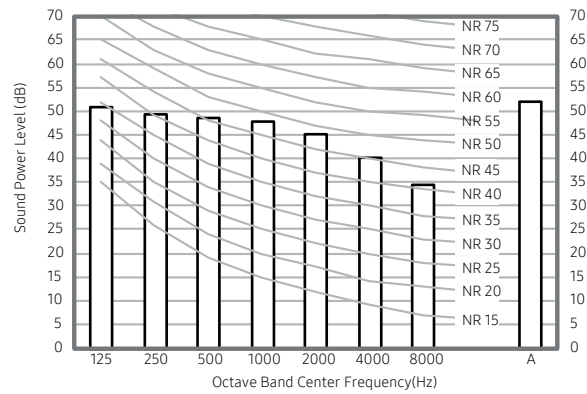
Model	Power
AC026BNLDKG/EU	53
AC035BNLDKG/EU	53
AC052BNLDKG/EU	55
AC071BNLDKG/EU	59

- NR Curve

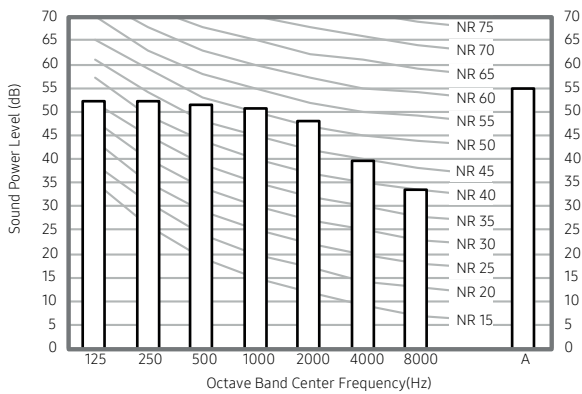
1) AC026BNLDKG/EU



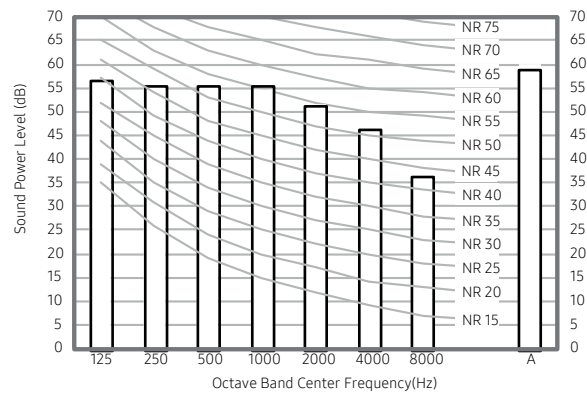
2) AC035BNLDKG/EU



3) AC052BNLDKG/EU



4) AC071BNLDKG/EU

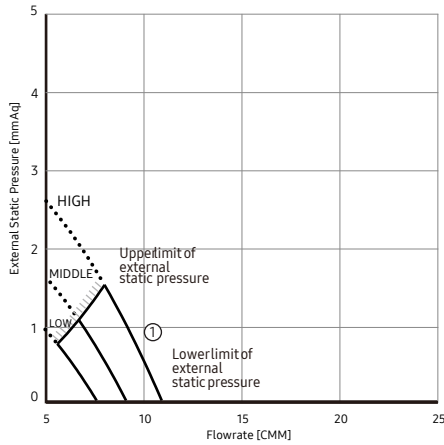


8. Fan Characteristics

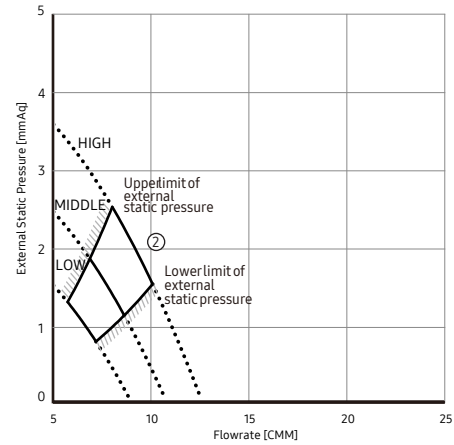
LSP Duct

1) AC026BNLDKG/EU

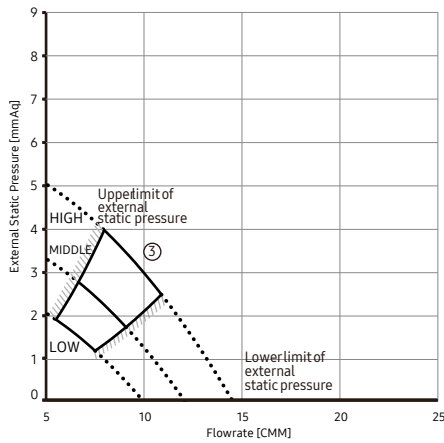
①	External Static Pressure(mmAq)	Option Code
	0≤ESP≤1.5mmAq	01C17C-1C3406-271A21-370000



②	External Static Pressure(mmAq)	Option Code
	1.5 < ESP ≤ 2.5mmAq	01C17C-1C3469-271A21-370000



③	External Static Pressure(mmAq)	Option Code
	2.5 < ESP ≤ 4mmAq	01C17C-1C34DE-271A21-370000



NOTE

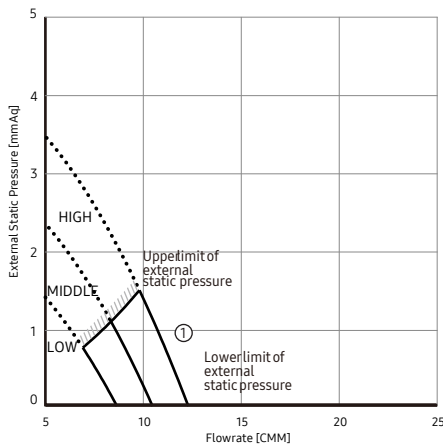
- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted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

8. Fan Characteristics

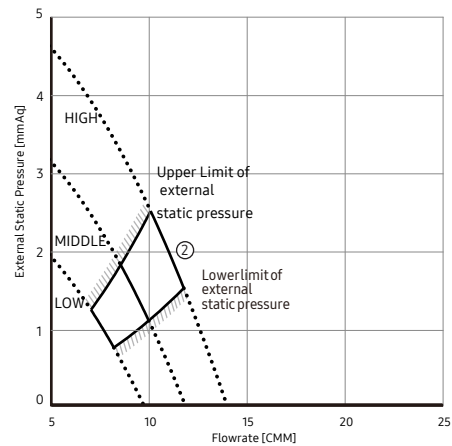
LSP Duct

2) AC035BNLDKG/EU

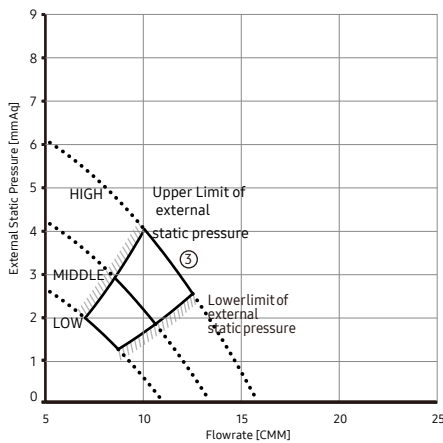
①	External Static Pressure(mmAq)	Option Code
	0≤ESP≤1.5mmAq	01C17C-1C547A-272328-370000



②	External Static Pressure(mmAq)	Option Code
	1.5 < ESP ≤ 2.5mmAq	01C17C-1C54BD-272328-370000



③	External Static Pressure(mmAq)	Option Code
	2.5 < ESP ≤ 4mmAq	01C17C-1C5922-272328-370000



NOTE

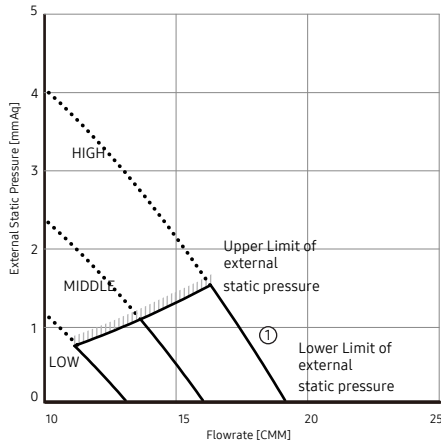
- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted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

8. Fan Characteristics

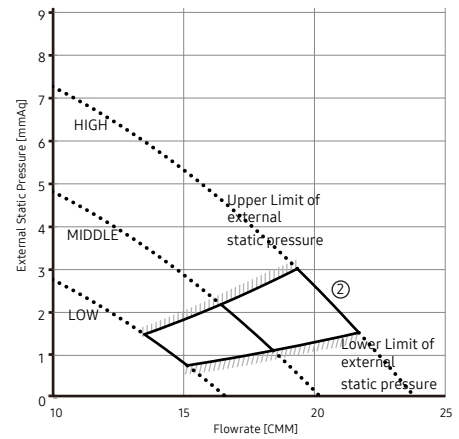
LSP Duct

3) AC052BNLDKG/EU

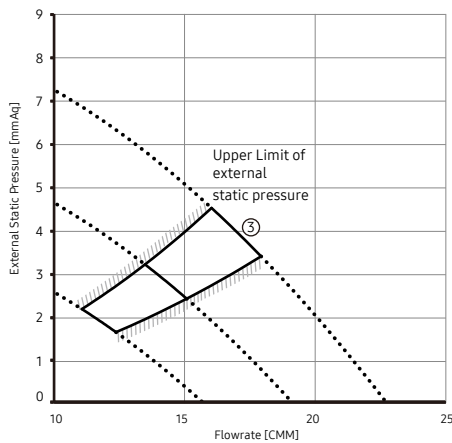
①	External Static Pressure(mmAq)	Option Code
	0≤ESP≤1.5mmAq	01C17C-1C54DE-27343C-370000



②	External Static Pressure(mmAq)	Option Code
	1.5 < ESP ≤ 3.0mmAq	01C17C-1C5931-27343C-370000



③	External Static Pressure(mmAq)	Option Code
	3.0 < ESP ≤ 4mmAq	01C17C-1C5974-27343C-370000



NOTE

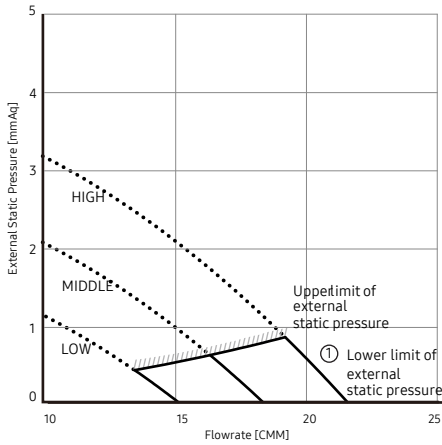
- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted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

8. Fan Characteristics

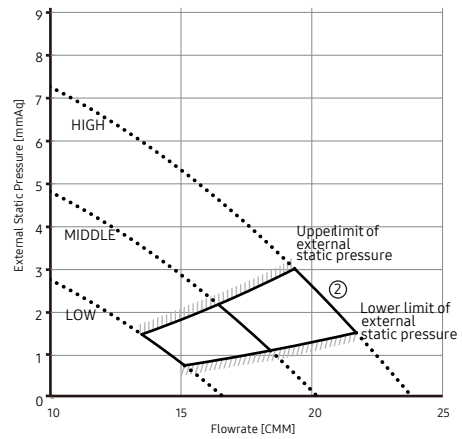
LSP Duct

4) AC071BNLDKG/EU

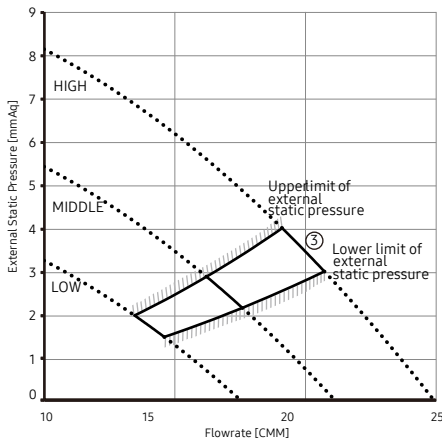
①	External Static Pressure(mmAq)	Option Code
	0<ESP≤1.5mmAq	01C17C-1C5977-274750-370005



②	External Static Pressure(mmAq)	Option Code
	1.5 < ESP ≤ 3.0mmAq	01C17C-1C59CA-274750-370005



③	External Static Pressure(mmAq)	Option Code
	3.0 < ESP ≤ 4mmAq	01C17C-1C59FC-274750-370005



NOTE

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

MSP Duct

1. Specification	124
2. Summary Table	133
3. Capacity Table	134
4. Dimensional Drawing	143
5. Center of Gravity	146
6. Electrical Wiring Diagram	147
7. Sound Data	148
8. Fan Characteristics	152

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

Model Name	Indoor Unit			AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	
	Outdoor Unit			AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.80 / 3.50 / 4.40	1.20 / 5.00 / 6.50	1.50 / 6.80 / 8.70	
			Btu/h	2,730 / 11,940 / 15,010	4,100 / 17,060 / 22,180	5,120 / 23,200 / 29,690	
		Heating	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00	
			Btu/h	3,750 / 13,650 / 16,040	3,750 / 20,470 / 24,570	6,480 / 27,300 / 30,710	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.20 / 1.02 / 1.36	0.35 / 1.60 / 2.20	0.35 / 2.32 / 3.60	
		Heating	kW	0.24 / 1.15 / 1.80	0.26 / 1.64 / 2.70	0.35 / 2.50 / 3.95	
	Current Input (Min/Std/Max)	Cooling	A	1.4 / 5.0 / 6.2	2.1 / 7.2 / 10.0	2.0 / 10.4 / 16.0	
		Heating	A	1.3 / 5.4 / 10.5	1.7 / 7.4 / 12.0	2.0 / 10.8 / 17.0	
	Current	MCA	A	12.5	19.0	19.0	
		MFA	A	13.8	20.9	20.9	
Efficiency	EER	Cooling	-	3.43	3.13	2.93	
	COP	Heating	-	3.48	3.66	3.20	
	SEER (Cooling Energy Grade)		-	6.4 (A++)	6.3 (A++)	6.1 (A++)	
	SCOP (Heating Energy Grade)		-	4.1 (A+)	4.1 (A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.4	3.7	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	Max.	m	5	5	5
			Elevation	m	20	30	50
Chargeless			Min.	m	15	20	30
			Remark	m	20	10	15
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging		kg	0.9	1.2	1.7	
			tCO ₂ e	0.61	0.81	1.15	

1. Specification

MSP Duct

Model Name	Indoor Unit		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	
	Outdoor Unit		AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	Sirocco
	Quantity		EA	2	2	2
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
		Heating (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
External Static Pressure	Min/Std/Max	mmAq	0.0 / 2.5 / 15.0	0.0 / 3.0 / 15.0	0.0 / 3.0 / 15.0	
		Pa	0.0 / 25.0 / 147.0	0.0 / 29.0 / 147.0	0.0 / 29.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	153	153	153
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	28 / 25 / 22	29 / 26 / 23	30 / 27 / 24
	Sound Power Level		dB(A)	52	55	56
External Dimension	Net Weight		kg	26.5	26.5	26.5
	Shipping Weight		kg	30.5	30.5	30.5
	Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
	Shipping Dimensions (WxHxD)		mm	1,064 x 320 x 784	1,064 x 320 x 784	1,064 x 320 x 784
Casing	Material		-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
		Max. lifting Height / Displacement	mm / Liter / h	750/24	750/24	750/24
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	Option	Option

1. Specification

MSP Duct

Model Name	Indoor Unit		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU
	Outdoor Unit		AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU
Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name			UB9AK5090FER	UB9TK3150FE4
	Type		-	Single BLDC	Twin BLDC
	Output		kW	0.86	1.51
	Oil	Type	-	POE	POE
Initial charge		cc	320	500	
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Front	Front
	Quantity		EA	1	1
	Air Flow Rate	m ³ /min		30	40
l/s		500	667		
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	40 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48	49
		Heating	dB(A)	48	51
	Sound Power Level		dB(A)	61	62
External Dimension	Net Weight		kg	32.5	43.5
	Shipping Weight		kg	35.5	46.5
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	1,023 x 742 x 413
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 46	-15 ~ 50
Operating Temp. Range	Cooling		°C	-20 ~ 24	-20 ~ 24
	Heating		°C	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

MSP Duct

Model Name	Indoor Unit			AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU	
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	3.0 / 12.0 / 13.5	
			Btu/h	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	10,240 / 41,000 / 46,100	
		Heating	kW	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	2.5 / 13.2 / 17.0	
			Btu/h	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	8,530 / 45,040 / 58,000	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.60 / 3.44 / 4.70	0.60 / 3.42 / 4.70	0.90 / 4.50 / 5.30	
		Heating	kW	0.46 / 3.50 / 5.40	0.46 / 3.42 / 5.40	0.70 / 3.86 / 5.60	
	Current Input (Min/Std/Max)	Cooling	A	3.0 / 15.2 / 20.4	1.5 / 5.3 / 7.1	5.0 / 19.7 / 24.0	
		Heating	A	2.5 / 15.4 / 23.0	1.2 / 5.3 / 8.4	4.0 / 17.1 / 26.0	
	Current	MCA	A	26.5	18.6	26.5	
		MFA	A	30.0	18.6	30.0	
Efficiency	EER	Cooling	-	2.90	2.92	2.66	
	COP	Heating	-	3.20	3.27	3.42	
	SEER (Cooling Energy Grade)		-	5.9 (A+)	5.9 (A+)	5.8 (A+)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	4.0 (A+)	
	Pdesignh		kW	5.2	5.2	6.5	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
			Max.	m	50	50	50
Elevation			m	30	30	30	
Chargeless			m	30	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging	kg	2.7	2.7	2.7		
		tCO ₂ e	1.82	1.82	1.82		

1. Specification

MSP Duct

Model Name	Indoor Unit		AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU	
	Outdoor Unit		AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Power Supply	Ø, #, V, Hz		1,2,220-240,50	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	Cooling (H/M/L)	m ³ /min	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
			l/s	467 / 417 / 367	467 / 417 / 367	550 / 467 / 383
		Heating (H/M/L)	m ³ /min	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
			l/s	467 / 417 / 367	467 / 417 / 367	550 / 467 / 383
External Static Pressure	Min/Std/Max	mmAq	0.0 / 4.0 / 15.0	0.0 / 4.0 / 15.0	0.0 / 5.2 / 15.0	
		Pa	0.0 / 39.2 / 147.0	0.0 / 39.2 / 147.0	0.0 / 51.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	
	Output		W x n	153 x 1	153 x 1	244 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	34 / 32 / 30	34 / 32 / 30	
	Sound Power Level		dB(A)	58	58	62
External Dimension	Net Weight		kg	34.0	34.0	
	Shipping Weight		kg	39.0	39.0	
	Net Dimensions (WxHxD)		mm	1,200 x 250 x 700	1,200 x 250 x 700	1,300 x 300 x 700
	Shipping Dimensions (WxHxD)		mm	1,429 x 320 x 779	1,429 x 320 x 779	1,529 x 370 x 779
Casing	Material		-	GI Steel Plate	GI Steel Plate	
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	
Drain Pump	Drain Pump		-	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-	
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	
	Virus Doctor		-	Option	Option	

1. Specification

MSP Duct

Model Name	Indoor Unit			AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name			UB8TN8300FJU	UB8TN8300FJU	UB5TN5450FJX
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	2.91	2.91	4.25
	Oil	Type	-	POE	POE	POE
Initial charge		cc	1,200	1,200	1,700	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	1	1
	Air Flow Rate			m ³ /min	72	72
		l/s	1,200	1,200	1,200	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
		Heating	dB(A)	54	54	56
	Sound Power Level		dB(A)	69	69	70
External Dimension	Net Weight		kg	75.0	74.0	81.0
	Shipping Weight		kg	80.0	79.0	86.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,096 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

MSP Duct

Model Name	Indoor Unit			AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU	
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5	
			Btu/h	10,240 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900	
		Heating	kW	2.5 / 13.2 / 17.0	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0	
			Btu/h	8,530 / 45,040 / 58,000	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.48 / 5.50	0.80 / 4.62 / 6.45	0.80 / 4.62 / 6.60	
		Heating	kW	0.70 / 3.79 / 6.40	0.70 / 4.64 / 7.36	0.70 / 4.51 / 7.50	
	Current Input (Min/Std/Max)	Cooling	A	1.9 / 6.9 / 10.0	3.7 / 20.0 / 28.0	2.1 / 7.1 / 10.5	
		Heating	A	1.5 / 5.9 / 12.0	3.5 / 20.0 / 32.0	1.9 / 7.0 / 12.0	
	Current	MCA	A	18.6	34.5	18.6	
		MFA	A	18.6	40.0	18.6	
Efficiency	EER	Cooling	-	2.67	2.90	2.90	
	COP	Heating	-	3.48	3.34	3.43	
	SEER (Cooling Energy Grade)		-	5.8 (A+)	6.0 (-)	6.0 (-)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (-)	4.0 (-)	
	Pdesignh		kW	6.5	8.4	8.4	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
		Max.	m	50	75	75	
Elevation		m	30	30	30		
Chargeless		m	30	30	30		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging		kg	2.7	2.9	2.9	
			tCO ₂ e	1.82	1.96	1.96	

1. Specification

MSP Duct

Model Name	Indoor Unit		AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU	
	Outdoor Unit		AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	Sirocco
	Quantity		EA	3	3	3
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
			l/s	550 / 467 / 383	550 / 467 / 383	550 / 467 / 383
	Air Flow Rate	Heating (H/M/L)	m ³ /min	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
l/s			550 / 467 / 383	550 / 467 / 383	550 / 467 / 383	
External Static Pressure	Min/Std/Max	mmAq	0.0 / 5.2 / 15.0	0.0 / 5.2 / 15.0	0.0 / 5.2 / 15.0	
		Pa	0.0 / 51.0 / 147.0	0.0 / 51.0 / 147.0	0.0 / 51.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	244 x 1	244 x 1	244 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	37 / 34 / 30	37 / 34 / 30	37 / 34 / 30
	Sound Power Level		dB(A)	62	62	62
External Dimension	Net Weight		kg	38.5	38.5	38.5
	Shipping Weight		kg	45.0	45.0	45.0
	Net Dimensions (WxHxD)		mm	1,300 x 300 x 700	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	1,529 x 370 x 779
Casing	Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
		Max. lifting Height / Displacement	mm / Liter / h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	Option	Option

1. Specification

MSP Duct

	Model Name		Indoor Unit	AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU	
			Outdoor Unit	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
		Type		-	Twin BLDC	Twin BLDC	Twin BLDC
		Output		kW	4.25	4.25	4.25
		Oil	Type	-	POE	POE	POE
	Initial charge		cc	1,700	1,700	1,700	
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	2	2
		Air Flow Rate			m ³ /min	72	110
			l/s	1,200	1,833	1,833	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 2	125 x 2
	Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
			Heating	dB(A)	56	54	54
		Sound Power Level		dB(A)	70	69	69
External Dimension	Net Weight		kg	80.0	91.5	90.5	
	Shipping Weight		kg	85.0	100.0	99.0	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
	Operating Temp. Range		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
Temp. Range	Cooling		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

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)					
AC035RNMDKG/EU	25.8	Max.	4.40	4.70	High	10.4	28	52
		Std.	3.50	4.00	Mid	9.2	25	
		Min.	0.80	1.10	Low	8.0	22	
AC052RNMDKG/EU	25.8	Max.	6.50	7.20	High	14.5	29	55
		Std.	5.00	6.00	Mid	12.0	26	
		Min.	1.20	1.10	Low	9.5	23	
AC071RNMDKG/EU	25.8	Max.	8.70	9.00	High	17.0	30	56
		Std.	6.80	8.00	Mid	14.0	27	
		Min.	1.50	1.90	Low	11.0	24	
AC100RNMDKG/EU	33.5	Max.	12.00	15.50	High	28.0	34	58
		Std.	10.00	11.20	Mid	25.0	32	
		Min.	3.00	2.20	Low	22.0	30	
AC120RNMDKG/EU	38.5	Max.	13.50	17.00	High	33.0	37	62
		Std.	12.00	13.20	Mid	28.0	34	
		Min.	3.00	2.50	Low	23.0	30	
AC140RNMDKG/EU	38.5	Max.	15.50	18.00	High	33.0	37	62
		Std.	13.40	15.50	Mid	28.0	34	
		Min.	3.50	3.50	Low	23.0	30	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC035RNMDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	2.5	12.5	12.5	13.8
AC052RNMDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
AC071RNMDKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
AC100RNMDKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC100RNMDKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC120RNMDKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC120RNMDKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC140RNMDKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	33.5	33.5	1.0	34.5	34.5	40.0
AC140RNMDKG/EU	AC140RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	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) AC035RNMDKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.7	0.73	3.6	2.8	0.74	3.7	2.9	0.76	3.9	3.0	0.78	3.9	2.9	0.78	4.1	2.9	0.79	4.3	2.9	0.81
21	3.3	2.6	0.77	3.4	2.7	0.78	3.6	2.7	0.80	3.7	2.8	0.82	3.7	2.8	0.82	3.9	2.8	0.83	4.1	2.7	0.85
35	3.1	2.5	0.96	3.3	2.5	0.98	3.4	2.6	1.00	3.5	2.7	1.02	3.6	2.7	1.03	3.7	2.6	1.04	3.9	2.6	1.06
46	2.6	2.4	0.86	2.8	2.4	0.88	2.9	2.5	0.90	3.0	2.6	0.92	3.0	2.5	0.93	3.2	2.5	0.94	3.3	2.5	0.96

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.53	2.8	1.51	2.8	1.50	2.7	1.48	2.7	1.47	2.7	1.45
-15	3.5	1.76	3.5	1.74	3.5	1.73	3.4	1.71	3.4	1.69	3.4	1.67
-5	4.0	1.64	4.0	1.63	3.9	1.61	3.9	1.59	3.8	1.58	3.8	1.56
0	4.2	1.41	4.1	1.39	4.1	1.38	4.0	1.37	4.0	1.35	4.0	1.34
7	4.1	1.17	4.0	1.16	4.0	1.15	4.0	1.14	3.9	1.13	3.9	1.12
24	5.3	1.35	5.3	1.34	5.2	1.32	5.1	1.31	5.1	1.30	5.0	1.28

NOTE

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

3. Capacity Table

MSP Duct

(2) AC052RNMDKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.8	1.14	5.1	3.9	1.17	5.3	4.1	1.19	5.5	4.2	1.22	5.6	4.1	1.23	5.9	4.1	1.24	6.2	4.0	1.27
21	4.6	3.6	1.20	4.9	3.8	1.23	5.1	3.9	1.25	5.3	4.0	1.28	5.4	4.0	1.29	5.6	3.9	1.31	5.9	3.8	1.33
35	4.4	3.5	1.51	4.7	3.6	1.54	4.9	3.7	1.57	5.0	3.8	1.60	5.1	3.8	1.62	5.4	3.7	1.63	5.6	3.6	1.66
46	3.8	3.2	1.36	4.0	3.3	1.38	4.1	3.4	1.41	4.3	3.5	1.44	4.3	3.5	1.45	4.6	3.5	1.47	4.8	3.4	1.50
50	2.9	2.6	1.20	3.0	2.6	1.23	3.2	2.7	1.25	3.3	2.8	1.28	3.3	2.8	1.29	3.5	2.7	1.31	3.7	2.7	1.33

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.2	2.17	4.2	2.15	4.1	2.13	4.1	2.11	4.1	2.09	4.0	2.07
-15	5.3	2.51	5.3	2.48	5.2	2.46	5.2	2.44	5.1	2.41	5.1	2.39
-5	6.0	2.34	5.9	2.32	5.9	2.30	5.8	2.27	5.8	2.25	5.7	2.23
0	6.2	2.01	6.2	1.99	6.1	1.97	6.1	1.95	6.0	1.93	5.9	1.91
7	6.1	1.67	6.1	1.66	6.0	1.64	5.9	1.62	5.9	1.61	5.8	1.59
24	8.0	1.92	7.9	1.90	7.8	1.89	7.7	1.87	7.6	1.85	7.6	1.83

NOTE

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

3. Capacity Table

MSP Duct

(3) AC071RNMDKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.6	4.9	1.66	7.0	5.1	1.69	7.3	5.2	1.73	7.5	5.4	1.76	7.6	5.3	1.78	8.0	5.3	1.80	8.4	5.2	1.83
21	6.3	4.7	1.75	6.6	4.8	1.78	6.9	5.0	1.82	7.1	5.1	1.86	7.3	5.1	1.87	7.6	5.0	1.89	8.0	4.9	1.93
35	6.0	4.5	2.18	6.3	4.6	2.23	6.6	4.8	2.27	6.8	4.9	2.32	6.9	4.9	2.34	7.3	4.8	2.37	7.6	4.7	2.41
46	5.1	4.2	1.97	5.4	4.4	2.01	5.6	4.5	2.05	5.8	4.6	2.09	5.9	4.6	2.11	6.2	4.5	2.13	6.5	4.4	2.17
50	3.9	3.3	1.75	4.1	3.5	1.78	4.3	3.6	1.82	4.4	3.7	1.86	4.5	3.6	1.87	4.7	3.6	1.89	5.0	3.5	1.93

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.32	5.6	3.28	5.5	3.25	5.5	3.22	5.4	3.19	5.4	3.15
-15	7.1	3.83	7.0	3.79	7.0	3.75	6.9	3.71	6.8	3.68	6.8	3.64
-5	8.0	3.57	7.9	3.54	7.8	3.50	7.8	3.47	7.7	3.43	7.6	3.40
0	8.3	3.06	8.2	3.03	8.2	3.00	8.1	2.97	8.0	2.94	7.9	2.91
7	8.2	2.55	8.1	2.53	8.0	2.50	7.9	2.48	7.8	2.45	7.8	2.43
24	10.6	2.93	10.5	2.90	10.4	2.88	10.3	2.85	10.2	2.82	10.1	2.79

NOTE

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

3. Capacity Table

MSP Duct

(4) AC100RNMDKG/EU+AC100RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.5	2.46	10.3	7.8	2.51	10.7	8.0	2.56	11.0	8.3	2.61	11.2	8.2	2.64	11.8	8.1	2.67	12.4	7.9	2.72
21	9.3	7.2	2.59	9.8	7.4	2.64	10.2	7.6	2.70	10.5	7.9	2.75	10.7	7.8	2.78	11.2	7.7	2.81	11.8	7.6	2.86
35	8.8	6.8	3.24	9.3	7.1	3.30	9.7	7.3	3.37	10.0	7.5	3.44	10.2	7.4	3.47	10.7	7.4	3.51	11.2	7.2	3.58
46	7.5	6.4	3.40	7.9	6.6	3.47	8.2	6.8	3.54	8.5	7.0	3.61	8.7	6.9	3.65	9.1	6.9	3.68	9.6	6.7	3.76
50	5.8	5.0	2.82	6.1	5.2	2.87	6.3	5.4	2.93	6.5	5.5	2.99	6.6	5.5	3.02	7.0	5.4	3.05	7.3	5.3	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
-20	7.9	4.64	7.8	4.60	7.7	4.55	7.7	4.50	7.6	4.46	7.5	4.41
-15	9.9	5.00	9.8	4.95	9.7	4.90	9.6	4.85	9.6	4.80	9.5	4.75
-5	11.2	5.36	11.1	5.30	11.0	5.25	10.9	5.20	10.8	5.15	10.7	5.09
0	11.7	4.28	11.5	4.24	11.4	4.20	11.3	4.16	11.2	4.12	11.1	4.08
7	11.4	3.57	11.3	3.54	11.2	3.50	11.1	3.47	11.0	3.43	10.9	3.40
24	14.9	4.11	14.7	4.07	14.6	4.03	14.4	3.98	14.3	3.94	14.1	3.91

NOTE

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

3. Capacity Table

MSP Duct

(5) AC100RNMDKG/EU+AC100RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.5	2.45	10.3	7.8	2.50	10.7	8.0	2.55	11.0	8.3	2.60	11.2	8.2	2.63	11.8	8.1	2.65	12.4	7.9	2.70
21	9.3	7.2	2.58	9.8	7.4	2.63	10.2	7.6	2.68	10.5	7.9	2.74	10.7	7.8	2.76	11.2	7.7	2.79	11.8	7.6	2.85
35	8.8	6.8	3.22	9.3	7.1	3.28	9.7	7.3	3.35	10.0	7.5	3.42	10.2	7.4	3.45	10.7	7.4	3.49	11.2	7.2	3.56
46	7.8	6.6	3.54	8.2	6.8	3.61	8.5	7.0	3.69	8.8	7.2	3.76	9.0	7.2	3.80	9.4	7.1	3.84	9.9	7.0	3.91
50	6.4	5.6	3.15	6.7	5.8	3.22	7.0	5.9	3.28	7.2	6.1	3.35	7.3	6.1	3.39	7.7	6.0	3.42	8.1	5.9	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
-20	7.9	4.54	7.8	4.49	7.7	4.45	7.7	4.40	7.6	4.36	7.5	4.31
-15	9.9	4.88	9.8	4.84	9.7	4.79	9.6	4.74	9.6	4.69	9.5	4.65
-5	11.2	5.23	11.1	5.18	11.0	5.13	10.9	5.08	10.8	5.03	10.7	4.98
0	11.7	4.19	11.5	4.15	11.4	4.10	11.3	4.06	11.2	4.02	11.1	3.98
7	11.4	3.49	11.3	3.45	11.2	3.42	11.1	3.39	11.0	3.35	10.9	3.32
24	14.9	4.01	14.7	3.97	14.6	3.93	14.4	3.89	14.3	3.85	14.1	3.82

NOTE

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

3. Capacity Table

MSP Duct

(6) AC120RNMDKG/EU+AC120RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.22	12.3	9.3	3.28	12.8	9.6	3.35	13.2	9.9	3.42	13.5	9.8	3.45	14.2	9.7	3.49	14.9	9.5	3.56
21	11.1	8.6	3.39	11.7	8.9	3.46	12.2	9.2	3.53	12.6	9.5	3.60	12.9	9.4	3.64	13.5	9.3	3.67	14.2	9.1	3.75
35	10.6	8.2	4.24	11.2	8.5	4.32	11.6	8.7	4.41	12.0	9.0	4.50	12.2	8.9	4.55	12.9	8.8	4.59	13.5	8.6	4.68
46	9.0	7.7	3.81	9.5	7.9	3.89	9.9	8.1	3.97	10.2	8.4	4.05	10.4	8.3	4.09	10.9	8.2	4.13	11.5	8.1	4.21
50	6.9	6.1	3.39	7.3	6.2	3.46	7.6	6.4	3.53	7.8	6.6	3.60	8.0	6.6	3.64	8.4	6.5	3.67	8.8	6.4	3.75

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
-20	9.3	5.12	9.2	5.07	9.1	5.02	9.0	4.97	8.9	4.92	8.8	4.87
-15	11.7	5.51	11.6	5.46	11.5	5.40	11.4	5.35	11.3	5.30	11.1	5.24
-5	13.2	5.71	13.1	5.65	12.9	5.60	12.8	5.54	12.7	5.49	12.6	5.43
0	13.7	4.73	13.6	4.68	13.5	4.63	13.3	4.59	13.2	4.54	13.1	4.49
7	13.5	3.94	13.3	3.90	13.2	3.86	13.1	3.82	12.9	3.78	12.8	3.75
24	17.5	4.53	17.3	4.48	17.2	4.44	17.0	4.39	16.8	4.35	16.7	4.31

NOTE

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

3. Capacity Table

MSP Duct

(7) AC120RNMDKG/EU+AC120RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.20	12.3	9.3	3.27	12.8	9.6	3.34	13.2	9.9	3.40	13.5	9.8	3.44	14.2	9.7	3.47	14.9	9.5	3.54
21	11.1	8.6	3.37	11.7	8.9	3.44	12.2	9.2	3.51	12.6	9.5	3.58	12.9	9.4	3.62	13.5	9.3	3.66	14.2	9.1	3.73
35	10.6	8.2	4.22	11.2	8.5	4.30	11.6	8.7	4.39	12.0	9.0	4.48	12.2	8.9	4.52	12.9	8.8	4.57	13.5	8.6	4.66
46	9.0	7.5	3.79	9.5	7.8	3.87	9.9	8.0	3.95	10.2	8.2	4.03	10.4	8.2	4.07	10.9	8.1	4.11	11.5	7.9	4.19
50	6.9	5.9	3.37	7.3	6.1	3.44	7.6	6.3	3.51	7.8	6.5	3.58	8.0	6.4	3.62	8.4	6.3	3.66	8.8	6.2	3.73

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.03	9.2	4.98	9.1	4.93	9.0	4.88	8.9	4.83	8.8	4.78
-15	11.7	5.41	11.6	5.36	11.5	5.31	11.4	5.25	11.3	5.20	11.1	5.15
-5	13.2	5.61	13.1	5.55	12.9	5.50	12.8	5.44	12.7	5.39	12.6	5.33
0	13.7	4.64	13.6	4.59	13.5	4.55	13.3	4.50	13.2	4.46	13.1	4.41
7	13.5	3.87	13.3	3.83	13.2	3.79	13.1	3.75	12.9	3.71	12.8	3.68
24	17.5	4.45	17.3	4.40	17.2	4.36	17.0	4.31	16.8	4.27	16.7	4.23

NOTE

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

3. Capacity Table

MSP Duct

(8) AC140RNMDKG/EU+AC140RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.9	3.30	13.8	10.2	3.37	14.3	10.5	3.44	14.8	10.8	3.51	15.1	10.7	3.55	15.8	10.6	3.58	16.6	10.4	3.65
21	12.4	9.4	3.48	13.1	9.7	3.55	13.6	10.0	3.62	14.1	10.3	3.70	14.4	10.2	3.73	15.1	10.1	3.77	15.8	9.9	3.85
35	11.9	8.9	4.35	12.5	9.2	4.44	13.0	9.5	4.53	13.4	9.8	4.62	13.7	9.7	4.67	14.4	9.6	4.71	15.1	9.4	4.81
46	10.1	8.4	3.91	10.6	8.6	3.99	11.0	8.9	4.07	11.4	9.2	4.16	11.6	9.1	4.20	12.2	9.0	4.24	12.8	8.8	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.21	10.2	5.16	10.1	5.10	10.0	5.05	9.9	5.00	9.8	4.95
-15	13.8	6.15	13.6	6.09	13.5	6.03	13.4	5.97	13.2	5.91	13.1	5.85
-5	15.5	6.63	15.3	6.56	15.2	6.50	15.0	6.43	14.9	6.37	14.7	6.30
0	16.1	5.68	16.0	5.62	15.8	5.57	15.7	5.51	15.5	5.46	15.3	5.40
7	15.8	4.73	15.7	4.69	15.5	4.64	15.3	4.59	15.2	4.55	15.0	4.50
24	20.6	5.44	20.4	5.39	20.2	5.34	19.9	5.28	19.7	5.23	19.6	5.18

NOTE

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

3. Capacity Table

MSP Duct

(9) AC140RNMDKG/EU+AC140RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.9	3.30	13.8	10.2	3.37	14.3	10.5	3.44	14.8	10.8	3.51	15.1	10.7	3.55	15.8	10.6	3.58	16.6	10.4	3.65
21	12.4	9.4	3.48	13.1	9.7	3.55	13.6	10.0	3.62	14.1	10.3	3.70	14.4	10.2	3.73	15.1	10.1	3.77	15.8	9.9	3.85
35	11.9	8.9	4.35	12.5	9.2	4.44	13.0	9.5	4.53	13.4	9.8	4.62	13.7	9.7	4.67	14.4	9.6	4.71	15.1	9.4	4.81
46	10.1	8.4	3.91	10.6	8.6	3.99	11.0	8.9	4.07	11.4	9.2	4.16	11.6	9.1	4.20	12.2	9.0	4.24	12.8	8.8	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.06	10.2	5.01	10.1	4.96	10.0	4.91	9.9	4.86	9.8	4.81
-15	13.8	5.98	13.6	5.92	13.5	5.86	13.4	5.80	13.2	5.75	13.1	5.69
-5	15.5	6.44	15.3	6.38	15.2	6.31	15.0	6.25	14.9	6.19	14.7	6.13
0	16.1	5.52	16.0	5.47	15.8	5.41	15.7	5.36	15.5	5.30	15.3	5.25
7	15.8	4.60	15.7	4.56	15.5	4.51	15.3	4.46	15.2	4.42	15.0	4.38
24	20.6	5.29	20.4	5.24	20.2	5.19	19.9	5.13	19.7	5.08	19.6	5.03

NOTE

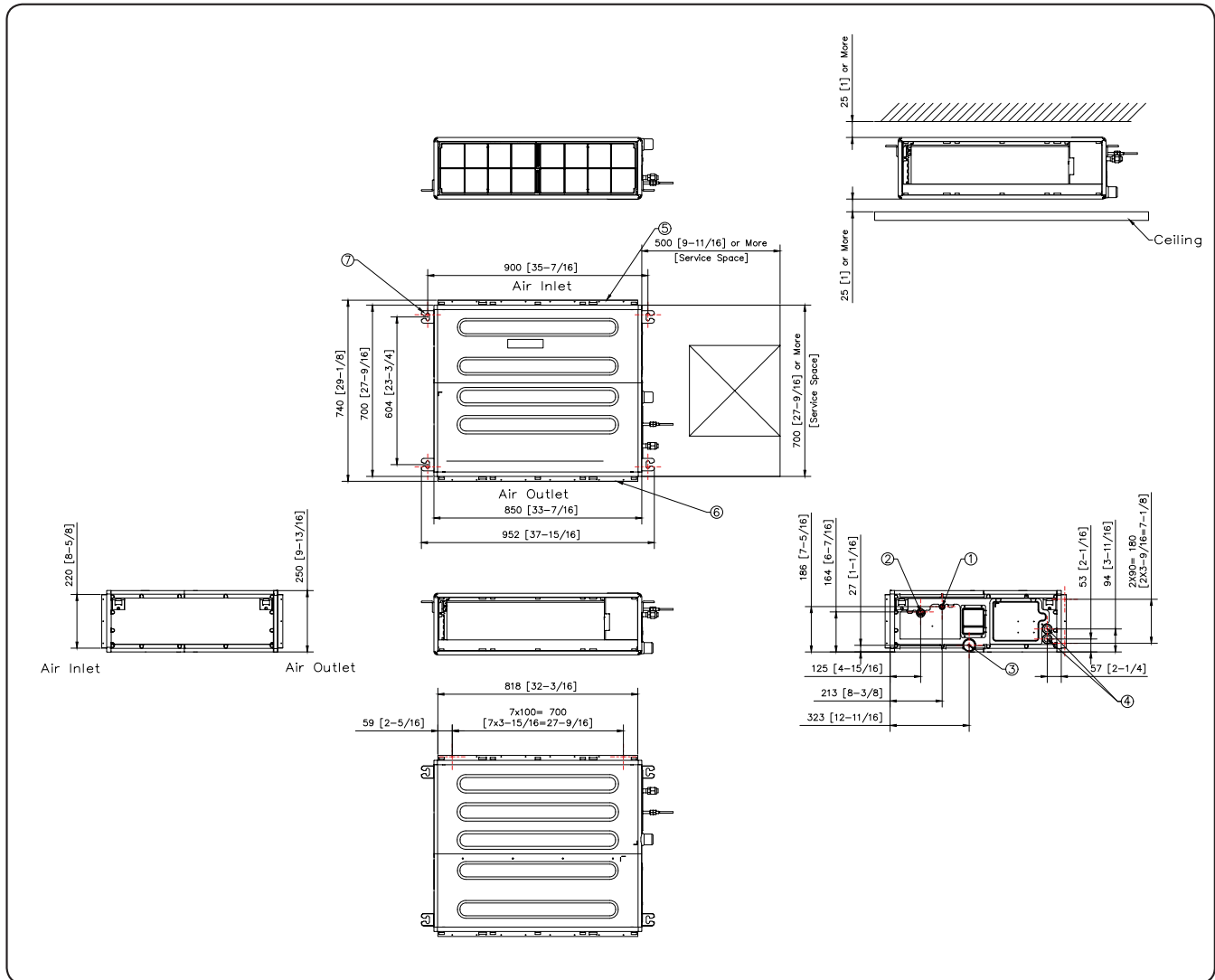
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

MSP Duct

AC035/052/071RNMDKG/EU

Units : mm [inches]



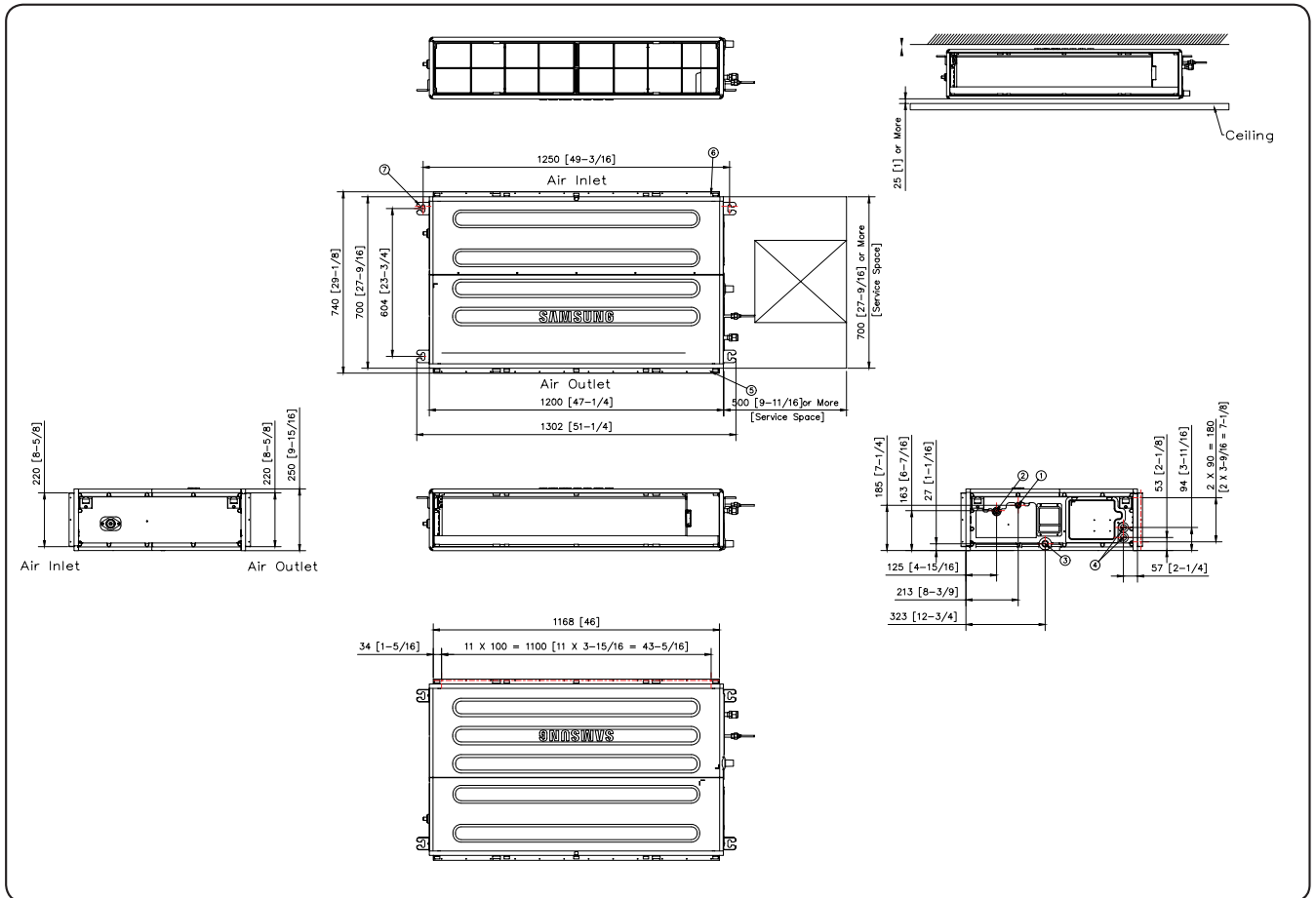
No.	Name	Description		
		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU
1	Liquid pipe connection		Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection		VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit			
5	Air suction flange			
6	Air discharge flange			
7	Hook			Use M8-M10 bolt(4ea)

4. Dimensional Drawing

MSP Duct

AC100RNMDKG/EU

Units : mm [inches]



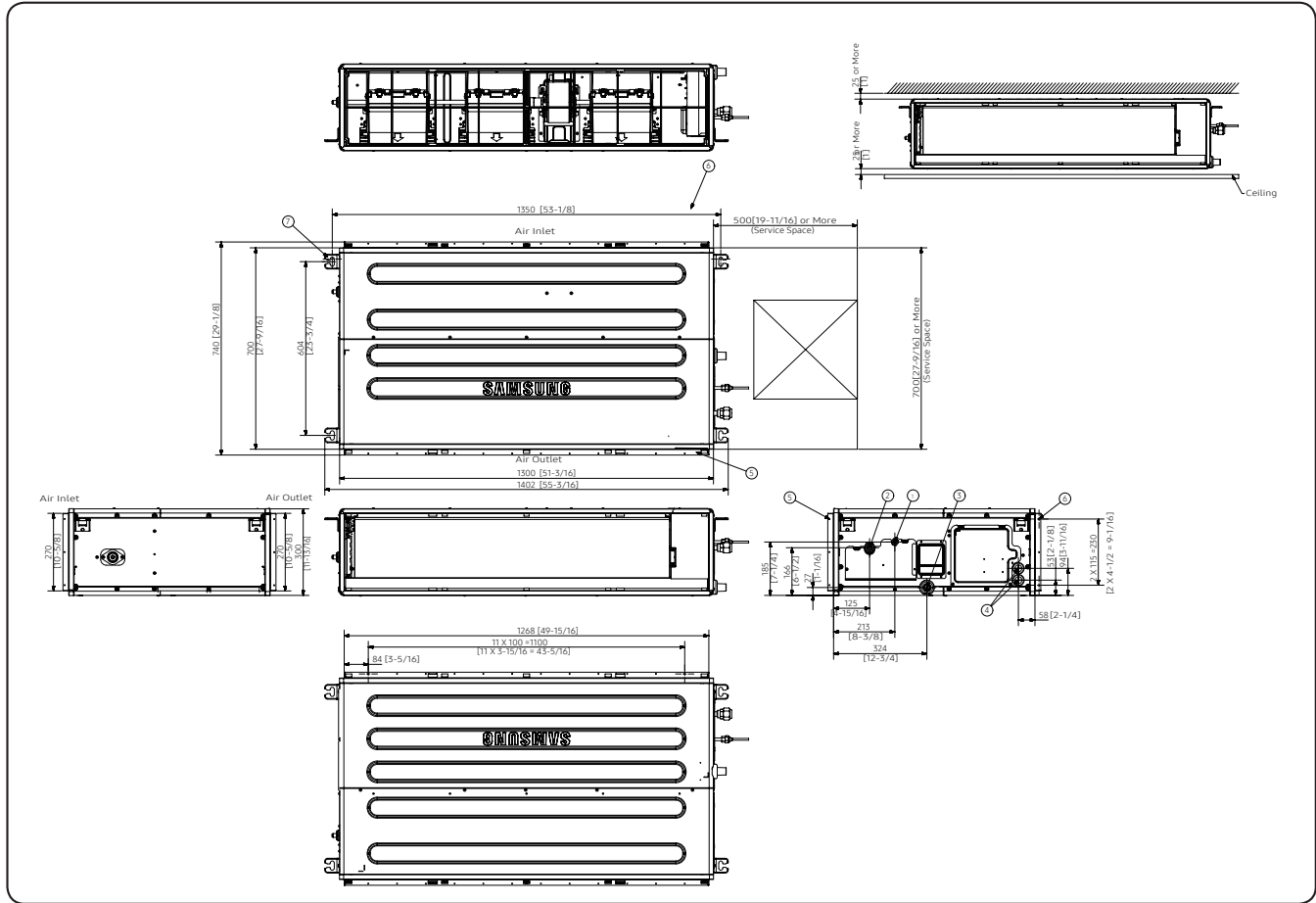
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe	VP25(OD32, ID25)
4	Power & Communication Conduits	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8-M10 bolt (4ea)

4. Dimensional Drawing

MSP Duct

AC120/140RNMDKG/EU

Units : mm [inches]



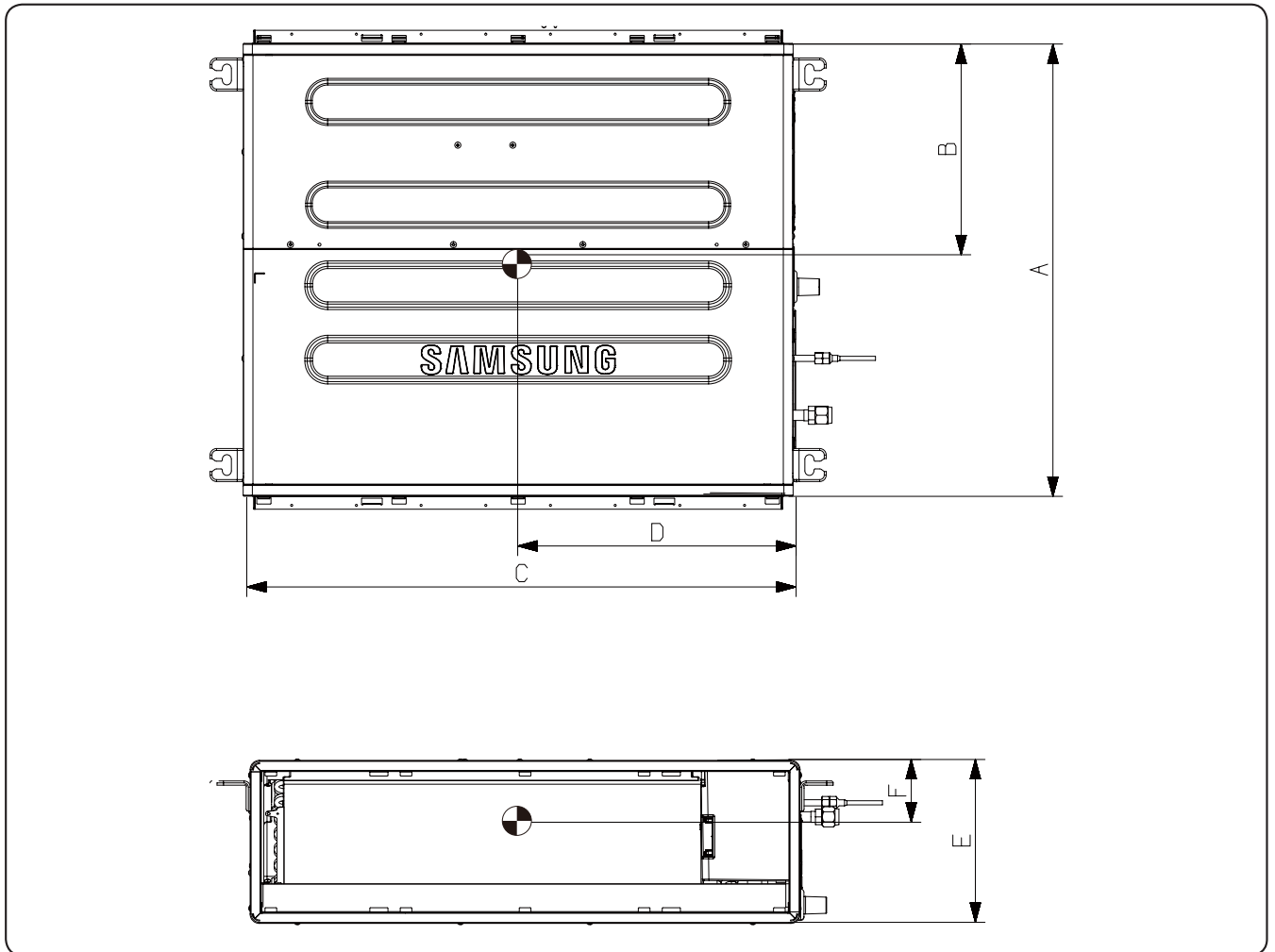
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe	VP25(OD32, ID25)
4	Power & Communication Conduits	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8-M10 bolt (4ea)

5. Center of Gravity

MSP Duct

AC035/052/071/100/120/140RNMDKG/EU

Units : mm [inches]

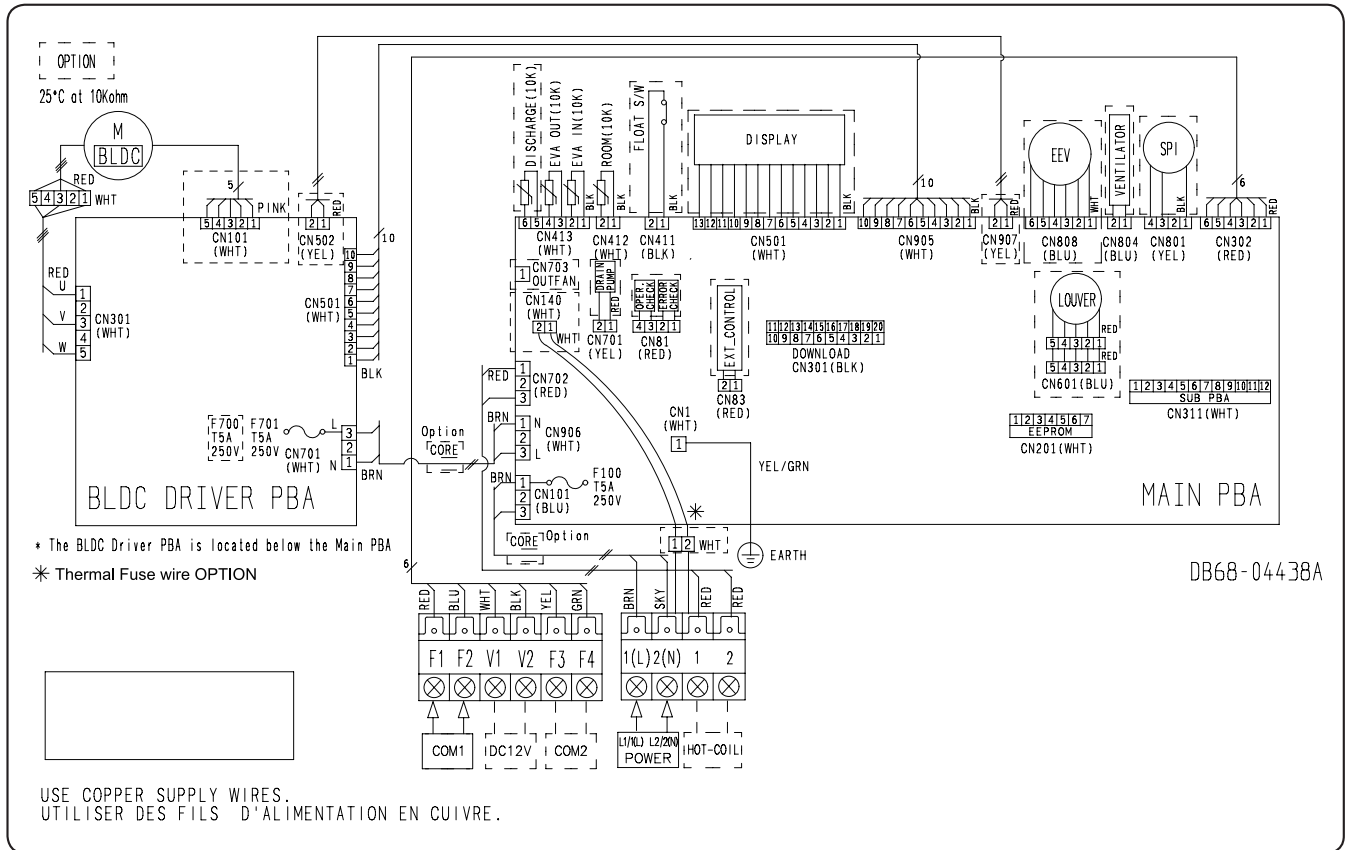


	A	B	C	D	E	F
~7.1kW	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	250 [9-13/16]	125 [4-15/16]
9.0kW ~ 10kW	700 [27-9/16]	265 [10-7/16]	1250 [49-3/16]	565 [18-5/16]	250 [9-13/16]	125 [4-15/16]
12kW ~ 14kW	700 [27-9/16]	265 [10-7/16]	1350 [53-1/8]	650 [25-5/8]	300 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram

MSP Duct

AC035/052/071/100/120/140RNMDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

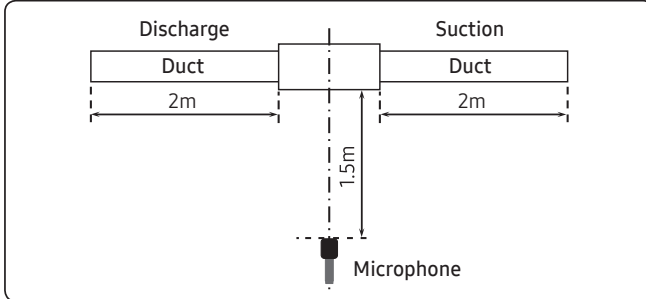
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

MSP Duct

Sound Pressure level

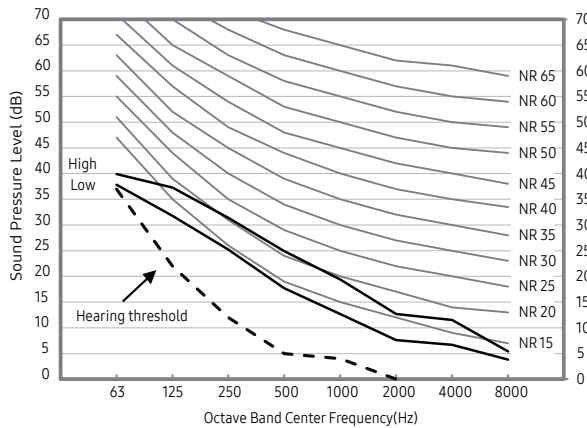
Unit: dB(A)



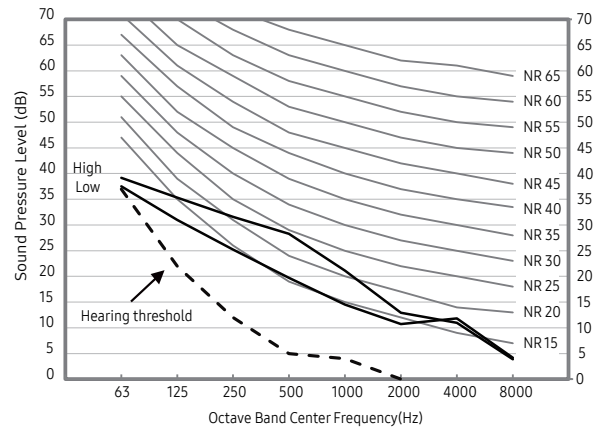
Model	HIGH	MID	LOW
AC035RNMDKG/EU	28	25	22
AC052RNMDKG/EU	29	26	23
AC071RNMDKG/EU	30	27	24
AC100RNMDKG/EU	34	32	30

• NR Curve

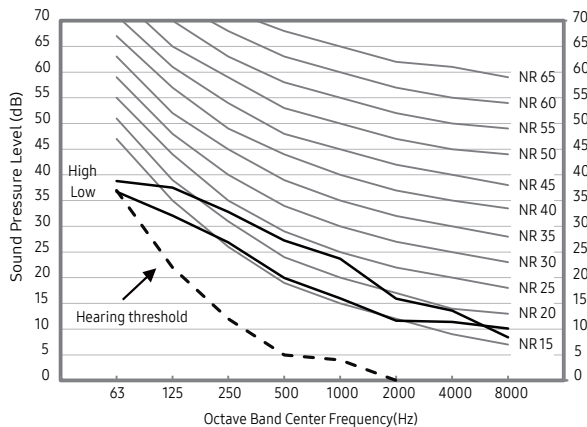
1) AC035RNMDKG/EU



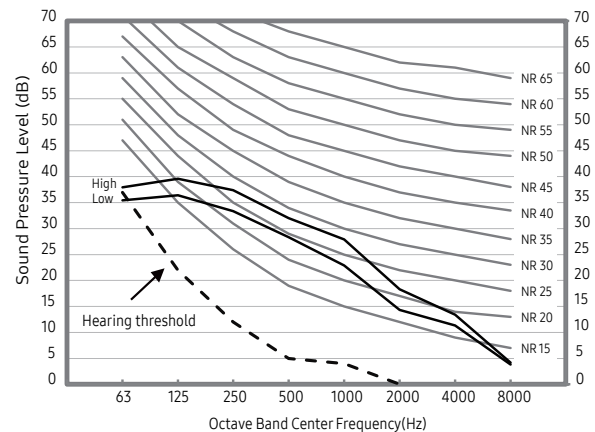
2) AC052RNMDKG/EU



3) AC071RNMDKG/EU



4) AC100RNMDKG/EU



NOTE

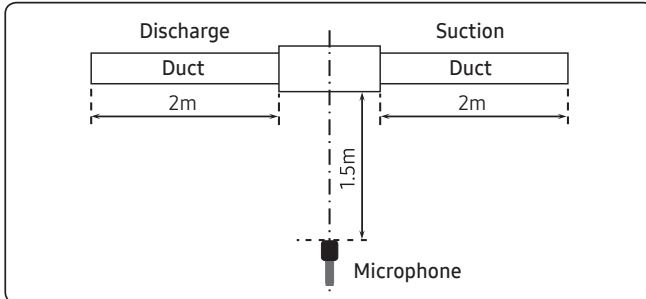
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted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

7. Sound Data

MSP Duct

Sound Pressure level

Unit: dB(A)

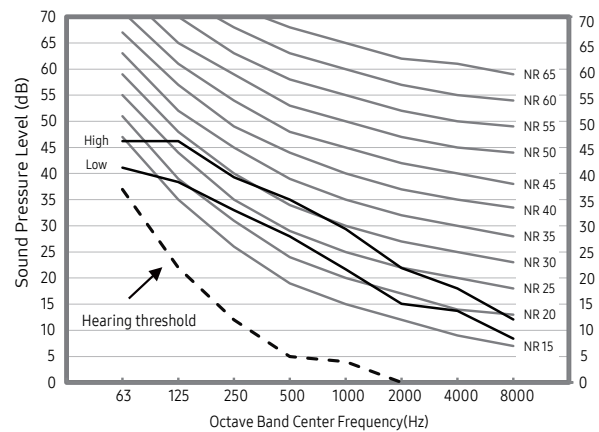
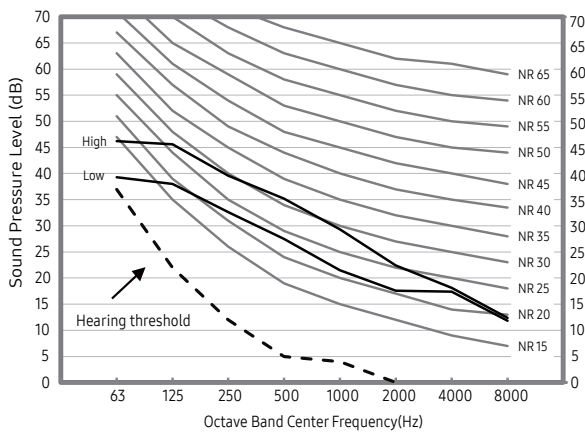


Model	HIGH	MID	LOW
AC120RNMDKG/EU	37	34	30
AC140RNMDKG/EU	37	34	30

- NR Curve

5) AC120RNMDKG/EU

6) AC140RNMDKG/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.
 - dB(A) = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

MSP Duct

Sound Power level

NOTE

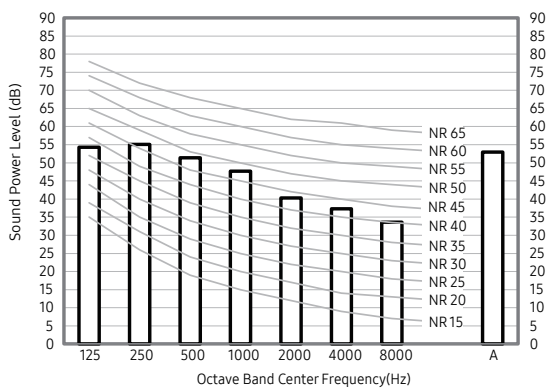
Unit: dB(A)

- 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.

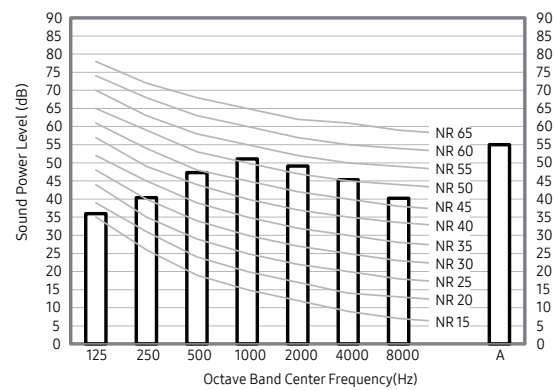
Model	Power
AC035RNMDKG/EU	52
AC052RNMDKG/EU	55
AC071RNMDKG/EU	56
AC100RNMDKG/EU	58

• NR Curve

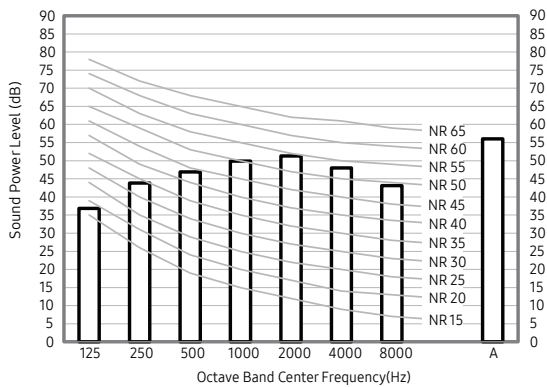
1) AC035RNMDKG/EU



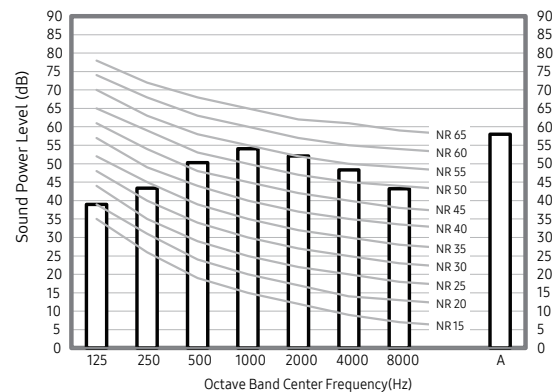
2) AC052RNMDKG/EU



3) AC071RNMDKG/EU



4) AC100RNMDKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

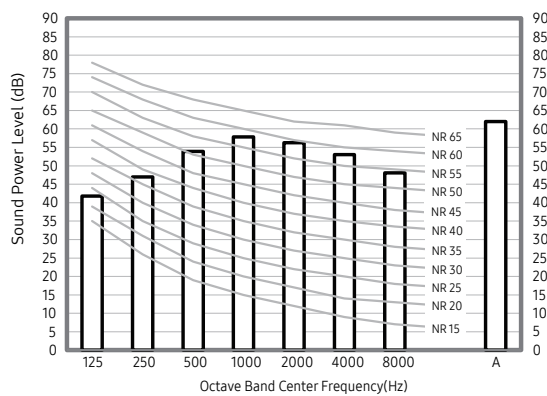
Unit: dB(A)

Model	Power
AC120RNMDKG/EU	62
AC140RNMDKG/EU	62

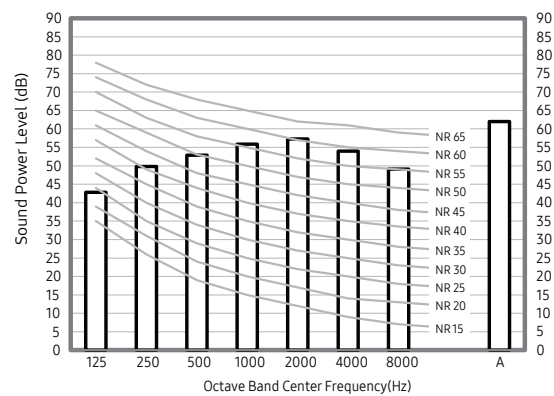
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

- NR Curve

5) AC120RNMDKG/EU



6) AC140RNMDKG/EU

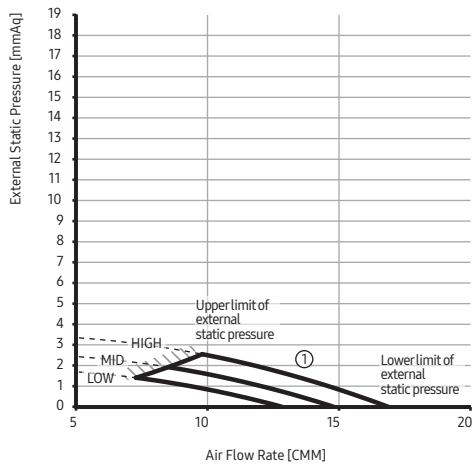


8. Fan Characteristics

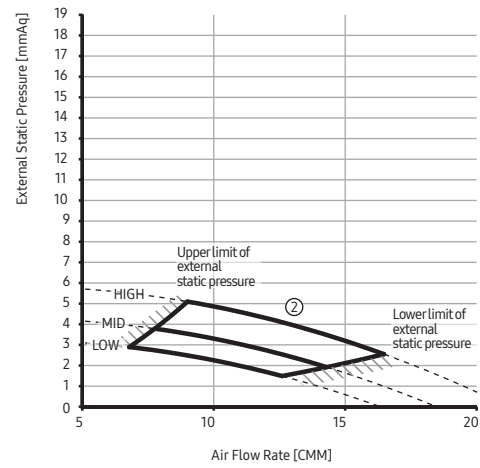
MSP Duct

1) AC035RNMDKG/EU

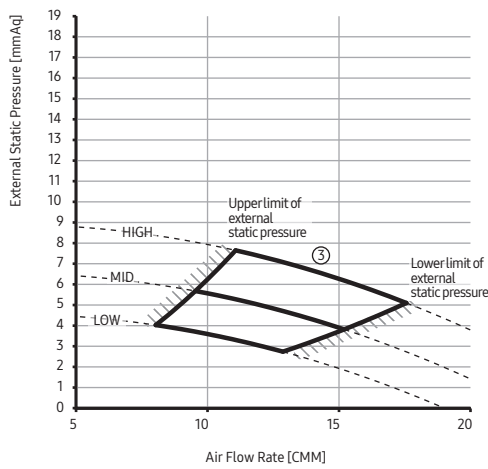
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5	01B17C-1C5080-272328-372008



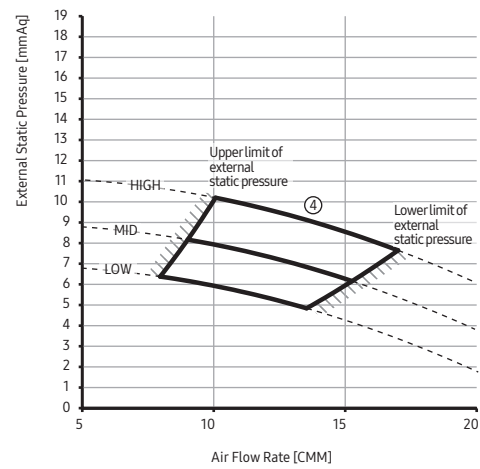
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	01B17C-1C5407-272328-372008



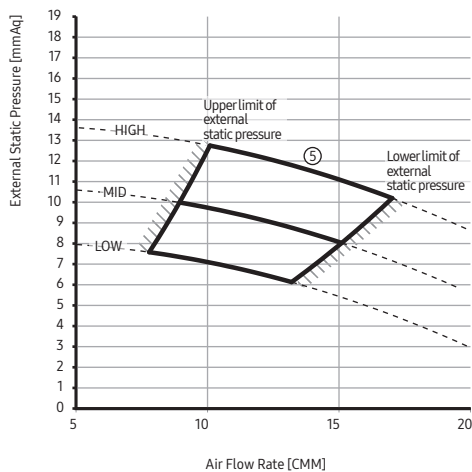
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	01B17C-1C548C-272328-372008



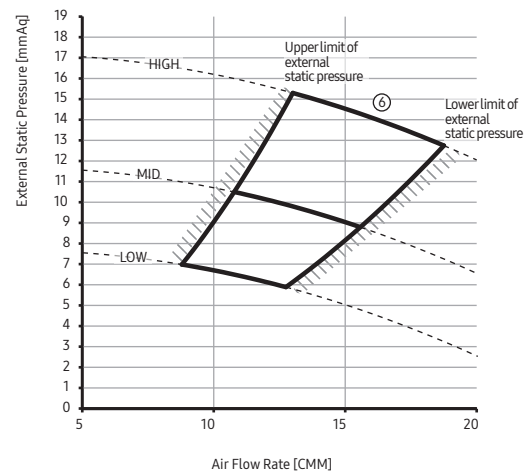
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	01B17C-1C55D3-272328-372008



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	01B17C-1C5926-272328-372008



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15	01B17C-1C5998-272328-372008

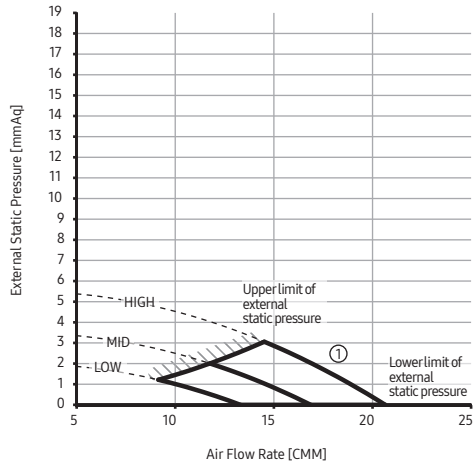


8. Fan Characteristics

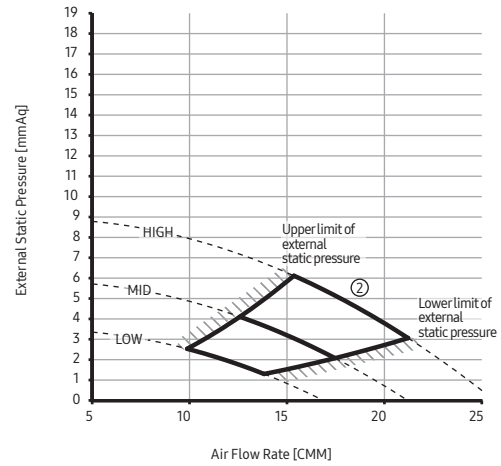
MSP Duct

2) AC052RNMDKG/EU

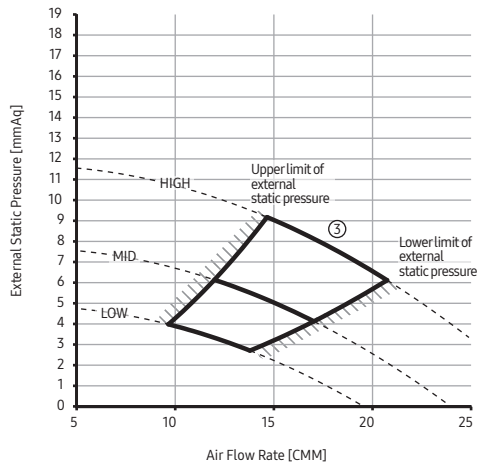
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01B17C-1C50F1-27343C-374000



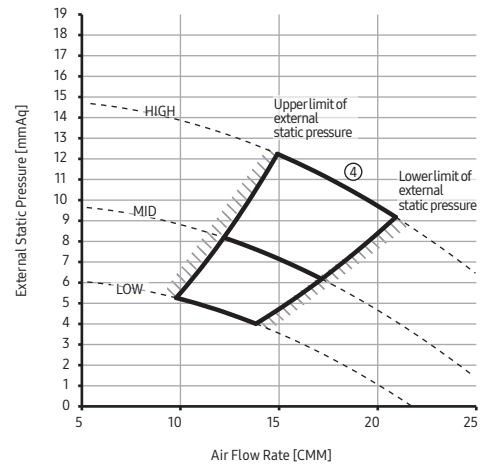
②	External Static Pressure(mmAq)	Option Code
	3 < SP ≤ 6	01B17C-1C5488-27343C-374000



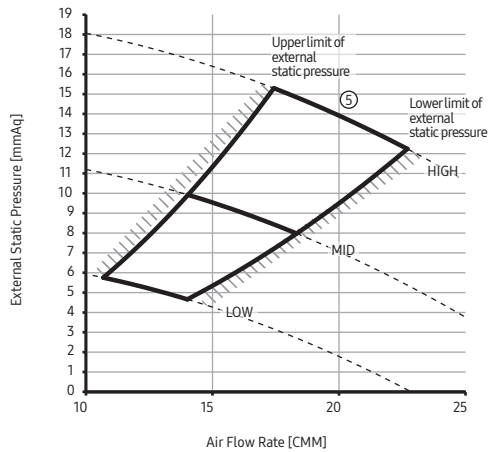
③	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 9	01B17C-1C54ED-27343C-374000



④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	01B17C-1C5941-27343C-374000



⑤	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B17C-1C59B3-27343C-374000

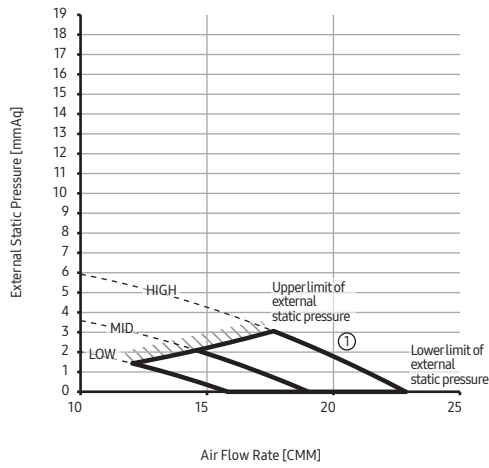


8. Fan Characteristics

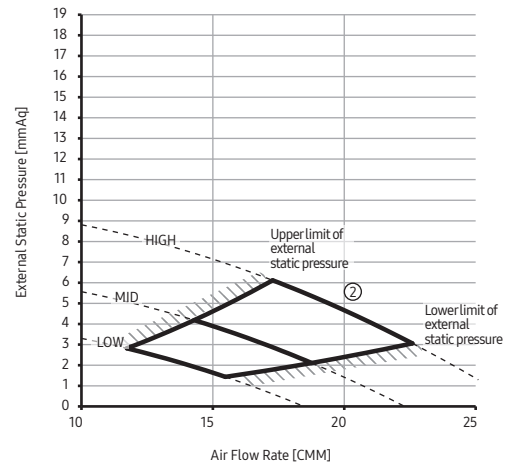
MSP Duct

3) AC071RNMDKG/EU

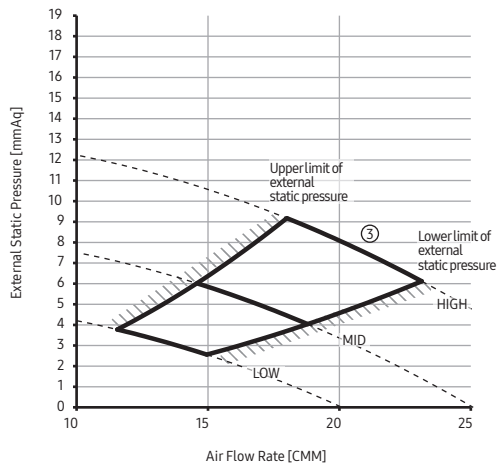
①	External Static Pressure(mmAq) 0 ≤ SP ≤ 3	Option Code 01B17C-1C5436-274750-376000
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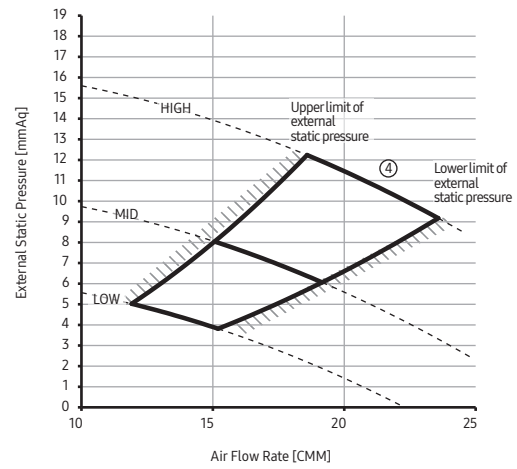
②	External Static Pressure(mmAq) 3 < SP ≤ 6	Option Code 01B17C-1C54AB-274750-376000
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③	External Static Pressure(mmAq) 6 < SP ≤ 9	Option Code 01B17C-1C581E-274750-376000
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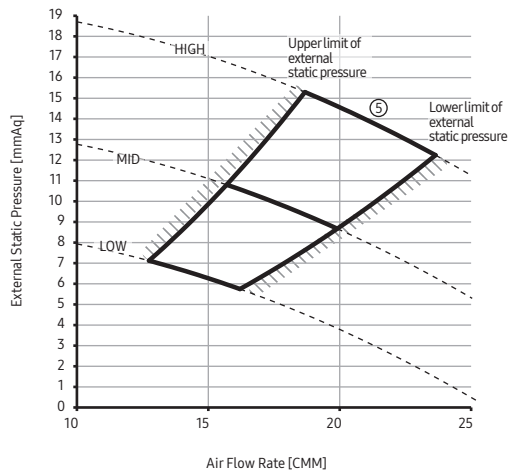
④	External Static Pressure(mmAq) 9 < SP ≤ 12	Option Code 01B17C-1C5972-274750-376000
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8. Fan Characteristics

MSP Duct

External Static Pressure(mmAq)	Option Code
12<SP≤15	01B17C-1C59C8-274750-376000



NOTE

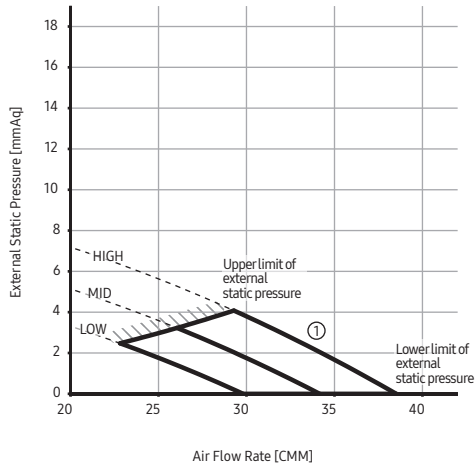
- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted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

8. Fan Characteristics

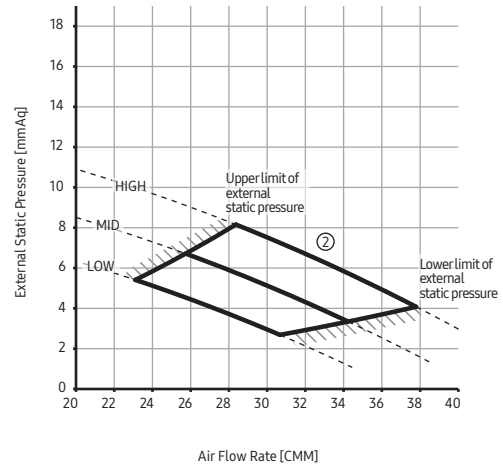
MSP Duct

4) AC100RNMDKG/EU

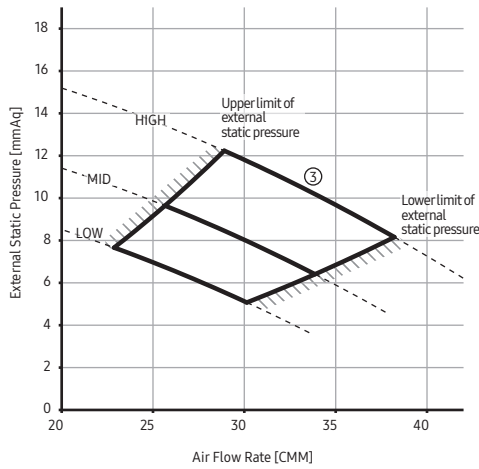
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C549F-276470-375020



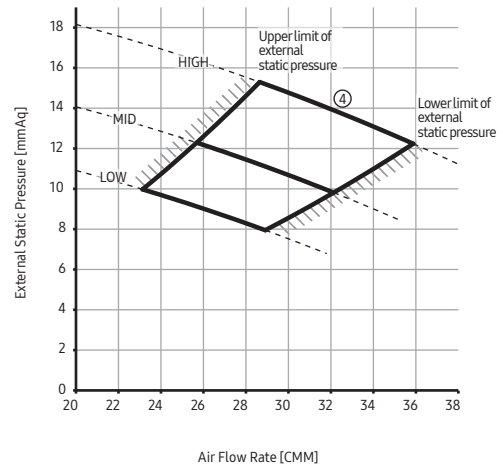
②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5917-276470-375020



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C599C-276470-375020



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5AE1-276470-375020

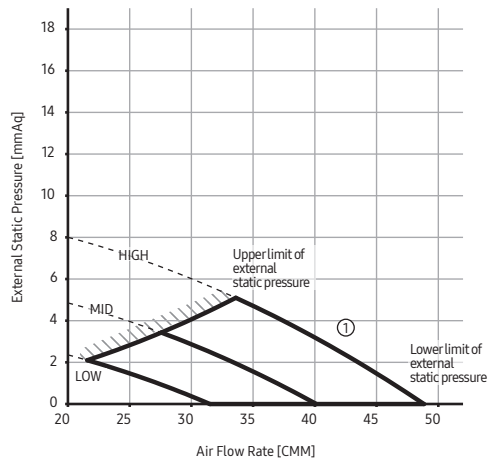


8. Fan Characteristics

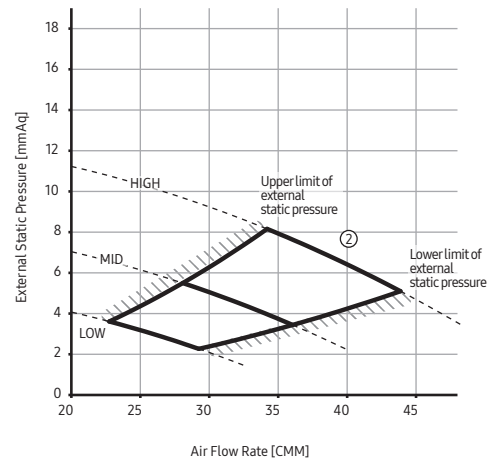
MSP Duct

5) AC120RNMDKG/EU

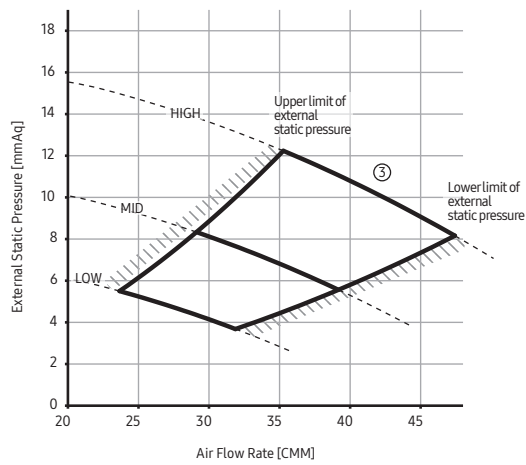
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C5424-277882-374040



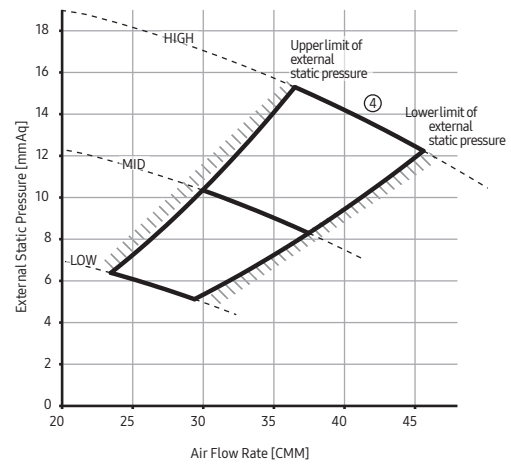
②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5489-277882-374040



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C54FE-277882-374040



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5940-277882-374040

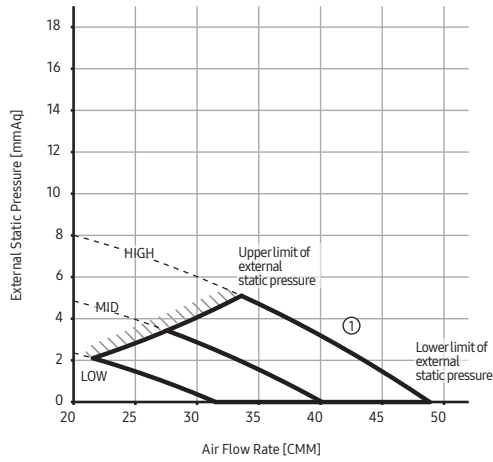


8. Fan Characteristics

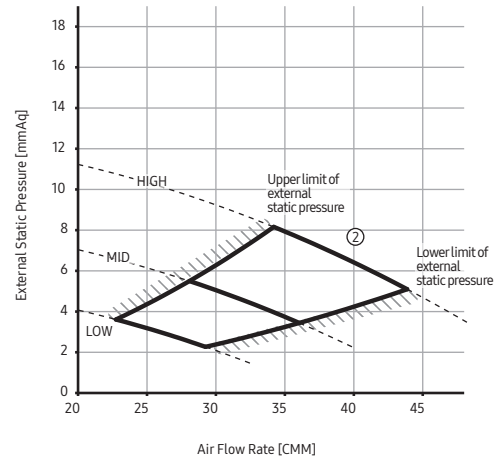
MSP Duct

6) AC140RNMDKG/EU

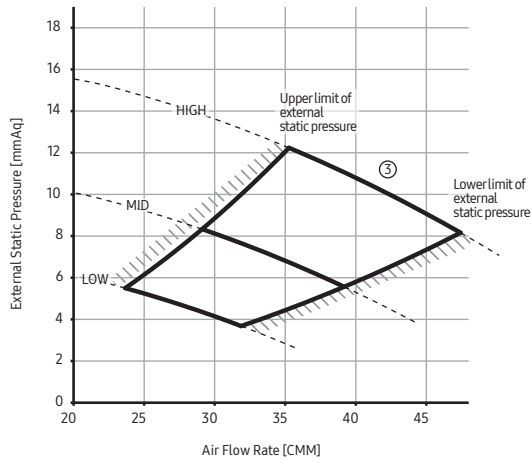
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C5424-278CA0-374045



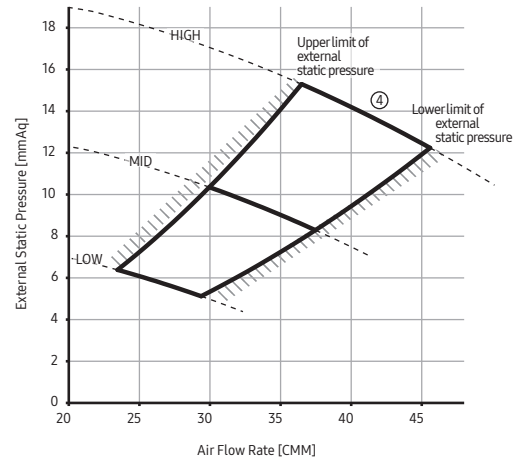
②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5489-278CA0-374045



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C54FE-278CA0-374045



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5940-278CA0-374045



Wall Mounted Type (Wind-Free™)

1. Specification	162
2. Summary Table	168
3. Capacity Table	169
4. Dimensional Drawing	173
5. Center of Gravity	175
6. Electrical Wiring Diagram	176
7. Sound Data	177
8. Temperature and air flow distribution	179

Features & Benefits

Wall Mounted Type (Wind-Free™)

Stay comfortably cool without feeling cold

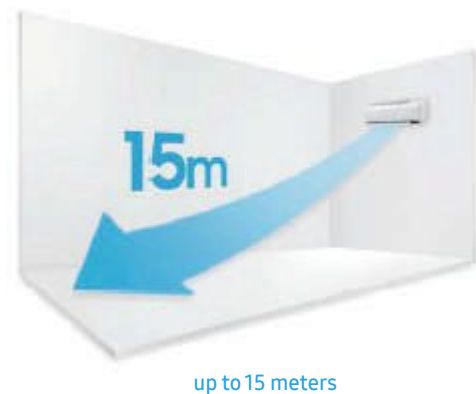
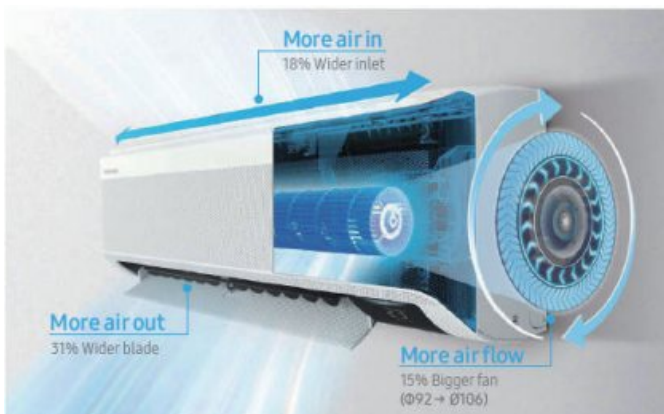
Wind-Free™ Cooling

Stay comfortable cool with Wind-Free™ 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 (*).



- (*) Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. Wind-Free™ Cooling mode.
- 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. Wind-Free™ mode generates only 23dB of noise, compared to 26dB with the Samsung conventional model.

Powerful & Farther air flow



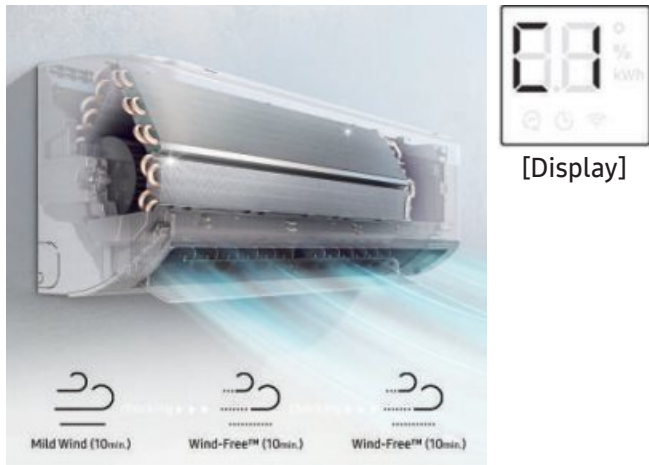
※ Compare to Boracay model

Features & Benefits

Wall Mounted Type (Wind-Free™)

Auto clean

Keep the inside of air conditioner clean and hygienic automatically



※ The Auto clean time may vary depending on the status of the product.

Quiet Operation

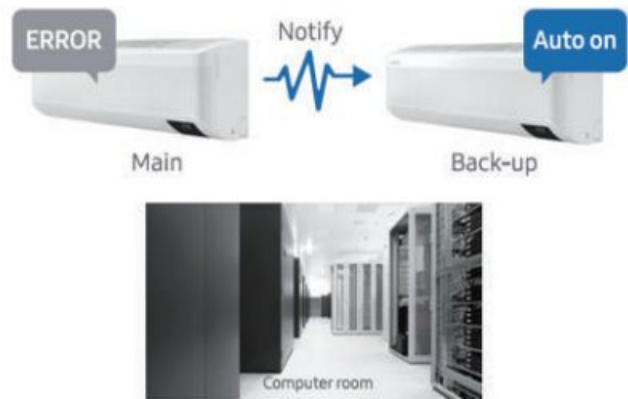
Wind-Free air conditioner work much more smoothly and quietly. At its lowest level, it only generates 21dB(A) of sound (*) which is almost as quiet as a whisper



(*) Tested on the AC026TNXDKG/EU model in quiet mode.

ETO (Emergency Temperature Output)

Protect your computer room safely : Activate a backup system when a unit has stopped due to an error or if room temperature is above the specified threshold



※ Requires additional components (MIM-B14) for each unit

7-Segment display

A large numeric display with clear and simple icons makes it much easier to see the room temperature and intuitively check the current status of your air conditioner - even from a distance.



1. Specification

Wall Mounted Type (Wind-Free™)

Model Name	Indoor Unit			AC026TNXDKG/EU	AC035TNXDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.0 / 2.6 / 4.0	1.0 / 3.5 / 4.5
			Btu/h	3,410 / 8,870 / 13,650	3,410 / 11,940 / 15,350
		Heating	kW	0.8 / 3.3 / 4.0	0.8 / 4.0 / 4.8
			Btu/h	2,730 / 11,260 / 13,650	2,730 / 13,650 / 16,380
Power	Power Input (Min/Std/Max)	Cooling	kW	0.18 / 0.64 / 1.20	0.19 / 1.00 / 1.40
		Heating	kW	0.15 / 0.88 / 1.35	0.15 / 1.21 / 1.40
	Current Input (Min/Std/Max)	Cooling	A	1.4 / 3.1 / 5.5	1.4 / 4.6 / 6.0
		Heating	A	1.2 / 4.2 / 6.0	1.2 / 5.6 / 6.2
	Current	MCA	A	11.2	11.2
		MFA	A	12.5	12.5
Efficiency	EER	Cooling	-	4.06	3.50
	COP	Heating	-	3.75	3.31
	SEER (Cooling Energy Grade)		-	7.0 (A++)	6.9 (A++)
	SCOP (Heating Energy Grade)		-	4.1 (A+)	4.1 (A+)
	Pdesignh		kW	2.1	2.1
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)
	Gas Pipe	Type		Flare connection	Flare connection
		Φ, mm (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	20	20
Elevation		m	15	15	
Chargeless		m	20	20	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging		kg	0.9	0.9
			tCO ₂ e	0.61	0.61

1. Specification

Wall Mounted Type (Wind-Free™)

Model Name	Indoor Unit			AC026TNXDKG/EU	AC035TNXDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Power Supply				Ø, #, V, Hz	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		-	Crossflow Fan	Crossflow Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.3 / 8.4 / 7.0	12.2 / 9.8 / 7.9
			l/s	172 / 140 / 117	203 / 163 / 132
		Heating (H/M/L)	m ³ /min	11.2 / 9.3 / 7.9	12.2 / 9.8 / 7.9
l/s			187 / 155 / 132	203 / 163 / 132	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	27	27
Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 30 / 24 / 21	40 / 34 / 28 / 23
	Sound Power Level		dB(A)	56	59
External Dimension	Net Weight		kg	9.1	9.1
	Shipping Weight		kg	10.7	10.7
	Net Dimensions (WxHxD)		mm	820 x 299 x 215	820 x 299 x 215
	Shipping Dimensions (WxHxD)		mm	880 x 290 x 375	880 x 290 x 375
Casing	Material		-	PS-HI	PS-HI
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
Additional Accessories	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
		Max. lifting Height / Displacement	mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
	Virus Doctor		-	-	-

1. Specification

Wall Mounted Type (Wind-Free™)

Model Name	Indoor Unit			AC026TNXDKG/EU	AC035TNXDKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/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			UB9AK5090FER	UB9AK5090FER
	Type		-	Single BLDC	Single BLDC
	Output		kW	0.86	0.86
	Oil	Type	-	POE	POE
Initial charge		cc	320	320	
Fan	Type		-	Propeller	Propeller
	Discharge direction		-	Front	Front
	Quantity		EA	1	1
	Air Flow Rate		m ³ /min	30	30
l/s			500	500	
Fan Motor	Type		-	BLDC Motor	BLDC Motor
	Output		W x n	40 x 1	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	46	48
		Heating	dB(A)	47	48
	Sound Power Level		dB(A)	59	61
External Dimension	Net Weight		kg	32.5	32.5
	Shipping Weight		kg	35.5	35.5
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371
Casing	Material	Body	-	EGL Steel Plate	EGL Steel Plate
	Operating Temp. Range		°C	-15 ~ 46	-15 ~ 46
Operating Temp. Range	Cooling		°C	-20 ~ 24	-20 ~ 24
	Heating		°C	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

Wall Mounted Type (Wind-Free™)

Model Name	Indoor Unit			AC052TNXDKG/EU	AC071TNXDKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.5 / 5.0 / 6.8	2.0 / 7.1 / 8.7
			Btu/h	5,120 / 17,060 / 23,200	6,820 / 24,230 / 29,690
		Heating	kW	1.0 / 6.0 / 6.5	1.6 / 8.0 / 9.0
			Btu/h	3,410 / 20,470 / 22,180	5,460 / 27,300 / 30,710
Power	Power Input (Min/Std/Max)	Cooling	kW	0.24 / 1.40 / 2.20	0.39 / 2.30 / 3.40
		Heating	kW	0.20 / 1.75 / 2.05	0.33 / 2.35 / 3.30
	Current Input (Min/Std/Max)	Cooling	A	1.5 / 6.3 / 9.6	2.5 / 10.0 / 14.7
		Heating	A	1.3 / 7.8 / 8.8	2.0 / 10.3 / 14.5
	Current	MCA	A	17.7	17.7
		MFA	A	20.6	20.6
Efficiency	EER	Cooling	-	3.57	3.09
	COP	Heating	-	3.43	3.40
	SEER (Cooling Energy Grade)		-	6.9 (A++)	6.8 (A++)
	SCOP (Heating Energy Grade)		-	3.9 (A)	4.0 (A+)
	Pdesignh		kW	2.4	3.6
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (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	30	50
Elevation		m	20	30	
Chargeless		m	10	15	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging		kg	1.2	1.7
			tCO ₂ e	0.81	1.15

1. Specification

Wall Mounted Type (Wind-Free™)

Indoor Unit	Model Name		Indoor Unit	AC052TNXDKG/EU	AC071TNXDKG/EU
			Outdoor Unit	AC052RXADKG/EU	AC071RXADKG/EU
	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		-	Crossflow Fan	Crossflow Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	16.7 / 13.9 / 11.8	17.8 / 15.2 / 13.2
			l/s	278 / 232 / 197	297 / 253 / 220
		Heating (H/M/L)	m ³ /min	16.7 / 13.9 / 11.8	19.1 / 16.5 / 14.5
l/s			278 / 232 / 197	318 / 275 / 242	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	27	27
Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	42 / 37 / 32 / 25	44 / 39 / 35 / 30
	Sound Power Level		dB(A)	60	61
External Dimension	Net Weight		kg	11.7	12.7
	Shipping Weight		kg	13.7	14.7
	Net Dimensions (WxHxD)		mm	1055 x 299 x 215	1055 x 299 x 215
	Shipping Dimensions (WxHxD)		mm	1115 x 290 x 375	1115 x 290 x 375
Casing	Material		-	PS-HI	PS-HI
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
Additional Accessories	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
		Max. lifting Height / Displacement	mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
Virus Doctor		-	-	-	

1. Specification

Wall Mounted Type (Wind-Free™)

Model Name	Indoor Unit		AC052TNXDKG/EU	AC071TNXDKG/EU
	Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Anti-Corrosion
Compressor	Model Name		-	UB9TK3150FE4
	Type		-	Twin BLDC
	Output		kW	1.51
	Oil	Type	-	POE
		Initial charge	cc	500
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate		m ³ /min	40
			l/s	667
Fan Motor	Type		-	BLDC Motor
	Output		W x n	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48
		Heating	dB(A)	51
	Sound Power Level		dB(A)	62
External Dimension	Net Weight		kg	43.0
	Shipping Weight		kg	46.5
	Net Dimensions (WxHxD)		mm	880 x 638 x 310
	Shipping Dimensions (WxHxD)		mm	1023 x 742 x 413
Casing	Material	Body	-	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 50
			°C	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wall Mounted Type (Wind-Free™)

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
		Max.	Cooling (kW)	Heating (kW)				
AC026TNXDKH/EU	32.5	Max.	4.0	4.0	High	10.3	36	56
		Std.	2.6	3.3	Mid	8.4	30	
		Min.	1.0	0.8	Low	7.0	24	
AC035TNXDKH/EU	32.5	Max.	4.5	4.8	High	12.2	40	59
		Std.	3.5	4.0	Mid	9.8	34	
		Min.	1.0	0.8	Low	7.9	28	
AC052TNXDKH/EU	43	Max.	6.8	6.5	High	16.7	42	60
		Std.	5.0	6.0	Mid	13.9	37	
		Min.	1.5	1.0	Low	11.8	32	
AC071TNXDKH/EU	51	Max.	8.7	9.0	High	17.8	44	61
		Std.	7.1	8.0	Mid	15.2	39	
		Min.	2.0	1.6	Low	13.2	35	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA	MFA	
			Volts	Min.	Max.	Cooling					Heating
AC026TNXDKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10	10	1.2	11.2	11.2	12.5
AC035TNXDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	1.2	11.2	11.2	12.5
AC052TNXDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.2	17.7	17.7	20.6
AC071TNXDKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.2	17.7	17.7	20.6

NOTE

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

3. Capacity Table

Wall Mounted Type (Wind-Free™)

(1) AC026TNXDKG/EU+AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.1	2.3	0.62	3.3	2.4	0.63	3.4	2.5	0.64	3.5	2.5	0.7	3.6	2.5	0.66	3.8	2.5	0.67	3.9	2.4	0.68
21	3.2	2.4	0.69	3.4	2.5	0.70	3.5	2.6	0.72	3.6	2.6	0.7	3.7	2.6	0.74	3.9	2.6	0.75	4.1	2.5	0.76
35	2.3	2.0	0.60	2.4	2.1	0.61	2.5	2.1	0.63	2.6	2.2	0.6	2.7	2.2	0.65	2.8	2.1	0.65	2.9	2.1	0.67
46	2.6	2.1	1.25	2.7	2.2	1.28	2.8	2.3	1.31	2.9	2.3	1.3	3.0	2.3	1.35	3.1	2.3	1.36	3.3	2.3	1.39

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.2	1.11	2.1	1.10	2.1	1.1	2.1	1.08	2.1	1.07	2.1	1.06
-15	2.7	1.29	2.7	1.28	2.7	1.3	2.6	1.25	2.6	1.24	2.6	1.23
-5	3.6	1.59	3.6	1.58	3.5	1.6	3.5	1.55	3.5	1.53	3.4	1.52
0	3.4	1.31	3.4	1.29	3.4	1.3	3.3	1.27	3.3	1.25	3.3	1.24
7	3.4	0.90	3.3	0.89	3.3	0.9	3.3	0.87	3.2	0.86	3.2	0.85
24	4.5	1.35	4.5	1.34	4.4	1.3	4.4	1.31	4.4	1.30	4.3	1.29

NOTE

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

3. Capacity Table

Wall Mounted Type (Wind-Free™)

(2) AC035TNXDKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.5	2.6	0.65	3.6	2.6	0.66	3.8	2.7	0.68	3.9	2.8	0.7	4.0	2.8	0.70	4.2	2.8	0.70	4.4	2.7	0.72
21	3.6	2.7	0.73	3.8	2.8	0.74	3.9	2.9	0.76	4.0	2.9	0.8	4.1	2.9	0.78	4.3	2.9	0.79	4.5	2.8	0.80
35	3.1	2.5	0.94	3.3	2.5	0.96	3.4	2.6	0.98	3.5	2.7	1.0	3.6	2.7	1.01	3.7	2.6	1.02	3.9	2.6	1.04
46	2.9	2.4	1.32	3.0	2.5	1.35	3.2	2.5	1.37	3.3	2.6	1.4	3.3	2.6	1.42	3.5	2.6	1.43	3.7	2.5	1.46

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.4	1.17	2.4	1.16	2.4	1.1	2.3	1.14	2.3	1.13	2.3	1.11
-15	3.0	1.36	3.0	1.35	3.0	1.3	2.9	1.32	2.9	1.31	2.9	1.29
-5	4.0	1.68	4.0	1.66	3.9	1.6	3.9	1.65	3.9	1.61	3.8	1.60
0	3.8	1.37	3.8	1.36	3.7	1.3	3.7	1.33	3.7	1.32	3.6	1.31
7	4.1	1.23	4.0	1.22	4.0	1.2	4.0	1.20	3.9	1.19	3.9	1.17
24	5.0	1.42	5.0	1.41	4.9	1.4	4.9	1.38	4.8	1.37	4.8	1.35

NOTE

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

3. Capacity Table

Wall Mounted Type (Wind-Free™)

(3) AC052TNXDKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.3	4.1	1.04	5.5	4.2	1.06	5.8	4.4	1.08	5.9	4.5	1.1	6.1	4.4	1.11	6.4	4.4	1.12	6.7	4.3	1.14
21	5.3	4.1	1.17	5.6	4.2	1.20	5.9	4.4	1.22	6.0	4.5	1.2	6.2	4.4	1.26	6.5	4.4	1.27	6.8	4.3	1.30
35	4.4	3.7	1.32	4.7	3.8	1.34	4.9	3.9	1.37	5.0	4.0	1.4	5.1	4.0	1.41	5.4	3.9	1.43	5.6	3.8	1.46
46	4.9	3.9	2.58	5.2	4.0	2.63	5.4	4.2	2.69	5.6	4.3	2.7	5.7	4.3	2.77	6.0	4.2	2.80	6.3	4.1	2.85
50	3.4	3.3	1.74	3.6	3.4	1.78	3.7	3.5	1.82	3.8	3.6	1.9	3.9	3.5	1.87	4.1	3.5	1.89	4.3	3.4	1.93

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.79	2.7	1.77	2.7	1.8	2.7	1.73	2.7	1.72	2.6	1.70
-15	4.9	2.21	4.8	2.18	4.8	2.2	4.7	2.14	4.7	2.12	4.6	2.10
-5	6.2	2.49	6.1	2.47	6.0	2.4	6.0	2.42	5.9	2.40	5.9	2.37
0	6.0	2.09	5.9	2.07	5.9	2.1	5.8	2.03	5.7	2.01	5.7	1.99
7	6.1	1.79	6.1	1.77	6.0	1.8	5.9	1.73	5.9	1.72	5.8	1.70
24	7.9	2.11	7.9	2.09	7.8	2.1	7.7	2.05	7.6	2.02	7.5	2.00

NOTE

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

3. Capacity Table

Wall Mounted Type (Wind-Free™)

(4) AC071TNXDKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	7.5	5.3	1.10	7.9	5.4	1.13	8.2	5.6	1.15	8.5	5.8	1.2	8.7	5.7	1.18	9.1	5.7	1.20	9.6	5.6	1.22
21	7.7	5.3	1.91	8.1	5.5	1.95	8.4	5.6	1.99	8.7	5.8	2.0	8.9	5.8	2.05	9.3	5.7	2.07	9.8	5.6	2.12
35	6.3	4.7	2.16	6.6	4.8	2.21	6.9	4.9	2.25	7.1	5.1	2.3	7.2	5.0	2.32	7.6	5.0	2.35	8.0	4.9	2.39
46	5.1	4.2	2.48	5.4	4.3	2.53	5.6	4.4	2.58	5.8	4.6	2.6	5.9	4.5	2.66	6.2	4.5	2.69	6.5	4.4	2.74
50	3.4	3.4	1.77	3.6	3.5	1.80	3.8	3.6	1.84	3.9	3.7	1.9	3.9	3.7	1.90	4.1	3.6	1.92	4.4	3.5	1.95

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.1	2.55	5.1	2.53	5.0	2.5	5.0	2.48	4.9	2.45	4.9	2.43
-15	6.1	3.11	6.1	3.08	6.0	3.1	5.9	3.02	5.9	2.99	5.8	2.96
-5	7.6	3.72	7.5	3.68	7.4	3.6	7.4	3.61	7.3	3.57	7.2	3.53
0	8.3	3.22	8.2	3.19	8.1	3.2	8.1	3.12	8.0	3.09	7.9	3.06
7	8.2	2.40	8.1	2.37	8.0	2.4	7.9	2.33	7.8	2.30	7.8	2.28
24	8.9	2.65	8.8	2.62	8.8	2.6	8.7	2.57	8.6	2.54	8.5	2.52

NOTE

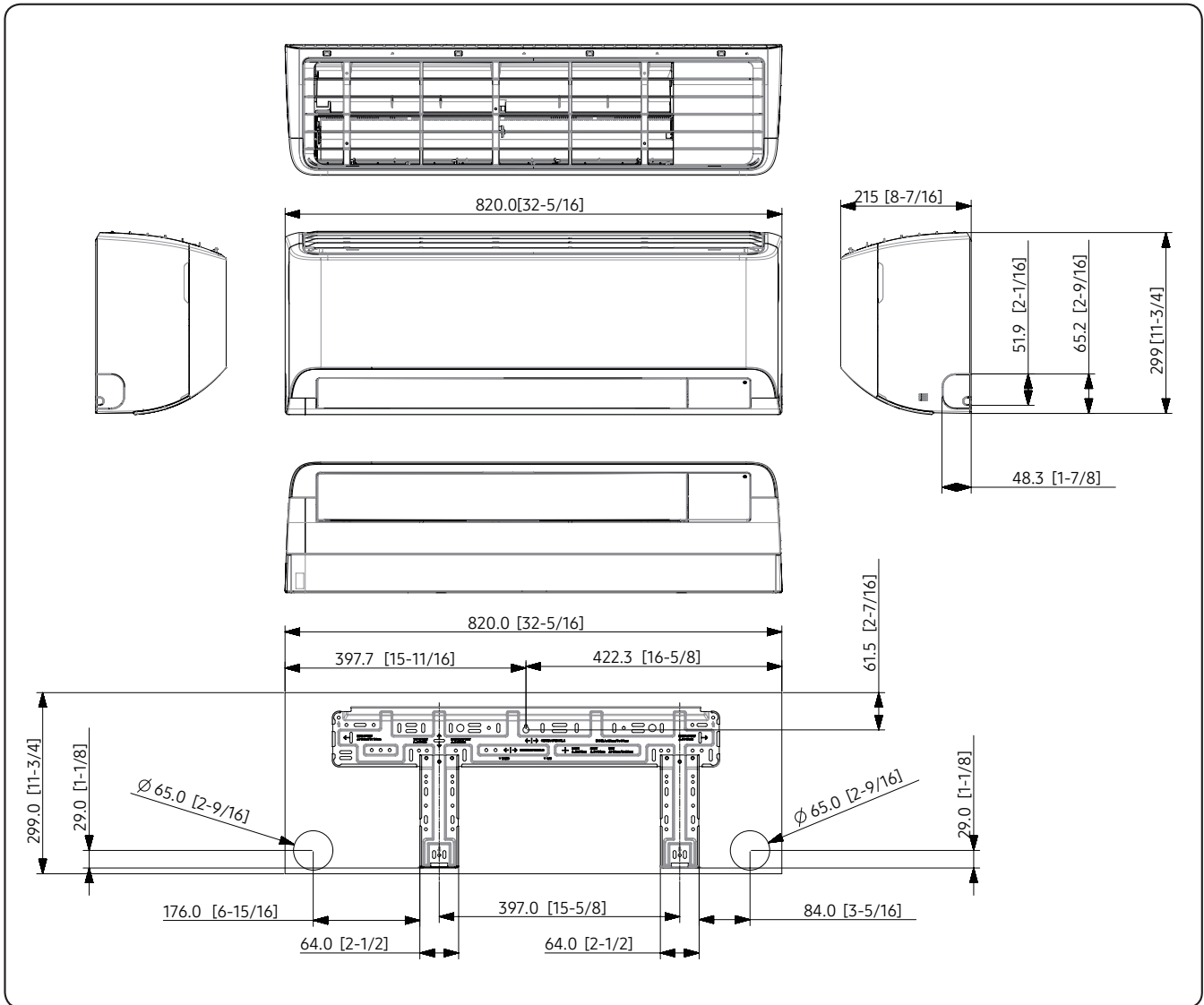
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wall Mounted Type (Wind-Free™)

AC026TNXDKG/EU, AC035TNXDKG/EU

Units : mm [inches]

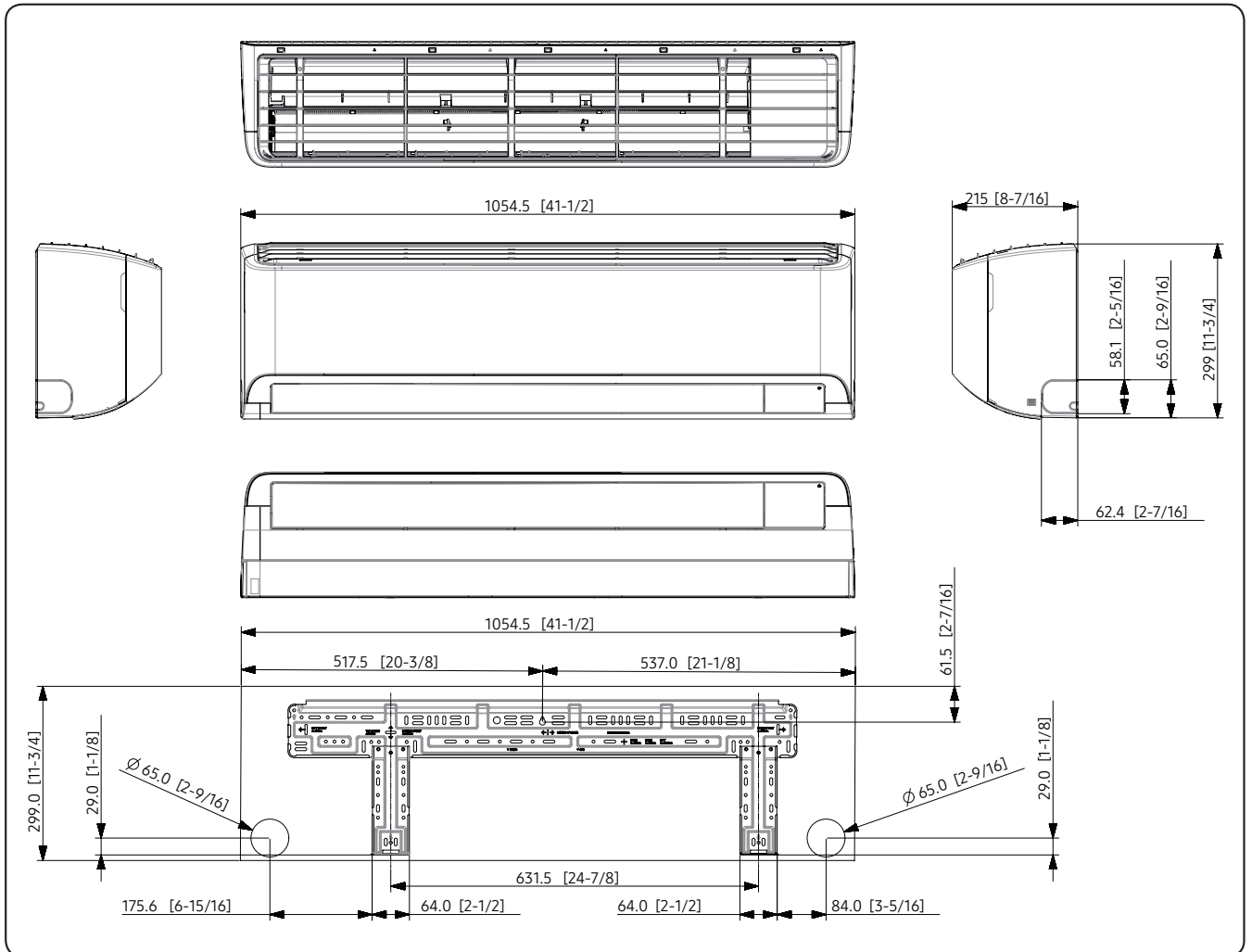


4. Dimensional Drawing

Wall Mounted Type (Wind-Free™)

AC052TNXDKG/EU, AC071TNXDKG/EU

Units : mm [inches]

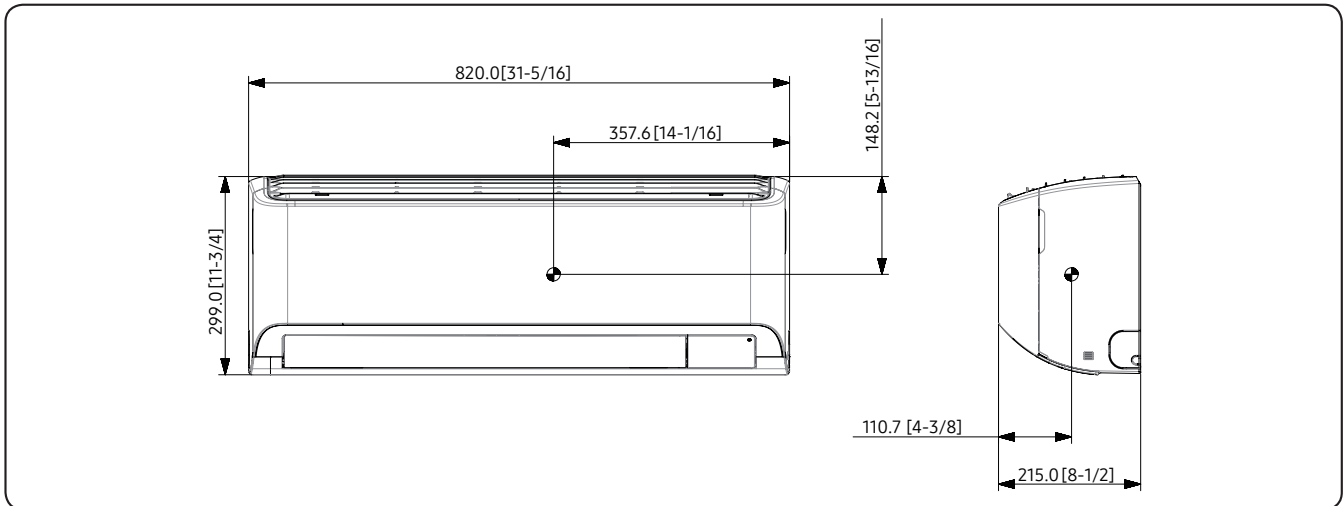


5. Center of Gravity

Wall Mounted Type (Wind-Free™)

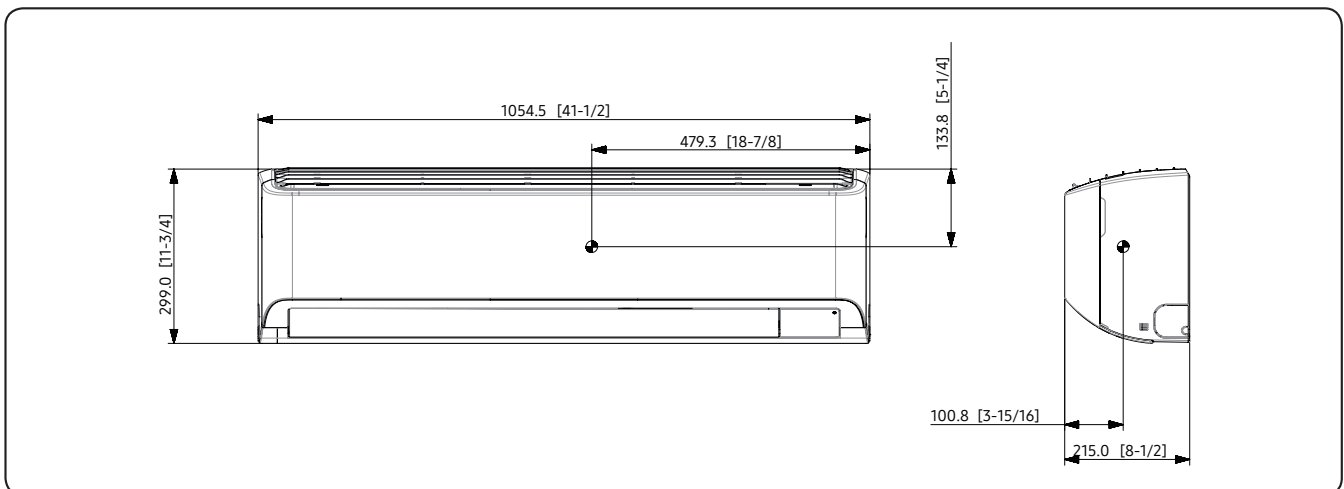
AC026TNXDKG/EU, AC035TNXDKG/EU

Units : mm [inches]



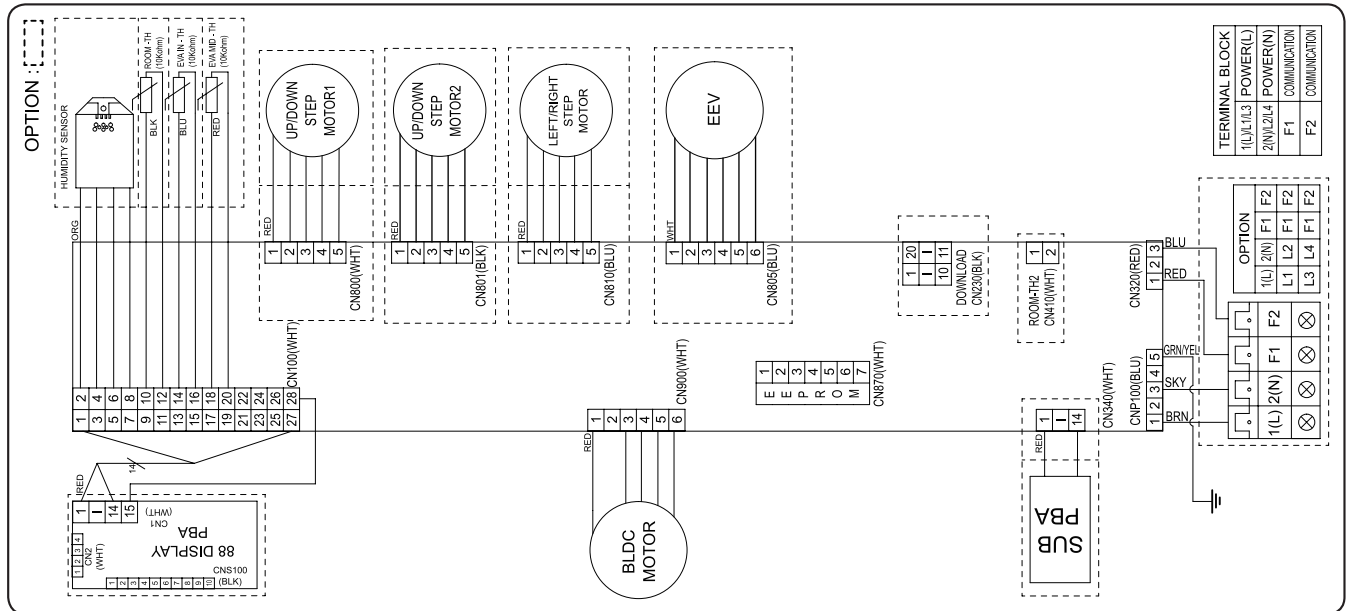
AC052TNXDKG/EU, AC071TNXDKG/EU

Units : mm [inches]




6. Electrical Wiring Diagram

Wall Mounted Type (Wind-Free™)



MAIN PBA	Printed circuit board(MAIN)	ROOM(10K)	Thermistor ROOM
SUB PBA	Printed circuit board(SUB)	EVA-IN(10K)	Thermistor EVA IN
88 DISPLAY PBA	Printed circuit board(DISPLAY)	EVA-MID(10K)	Thermistor EVA OUT
		ROOM2(10K)	External Thermistor ROOM((Option)

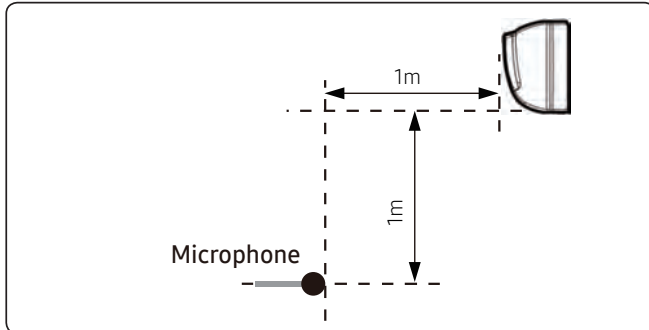
NOTE

- 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)

7. Sound Data

Wall Mounted Type (Wind-Free™)

Sound Pressure level

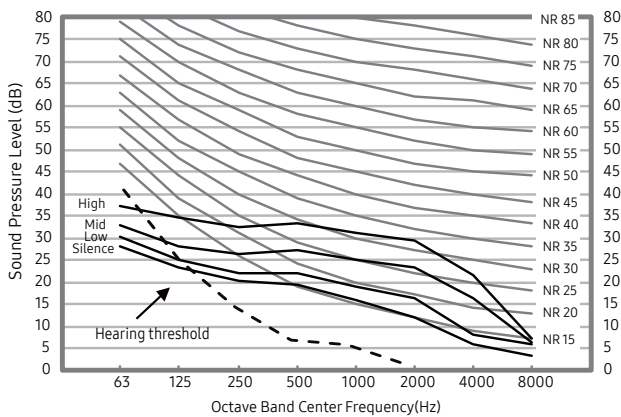


Unit: dB(A)

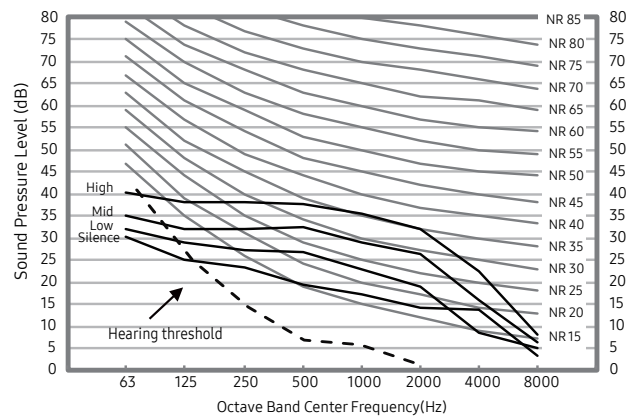
Model	HIGH	MID	LOW	Silence
AC026TNXDKG/EU	36	30	24	21
AC035TNXDKG/EU	40	34	28	20
AC052TNXDKG/EU	42	37	32	25
AC071TNXDKG/EU	44	39	35	30

- NR Curve

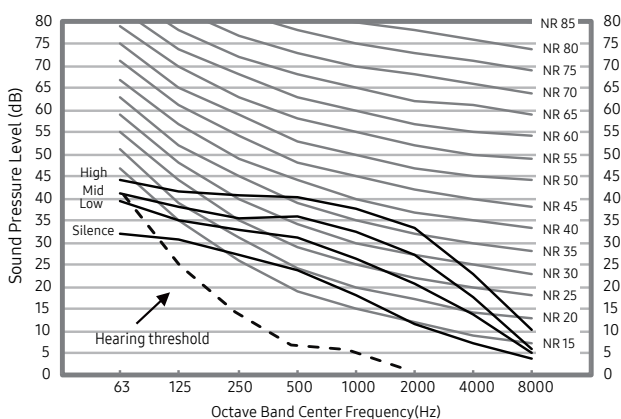
1) AC026TNXDKG/EU



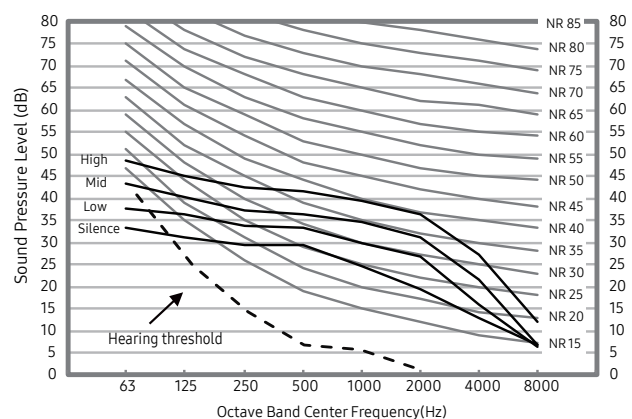
2) AC035TNXDKG/EU



3) AC052TNXDKG/EU



4) AC071TNXDKG/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.
 - dB(A) = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Wall Mounted Type (Wind-Free™)

Sound Power level

NOTE

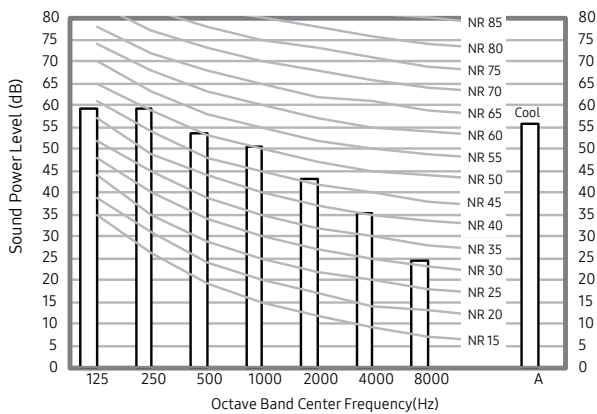
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

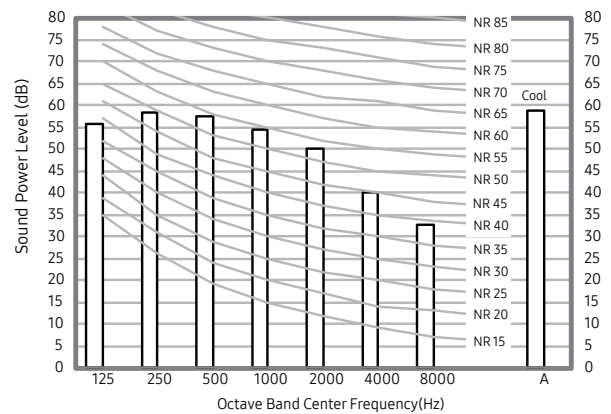
Model	Power
AC026TNXDKG/EU	56
AC035TNXDKG/EU	59
AC052TNXDKG/EU	60
AC071TNXDKG/EU	61

• NR Curve

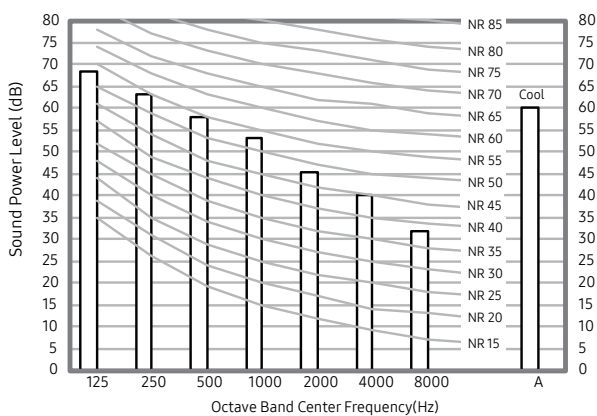
1) AC026TNXDKG/EU



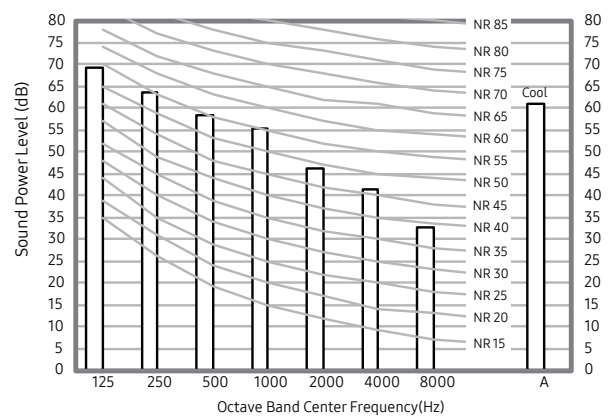
2) AC035TNXDKG/EU



3) AC052TNXDKG/EU



4) AC071TNXDKG/EU

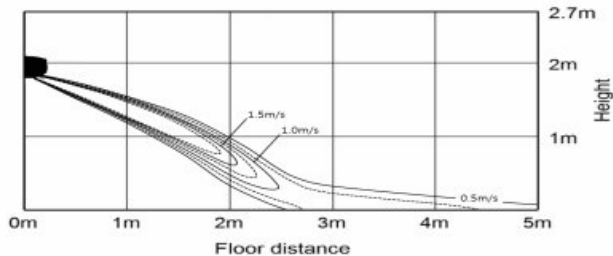


8. Temperature and air flow distribution

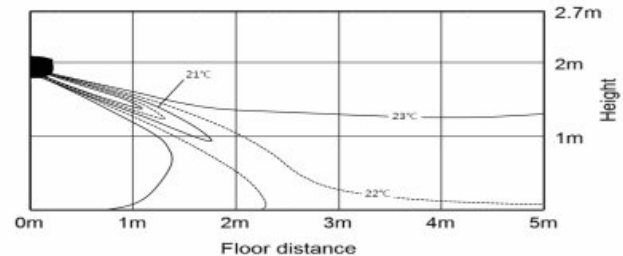
Wall Mounted Type (Wind-Free™)

AC026TNXDKG/EU

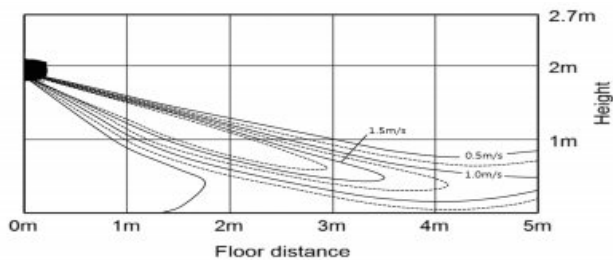
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



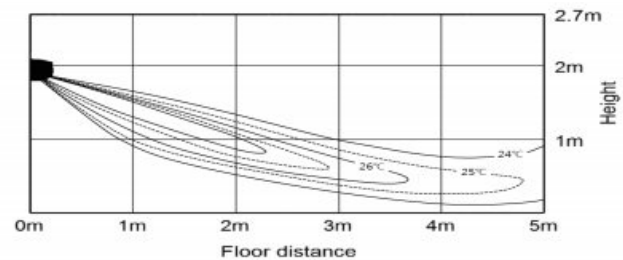
- Cooling temperature distribution
(Discharge angle : 20 degree)



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

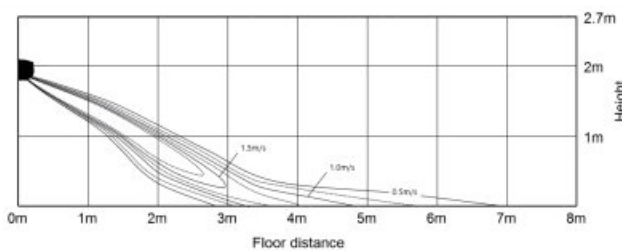


- Heating temperature distribution
(Discharge angle : 30 degree)

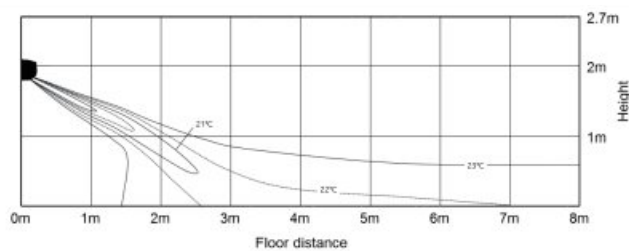


AC035TNXDKG/EU

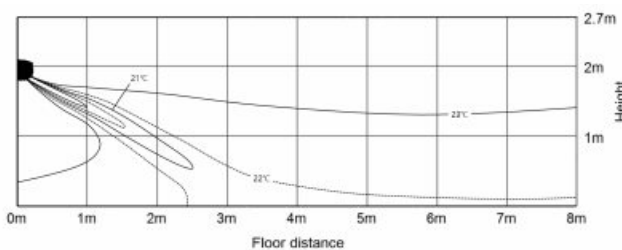
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



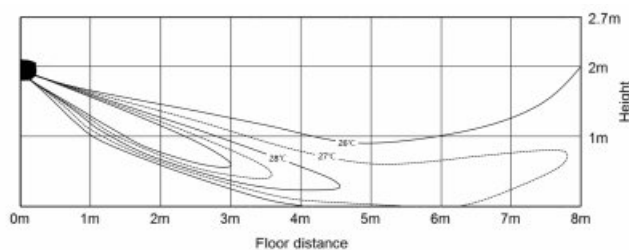
- Cooling temperature distribution
(Discharge angle : 20 degree)



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



- Heating temperature distribution
(Discharge angle : 30 degree)

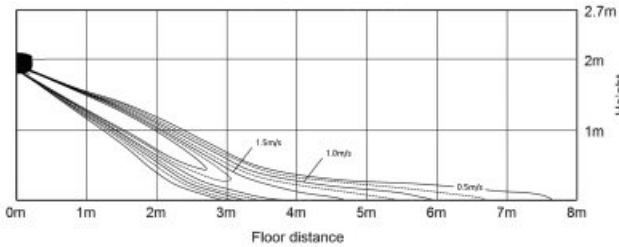


8. Temperature and air flow distribution

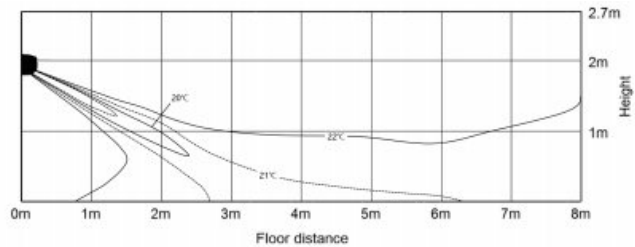
Wall Mounted Type (Wind-Free™)

AC052TNXDKG/EU

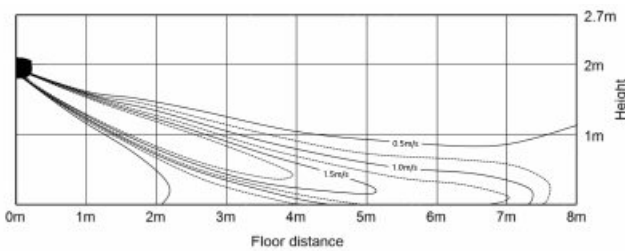
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



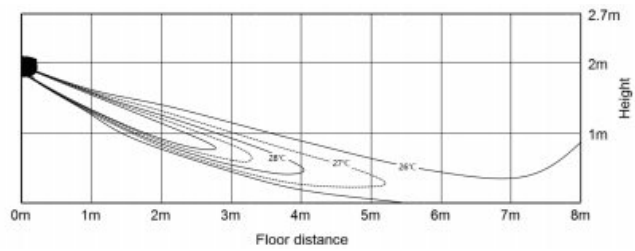
- Cooling temperature distribution
(Discharge angle : 20 degree)



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

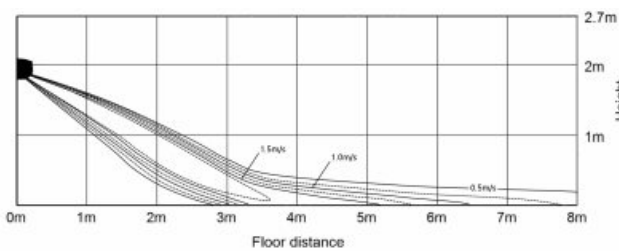


- Heating temperature distribution
(Discharge angle : 30 degree)

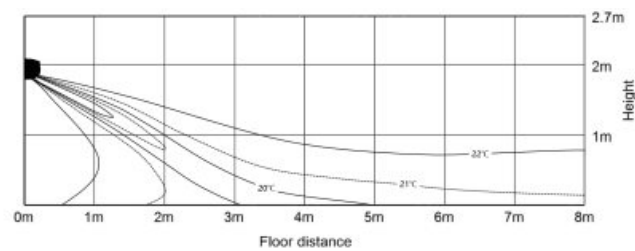


AC071TNXDKG/EU

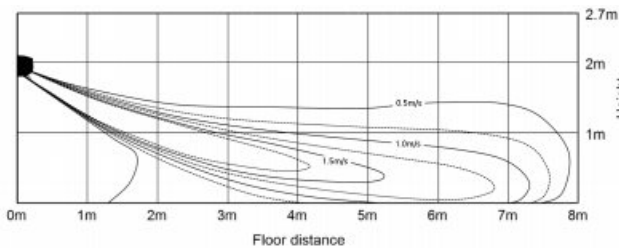
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



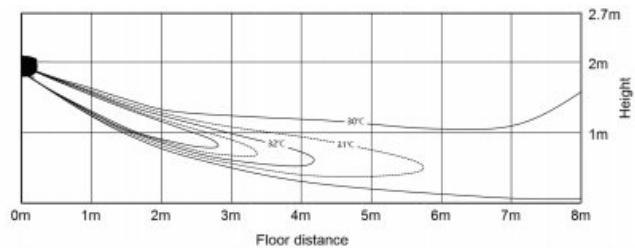
- Cooling temperature distribution
(Discharge angle : 20 degree)



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



- Heating temperature distribution
(Discharge angle : 30 degree)



Wall Mounted Type (A3050)

1. Specification	183
2. Summary Table	189
3. Capacity Table	190
4. Dimensional Drawing	194
5. Center of Gravity	197
6. Electrical Wiring Diagram	198
7. Sound Data	199
8. Temperature and air flow distribution	201

Features & Benefits

Wall Mount Type

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

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

Improved blade operation

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

Superior dust filtration

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

Cleaner, healthier air

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

Good's sleep

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

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

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

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

Faster, farther cooling performance

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

Easy-access maintenance

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



1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit			AC026RNADKG/EU	AC035RNADKG/EU	
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	
Mode				-	HEAT PUMP	
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.96 / 2.60 / 3.60	1.00 / 3.50 / 3.90	
			Btu/h	3,280 / 8,870 / 12,280	3,410 / 11,940 / 13,300	
		Heating	kW	1.00 / 3.30 / 4.00	1.10 / 4.00 / 4.70	
			Btu/h	3,410 / 11,260 / 13,650	3,750 / 13,650 / 16,040	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.18 / 0.74 / 1.20	0.19 / 1.10 / 1.30	
		Heating	kW	0.21 / 1.10 / 1.45	0.23 / 1.55 / 1.80	
	Current Input (Min/Std/Max)	Cooling	A	1.4 / 3.7 / 5.5	1.4 / 5.3 / 6.0	
		Heating	A	1.3 / 5.1 / 7.0	1.4 / 6.9 / 10.5	
	Current	MCA	A	11.6	11.6	
		MFA	A	12.8	12.8	
Efficiency	EER	Cooling	-	3.51	3.18	
	COP	Heating	-	3.00	2.58	
	SEER (Cooling Energy Grade)		-	6.6 (A++)	6.5 (A++)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.0	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)	
	Gas Pipe	Type		Flare connection	Flare connection	
		Φ, mm (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.		20	20
Elevation				15	15	
Chargeless				20	20	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging	kg		0.9	0.9	
		tCO ₂ e			0.61	0.61

1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit			AC026RNADKG/EU	AC035RNADKG/EU
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU
Power Supply				Ø, #, V, Hz	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		-	Crossflow Fan	Crossflow Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	7.7 / 6.2 / 5.0	8.5 / 7.2 / 5.8
			l/s	128.3 / 103.3 / 83.3	141.6 / 120 / 96.6
		Heating (H/M/L)	m ³ /min	8.5 / 7.2 / 5.8	8.5 / 7.2 / 5.8
l/s			141.6 / 120 / 96.6	141.6 / 120 / 96.6	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	27	27
Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 30 / 24 / 21	38 / 32 / 26 / 20
	Sound Power Level		dB(A)	56	59
External Dimension	Net Weight		kg	7.6	7.6
	Shipping Weight		kg	9.0	9.0
	Net Dimensions (WxHxD)		mm	750 x 249 x 246	750 x 249 x 246
	Shipping Dimensions (WxHxD)		mm	800 x 298 x 302	800 x 298 x 302
Casing	Material		-	ABS	ABS
Control System	Infrared remote control		-	AR-EH03E (Included)	AR-EH03E (Included)
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
Additional Accessories	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
	Drain Pump	Max. lifting Height / Displacement	mm / Liter / h	-	-
		Air Filter		-	Removable / Washable
Virus Doctor		-	Included	Included	

1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit		AC026RNADKG/EU	AC035RNADKG/EU
	Outdoor Unit		AC026RXADKG/EU	AC035RXADKG/EU
Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		-	UB9AK5090FER
	Type		-	Single BLDC
	Output		kW	0.86
	Oil	Type	-	POE
Initial charge		cc	320	
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate			m ³ /min
		l/s	500	
Fan Motor	Type		-	BLDC Motor
	Output		W x n	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	46
		Heating	dB(A)	47
	Sound Power Level		dB(A)	59
External Dimension	Net Weight		kg	32.5
	Shipping Weight		kg	35.5
	Net Dimensions (WxHxD)		mm	790 x 548 x 285
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371
Casing	Material	Body	-	EGI Steel Plate
			-	EGI Steel Plate
Operating Temp. Range	Cooling		°C	-15 ~ 46
	Heating		°C	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit			AC052RNADKG/EU	AC071RNADKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.30 / 5.00 / 6.50	1.50 / 7.10 / 8.70
			Btu/h	4,430 / 17,060 / 22,180	5,120 / 24,230 / 29,690
		Heating	kW	1.50 / 6.00 / 6.25	1.90 / 8.00 / 9.00
			Btu/h	5,120 / 20,470 / 21,320	6,480 / 27,300 / 30,710
Power	Power Input (Min/Std/Max)	Cooling	kW	0.40 / 2.20 / 2.30	0.35 / 2.35 / 3.60
		Heating	kW	0.34 / 2.15 / 3.15	0.35 / 2.45 / 3.95
	Current Input (Min/Std/Max)	Cooling	A	2.6 / 9.6 / 10.1	2.0 / 10.3 / 16.0
		Heating	A	2.3 / 9.4 / 14.0	2.0 / 10.7 / 17.0
	Current	MCA	A	18.1	18.1
		MFA	A	20.6	20.6
Efficiency	EER	Cooling	-	2.27	3.02
	COP	Heating	-	2.79	3.27
	SEER (Cooling Energy Grade)		-	6.2 (A++)	6.4 (A++)
	SCOP (Heating Energy Grade)		-	3.9 (A)	4.0 (A+)
	Pdesignh		kW	2.4	3.6
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)
	Gas Pipe	Type		Flare connection	Flare connection
		Φ, mm (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	30	50
Elevation		m	20	30	
Chargeless		m	10	15	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging		kg	1.2	1.7
			tCO ₂ e	0.81	1.15

1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit			AC052RNADKG/EU	AC071RNADKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU
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		-	Crossflow Fan	Crossflow Fan
	Quantity		EA	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.7 / 9.0 / 7.2	17.1 / 14.5 / 12.4
			l/s	178.3 / 150 / 120	285 / 241.6 / 206.6
		Heating (H/M/L)	m ³ /min	10.7 / 9.0 / 7.2	17.1 / 14.5 / 12.4
l/s			178.3 / 150 / 120	285 / 241.6 / 206.6	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	27	27
Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	42 / 37 / 32 / 25	43 / 39 / 35 / 30
	Sound Power Level		dB(A)	60	61
External Dimension	Net Weight		kg	10.8	14.4
	Shipping Weight		kg	12.6	16.8
	Net Dimensions (WxHxD)		mm	896 x 261 x 261	1,065 x 294 x 301
	Shipping Dimensions (WxHxD)		mm	956 x 317 x 335	1,123 x 354 x 384
Casing	Material		-	ABS	ABS
Control System	Infrared remote control		-	AR-EH03E (Included)	AR-EH03E (Included)
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
Additional Accessories	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
	Drain Pump	Max. lifting Height / Displacement	mm / Liter / h	-	-
		Air Filter		-	Removable / Washable
Virus Doctor		-	Included	Included	

1. Specification

Wall Mounted Type (A3050)

Model Name	Indoor Unit			AC052RNADKG/EU	AC071RNADKG/EU	
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU	
Power Supply				Ø, #, V, Hz	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			UB9TK3150FE4	UB4TN8200FE4	
	Type			Twin BLDC	Twin BLDC	
	Output			kW	1.51	
	Oil	Type		-	POE	POE
		Initial charge		cc	500	650
Fan	Type		-	Propeller	Propeller	
	Discharge direction		-	Front	Front	
	Quantity		EA	1	1	
	Air Flow Rate		m ³ /min	40	51	
			l/s	667	850	
Fan Motor	Type			BLDC Motor	BLDC Motor	
	Output			W x n	125 x 1	
Sound	Sound Pressure Level	Cooling	dB(A)	48	49	
		Heating	dB(A)	48	51	
	Sound Power Level		dB(A)	62	65	
External Dimension	Net Weight		kg	43.5	51.5	
	Shipping Weight		kg	46.5	55.0	
	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	-	EGL Steel Plate	EGL Steel Plate	
	Operating Temp. Range			°C	-15 ~ 50	
			°C	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wall Mounted Type (A3050)

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026RNADKG/EU	7.6	Max.	3.60	4.00	High	7.7	36	56
		Std.	2.60	3.30	Mid	6.2	30	
		Min.	0.96	1.00	Low	5.0	24	
AC035RNADKG/EU	7.6	Max.	3.90	4.70	High	8.5	38	59
		Std.	3.50	4.00	Mid	7.2	32	
		Min.	1.00	1.10	Low	5.8	26	
AC052RNADKG/EU	10.8	Max.	6.50	6.25	High	10.7	42	60
		Std.	5.00	6.00	Mid	9.0	37	
		Min.	1.30	1.50	Low	7.2	32	
AC071RNADKG/EU	14.4	Max.	8.70	9.00	High	17.1	43	61
		Std.	7.10	8.00	Mid	14.5	39	
		Min.	1.50	1.90	Low	12.4	35	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC026RNADKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10	10	1.6	11.6	11.6	12.8
AC035RNADKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	1.6	11.6	11.6	12.8
AC052RNADKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.6	18.1	18.1	20.6
AC071RNADKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.6	18.1	18.1	20.6

NOTE

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

3. Capacity Table

Wall Mounted Type (A3050)

(1) AC026RNADKG/EU+AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.5	1.9	0.53	2.7	2.0	0.54	2.8	2.0	0.55	2.9	2.1	0.56	2.9	2.1	0.57	3.1	2.1	0.57	3.2	2.0	0.59
21	2.4	1.8	0.56	2.5	1.9	0.57	2.6	1.9	0.58	2.7	2.0	0.59	2.8	2.0	0.60	2.9	2.0	0.60	3.1	1.9	0.62
35	2.3	1.7	0.70	2.4	1.8	0.71	2.5	1.8	0.73	2.6	1.9	0.74	2.7	1.9	0.75	2.8	1.9	0.75	2.9	1.8	0.77
46	2.0	1.6	0.63	2.1	1.7	0.64	2.1	1.7	0.65	2.2	1.8	0.67	2.3	1.8	0.67	2.4	1.7	0.68	2.5	1.7	0.69

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
-20	2.3	1.46	2.3	1.44	2.3	1.43	2.3	1.42	2.2	1.40	2.2	1.39
-15	2.9	1.68	2.9	1.67	2.9	1.65	2.8	1.63	2.8	1.62	2.8	1.60
-5	3.3	1.57	3.3	1.56	3.2	1.54	3.2	1.52	3.2	1.51	3.1	1.49
0	3.4	1.35	3.4	1.33	3.4	1.32	3.3	1.31	3.3	1.29	3.3	1.28
7	3.4	1.12	3.3	1.11	3.3	1.10	3.3	1.09	3.2	1.08	3.2	1.07
24	4.4	1.29	4.3	1.28	4.3	1.27	4.2	1.25	4.2	1.24	4.2	1.23

NOTE

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

3. Capacity Table

Wall Mounted Type (A3050)

(2) AC035RNADKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.4	0.79	3.6	2.5	0.80	3.7	2.6	0.82	3.9	2.6	0.84	3.9	2.6	0.84	4.1	2.6	0.85	4.3	2.5	0.87
21	3.3	2.3	0.83	3.4	2.4	0.85	3.6	2.4	0.86	3.7	2.5	0.88	3.7	2.5	0.89	3.9	2.5	0.90	4.1	2.4	0.92
35	3.1	2.2	1.04	3.3	2.3	1.06	3.4	2.3	1.08	3.5	2.4	1.10	3.6	2.4	1.11	3.7	2.4	1.12	3.9	2.3	1.14
46	2.6	2.1	0.93	2.8	2.1	0.95	2.9	2.2	0.97	3.0	2.3	0.99	3.0	2.2	1.00	3.2	2.2	1.01	3.3	2.2	1.03
50	2.0	1.6	0.83	2.1	1.7	0.85	2.2	1.7	0.86	2.3	1.8	0.88	2.3	1.8	0.89	2.4	1.8	0.90	2.6	1.7	0.92

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	2.06	2.8	2.04	2.8	2.02	2.7	1.99	2.7	1.97	2.7	1.96
-15	3.5	2.37	3.5	2.35	3.5	2.33	3.4	2.30	3.4	2.28	3.4	2.26
-5	4.0	2.21	4.0	2.19	3.9	2.17	3.9	2.15	3.8	2.13	3.8	2.11
0	4.2	1.90	4.1	1.88	4.1	1.86	4.0	1.84	4.0	1.82	4.0	1.80
7	4.1	1.58	4.0	1.57	4.0	1.55	4.0	1.53	3.9	1.52	3.9	1.50
24	5.3	1.82	5.3	1.80	5.2	1.78	5.1	1.76	5.1	1.75	5.0	1.73

NOTE

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

3. Capacity Table

Wall Mounted Type (A3050)

(3) AC052RNADKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.4	1.57	5.1	3.5	1.61	5.3	3.6	1.64	5.5	3.7	1.67	5.6	3.7	1.69	5.9	3.7	1.71	6.2	3.6	1.74
21	4.6	3.3	1.66	4.9	3.4	1.69	5.1	3.5	1.72	5.3	3.6	1.76	5.4	3.5	1.78	5.6	3.5	1.80	5.9	3.4	1.83
35	4.4	3.1	2.07	4.7	3.2	2.11	4.9	3.3	2.16	5.0	3.4	2.20	5.1	3.4	2.22	5.4	3.3	2.24	5.6	3.3	2.29
46	3.8	2.9	1.86	4.0	3.0	1.90	4.1	3.1	1.94	4.3	3.2	1.98	4.3	3.2	2.00	4.6	3.1	2.02	4.8	3.1	2.06
50	2.9	2.3	1.66	3.0	2.4	1.69	3.2	2.5	1.72	3.3	2.5	1.76	3.3	2.5	1.78	3.5	2.5	1.80	3.7	2.4	1.83

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.2	2.85	4.2	2.82	4.1	2.80	4.1	2.77	4.1	2.74	4.0	2.71
-15	5.3	3.29	5.3	3.26	5.2	3.23	5.2	3.19	5.1	3.16	5.1	3.13
-5	6.0	3.07	5.9	3.04	5.9	3.01	5.8	2.98	5.8	2.95	5.7	2.92
0	6.2	2.63	6.2	2.61	6.1	2.58	6.1	2.55	6.0	2.53	5.9	2.50
7	6.1	2.19	6.1	2.17	6.0	2.15	5.9	2.13	5.9	2.11	5.8	2.09
24	8.0	2.52	7.9	2.50	7.8	2.47	7.7	2.45	7.6	2.42	7.6	2.40

NOTE

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

3. Capacity Table

Wall Mounted Type (A3050)

(4) AC071RNADKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	5.1	1.68	7.3	5.3	1.72	7.6	5.5	1.75	7.8	5.6	1.79	8.0	5.6	1.80	8.4	5.5	1.82	8.8	5.4	1.86
21	6.6	4.9	1.77	6.9	5.0	1.81	7.2	5.2	1.84	7.5	5.4	1.88	7.6	5.3	1.90	8.0	5.2	1.92	8.4	5.1	1.96
35	6.3	4.7	2.21	6.6	4.8	2.26	6.9	4.9	2.30	7.1	5.1	2.35	7.2	5.0	2.37	7.6	5.0	2.40	8.0	4.9	2.44
46	5.3	4.5	1.99	5.6	4.7	2.03	5.9	4.8	2.07	6.0	5.0	2.12	6.2	4.9	2.14	6.5	4.9	2.16	6.8	4.8	2.20
50	4.1	3.6	1.77	4.3	3.7	1.81	4.5	3.8	1.84	4.6	4.0	1.88	4.7	3.9	1.90	4.9	3.9	1.92	5.2	3.8	1.96

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.25	5.6	3.22	5.5	3.19	5.5	3.15	5.4	3.12	5.4	3.09
-15	7.1	3.75	7.0	3.71	7.0	3.68	6.9	3.64	6.8	3.60	6.8	3.57
-5	8.0	3.50	7.9	3.46	7.8	3.43	7.8	3.40	7.7	3.36	7.6	3.33
0	8.3	3.00	8.2	2.97	8.2	2.94	8.1	2.91	8.0	2.88	7.9	2.85
7	8.2	2.50	8.1	2.47	8.0	2.45	7.9	2.43	7.8	2.40	7.8	2.38
24	10.6	2.87	10.5	2.85	10.4	2.82	10.3	2.79	10.2	2.76	10.1	2.73

NOTE

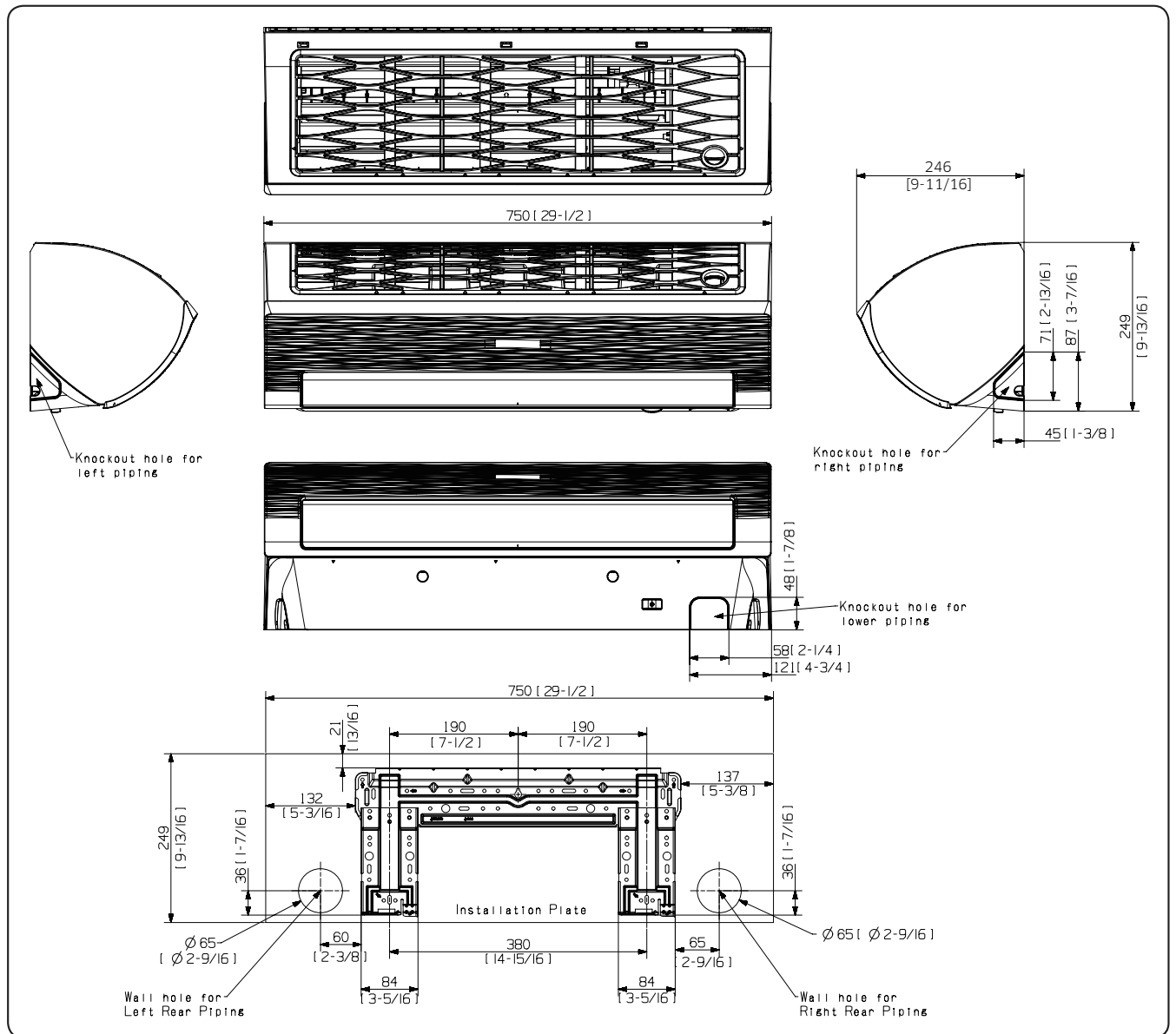
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wall Mounted Type (A3050)

AC026/035RNADKG/EU

Units : mm [inches]

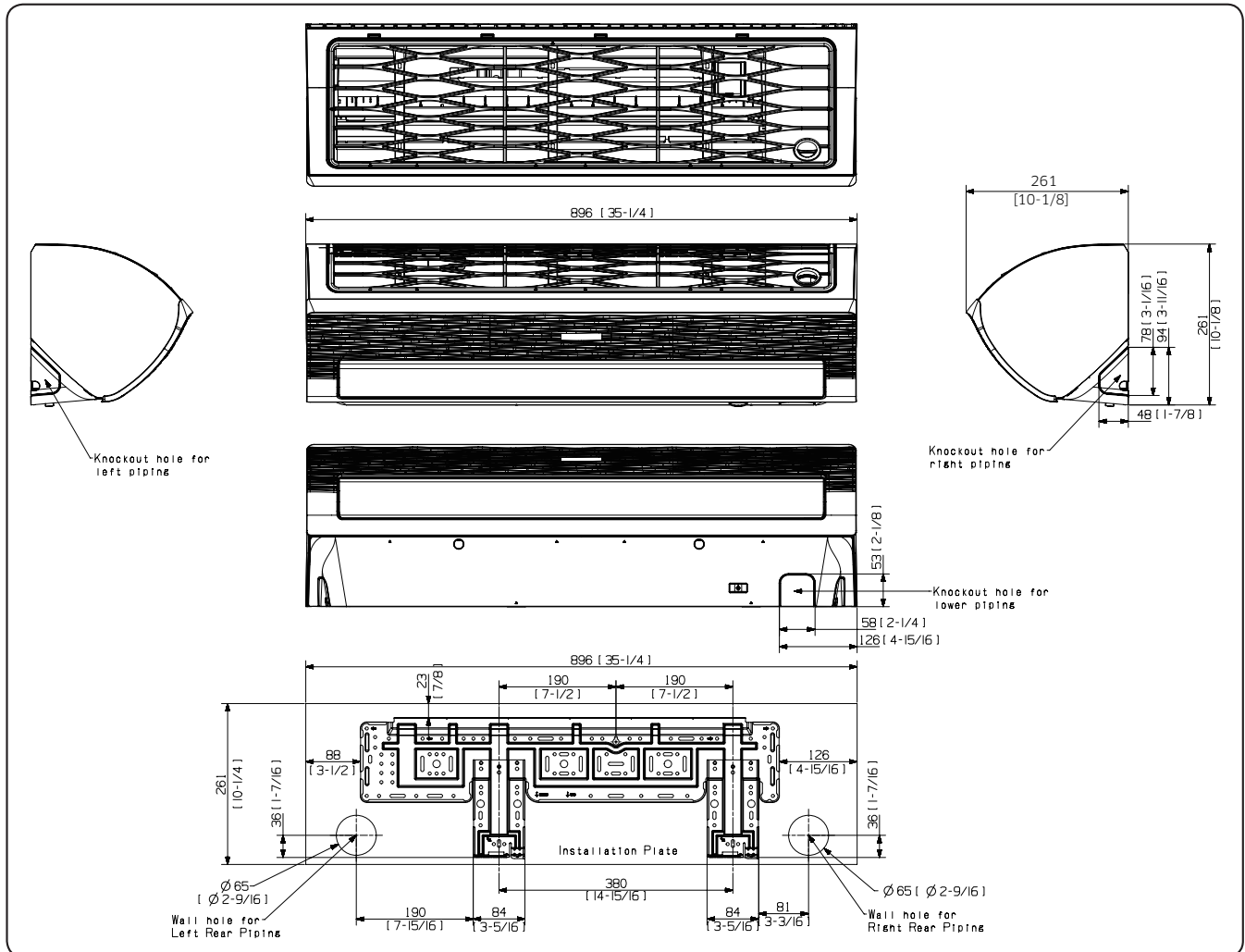


4. Dimensional Drawing

Wall Mounted Type (A3050)

AC052RNADKG/EU

Units : mm [inches]

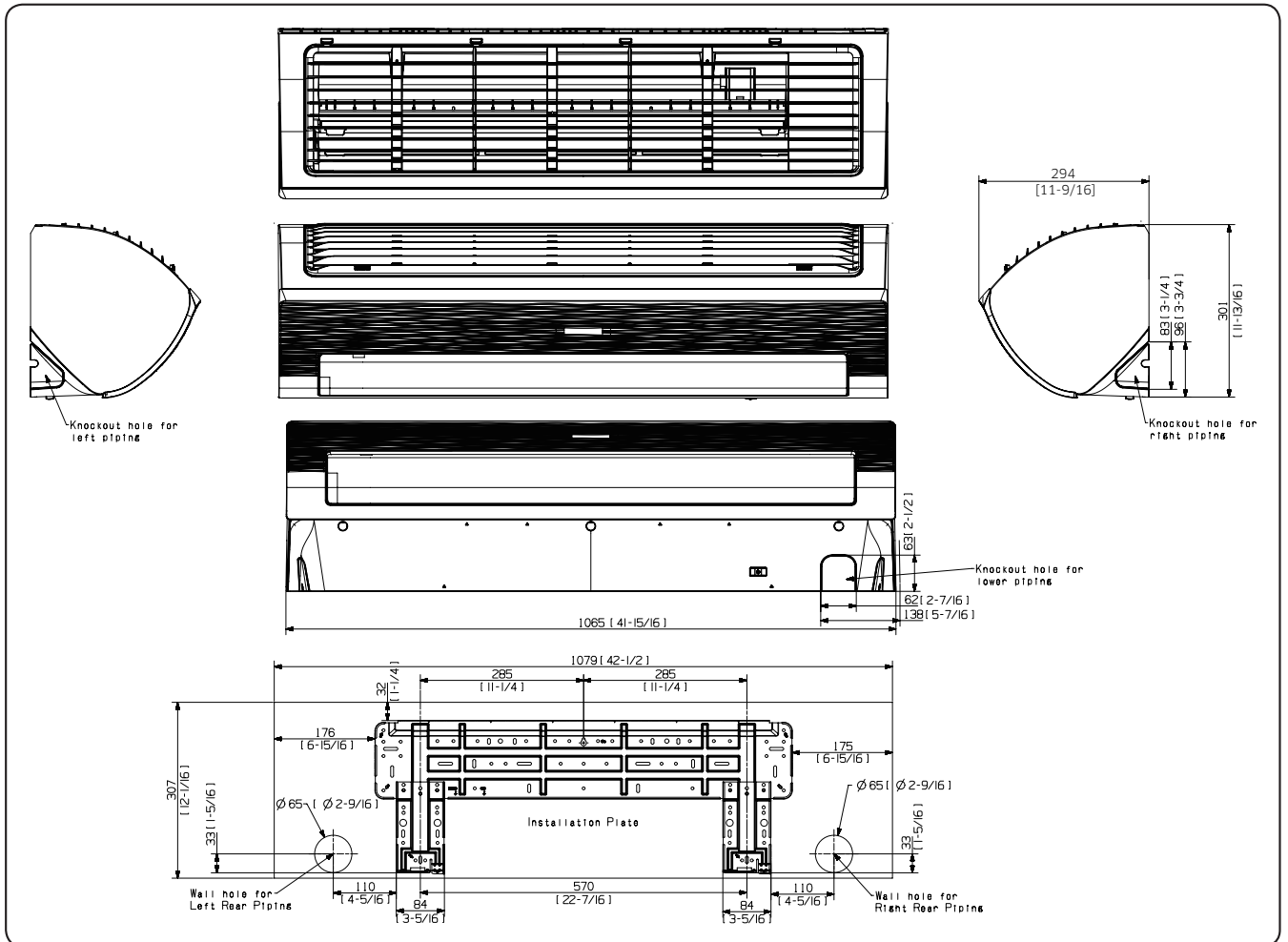


4. Dimensional Drawing

Wall Mounted Type (A3050)

AC071RNADKG/EU

Units : mm [inches]

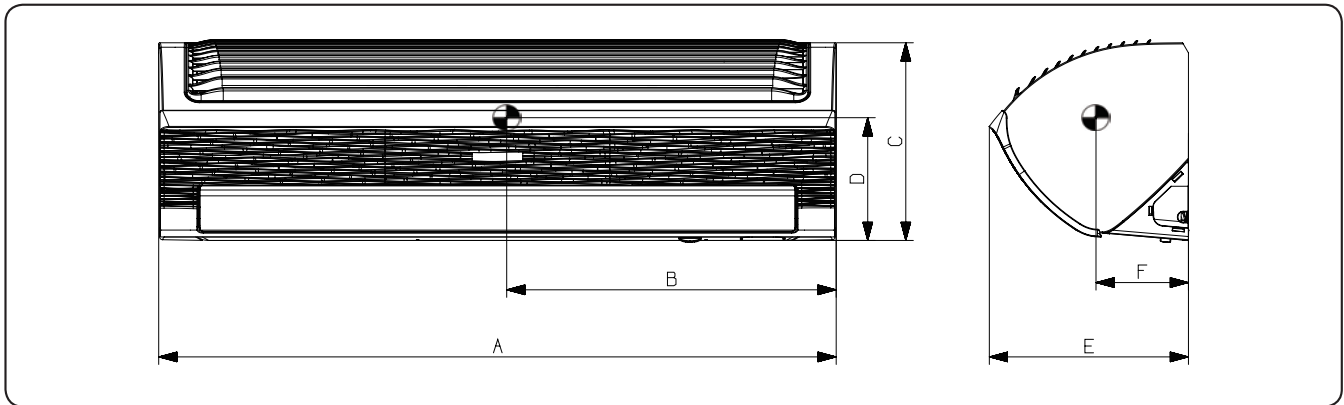


5. Center of Gravity

Wall Mounted Type (A3050)

AC026/035/052/071RNADKG/EU

Units : mm [inches]

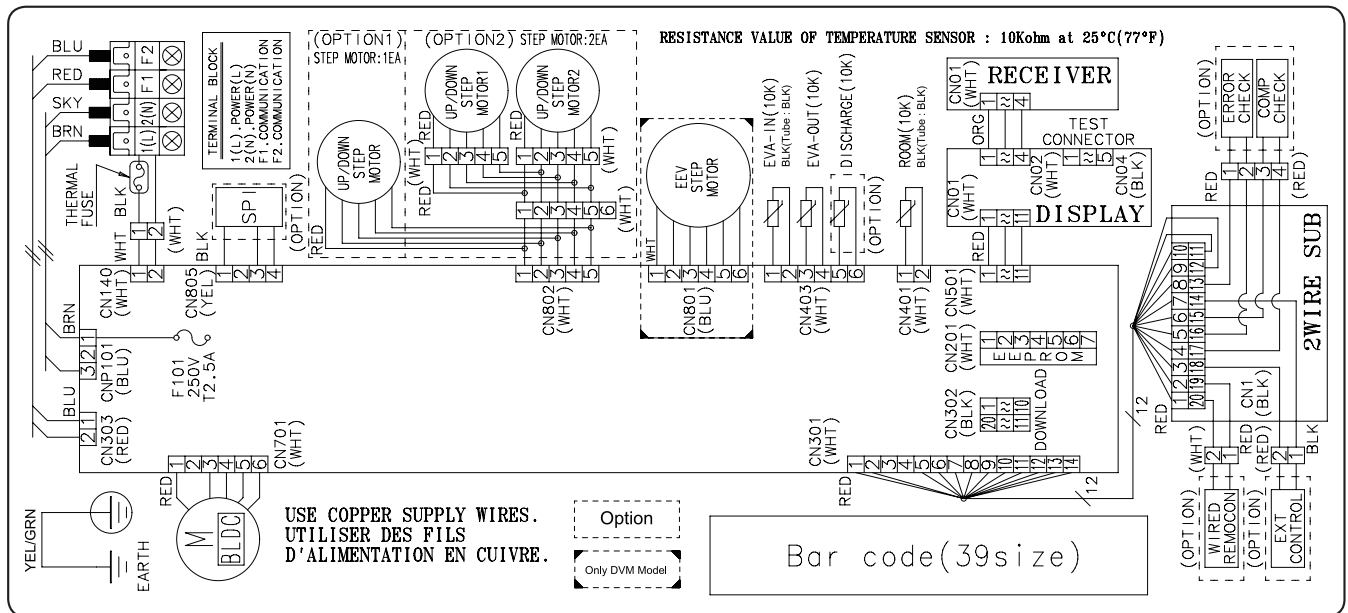


	A	B	C	D	E	F
~3.5kW	750 [29-1/2]	335 [13-3/16]	249 [9-13/16]	130 [5-1/8]	246 [9-11/16]	105 [4-1/8]
5.2kW	896 [35-1/4]	400 [15-3/4]	261 [10-1/4]	130 [5-1/8]	261 [10-1/8]	105 [4-1/8]
7.1kW	1065 [41-15/16]	470 [18-1/2]	307 [12-1/16]	130 [5-1/8]	300 [11-9/16]	105 [4-1/8]

6. Electrical Wiring Diagram

Wall Mounted Type (A3050)

AC026/035/052/071RNADKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

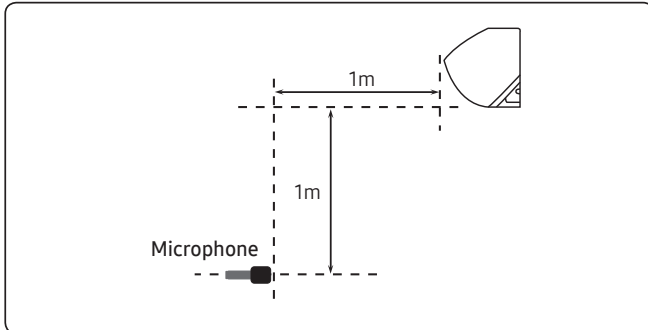
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Wall Mounted Type (A3050)

Sound Pressure level

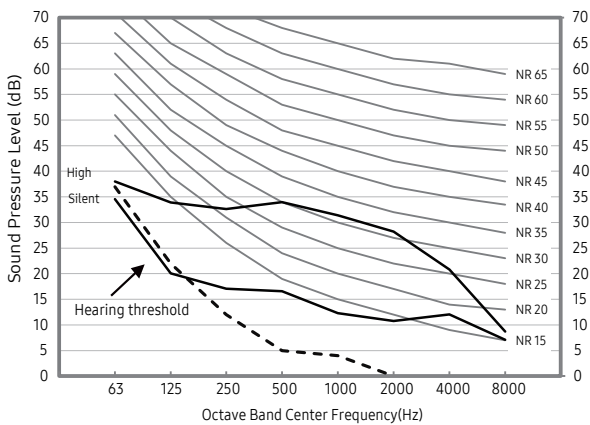
Unit: dB(A)



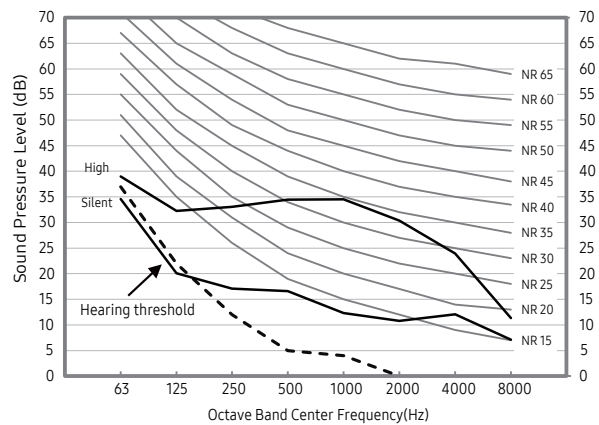
Model	HIGH	MID	LOW	Silence
AC026RNADKG/EU	36	30	24	21
AC035RNADKG/EU	38	32	26	20
AC052RNADKG/EU	42	37	32	25
AC071RNADKG/EU	43	40	35	30

- NR Curve

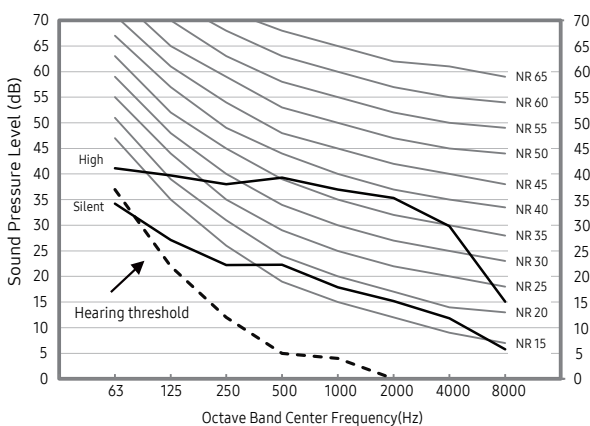
1) AC026RNADKG/EU



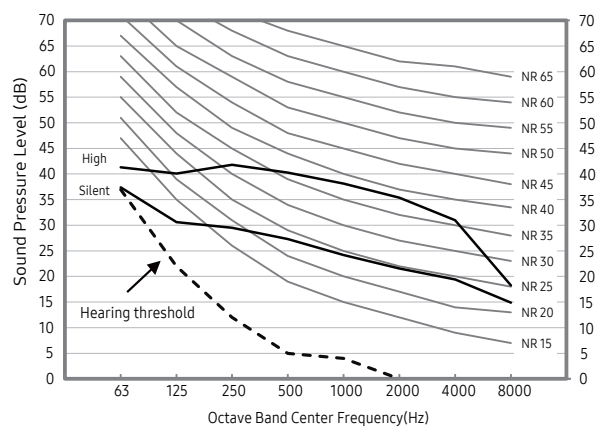
2) AC035RNADKG/EU



3) AC052RNADKG/EU



4) AC071RNADKG/EU



NOTE

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

7. Sound Data

Wall Mounted Type (A3050)

Sound Power level

Unit: dB(A)

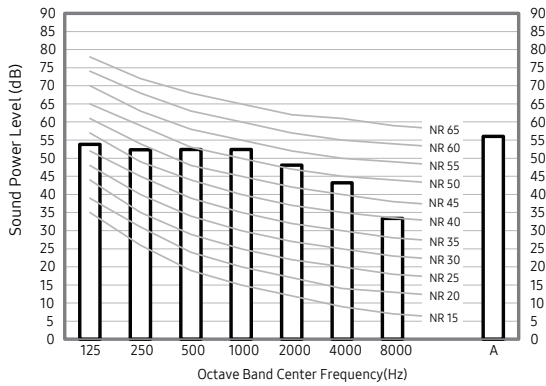
NOTE

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

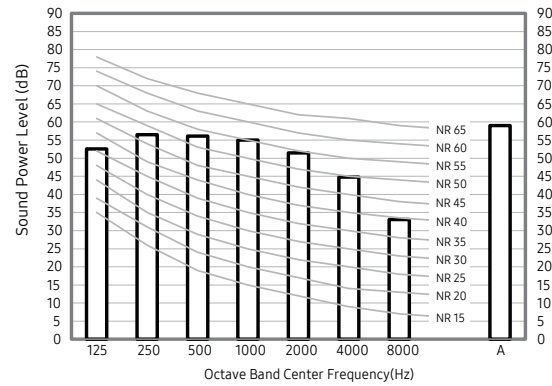
Model	Power
AC026RNADKG/EU	56
AC035RNADKG/EU	59
AC052RNADKG/EU	60
AC071RNADKG/EU	61

NR Curve

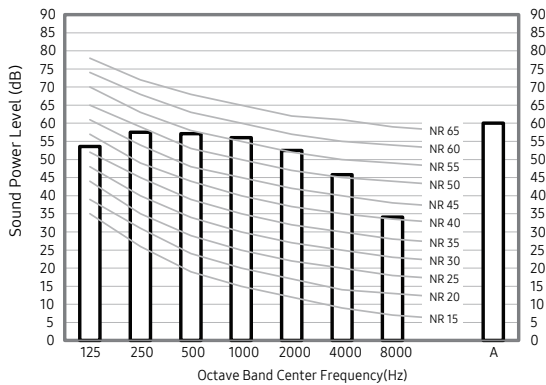
1) AC026RNADKG/EU



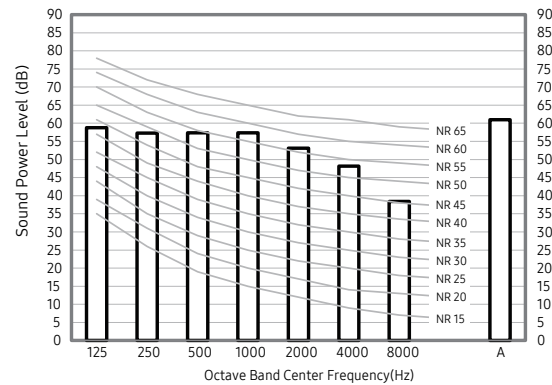
2) AC035RNADKG/EU



3) AC052RNADKG/EU



4) AC071RNADKG/EU

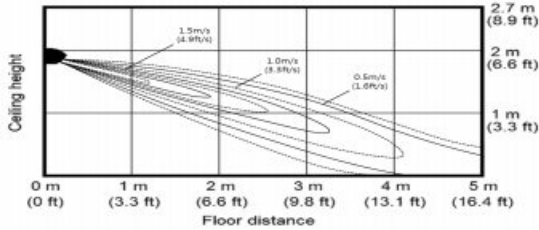


8. Temperature and air flow distribution

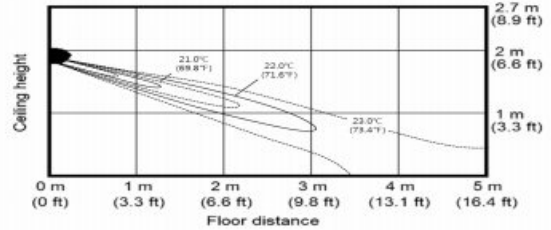
Wall Mounted Type (A3050)

AC026RNADKG/EU

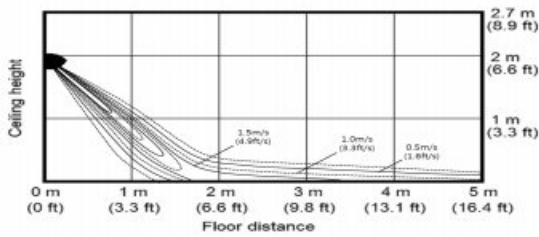
- Cooling Air Velocity distribution
(Discharge angle : 23 degree)



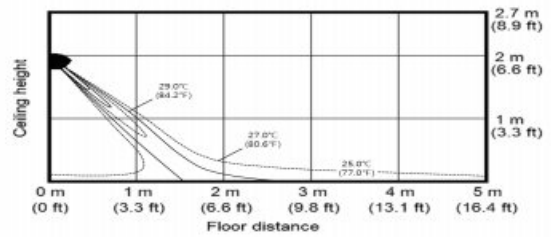
- Cooling temperature distribution
(Discharge angle : 23 degree)



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

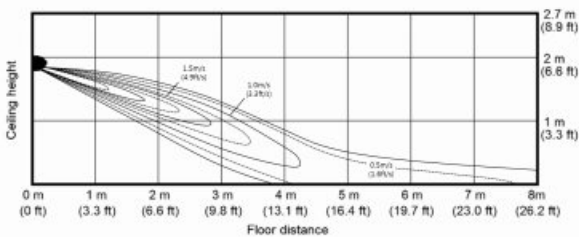


- Heating temperature distribution
(Discharge angle : 53 degree)

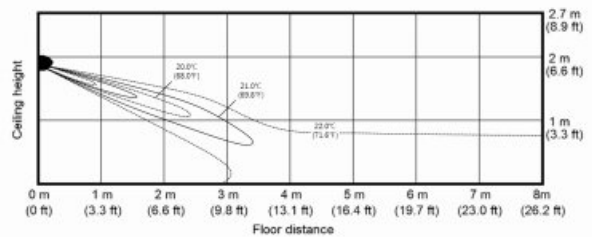


AC035RNADKG/EU

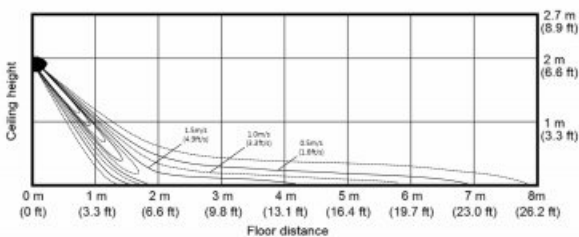
- Cooling Air Velocity distribution
(Discharge angle : 23 degree)



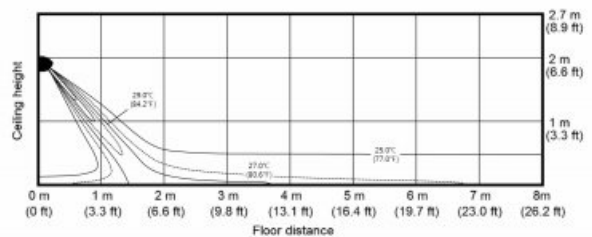
- Cooling temperature distribution
(Discharge angle : 23 degree)



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



- Heating temperature distribution
(Discharge angle : 53 degree)



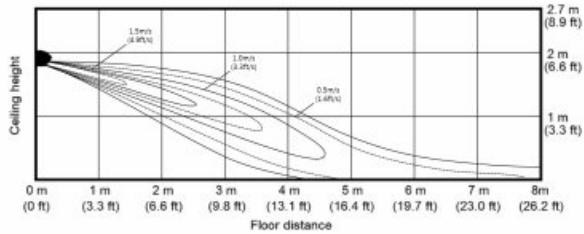
8. Temperature and air flow distribution

Wall Mounted Type (A3050)

AC052RNADKG/EU

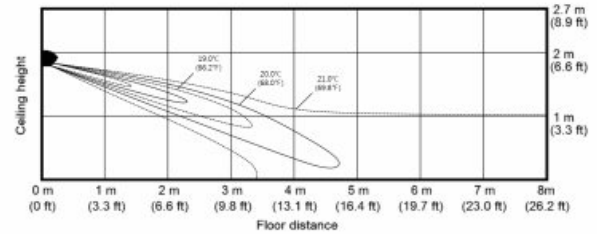
- Cooling Air Velocity distribution

(Discharge angle : 16 degree)



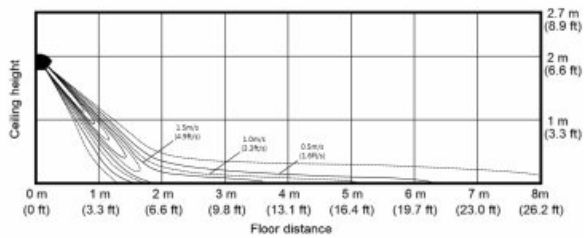
- Cooling temperature distribution

(Discharge angle : 16 degree)



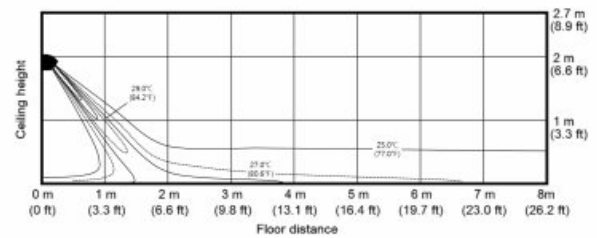
- Heating Air Velocity distribution

(Discharge angle : 46 degree)



- Heating temperature distribution

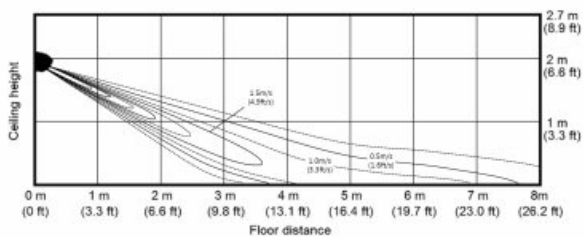
(Discharge angle : 46 degree)



AC071RNADKG/EU

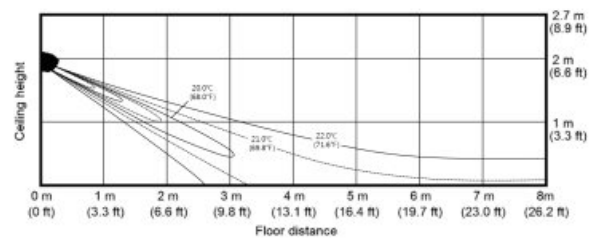
- Cooling Air Velocity distribution

(Discharge angle : 28 degree)



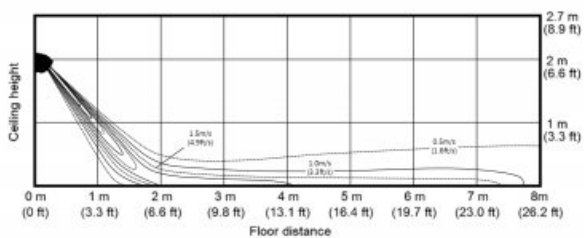
- Cooling temperature distribution

(Discharge angle : 28 degree)



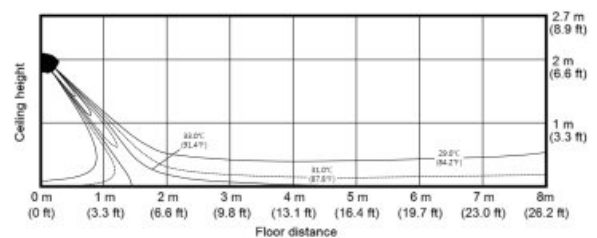
- Heating Air Velocity distribution

(Discharge angle : 58 degree)



- Heating temperature distribution

(Discharge angle : 58 degree)



Wall Mounted Type (MAX)

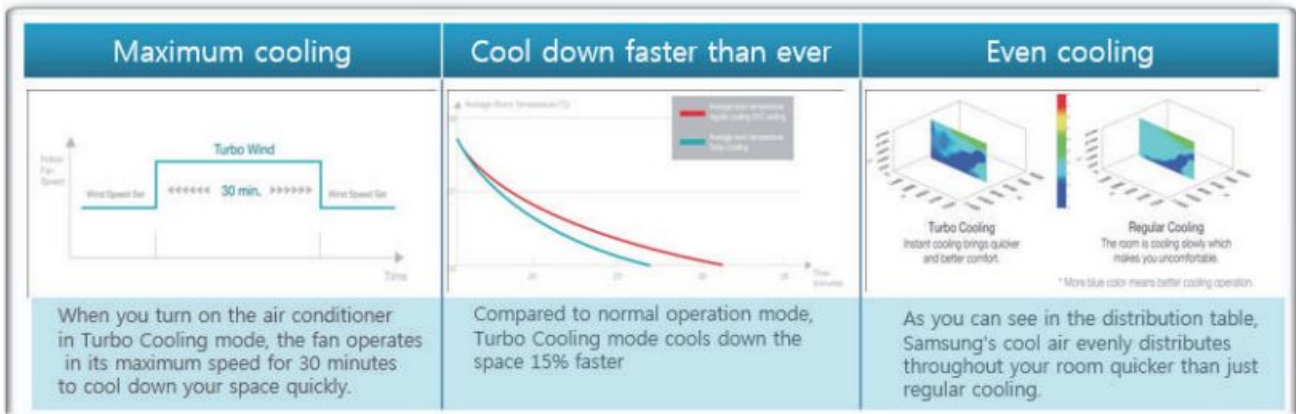
1. Specification	205
2. Summary Table	208
3. Capacity Table	209
4. Dimensional Drawing	211
5. Center of Gravity	212
6. Electrical Wiring Diagram	213
7. Sound Data	214
8. Temperature and air flow distribution	216

Features & Benefits

Wall Mount Type

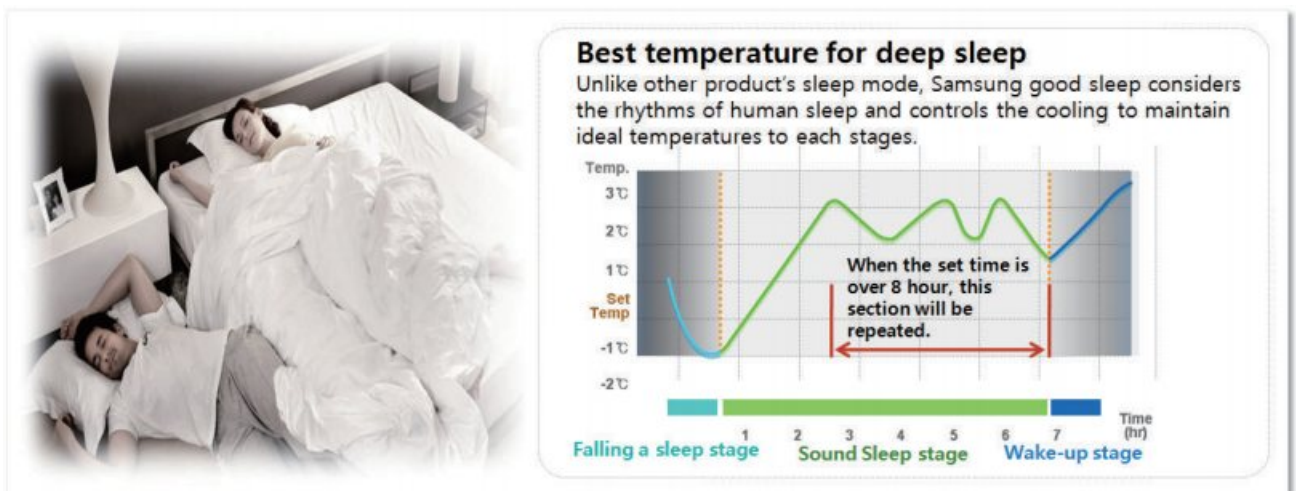
TURBO Cooling mode

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



Good sleep

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



1. Specification

Wall Mounted Type (MAX)

Model Name	Indoor Unit			AC100RNTDKG/EU	AC100RNTDKG/EU
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 9.5 / 11.0	3.0 / 9.5 / 11.0
			Btu/h	10,240 / 32,420 / 37,530	10,240 / 32,420 / 37,530
		Heating	kW	2.2 / 10.8 / 15.5	2.2 / 10.8 / 15.5
			Btu/h	7,500 / 36,850 / 52,900	7,500 / 36,850 / 52,900
Power	Power Input (Min/Std/Max)	Cooling	kW	0.60 / 3.75 / 5.10	0.60 / 3.62 / 5.10
		Heating	kW	0.46 / 3.82 / 5.40	0.46 / 3.62 / 5.40
	Current Input (Min/Std/Max)	Cooling	A	3.0 / 16.3 / 22.5	1.5 / 5.7 / 7.7
		Heating	A	2.5 / 16.7 / 23.0	1.2 / 5.7 / 8.4
	Current	MCA	A	25.6	17.7
		MFA	A	30.0	17.7
Efficiency	EER	Cooling	-	2.53	2.62
	COP	Heating	-	2.82	2.98
	SEER (Cooling Energy Grade)		-	5.9 (A+)	5.9 (A+)
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)
	Pdesignh		kW	5.6	5.6
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)
	Gas Pipe	Type		Flare connection	Flare connection
		Φ, mm (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	50	50
Elevation		m	30	30	
Chargeless		m	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging	kg	2.7	2.7	
		tCO ₂ e	1.82	1.82	

1. Specification

Wall Mounted Type (MAX)

Indoor Unit	Model Name		Indoor Unit	AC100RNTDKG/EU	AC100RNTDKG/EU
			Outdoor Unit	AC100RXADKG/EU	AC100RXADNG/EU
	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		-	Crossflow	Crossflow
	Quantity		EA	2	2
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	22.7 / 19.8 / 17.8	22.7 / 19.8 / 17.8
			l/s	378 / 330 / 297	378 / 330 / 297
		Heating (H/M/L)	m ³ /min	24.0 / 21.3 / 19.2	24.0 / 21.3 / 19.2
l/s			400 / 355 / 320	400 / 355 / 320	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x n	58 x 1	58 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	49 / 46 / 43 / 37	49 / 46 / 43 / 37
	Sound Power Level		dB(A)	65	65
External Dimension	Net Weight		kg	18.5	18.5
	Shipping Weight		kg	22.0	22.0
	Net Dimensions (WxHxD)		mm	1,280 x 345 x 253	1,280 x 345 x 253
	Shipping Dimensions (WxHxD)		mm	1,352 x 326 x 420	1,352 x 326 x 420
Casing	Material		-	ABS	ABS
Control System	Infrared remote control		-	Included	Included
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-
Additional Accessories	Drain Pump	External Model	-	-	-
		Internal Model	-	-	-
		Max. lifting Height / Displacement	mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
	Virus Doctor		-	-	-

1. Specification

Wall Mounted Type (MAX)

Model Name	Indoor Unit		AC100RNTDKG/EU	AC100RNTDKG/EU
	Outdoor Unit		AC100RXADKG/EU	AC100RXADNG/EU
Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		UB8TN8300FJU	UB8TN8300FJU
	Type		-	Twin BLDC
	Output		kW	2.91
	Oil	Type	-	POE
Initial charge		cc	1,200	
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate		m ³ /min	72
l/s			1,200	
Fan Motor	Type		-	BLDC Motor
	Output		W x n	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	52
		Heating	dB(A)	54
	Sound Power Level		dB(A)	69
External Dimension	Net Weight		kg	75.0
	Shipping Weight		kg	80.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426
Casing	Material	Body	-	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 50
			°C	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Wall Mounted Type (MAX)

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
		Max.	Cooling (kW)	Heating (kW)				
AC100RNTDKG/EU	18.5	Max.	11.00	15.50	High	22.7	49	65
		Std.	9.50	10.80	Mid	19.8	46	
		Min.	3.00	2.20	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 Hz	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
			Volts	Min.	Max.	Cooling	Heating				
AC100RNTDKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	24.6	24.6	1.0	25.6	25.6	30.0
AC100RNTDKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	16.7	16.7	1.0	17.7	17.7	17.7

NOTE

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

3. Capacity Table

Wall Mounted Type (MAX)

(1) AC100RNTDKG/EU+AC100RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.3	6.7	2.68	9.8	6.9	2.74	10.2	7.1	2.79	10.5	7.3	2.85	10.7	7.3	2.88	11.2	7.2	2.91	11.8	7.0	2.97
21	8.8	6.4	2.82	9.3	6.6	2.88	9.7	6.8	2.94	10.0	7.0	3.00	10.2	6.9	3.03	10.7	6.8	3.06	11.2	6.7	3.12
35	8.4	6.1	3.53	8.8	6.3	3.60	9.2	6.5	3.68	9.5	6.7	3.75	9.7	6.6	3.79	10.2	6.5	3.83	10.7	6.4	3.90
46	7.1	5.7	3.71	7.5	5.9	3.78	7.8	6.1	3.86	8.1	6.2	3.94	8.2	6.2	3.98	8.6	6.1	4.02	9.1	6.0	4.10
50	5.5	4.5	3.07	5.8	4.6	3.13	6.0	4.8	3.20	6.2	4.9	3.26	6.3	4.9	3.30	6.6	4.8	3.33	6.9	4.7	3.39

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.6	5.07	7.5	5.02	7.5	4.97	7.4	4.92	7.3	4.87	7.2	4.82
-15	9.6	5.46	9.5	5.40	9.4	5.35	9.3	5.29	9.2	5.24	9.1	5.19
-5	10.8	5.85	10.7	5.79	10.6	5.73	10.5	5.67	10.4	5.62	10.3	5.56
0	11.2	4.68	11.1	4.63	11.0	4.58	10.9	4.54	10.8	4.49	10.7	4.45
7	11.0	3.90	10.9	3.86	10.8	3.82	10.7	3.78	10.6	3.74	10.5	3.71
24	14.3	4.48	14.2	4.44	14.0	4.39	13.9	4.35	13.8	4.31	13.6	4.26

NOTE

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

3. Capacity Table

Wall Mounted Type (MAX)

(2) AC100RNTDKG/EU+AC100RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.3	6.7	2.59	9.8	6.9	2.64	10.2	7.1	2.70	10.5	7.3	2.75	10.7	7.3	2.78	11.2	7.2	2.81	11.8	7.0	2.86
21	8.8	6.4	2.73	9.3	6.6	2.78	9.7	6.8	2.84	10.0	7.0	2.90	10.2	6.9	2.92	10.7	6.8	2.95	11.2	6.7	3.01
35	8.4	6.1	3.41	8.8	6.3	3.48	9.2	6.5	3.55	9.5	6.7	3.62	9.7	6.6	3.66	10.2	6.5	3.69	10.7	6.4	3.77
46	7.4	5.9	3.75	7.8	6.1	3.82	8.1	6.3	3.90	8.4	6.5	3.98	8.5	6.4	4.02	9.0	6.3	4.06	9.4	6.2	4.14
50	6.1	5.0	3.34	6.4	5.1	3.41	6.6	5.3	3.48	6.8	5.5	3.55	7.0	5.4	3.58	7.3	5.4	3.62	7.7	5.3	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
-20	7.6	4.80	7.5	4.75	7.5	4.71	7.4	4.66	7.3	4.61	7.2	4.57
-15	9.6	5.17	9.5	5.12	9.4	5.07	9.3	5.02	9.2	4.97	9.1	4.92
-5	10.8	5.54	10.7	5.48	10.6	5.43	10.5	5.38	10.4	5.32	10.3	5.27
0	11.2	4.43	11.1	4.39	11.0	4.34	10.9	4.30	10.8	4.26	10.7	4.21
7	11.0	3.69	10.9	3.66	10.8	3.62	10.7	3.58	10.6	3.55	10.5	3.51
24	14.3	4.25	14.2	4.20	14.0	4.16	13.9	4.12	13.8	4.08	13.6	4.04

NOTE

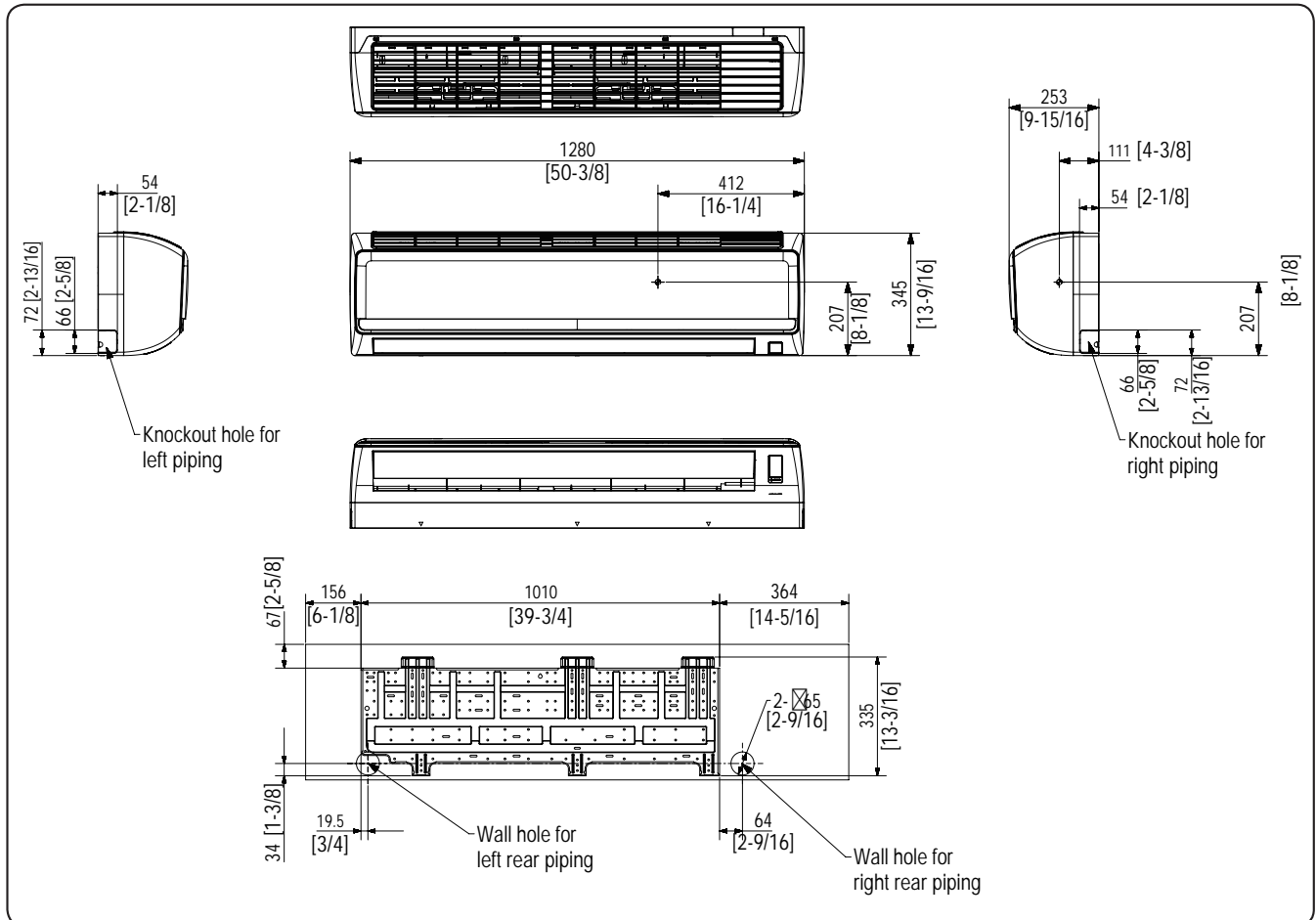
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wall Mounted Type (MAX)

AC100RNTDKG/EU

Units : mm [inches]

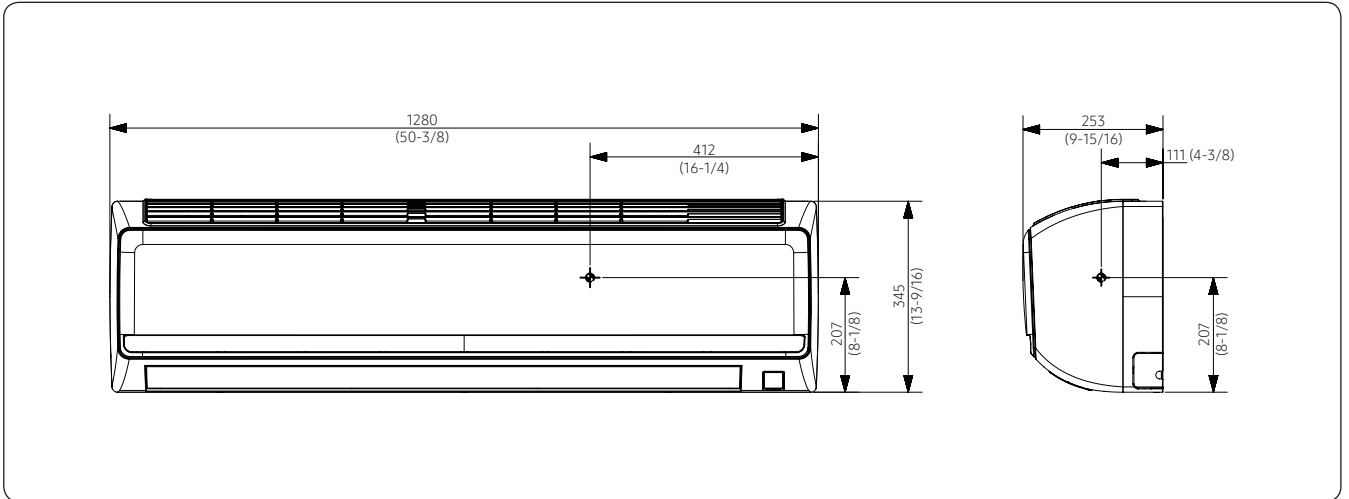


5. Center of Gravity

Wall Mounted Type (MAX)

AC100RNTDKG/EU

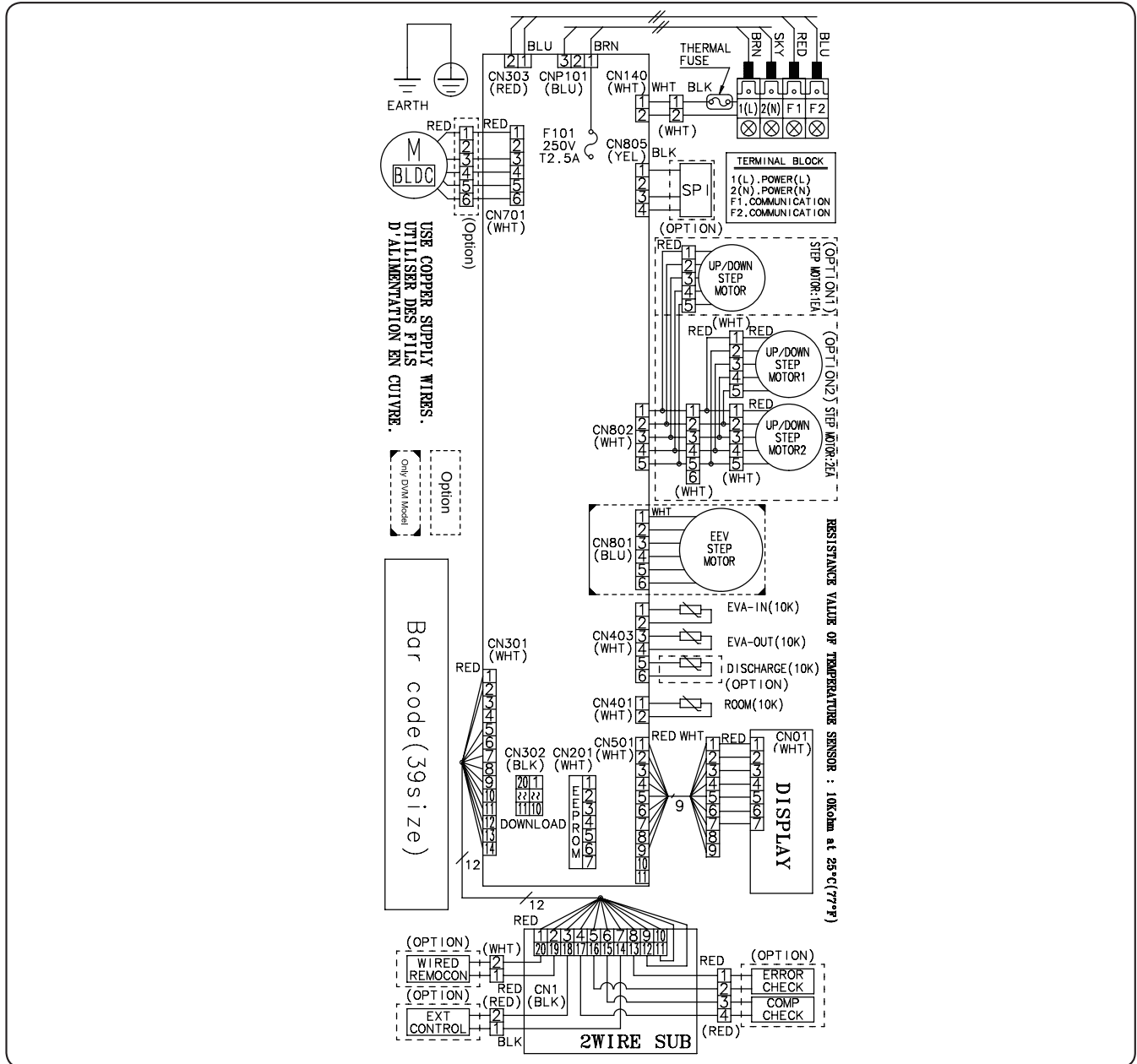
Units : mm [inches]



6. Electrical Wiring Diagram

Wall Mounted Type (MAX)

AC100RNTDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

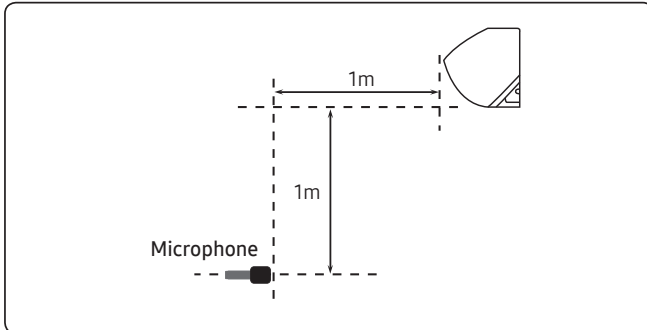
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow : blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Wall Mounted Type (MAX)

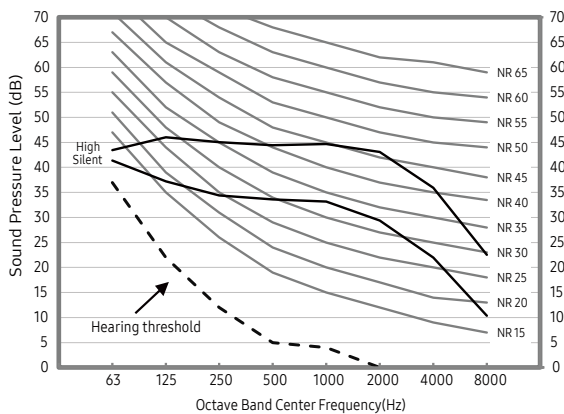
Sound Pressure level

Unit: dB(A)



Model	HIGH	MID	LOW	Silence
AC100RNTDKG/EU	49	46	43	37

- NR Curve
 - 1) AC100RNTDKG/EU



NOTE

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

7. Sound Data

Wall Mounted Type (MAX)

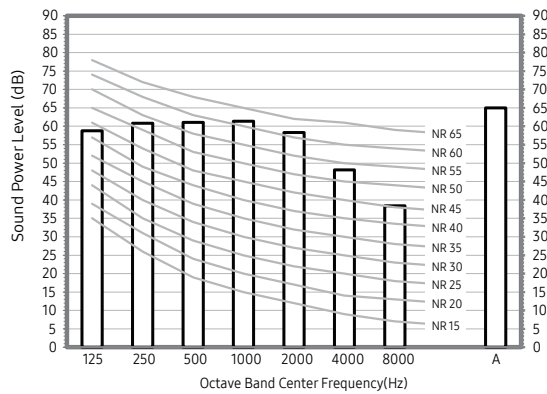
Sound Power level

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.
- NR Curve
 - 1) AC100RNTDKG/EU

Unit: dB(A)

Model	Power
AC100RNTDKG/EU	65



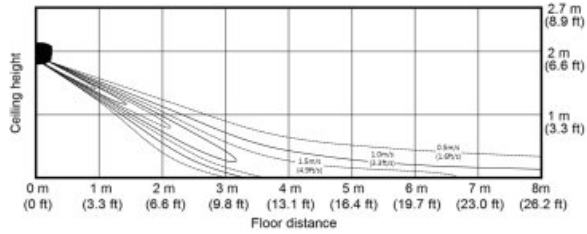
8. Temperature and air flow distribution

Wall Mounted Type (MAX)

AC100RNTDKG/EU

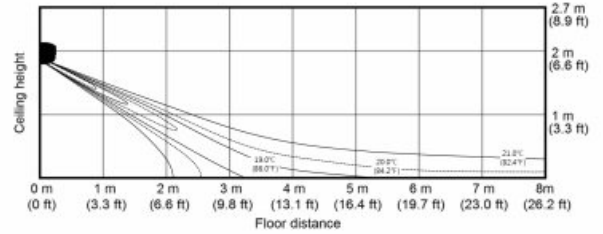
- Cooling Air Velocity distribution

(Discharge angle : 26 degree)



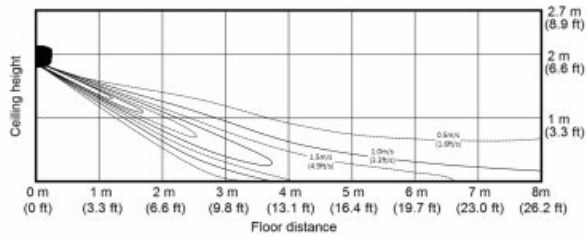
- Cooling temperature distribution

(Discharge angle : 26 degree)



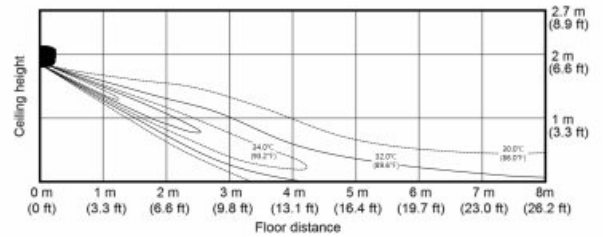
- Heating Air Velocity distribution

(Discharge angle : 26 degree)



- Heating temperature distribution

(Discharge angle : 26 degree)



Console

1. Specification	219
2. Summary Table	222
3. Capacity Table	223
4. Dimensional Drawing	226
5. Center of Gravity	227
6. Electrical Wiring Diagram	228
7. Sound Data	229
8. Temperature and air flow distribution	231

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 Consoles 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

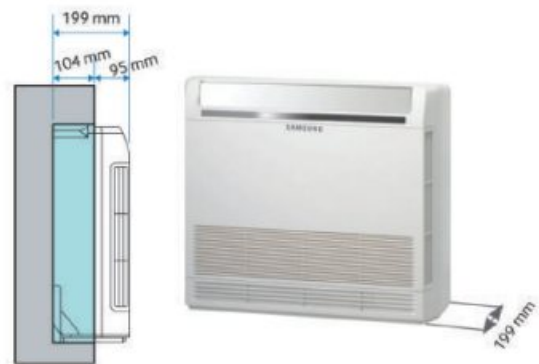
Samsung's console type air conditioner is only 199 mm thick, the slimmest on the market, and its unobtrusive design easily integrates into any décor.

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

Model Name	Indoor Unit			AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU	
	Outdoor Unit			AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.0 / 2.6 / 3.4	1.2 / 3.5 / 3.9	1.9 / 5.0 / 5.5	
			Btu/h	3,410 / 8,870 / 11,600	4,100 / 11,940 / 13,510	6,480 / 17,060 / 18,770	
		Heating	kW	1.0 / 3.5 / 4.2	1.1 / 4.0 / 4.6	1.5 / 5.6 / 6.5	
			Btu/h	3,410 / 11,940 / 14,330	3,750 / 13,650 / 15,700	5,120 / 19,100 / 22,180	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.23 / 0.72 / 1.20	0.25 / 1.12 / 1.50	0.25 / 1.79 / 2.20	
		Heating	kW	0.21 / 1.06 / 1.45	0.21 / 1.30 / 1.80	0.25 / 1.86 / 2.50	
	Current Input (Min/Std/Max)	Cooling	A	1.6 / 3.6 / 5.5	1.6 / 5.5 / 7.5	2.6 / 8.0 / 10.0	
		Heating	A	1.3 / 5.0 / 7.0	1.3 / 5.9 / 10.5	2.3 / 8.3 / 14.0	
	Current	MCA	A	11.0	11.0	17.5	
		MFA	A	12.5	12.5	20.6	
Efficiency	EER	Cooling	-	3.61	3.12	2.79	
	COP	Heating	-	3.30	3.07	3.01	
	SEER (Cooling Energy Grade)		-	6.4 (A++)	6.1 (A++)	5.9 (A+)	
	SCOP (Heating Energy Grade)		-	4.2 (A+)	4.1(A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.0	2.4	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
			Max.	20	20	30	
Elevation			15	15	20		
Chargeless			20	20	10		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging	kg	0.9	0.9	1.2		
		tCO ₂ e	0.61	0.61	0.81		

1. Specification

Console

Indoor Unit	Model Name		Indoor Unit	AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU
			Outdoor Unit	AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/EU
	Power Supply		Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Turbo	Turbo	Turbo
	Quantity		EA	1	1	1
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	7.5 / 6.8 / 6.0	8.5 / 7.2 / 6.2	9.4 / 8.4 / 7.4
			l/s	125 / 113 / 100	142 / 120 / 103	157 / 140 / 123
		Heating (H/M/L)	m ³ /min	8.5 / 7.2 / 6.2	9.0 / 8.2 / 7.2	11.0 / 9.7 / 8.5
l/s			142 / 120 / 103	150 / 137 / 120	183 / 162 / 142	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	35 x 1	35 x 1	35 x 1
Drain	Drain Pipe		Φ, mm	ID18mm Hose	ID18mm Hose	ID18mm Hose
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	36 / 31 / 26 / 23	38 / 34 / 30 / 24	43 / 39 / 35 / 32
	Sound Power Level		dB(A)	53	55	60
External Dimension	Net Weight		kg	16.0	16.0	16.0
	Shipping Weight		kg	20.5	20.5	21.0
	Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199	720 x 620 x 199
	Shipping Dimensions (WxHxD)		mm	805 x 705 x 297	805 x 705 x 297	805 x 705 x 297
Casing	Material		-	ABS	ABS	ABS
Control System	Infrared remote control		-	Included	Included	Included
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	-	-	-
		Internal Model	-	-	-	-
		Max. lifting Height / Displacement	mm / Liter / h	-	-	-
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
	Virus Doctor		-	Included	Included	Included

1. Specification

Console

	Model Name		Indoor Unit	AC026RNJDKG/EU	AC035RNJDKG/EU	AC052RNJDKG/EU	
			Outdoor Unit	AC026RXADKG/EU	AC035RXADKG/EU	AC052RXADKG/EU	
Outdoor Unit	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
	Compressor	Model Name			UB9AK5090FER	UB9AK5090FER	UB9TK3150FE4
		Type		-	Single BLDC	Single BLDC	Twin BLDC
		Output		kW	0.86	0.86	1.51
		Oil	Type	-	POE	POE	POE
	Initial charge		cc	320	320	500	
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate			m ³ /min	30	30
			l/s	500	500	667	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	40 x 1	40 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	48	48
			Heating	dB(A)	47	48	48
		Sound Power Level		dB(A)	59	61	62
External Dimension	Net Weight		kg	32.5	32.5	43	
	Shipping Weight		kg	35.5	35.5	46.5	
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310	
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371	1,023 x 742 x 413	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
	Operating Temp. Range	Cooling	°C	-15~46	-15~46	-15 ~ 50	
Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Console

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC026RNJDKG/EU	16.0	Max.	3.40	4.20	High	7.5	36	53
		Std.	2.60	3.50	Mid	6.8	31	
		Min.	1.00	1.00	Low	6.0	26	
AC035RNJDKG/EU	16.0	Max.	3.90	4.60	High	8.5	38	55
		Std.	3.50	4.00	Mid	7.2	34	
		Min.	1.20	1.10	Low	6.2	30	
AC052RNJDKG/EU	16.0	Max.	5.50	6.50	High	9.0	43	60
		Std.	5.00	5.60	Mid	8.0	39	
		Min.	1.90	1.50	Low	7.0	35	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
			Volts	Min.	Max.	Cooling	Heating				
AC026RNJDKG/EU	AC026RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
AC035RNJDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
AC052RNJDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6

NOTE

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

3. Capacity Table

Console

(1) AC026RNJDKG/EU+AC026RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.5	2.2	0.52	2.7	2.3	0.53	2.8	2.3	0.54	2.9	2.4	0.55	2.9	2.4	0.55	3.1	2.4	0.56	3.2	2.3	0.57
21	2.4	2.1	0.54	2.5	2.2	0.55	2.6	2.2	0.56	2.7	2.3	0.58	2.8	2.3	0.58	2.9	2.2	0.59	3.1	2.2	0.60
35	2.3	2.0	0.68	2.4	2.1	0.69	2.5	2.1	0.71	2.6	2.2	0.72	2.7	2.2	0.73	2.8	2.1	0.73	2.9	2.1	0.75
46	2.0	1.8	0.61	2.1	1.9	0.62	2.1	2.0	0.64	2.2	2.0	0.65	2.3	2.0	0.65	2.4	2.0	0.66	2.5	1.9	0.67

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
-20	2.5	1.41	2.4	1.39	2.4	1.38	2.4	1.36	2.4	1.35	2.3	1.34
-15	3.1	1.62	3.1	1.61	3.0	1.59	3.0	1.57	3.0	1.56	3.0	1.54
-5	3.5	1.51	3.5	1.50	3.4	1.48	3.4	1.47	3.4	1.45	3.3	1.44
0	3.6	1.30	3.6	1.28	3.6	1.27	3.5	1.26	3.5	1.25	3.5	1.23
7	3.6	1.08	3.5	1.07	3.5	1.06	3.5	1.05	3.4	1.04	3.4	1.03
24	4.6	1.24	4.6	1.23	4.6	1.22	4.5	1.21	4.5	1.19	4.4	1.18

NOTE

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

3. Capacity Table

Console

(2) AC035RNJDKG/EU+AC035RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.7	0.80	3.6	2.8	0.82	3.7	2.9	0.83	3.9	3.0	0.85	3.9	3.0	0.86	4.1	2.9	0.87	4.3	2.9	0.89
21	3.3	2.6	0.84	3.4	2.7	0.86	3.6	2.8	0.88	3.7	2.9	0.90	3.7	2.8	0.90	3.9	2.8	0.91	4.1	2.8	0.93
35	3.1	2.5	1.05	3.3	2.6	1.08	3.4	2.6	1.10	3.5	2.7	1.12	3.6	2.7	1.13	3.7	2.7	1.14	3.9	2.6	1.17
46	2.6	2.3	0.95	2.8	2.4	0.97	2.9	2.5	0.99	3.0	2.5	1.01	3.0	2.5	1.02	3.2	2.5	1.03	3.3	2.4	1.05

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.72	2.8	1.71	2.8	1.69	2.7	1.67	2.7	1.66	2.7	1.64
-15	3.5	1.99	3.5	1.97	3.5	1.95	3.4	1.93	3.4	1.91	3.4	1.89
-5	4.0	1.86	4.0	1.84	3.9	1.82	3.9	1.80	3.8	1.78	3.8	1.77
0	4.2	1.59	4.1	1.58	4.1	1.56	4.0	1.54	4.0	1.53	4.0	1.51
7	4.1	1.33	4.0	1.31	4.0	1.30	4.0	1.29	3.9	1.27	3.9	1.26
24	5.3	1.53	5.3	1.51	5.2	1.50	5.1	1.48	5.1	1.47	5.0	1.45

NOTE

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

3. Capacity Table

Console

(3) AC052RNJDKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.4	1.28	5.1	3.5	1.31	5.3	3.6	1.33	5.5	3.7	1.36	5.6	3.7	1.37	5.9	3.7	1.39	6.2	3.6	1.42
21	4.6	3.3	1.35	4.9	3.4	1.38	5.1	3.5	1.40	5.3	3.6	1.43	5.4	3.5	1.45	5.6	3.5	1.46	5.9	3.4	1.49
35	4.4	3.1	1.68	4.7	3.2	1.72	4.9	3.3	1.75	5.0	3.4	1.79	5.1	3.4	1.81	5.4	3.3	1.83	5.6	3.3	1.86
46	3.8	2.9	1.52	4.0	3.0	1.55	4.1	3.1	1.58	4.3	3.2	1.61	4.3	3.2	1.63	4.6	3.1	1.64	4.8	3.1	1.68
50	2.9	2.3	1.35	3.0	2.4	1.38	3.2	2.5	1.40	3.3	2.5	1.43	3.3	2.5	1.45	3.5	2.5	1.46	3.7	2.4	1.49

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
-20	3.9	2.47	3.9	2.44	3.9	2.42	3.8	2.39	3.8	2.37	3.7	2.35
-15	5.0	2.85	4.9	2.82	4.9	2.79	4.8	2.76	4.8	2.73	4.7	2.71
-5	5.6	2.66	5.5	2.63	5.5	2.60	5.4	2.58	5.4	2.55	5.3	2.53
0	5.8	2.28	5.8	2.25	5.7	2.23	5.7	2.21	5.6	2.19	5.5	2.17
7	5.7	1.90	5.7	1.88	5.6	1.86	5.5	1.84	5.5	1.82	5.4	1.80
24	7.4	2.18	7.4	2.16	7.3	2.14	7.2	2.12	7.1	2.10	7.1	2.08

NOTE

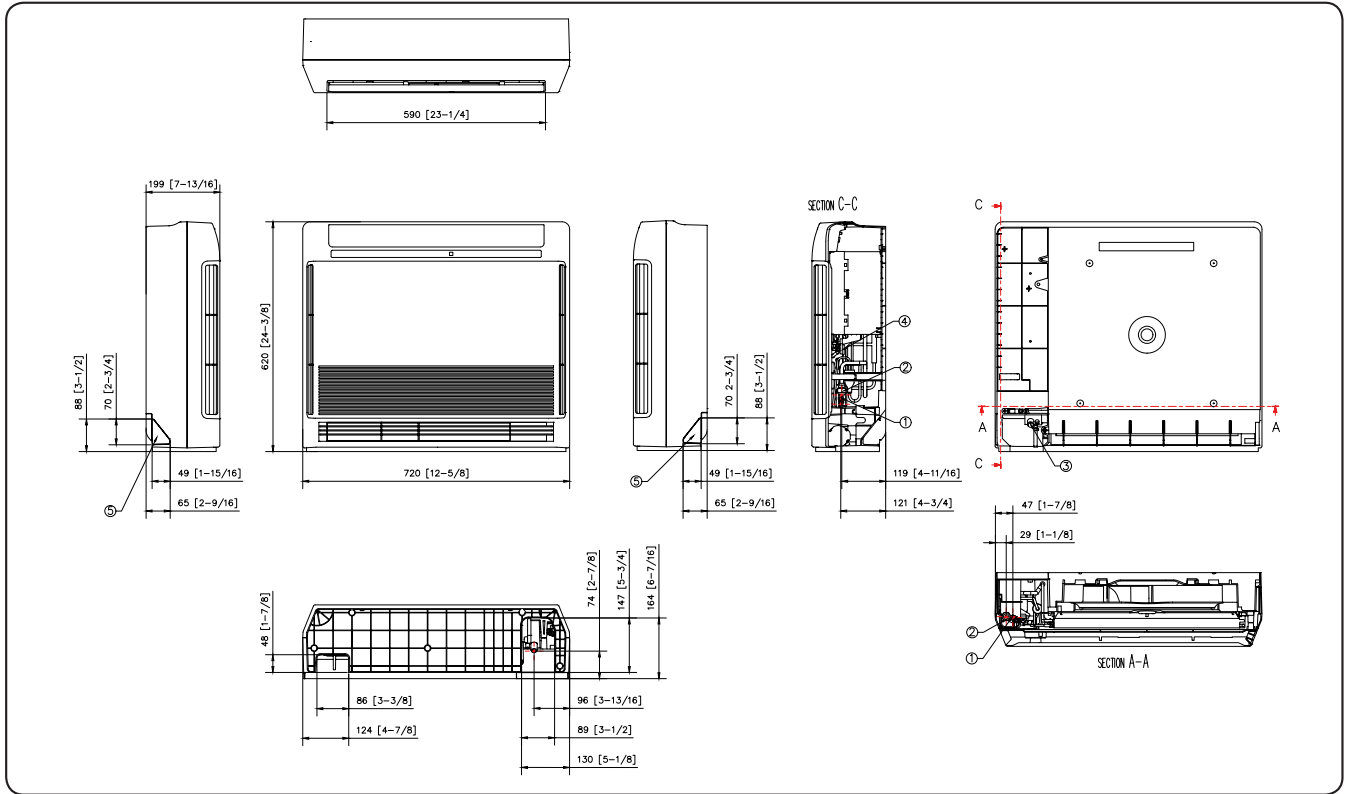
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Console

AC026/035/052RNJDKG/EU

Units : mm [inches]



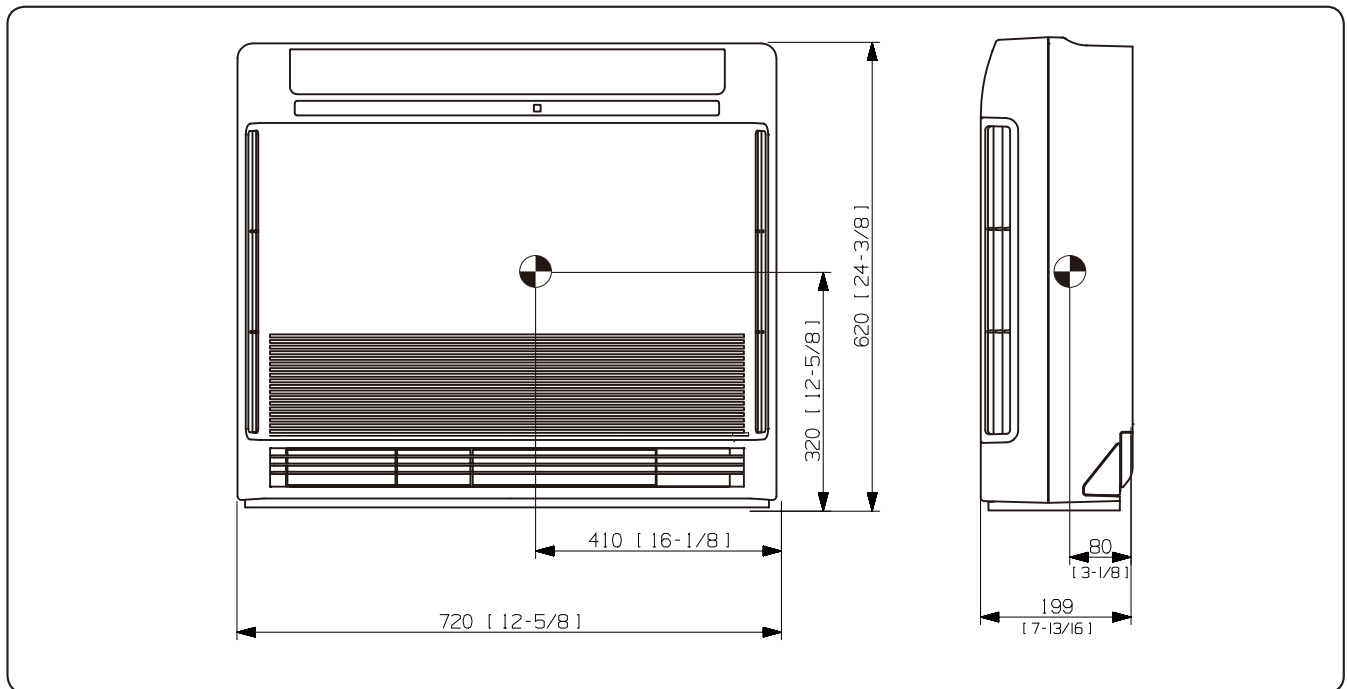
No.	Name	Description	
		AC026RNJDKG/EU AC035RNJDKG/EU	AC052RNJDKG/EU
1	Liquid pipe connection	Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Power supply & Communication wiring conduit		
6	Knockout hole for drain hose		

5. Center of Gravity

Console

AC026/035/052RNJDKG/EU

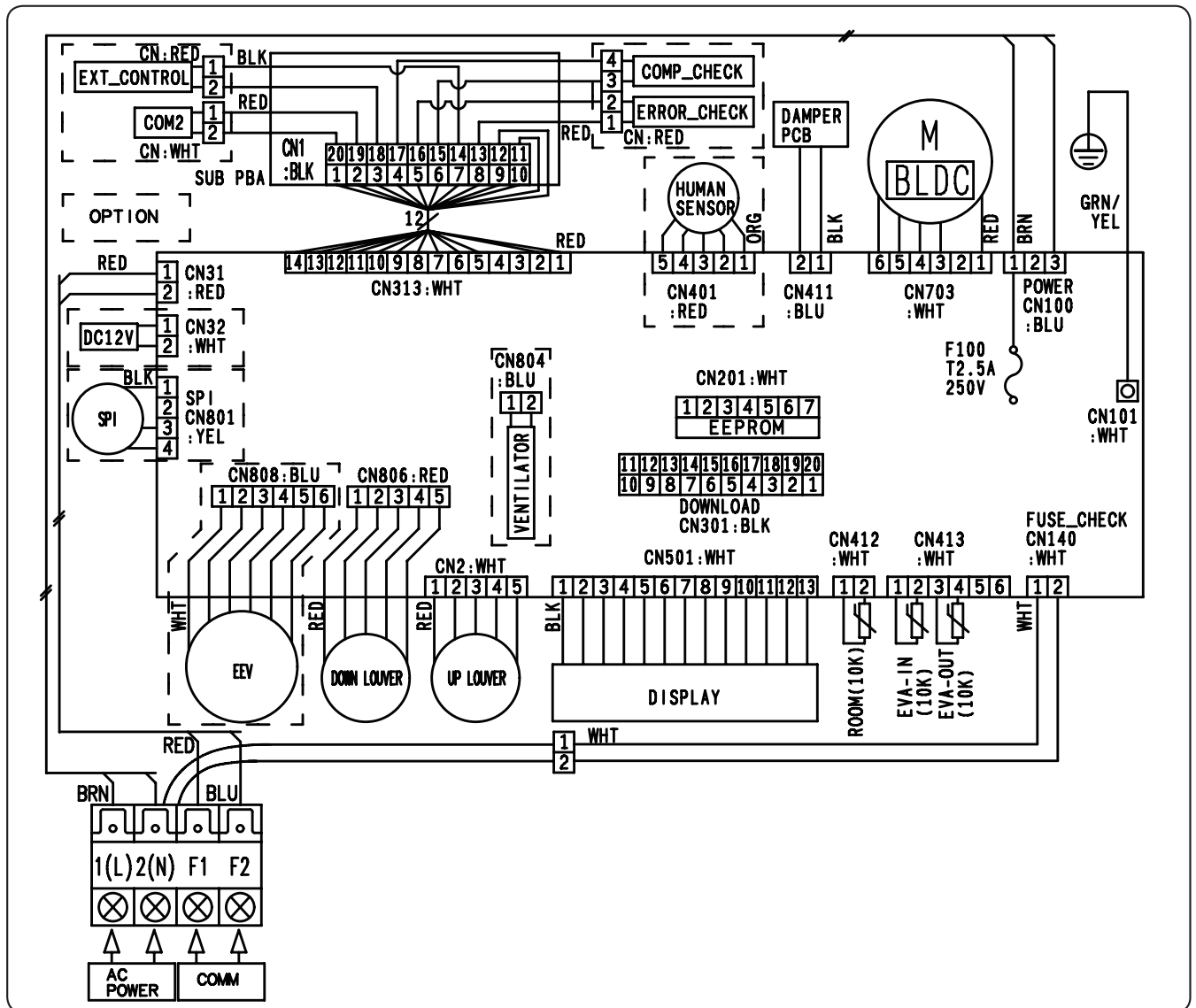
Units : mm [inches]



6. Electrical Wiring Diagram

Console

AC026/035/052RNJDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

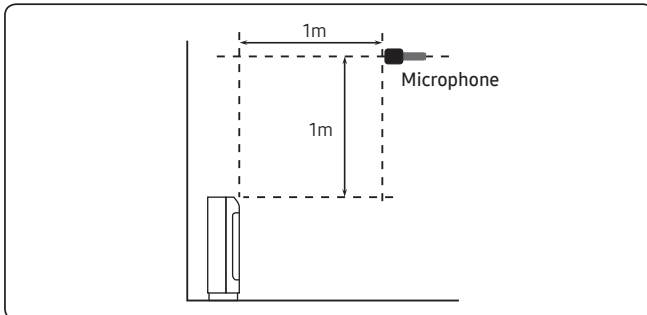
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow : blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Console

Sound Pressure level

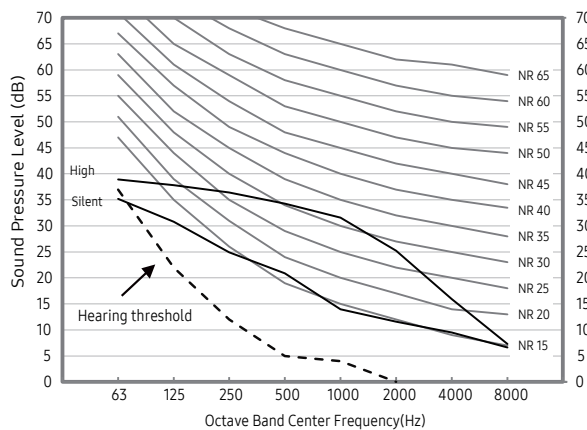
Unit: dB(A)



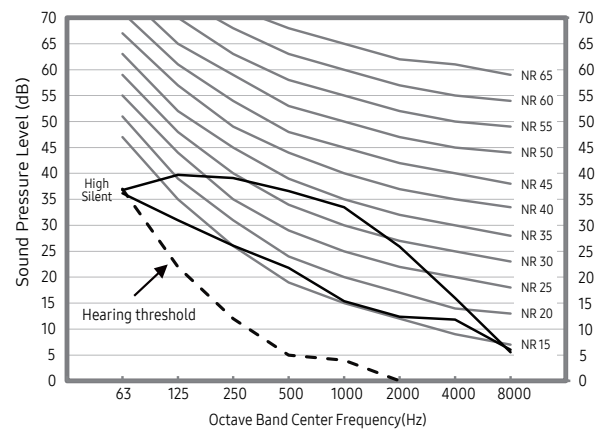
Model	HIGH	MID	LOW	Silent
AC026RNJDKG/EU	36	32	26	23
AC035RNJDKG/EU	38	34	30	24
AC052RNJDKG/EU	43	39	35	32

- NR Curve

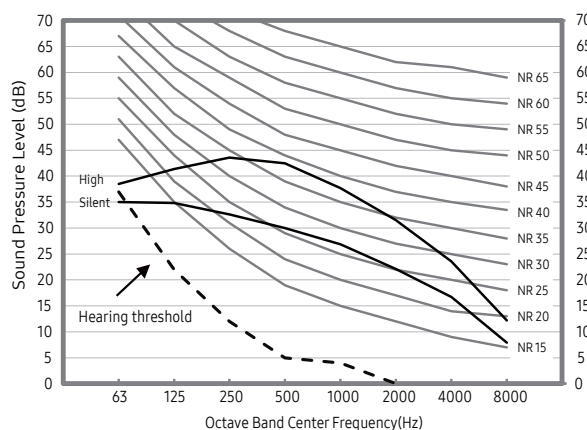
1) AC026RNJDKG/EU



2) AC035RNJDKG/EU



3) AC052RNJDKG/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

Unit: dB(A)

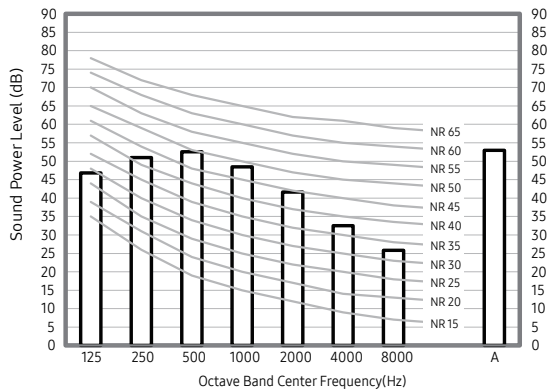
NOTE

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

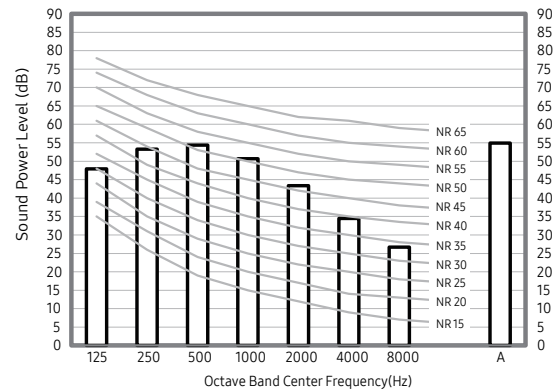
Model	Power
AC026RNJDKG/EU	53
AC035RNJDKG/EU	55
AC052RNJDKG/EU	60

NR Curve

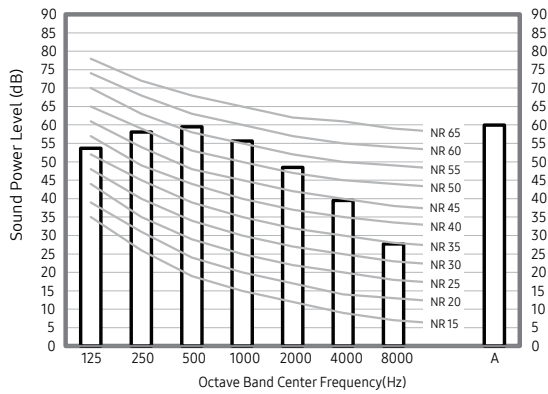
1) AC026RNJDKG/EU



2) AC035RNJDKG/EU



3) AC052RNJDKG/EU

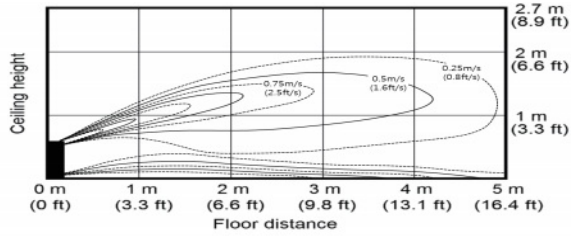


8. Temperature and air flow distribution

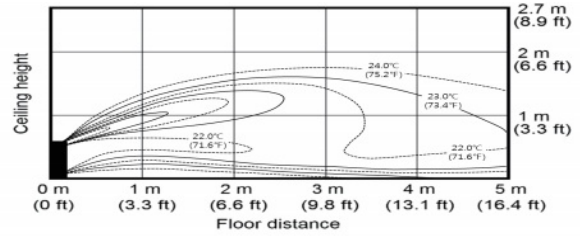
Console

AC026RNJDKG/EU

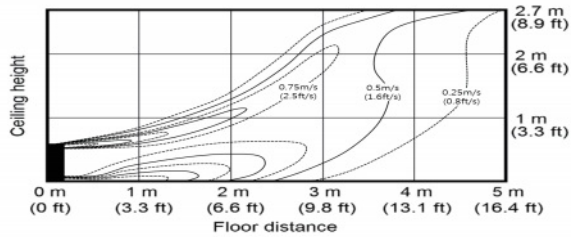
- Cooling Air Velocity distribution
(Discharge angle : 40 degree)



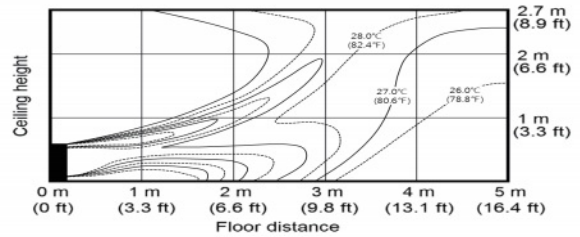
- Cooling temperature distribution
(Discharge angle : 40 degree)



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

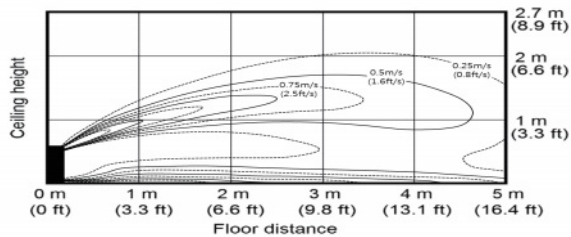


- Heating temperature distribution
(Discharge angle : 40 degree)

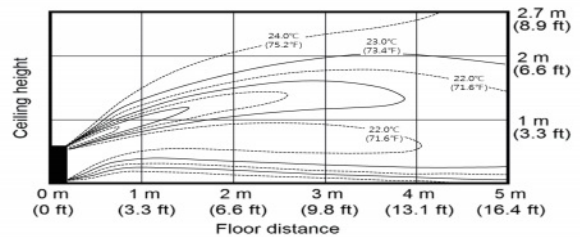


AC035RNJDKG/EU

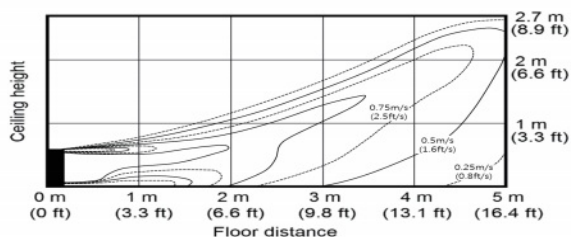
- Cooling Air Velocity distribution
(Discharge angle : 40 degree)



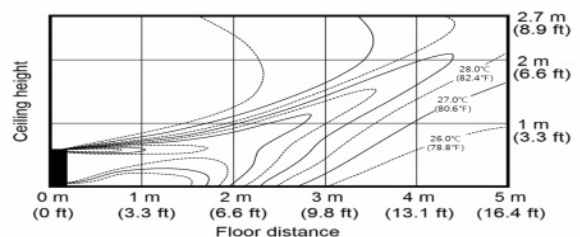
- Cooling temperature distribution
(Discharge angle : 40 degree)



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



- Heating temperature distribution
(Discharge angle : 40 degree)



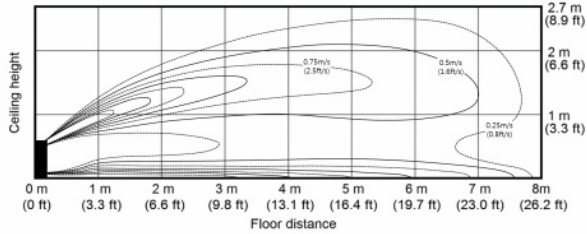
8. Temperature and air flow distribution

Console

AC052RNJDKG/EU

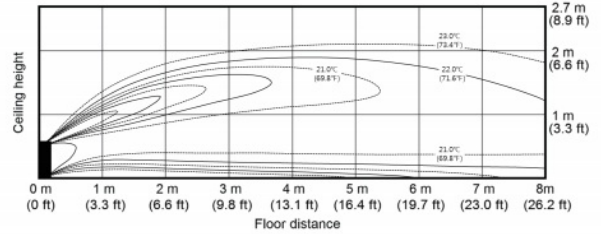
- Cooling Air Velocity distribution

(Discharge angle : 40 degree)



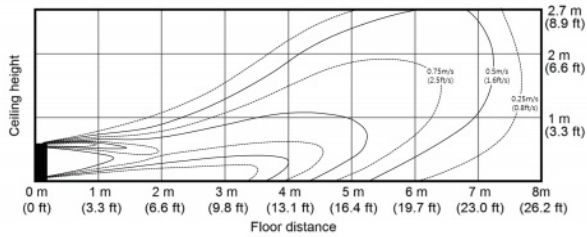
- Cooling temperature distribution

(Discharge angle : 40 degree)



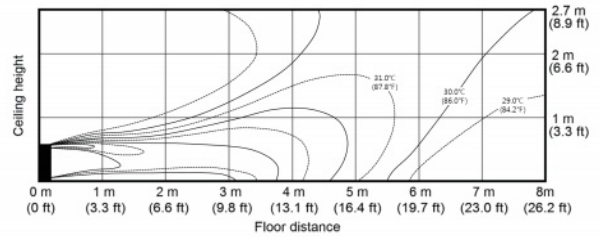
- Heating Air Velocity distribution

(Discharge angle : 40 degree)



- Heating temperature distribution

(Discharge angle : 40 degree)



Ceiling

1. Specification	235
2. Summary Table	238
3. Capacity Table	239
4. Dimensional Drawing	241
5. Center of Gravity	242
6. Electrical Wiring Diagram	243
7. Sound Data	244
8. Temperature and air flow distribution	246

Features & Benefits

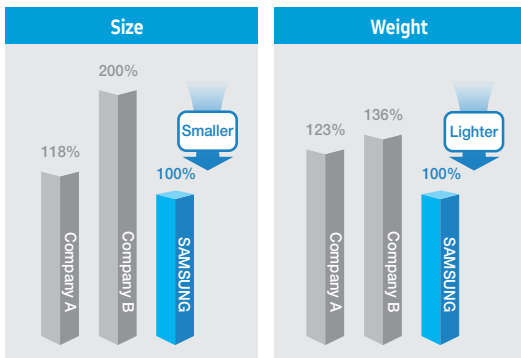
Ceiling Type - Slim yet functional design

Distribute refreshing airflow in the ceiling with a compact, flexible design

Samsung's Ceiling Type indoor unit can be installed in the ceiling, enabling more efficient use of available space. Users can enjoy crisp, powerful air throughout their entire space from the compact unit in the ceiling.

Small package, big performance

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



7.1kW Model

1. Specification

Ceiling

Model Name	Indoor Unit			AC052RNCDKG/EU	AC071RNCDKG/EU
	Outdoor Unit			AC052RXADKG/EU	AC071RXADKG/EU
Mode				-	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	1.20 / 5.00 / 6.50	1.50 / 7.10 / 8.70
			Btu/h	4,100 / 17,060 / 22,180	5,120 / 24,230 / 29,690
		Heating	kW	1.70 / 6.00 / 7.70	1.90 / 8.00 / 9.00
			Btu/h	5,800 / 20,470 / 26,270	6,480 / 27,300 / 30,710
Power	Power Input (Min/Std/Max)	Cooling	kW	0.48 / 1.58 / 1.90	0.35 / 2.87 / 3.60
		Heating	kW	0.43 / 1.92 / 3.05	0.35 / 3.05 / 3.95
	Current Input (Min/Std/Max)	Cooling	A	2.8 / 7.2 / 9.0	2.0 / 12.4 / 16.0
		Heating	A	2.4 / 8.5 / 14.5	2.0 / 13.2 / 17.0
	Current	MCA	A	17.5	17.5
		MFA	A	20.6	20.6
Efficiency	EER	Cooling	-	3.16	2.47
	COP	Heating	-	3.13	2.62
	SEER (Cooling Energy Grade)		-	6.4 (A++)	5.6 (A+)
	SCOP (Heating Energy Grade)		-	3.9 (A)	3.9 (A)
	Pdesignh		kW	2.4	3.5
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection
		Φ, mm (inch)		6.35 (1/4)	6.35 (1/4)
	Gas Pipe	Type		Flare connection	Flare connection
		Φ, mm (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	30	50
Elevation		m	20	30	
Chargeless		m	10	15	
Wiring connections	Communication	Min.	mm ²	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Factory Charging	kg	1.2	1.7	
		tCO ₂ e	0.81	1.15	

1. Specification

Ceiling

Model Name	Indoor Unit		AC052RNCDKG/EU	AC071RNCDKG/EU	
	Outdoor Unit		AC052RXADKG/EU	AC071RXADKG/EU	
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		-	Sirroco	
	Quantity		EA	2	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	12.6 / 11.3 / 10.0	15.2 / 14.1 / 13.1
			l/s	210 / 188.3 / 166.6	253.3 / 235 / 218.3
		Heating (H/M/L)	m ³ /min	12.6 / 11.3 / 10.0	15.2 / 14.1 / 13.1
l/s			210 / 188.3 / 166.6	253.3 / 235 / 218.3	
Fan Motor	Type		-	BLDC	
	Output		W x n	40	
Drain	Drain Pipe		Φ, mm	ID18mm Hose	
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	41 / 39 / 36	
	Sound Power Level		dB(A)	60	
External Dimension	Net Weight		kg	20.0	
	Shipping Weight		kg	25.0	
	Net Dimensions (WxHxD)		mm	1,000 x 200 x 650	
	Shipping Dimensions (WxHxD)		mm	1,074 x 294 x 726	
Casing	Material		-	ABS	
Control System	Infrared remote control		-	AR-EH03E (Included)	
	Wired remote control		-	MWR-WE13N MWR-WG00*N	
Drain Pump	Drain Pump		-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	
Additional Accessories	Drain Pump	External Model	-	-	
		Internal Model	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-
	Air Filter		-	Removable / Washable	Removable / Washable
Virus Doctor		-	-	-	

1. Specification

Ceiling

	Model Name		Indoor Unit	AC052RNCDKG/EU	AC071RNCDKG/EU	
			Outdoor Unit	AC052RXADKG/EU	AC071RXADKG/EU	
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		-	Anti-Corrosion	Anti-Corrosion	
	Compressor	Model Name		-	UB9TK3150FE4	UB4TN8200FE4
		Type		-	Twin BLDC	Twin BLDC
		Output		kW	1.51	1.89
		Oil	Type	-	POE	POE
	Initial charge		cc	600	650	
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate			m ³ /min	40
			l/s	667	850	
	Fan Motor	Type		-	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	48	49
			Heating	dB(A)	48	51
		Sound Power Level		dB(A)	62	65
External Dimension	Net Weight		kg	43.0	51.0	
	Shipping Weight		kg	46.5	55.0	
	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 Plate	EGI Steel Plate	
	Operating Temp. Range	Cooling	°C	-15 ~ 50	-15 ~ 50	
Heating		°C	-20 ~ 24	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Ceiling

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (kW)	Heating (kW)				
AC052RNCDKG/EU	20.0	Max.	6.50	7.70	High	12.6	41	60
		Std.	5.00	6.00	Mid	11.3	39	
		Min.	1.20	1.70	Low	10.0	36	
AC071RNCDKG/EU	20.0	Max.	8.70	9.00	High	15.2	46	64
		Std.	7.10	8.00	Mid	14.1	44	
		Min.	1.50	1.90	Low	13.1	42	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
			Volts	Min.	Max.	Cooling	Heating				
AC052RNCDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
AC071RNCDKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6

NOTE

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

3. Capacity Table

Ceiling

(1) AC052RNCDKG/EU+AC052RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.6	1.13	5.1	3.7	1.15	5.3	3.8	1.18	5.5	4.0	1.20	5.6	3.9	1.21	5.9	3.9	1.22	6.2	3.8	1.25
21	4.6	3.4	1.19	4.9	3.6	1.21	5.1	3.7	1.24	5.3	3.8	1.26	5.4	3.7	1.28	5.6	3.7	1.29	5.9	3.6	1.32
35	4.4	3.3	1.49	4.7	3.4	1.52	4.9	3.5	1.55	5.0	3.6	1.58	5.1	3.6	1.60	5.4	3.5	1.61	5.6	3.5	1.64
46	3.8	3.1	1.34	4.0	3.2	1.37	4.1	3.3	1.39	4.3	3.4	1.42	4.3	3.3	1.44	4.6	3.3	1.45	4.8	3.2	1.48
50	2.9	2.4	1.19	3.0	2.5	1.21	3.2	2.6	1.24	3.3	2.7	1.26	3.3	2.6	1.28	3.5	2.6	1.29	3.7	2.6	1.32

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
-20	4.2	2.55	4.2	2.52	4.1	2.50	4.1	2.47	4.1	2.45	4.0	2.42
-15	5.3	2.94	5.3	2.91	5.2	2.88	5.2	2.85	5.1	2.82	5.1	2.79
-5	6.0	2.74	5.9	2.71	5.9	2.69	5.8	2.66	5.8	2.63	5.7	2.61
0	6.2	2.35	6.2	2.33	6.1	2.30	6.1	2.28	6.0	2.26	5.9	2.24
7	6.1	1.96	6.1	1.94	6.0	1.92	5.9	1.90	5.9	1.88	5.8	1.86
24	8.0	2.25	7.9	2.23	7.8	2.21	7.7	2.19	7.6	2.16	7.6	2.14

NOTE

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

3. Capacity Table

Ceiling

(2) AC071RNCDKG/EU+AC071RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.9	4.9	2.05	7.3	5.1	2.09	7.6	5.2	2.14	7.8	5.4	2.18	8.0	5.3	2.20	8.4	5.3	2.22	8.8	5.2	2.27
21	6.6	4.7	2.16	6.9	4.8	2.21	7.2	5.0	2.25	7.5	5.1	2.30	7.6	5.1	2.32	8.0	5.0	2.34	8.4	4.9	2.39
35	6.3	4.5	2.70	6.6	4.6	2.76	6.9	4.8	2.81	7.1	4.9	2.87	7.2	4.9	2.90	7.6	4.8	2.93	8.0	4.7	2.99
46	5.3	4.4	2.43	5.6	4.5	2.48	5.9	4.6	2.53	6.0	4.8	2.58	6.2	4.7	2.61	6.5	4.7	2.63	6.8	4.6	2.69
50	4.1	3.5	2.16	4.3	3.6	2.21	4.5	3.7	2.25	4.6	3.8	2.30	4.7	3.8	2.32	4.9	3.8	2.34	5.2	3.7	2.39

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	4.04	5.6	4.00	5.5	3.97	5.5	3.93	5.4	3.89	5.4	3.85
-15	7.1	4.67	7.0	4.62	7.0	4.58	6.9	4.53	6.8	4.48	6.8	4.44
-5	8.0	4.36	7.9	4.31	7.8	4.27	7.8	4.23	7.7	4.19	7.6	4.14
0	8.3	3.73	8.2	3.70	8.2	3.66	8.1	3.62	8.0	3.59	7.9	3.55
7	8.2	3.11	8.1	3.08	8.0	3.05	7.9	3.02	7.8	2.99	7.8	2.96
24	10.6	3.58	10.5	3.54	10.4	3.51	10.3	3.47	10.2	3.44	10.1	3.40

NOTE

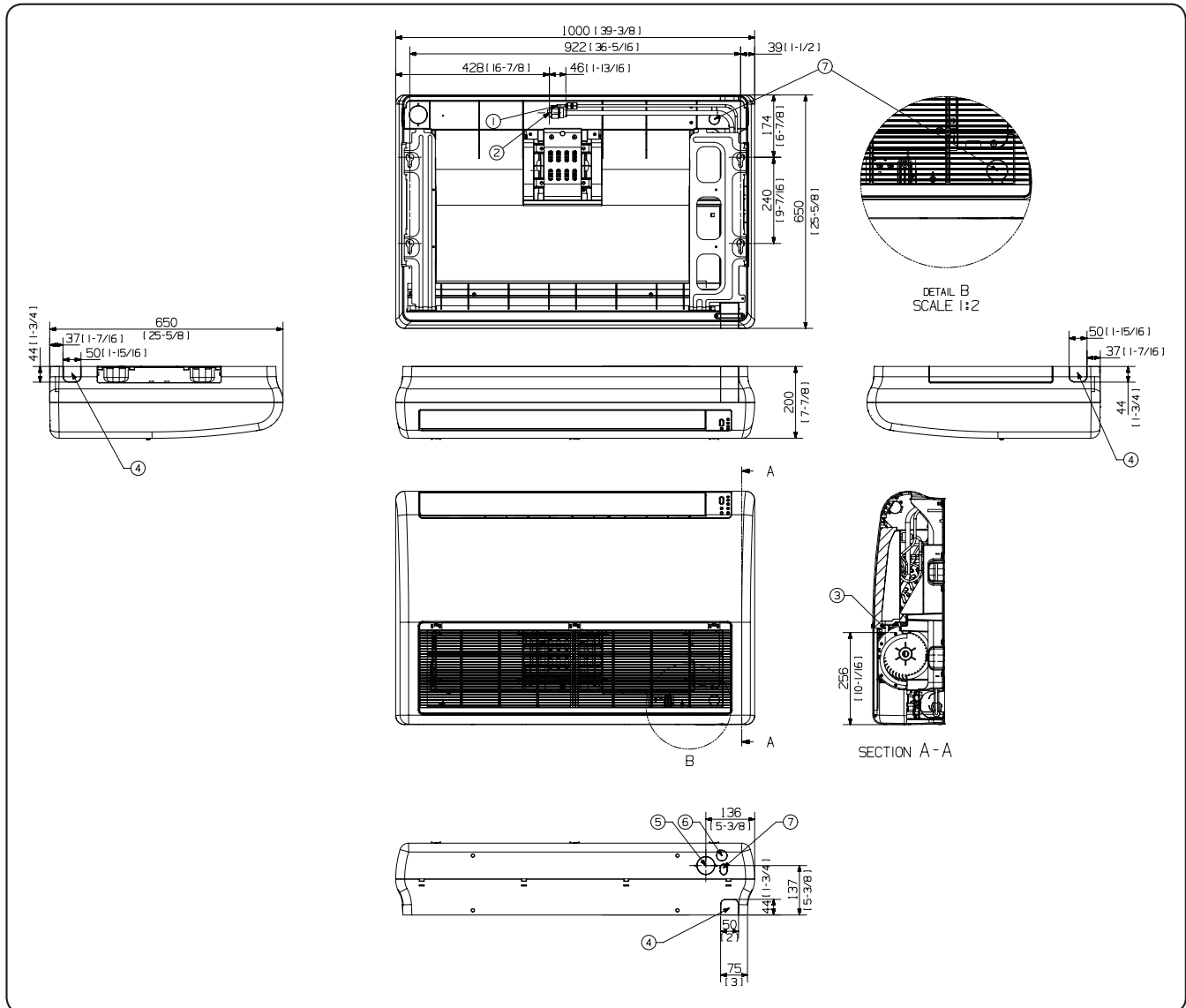
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Ceiling

AC052/071RNCDKG/EU

Units : mm [inches]



No.	Name	Description	
		AC052RNCDKG/EU	AC071RNCDKG/EU
1	Liquid pipe connection		Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection	ID18mm [11/16inch] Hose	
4	Knockout hole for piping		
6	Knockout hole for Fresh air intake	Φ50 [2]	
7	Knockout hole for drain hose		
8	Knockout hole for wiring		

NOTE

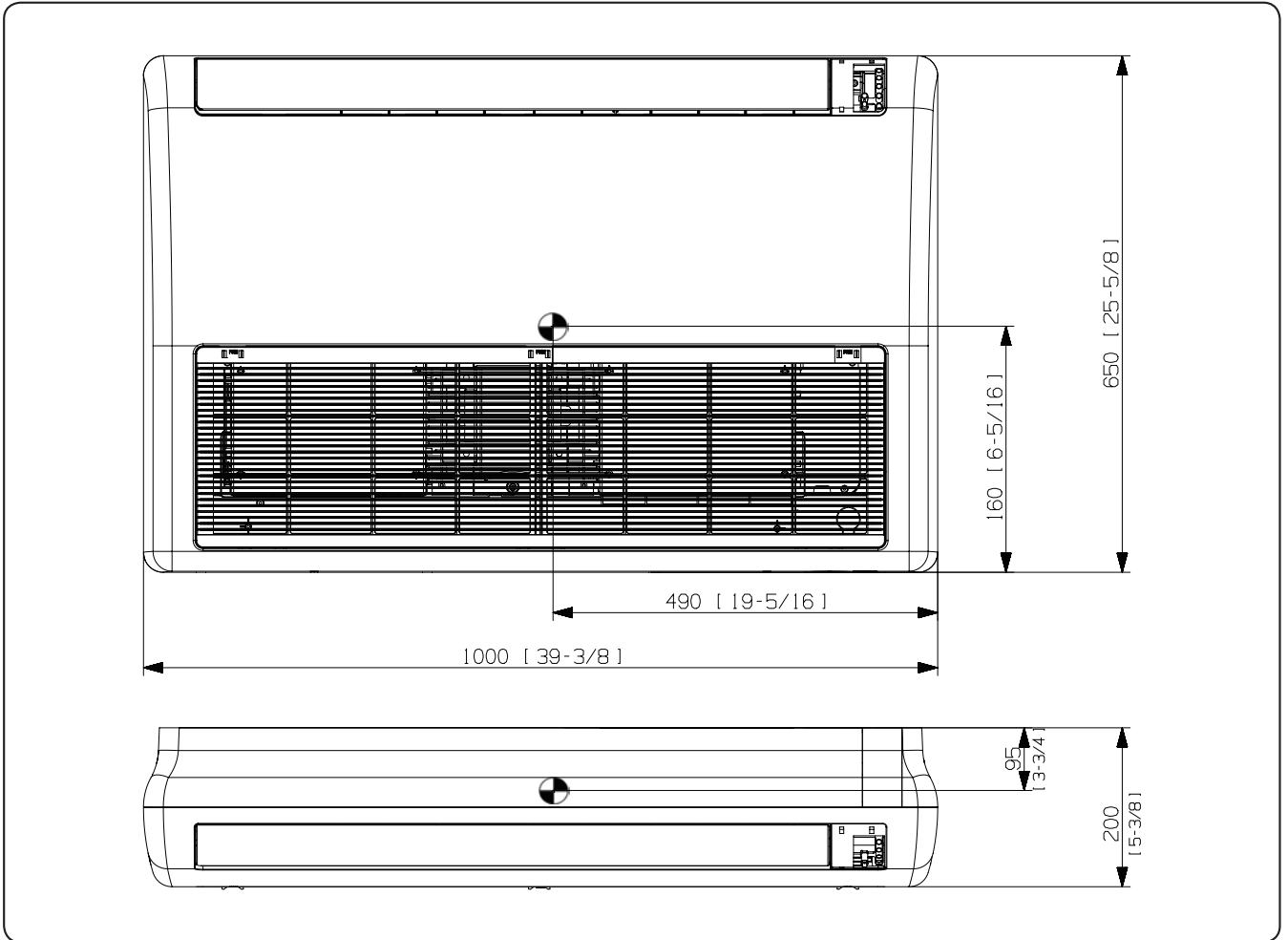
- As for suspension bolt, please use M8 ~ M10.
(Procured at local site)

5. Center of Gravity

Ceiling

AC052/071RNCDKG/EU

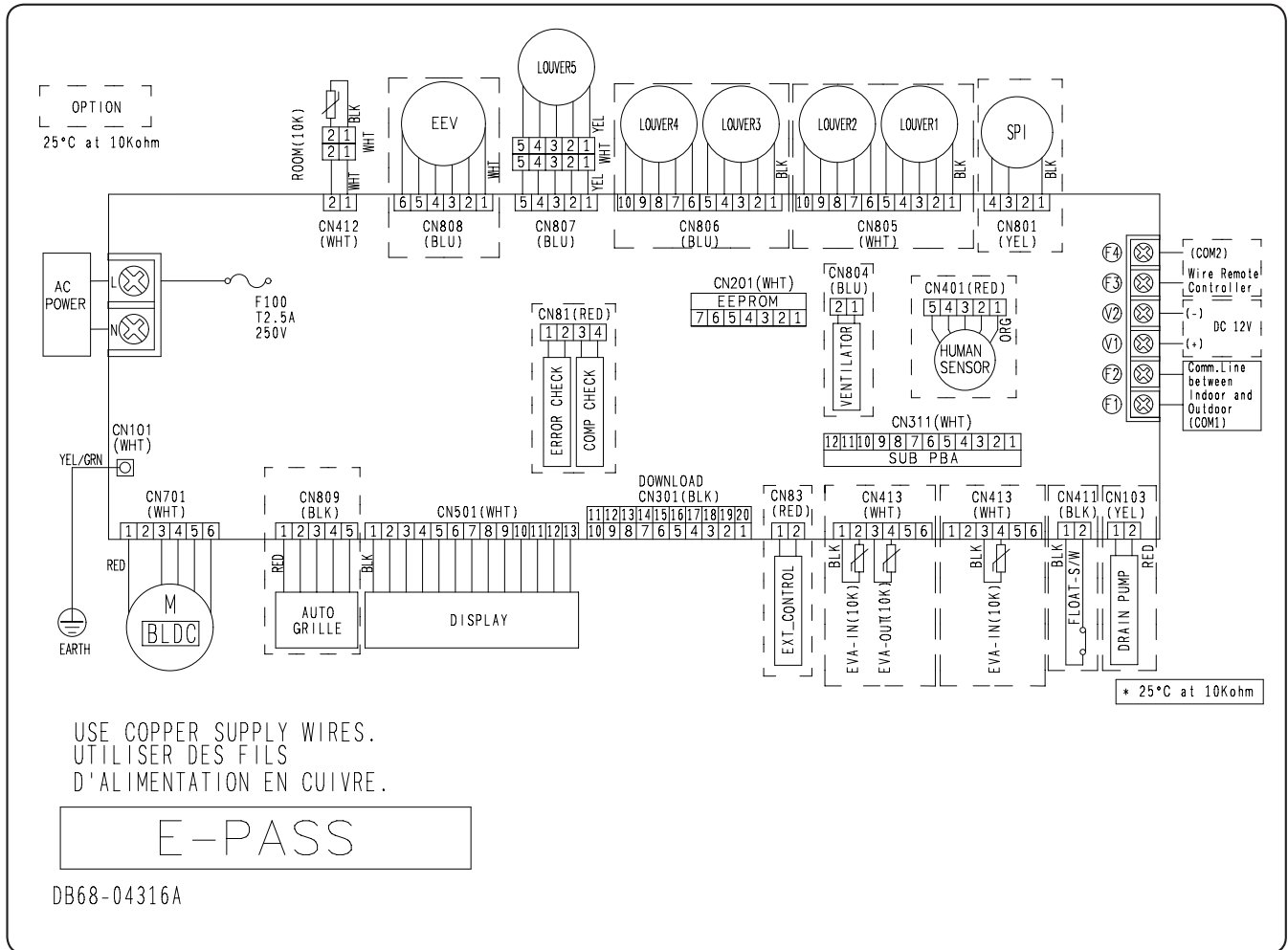
Units : mm [inches]



6. Electrical Wiring Diagram

Ceiling

AC052/071RNCDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
FLOAT S/W	Switch of the float of Drain	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

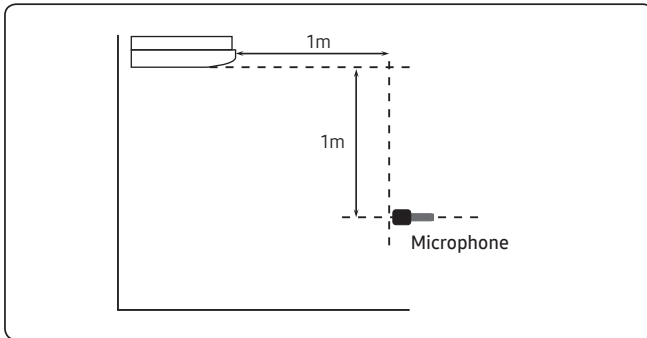
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Ceiling

Sound Pressure level

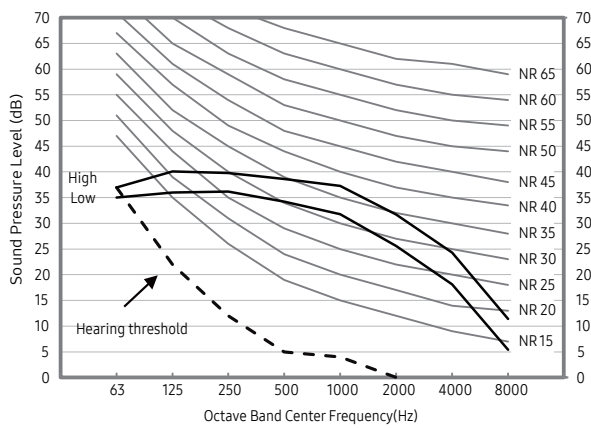
Unit: dB(A)



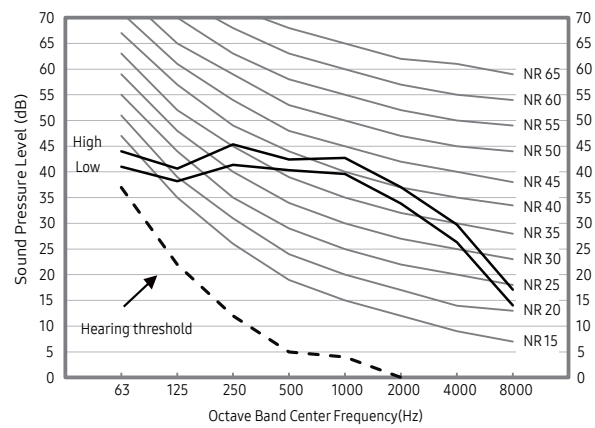
Model	HIGH	MID	LOW
AC052RNCDKG/EU	41	39	36
AC071RNCDKG/EU	46	44	42

- NR Curve

1) AC052RNCDKG/EU



2) AC071RNCDKG/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

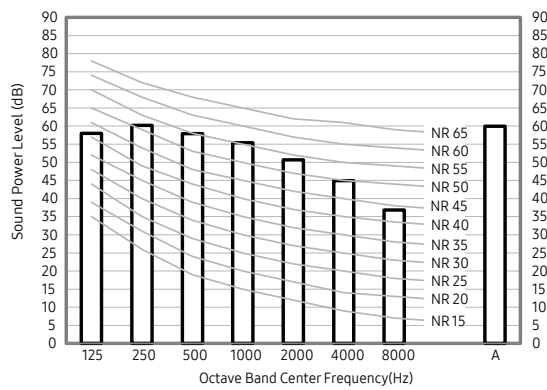
Unit: dB(A)

- 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.

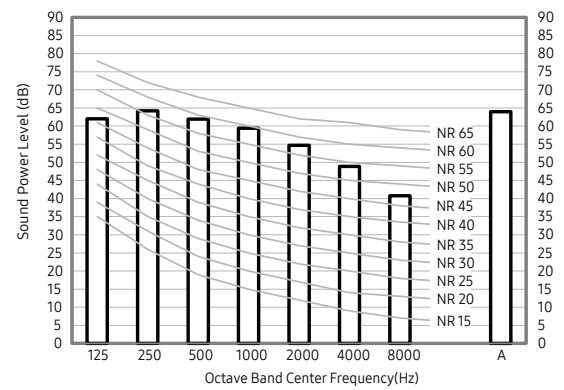
Model	Power
AC052RNCDKG/EU	41
AC071RNCDKG/EU	46

• NR Curve

1) AC052RNCDKG/EU



2) AC071RNCDKG/EU

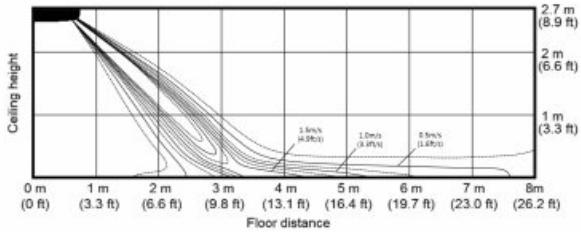


8. Temperature and air flow distribution

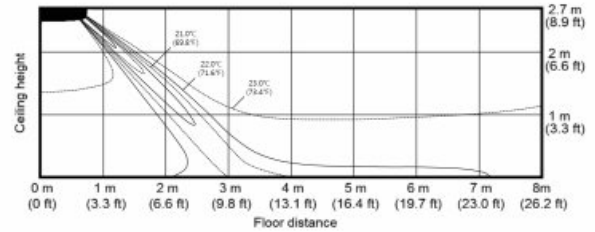
Ceiling (Ceiling Installation)

AC052RNCDKG/EU

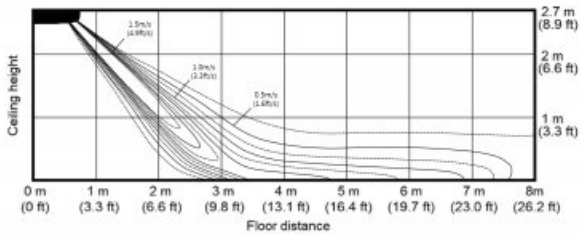
- Cooling Air Velocity distribution
(Discharge angle : 50 degree)



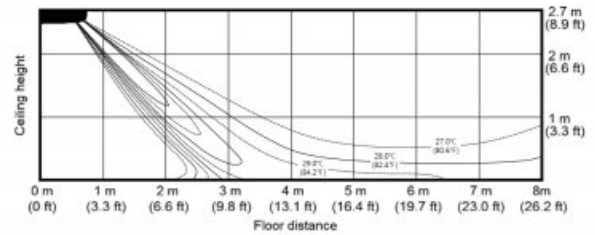
- Cooling temperature distribution
(Discharge angle : 50 degree)



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

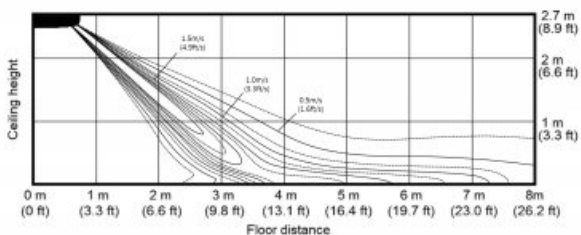


- Heating temperature distribution
(Discharge angle : 40 degree)

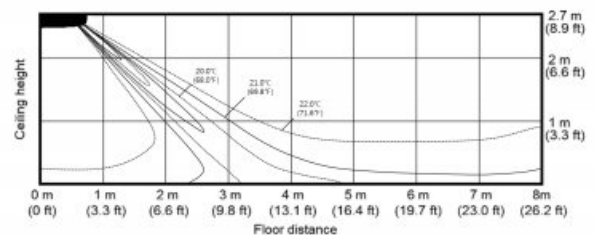


AC071RNCDKG/EU

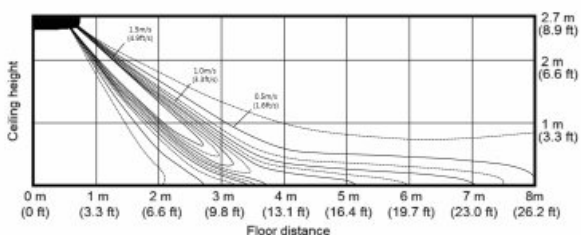
- Cooling Air Velocity distribution
(Discharge angle : 50 degree)



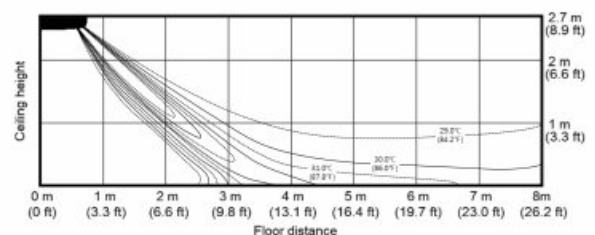
- Cooling temperature distribution
(Discharge angle : 50 degree)



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



- Heating temperature distribution
(Discharge angle : 40 degree)



Big Ceiling

1. Specification	249
2. Summary Table	255
3. Capacity Table	256
4. Dimensional Drawing	262
5. Center of Gravity	263
6. Electrical Wiring Diagram	264
7. Sound Data	265
8. Temperature and air flow distribution	267

Features & Benefits

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

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

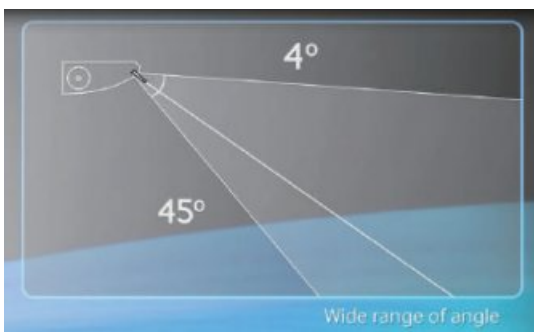
Samsung has been rewriting product descriptions beyond the industry standards. As one of such company's product, Samsung Ceiling focused on sending "sufficient" amount of conditioned air to "distant" places to cover huge area. For convenient installations and maintenances, the Ceiling concentrated service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



Fast cooling, 15m air flow

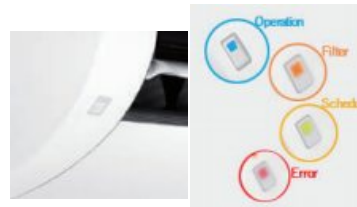
When users need air conditioning, they really need it quickly. While the ceiling applied latest flow-efficient blowers to increase amount of air it discharges, it also mounted single BLDC motor to reduce noises and possibilities of abrupt changes of modes. With increased size of inlet area and fluid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

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



Simple display

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



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

Single side installation

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

1. Specification

Big Ceiling

Model Name	Indoor Unit			AC100RNCDKG/EU	AC100RNCDKG/EU	AC120RNCDKG/EU	
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	3.0 / 12.0 / 13.5	
			Btu/h	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	10,240 / 41,000 / 46,100	
		Heating	kW	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	3.8 / 13.2 / 16.5	
			Btu/h	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	12,970 / 45,040 / 56,300	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.60 / 3.28 / 4.70	0.60 / 3.15 / 4.70	0.90 / 4.35 / 5.30	
		Heating	kW	0.46 / 3.25 / 5.40	0.46 / 3.20 / 5.40	0.70 / 3.83 / 5.60	
	Current Input (Min/Std/Max)	Cooling	A	3.0 / 14.6 / 20.4	1.5 / 5.0 / 7.1	5.1 / 19.1 / 24.0	
		Heating	A	2.5 / 14.2 / 23.0	1.2 / 5.1 / 8.4	3.9 / 17.0 / 26.0	
	Current	MCA	A	26.5	18.6	26.5	
		MFA	A	30.0	18.6	30.0	
Efficiency	EER	Cooling	-	3.05	3.17	2.76	
	COP	Heating	-	3.44	3.50	3.44	
	SEER (Cooling Energy Grade)		-	6.1 (A++)	6.1 (A++)	5.9 (A+)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	4.0 (A+)	
	Pdesignh		kW	5.2	5.2	6.5	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
			Max.	m	50	50	50
Elevation			m	30	30	30	
Chargeless			m	30	30	30	
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging		kg	2.7	2.7	2.7	
			tCO ₂ e	1.82	1.82	1.82	

1. Specification

Big Ceiling

Model Name	Indoor Unit		AC100RNCDKG/EU	AC100RNCDKG/EU	AC120RNCDKG/EU	
	Outdoor Unit		AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	Sirocco
	Quantity		EA	4	4	4
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	26.0 / 23.0 / 19.0	26.0 / 23.0 / 19.0	30.0 / 24.0 / 20.0
			l/s	433 / 383 / 317	433 / 383 / 317	500 / 400 / 333
		Heating (H/M/L)	m ³ /min	26.0 / 23.0 / 19.0	26.0 / 23.0 / 19.0	32.0 / 26.0 / 22.0
l/s			433 / 383 / 317	433 / 383 / 317	533 / 433 / 367	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	244 x 1	244 x 1	244 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	42 / 38 / 34	42 / 38 / 34	44 / 41 / 37
	Sound Power Level		dB(A)	60	60	62
External Dimension	Net Weight		kg	42.0	42.0	41.5
	Shipping Weight		kg	48.0	48.0	48.0
	Net Dimensions (WxHxD)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675
	Shipping Dimensions (WxHxD)		mm	1,739 x 321 x 758	1,739 x 321 x 758	1,739 x 321 x 758
Casing	Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	-	-	-
		Internal Model	-	-	-	-
	Max. lifting Height / Displacement	mm / Liter / h	-	-	-	-
		Air Filter		-	Removable / Washable	Removable / Washable
Virus Doctor		-	Option	Option	Option	

1. Specification

Big Ceiling

Model Name	Indoor Unit			AC100RNCDKG/EU	AC100RNCDKG/EU	AC120RNCDKG/EU		
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU		
Power Supply		Ø, #, V, Hz		1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50		
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube		
	Material	Fin	-	Al	Al	Al		
		Tube	-	Cu	Cu	Cu		
Fin Treatment		-		Anti-Corrosion	Anti-Corrosion	Anti-Corrosion		
Compressor	Model Name		-		UB8TN8300FJU	UB8TN8300FJU	UB5TN5450FJX	
	Type		-		Twin BLDC	Twin BLDC	Twin BLDC	
	Output		kW		2.91	2.91	4.25	
	Oil	Type	-		POE	POE	POE	
Initial charge		cc		1,200	1,200	1,700		
Fan	Type		-		Propeller	Propeller	Propeller	
	Discharge direction		-		Front	Front	Front	
	Quantity		EA		1	1	1	
	Air Flow Rate		m ³ /min		72	72	72	
l/s			1,200	1,200	1,200			
Fan Motor	Type		-		BLDC Motor	BLDC Motor	BLDC Motor	
	Output		W x n		125 x 1	125 x 1	125 x 1	
Sound	Sound Pressure Level	Cooling	dB(A)		52	52	54	
		Heating	dB(A)		54	54	56	
	Sound Power Level		dB(A)		69	69	70	
External Dimension	Net Weight		kg		75.0	74.0	81.0	
	Shipping Weight		kg		80.0	79.0	86.0	
	Net Dimensions (WxHxD)		mm		940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	
	Shipping Dimensions (WxHxD)		mm		995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,096 x 426	
Casing	Material	Body		-		EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C		-15 ~ 50	-15 ~ 50	-15 ~ 50	
		Heating		°C		-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

Big Ceiling

System	Model Name		Indoor Unit	AC120RNCDKG/EU	AC140RNCDKG/EU	AC140RNCDKG/EU		
			Outdoor Unit	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU		
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5	
				Btu/h	10,240 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900	
			Heating	kW	3.8 / 13.2 / 16.5	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0	
				Btu/h	12,970 / 45,040 / 56,300	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420	
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.15 / 5.50	0.80 / 4.50 / 6.45	0.80 / 4.50 / 6.60	
			Heating	kW	0.70 / 3.80 / 6.40	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.50	
		Current Input (Min/Std/Max)	Cooling	A	1.7 / 6.6 / 10.0	3.7 / 19.7 / 28.0	2.1 / 7.0 / 10.5	
			Heating	A	1.5 / 6.2 / 12.0	3.5 / 19.8 / 32.0	1.9 / 7.0 / 12.0	
		Current	MCA	A	18.6	34.5	18.6	
			MFA	A	18.6	40.0	18.6	
	Efficiency	EER	Cooling	-	2.89	2.97	2.97	
		COP	Heating	-	3.47	3.41	3.41	
		SEER (Cooling Energy Grade)		-	5.9 (A+)	6.1 (-)	6.1 (-)	
		SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (-)	4.0 (-)	
		Pdesignh		kW	6.5	8.4	8.4	
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
		Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
				Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
		Piping length (ODU-IDU)	Standard	Max.	m	5	5	5
				Elevation	m	30	30	30
				Chargeless	Min.	m	30	30
	Remark				-	F1, F2	F1, F2	F1, F2
	Wiring connections	Communication		mm ²	0.75	0.75	0.75	
		-	F1, F2	F1, F2	F1, F2			
Refrigerant	Type		-	R32	R32	R32		
	Factory Charging		kg	2.7	2.9	2.9		
			tCO ₂ e	1.82	1.96	1.96		

1. Specification

Big Ceiling

Indoor Unit	Model Name		Indoor Unit	AC120RNCDKG/EU	AC140RNCDKG/EU	AC140RNCDKG/EU	
			Outdoor Unit	AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Sirocco	Sirocco	Sirocco
		Quantity		EA	4	4	4
		Air Flow Rate	Cooling (H/M/L)	m ³ /min	30.0 / 24.0 / 20.0	34.0 / 27.0 / 23.0	34.0 / 27.0 / 23.0
				l/s	500 / 400 / 333	567 / 450 / 383	567 / 450 / 383
			Heating (H/M/L)	m ³ /min	32.0 / 26.0 / 22.0	34.0 / 27.0 / 23.0	34.0 / 27.0 / 23.0
	l/s			533 / 433 / 366	567 / 450 / 383	567 / 450 / 383	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	244 x 1	244 x 1	244 x 1
	Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
	Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 41 / 37	46 / 42 / 38	46 / 42 / 38
		Sound Power Level		dB(A)	62	64	64
	External Dimension	Net Weight		kg	41.5	41.5	41.5
		Shipping Weight		kg	48.0	48.0	48.0
		Net Dimensions (WxHxD)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675
		Shipping Dimensions (WxHxD)		mm	1,739 x 321 x 758	1,739 x 321 x 758	1,739 x 321 x 758
	Casing	Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
		Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
	Drain Pump	Drain Pump		-	-	-	-
		Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	-	-	-	
		Internal Model	-	-	-	-	
		Max. lifting Height / Displacement	mm / Liter / h	-	-	-	
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable	
	Virus Doctor		-	Option	Option	Option	

1. Specification

Big Ceiling

Model Name	Indoor Unit			AC120RNCDKG/EU	AC140RNCDKG/EU	AC140RNCDKG/EU
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
Power Supply	Ø, #, V, Hz			3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
Compressor	Model Name			UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
	Type			Twin BLDC	Twin BLDC	Twin BLDC
	Output			kW	4.25	4.25
	Oil	Type	-	POE	POE	POE
Initial charge		cc	1,700	1,700	1,700	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	2	2
	Air Flow Rate		m ³ /min	72	110	110
l/s			1,200	1,833	1,833	
Fan Motor	Type			BLDC Motor	BLDC Motor	BLDC Motor
	Output			W x n	125 x 1	125 x 2
Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
		Heating	dB(A)	56	54	54
	Sound Power Level		dB(A)	70	69	69
External Dimension	Net Weight		kg	80.0	91.5	90.5
	Shipping Weight		kg	85.0	100.0	99.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
		Operating Temp. Range			°C	-15 ~ 50
Heating			°C	-20 ~ 24	-20 ~ 24	

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - 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.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

Big Ceiling

Performance Characteristics

Model Code	Net Weight (kg)	Capacity			Fan Speed	Airflow (Cooling/Heating) (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)
		Cooling (kW)	Heating (kW)					
AC100RNCDKG/EU	41.5	Max.	12.00	15.50	High	26.0	42	60
		Std.	10.00	11.20	Mid	23.0	38	
		Min.	3.00	2.20	Low	19.0	34	
AC120RNCDKG/EU	41.5	Max.	13.50	16.50	High	30.0	44	62
		Std.	12.00	13.20	Mid	24.0	41	
		Min.	3.00	3.80	Low	20.0	37	
AC140RNCDKG/EU	41.5	Max.	15.50	18.00	High	34.0	46	64
		Std.	13.40	15.50	Mid	27.0	42	
		Min.	3.50	3.50	Low	23.0	38	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)
		Hz	Volts	Min.	Max.	Cooling	Heating				
AC100RNCDKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC100RNCDKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC120RNCDKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC120RNCDKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC140RNCDKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	33.5	33.5	1.0	34.5	34.5	40.0
AC140RNCDKG/EU	AC140RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	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

Big Ceiling

(1) AC100RNCDKG/EU+AC100RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.4	2.35	10.3	7.7	2.39	10.7	7.9	2.44	11.0	8.2	2.49	11.2	8.1	2.52	11.8	8.0	2.54	12.4	7.8	2.59
21	9.3	7.1	2.47	9.8	7.3	2.52	10.2	7.5	2.57	10.5	7.8	2.62	10.7	7.7	2.65	11.2	7.6	2.68	11.8	7.5	2.73
35	8.8	6.8	3.09	9.3	7.0	3.15	9.7	7.2	3.21	10.0	7.4	3.28	10.2	7.3	3.31	10.7	7.3	3.35	11.2	7.1	3.41
46	7.5	6.3	3.24	7.9	6.5	3.31	8.2	6.7	3.38	8.5	6.9	3.44	8.7	6.8	3.48	9.1	6.8	3.51	9.6	6.6	3.58
50	5.8	5.0	2.69	6.1	5.1	2.74	6.3	5.3	2.80	6.5	5.5	2.85	6.6	5.4	2.88	7.0	5.4	2.91	7.3	5.2	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
-20	7.9	4.31	7.8	4.27	7.7	4.23	7.7	4.18	7.6	4.14	7.5	4.10
-15	9.9	4.64	9.8	4.60	9.7	4.55	9.6	4.50	9.6	4.46	9.5	4.41
-5	11.2	4.97	11.1	4.92	11.0	4.88	10.9	4.83	10.8	4.78	10.7	4.73
0	11.7	3.98	11.5	3.94	11.4	3.90	11.3	3.86	11.2	3.82	11.1	3.78
7	11.4	3.32	11.3	3.28	11.2	3.25	11.1	3.22	11.0	3.19	10.9	3.15
24	14.9	3.81	14.7	3.77	14.6	3.74	14.4	3.70	14.3	3.66	14.1	3.63

NOTE

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

3. Capacity Table

Big Ceiling

(2) AC100RNCDKG/EU+AC100RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.4	2.25	10.3	7.7	2.30	10.7	7.9	2.35	11.0	8.2	2.39	11.2	8.1	2.42	11.8	8.0	2.44	12.4	7.8	2.49
21	9.3	7.1	2.37	9.8	7.3	2.42	10.2	7.5	2.47	10.5	7.8	2.52	10.7	7.7	2.55	11.2	7.6	2.57	11.8	7.5	2.62
35	8.8	6.8	2.96	9.3	7.0	3.03	9.7	7.2	3.09	10.0	7.4	3.15	10.2	7.3	3.18	10.7	7.3	3.21	11.2	7.1	3.28
46	7.8	6.5	3.26	8.2	6.7	3.33	8.5	6.9	3.40	8.8	7.2	3.47	9.0	7.1	3.50	9.4	7.0	3.53	9.9	6.9	3.60
50	6.4	5.5	2.91	6.7	5.7	2.96	7.0	5.9	3.03	7.2	6.0	3.09	7.3	6.0	3.12	7.7	5.9	3.15	8.1	5.8	3.21

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.24	7.8	4.20	7.7	4.16	7.7	4.12	7.6	4.08	7.5	4.04
-15	9.9	4.57	9.8	4.52	9.7	4.48	9.6	4.44	9.6	4.39	9.5	4.35
-5	11.2	4.90	11.1	4.85	11.0	4.80	10.9	4.75	10.8	4.70	10.7	4.66
0	11.7	3.92	11.5	3.88	11.4	3.84	11.3	3.80	11.2	3.76	11.1	3.73
7	11.4	3.26	11.3	3.23	11.2	3.20	11.1	3.17	11.0	3.14	10.9	3.10
24	14.9	3.75	14.7	3.72	14.6	3.68	14.4	3.64	14.3	3.61	14.1	3.57

NOTE

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

3. Capacity Table

Big Ceiling

(3) AC120RNCDKG/EU+AC120RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.6	3.11	12.3	8.8	3.18	12.8	9.1	3.24	13.2	9.4	3.31	13.5	9.3	3.34	14.2	9.2	3.37	14.9	9.0	3.44
21	11.1	8.2	3.28	11.7	8.4	3.34	12.2	8.7	3.41	12.6	8.9	3.48	12.9	8.9	3.51	13.5	8.8	3.55	14.2	8.6	3.62
35	10.6	7.8	4.09	11.2	8.0	4.18	11.6	8.3	4.26	12.0	8.5	4.35	12.2	8.4	4.39	12.9	8.4	4.44	13.5	8.2	4.53
46	9.0	7.6	3.68	9.5	7.8	3.76	9.9	8.0	3.84	10.2	8.3	3.92	10.4	8.2	3.95	10.9	8.1	3.99	11.5	8.0	4.07
50	6.9	6.1	3.28	7.3	6.2	3.34	7.6	6.4	3.41	7.8	6.6	3.48	8.0	6.6	3.51	8.4	6.5	3.55	8.8	6.4	3.62

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.08	9.2	5.03	9.1	4.98	9.0	4.93	8.9	4.88	8.8	4.83
-15	11.7	5.47	11.6	5.42	11.5	5.36	11.4	5.31	11.3	5.26	11.1	5.20
-5	13.2	5.67	13.1	5.61	12.9	5.55	12.8	5.50	12.7	5.44	12.6	5.39
0	13.7	4.69	13.6	4.64	13.5	4.60	13.3	4.55	13.2	4.50	13.1	4.46
7	13.5	3.91	13.3	3.87	13.2	3.83	13.1	3.79	12.9	3.75	12.8	3.72
24	17.5	4.49	17.3	4.45	17.2	4.40	17.0	4.36	16.8	4.32	16.7	4.27

NOTE

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

3. Capacity Table

Big Ceiling

(4) AC120RNCDKG/EU+AC120RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	8.6	2.97	12.3	8.8	3.03	12.8	9.1	3.09	13.2	9.4	3.15	13.5	9.3	3.19	14.2	9.2	3.22	14.9	9.0	3.28
21	11.1	8.2	3.12	11.7	8.4	3.19	12.2	8.7	3.25	12.6	8.9	3.32	12.9	8.9	3.35	13.5	8.8	3.39	14.2	8.6	3.45
35	10.6	7.8	3.91	11.2	8.0	3.99	11.6	8.3	4.07	12.0	8.5	4.15	12.2	8.4	4.19	12.9	8.4	4.23	13.5	8.2	4.32
46	9.0	7.5	3.52	9.5	7.7	3.59	9.9	8.0	3.66	10.2	8.2	3.74	10.4	8.1	3.77	10.9	8.1	3.81	11.5	7.9	3.89
50	6.9	6.0	3.12	7.3	6.2	3.19	7.6	6.4	3.25	7.8	6.6	3.32	8.0	6.5	3.35	8.4	6.4	3.39	8.8	6.3	3.45

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.04	9.2	4.99	9.1	4.94	9.0	4.89	8.9	4.84	8.8	4.79
-15	11.7	5.43	11.6	5.37	11.5	5.32	11.4	5.27	11.3	5.21	11.1	5.16
-5	13.2	5.62	13.1	5.57	12.9	5.51	12.8	5.45	12.7	5.40	12.6	5.35
0	13.7	4.65	13.6	4.61	13.5	4.56	13.3	4.51	13.2	4.47	13.1	4.42
7	13.5	3.88	13.3	3.84	13.2	3.80	13.1	3.76	12.9	3.72	12.8	3.69
24	17.5	4.46	17.3	4.41	17.2	4.37	17.0	4.33	16.8	4.28	16.7	4.24

NOTE

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

3. Capacity Table

Big Ceiling

(5) AC140RNCDKG/EU+AC140RXADKG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.22	13.8	9.8	3.28	14.3	10.1	3.35	14.8	10.4	3.42	15.1	10.3	3.45	15.8	10.2	3.49	16.6	10.0	3.56
21	12.4	9.0	3.39	13.1	9.3	3.46	13.6	9.6	3.53	14.1	9.9	3.60	14.4	9.8	3.64	15.1	9.7	3.67	15.8	9.5	3.75
35	11.9	8.6	4.24	12.5	8.8	4.32	13.0	9.1	4.41	13.4	9.4	4.50	13.7	9.3	4.55	14.4	9.2	4.59	15.1	9.0	4.68
46	10.1	8.3	3.81	10.6	8.5	3.89	11.0	8.8	3.97	11.4	9.1	4.05	11.6	9.0	4.09	12.2	8.9	4.13	12.8	8.7	4.21
50	7.7	6.6	3.39	8.1	6.8	3.46	8.4	7.0	3.53	8.7	7.2	3.60	8.9	7.2	3.64	9.3	7.1	3.67	9.8	6.9	3.75

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
-20	10.3	5.09	10.2	5.04	10.1	4.99	10.0	4.94	9.9	4.89	9.8	4.85
-15	13.8	6.02	13.6	5.96	13.5	5.90	13.4	5.84	13.2	5.78	13.1	5.73
-5	15.5	6.48	15.3	6.42	15.2	6.36	15.0	6.29	14.9	6.23	14.7	6.17
0	16.1	5.56	16.0	5.50	15.8	5.45	15.7	5.39	15.5	5.34	15.3	5.29
7	15.8	4.63	15.7	4.59	15.5	4.54	15.3	4.49	15.2	4.45	15.0	4.41
24	20.6	5.33	20.4	5.27	20.2	5.22	19.9	5.17	19.7	5.12	19.6	5.07

NOTE

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

3. Capacity Table

Big Ceiling

(6) AC140RNCDKG/EU+AC140RXADNG/EU

Cooling

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

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.5	3.22	13.8	9.8	3.28	14.3	10.1	3.35	14.8	10.4	3.42	15.1	10.3	3.45	15.8	10.2	3.49	16.6	10.0	3.56
21	12.4	9.0	3.39	13.1	9.3	3.46	13.6	9.6	3.53	14.1	9.9	3.60	14.4	9.8	3.64	15.1	9.7	3.67	15.8	9.5	3.75
35	11.9	8.6	4.24	12.5	8.8	4.32	13.0	9.1	4.41	13.4	9.4	4.50	13.7	9.3	4.55	14.4	9.2	4.59	15.1	9.0	4.68
46	10.1	8.3	3.81	10.6	8.5	3.89	11.0	8.8	3.97	11.4	9.1	4.05	11.6	9.0	4.09	12.2	8.9	4.13	12.8	8.7	4.21
50	7.7	6.6	3.39	8.1	6.8	3.46	8.4	7.0	3.53	8.7	7.2	3.60	8.9	7.2	3.64	9.3	7.1	3.67	9.8	6.9	3.75

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
-20	10.3	5.09	10.2	5.04	10.1	4.99	10.0	4.94	9.9	4.89	9.8	4.85
-15	13.8	6.02	13.6	5.96	13.5	5.90	13.4	5.84	13.2	5.78	13.1	5.73
-5	15.5	6.48	15.3	6.42	15.2	6.36	15.0	6.29	14.9	6.23	14.7	6.17
0	16.1	5.56	16.0	5.50	15.8	5.45	15.7	5.39	15.5	5.34	15.3	5.29
7	15.8	4.63	15.7	4.59	15.5	4.54	15.3	4.49	15.2	4.45	15.0	4.41
24	20.6	5.33	20.4	5.27	20.2	5.22	19.9	5.17	19.7	5.12	19.6	5.07

NOTE

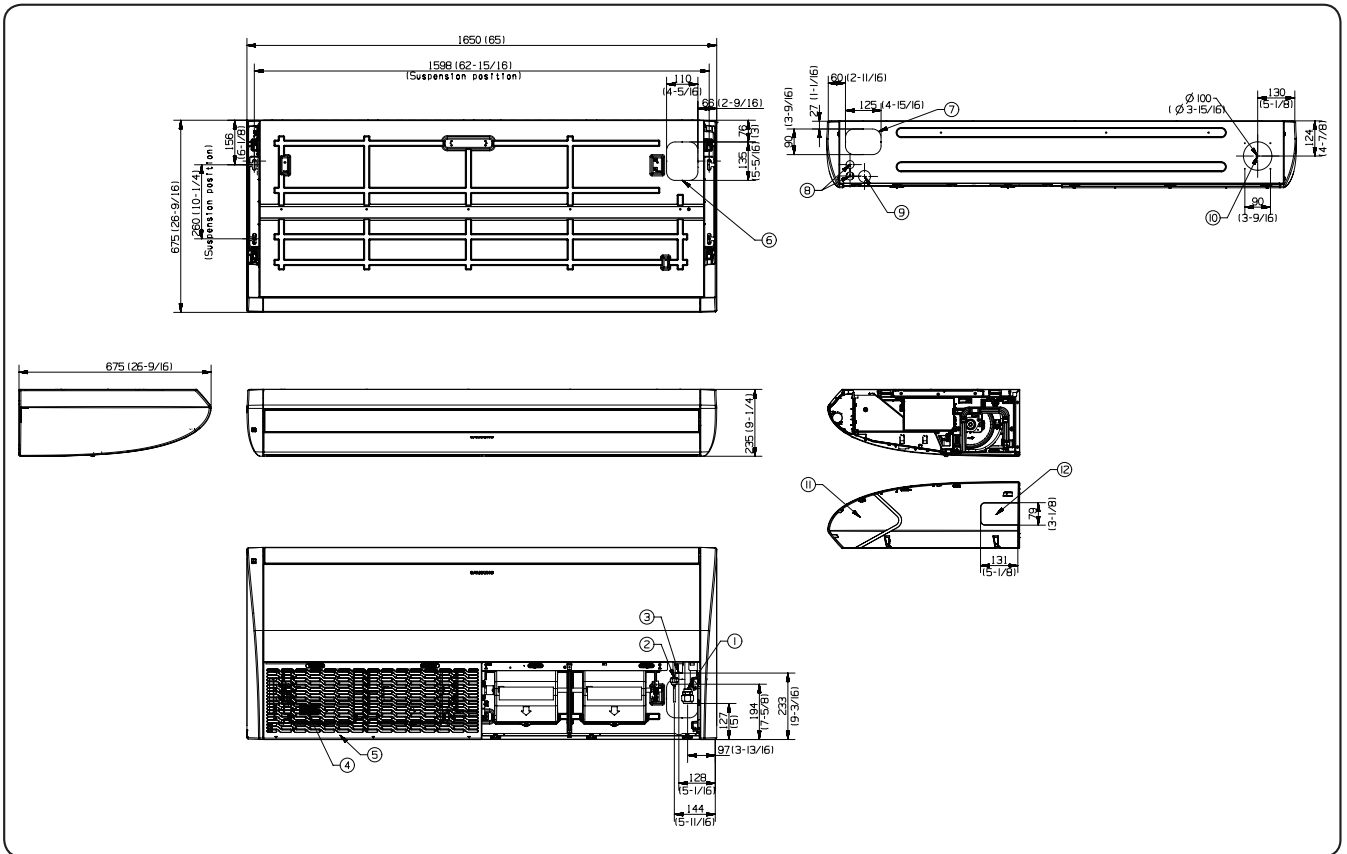
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Big Ceiling

AC100/120/140RNC DKG/EU

Units : mm [inches]



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

NOTE

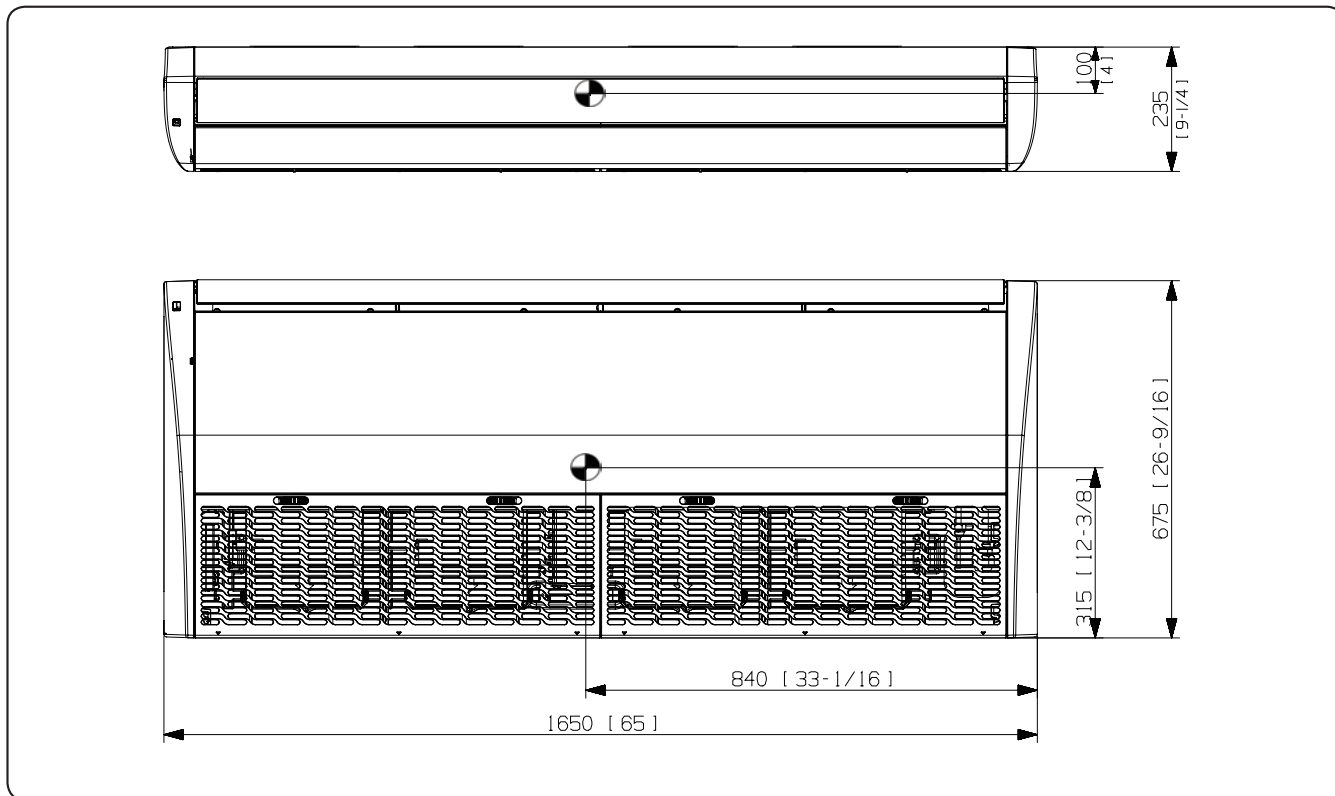
- As for suspension bolt, please use M8 ~ M10.
(Procured at local site)

5. Center of Gravity

Big Ceiling

AC100/120/140RNCDKG/EU

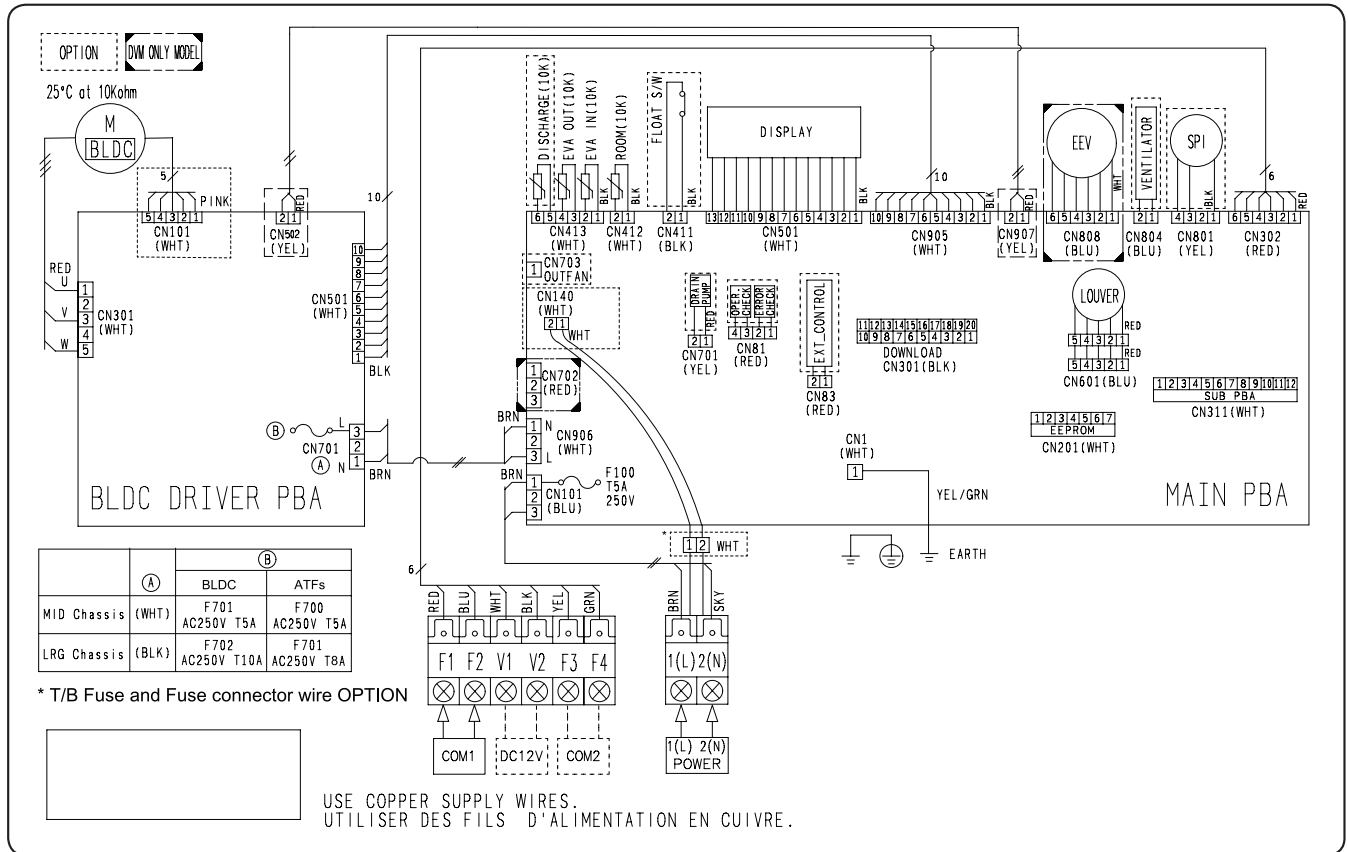
Units : mm [inches]



6. Electrical Wiring Diagram

Big Ceiling

AC100/120/140RNCDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

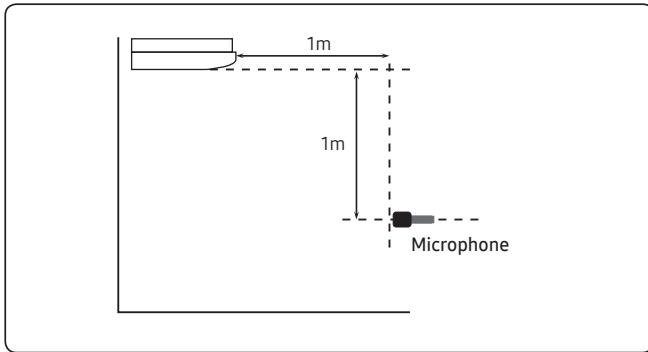
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow : blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

Big Ceiling

Sound Pressure level

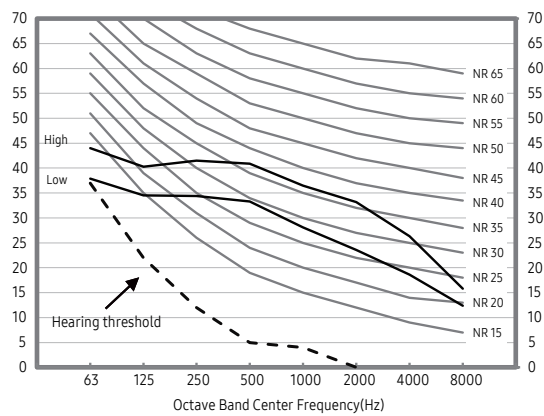
Unit: dB(A)



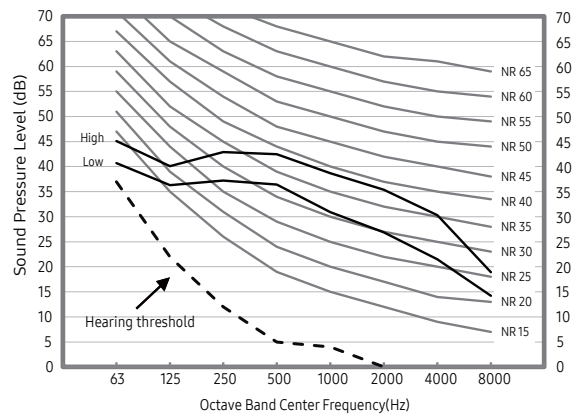
Model	HIGH	MID	LOW
AC100RNCDKG/EU	42	38	34
AC120RNCDKG/EU	44	41	37
AC140RNCDKG/EU	46	42	38

- NR Curve

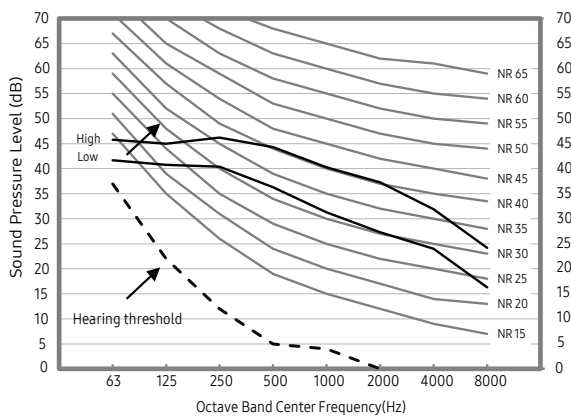
1) AC100RNCDKG/EU



2) AC120RNCDKG/EU



3) AC140RNCDKG/EU



NOTE

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

7. Sound Data

Big Ceiling

Sound Power level

Unit: dB(A)

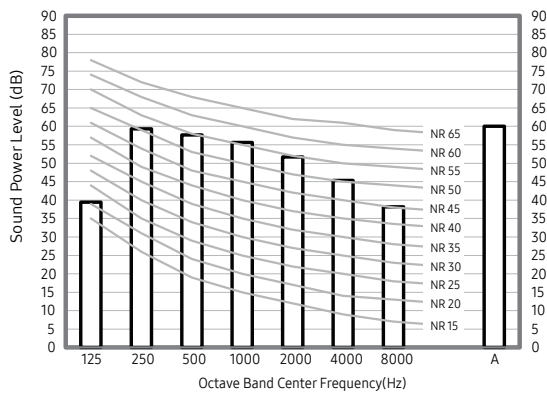
NOTE

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

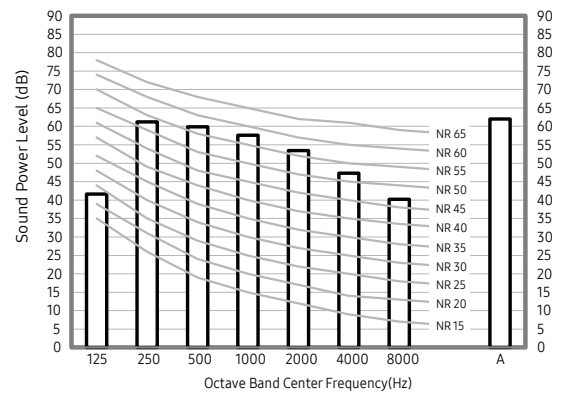
Model	Power
AC100RNCDKG/EU	60
AC120RNCDKG/EU	62
AC140RNCDKG/EU	64

NR Curve

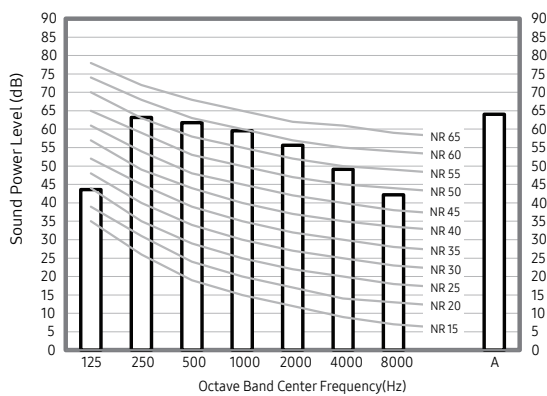
1) AC100RNCDKG/EU



2) AC120RNCDKG/EU



3) AC140RNCDKG/EU



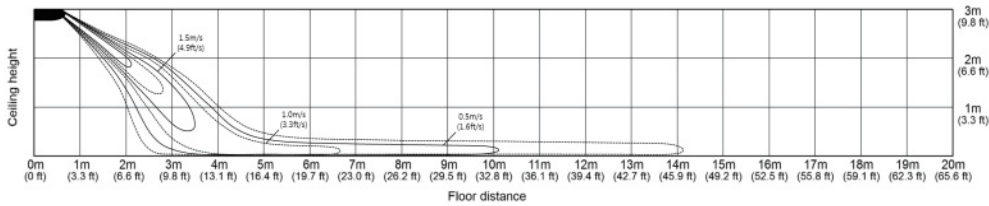
8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC100RNCDKG/EU

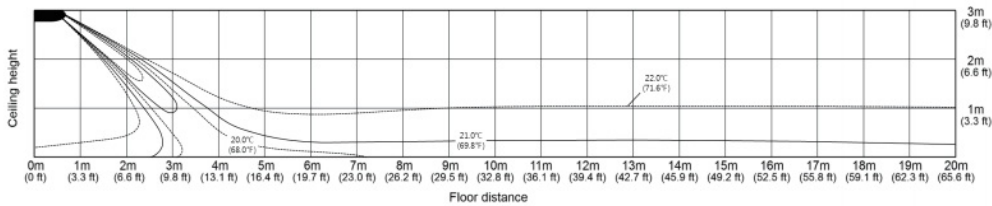
- Cooling Air Velocity distribution

(Discharge angle : 32 degree)



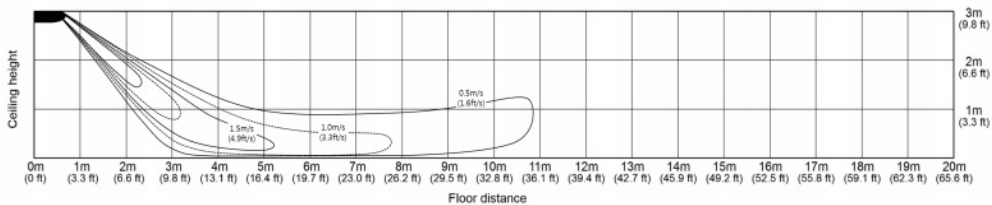
- Cooling temperature distribution

(Discharge angle : 32 degree)



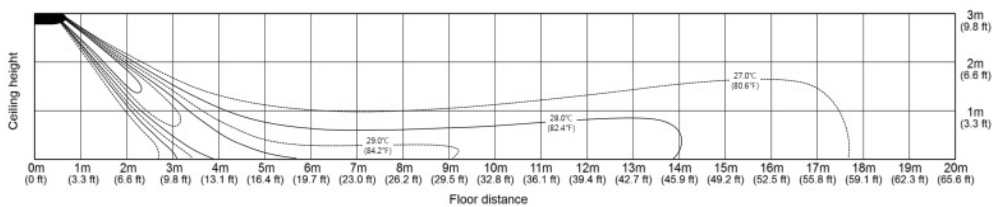
- Heating Air Velocity distribution

(Discharge angle : 32 degree)



- Heating temperature distribution

(Discharge angle : 32 degree)



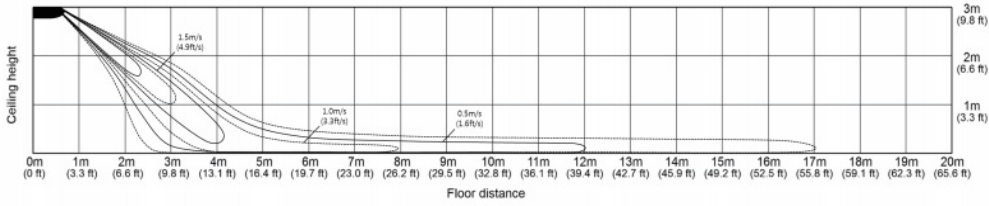
8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC120RNCDKG/EU

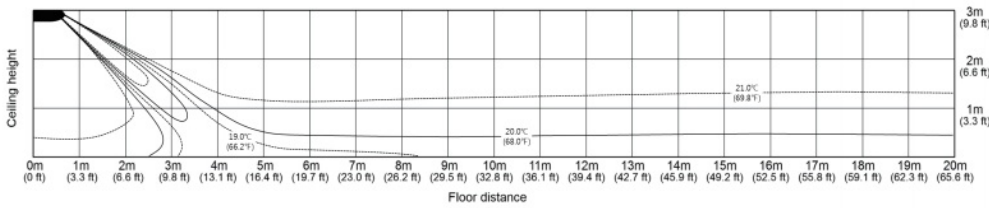
- Cooling Air Velocity distribution

(Discharge angle : 32 degree)



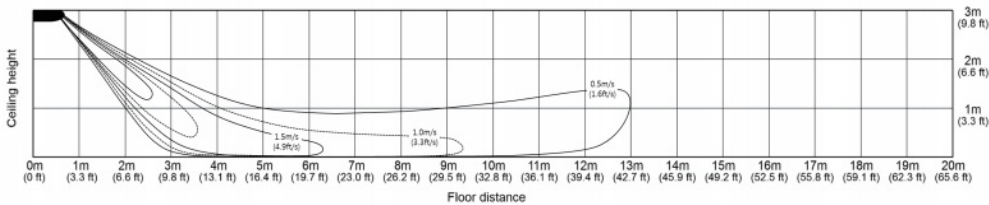
- Cooling temperature distribution

(Discharge angle : 32 degree)



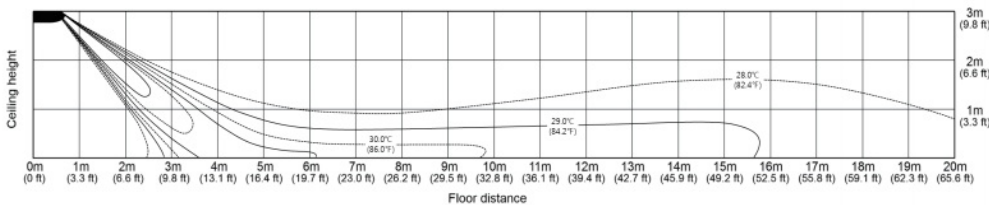
- Heating Air Velocity distribution

(Discharge angle : 32 degree)



- Heating temperature distribution

(Discharge angle : 32 degree)



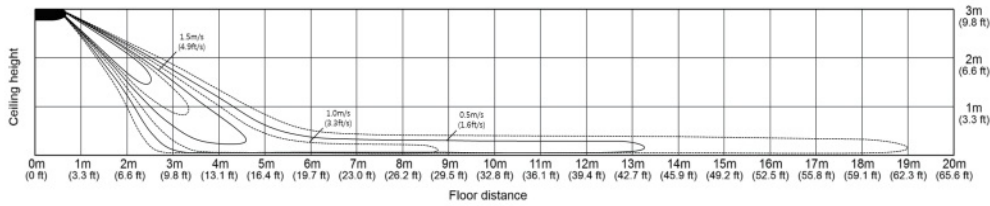
8. Temperature and air flow distribution

Big Ceiling (Ceiling Installation Only)

AC140RNCDKG/EU

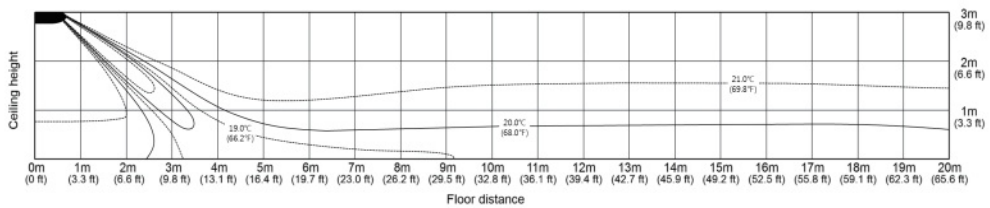
- Cooling Air Velocity distribution

(Discharge angle : 32 degree)



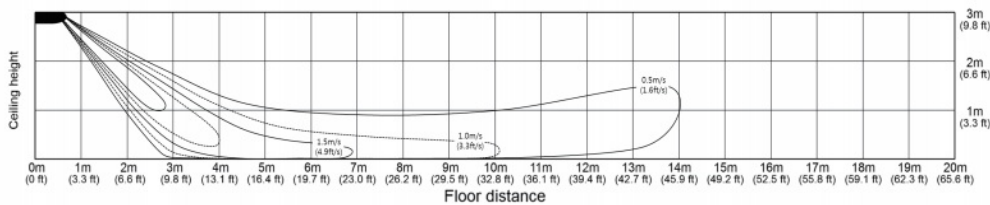
- Cooling temperature distribution

(Discharge angle : 32 degree)



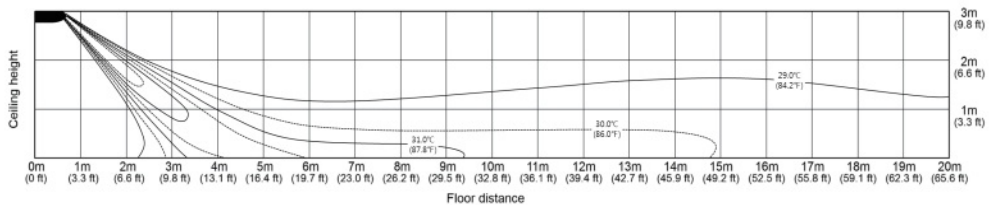
- Heating Air Velocity distribution

(Discharge angle : 32 degree)



- Heating temperature distribution

(Discharge angle : 32 degree)



Outdoor Units

1. Summary Table	271
2. Dimensional Drawing	272
3. Center of Gravity	277
4. Electrical Wiring Diagram	280
5. Sound Data	284
6. Capacity Correction	288
7. Operation Range	292
8. Piping Diagram	293

1. Summary Table

Outdoor Units

Performance Characteristics

Capacity kW	Model Code	Net Size (WxHxD mm)	Net Weight (kg)	Airflow (CMM)	Sound Pressure Level (dBA)		Sound Power Level (dBA)
					Cooling	Heating	
2.6	AC026RXADKG/EU	790 x 548 x 285	32.5	29	46	47	59
3.5	AC035RXADKG/EU	790 x 548 x 285	32.5	30	48	48	61
5.2	AC052RXADKG/EU	880 x 638 x 310	43.0	40	48	48	62
7.1	AC071RXADKG/EU	880 x 798 x 310	51.0	51	49	51	65
10.0	AC100RXAD*G/EU	940 x 998 x 330	72.0	72	52	54	69
12.0	AC120RXAD*G/EU	940 x 998 x 330	77.0	72	54	56	70
13.4	AC140RXAD*G/EU	940 x 1,210 x 330	87.0	110	53	54	69

NOTE

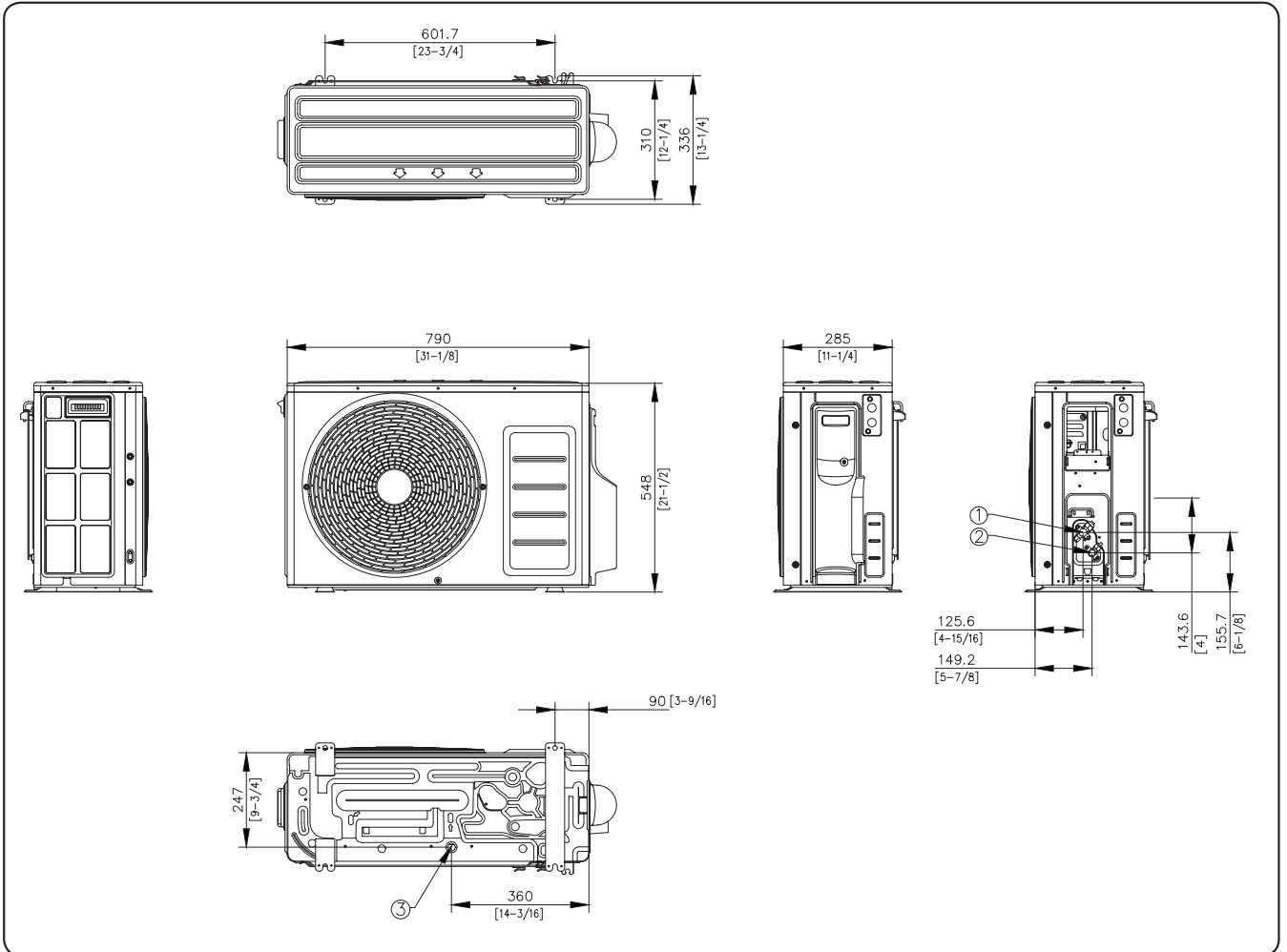
- Sound power level is based on cooling operation.

2. Dimensional Drawing

Outdoor Units

AC026/035RXADKG/EU

Units : mm [inches]



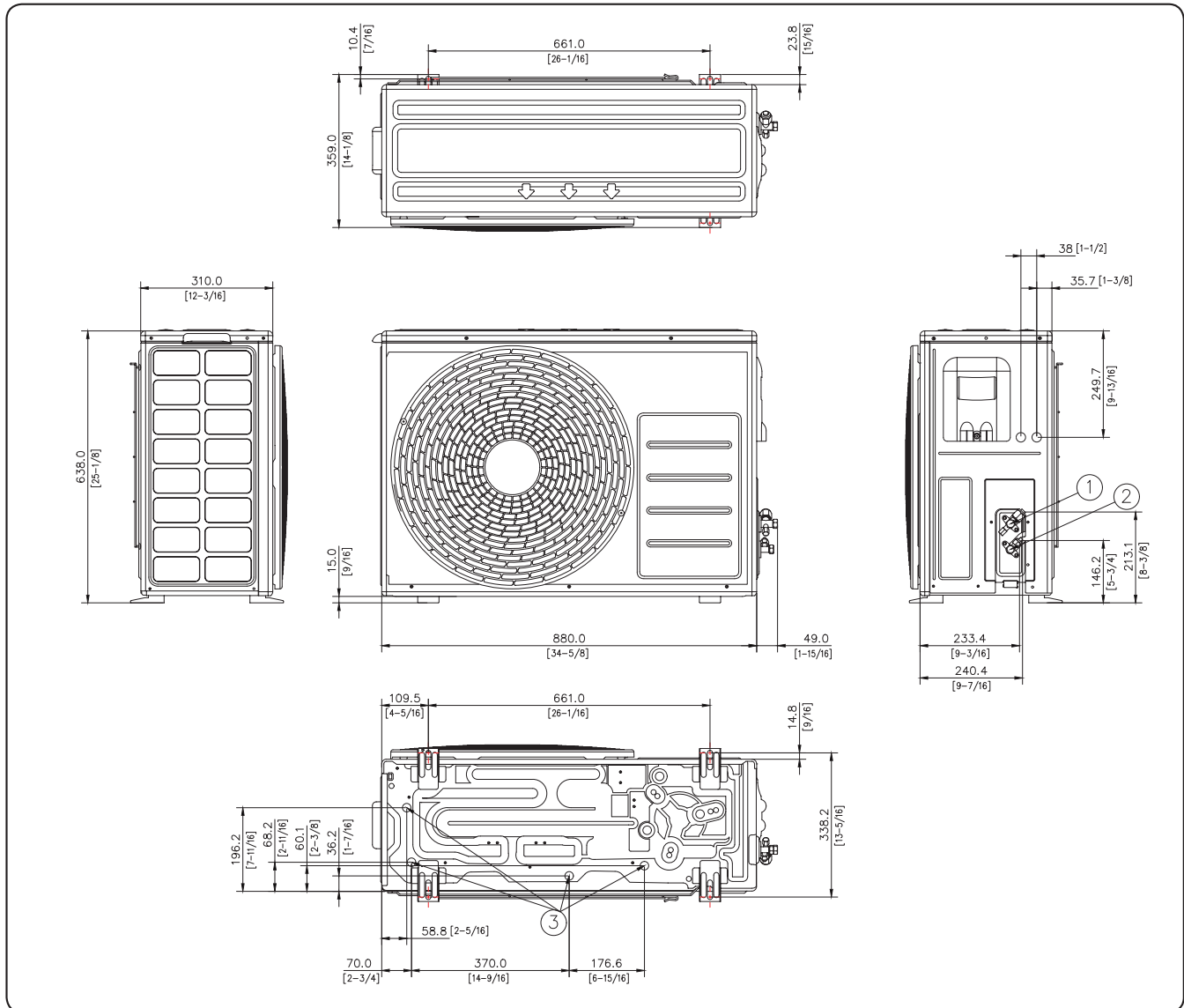
No.	Name	Description
1	Refrigerant gas pipe	Φ9.52(3/8)
2	Refrigerant liquid pipe	Φ6.35(1/4)
3	Drain Hole	Connection with the provided drain plug.

2. Dimensional Drawing

Outdoor Units

AC052RXADKG/EU

Units : mm [inches]



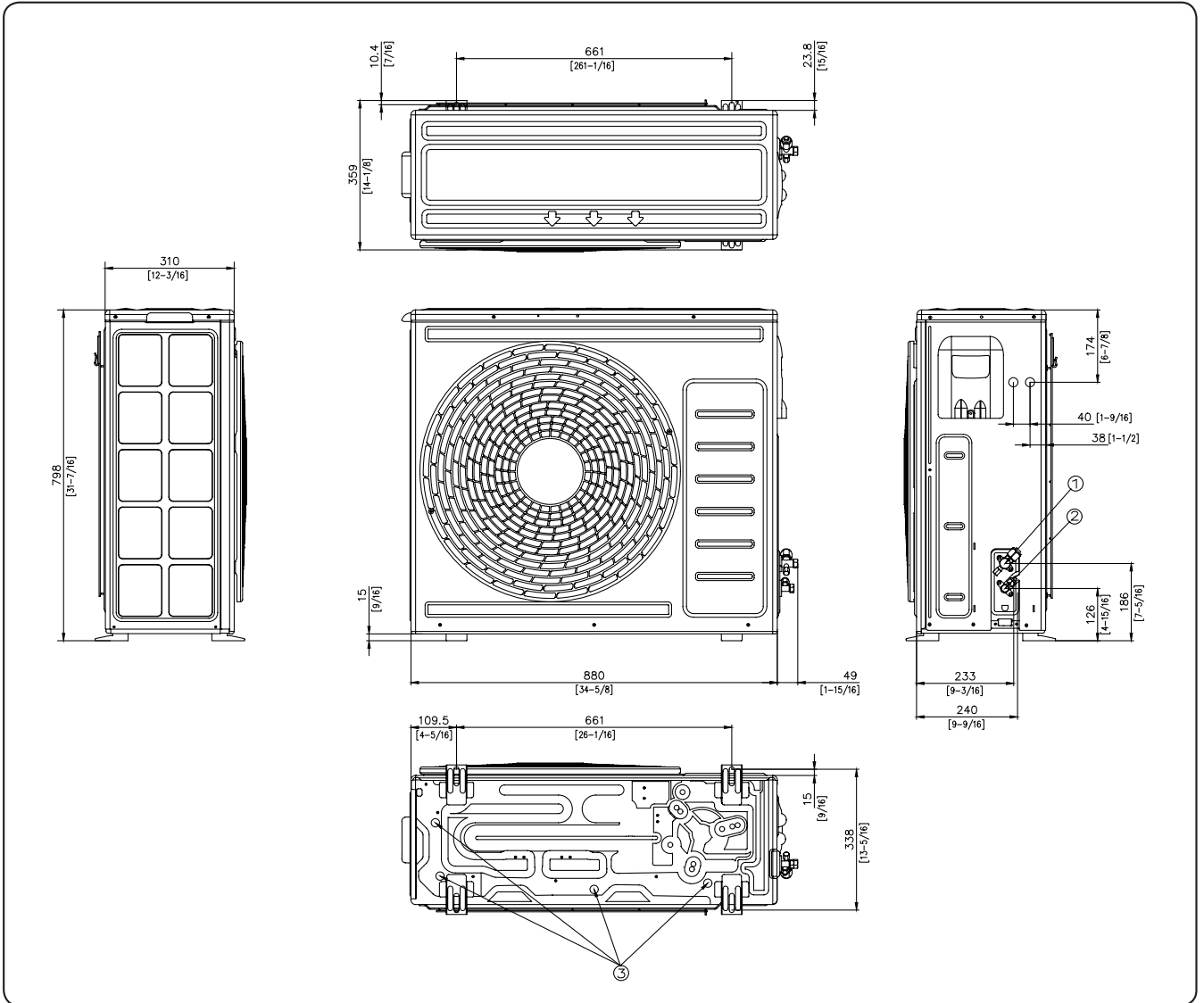
No.	Name	Description
1	Refrigerant gas pipe	Φ12.7(1/2)
2	Refrigerant liquid pipe	Φ6.35(1/4)
3	Drain Hole	Φ20

2. Dimensional Drawing

Outdoor Units

AC071RXADKG/EU

Units : mm [inches]



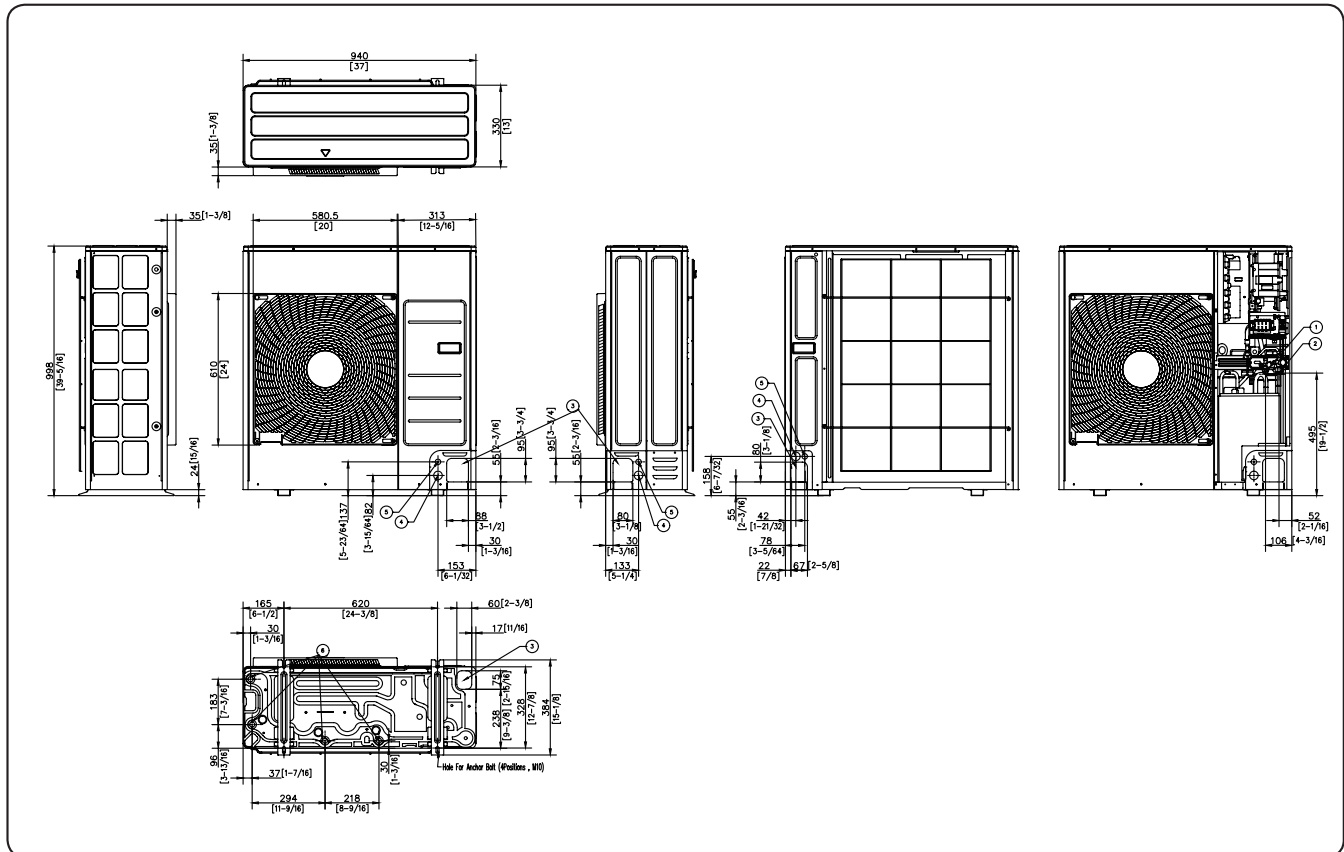
No.	Name	Description
1	Refrigerant gas pipe	Φ15.88(5/8)
2	Refrigerant liquid pipe	Φ6.35(1/4)
3	Drain Hole	Connection with the provided drain plug.

2. Dimensional Drawing

Outdoor Units

AC100/120RXAD*G/EU

Units : mm [inches]



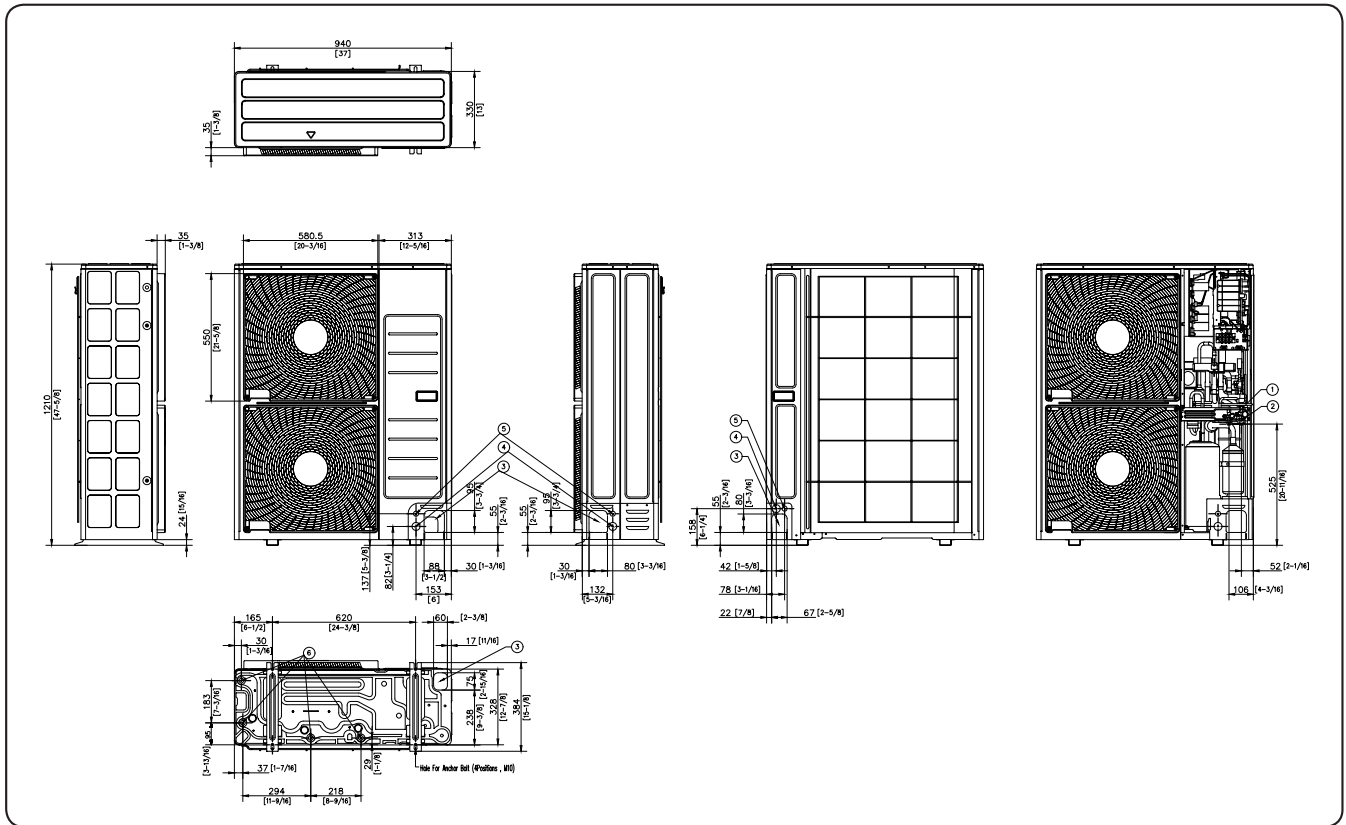
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear / Ø34 (1-3/8)
5	Communication wiring conduit	Front / Side / Rear / Ø22 (7/8)
6	Drain hole	Connect with the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

2. Dimensional Drawing

Outdoor Units

AC140RXAD*G/EU

Units : mm [inches]



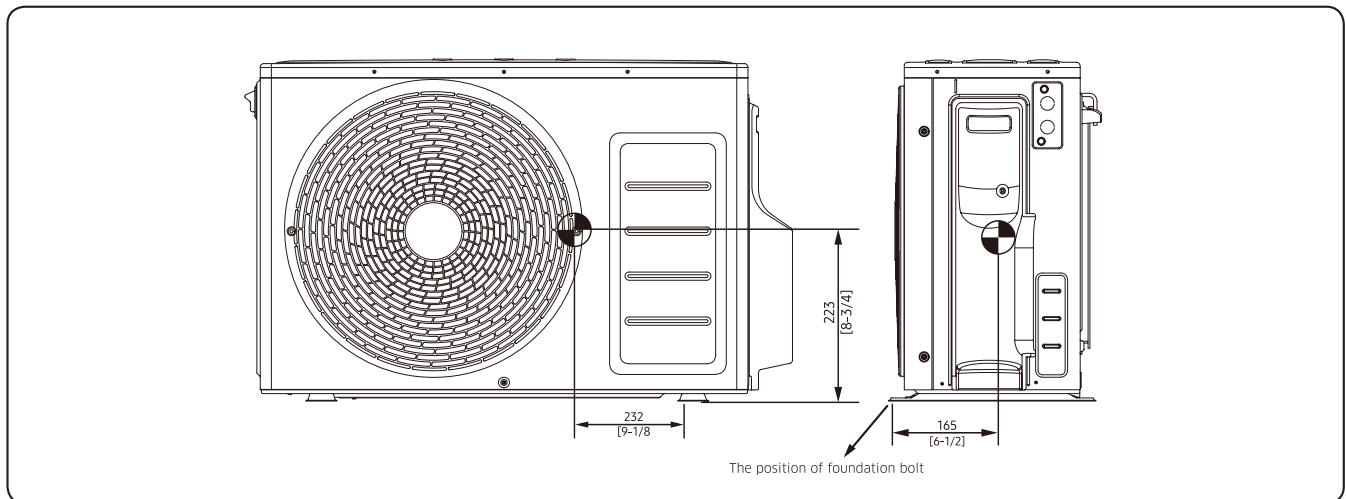
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear / Ø34 (1-3/8)
5	Communication wiring conduit	Front / Side / Rear / Ø22 (7/8)
6	Drain hole	Connect with the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

3. Center of Gravity

Outdoor Units

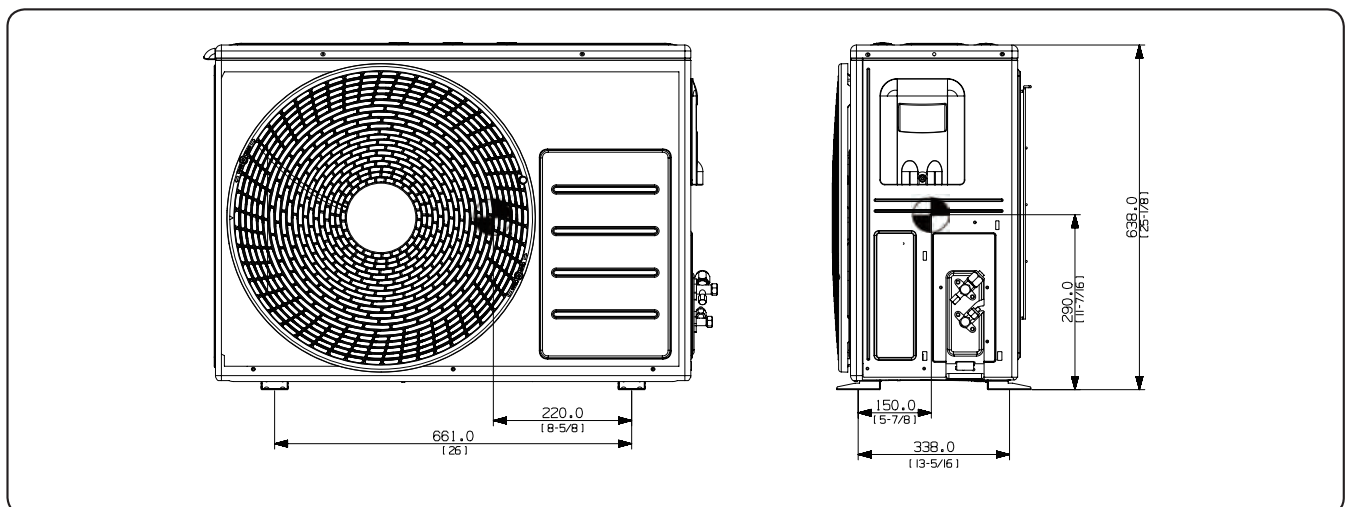
AC026/035RXADKG/EU

Units : mm [inches]



AC052RXADKG/EU

Units : mm [inches]

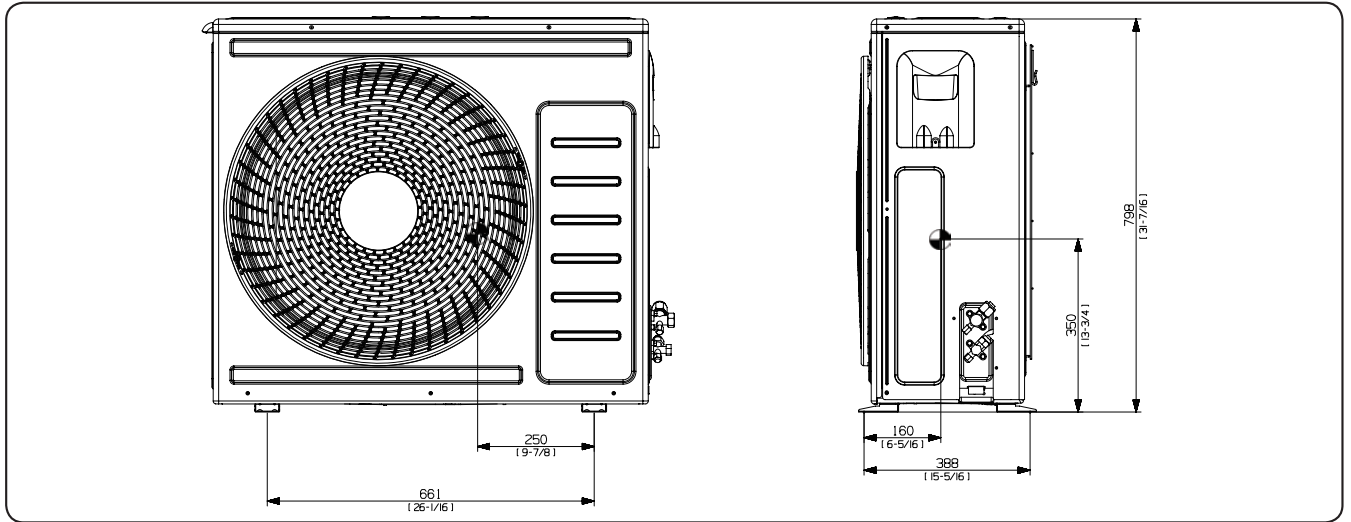


3. Center of Gravity

Outdoor Units

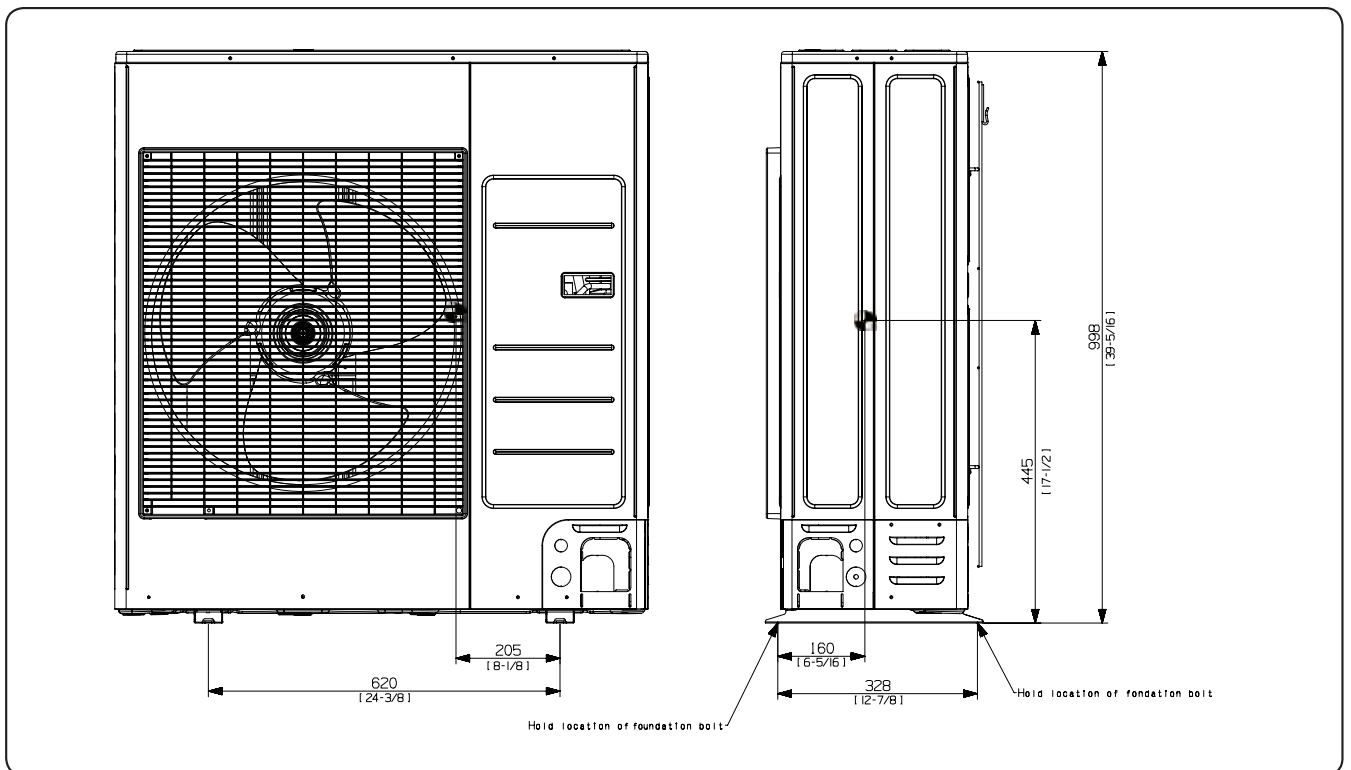
AC071RXADKG/EU

Units : mm [inches]



AC100/120RXAD*G/EU

Units : mm [inches]

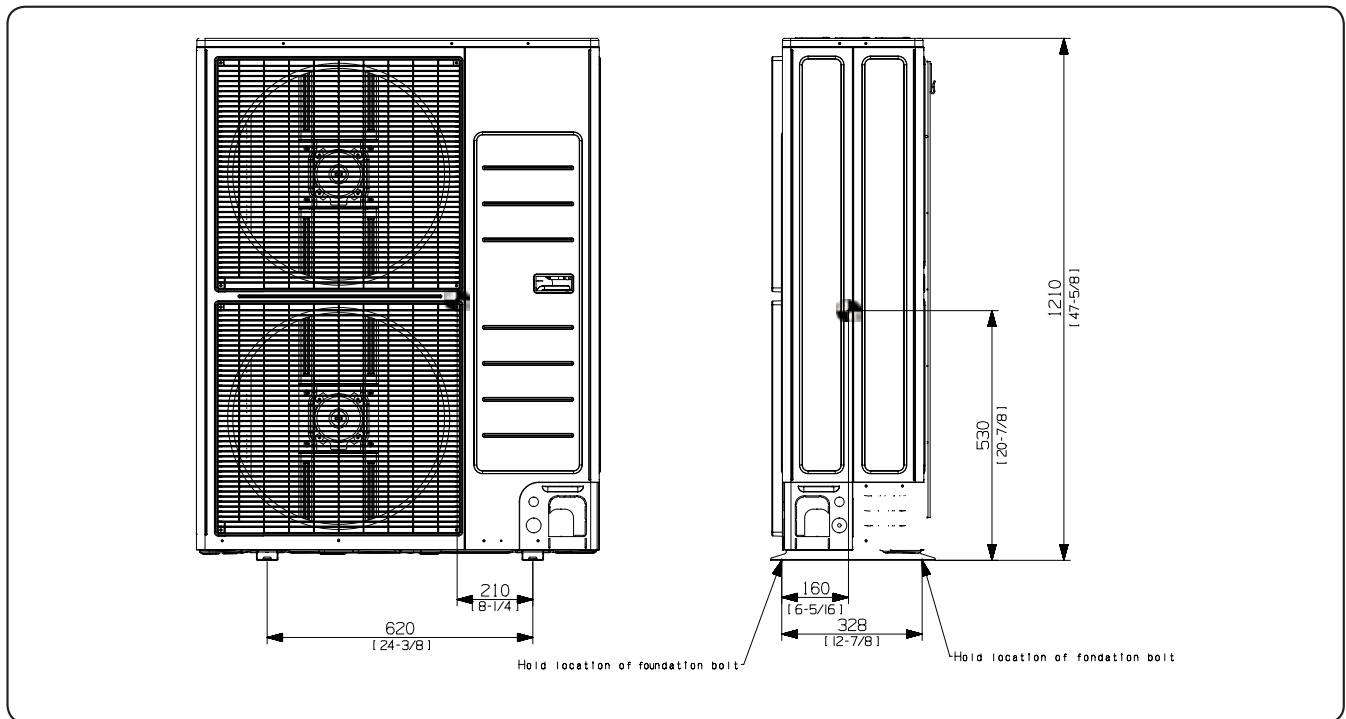


3. Center of Gravity

Outdoor Units

AC140RXAD*G/EU

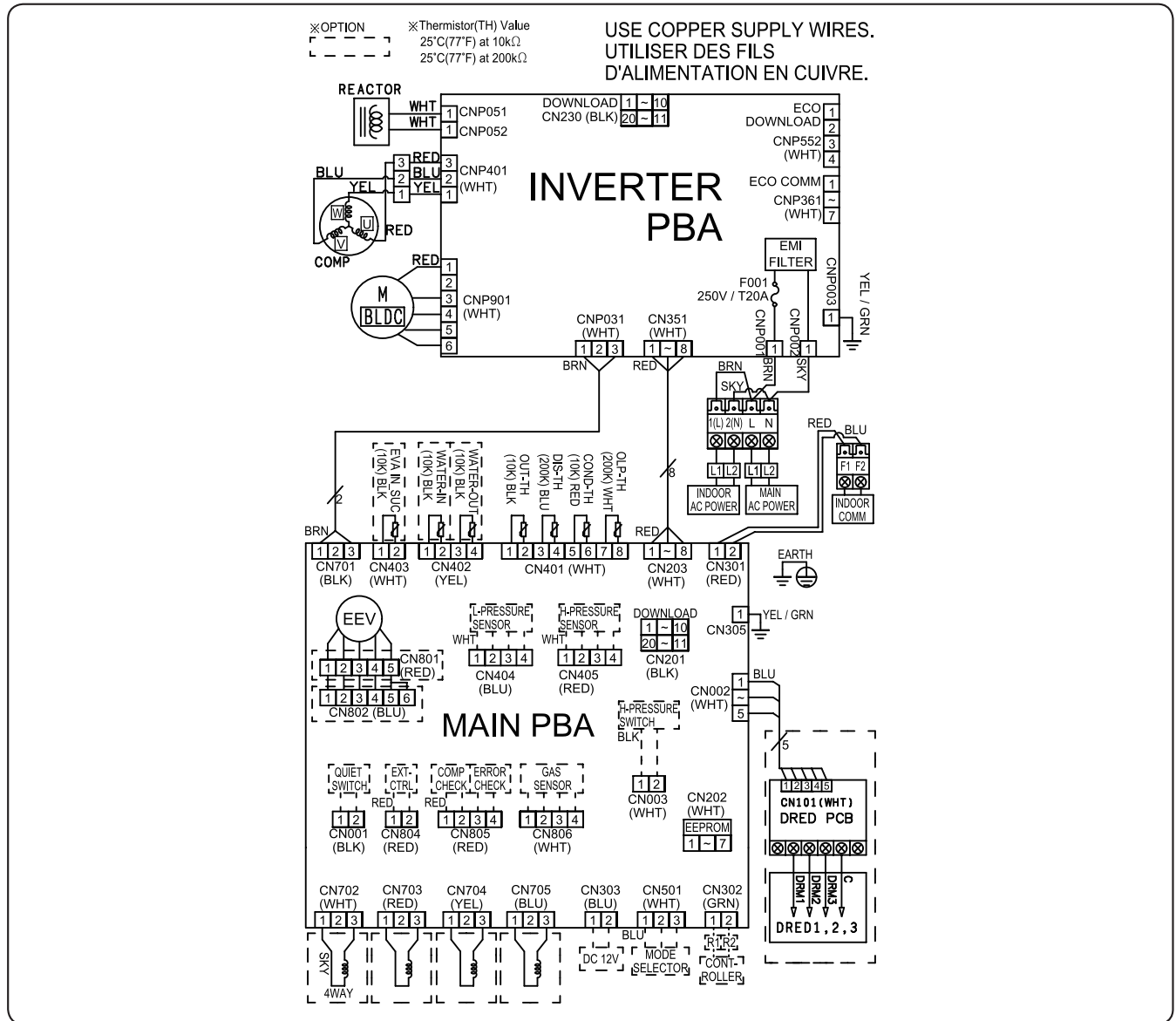
Units : mm [inches]



4. Electrical Wiring Diagram

Outdoor Units

AC026/035RXADKG/EU



DRED PCB	Printed circuit board(DRED)	H-PRESSURE SWITCH	High Pressure Switch	M-BLDC	BLDC Motor
EEV	Electronic Expansion Valve	OUT-TH(10K)	Thermistor AMBIENT	DIS-TH(200K)	Thermistor DISCHARGE
COND-TH(10K)	Thermistor CONDENSOR	OLP-TH(200K)	Thermistor OLP		

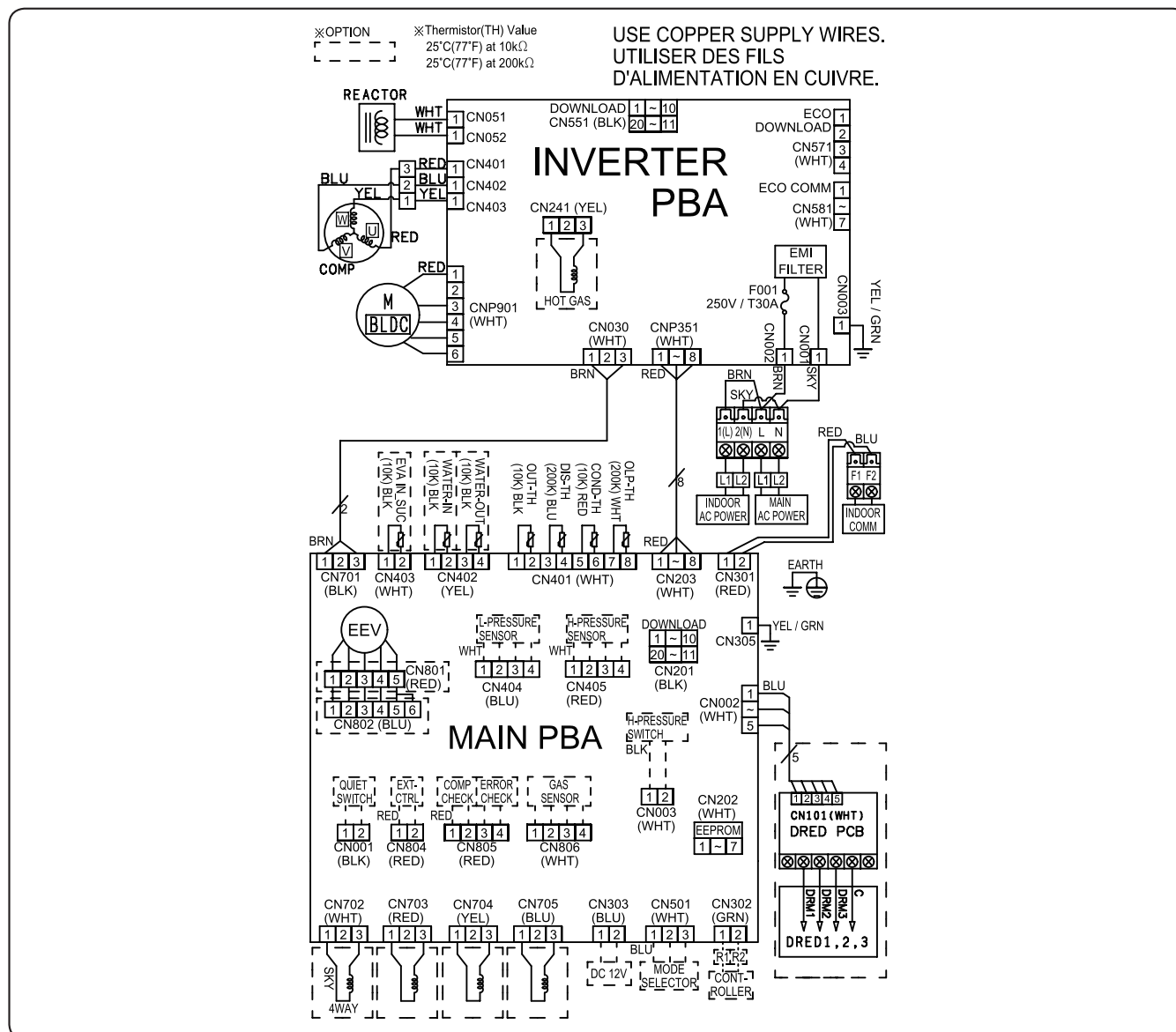
NOTE

- 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, : The wire quantity

4. Electrical Wiring Diagram

Outdoor Units

AC052/071RXADKG/EU



DRED PCB	Printed circuit board(DRED)	H-PRESSURE SWITCH	High Pressure Switch	M-BLDC	BLDC Motor
EEV	Electronic Expansion Valve	OUT-TH(10K)	Thermistor AMBIENT	DIS-TH(200K)	Thermistor DISCHARGE
COND-TH(10K)	Thermistor CONDENSOR	OLP-TH(200K)	Thermistor OLP		

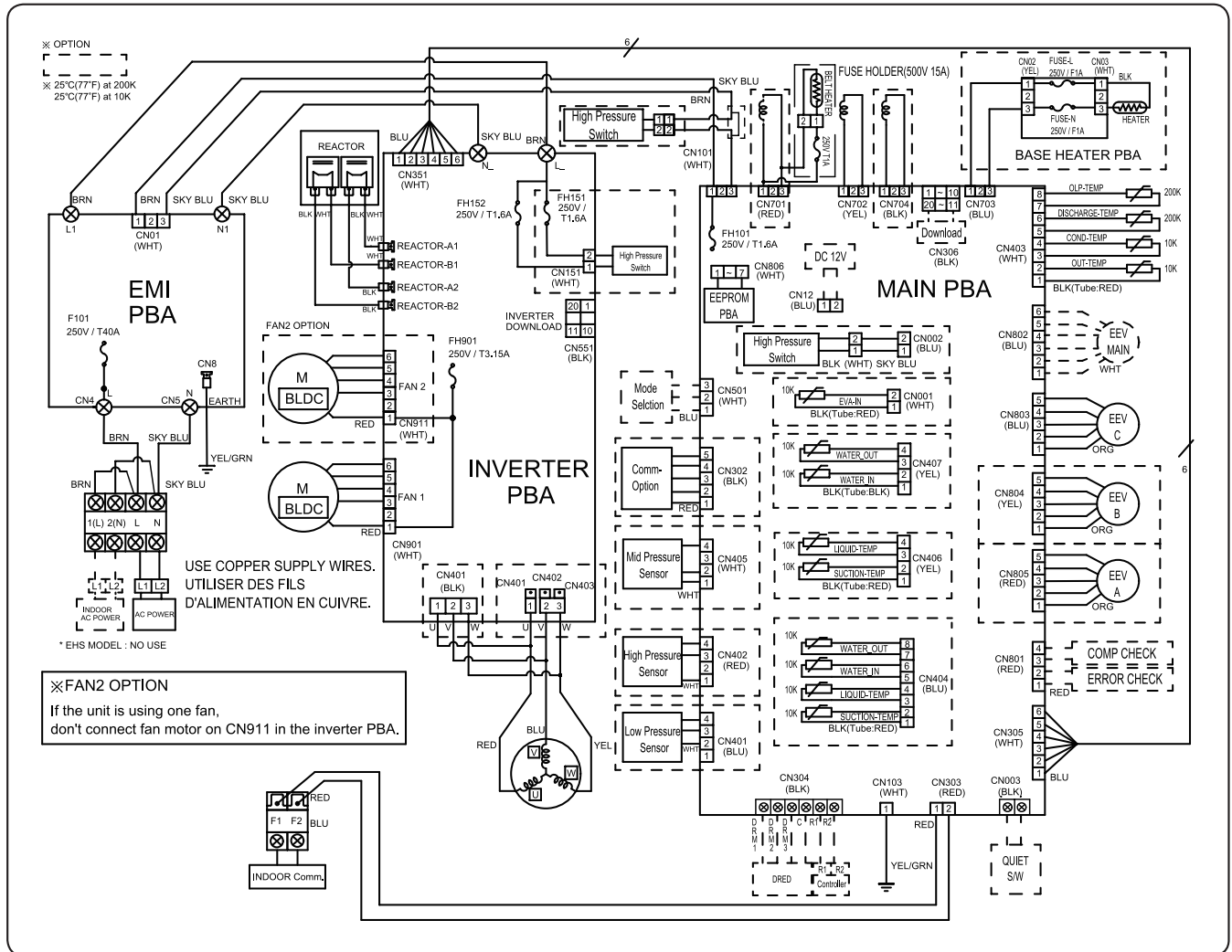
NOTE

- 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, : The wire quantity

4. Electrical Wiring Diagram

Outdoor Units

AC100/120/140RXADKG/EU



DRED PCB	Printed circuit board(DRED)	BASE HEATER PBA	Printed circuit board(BASE HEATER)	M-BLDC	BLDC Motor
EEV	Electronic Expansion Valve	OUT-Temp(10K)	Thermistor AMBIENT	COND Temp(10K)	Thermistor DISCHARGE
DISCHARGE Temp(200K)	Thermistor CONDENSOR	OLP Temp(200K)	Thermistor OLP		

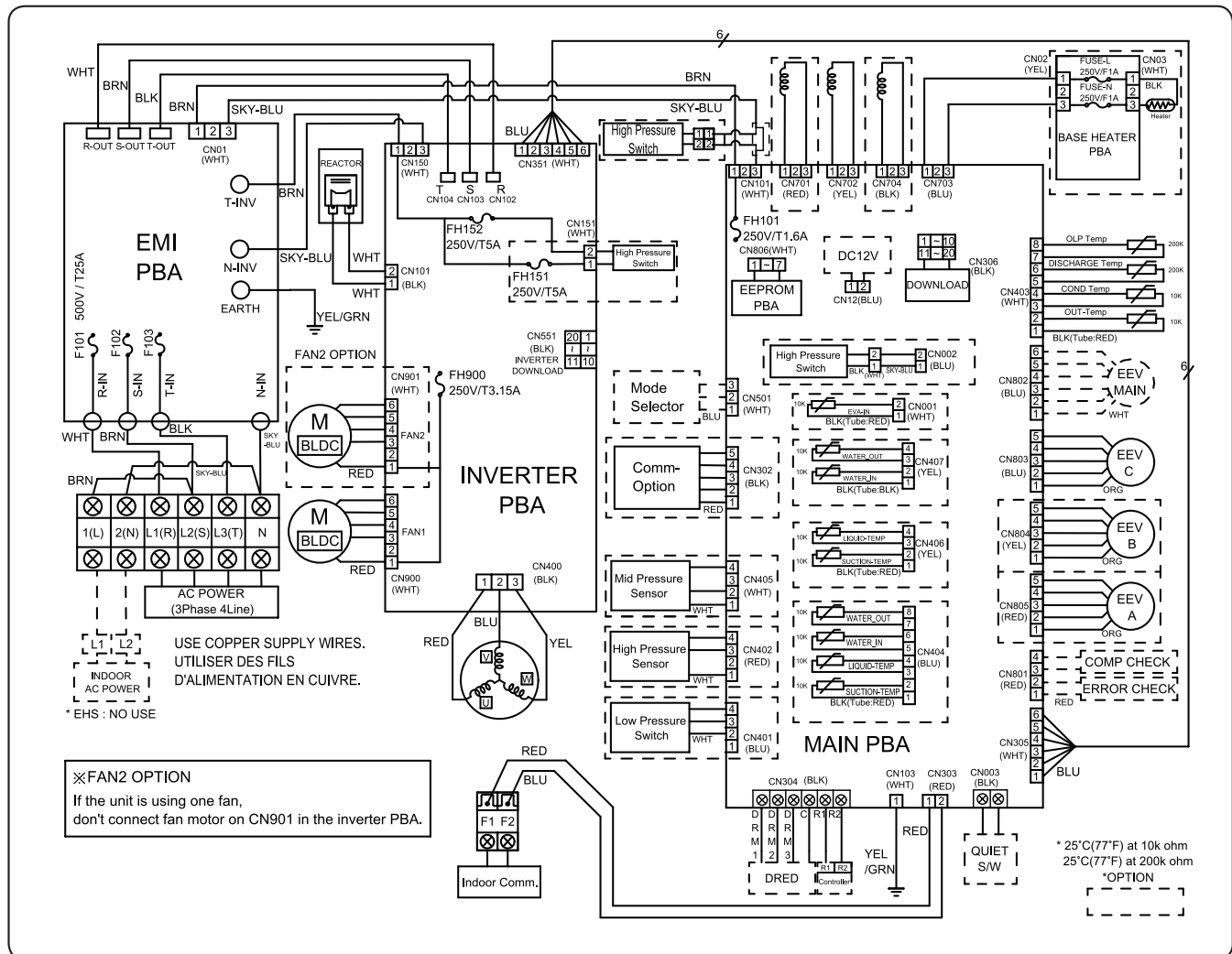
NOTE

- 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, : The wire quantity

4. Electrical Wiring Diagram

Outdoor Units

AC100/120/140RXADNG/EU



DRED PCB	Printed circuit board(DRED)	BASE HEATER PBA	Printed circuit board(BASE HEATER)	M-BLDC	BLDC Motor
EEV	Electronic Expansion Valve	OUT-Temp(10K)	Thermistor AMBIENT	COND Temp(10K)	Thermistor DISCHARGE
DISCHARGE Temp(200K)	Thermistor CONDENSOR	OLP Temp(200K)	Thermistor OLP		

NOTE

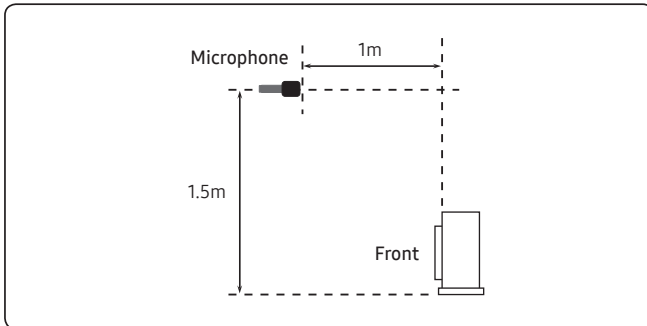
- This wiring diagram applies only to the outdoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor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

5. Sound Data

Outdoor Units

Sound Pressure level

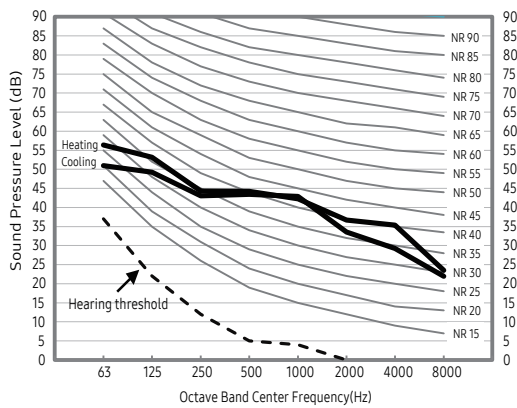
Unit: dB(A)



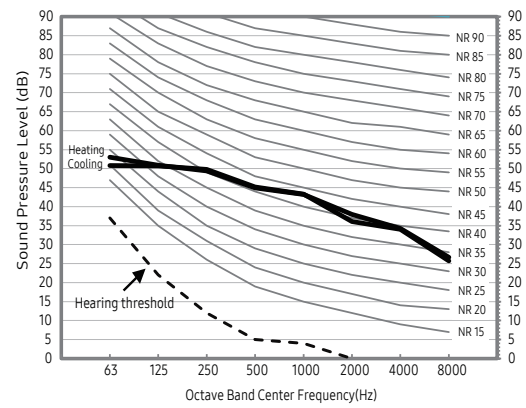
Model	Cooling	Heating
AC026RXADKG/EU	46	47
AC035RXADKG/EU	48	48
AC052RXADKG/EU	48	48
AC071RXADKG/EU	49	51

- NR Curve

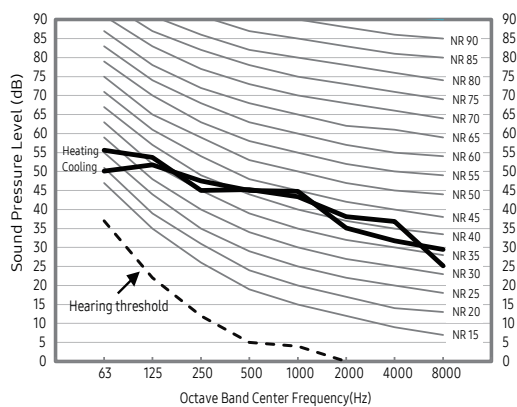
1) AC026RXADKG/EU



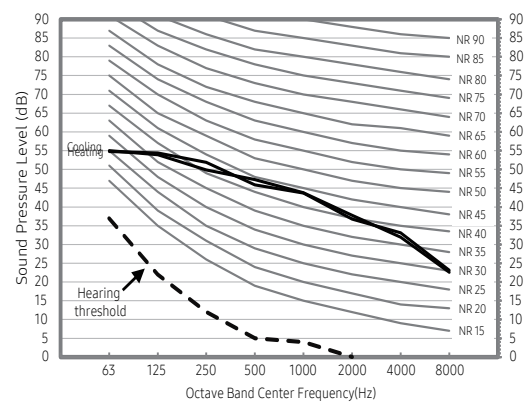
2) AC035RXADKG/EU



3) AC052RXADKG/EU



4) AC071RXADKG/EU



NOTE

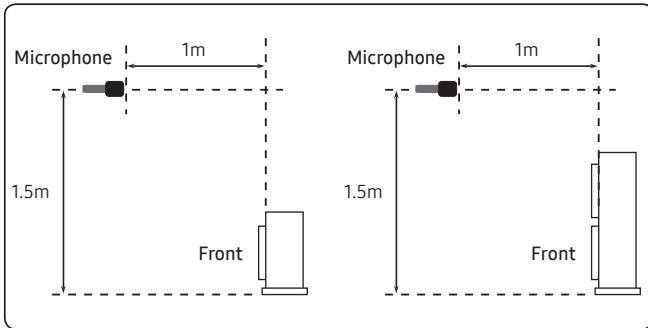
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dB(A) = A weighted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

5. Sound Data

Outdoor Units

Sound Pressure level

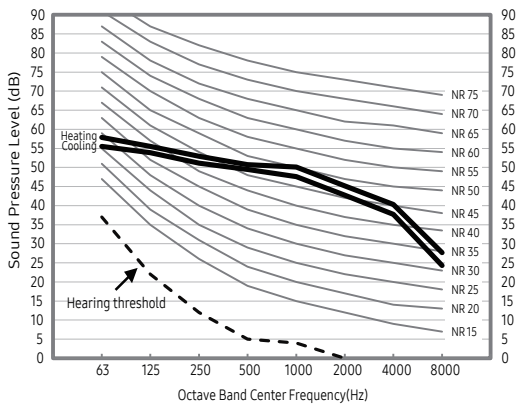
Unit: dB(A)



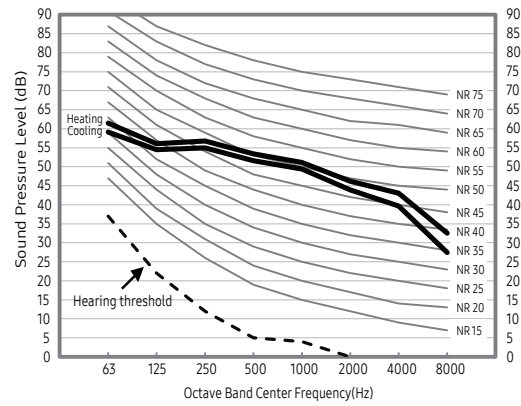
Model	Cooling	Heating
AC100RXAD*G/EU	52	54
AC120RXAD*G/EU	54	56
AC140RXAD*G/EU	53	54

- NR Curve

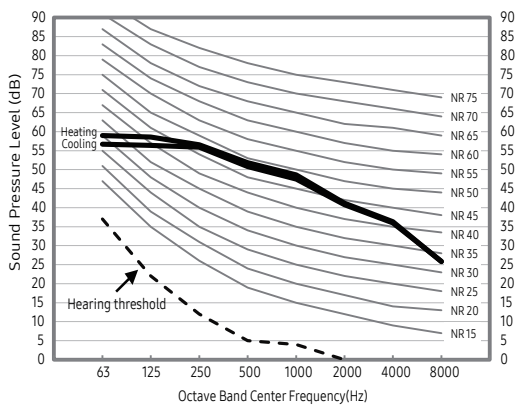
5) AC100RXAD*G/EU



6) AC120RXAD*G/EU



7) AC140RXAD*G/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

5. Sound Data

Outdoor Units

Sound Power level

NOTE

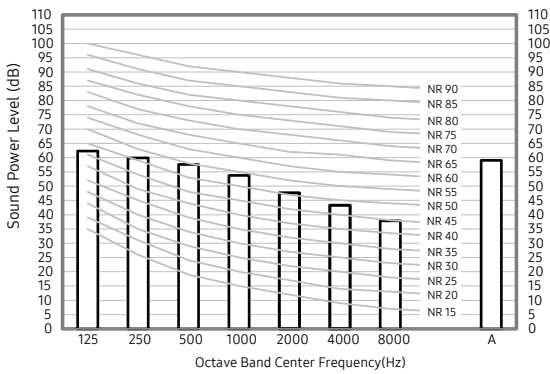
Unit: dB(A)

- 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.

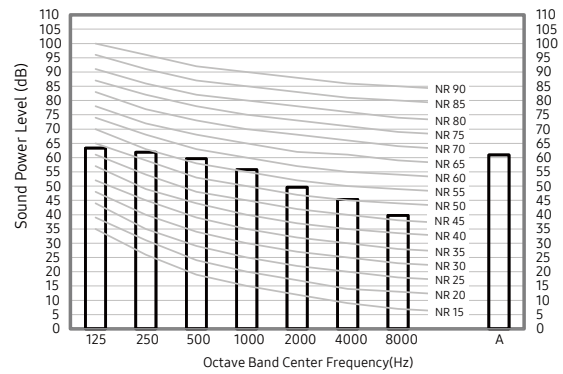
Model	Power
AC026RXADKG/EU	59
AC035RXADKG/EU	61
AC052RXADKG/EU	62
AC071RXADKG/EU	65

• NR Curve

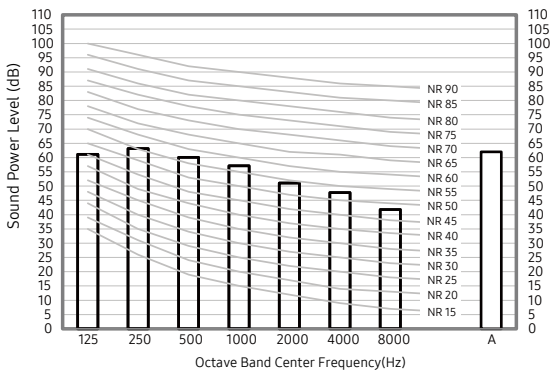
1) AC026RXADKG/EU



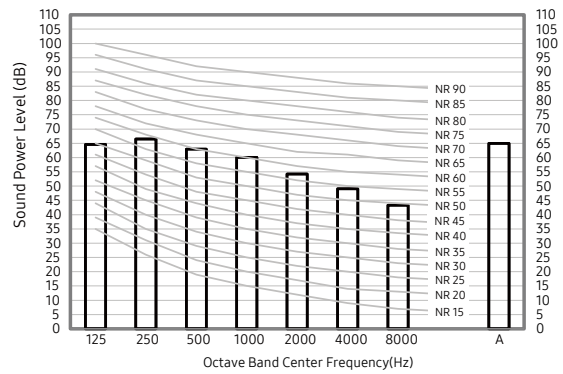
2) AC035RXADKG/EU



3) AC052RXADKG/EU



4) AC071RXADKG/EU



5. Sound Data

Outdoor Units

Sound Power level

NOTE

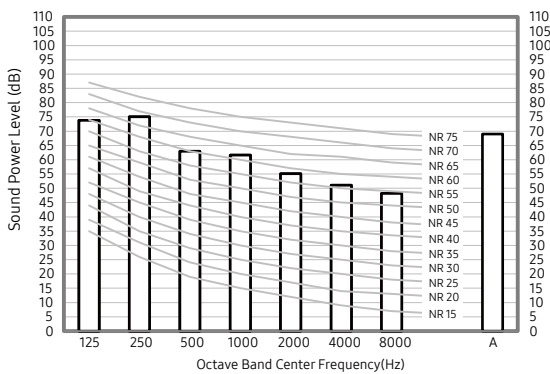
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

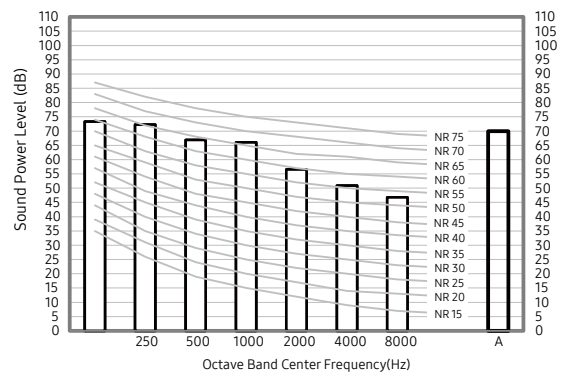
Model	Power
AC100RXAD*G/EU	69
AC120RXAD*G/EU	70
AC140RXAD*G/EU	69

- NR Curve

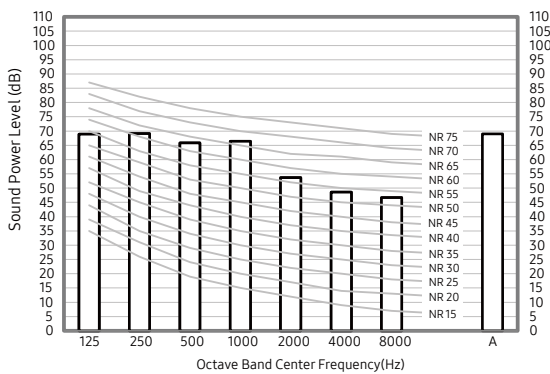
5) AC100RXAD*G/EU



6) AC120RXAD*G/EU



7) AC140RXAD*G/EU




6. Capacity Correction

Outdoor Units


AC026/035RXADKG/EU

Cooling



		Pipe Length (m)			
		5	10	15	20
Level Difference (m)	30	-	-	-	-
	25	-	-	-	-
	20	-	-	-	-
	15	-	-	-	0.92
	10	-	-	0.95	0.92
	5	-	0.97	0.95	0.92
	0	1	0.97	0.95	0.92
	-5	-	0.96	0.94	0.91
	-10	-	-	0.92	0.90
	-15	-	-	-	0.88
	-20	-	-	-	-
	-25	-	-	-	-
	-30	-	-	-	-

Heating



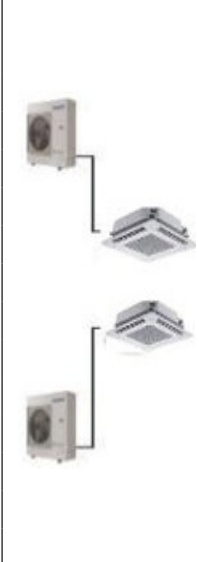
		Pipe Length (m)			
		5	10	15	20
Level Difference (m)	30	-	-	-	-
	25	-	-	-	-
	20	-	-	-	-
	15	-	-	-	0.92
	10	-	-	0.95	0.92
	5	-	0.97	0.95	0.92
	0	1	0.97	0.95	0.92
	-5	-	0.97	0.95	0.92
	-10	-	-	0.95	0.92
	-15	-	-	-	0.92
	-20	-	-	-	-
	-25	-	-	-	-
	-30	-	-	-	-

6. Capacity Correction

Outdoor Units


AC052RXADKG/EU

Cooling



		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-		0.92	0.90
	15	-	-		0.94	0.92	0.90
	10	-		0.96	0.94	0.92	0.90
	5		0.98	0.96	0.94	0.92	0.90
	0	1	0.98	0.96	0.94	0.92	0.90
	-5		0.97	0.95	0.93	0.91	0.89
	-10	-		0.94	0.93	0.91	0.89
	-15	-	-		0.92	0.90	0.88
	-20	-	-	-	-	0.89	0.86
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

Heating




		Pipe Length (m)					
		5	10	15	20	25	30
Level Difference (m)	30	-	-	-	-	-	-
	25	-	-	-	-	-	-
	20	-	-	-	-	0.94	0.92
	15	-	-	-	0.95	0.94	0.92
	10	-	-	0.97	0.95	0.94	0.92
	5	-	0.98	0.97	0.95	0.94	0.92
	0	1	0.98	0.97	0.95	0.94	0.92
	-5	-	0.98	0.97	0.95	0.94	0.92
	-10	-	-	0.97	0.95	0.94	0.92
	-15	-	-	-	0.95	0.94	0.92
	-20	-	-	-	-	0.94	0.92
	-25	-	-	-	-	-	-
	-30	-	-	-	-	-	-

6. Capacity Correction

Outdoor Units


AC071/100/120RXAD*G/EU

Cooling



		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	0.93	0.92	0.91	0.90
	25	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	20	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	15	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	10	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	5	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0	1	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-5	-	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
	-10	-	-	0.97	0.96	0.95	0.94	0.92	0.91	0.90	0.88
	-15	-	-	-	0.95	0.95	0.93	0.92	0.91	0.89	0.88
	-20	-	-	-	-	0.94	0.93	0.92	0.90	0.89	0.87
	-25	-	-	-	-	-	0.92	0.91	0.90	0.88	0.86
	-30	-	-	-	-	-	-	0.91	0.89	0.88	0.85

Heating




		Pipe Length (m)									
		5	10	15	20	25	30	35	40	45	50
Level Difference (m)	30	-	-	-	-	-	-	0.95	0.94	0.93	0.92
	25	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92
	20	-	-	-	-	0.96	0.96	0.95	0.94	0.93	0.92
	15	-	-	-	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	10	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	5	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	0	1	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	-5	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	-10	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	-15	-	-	-	0.97	0.96	0.96	0.95	0.94	0.93	0.92
	-20	-	-	-	-	0.96	0.96	0.95	0.94	0.93	0.92
	-25	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92
	-30	-	-	-	-	-	-	0.95	0.94	0.93	0.92

6. Capacity Correction


Outdoor Units

AC140RXAD*G/EU

Cooling

		Pipe Length (m)															
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
	Level Difference (m)	30	-	-	-	-	-	-	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		25	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		20	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		15	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		10	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		5	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		0	1	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
		-5	-	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
		-10	-	-	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
		-15	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.85
		-20	-	-	-	-	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
		-25	-	-	-	-	-	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.86	0.83
-30	-	-	-	-	-	-	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.85	0.82		

Heating

		Pipe Length (m)															
		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
	Level Difference (m)	30	-	-	-	-	-	-	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		25	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		20	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		15	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		10	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		5	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		0	1	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		-5	-	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		-10	-	-	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		-15	-	-	-	0.98	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		-20	-	-	-	-	0.97	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
		-25	-	-	-	-	-	0.96	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90
-30	-	-	-	-	-	-	0.96	0.95	0.94	0.94	0.93	0.92	0.91	0.91	0.90		

7. Operation Range

AC026/035RXADKG/EU

Mode	Outdoor Unit	Indoor Unit	Indoor Unit
	Temperature(DB)	Temperature(DB)	Humidity(RH)
Cooling	-15°C ~ 46°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	30°C or less	-
Drying	-15°C ~ 46°C	18°C ~ 32°C	80% or less

AC052/071/100/120RXAD*G/EU

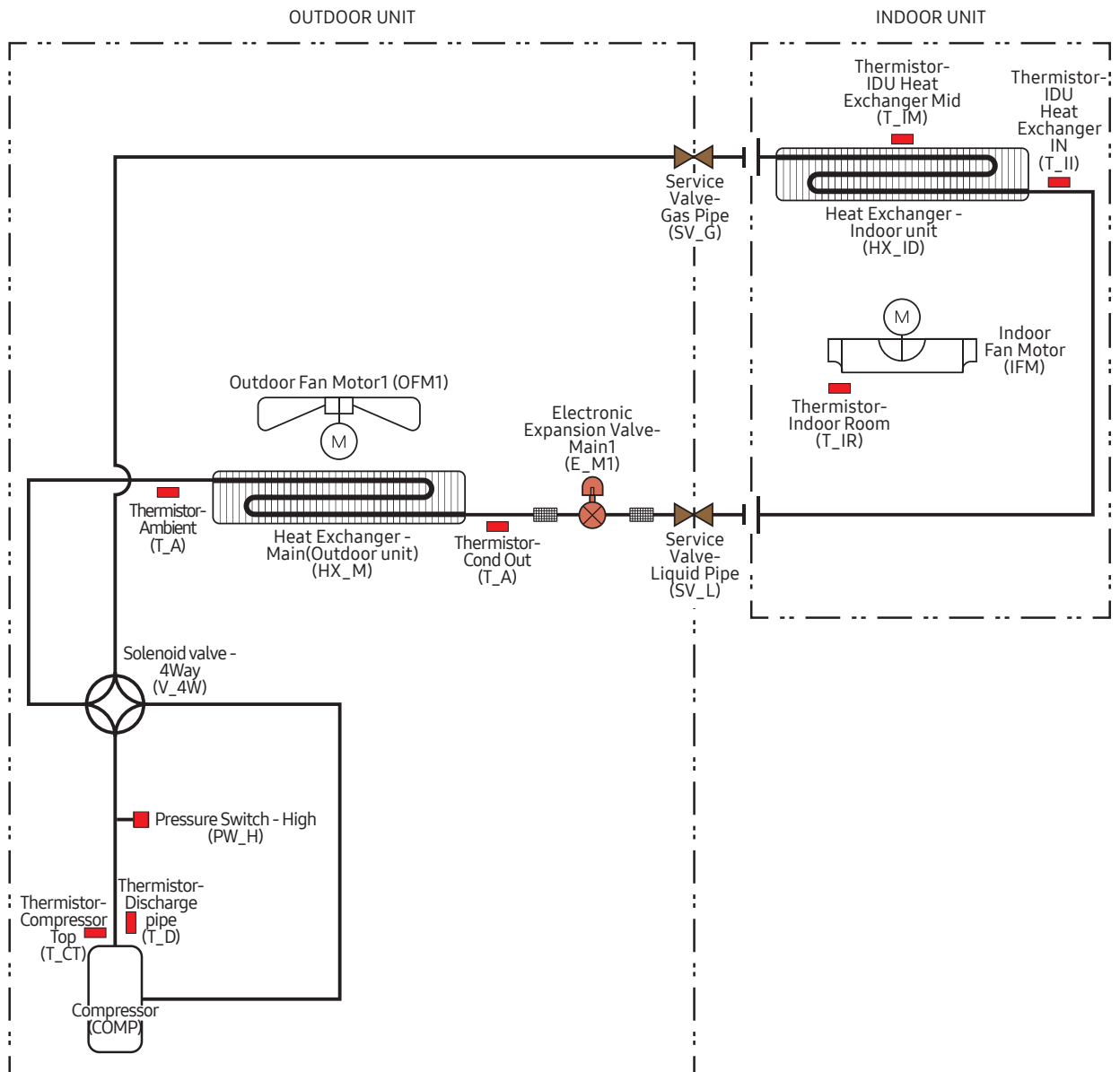
Mode	Outdoor Unit	Indoor Unit	Indoor Unit
	Temperature(DB)	Temperature(DB)	Humidity(RH)
Cooling	-15°C ~ 50°C	18°C ~ 32°C	80% or less
Heating	-20°C ~ 24°C	30°C or less	-
Drying	-15°C ~ 50°C	18°C ~ 32°C	80% or less

NOTE


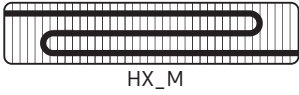
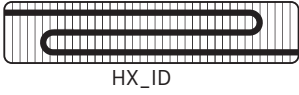












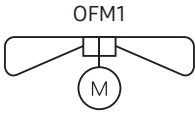
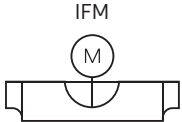

- The assumed installation conditions are follows
 - The pipe length(including elbow) is 5 m.
 - The level difference is 0 m.

8. Piping Diagram

AC026RNNDKG/EU+AC026RXADKG/EU
 AC026RNJDKG/EU+AC026RXADKG/EU
 AC035RNNDKG/EU+AC035RXADKG/EU
 AC035RNJDKG/EU+AC035RXADKG/EU

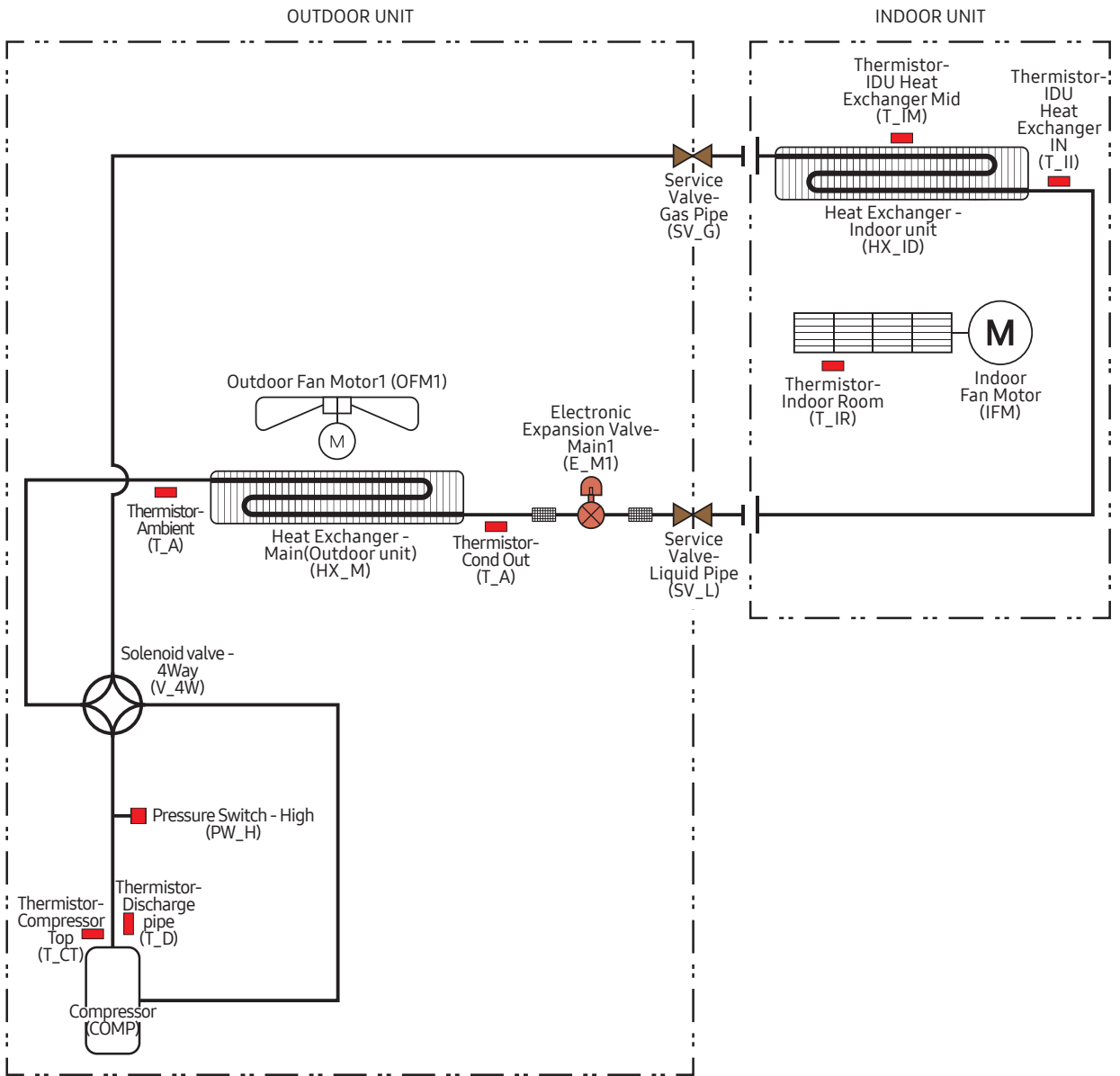


8. Piping Diagram


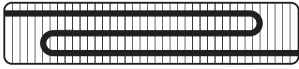













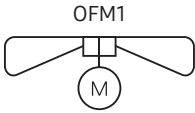
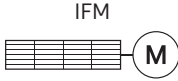

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service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

8. Piping Diagram

AC026RN1DKG/EU+AC026RXADKG/EU
 AC026RNADKG/EU+AC026RXADKG/EU
 AC026TNXDKG/EU+AC026RXADKG/EU
 AC035RN1DKG/EU+AC035RXADKG/EU
 AC035RNADKG/EU+AC035RXADKG/EU
 AC035TNXDKG/EU+AC035RXADKG/EU

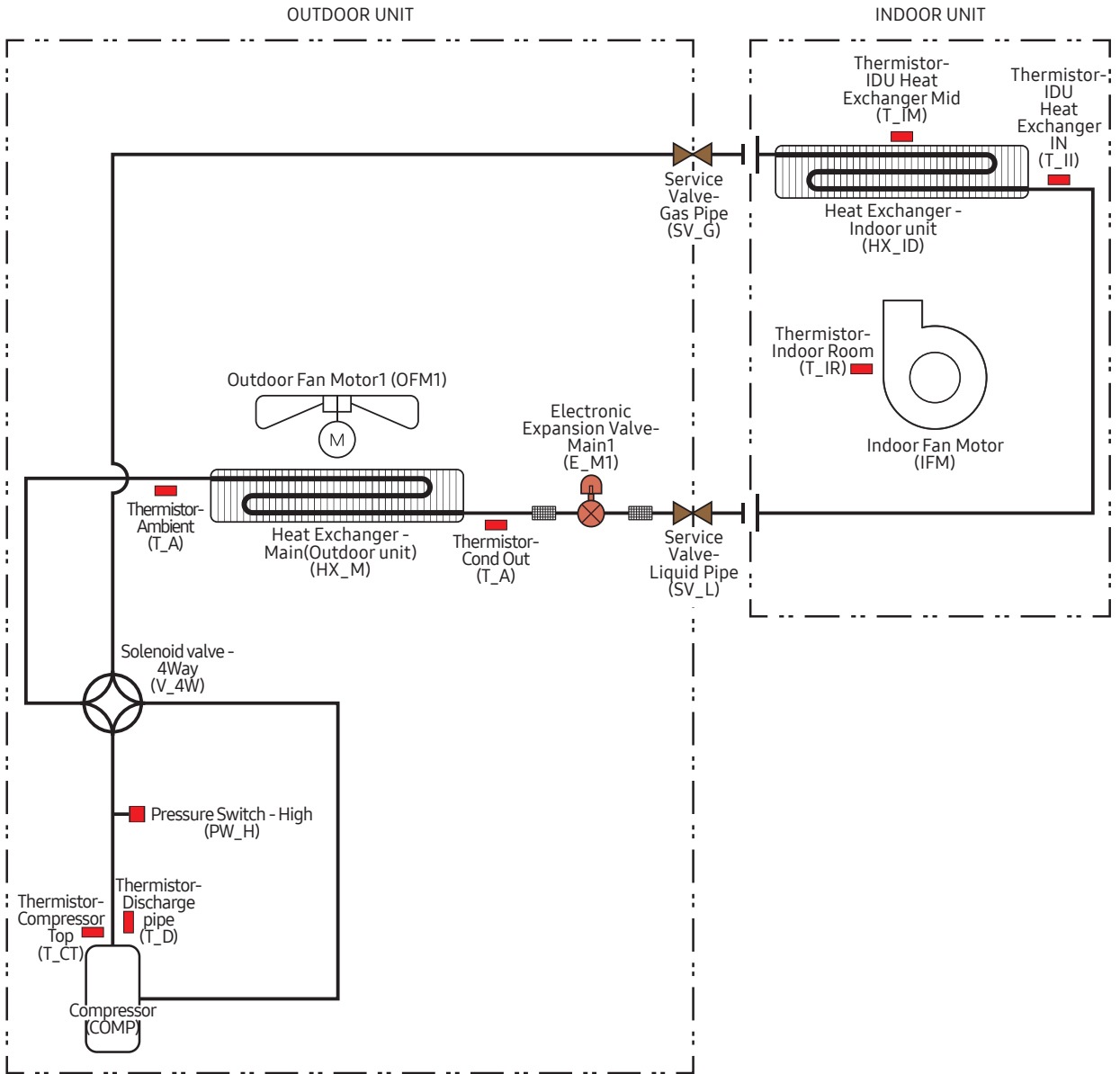


8. Piping Diagram


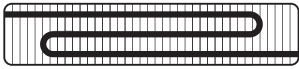
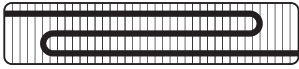












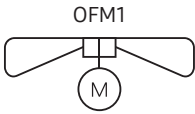


Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service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

8. Piping Diagram

AC026RNLDKG/EU+AC026RXADKG/EU
 AC026BNLDKG/EU+AC026RXADKG/EU
 AC035RNLDKG/EU+AC035RXADKG/EU
 AC035BNLDKG/EU+AC035RXADKG/EU
 AC035RNMDKG/EU+AC035RXADKG/EU

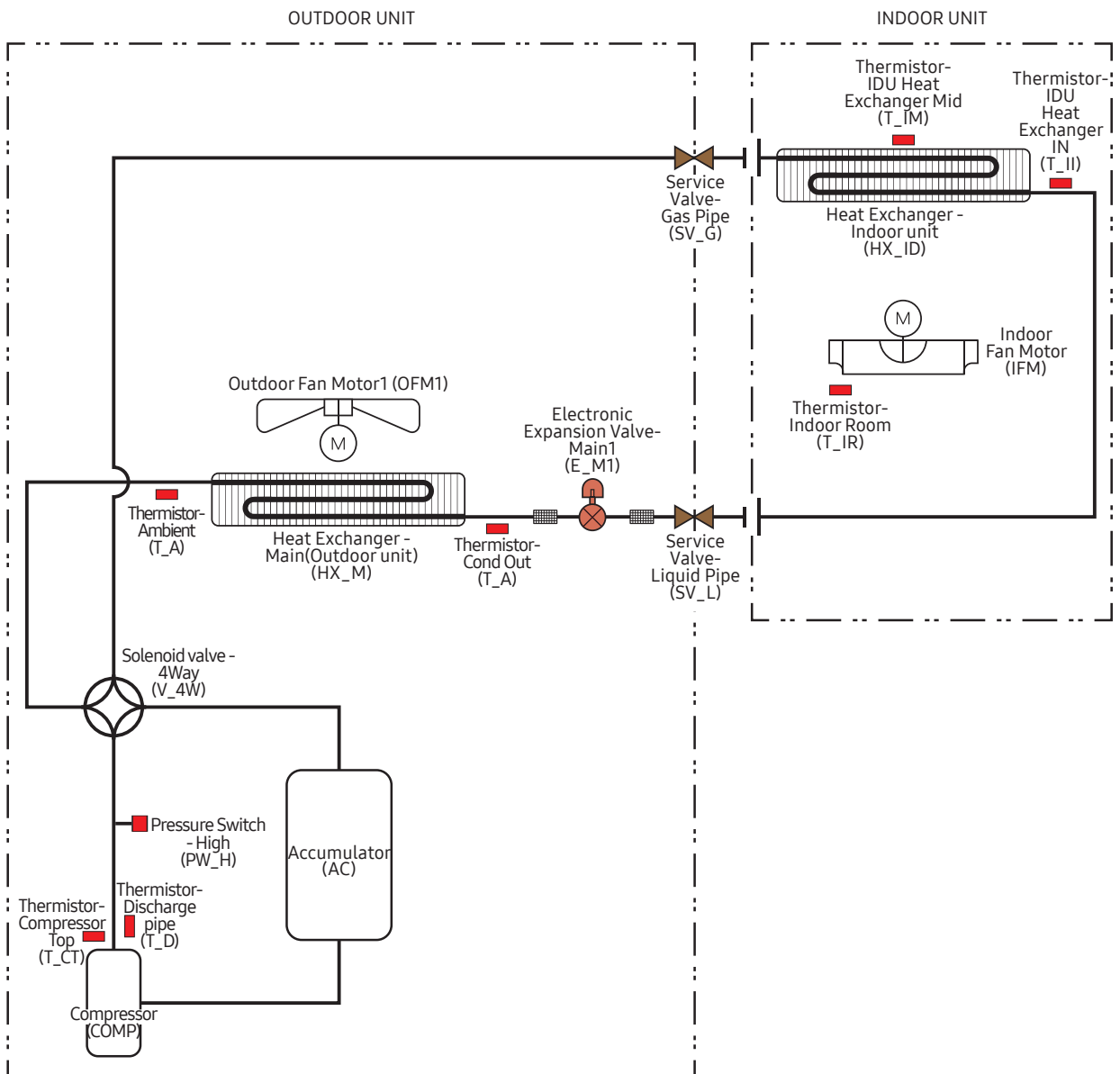


8. Piping Diagram


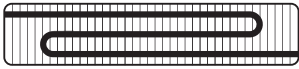
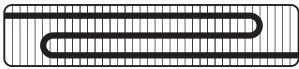













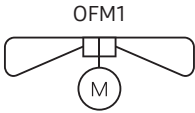
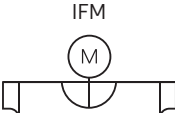

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas Pipe
	 SV_L	Service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

8. Piping Diagram

AC052RNNDKG/EU+AC052RXADKG/EU
 AC052RN4DKG/EU+AC052MXADKG/EU
 AC052RNJDKG/EU+AC052RXADKG/EU
 AC071RNNDKG/EU+AC071MXADKG/EU
 AC071RN4DKG/EU+AC071MXADKG/EU
 AC071RN4PKG/EU+AC071MXADKG/EU

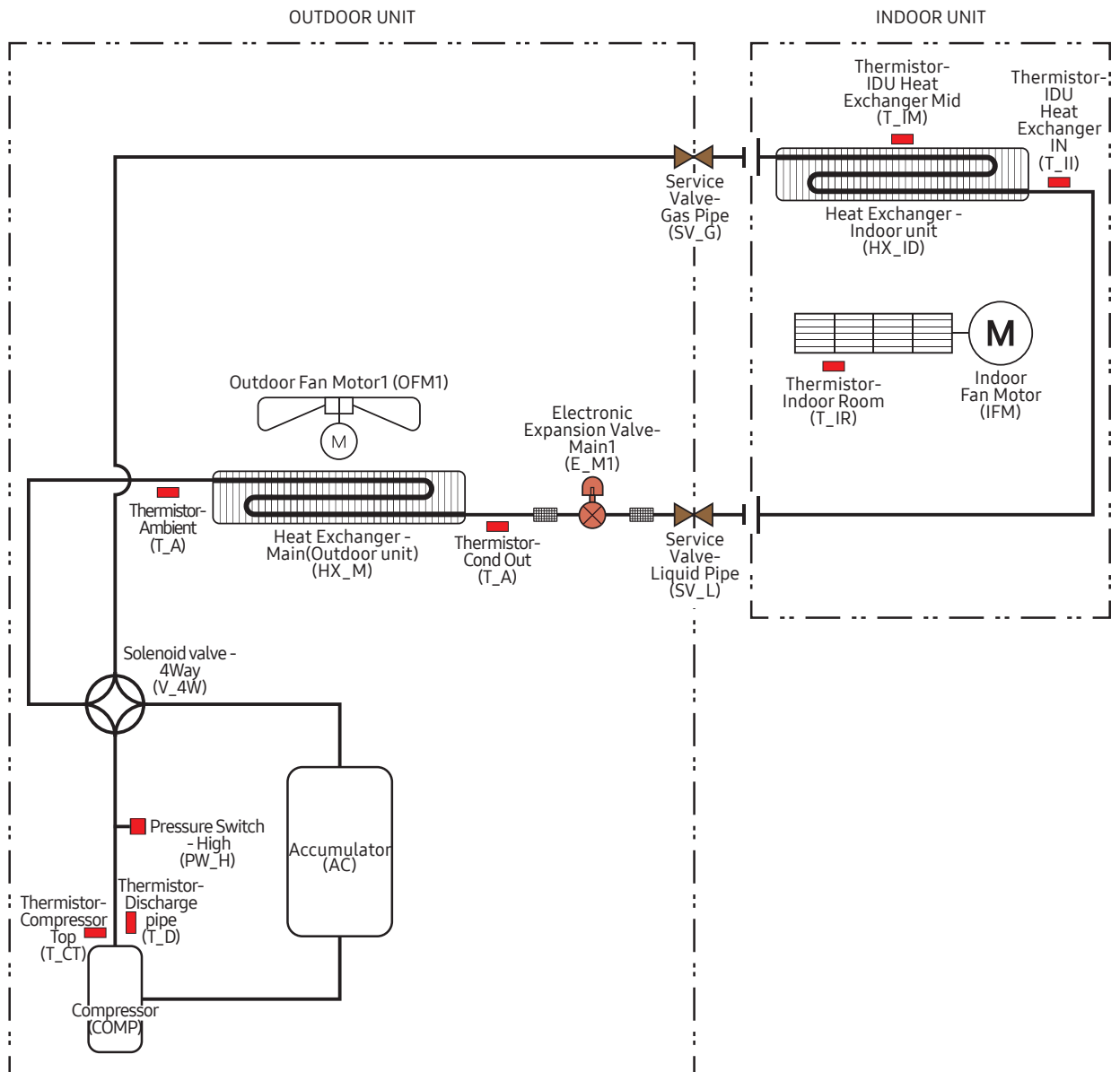


8. Piping Diagram



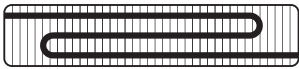













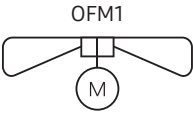


Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC052RNADKG/EU+AC052RXADKG/EU
 AC052TNXDKG/EU+AC052RXADKG/EU
 AC071RNADKG/EU+AC071RXADKG/EU
 AC071TNXDKG/EU+AC071RXADKG/EU

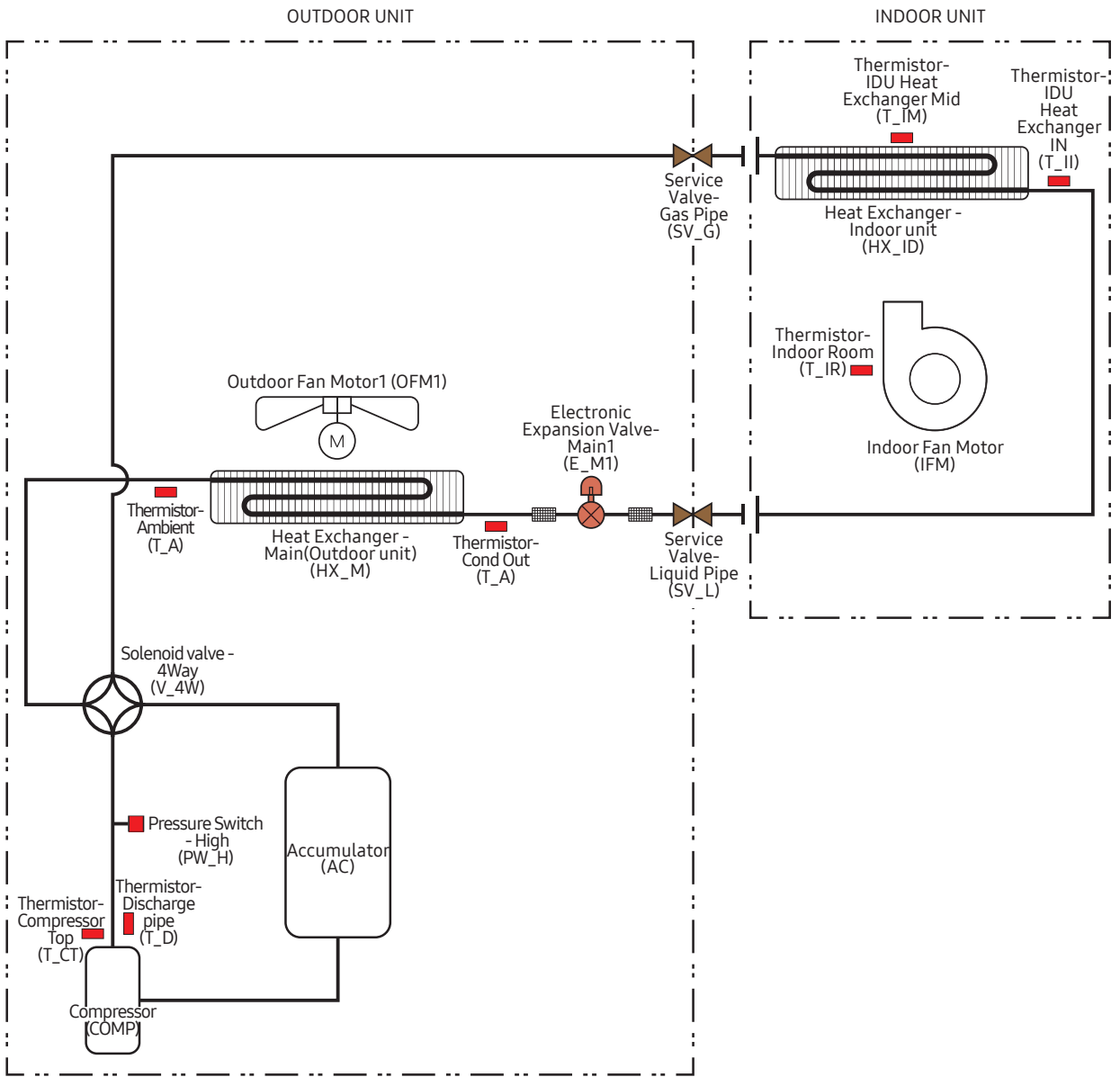


8. Piping Diagram


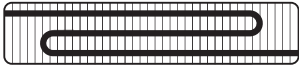














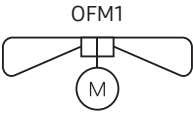


Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC052RNCDKG/EU+AC052RXADKG/EU
 AC052RNMDKG/EU+AC052RXADKG/EU
 AC052RNLDKG/EU+AC052RXADKG/EU
 AC052BNLDKG/EU+AC052RXADKG/EU
 AC071RNCDKG/EU+AC071RXADKG/EU
 AC071RNMDKG/EU+AC071RXADKG/EU
 AC071RNLDKG/EU+AC071RXADKG/EU
 AC071BNLDKG/EU+AC071RXADKG/EU

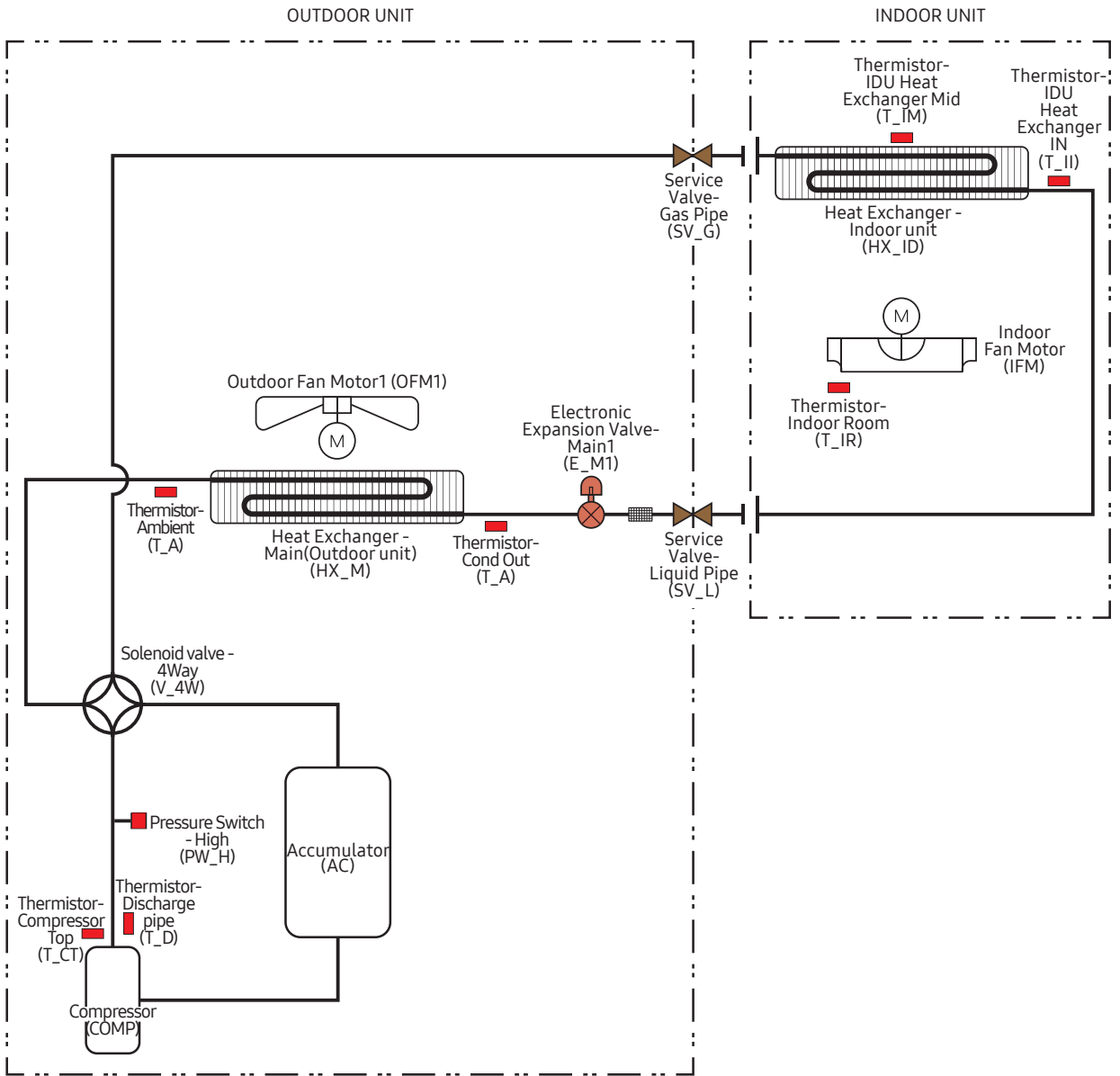


8. Piping Diagram

















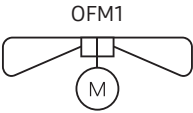
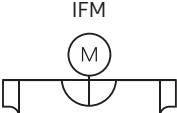

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC100RN4DKG/EU+AC100RXADKG/EU, AC100RN4DKG/EU+AC100RXADNG/EU
 AC100RN4PKG/EU+AC100RXADKG/EU, AC100RN4PKG/EU+AC100RXADNG/EU
 AC120RN4DKG/EU+AC120RXADKG/EU, AC120RN4DKG/EU+AC120RXADNG/EU
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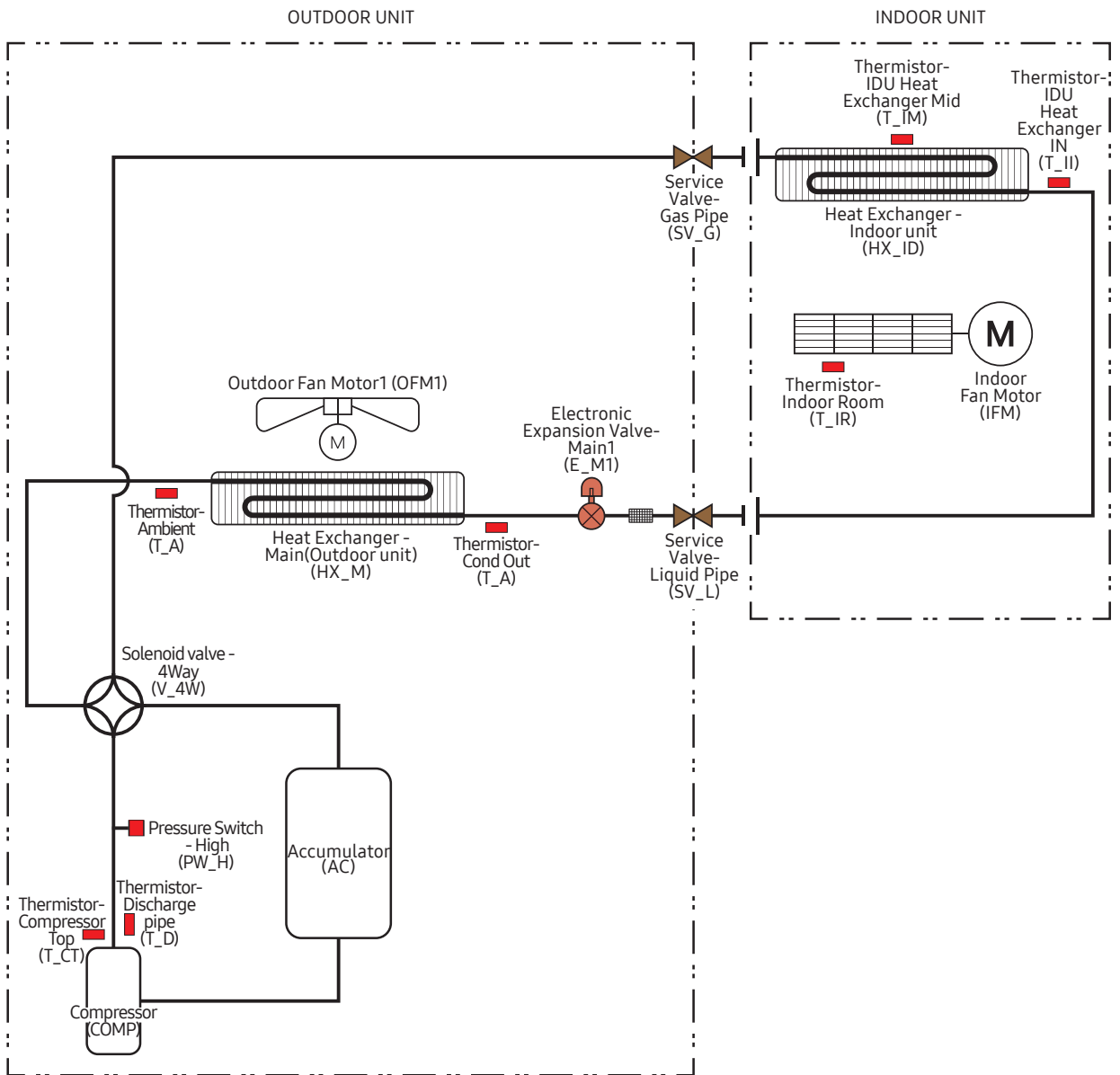


8. Piping Diagram


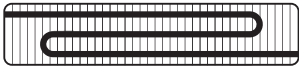
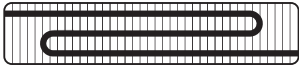













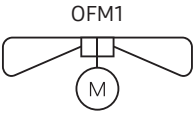
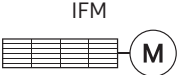

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC100RNTDKG/EU+AC100RXADKG/EU, AC100RNTDKG/EU+AC100RXADNG/EU

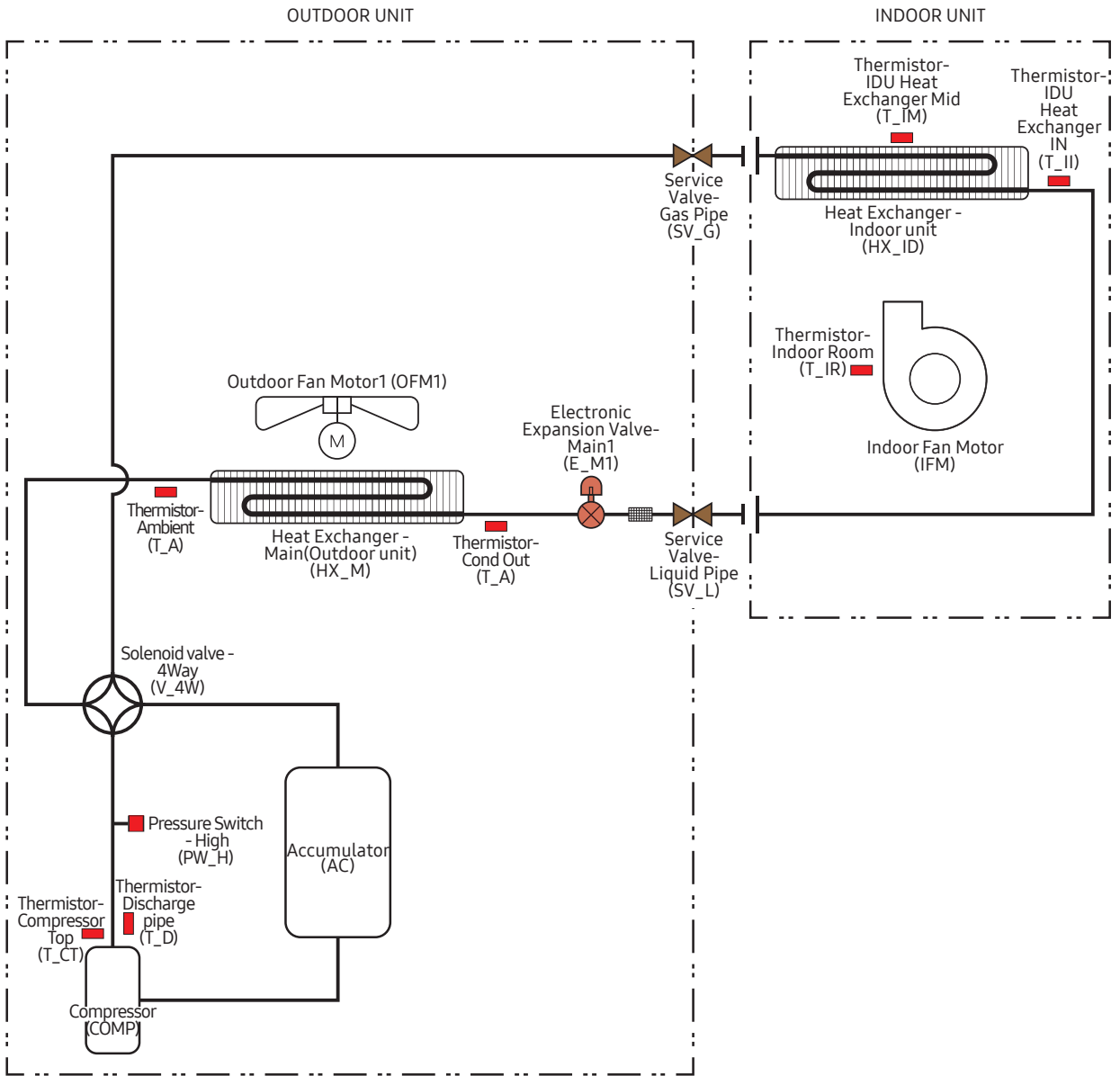


8. Piping Diagram


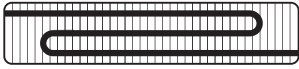














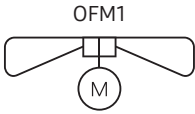


Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC100RNMDKG/EU+AC100RXADKG/EU, AC100RNMDKG/EU+AC100RXADNG/EU
 AC100RNCDKG/EU+AC100RXADKG/EU, AC100RNCDKG/EU+AC100RXADNG/EU
 AC120RNMDKG/EU+AC120RXADKG/EU, AC120RNMDKG/EU+AC120RXADNG/EU
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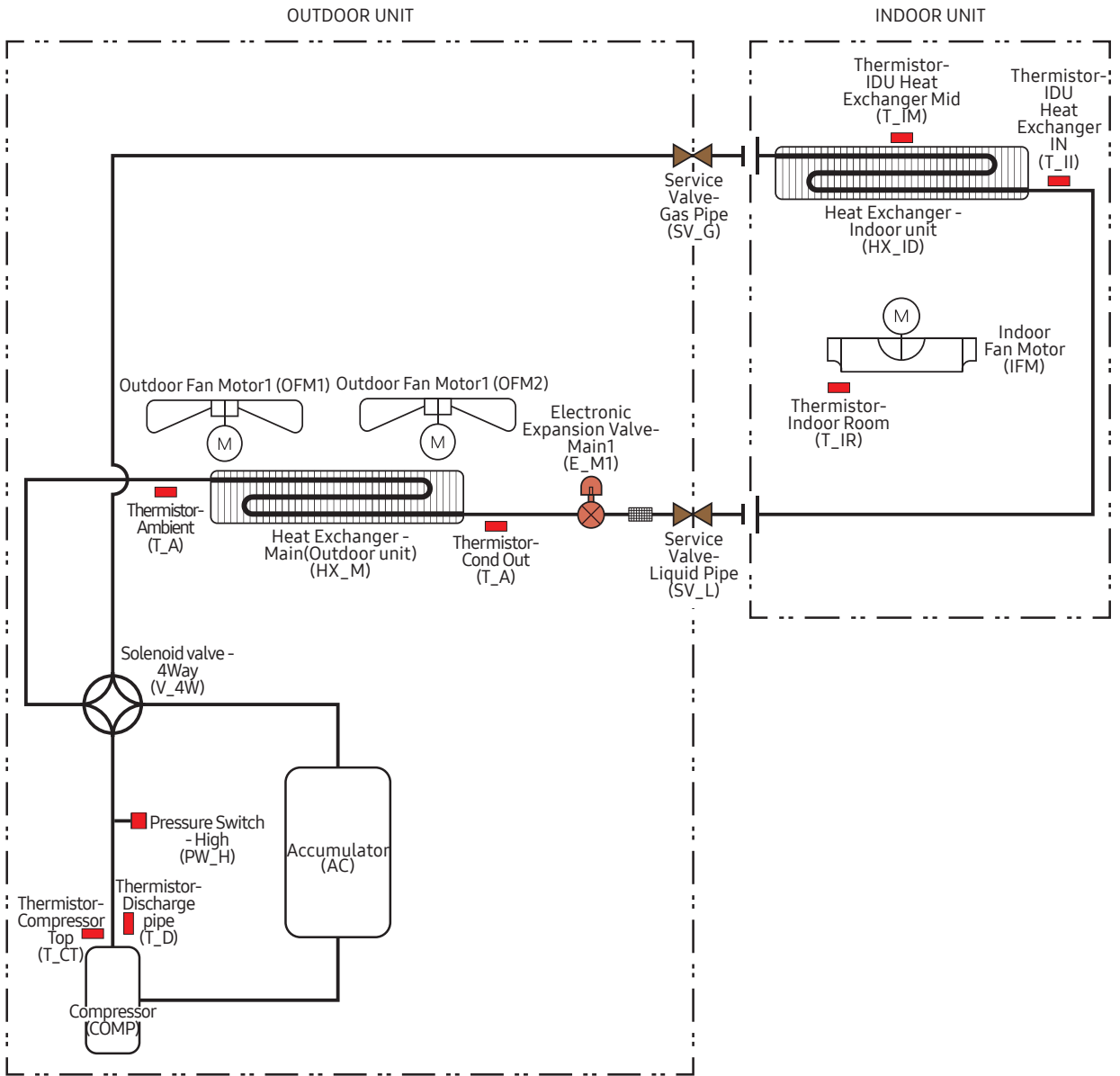


8. Piping Diagram



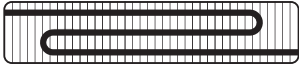













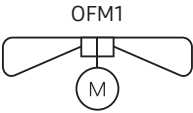
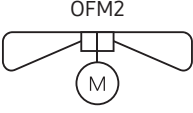
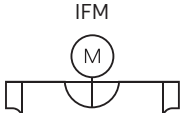

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC100RN4DKG/EU+AC100RXADKG/EU, AC100RN4DKG/EU+AC100RXADNG/EU
 AC100RN4PKG/EU+AC100RXADKG/EU, AC100RN4PKG/EU+AC100RXADNG/EU
 AC120RN4DKG/EU+AC120RXADKG/EU, AC120RN4DKG/EU+AC120RXADNG/EU
 AC120RN4PKG/EU+AC120RXADKG/EU, AC120RN4PKG/EU+AC120RXADNG/EU

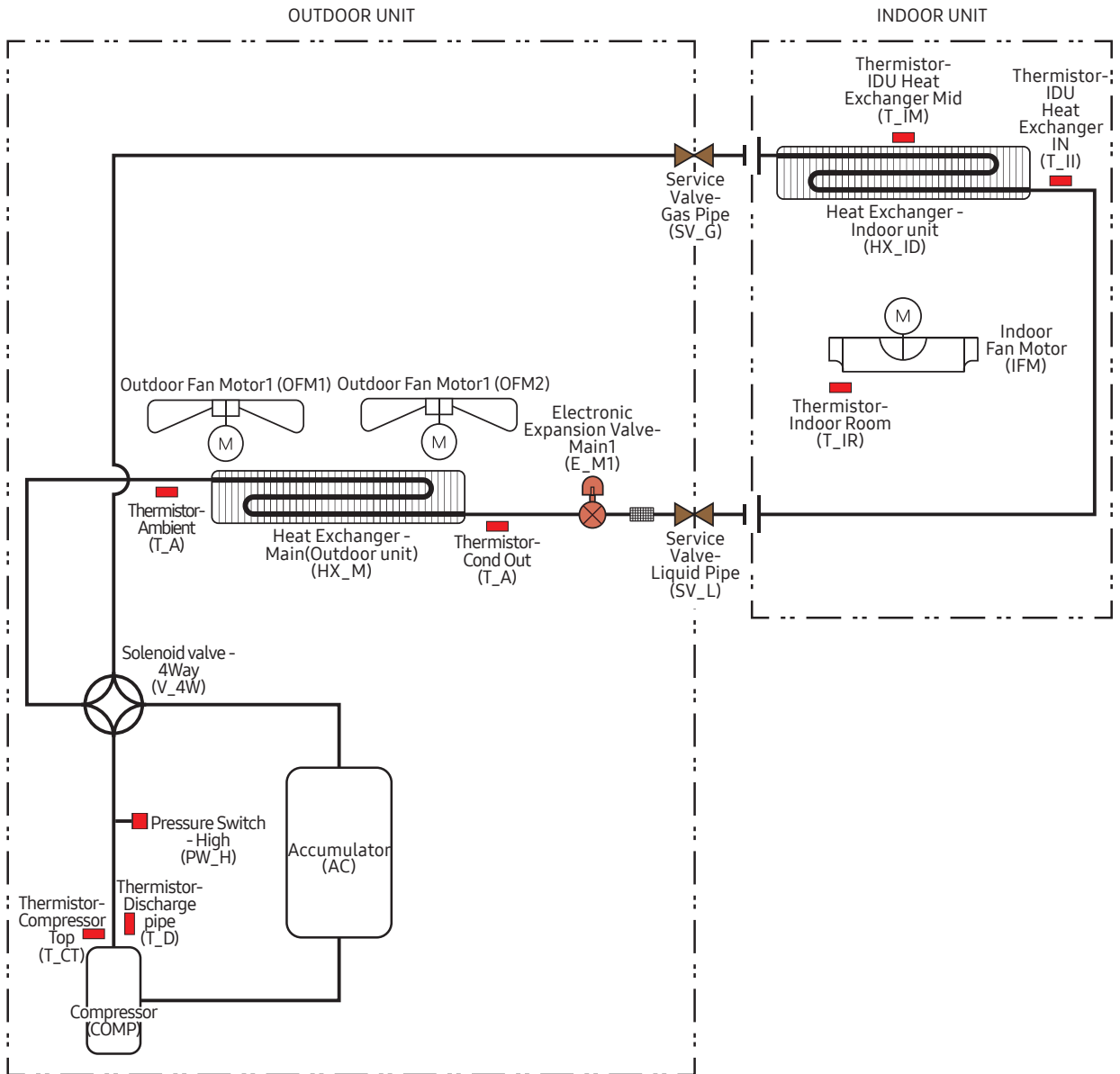


8. Piping Diagram


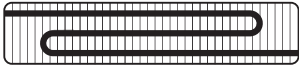














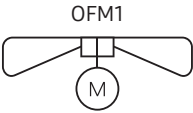
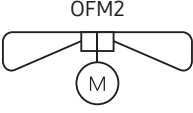
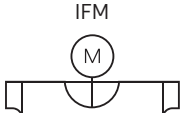

Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	 HX_M	Heat Exchanger - Main (Outdoor unit)
	 HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	 E_M	Electronic Expansion valve - Main
Solenoid Valve	 V_4W	Solenoid valve - 4Way
Valve (etc)	 SV_G	Service Valve - Gas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

8. Piping Diagram

AC140RN4DKG/EU+AC140RXADKG/EU, AC140RN4DKG/EU+AC140RXADNG/EU
 AC140RN4PKG/EU+AC140RXADKG/EU, AC140RN4PKG/EU+AC140RXADNG/EU

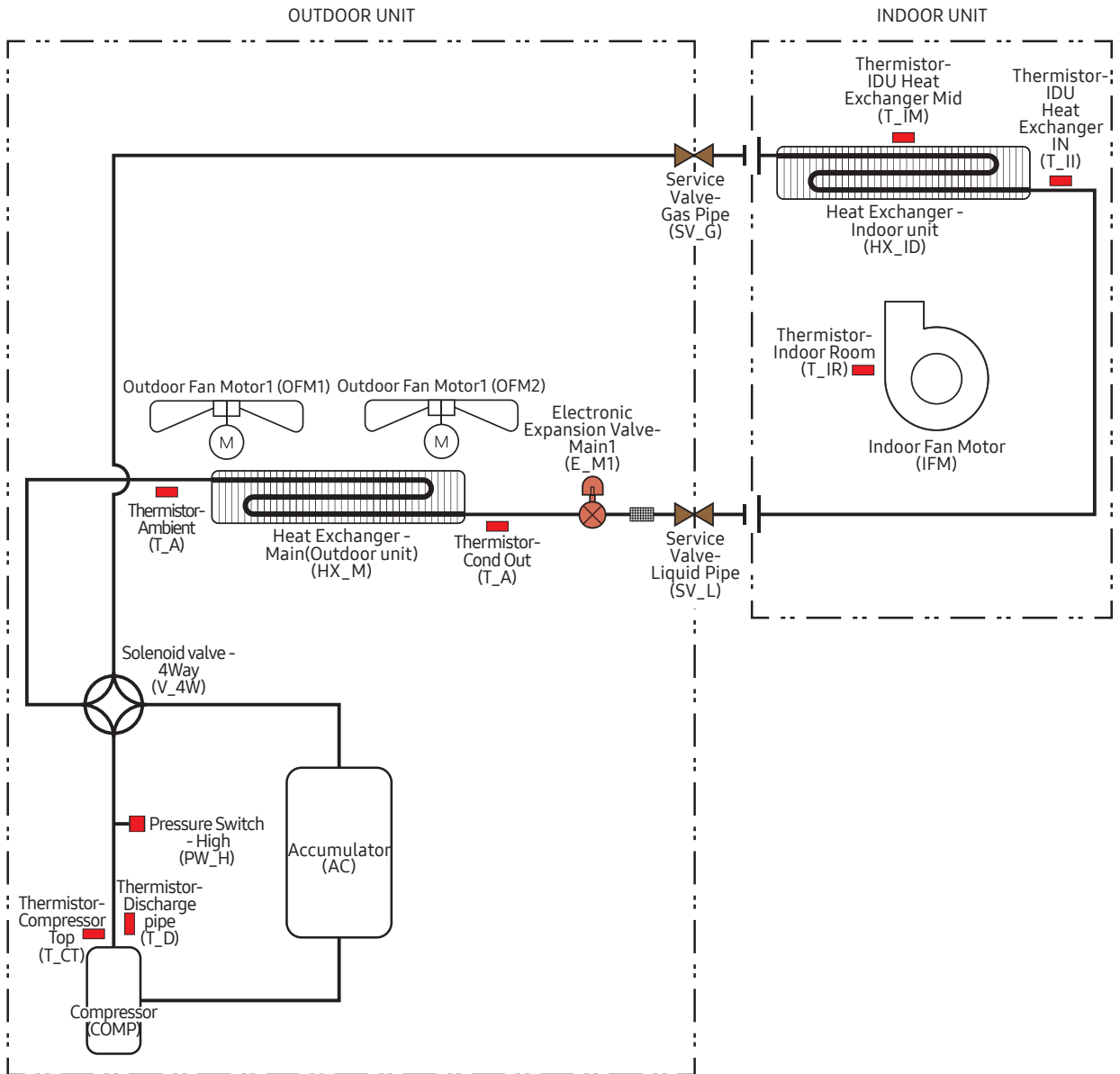


8. Piping Diagram

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

8. Piping Diagram

AC140RNMDKG/EU+AC140RXADKG/EU, AC140RNMDKG/EU+AC140RXADNG/EU
 AC140RNC DKG/EU+AC140RXADKG/EU, AC140RNC DKG/EU+AC140RXADNG/EU



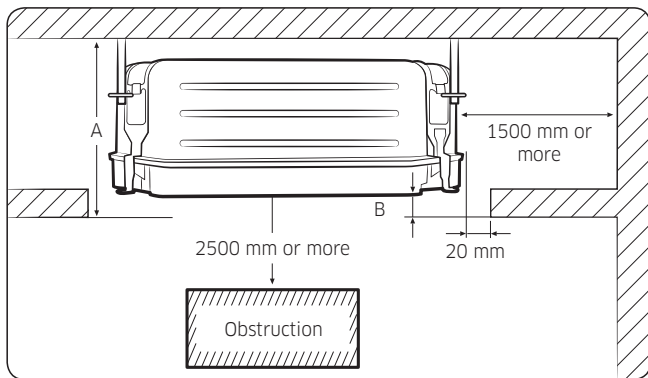
8. Piping Diagram

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

Installation

1. (Wind-Free) 1Way & 4Way Cassette

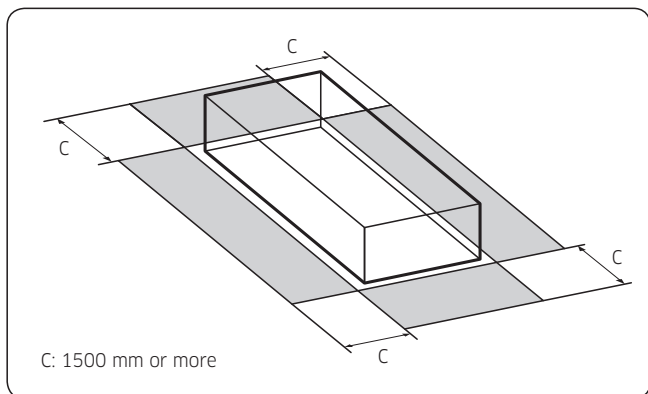
Spacing requirements



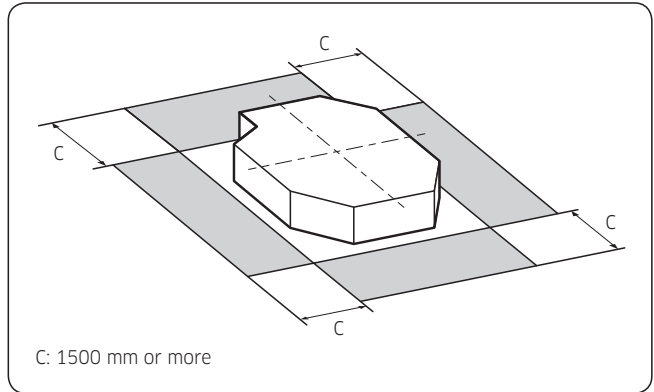
Model	AC026RN1DKG AC035RN1DKG	AC052RN4DKG AC071RN4DKG	AC0100RN4DKG AC0120RN4DKG AC0140RN4DKG
A	170 mm	251 mm	355 mm
B	15 mm	17 mm	17 mm

(Unit: mm)

1 way Cassette

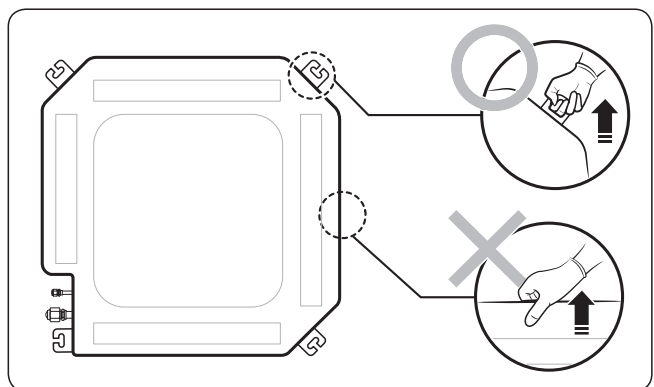


4 way Cassette



⚠ 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 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.



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

⚠ CAUTION

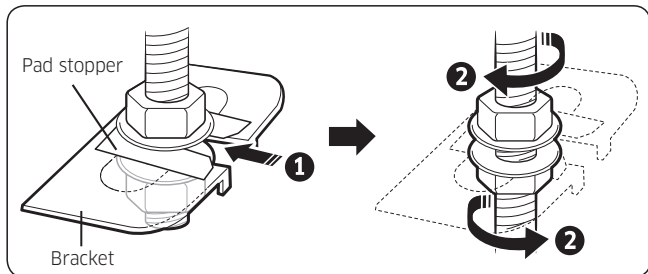
- Make sure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- If the length of the suspension bolt is more than 1.5 m, you are required to prevent vibration.

4 Screw eight pairs of nuts and washers to the suspension bolts, making space for hanging the indoor unit.

⚠ CAUTION

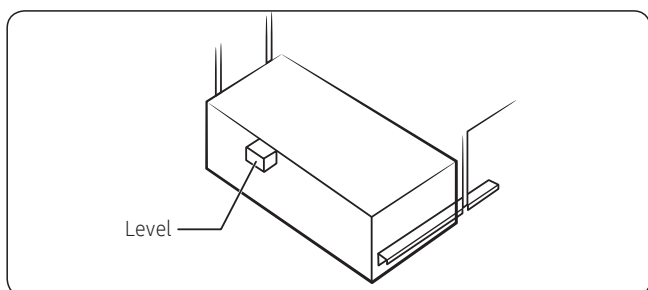
- You must install all of the suspension rods.
- It is important to leave sufficient space in the false ceiling to allow access for maintenance or repairs to the drainage pipe connection, the refrigerant pipe connection, or to remove the unit if necessary.

5 Hang the indoor unit to the suspension bolts between two nuts. Cut a pad stopper and place it on the suspension bolts to hold the washers. Remove the stopper and screw the nuts to fix the unit.



6 Check the level of the indoor unit by using a leveler.

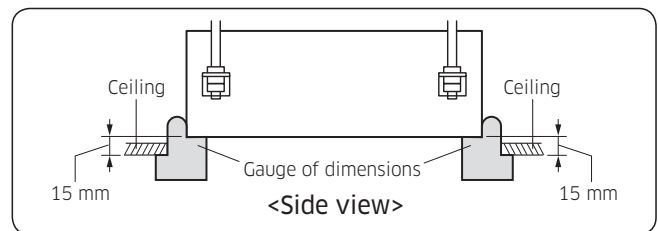
- A tilt of the indoor unit may cause malfunction of a built-in float switch and water leaks.



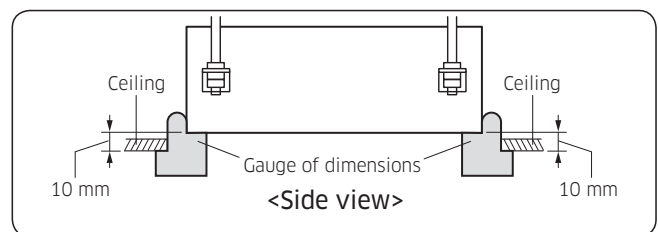
7 Adjust the unit to the appropriate position, taking into account the installation area for the front panel.

- Place the pattern sheet on the indoor unit.
- Adjust the space between the ceiling and the indoor unit by using a dimension gauge.
- Fix the indoor unit securely after adjusting the level of the unit by using a leveller.
- Remove the pattern sheet, connect the other cables, and install the front panel.

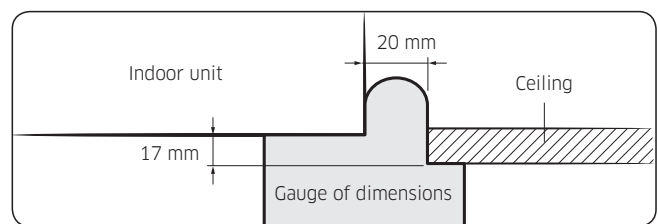
1way Cassette (Standard)



1way Cassette (Wind-Free)



4 way Cassette

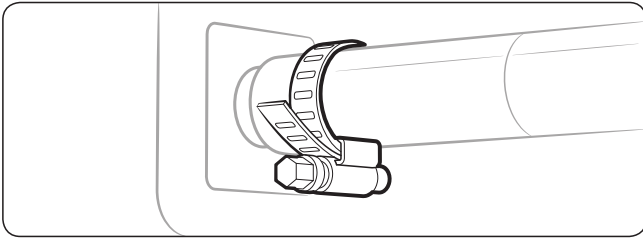


※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

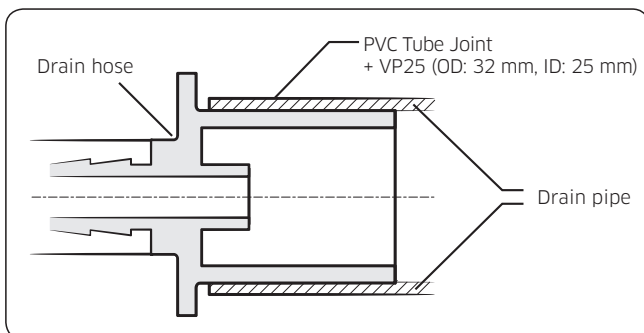
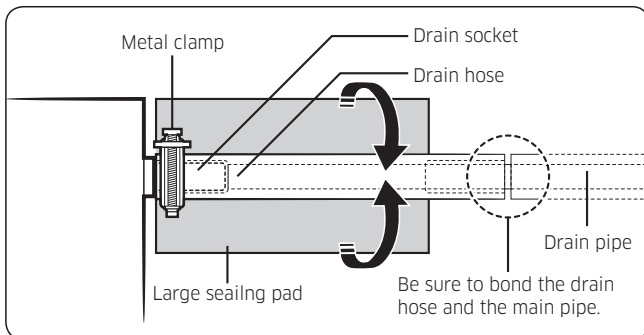
Installation

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.



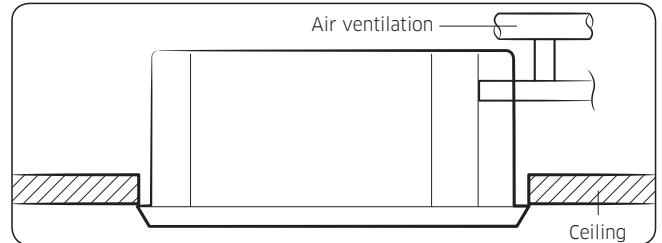
- 3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- 4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
-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



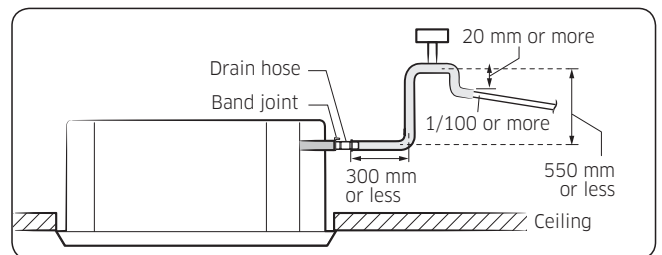
⚠ CAUTION

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

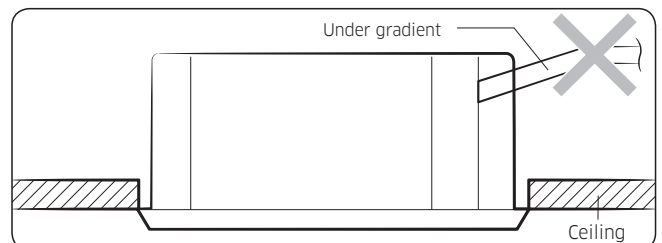
- Install air ventilation to drain condensation smoothly.



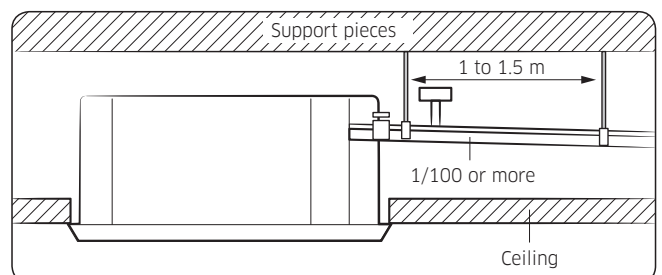
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



- 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.



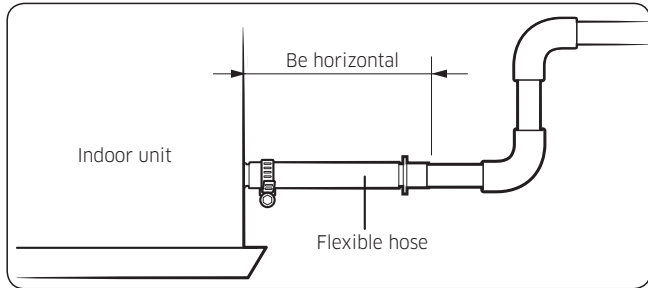
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



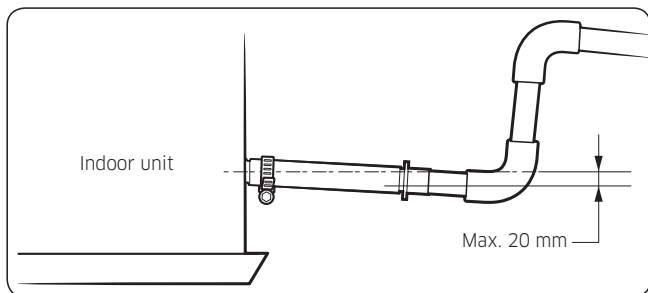
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

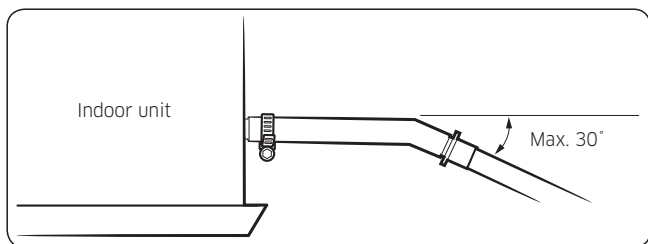
- Install horizontally.



- Max. allowable axis gap.

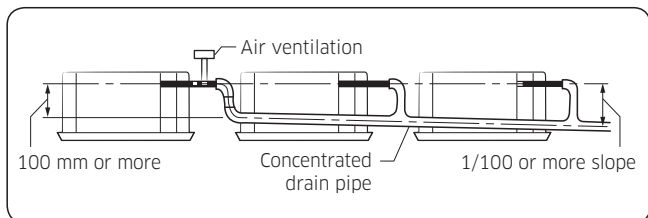


- Max. allowable bending angle.



NOTE

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



Connecting the power and communication cables

⚠ CAUTION

- Always remember to connect the refrigerant pipes before performing the electric connections. When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.
- For the product that uses the R-32 refrigerant, be cautious not to generate a spark by keeping the following requirements:
 - Do not remove the fuses with power on.
 - Do not disconnect the power plug from the wall outlet with power on.
 - It is recommended to locate the outlet in a high position. Place the cords so that they are not tangled.
- 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.

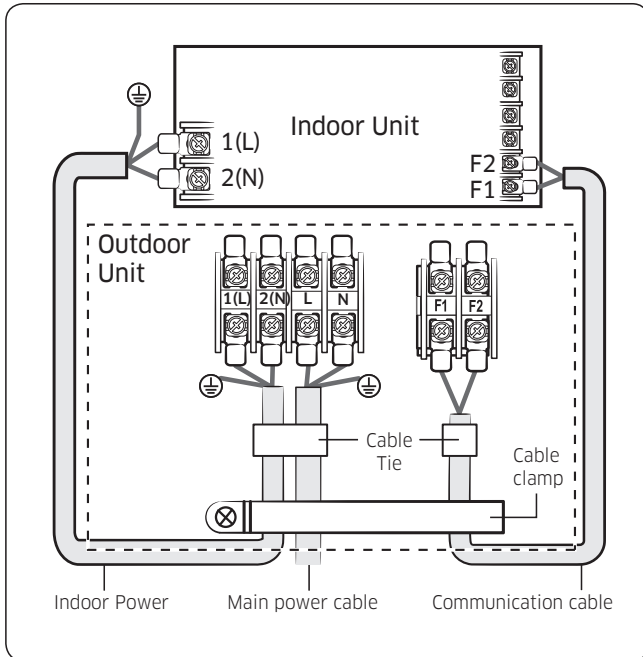
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

- 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.

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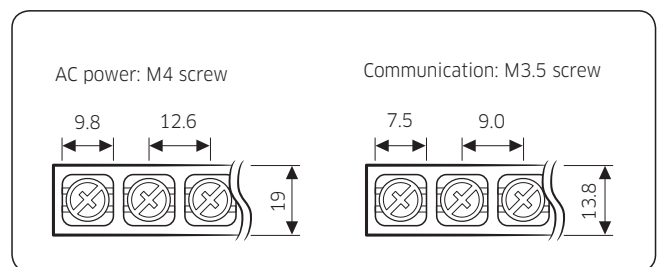
Installation

1 phase

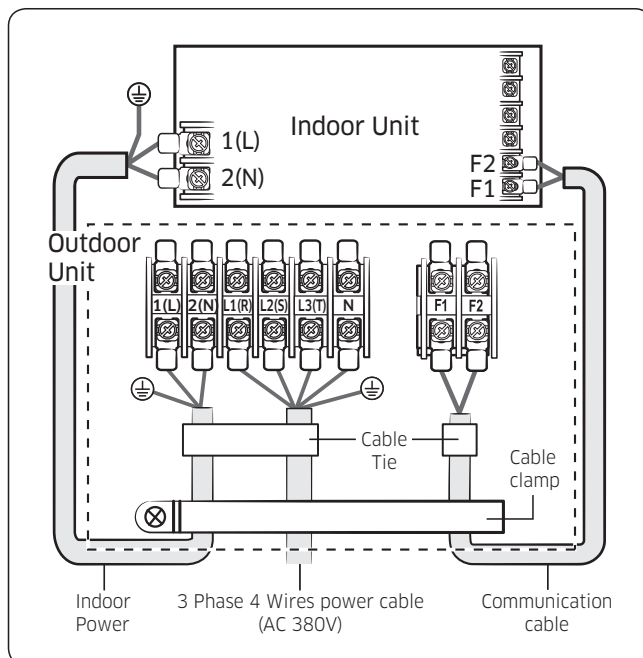


Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	0.75 mm ² ↑, 3 wires
Communication cable		
0.75 mm ² , 2 wires		

(Unit: mm)

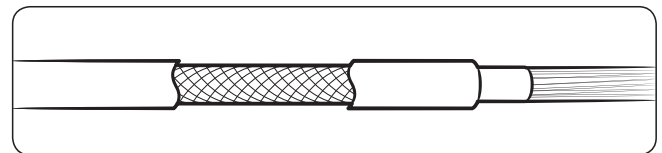


3 phase



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

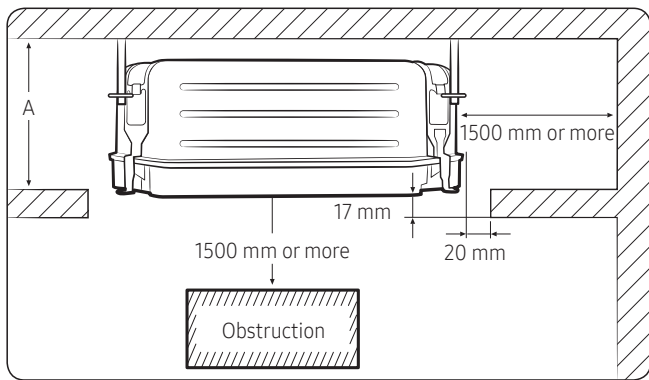
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

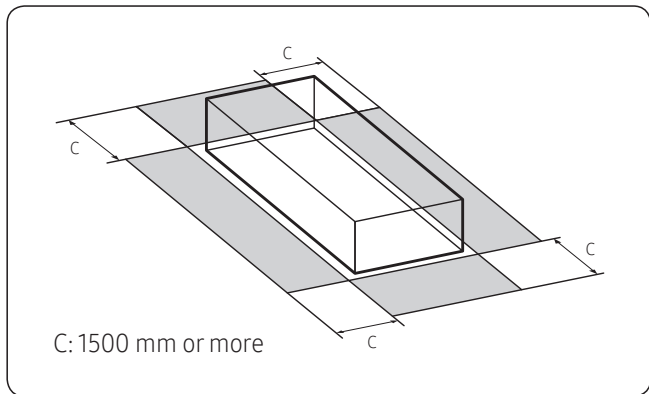
2. (Wind-Free) 4Way Cassette (600 x 600)

Spacing requirements



(Unit: mm)

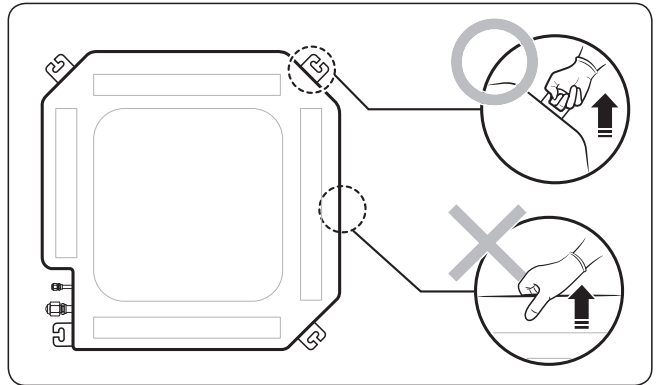
Model	AC026RNNDKG AC035RNNDKG AC052RNNDKG AC071RNNDKG
A	297



⚠ 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.

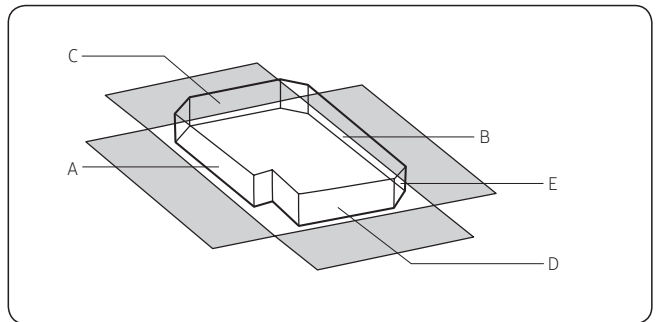
- You must hold the hanger plate on the corner and carry the indoor unit.



Optional: Insulating the body of the indoor unit

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

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



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

📄 NOTE

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

(Unit: mm)

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

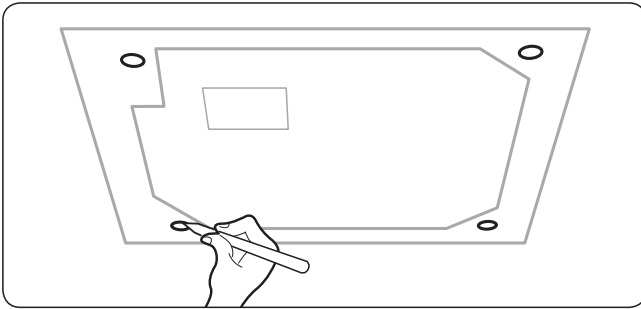
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Installing the indoor unit

When deciding on the location of the air conditioner the following restrictions must be taken into account.

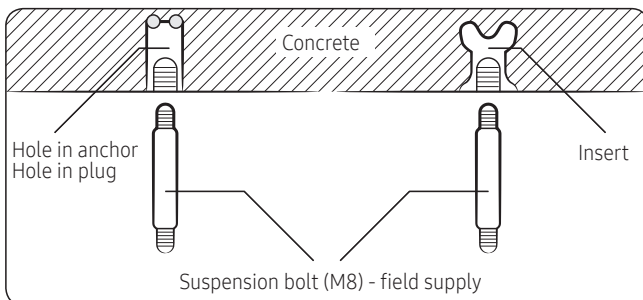
- 1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.



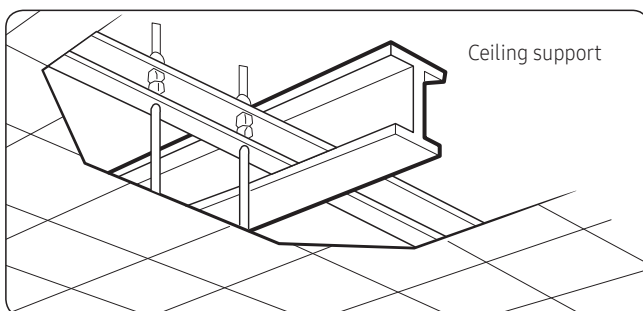
NOTE

- Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes, be sure to maintain the correct dimensions between the markings.

- 2 Insert bolt anchors, use existing ceiling supports or construct a suitable support as shown in figure.



- 3 Install the suspension bolts, depending on the ceiling type.



CAUTION

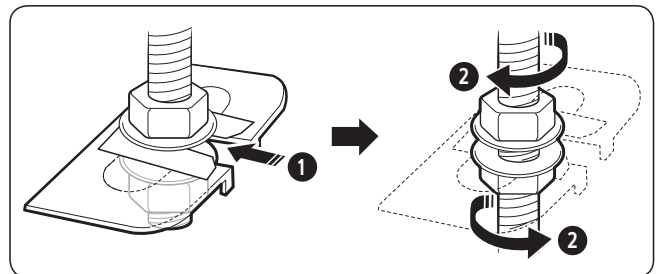
- Make sure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- If the length of the suspension bolt is more than 1.5 m, you are required to prevent vibration.

- 4 Screw eight pairs of nuts and washers to the suspension bolts, making space for hanging the indoor unit.

CAUTION

- You must install all of the suspension rods.
- It is important to leave sufficient space in the false ceiling to allow access for maintenance or repairs to the drainage pipe connection, the refrigerant pipe connection, or to remove the unit if necessary.

- 5 Hang the indoor unit to the suspension bolts between two nuts. Cut a pad stopper and place it on the suspension bolts to hold the washer. Remove the stopper and screw the nuts to fix the unit.

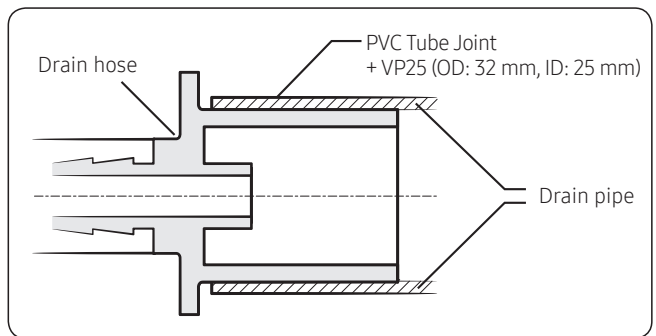
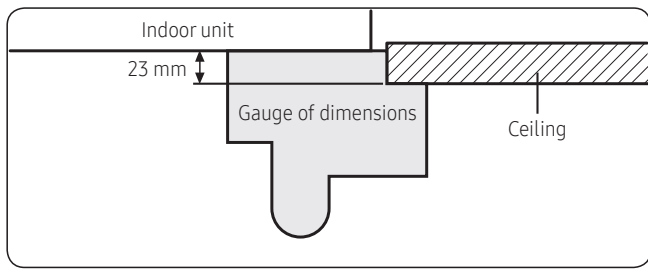


- 6 Adjust the unit to the appropriate position, taking into account the installation area for the front panel.

- Place the pattern sheet on the indoor unit.
- Adjust the space between the ceiling and the indoor unit by using a dimension gauge.
- Fix the indoor unit securely after adjusting the level of the unit by using a leveller.
- Remove the pattern sheet, connect the other cables, and install the front panel.

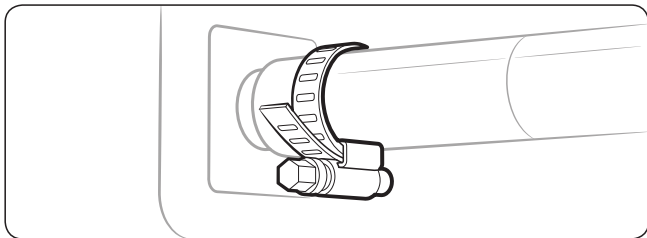
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

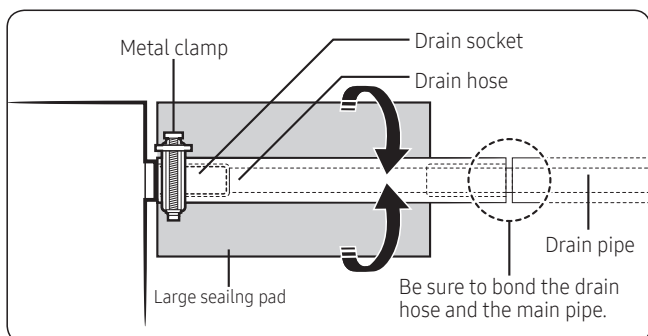


Installing the drain hose and drain pipe

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



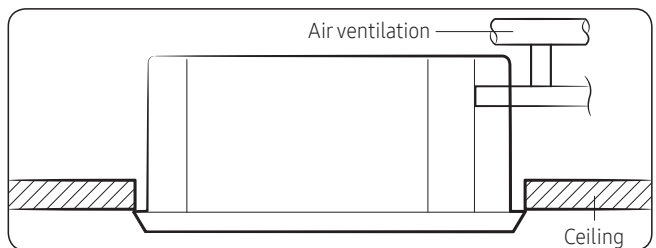
- 3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- 4 Insulate the complete drain piping inside the building (field supply).
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
-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



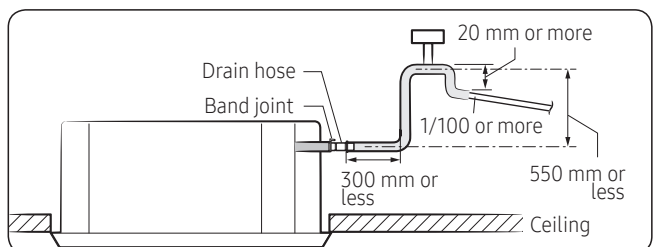
⚠ CAUTION

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

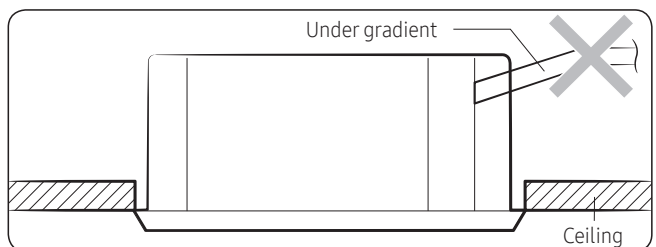
- Install air ventilation to drain condensation smoothly.



- 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.



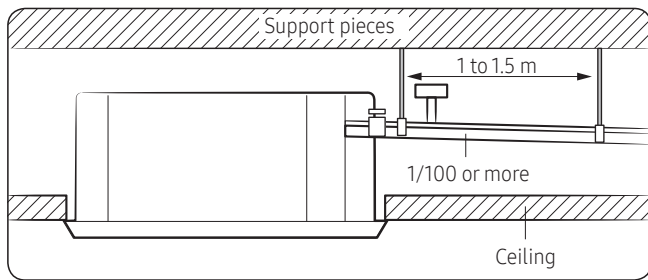
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



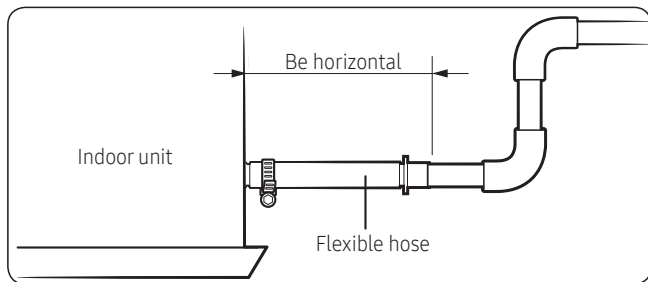
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

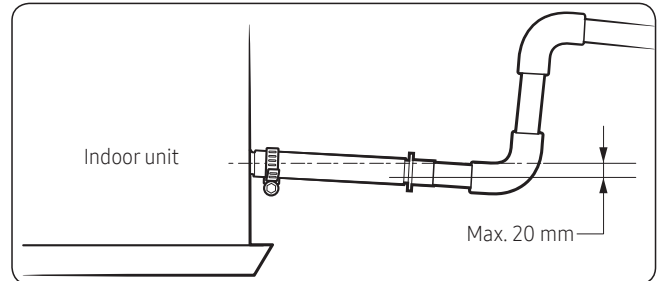
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



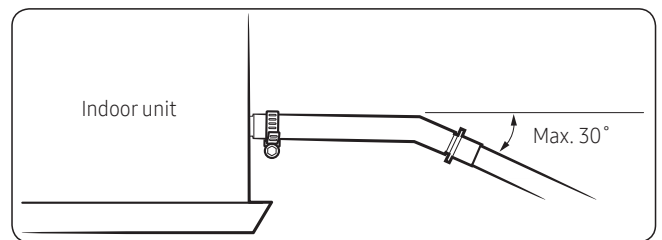
- Install horizontally.



- Max. allowable axis gap.

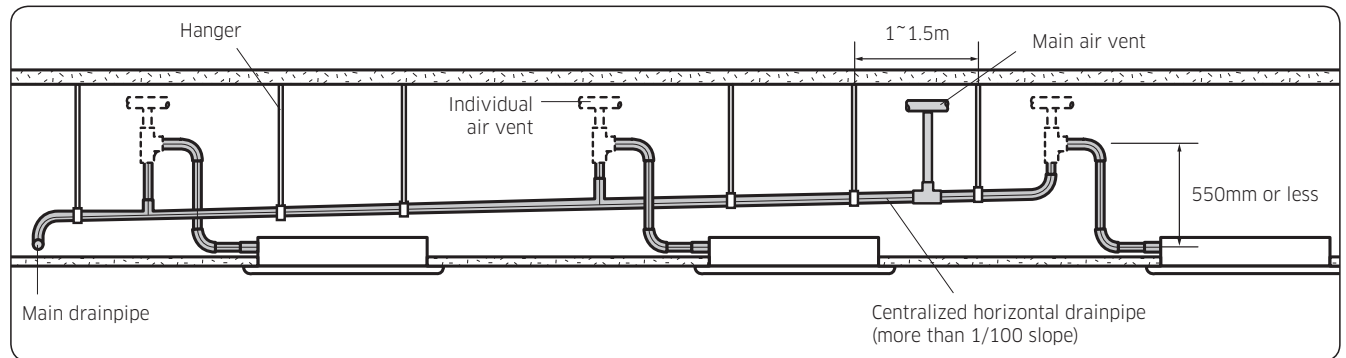


- Max. allowable bending angle.



NOTE

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



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

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.

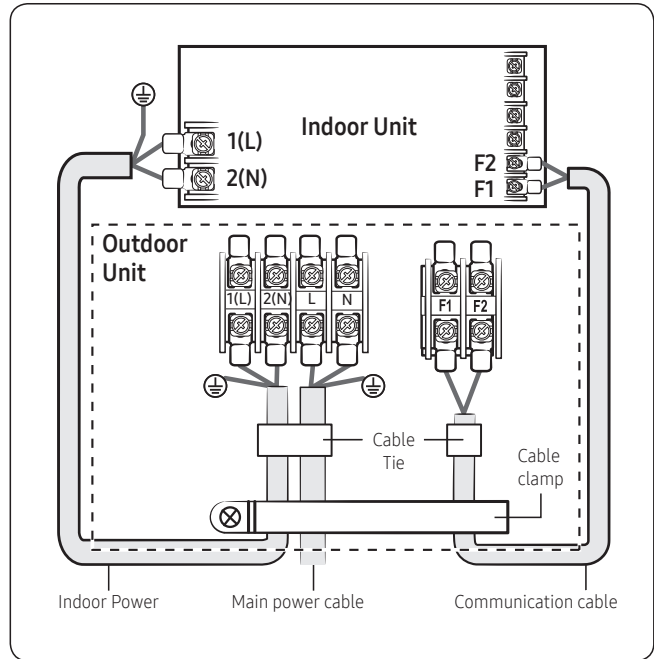
⚠ CAUTION

- 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.

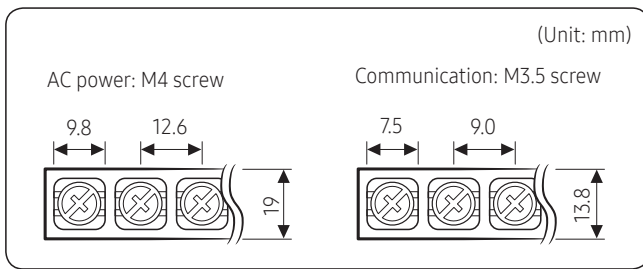
1 phase



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

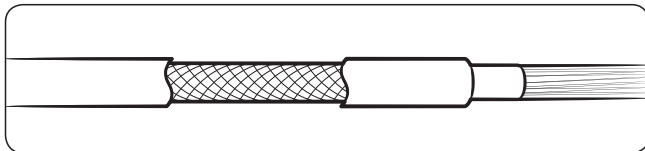
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation



Tightening torque (N • m)	
M3.5	0.8 to 1.2
M4	1.2 to 1.8

- 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

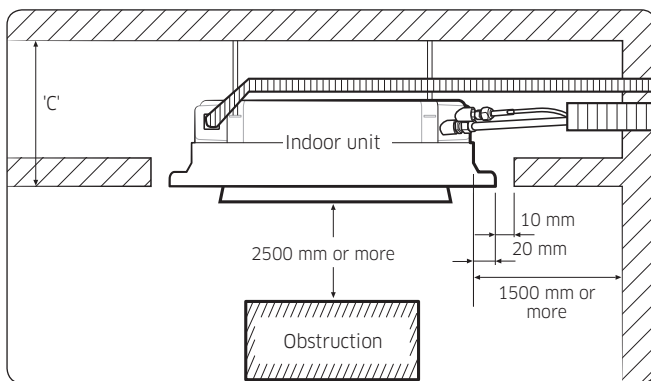
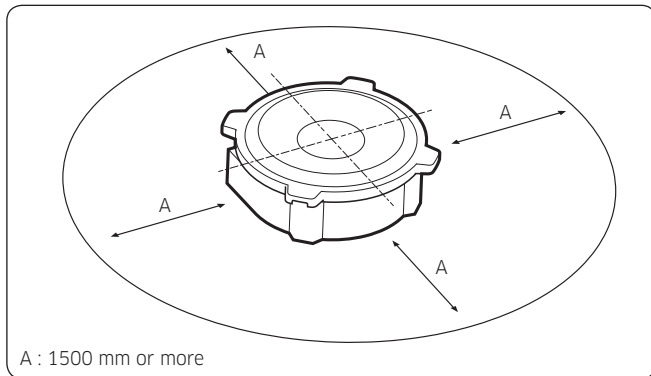
- When installing the indoor unit in a computer room or network room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.
- Select the power cable in accordance with relevant local and national.
- Wire size must comply with local and national code.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates
- Connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring ($\geq 3\text{mm}$).
- You must keep the cable in a protection tube.
- Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.
- The circuit breaker (MCCB, ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Use round pressure terminal for connections to the power terminal block.
- For wiring, use the designated power cable and connect it firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

3. 360 Cassette

Spacing requirements



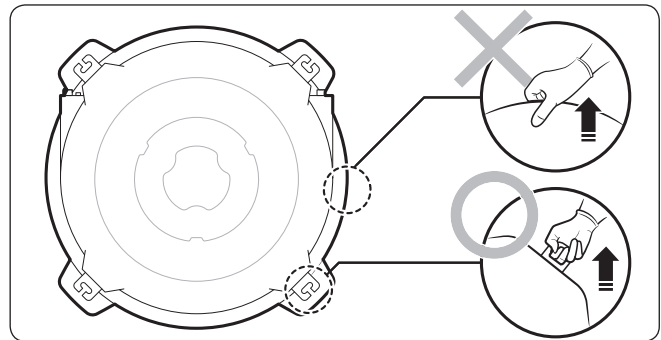
(Unit: mm)

Model	AC071RN4PKG	AC100RN4PKG	AC120RN4PKG	AC140RN4PKG
C	261	345	345	345

⚠ 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 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.

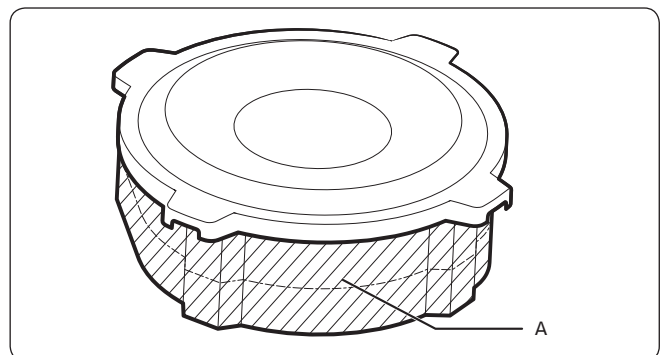
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.



Optional: Insulating the body of the indoor unit

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

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



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

📖 NOTE

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

(Unit: mm)

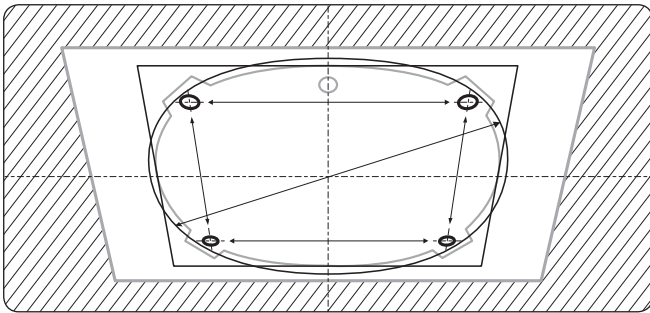
Indoor unit type and models		Dimensions
360 cassette type <S> (947 x 947 x 281)	AC071RN4PKG	2610 x 130
360 cassette type <L> (947 x 947 x 365)	AC100RN4PKG	2610 x 215
	AC120RN4PKG	
360 cassette type <L+> (947 x 947 x 365)	AC140RN4PKG	2610 x 215

Installation

Installing the indoor unit

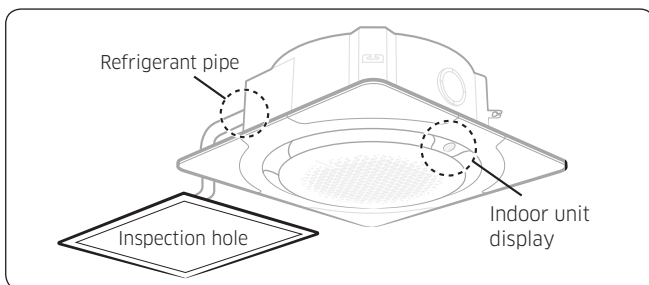
When deciding on the location of the air conditioner the following restrictions must be taken into account.

- 1 Determine the positions of the pipe and the drain hose hole as shown in the pattern sheet, and drill the hole with an inner diameter of 14 mm.

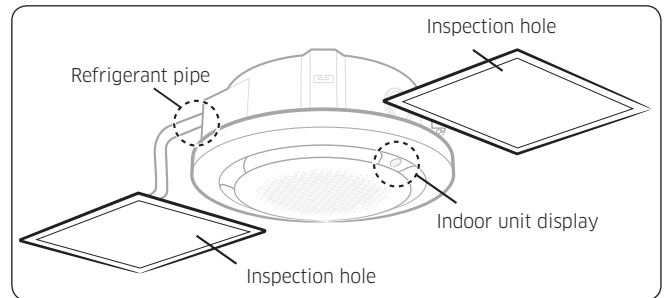


NOTE

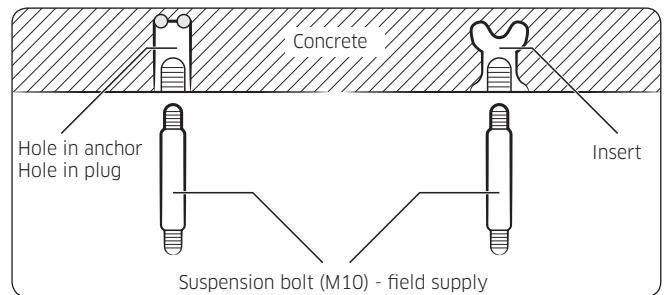
- Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes, be sure to maintain the correct dimensions between the markings.
- 2 Perform the following steps to install inspection holes in accordance with the panel type.
 - a For the recessed installation of the square panel.
 - Install an inspection hole to the direction of connection parts of the refrigerant pipe and the drain hose. (1 point)



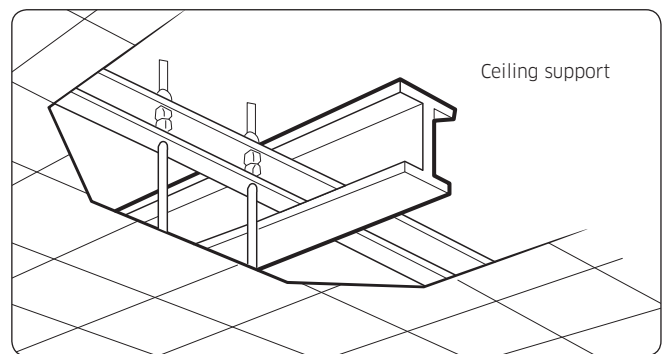
- b For recessed installation of the circular panel
 - Install inspection holes to both directions of the connection part of the refrigerant pipe and the drain hose and of the indoor unit display. (2 points)



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



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



CAUTION

- Make sure 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.

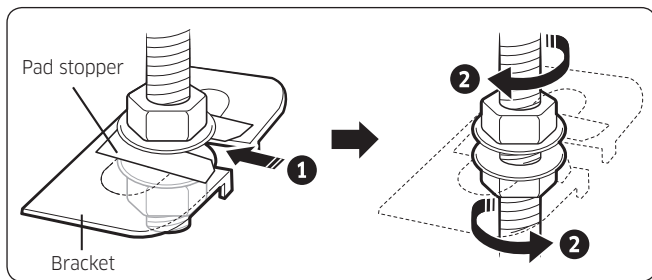
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

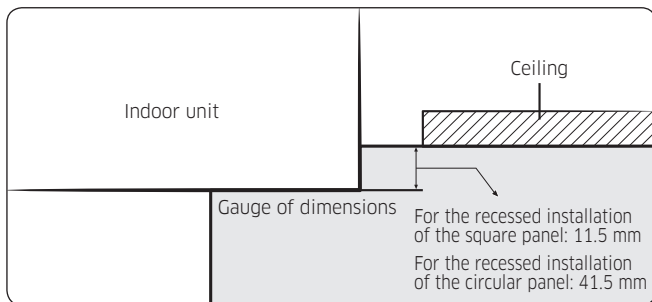
- If the length of the suspension bolt is more than 1.5 m, you are required to prevent vibration.
- 5 Screw eight pairs of nuts and washers to the suspension bolts, making space for hanging the indoor unit.

⚠ CAUTION

- You must install all of the suspension rods.
- It is important to leave sufficient space in the false ceiling to allow access for maintenance or repairs to the drainage pipe connection, the refrigerant pipe connection, or to remove the unit if necessary.
- 6 Hang the indoor unit to the suspension bolts between two nuts. Cut a pad stopper and place it on the suspension bolts to hold the washers. Remove the stopper and screw the nuts to fix the unit.

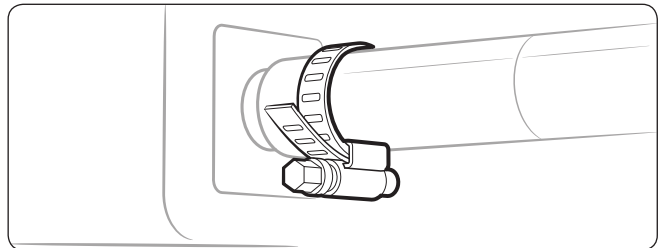


- 7 Adjust the unit to the appropriate position, taking into account the installation area for the front panel.
 - Place the pattern sheet on the indoor unit.
 - Adjust the space between the ceiling and the indoor unit by using a dimension gauge.
 - Fix the indoor unit securely after adjusting the level of the unit by using a leveller.
 - Remove the pattern sheet, connect the other cables, and install the front panel.

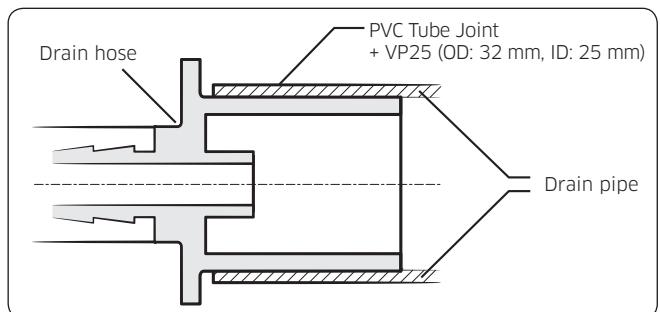
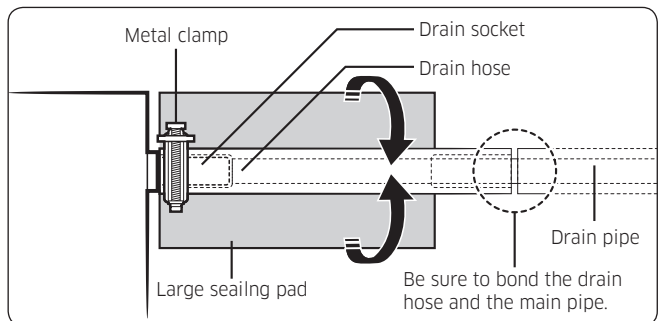


Installing the drain hose and drain pipe

- 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.



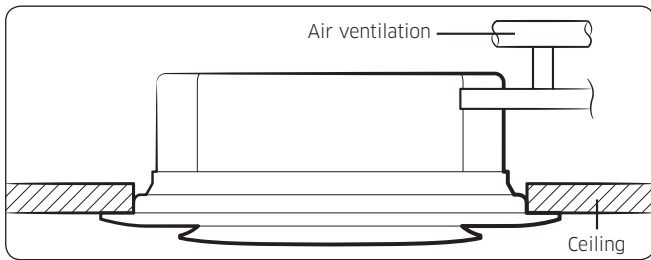
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

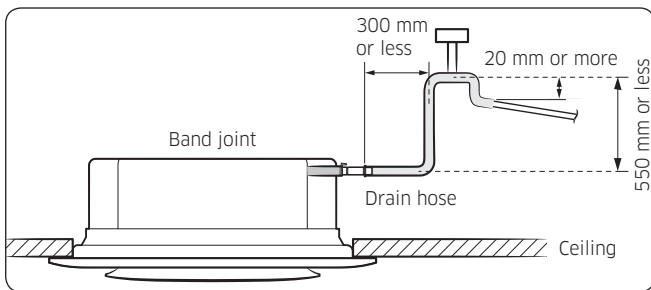
⚠ CAUTION

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

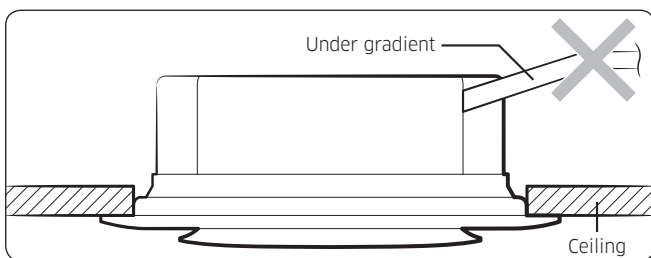
- Install air ventilation to drain condensation smoothly.



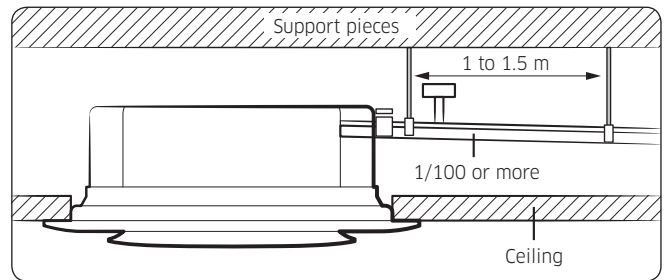
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



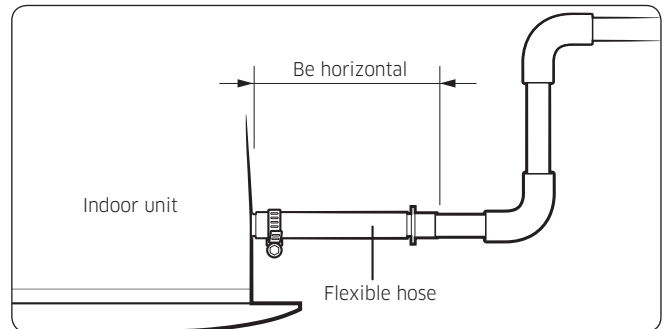
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



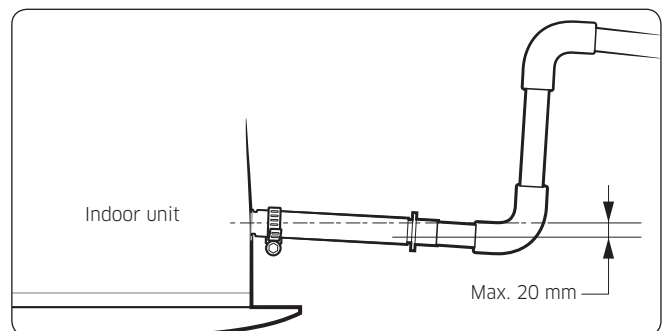
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



- Install horizontally.



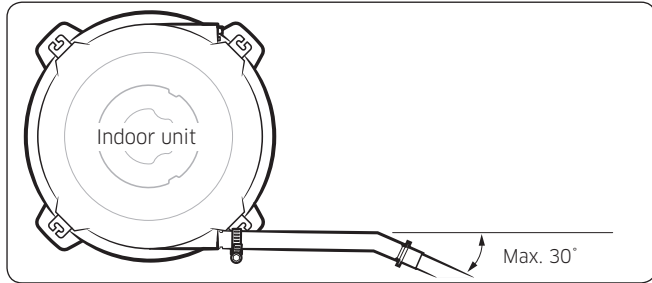
- Max. allowable axis gap.



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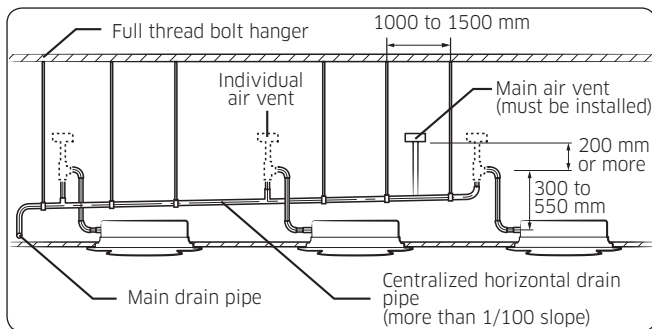
Installation

- Max. allowable bending angle.



NOTE

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

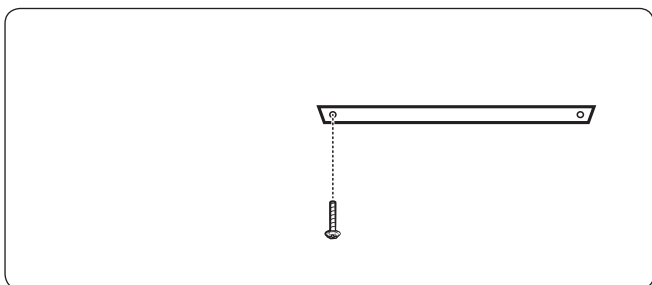


Optional: For the installation of the circular panel

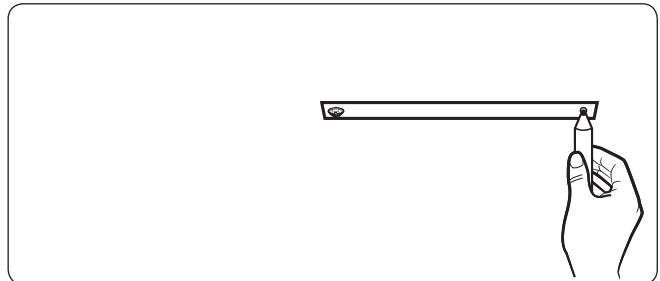
Making a circular opening on the ceiling

Use a paper compass printed on the indoor unit package. (attached inside to the upper part)

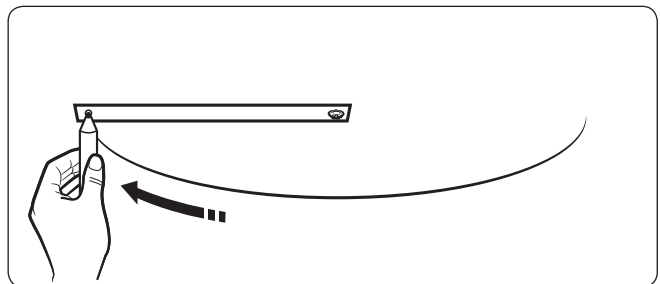
- 1 Use a bolt or a pin to fix pivot point of the paper compass on center of the ceiling. (in the middle of location for installation)



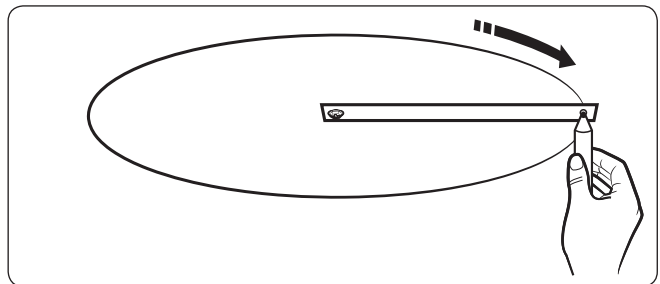
- 2 Put a pencil at the opposite side of the pivot point fixed in place.



- 3 Rotate the paper compass on its pivot point to draw a line on the ceiling.



- 4 Rotate the paper compass diametrically to draw a circle on the ceiling.



For the painting of the panel

- Make sure to only apply paints and varnishes for resins (ABS, HIPS) or paint thinners.
- If you apply lacquers for general use on the panel, it may lead to discoloration or erosion on the surface of the panel.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the power and communication cables

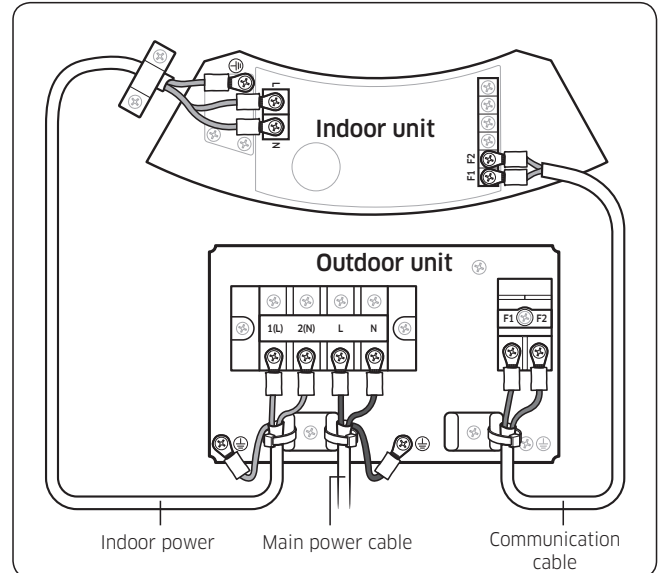
⚠ CAUTION

- 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.
- For the product that uses the R-32 refrigerant, be cautious not to generate a spark by keeping the following requirements:
 - Do not remove the fuses with power on.
 - Do not disconnect the power plug from the wall outlet with power on.
 - It is recommended to locate the outlet in a high position. Place the cords so that they are not tangled.
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

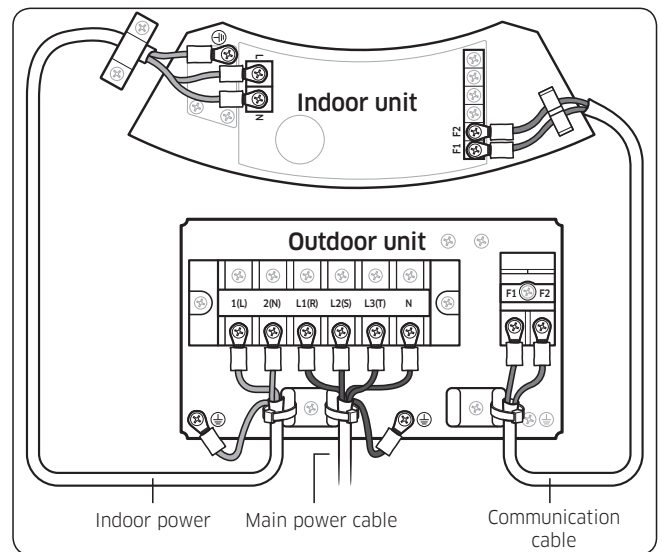
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

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

Wiring terminals) 1 phase

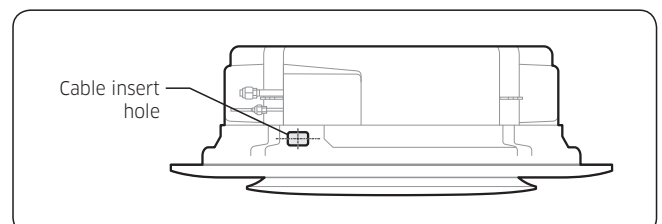


Wiring terminals) 3 phase



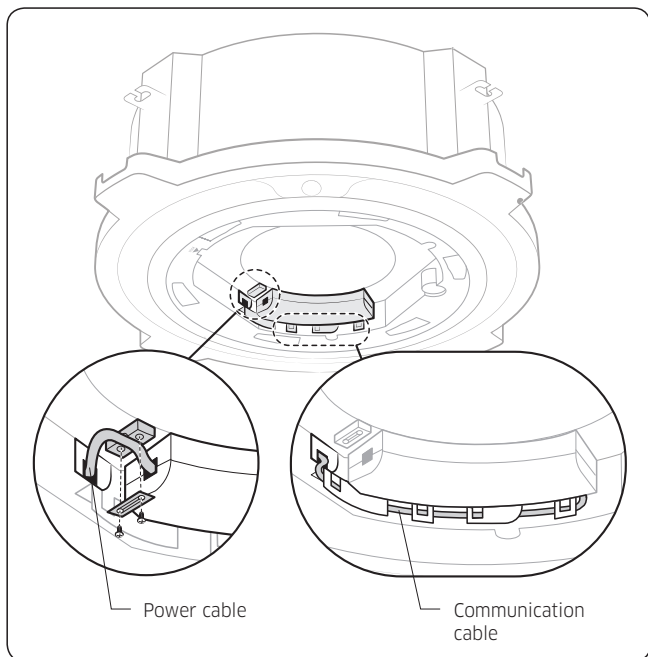
📖 NOTE

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

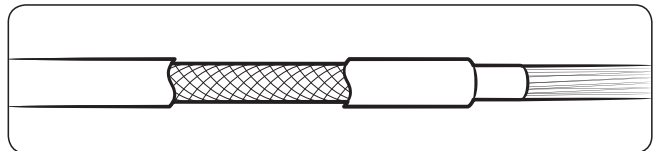


※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation



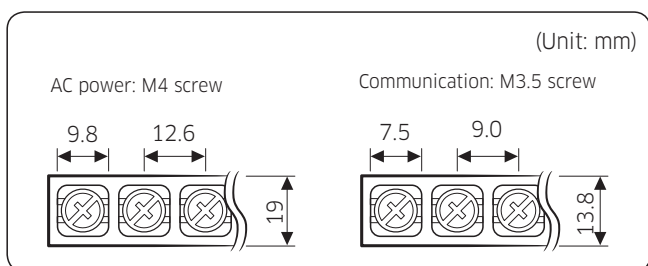
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Since it has the external power supply, refer to the outdoor unit installation 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.

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



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

- 1 N·m = 10 kgf·cm

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

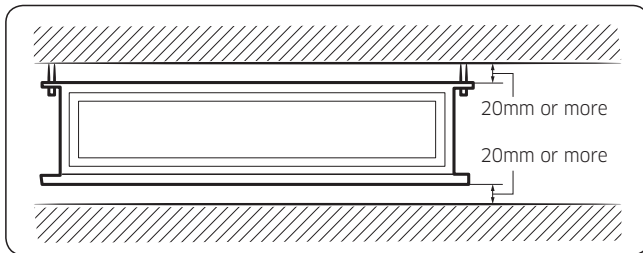
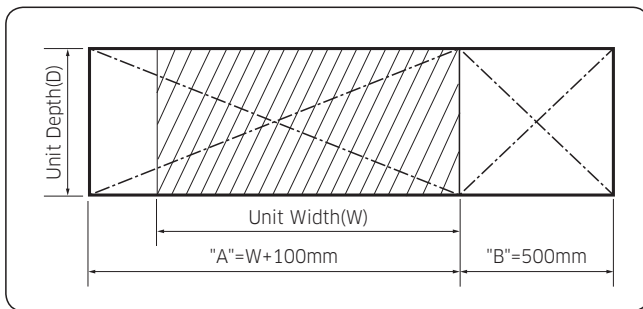
Installation

4. Duct Type

Space requirements for installation

Construction Standard for Inspection Hole

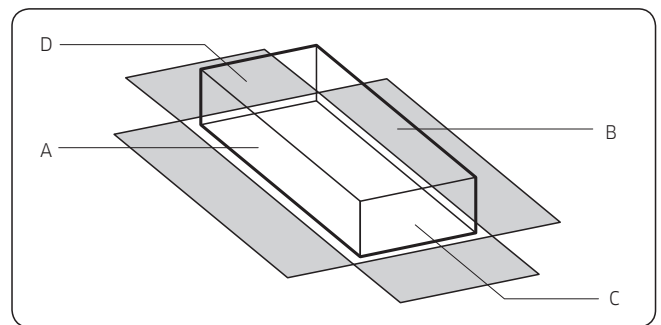
- 1 In case, the ceiling is tex tile, Inspection hole dose not need.
- 2 In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
 - a Height is more than 0.5m : Only "B" [Inspection for PBA] is applied.
 - b Height is less than 0.5m : Both "A"&"B" are applied.
 - 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	AC026BNLDKG AC035BNLDKG	AC052BNLDKG AC071BNLDKG	AC035RNMDKG AC052RNMDKG AC071RNMDKG
	900 X 440 X 199	1100 X 440 X 199	850 X 700 X 250
A	900 X 199	1100 X 199	850 X 250
B	900 X 199	1100 X 199	850 X 250
C	440 X 199	440 X 199	700 X 250
D	440 X 199	440 X 199	700 X 250
Front / Back	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.		

(Unit: mm)

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Indoor Unit	AC100RNMDKG	AC120RNMDKG AC140RNMDKG
	1200 X 700 X 250	1300 X 700 X 300
A	1200 X 250	1300 X 300
B	1200 X 250	1300 X 300
C	700 X 250	700 X 300
D	700 X 250	700 X 300
Front / Back	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.	

(Unit: mm)

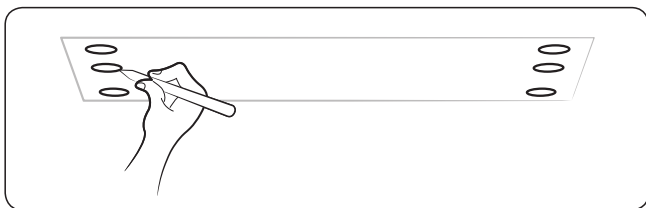
NOTE

- Insulate the end of the pipe and some curved area by using separate insulator.
- Insulate the discharge and suction part at the same time when you insulate connection duct.

Installing the indoor unit

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account

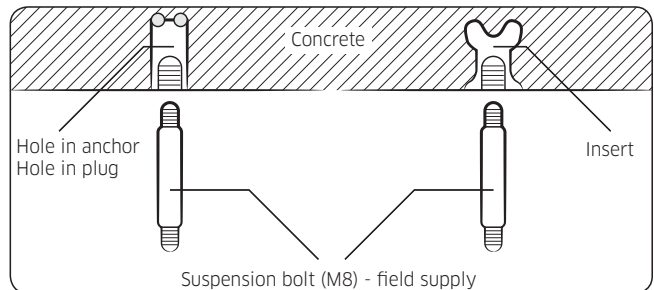
- 1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.



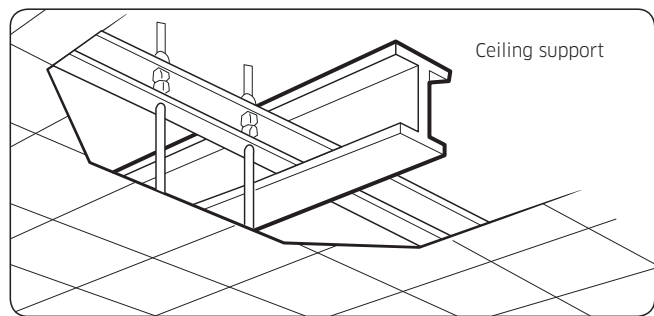
NOTE

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

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



- 3 Install the suspension bolts depending on the ceiling type.



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

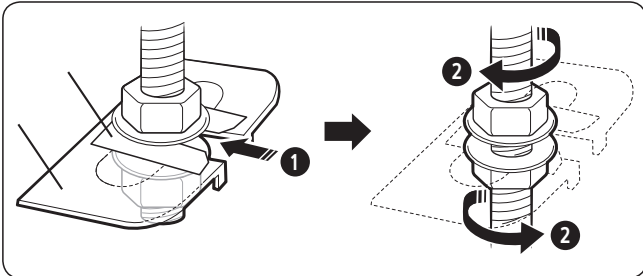
NOTE

- You must install all the suspension rods.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

- 5 Hang the indoor unit to the suspension bolts between two nuts.

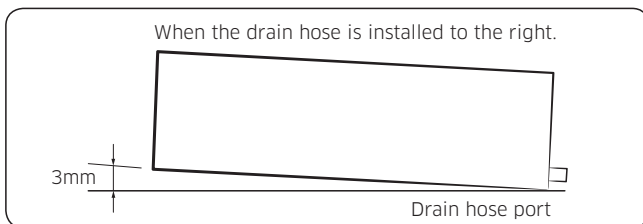


CAUTION

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

CAUTION

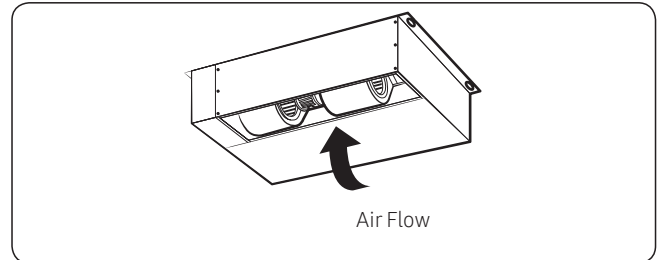
- For proper drainage of condensate, give a 3mm slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.



- When installing the indoor unit, make sure it is not tilted toward front or back side.

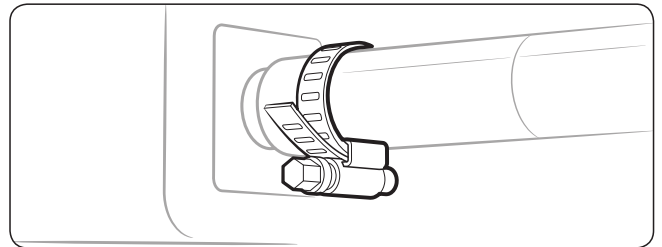
CAUTION

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

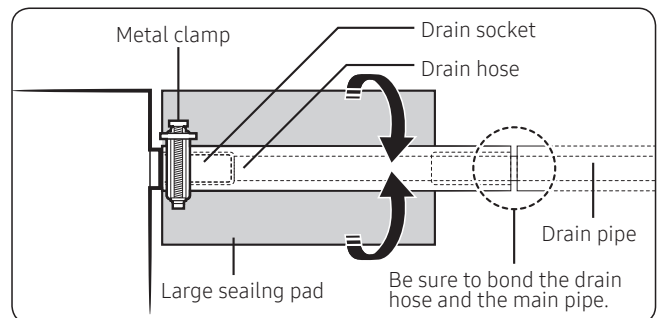


Installing the drain hose and drain pipe

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

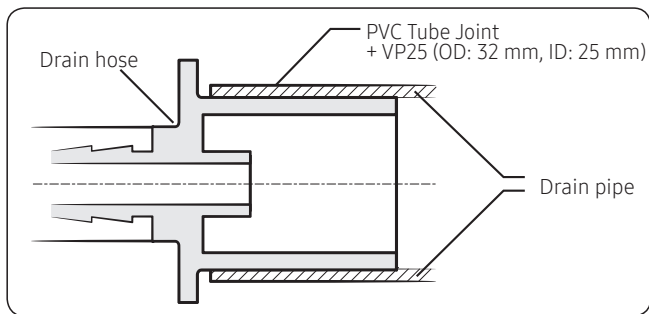


- Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- Insulate the complete drain piping inside the building (field supply). If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
- Push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



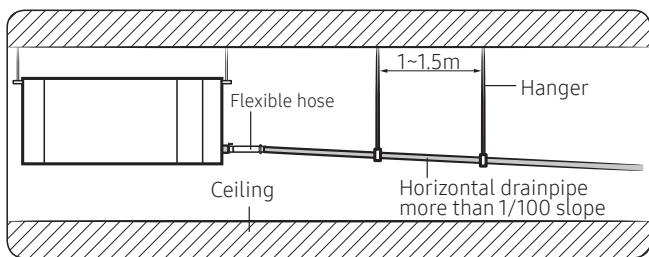
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation



Without the drain pump

- 1 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5 m.
- 2 Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.
- 3 Do not install the drainpipe to upward position. It may cause water flow back to the unit.



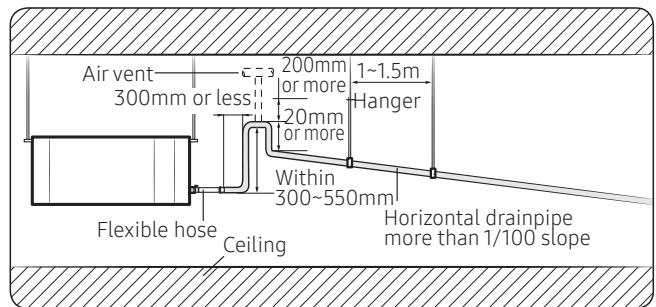
With the drain pump

- 1 The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.
- 2 Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
- 3 Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.

NOTE

- You may not need to install it if there were proper slope in the horizontal drainpipe.

- 4 The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.



Connecting the power and communication cables

CAUTION

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

CAUTION

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

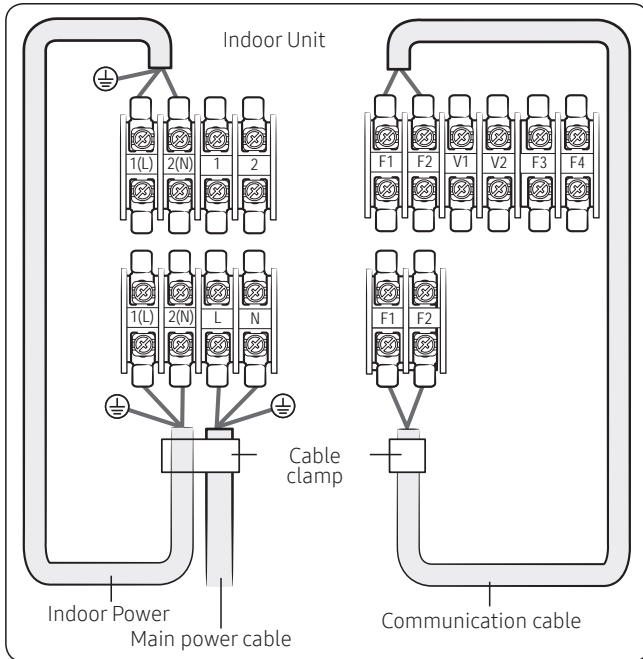
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

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

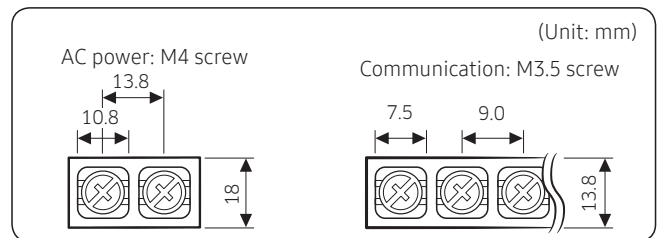
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

1 phase (**026/035/052/071/100/120/140**)

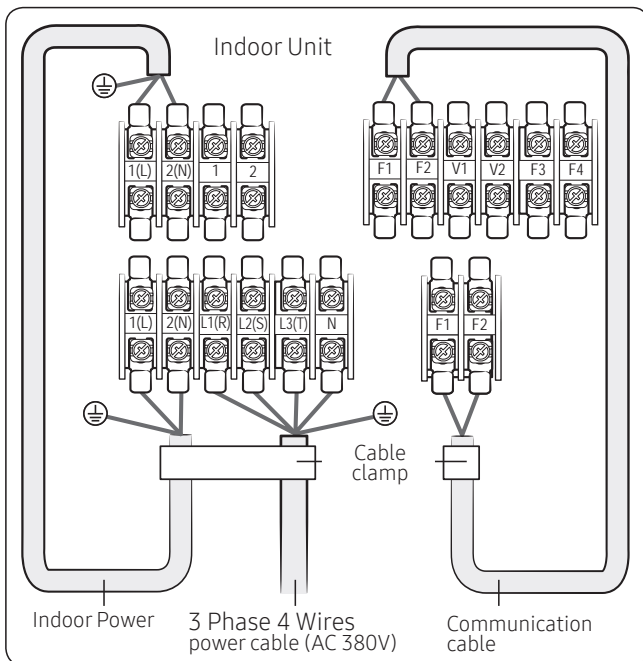


Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	0.75 to 1.5 mm ² , 3 wires
Communication cable		
0.75 mm ² , 2 wires		



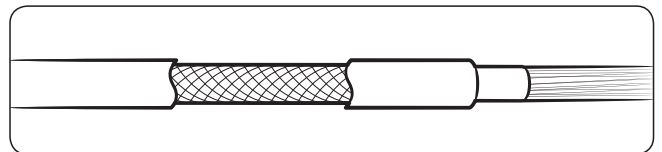
Tightening torque (kgf • cm)	
M3.5	8.0 to 12.0
M4	12.0 to 18.0

3 phase (**100/120/140**)



• 1 N·m = 10 kgf·cm

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



⚠ CAUTION

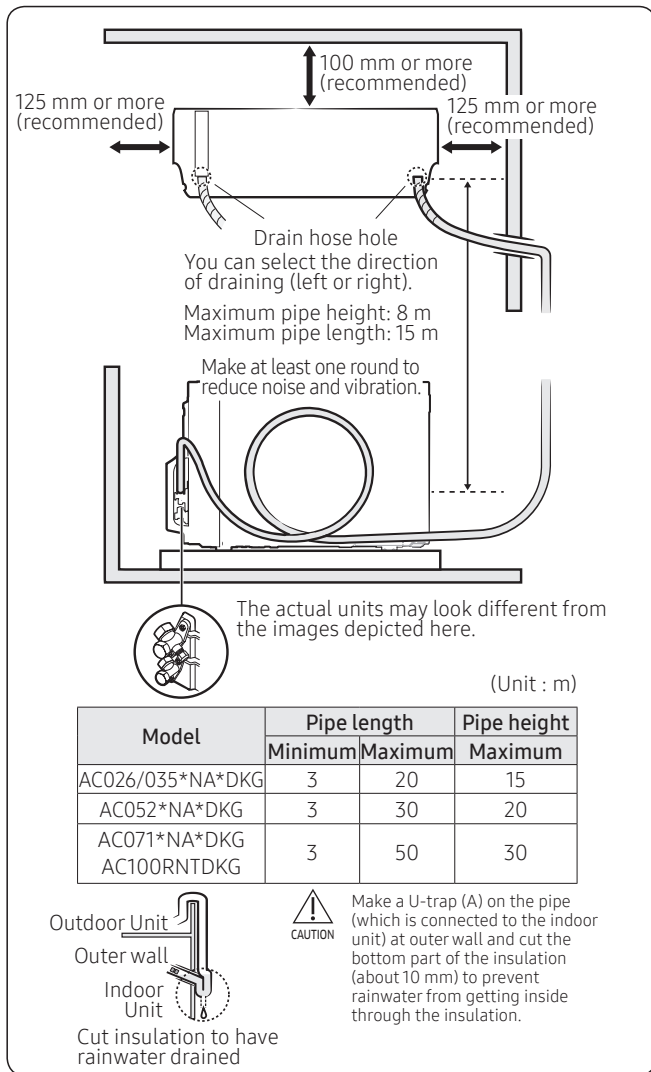
- When installing the indoor unit in a computer room or a server room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R type.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

5. Wall mounted Type

Overview of installation location requirements



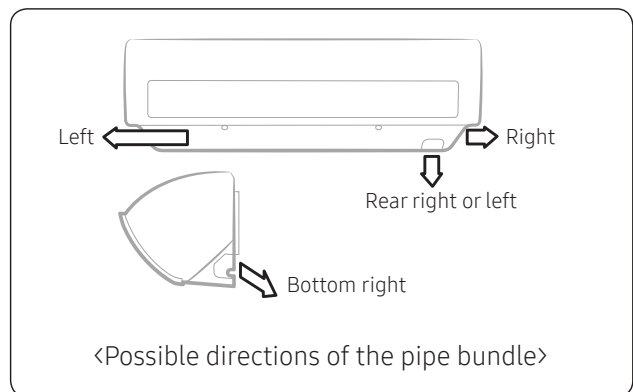
CAUTION

- 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.

Drilling a hole through the wall

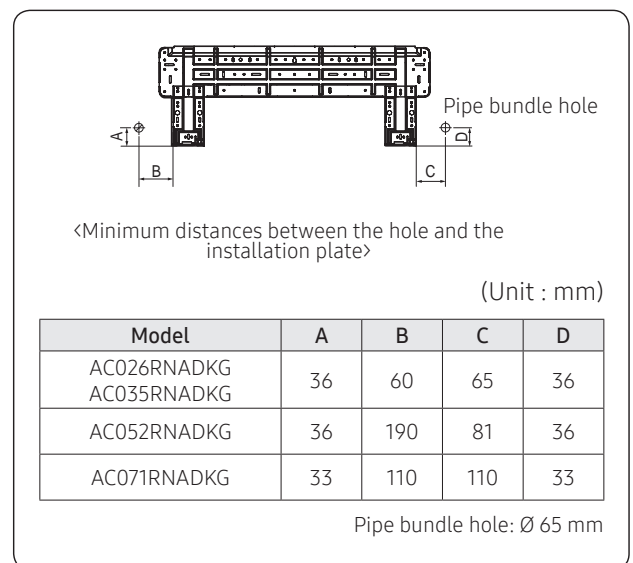
Before fixing the installation plate to a wall and then fixing the indoor unit to the installation plate, a window frame, or a gypsum board, you must determine the position of a hole (with 65 mm inner diameter) through which the pipe bundle (consisting of power and communication cables, refrigerant pipes, and drain hose) will pass and then drill that hole.

- 1 Determine the position of a 65 mm hole in consideration of the possible directions of the pipe bundle and the minimum distances between the hole and the installation plate.



CAUTION

- If changing the pipe direction from left to right, do not drastically bent it but slowly turn it in the opposite direction as shown. Otherwise, the pipe may be damaged in the process.



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

<Minimum distances between the hole and the installation plate>

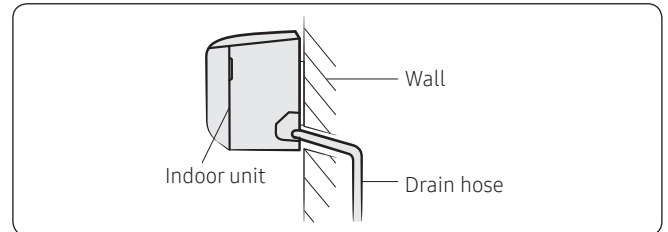
(Unit : mm)

Model	A	B	C	D	E	F
AC100RNTDKG	156	67	364	34.5	64.5	19.5

Pipe bundle hole: \varnothing 65 mm

Wind-Free™

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



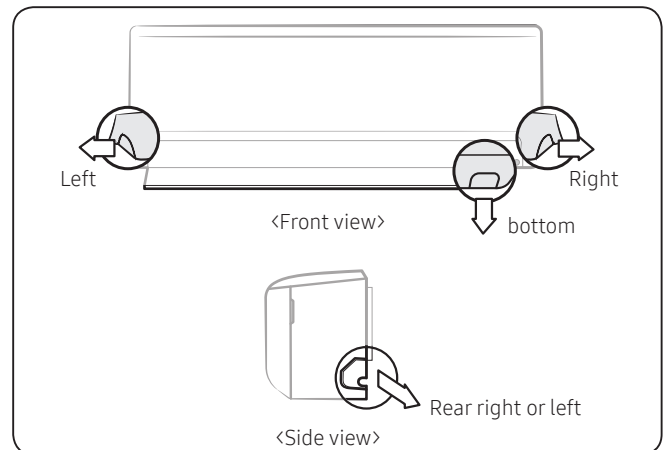
Based on the hole location, determine where the piping bundle (drain hose, refrigerant pipes, and cables) will exit the unit.

Center of indoor unit (B)
Center of indoor unit (A)

Possible positions for hole behind unit

(Unit: mm)

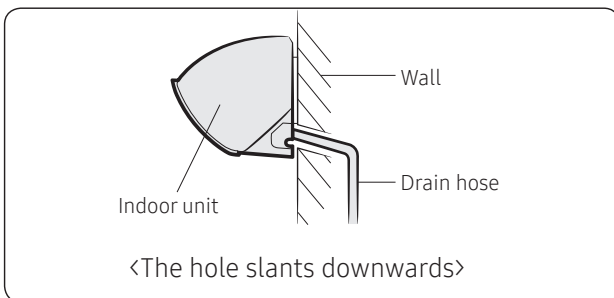
Model	a	b	c
AC026/035TNXDKG	165	305	416
AC052/071TNXDKG	150	305	650.5



2 Drill the hole.

CAUTION

- Be sure to drill only one hole.
- Make sure that the hole slants downwards so that the drain hose slants downwards to drain water well.



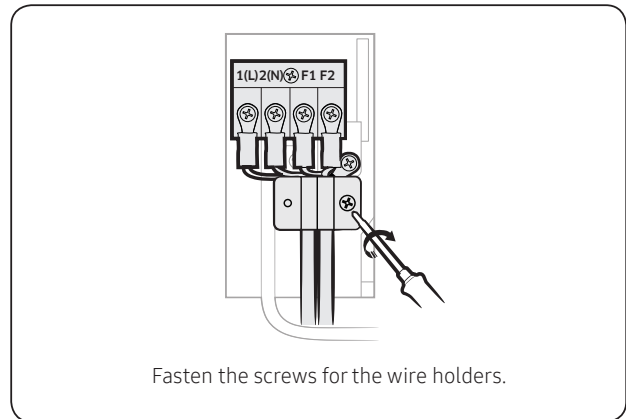
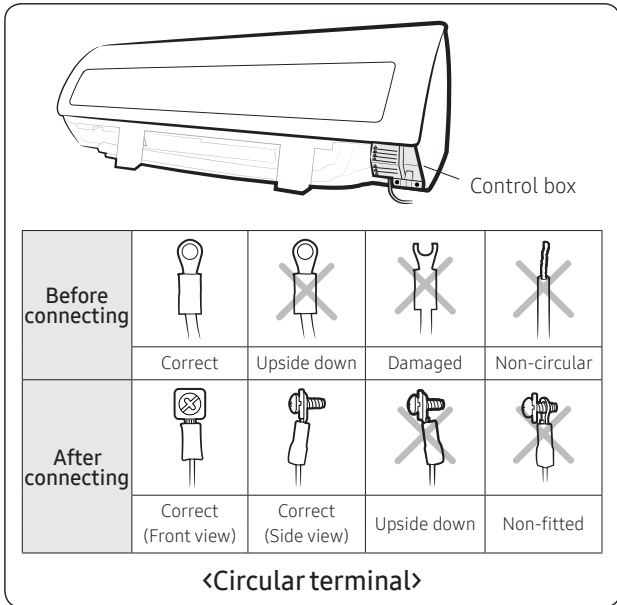
NOTE

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

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the power and communication cables (assembly cable)



Model	AC026RNADKG AC035RNADKG AC052RNADKG AC071RNADKG AC100RNTDKG
Outdoor-to-indoor power cable	3G X 0.75 mm ² , H07RN-F
Communication cable	2 X 0.75 mm ² , H05RN-F
Type GL	16A

Model	AC026/035/052TNXDKG	AC071TNXDKG
Power cable (Outdoor unit)	3G X 2.5 mm ² , H05RN-F	3G X 2.5 mm ² , H05RN-F
Outdoor-to-indoor power cable	3G X 0.75~1 mm ² , H05RN-F	3G X 0.75~1 mm ² , H05RN-F
Communication cable	3G X 0.75 mm ² , H05RN-F	3G X 0.75 mm ² , H05RN-F
Type GL	16 A	20 A

- When performing electrical and earthing works, be sure to comply with the 'technical standards of electrical installations' and the 'wiring regulations' in the local regulations.
- Tighten the terminal block screw to 1.2-1.8 N•m (12-18 kgf•cm).

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

NOTE

- Each wire is labelled with the corresponding terminal number.
- Use shield cable (Category 5; less than 50pF/m) for noisy environmental site.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC: 60245 IEC 66/CENELEC: H07RN-F, IEC: 60245 IEC 57/CENELEC: H05RN-F)

CAUTION

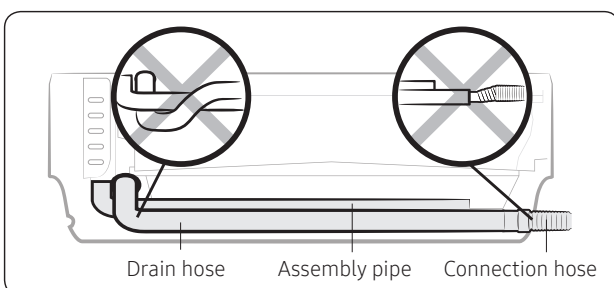
- For the terminal block wiring, use a wire with a ring terminal socket only. Regular wires without a ring terminal socket may become a hazard due to overheating of the electrical contact during installation.
- Do not connect two or more different cables to extend the length. This connection may cause fire.
- Each circular terminal must match the size of its corresponding screw in the terminal block.
- After connecting the cables, make sure that terminal numbers on the indoor and outdoor units match.
- Ensure that power and communication cables are separated, they must not be in the same cable.
- For the product that uses the R-32 refrigerant, be cautious not to generate a spark by keeping the following requirements:
 - Do not remove the fuses with power on.
 - Do not disconnect the power plug from the wall outlet with power on.
 - It is recommended to locate the outlet in a high position. Place the cords so that they are not tangled.

WARNING

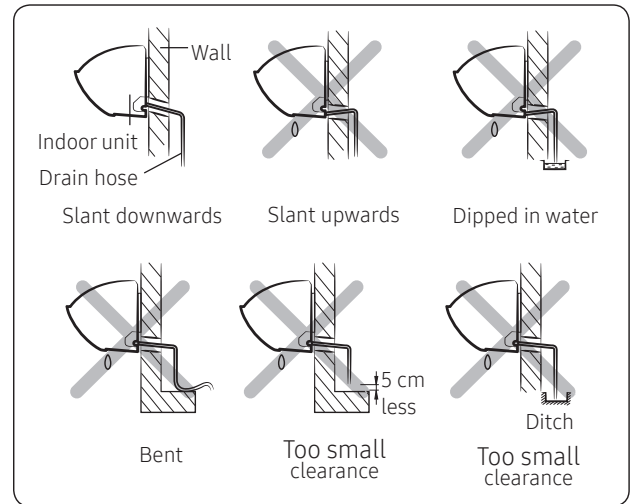
- Connect the wires firmly so that wires cannot be pulled out easily. (If they are loose, it could cause burn-out of the wires.)

Installing and connecting the drain hose

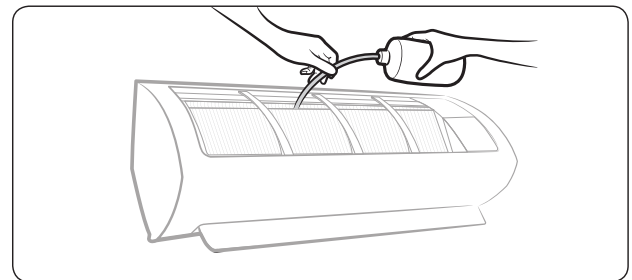
1 Install the drain hose.



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.



2 Pour water into the drain pan. Check whether the hose is well drained.



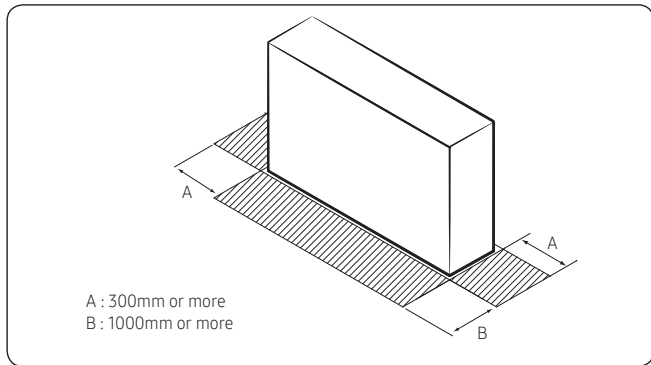
CAUTION

- Make sure that the indoor unit is in upright position when you pour water to check for leakage. Make sure that the water does not overflow onto the electrical part.
- If the diameter of the connection hose is smaller than the product's drain hose, water leakage may occur.
- Inadequate installation may cause water leakage.
- If the drain hose is routed inside the room, insulate the hose so that dripping condensation does not damage the furniture or floors.
- Do not box in or cover the drain hose connection. Drain hose connection must be easily accessible and serviceable.

Installation

6. Console

Spacing requirements

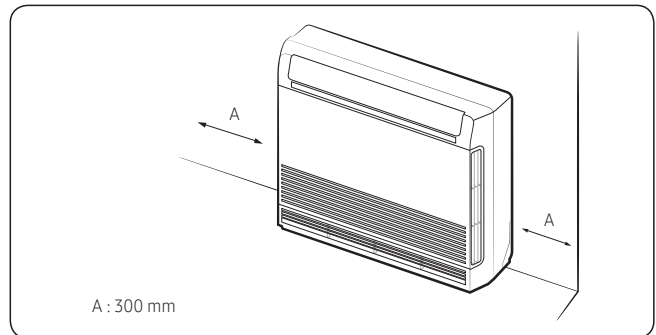


⚠ CAUTION

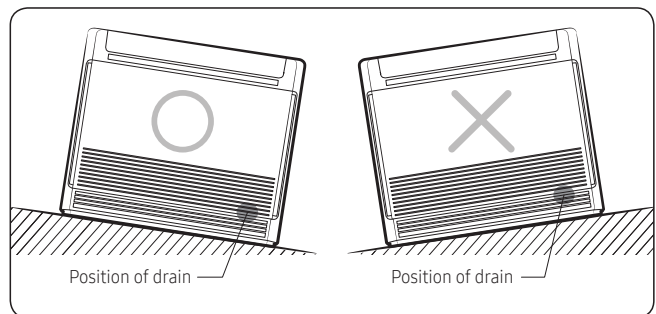
- Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
- For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.

Installing refnet joint

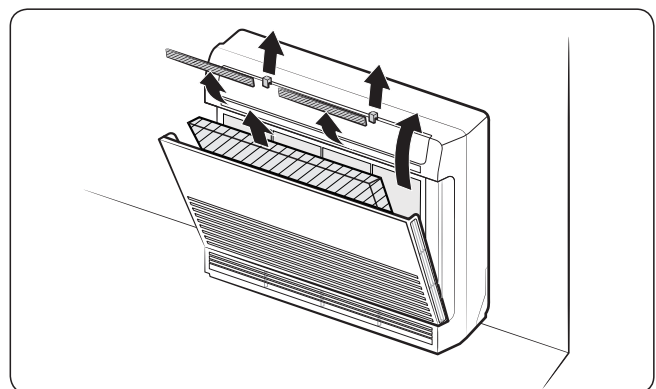
- 1 When you install the indoor with side-pipe connection, please make space more than 300mm from the wall.



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



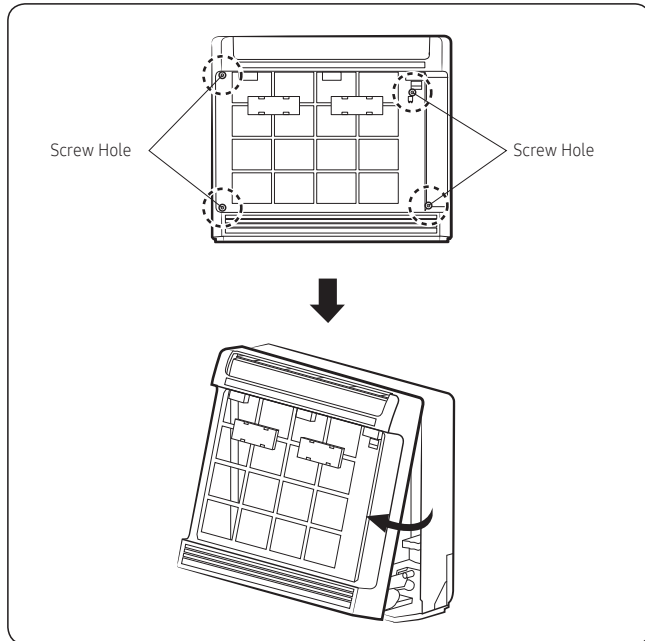
- 3 Please remove the items when set is installed.
(**026/035**: 6 Items / **052**: 7 Items)



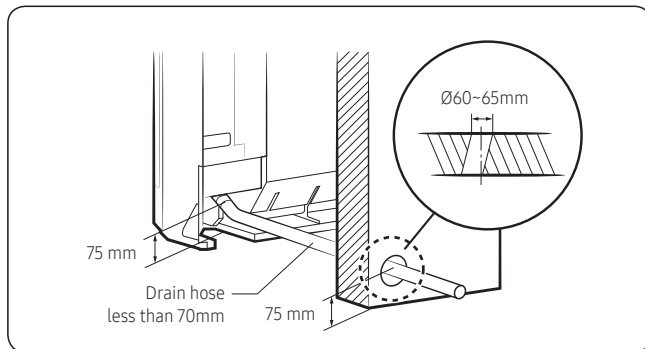
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

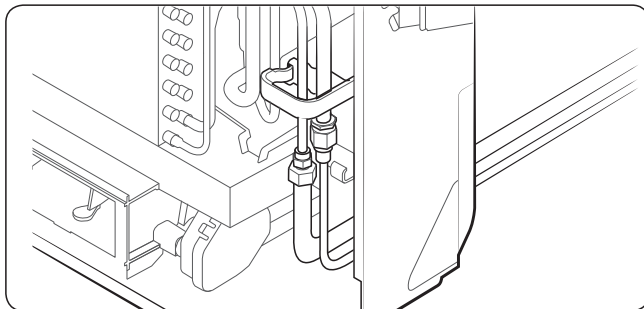
- 4 The body front should be opened to connect pipes. Please release the 4 screws of body front and then pull it out from the bottom of the set.



- 5 Make a hole on the wall.

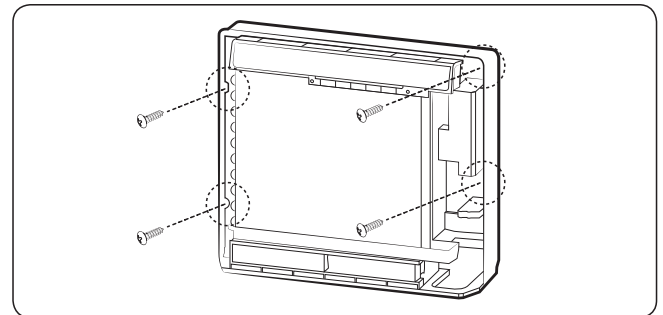


- 6 The pipes & cable should be gone through the bottom back hole.



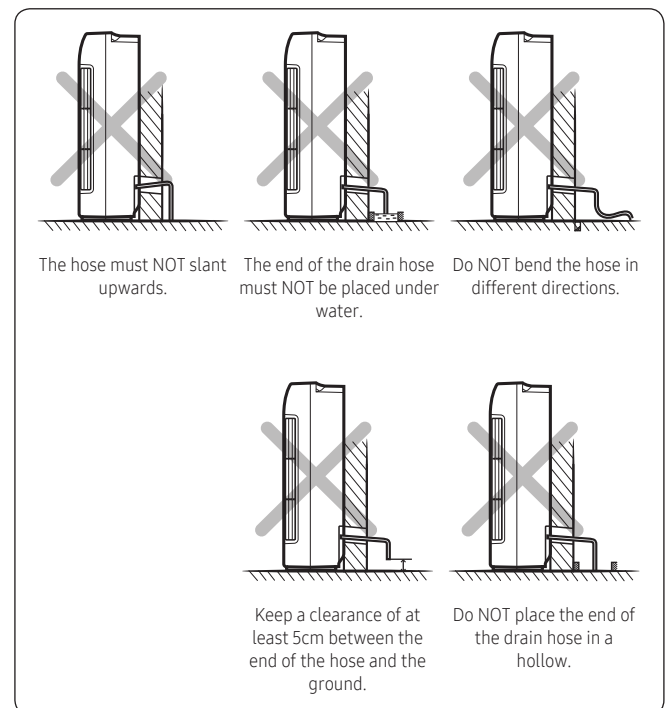
- 7 Hanging the indoor unit on the Bracket Hanger, then fix the Indoor Unit by using 4 Screws.

- Case 1. Installing on the floor : Must fix 4 screws on the wall, make the indoor not to fall down(For safety installation) .
- Case 2. Hanging on the wall : Follow the installation guide supplied in the accessory part.
 - Screw positions are specified on the installation guide.



Installing the drain hose and drain pipe

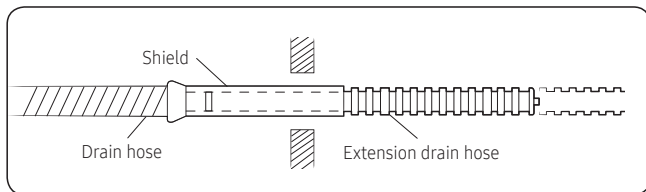
When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65-mm hole drilled in the wall, check the following:



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

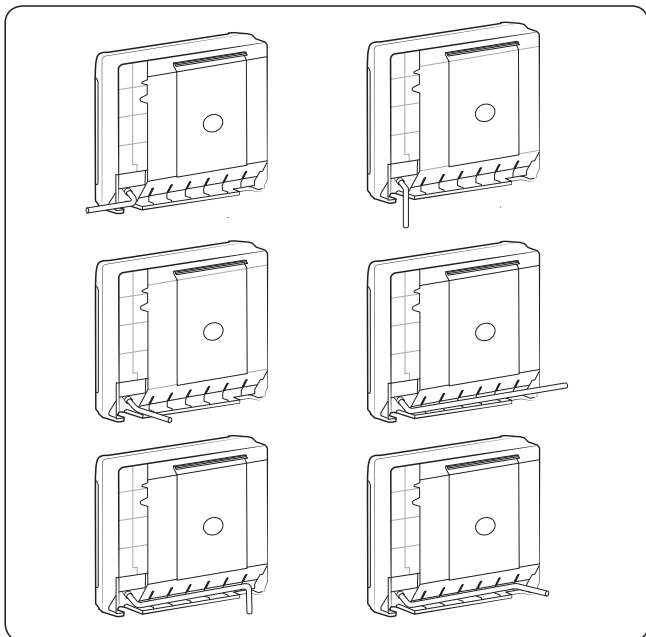
Installation

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

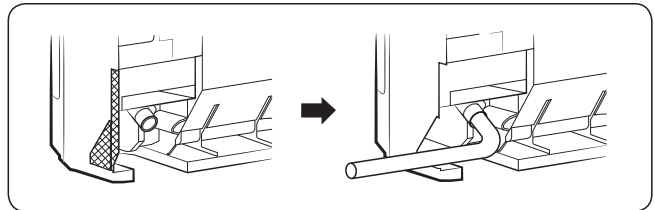


- 2 If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.
- 3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.
 - If you don't use the other drain hose hole, block it with a rubber stopper.
- 4 Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.
- 5 Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.

6-ways for drain hose and drain pipe connection



Knock out



NOTE

- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 12 for further details.

Connecting the power and communication cables

CAUTION

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

CAUTION

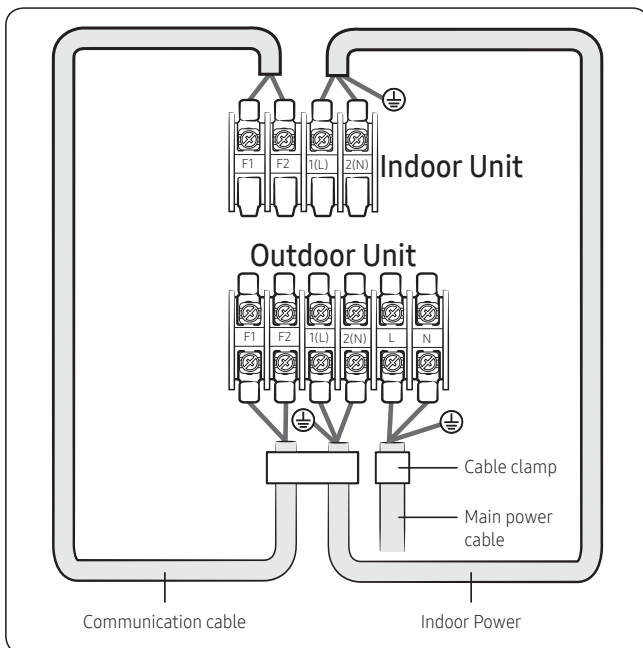
- Always remember to connect the air conditioner to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

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

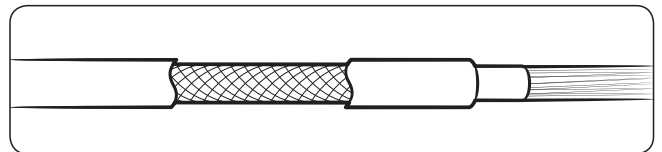
- 1 Remove the screw on the electrical component box and remove the cover plate.
- 2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
- 3 Route the other end of the cable to the outdoor unit through the ceiling & the hole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

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation



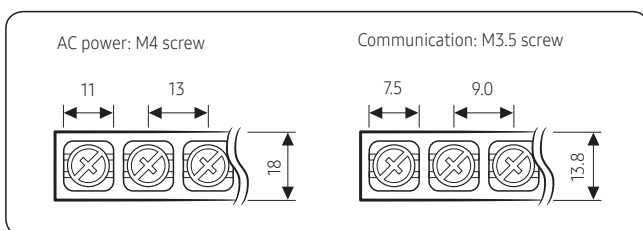
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Screws on terminal block must not be unscrewed with the torque less than 12 kgf•cm.
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



⚠ CAUTION

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

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



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

1 N·m = 10 kgf·cm

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

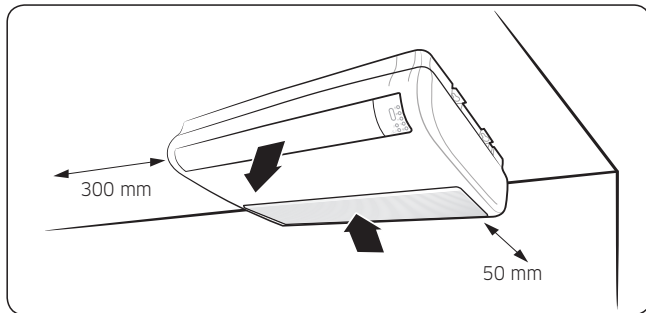
Installation

7. Ceiling / Big Ceiling

Spacing requirements

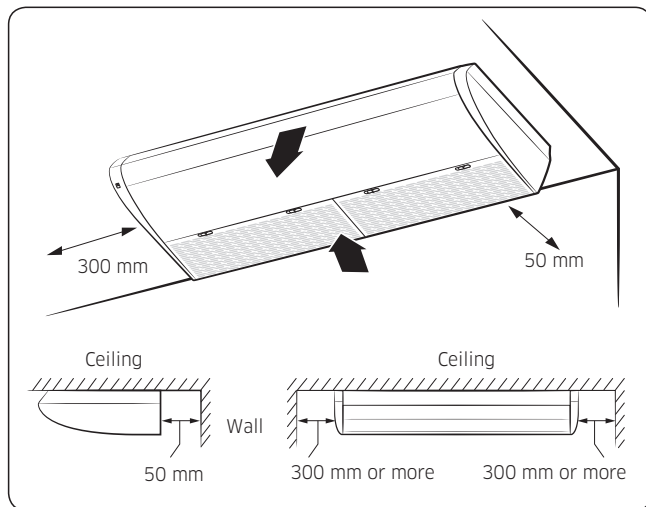
AC052/071RNC DKG

Ceiling installation



AC100/120/140RNC DKG

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

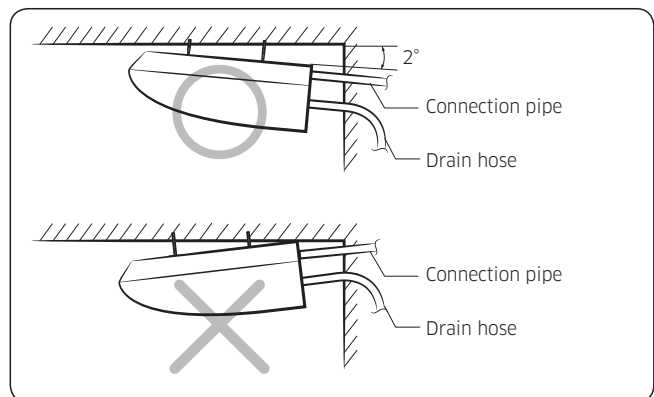
- Use the pattern sheet to select pipe directions.
- 2 Drill holes for anchor bolts according to the distance and mount them.

NOTE

- Use the pattern sheet.
- 3 Install the unit onto the ceiling. Be sure to arrange the drain hose so that it is leveled lower than the drain hose connecting port of the indoor unit.

NOTE

- For proper drainage of condensate, give a 2° (The gap between the lower end of the indoor unit and the ceiling should be 23~ mm or more.) slant to the side of the unit which will be connected with the drain hose as shown in the figure.



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

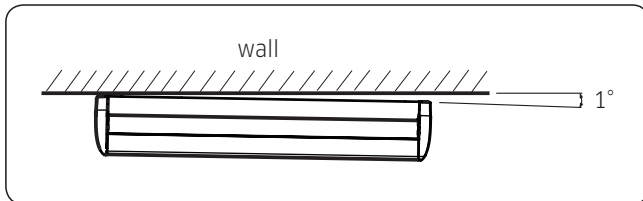
Installation

⚠ CAUTION

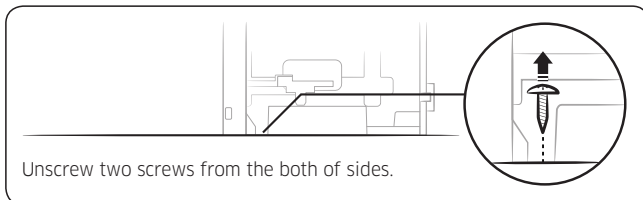
- Ensure that the ceiling is strong enough to support the weight of the indoor unit.
- Before hanging the unit, test the strength of each attached suspension bolt.
- Install the drain hose from the rear of the unit.

📄 NOTE

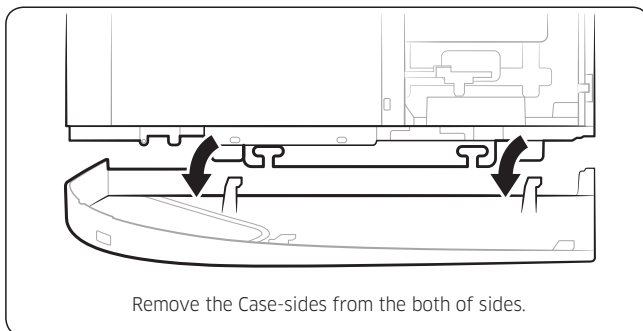
- AC052/071RNCDKG: The gap between the lower end of the indoor unit and the ceiling should be 1° or 16 mm.
- AC100/120/140RNCDKG: The gap between the lower end of the indoor unit and the ceiling should be 1° or 28 mm.



- 4 When Hanging the set, firstly unscrew the screws from the both of sides, and then disassemble the Case-sides, or else the case-side will be damaged by disassembling it directly. (Only for AC100/120/140RNCDKG)



- 5 Reassemble the Case-sides, tightening the screws after hanging the set. (Only for AC100/120/140RNCDKG)

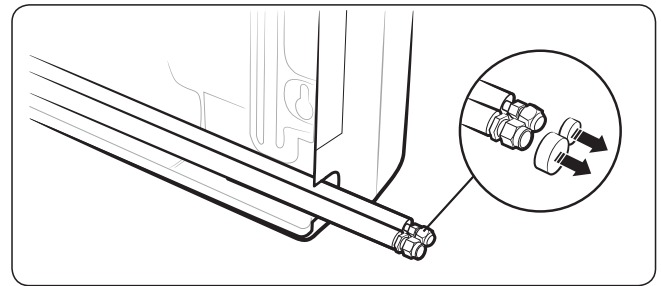


Purging inert gas from the indoor unit

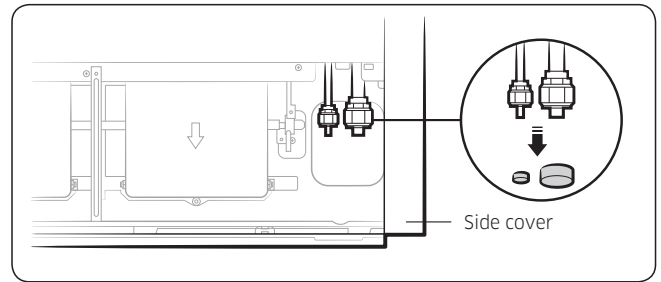
The indoor unit comes with nitrogen gas (inert gas) charged at the factory. Therefore, all inert gas must be purged before connecting the assembly piping.

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

AC052/071RNCDKG



AC100/120/140RNCDKG



📄 NOTE

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

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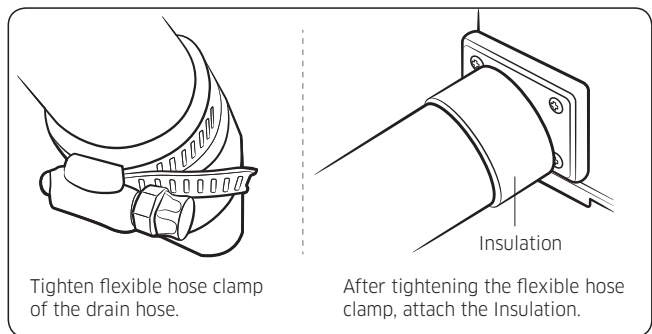
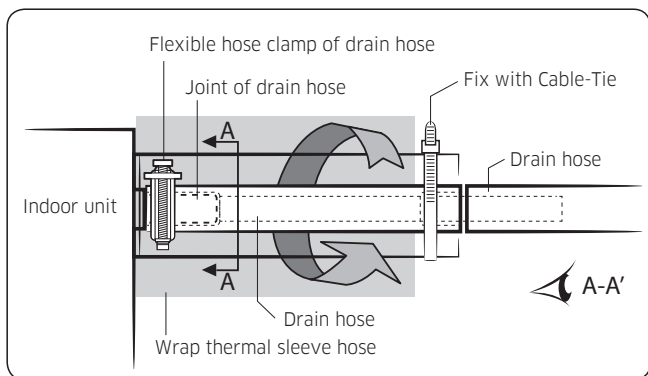
Installation

Installing the drain hose and drain pipe

Care must be taken when installing the drain hose for the indoor unit to ensure that any condensation water is correctly drained outside.

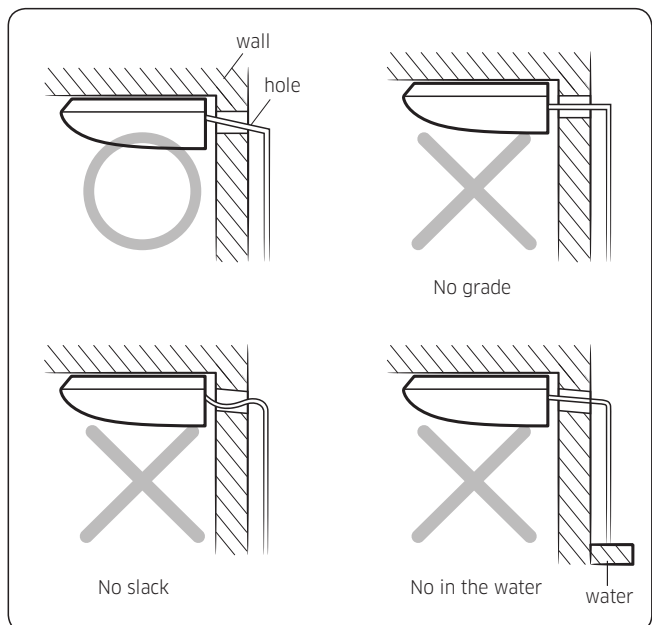
NOTE

- Installing the drain hose should be the shorter, the better.
 - In order to discharge condensate water, a downward gradient should be maintained.
 - Fix the drain hose with Cable-Tie, so that it will not separate from the machine.
- 1 Insert the drain hose to bottom of the outfall of water basin.
 - 2 Lock flexible hose clamp of the drain hose according to the figure.
 - 3 Wind and wrap flexible hose clamp and drain hose fully with thermal insulation sponge; fix both ends of external layer with ribbon for thermal insulation.
 - 4 After being installed, drain hose must be insulated fully by heat insulating material. (To be provided at site.)
 - Be sure to tighten the flexible hose clamp of the drain hose.
 - Wrap the insulation after attaching the flexible hose clamp.



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

Ceiling 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.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

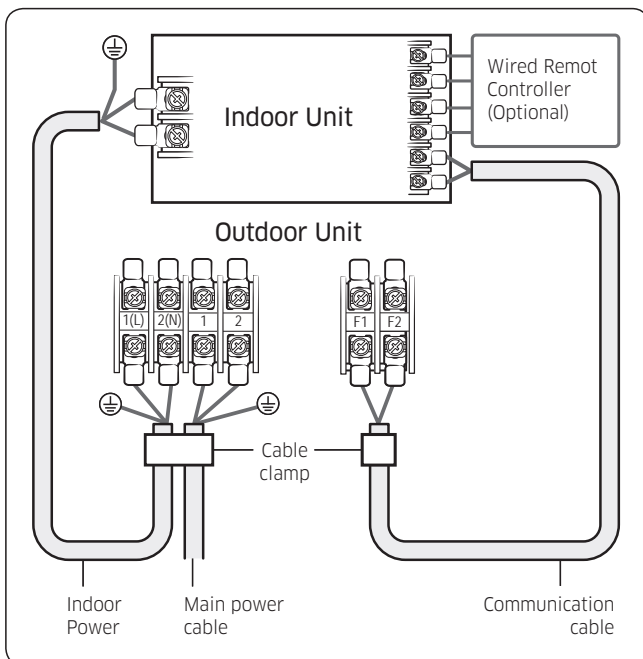
⚠ CAUTION

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

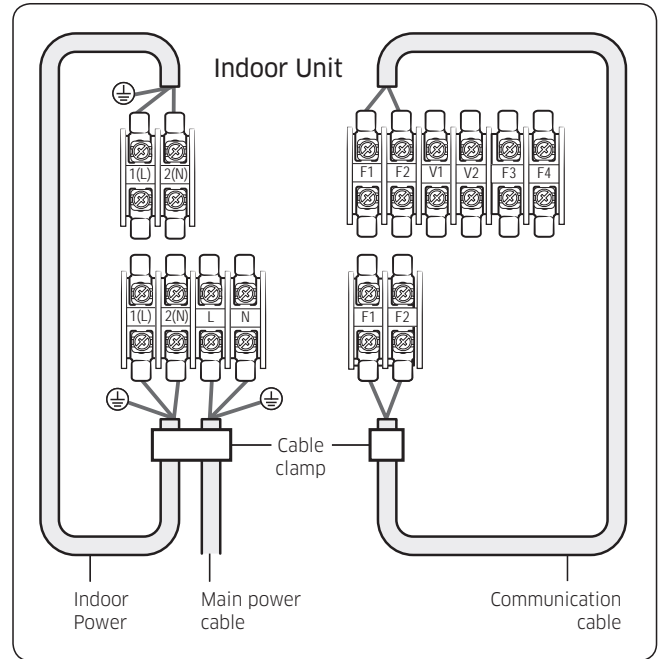
The indoor unit is powered through the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), in accordance with the requirements specified in the standard EN 60335-2-40.

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

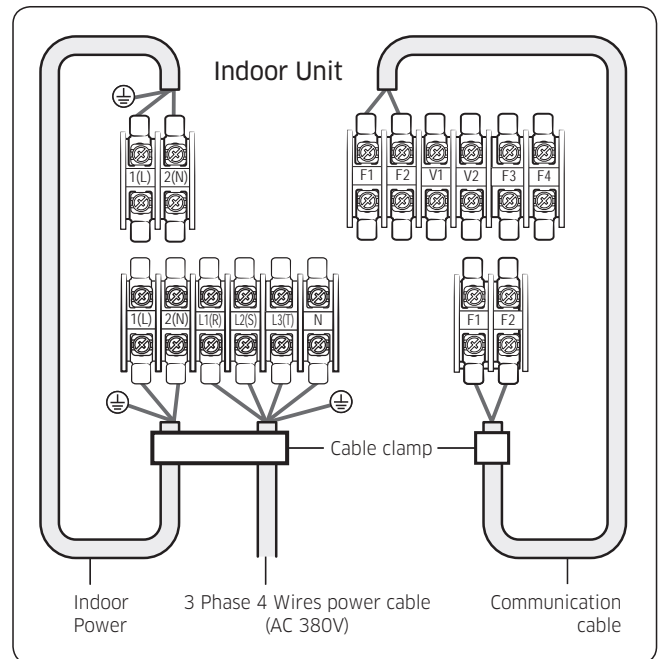
1 phase (**052/071**)



1 phase (**100/120/140**)



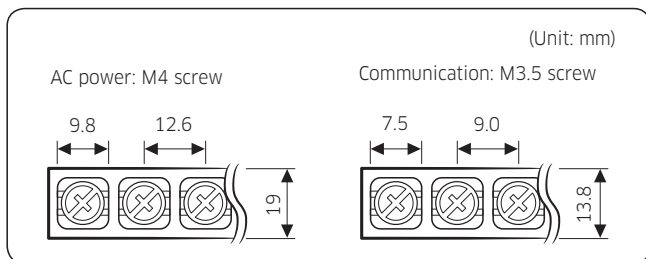
3 phase (**100/120/140**)



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Installation

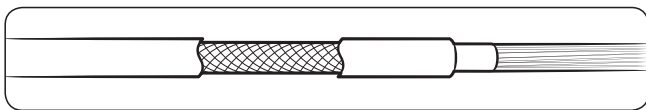
Indoor power supply		
Power supply	Max/Min(V)	Indoor power cable
220 to 240V, 50 Hz	±10%	0.75 mm ² , 3 wires
Communication cable		
0.75 mm ² , 2 wires		



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

1 N·m = 10 kgf·cm

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



⚠ CAUTION

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

8. Outdoor Unit

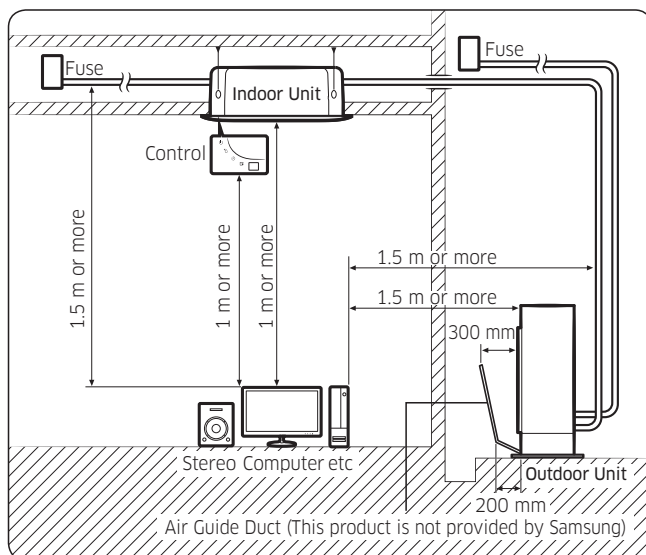
Installation location requirements

- The outdoor unit shall be installed in an open space that is always ventilated.
- The local gas regulations shall be observed.
- For installation inside a building (this applies either to indoor or outdoor units installed inside) a minimum room floor area of space conditioned is mandatory according to EN378-1:2017 (see the reference table into the indoor unit installation manual).
- To handle, purge, and dispose the refrigerant, or break into the refrigerant circuit, the worker should have a certificate from an industry-accredited authority.
- Do not install the air conditioner in following areas.
 - The place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
 - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet. The copper pipe or connection pipe may corrode and refrigerant may leak.
 - The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
 - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust.
 - The place where animals may urinate on the product. Ammonia may be generated.
 - The place where thinner or gasoline is handled. Gas may leak and it may cause fire.
 - The place where is close to heat sources
- Do not use the indoor unit for preservation of food items, plants, equipment, and art works. This may cause deterioration of their quality.
- Do not install the indoor unit if it has any drainage problem.
- 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.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

- Install the unit in a well-ventilated location away from direct sunlight or strong winds.
- Install the unit in a location that would not obstruct any passageways or thoroughfares.
- Install the unit in a location that would not inconvenience or disturb your neighbors, as they could be affected by the noise or the airflow coming from the unit.
- Install the unit in a location where the pipes and the cables can be easily connected to the indoor unit.
- Install the unit on a flat, stable surface that can withstand the weight of the unit. Otherwise, the unit can generate noise and vibration during operation.
- Install the unit so that the air flow is directed towards the open area.
- Maintain sufficient clearance around the outdoor unit, especially from a radio, computer, stereo system, etc.

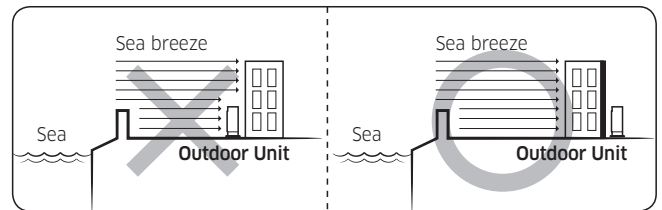


- Install the unit at a height where its base can be firmly fixed in place.
- Make sure that the water dripping from the drain hose runs away correctly and safely.

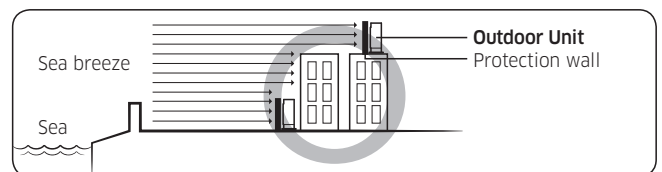
⚠ CAUTION

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

- When installing the outdoor unit at the seaside, make sure that it is not directly exposed to sea breeze. If you cannot find an adequate place free from direct sea breeze, construct a protection wall or a protective fence.
 - Install the outdoor unit in a place (such as near buildings etc.) where it can be prevented from sea breeze. Failure to do so may cause a damage to the outdoor unit.



- If you cannot avoid installing the outdoor unit at the seaside, construct a protection wall around to block the sea breeze.
- Construct a protection wall with a solid material such as concrete to block the sea breeze. Make sure that the height and the width of the wall are 1.5 times larger than the size of the outdoor unit. Also, secure a space larger than 700 mm between the protection wall and the outdoor unit for exhausted air to ventilate.



⚠ CAUTION

- Depending on the condition of power supply, unstable power or voltage may cause malfunction of the parts or control system. (At the ship or places using power supply from electric generator...etc)
- 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.)

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

- 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.

Outdoor unit dimensions

(Unit: mm)

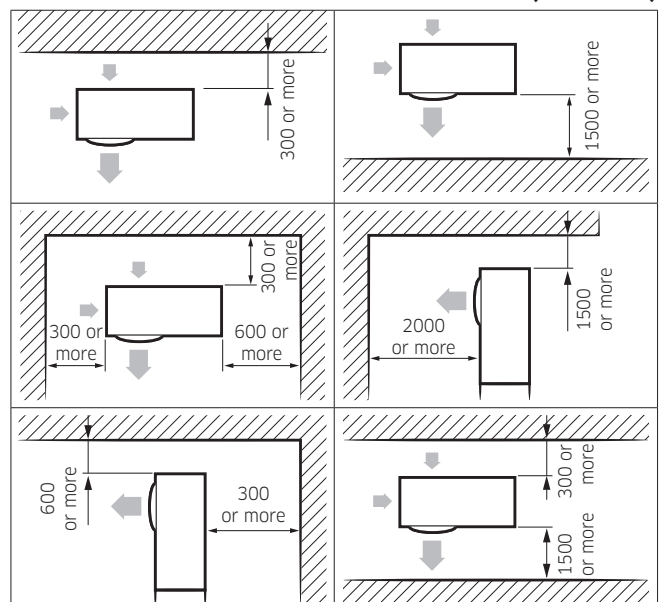
A Type AC026RXADKG/AC035RXADKG
B Type AC052RXADKG
C Type AC071RXADKG

D Type AC100RXADKG/AC100RXADNG/AC120RXADKG/AC120RXADNG
E Type AC140RXADKG/AC140RXADNG

Minimum clearances for the outdoor unit

When installing 1 outdoor unit

(Unit: mm)

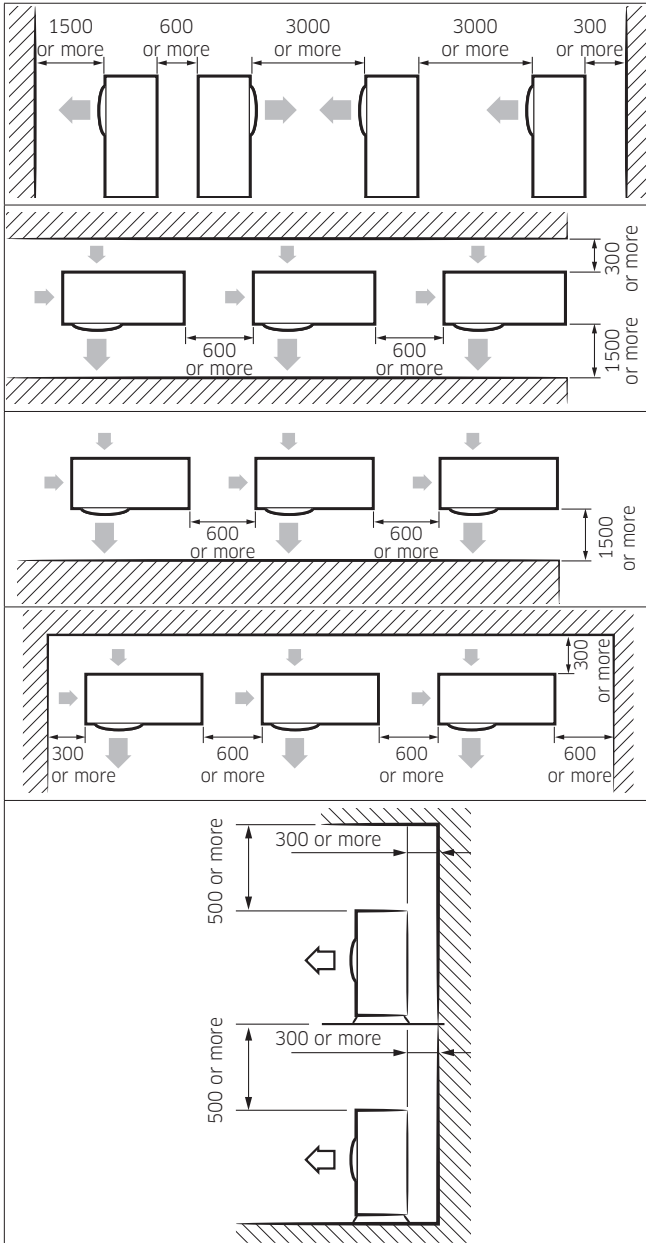


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Installation

When installing more than 1 outdoor unit

(Unit: mm)

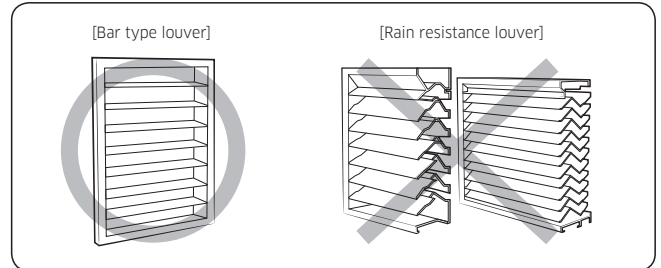


CAUTION

- The outdoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the outdoor unit must be reachable and removable under safe conditions for people and the unit.

WARNING

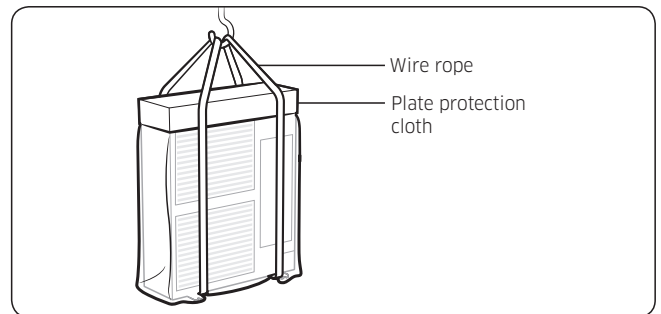
- Should adopt bar type louver. Don't use a type of rain resistance louver.



- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria : greater than 80%

Moving the outdoor unit with wire rope

- Before carrying the outdoor unit, fasten two wire ropes of 8 m or longer, as shown in the figure.
- To prevent damages or scratches effectively, insert a piece of cloth between the outdoor unit and the ropes.
- Move the outdoor unit.



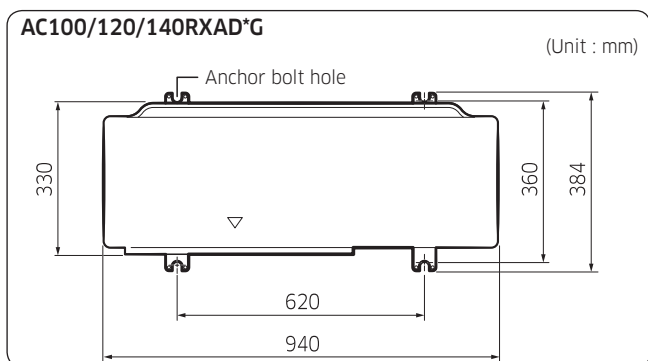
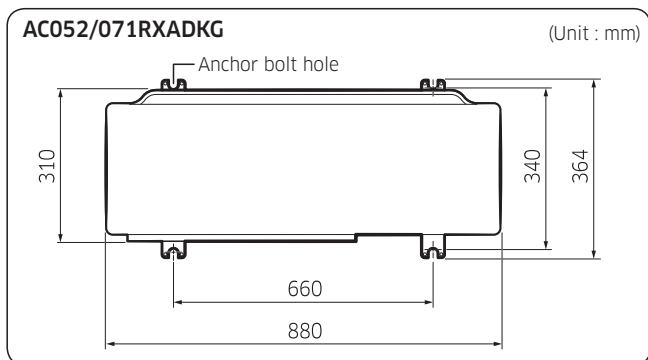
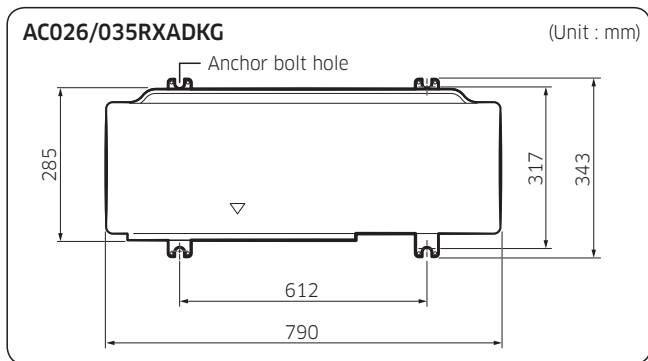
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Fixing the outdoor unit in place

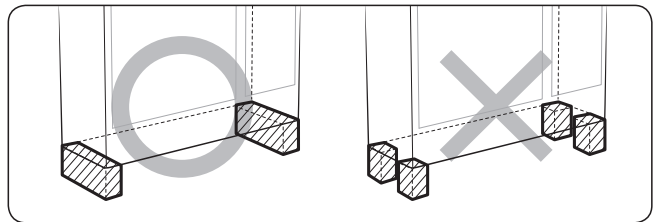
Install the outdoor unit on a rigid and stable base to prevent disturbance from any noise caused by vibration. When installing the unit at a height or in a location exposed to strong winds, fix the unit securely to a support (i.e., a wall or a ground).

Fix the outdoor unit with anchor bolts. Make sure that the anchor bolts are 20 mm or higher from the base surface.



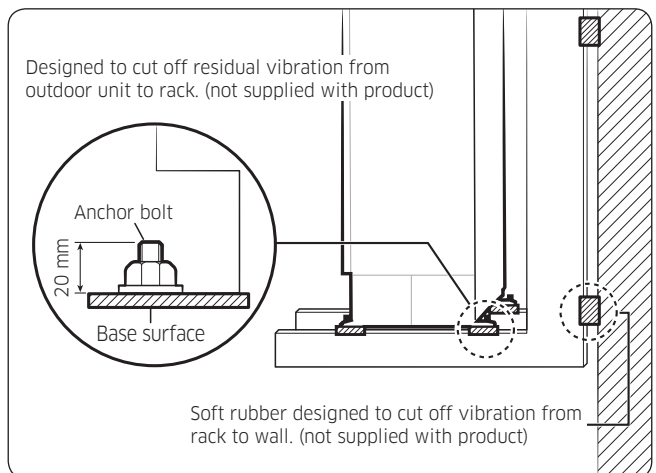
⚠ CAUTION

- Install a drain outlet at the lowest end around the base for outdoor unit drainage
- When installing the outdoor unit on the roof, waterproof the unit and check the ceiling strength.



- Make sure that the wall can support the weights of the rack and the outdoor unit.
- Install the rack close to the column as much as possible.

Optional: Fixing the outdoor unit to a wall with a rack



- Install a proper grommet in order to reduce noise and residual vibration transferred by the outdoor unit towards the wall.

⚠ CAUTION

- When installing an air guide duct, be sure to check the following:
 - The screws do not damage the copper pipe.
 - The air guide duct is fixed firmly on the guard fan.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

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 electrical cables and then the refrigerant connections.
- Connect the air conditioner to the earthing system before making the electrical connections.

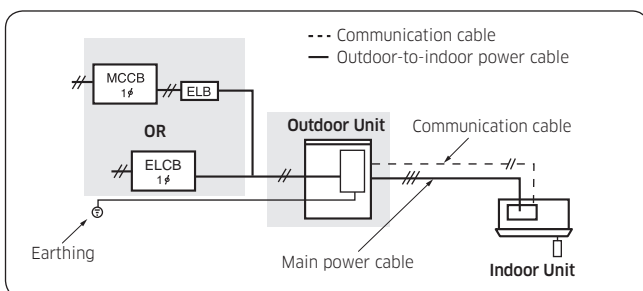
📄 NOTE

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

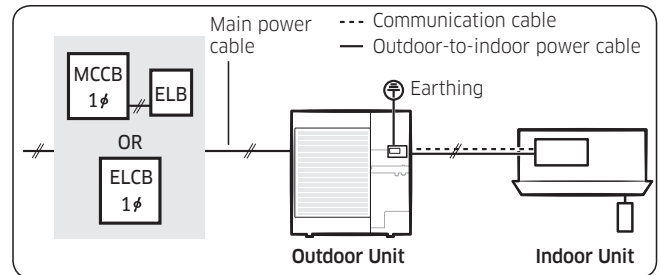
Air conditioning system examples

When using earth leakage circuit breaker (ELCB) for a single phase

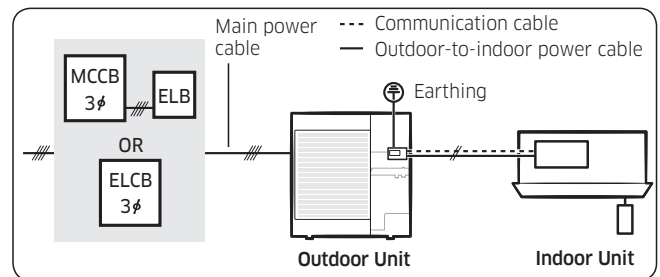
AC052/071RXADKG



AC100/120/140RXAD*G



When using earth leakage circuit breaker (ELCB) for a 3-phase, 4-wire system (3P4W)



⚠ CAUTION

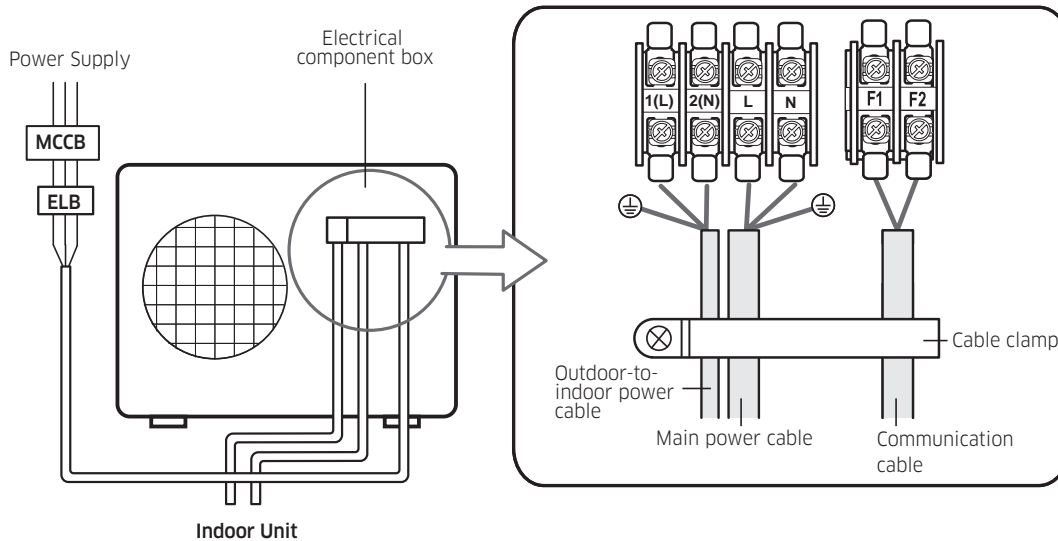
- If the outdoor unit is installed in a location vulnerable to an electric leak or submergence, make sure to install an ELCB.
- For the product that uses the R-32 refrigerant, be cautious not to generate a spark by keeping the following requirements:
 - Do not remove the fuses with power on.
 - Do not disconnect the power plug from the wall outlet with power on.
 - It is recommended to locate the outlet in a high position. Place the cords so that they are not tangled.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the main power cable

When using ELB for 1 phase



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

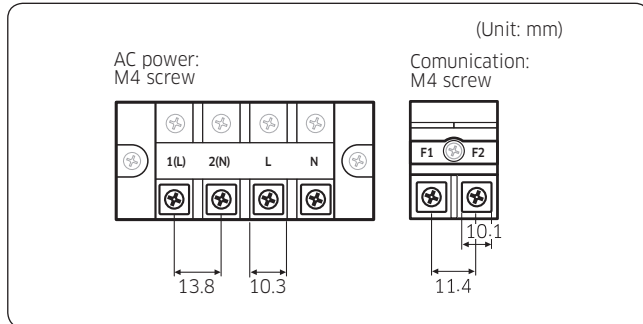
CAUTION

- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2% of supply rating.
If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units within ducts. (with appropriate IP rating and material selection for your application)
- Ensure that main supply connection is made through a switch that disconnects all poles, with contact gap of a least 3 mm.
- Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.
- Keep distances of 50 mm or more between power cable and communication cable.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Main power 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.

Type	Model		Outdoor unit				Input current (Amperes)				Power supply	
	Indoor unit	Outdoor unit	Rated	Voltage range		Outdoor unit		Indoor unit	Total	MCA	MFA	
			Hz	Volts	Min.	Max.	Cooling					Heating
A	AC026RN1DKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
	AC026RNNDKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
	AC026RNLDKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
	AC026BNLDKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
	AC026RNADKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.6	11.6	11.6	12.8
	AC026TNXDKG	AC026RXADKG	50	220 to 240	198	264	10.0	10.0	1.2	11.2	11.2	12.5
	AC035RN1DKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
	AC035RNNDKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.0	11.0	11.0	12.5
	AC035RNMDKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	2.5	12.5	12.5	13.8
	AC035RNLDKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
	AC035BNLDKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.7	11.7	11.7	12.9
	AC035RNADKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.6	11.6	11.6	12.8
AC035TNXDKG	AC035RXADKG	50	220 to 240	198	264	10.0	10.0	1.2	11.2	11.2	12.5	
B	AC052RN4DKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC052RNNDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC052RNMDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
	AC052RNLDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6
	AC052BNLDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6
	AC052RNCDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC052RNADKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.6	18.1	18.1	20.6
	AC052TNXDKG	AC052RXADKG	50	220 to 240	198	264	16.5	16.5	1.2	17.7	17.7	20.6
C	AC071RN4DKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC071RNNDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC071RN4PKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.5	18.0	18.0	20.6
	AC071RNMDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
	AC071RNLDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6
	AC071BNLDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.7	18.2	18.2	20.6
	AC071RNCDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.0	17.5	17.5	20.6
	AC071RNADKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.6	18.1	18.1	20.6
AC071TNXDKG	AC071RXADKG	50	220 to 240	198	264	16.5	16.5	1.2	17.7	17.7	20.6	

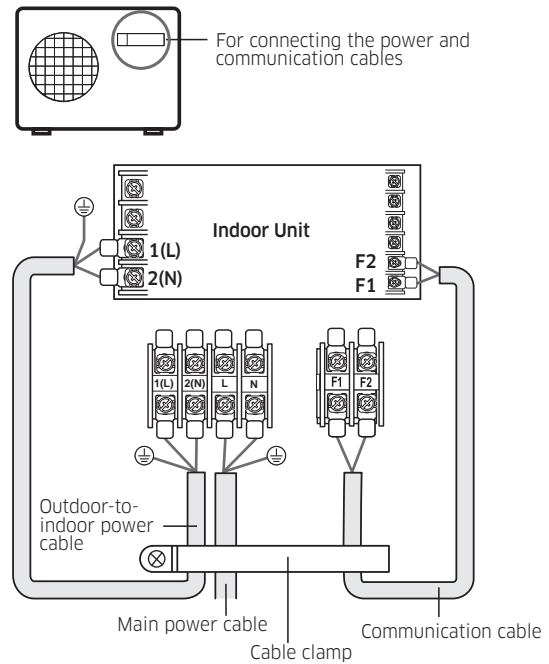
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

NOTE

- 1 Voltage range
 - Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits
- 2 Maximum allowable voltage variation between phases is 2%.
- 3 Wire size & type must comply with the applicable local and national code.
 - Wire size: Based on the value of MCA.
 - Wire type: 60245 IEC57(IEC) or H05RN-F(CENELEC) grade or more.
- 4 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).
- 5 MCA represents maximum input current.
 - MFA represents capacity which may accept MCA
 - Abbreviations
MCA: Min. Circuit Amps. (A)
MFA: Max. Fuse Amps. (A)

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



NOTE

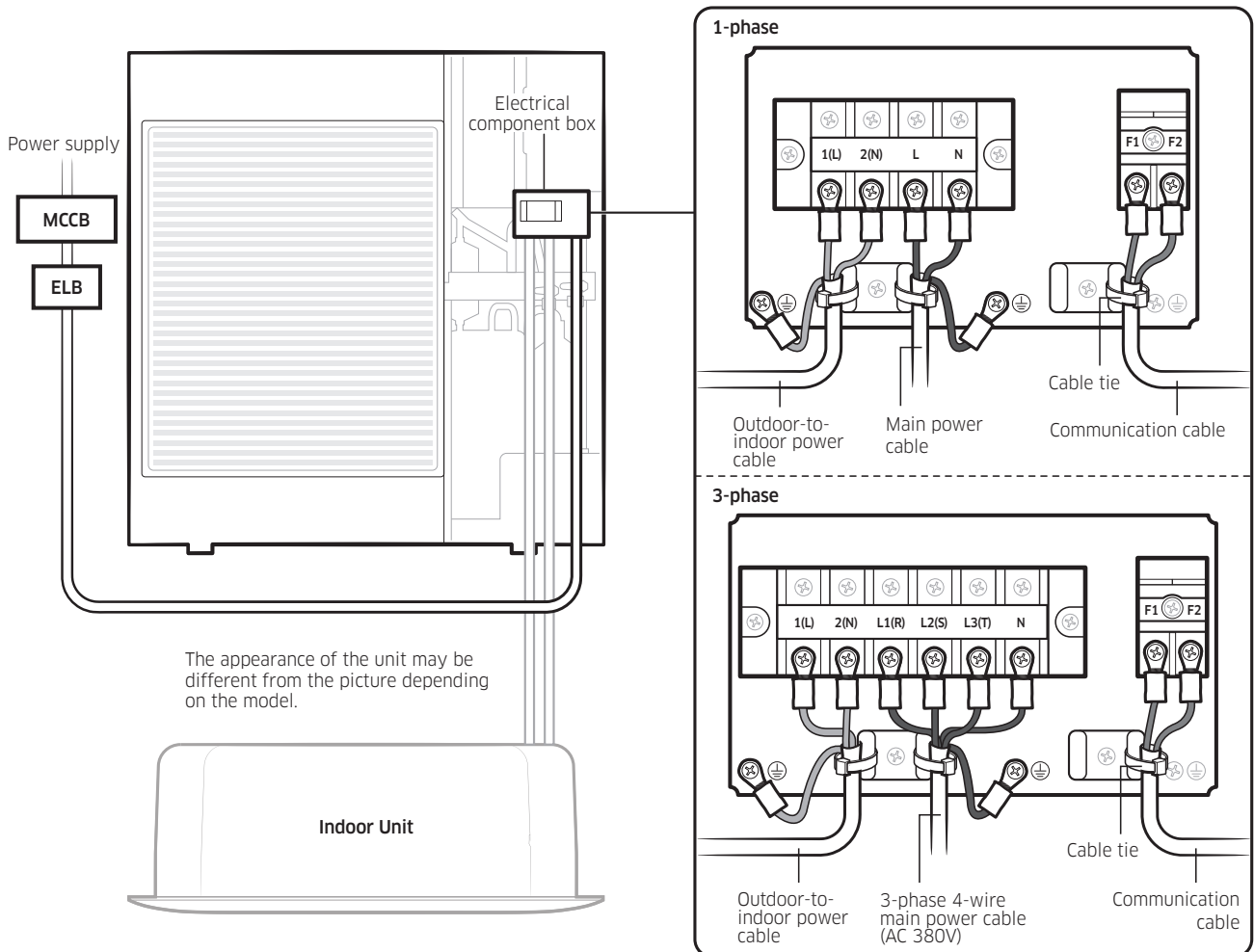
- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.
- Ground wire for the indoor unit and outdoor unit connection cable must be clamped to a soft copper tin-plated eyelet terminal with M4 screw hole (NOT SUPPLIED WITH UNIT ACCESSORIES).

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the main power cable

When using ELB for 1 phase and 3 phase



⚠ CAUTION

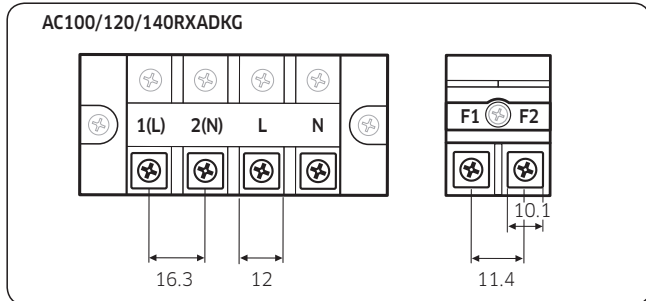
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 2% of supply rating. If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 4% of supply rating, 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.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

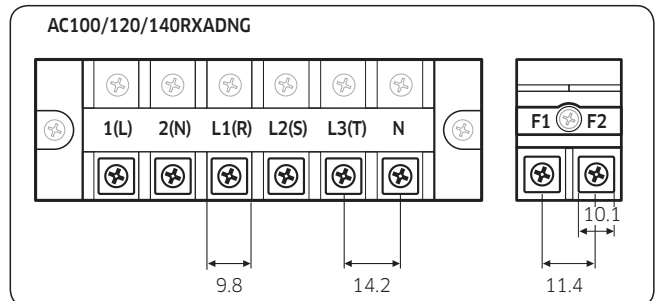
Installation

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.

Single phase

Model		Outdoor unit				Input current (A)				Power supply					
Indoor unit	Outdoor unit	Hz	Voltage range (V)			Outdoor unit		Indoor unit	Total	MCA (A)	MFA (A)				
			Rated	Min.	Max.	Cooling	Heating								
AC100RN4DKG	AC100RXADKG	50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0				
AC100RN4PKG								1.5	25.5	25.5	30.0				
AC100RNMDKG								2.5	26.5	26.5	30.0				
AC100RNCDKG								2.5	26.5	26.5	30.0				
AC100RNTDKG								1.6	25.6	25.6	30.0				
AC120RN4DKG	AC120RXADKG					50	220 to 240	198	264	24.0	24.0	1.0	25.0	25.0	30.0
AC120RN4PKG												1.5	25.5	25.5	30.0
AC120RNMDKG												2.5	26.5	26.5	30.0
AC120RNCDKG												2.5	26.5	26.5	30.0
AC140RN4DKG	AC140RXADKG											50	220 to 240	198	264
AC140RN4PKG		1.5	33.5	33.5	40.0										
AC140RNMDKG		2.5	34.5	34.5	40.0										
AC140RNCDKG		2.5	34.5	34.5	40.0										

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

3-phase

Model		Outdoor unit				Input current (A)				Power supply	
Indoor unit	Outdoor unit	Hz	Voltage range (V)			Outdoor unit		Indoor unit	Total	MCA (A)	MFA (A)
			Rated	Min.	Max.	Cooling	Heating				
AC100RN4DKG	AC100RXADNG	50	380 to 415	342	456.5	16.1	16.1	1.0	17.1	17.1	17.1
AC100RN4PKG								1.5	17.6	17.6	17.6
AC100RNMDKG								2.5	18.6	18.6	18.6
AC100RNCDKG								2.5	18.6	18.6	18.6
AC100RNTDKG								1.6	17.7	17.7	17.7
AC120RN4DKG	AC120RXADNG							1.0	17.1	17.1	17.1
AC120RN4PKG								1.5	17.6	17.6	17.6
AC120RNMDKG								2.5	18.6	18.6	18.6
AC120RNCDKG								2.5	18.6	18.6	18.6
AC140RN4DKG	AC140RXADNG							1.0	17.1	17.1	17.1
AC140RN4PKG								1.5	17.6	17.6	17.6
AC140RNMDKG								2.5	18.6	18.6	18.6
AC140RNCDKG								2.5	18.6	18.6	18.6

NOTE

1 Voltage range

- Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

2 Maximum allowable voltage variation between phases is 2%.

3 Wire size & type must comply with the applicable local and national code.

- Wire size: Based on the value of MCA.
- Wire type: 60245 IEC57(IEC) or H05RN-F(CENELEC) grade or more.

4 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

5 MCA represents maximum input current.

- MFA represents capacity which may accept MCA
- Abbreviations
MCA: Min. Circuit Amps. (A)
MFA: Max. Fuse Amps. (A)

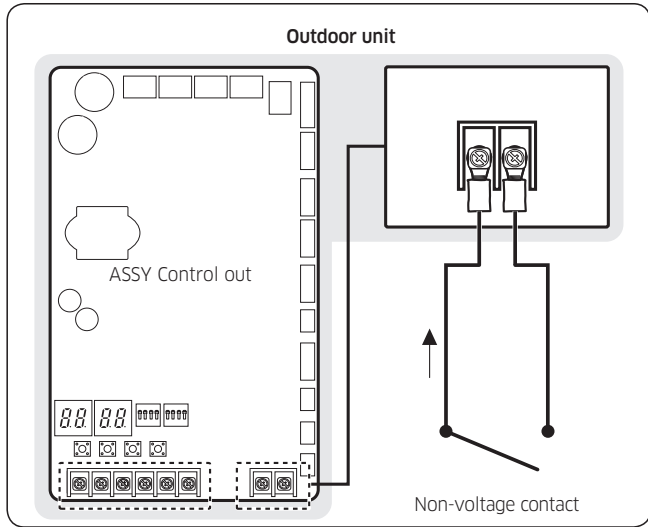
- 6 This equipment complies with IEC 61000-3-12 provided that the short-circuit power S_{sc} is greater than or equal to $S_{sc} (*2)$ at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power S_{sc} greater than or equal to $S_{sc} (*2)$.

Model	S_{sc} [MVA]
AC100RXADKG	1.4
AC100RXADNG	2.5
AC120RXADKG	1.9
AC120RXADNG	2.7
AC140RXADKG	1.9
AC140RXADNG	2.5

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

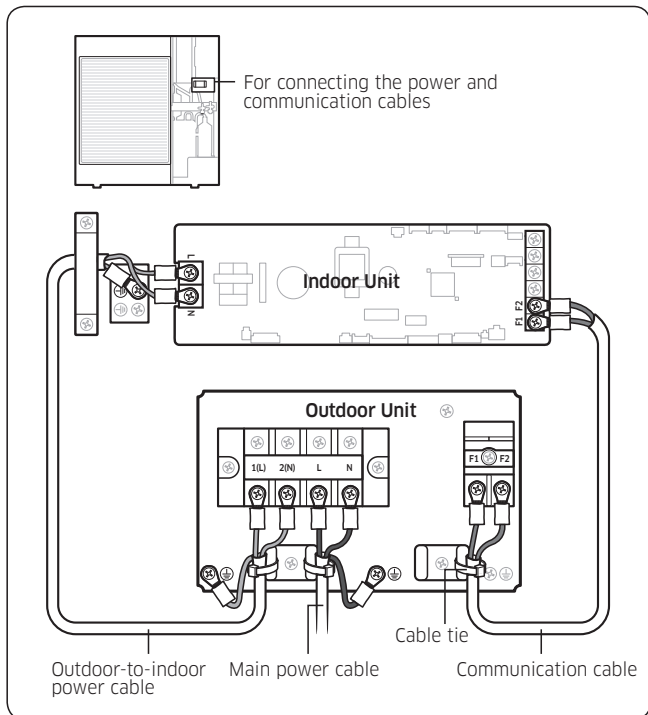
Installation

Silence mode controller wiring diagram

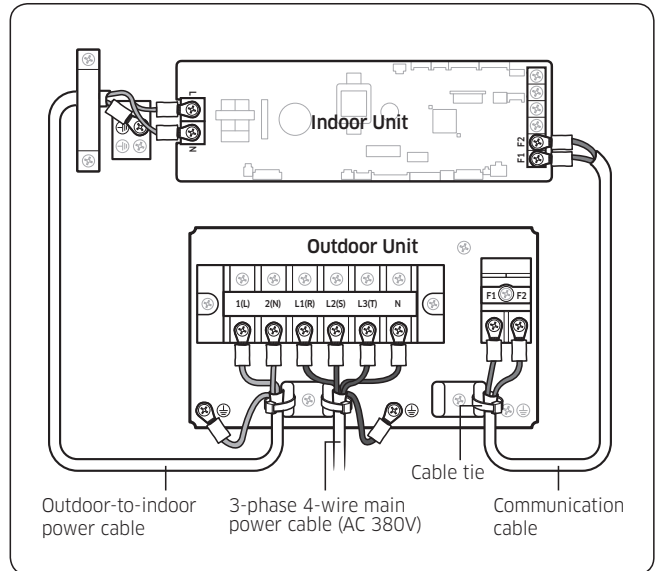


Connecting the outdoor-to-indoor power cable and the communication cable

1-phase



3-phase

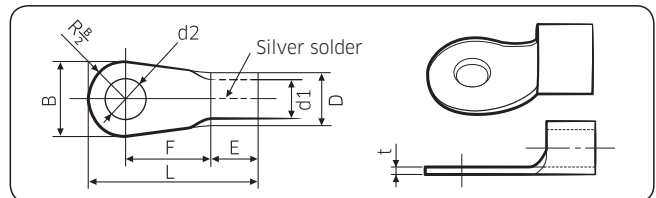


NOTE

- Lay the electrical wiring so that the front cover does not rise up when doing wiring work and attach the front cover securely.
- Ground wire for the indoor unit and outdoor unit connection cable must be clamped to a soft copper tin-plated eyelet terminal with M4 screw hole (NOT SUPPLIED WITH UNIT ACCESSORIES).

Outdoor-to-indoor power terminal specifications

- Connect the cables to the terminal board using the compressed ring terminal.
- Cover a solderless ring terminal and a connector part of the power cable and then connect it.



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Nominal dimensions for cable (mm ²)	Nominal dimensions for screw (mm)	B		D		d1		E (mm)	F (mm)	L (mm)	d2		t (mm)
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)				Standard dimension (mm)	Allowance (mm)	
4/6	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9
	8	15							9	28.5	8.4	+0.4 0	
10	8	15	±0.2	7.1	+0.3 -0.2	4.5	±0.2	7.9	9	30	8.4	+0.4 0	1.15
16	8	16	±0.2	9	+0.3 -0.2	5.8	±0.2	9.5	13	33	8.4	+0.4 0	1.45
25	8	12	±0.3	11.5	+0.5 -0.2	7.7	±0.2	11	15	34	8.4	+0.4 0	1.7
	8	16.5							13		8.4		
35	8	16	±0.3	13.3	+0.5 -0.2	9.4	±0.2	12.5	13	38	8.4	+0.4 0	1.8
	8	22							13	43	8.4		
50	8	22	±0.3	13.5	+0.5 -0.2	11.4	±0.3	17.5	14	50	8.4	+0.4 0	1.8
70	8	24	±0.4	17.5	+0.5 -0.4	13.3	±0.4	18.5	20	51	8.4	+0.4 0	2.0

- Connect the rated cables only.
- Connect using a driver which is able to apply the rated torque to the screws.
- If the terminal is loose, fire may occur caused by arc. If the terminal is connected too firmly, the terminal may be damaged.

Tightening torque (kgf • cm)	
M4	12.0 to 18.0
M5	20.0 to 30.0

- 1N · m = 10 kgf · cm

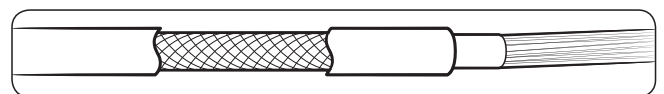
⚠ CAUTION

- When connecting cables, you can connect the cables to the electrical part or connect them through the holes below depending on the spot.
- Connect the communication cable between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.
- Remove all burrs at the edge of the knock-out hole and secure the cable to the outdoor knock-out using lining and bushing with an electrical insulation such as rubber and so on.
- Must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- When the cables are connected through the hole, remove the Plate bottom.

Outdoor-to-indoor power and communication cables specifications

Indoor power supply		
Power supply	Max/Min (V)	Indoor power cable
1Φ, 220-240V, 50 Hz	±10%	1.5 mm ² ↑, 3 wires
Communication cable		
0.75 to 1.5 mm ² , 2 wires		

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



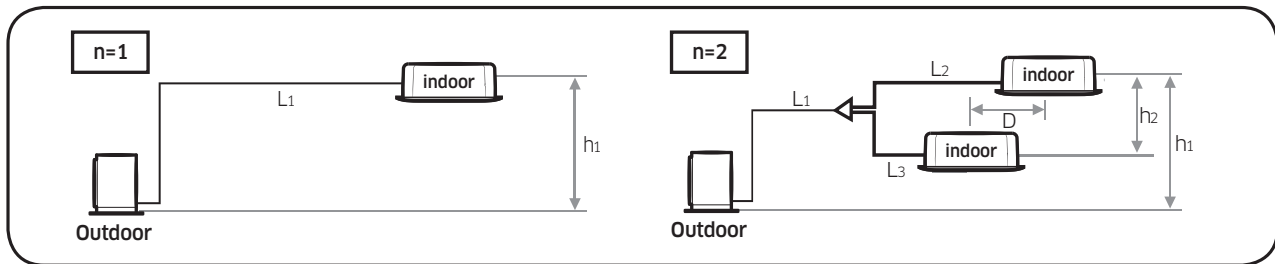
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the refrigerant pipe

Items	Maximum allowable length			
	Single installation			DPM installation
Applicable outdoor unit models	AC026RXADKG AC035RXADKG	AC052RXADKG	AC071RXADKG	AC071RXADKG
Total pipe length ($L_1+L_2+L_3$)	-	-	-	50m
Main pipe (L_1)	20m	30m	50m	30m
Max. distance among indoor units (D)	-	-	-	10m
Max. length after branch	-	-	-	15m
Max. height difference between outdoor and indoor units (h_1)	15m	20m	30m	± 30 m
Max. height difference among indoor units (h_2)	-	-	-	± 0.5 m
Max Pipe length difference among indoor units after branch (L_2-L_3)	-	-	-	± 5 m

※ “n” means the number of indoor unit connection of DPM.



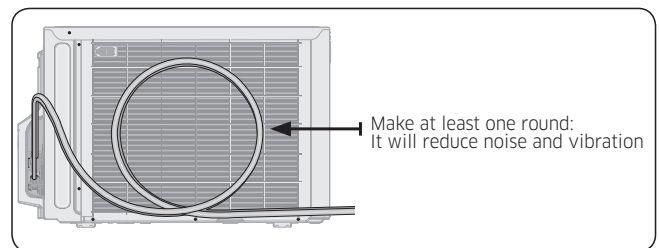
※ Use a joint kit that is only for DPM.

- Temper grade and minimum thickness of the refrigerant pipe

Outer diameter [mm]	Minimum thickness [mm]	Temper grade
$\varnothing 6.35$	0.7	C1220T-O
$\varnothing 9.52$	0.7	
$\varnothing 12.70$	0.8	
$\varnothing 15.88$	1.0	
$\varnothing 15.88$	0.8	C1220T-1/2H OR C1220T-H
$\varnothing 19.05$	0.9	
$\varnothing 22.23$	0.9	

⚠ CAUTION

- Be sure to use C1220T-1/2H (Semi-hard) pipe for more than $\varnothing 19.05$ mm. If you use C1220T-O (Soft) pipe for $\varnothing 19.05$ mm, the pipe may be broken, which can result in an injury.



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

⚠ CAUTION

- After connecting the pipes with knock-out treatment, plug the space around the pipes.
- After connecting the pipes, proceed exactly as directed in the guide to prevent interference with the internal parts.
- 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.

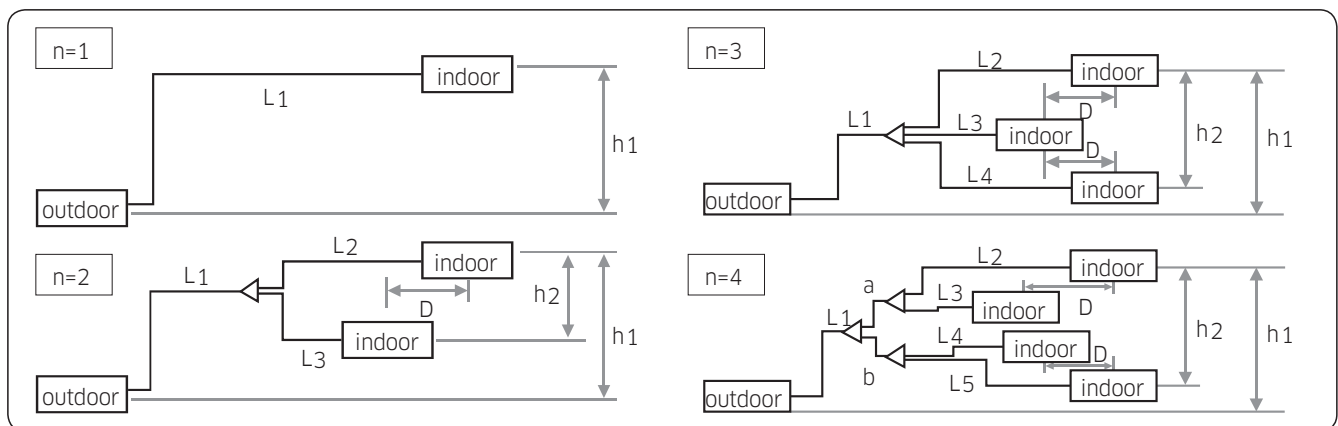
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Connecting the refrigerant pipe

Items	Maximum allowable length			
	Single Installation		DPM Installation	
Applicable outdoor unit models	AC100RXAD*G AC120RXAD*G	AC140RXAD*G	AC100RXAD*G AC120RXAD*G	AC140RXAD*G
Total pipe length (L1+...+Ln+1+a+b)	-	-	50 m	75 m
Main pipe (L1)	50 m	75 m	30 m	50 m
Max. distance among indoor units (D)	-	-	10 m	10 m
Max. length after branch	-	-	15 m	15 m
Max. height difference between outdoor and indoor units (h1)	30 m	30 m	30 m	30 m
Max. height difference among indoor units(h2)	-	-	0.5 m	0.5 m
Max Pipe length difference among indoor units after branch [L2-L3 or L2-L4 or L2-L5 or a-b or (a+L2)-(b+L4) or (a+L3)-(b+L5)]	-	-	5 m	5 m

- "n" means the number of indoor unit connection of DPM.



- Use a joint kit that is only for DPM.
- Temper grade and minimum thickness of the refrigerant pipe

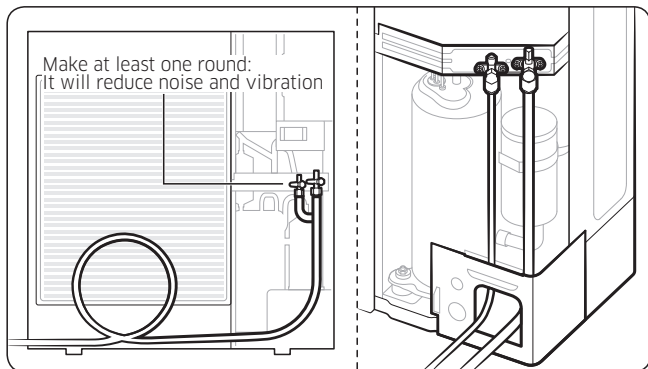
Outer diameter [mm]	Minimum thickness [mm]	Temper grade
ø6.35	0.7	C1220T-O
ø9.52	0.7	
ø12.70	0.8	
ø15.88	1.0	
ø15.88	0.8	C1220T-1/2H OR C1220T-H
ø19.05	0.9	
ø22.23	0.9	

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

⚠ CAUTION

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



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

⚠ CAUTION

- After connecting the pipes with knock-out treatment, plug the space around the pipes.
- After connecting the pipes, proceed exactly as directed in the guide to prevent interference with the internal parts.
- 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.

Adding refrigerant (R-32)

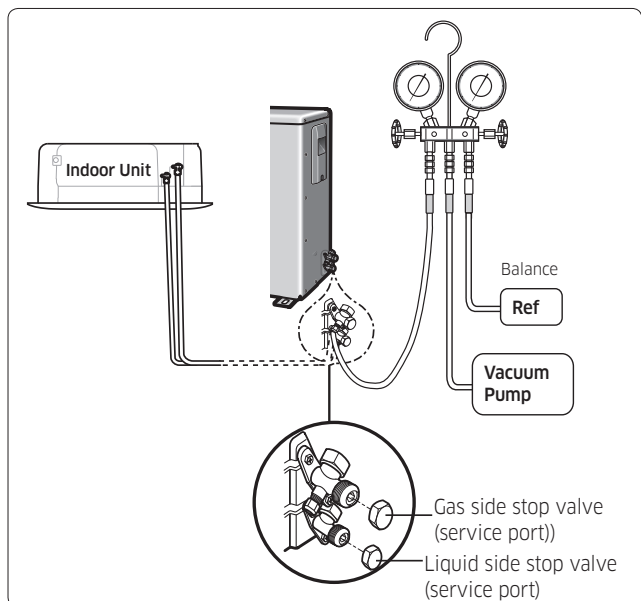
Precautions on adding the R-32 refrigerant

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 373.

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



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Important information: regulation regarding the refrigerant used

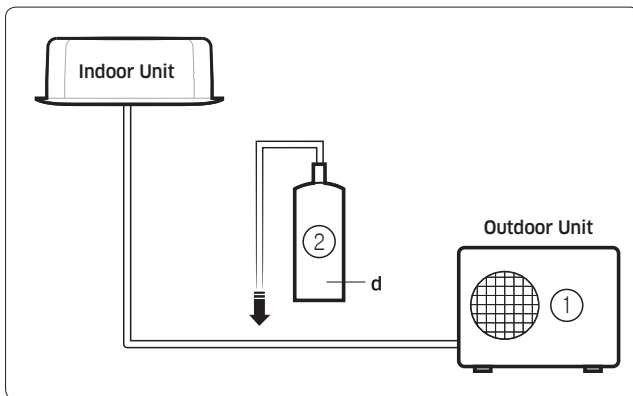
This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

⚠ CAUTION

- Inform user if the system contains 5 tCO₂e or more of fluorinated greenhouse gases. In this case, it must be checked for leakage at least once every 12 months, according to regulation No. 517/2014. This activity must be covered by qualified personnel only. In the case of the situation above, the installer (or authorized person with responsibility for final check) must provide a maintenance book, with all the information recorded, according to REGULATION (EU) No. 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

Please fill in the following with indelible ink on the refrigerant charge label supplied with this product and on this manual.

- ①: The factory refrigerant charge of the product.
- ②: The additional refrigerant amount charged in the field.
- ① + ②: The total refrigerant charge.



Unit	kg	tCO ₂ e
①, a		
②, b		
① + ②, c		

Refrigerant type	GWP value
R-32	675

- GWP: Global Warming Potential
- Calculating tCO₂e : kg x GWP/1000

📄 NOTE

- Factory refrigerant charge of the product: see unit name plate
- Additional refrigerant amount charged in the field(Refer to the above information for the quantity of refrigerant replenishment.)
- Total refrigerant charge
- Refrigerant cylinder and manifold for charging

⚠ CAUTION

- The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).
- Make sure that the total refrigerant charge does not exceed (A), the maximum refrigerant charge, which is calculated in the following formula: Maximum refrigerant charge (A) = factory refrigerant charge (B) + maximum additional refrigerant charge due to piping extension (C).

(Unit: g)

Model	A	B	C
AC026RXADKG	900	900	0
AC035RXADKG	900	900	0
AC052RXADKG	1450	1200	250
AC071RXADKG	2600	1700	900
AC100RXAD*G	2700	1000	3700
AC120RXAD*G			
AC140RXAD*G	2900	2250	5150

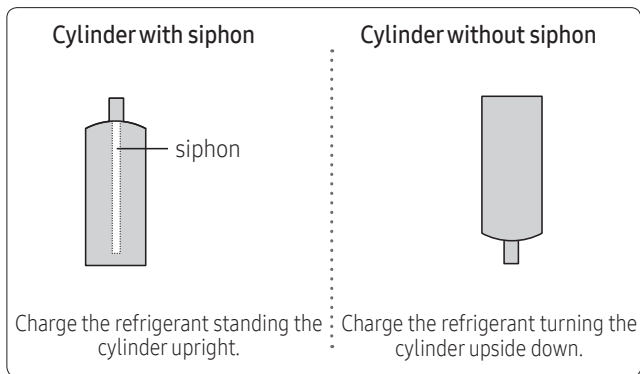
※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

Installation

Charging the refrigerant under conditions of liquid by using a liquid pipe

R-32 is a mixed type of refrigerant. It is necessary for recharging under conditions of liquid. When recharging refrigerant from the refrigerant cylinder to the equipment, follow the instructions below.

- Before recharging, check whether the cylinder has a siphon or not. There are two ways to recharge the refrigerant.



NOTE

- If R-32 refrigerant is charged with gas, the composition of the charged refrigerant changes and the characteristics of the equipment vary.
- During the measuring operation of refrigerant quantity added use an electronic balance. If cylinder doesn't have siphon, upset it.

Calculating the quantity of refrigerant to add

The quantity of additional refrigerant is variable according to the installation situation. Thus, make sure the outdoor unit situation before adding refrigerant. This operation can only be performed by a qualified refrigeration specialist.

When installing the outdoor unit only

Model	Interconnection pipe length (m)						
	0 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50
AC026RXADKG AC035RXADKG	0	0	0	0			
AC052RXADKG	0	0	+ 15 g/m over 10m				
AC071RXADKG			0	+ 25 g/m over 15m			

Model	Interconnection pipe length (m)					
	0~30	30~40	40~50	50~60	60~70	70~75
AC100RXAD*G AC120RXAD*G	0	+50 g/m over 30 m		-	-	-
AC140RXAD*G	0	+50 g/m over 30 m				

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Installation

DPM installation outdoor unit

Model	Diameter of L ₁ , a & b pipe	Installation condition	Amount of additional refrigerant charging
AC071RXADKG	Φ 6.35	$L_1 + L_2 + L_3$	$(L_1-5) \times 20[g] + (L_2+L_3) \times 20[g]$
AC100RXAD*G AC120RXAD*G	Ø9.52	$L_1 + \dots + L_{n+1} \leq 50 \text{ m}$	$(L_1+a+b-5) \times 40 [g] + (L_2+\dots+L_{n+1}) \times 30 [g]$ If $(L_1+a+b) < 5 \text{ m}$, $(L_2+\dots+L_{n+1}) \times 30 [g]$
AC140RXAD*G	Ø9.52	$L_1 + \dots + L_{n+1} \leq 75 \text{ m}$	$(L_1+a+b-5) \times 40 [g] + (L_2+\dots+L_{n+1}) \times 30 [g]$ If $(L_1+a+b) < 5 \text{ m}$, $(L_2+\dots+L_{n+1}) \times 30 [g]$

Optional: Installing DPM

DPM allowable Outdoor and indoor unit models

DPM allowable Outdoor and indoor unit models	
Outdoor unit models	2 indoor units connection
	Indoor unit
AC071RXADKG	AC035RN1DKG
	AC035RNNDKG
	AC035RNMDKG
	AC035RNLDKG
	AC035BNLDKG
	AC035TNXDKG
	AC035RNADKG

※ Installation of multiple indoor units should consist of units that have the same capacity.

e.g. When you install the AC071RXADKG outdoor unit as DPM combination such as 2 indoor units connection, only the combination on the table is available..

DPM allowable Outdoor and indoor unit models			
Outdoor unit	2 IDUs connection	3 IDUs connection	4 IDUs connection
	Indoor Unit	Indoor Unit	Indoor Unit
AC100RXAD*G	AC052*N*DKG	AC035*N*DKG	-
AC120RXAD*G	-	AC052*N*DKG	AC035*N*DKG
AC140RXAD*G	AC071*N**KG	AC052*N*DKG	AC035*N*DKG

• Installation of multiple indoor units should consist of units that have the same capacity.

e.g. When you install the AC100RXADKG outdoor unit as DPM combination such as 2 or 3 indoor units connection, only the combination of two AC052*N*DKG or three AC035*N*DKG is available.

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Installation

Space requirements for indoor and outdoor units and piping installation

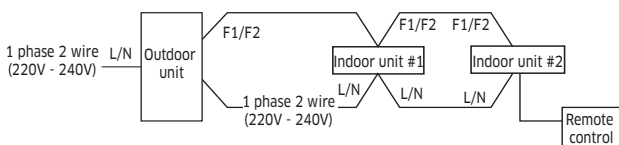
(Refer to page 7~10 installation specification.)

- Two indoor units should be installed in one area which is not divided by a wall.
- The distance between two indoor units should be within a straight-line of 10m.
- After branching, the distance between the piping connected to the two indoor units should be within 5m.
- The height difference between two units should be within 0.5m.
- Use the joint KIT that is only for DPM. (Please refer to the table below)

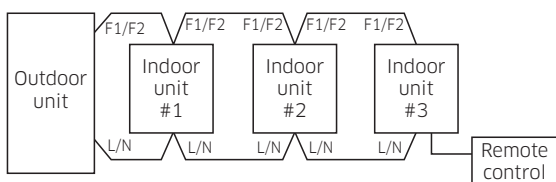
DPM KIT	2-Indoor units connection	3-Indoor units connection	4-Indoor units connection
	MXJ-2D2509K	MXJ-3D2509K	MXJ-4D2509K

Connecting communication line and wired remote controller

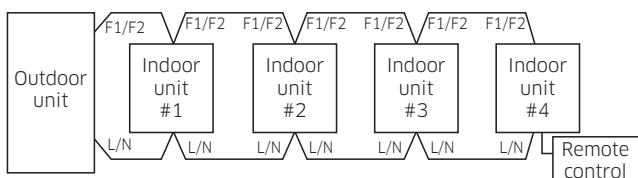
- In case of 2 indoor units connection



- In case of 3 indoor units connection



- In case of 4 indoor units connection



※ The wired remote controller can be used with any of the DPM indoor units.

Operation and specification

- The two, the three, or the four sets of the indoor units with DPM installation which are controlled by wired and wireless remote controller work equally. (All controls such as ON/OFF, cooling/heating/dehumidification/ventilation, high/ medium/low wind.)
- Thermo OFF which stops when indoor temperature reaches set temperature works by the average sensor value of the indoor temperature of the all indoor units.
- When one of the several indoor units has a problem, they protect operation or stop working.

Instruction for installation and operation

- You should install the DPM according to the above installation specification and eliminate the factors that give electrical load to the both indoor units when installing and operating. (Heater / window / front door / ventilation / partition that divides space)
- You should provide sufficient instructions about the operation method and specification features to users and fill in caution phrases on wired remote controller when necessary.

- <The air-conditioners in this area are special type to be controlled simultaneously.>

Set up indoor quantity by key switch(K1, K2)

- Press and hold K1 switch to enter the setting mode on the number of the installed indoor unit : Check "A0" sign on 7-segment
 - Press K2 switch to set the number of the installed indoor unit :
 - Ex) If there are two indoor units, press K2 switch twice, and check "A2" sign on 7-segment. If there are three indoor units, press K2 switch three times, and check "A3" sign on 7-segment. If there are four indoor units, press K2 switch four times, and check "A4" sign on 7-segment.
 - Unable to set more than the allowable indoor unit.
 - Ex) In case of the allowable Indoor unit is two : If you press K2 switch repeatedly, 7-segment is changed in order "A0"→"A1"→"A2"→"A0"→"A1".
 - Press K1 switch to complete setting the number of the installed indoor unit : Check "AA" sign on 7-segment.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

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